Annual Progress Report
Kharif Maize

2016

All India Coordinated Research Project on Maize
ICAR-Indian Institute of Maize Research
PAU Campus, Ludhiana-141 004, India
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Annual Maize Workshop-2016
UAS Bengaluru

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All India Coordinated Research Project on Maize

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Director's Review Report

Review of Research of AICRP on Maize (2016-17)

The second advance estimate released by Govt. of India indicated ever-highest maize production in the history of India during the year (2016-17) amounting 26.15 million tonnes. However, the fourth advance estimates for 2015-16 indicated a slight decline in maize acreage to 8.69 million ha. In last three years, in spite of drought-like conditions, the maize area has increased in Gujarat, Himachal Pradesh, Jharkhand, and west Bengal (Table 1). In addition the maize production has increased in Bihar, Himachal Pradesh, Jammu & Kashmir, Madhya Pradesh, Tamil Nadu and West Bengal. In spite of drought, the maize productivity has been increasing in Bihar, Jammu & Kashmir, Madhya Pradesh, Tamil Nadu, Uttar Pradesh and West Bengal (Table 1). As per the Compound Annual Growth Rate (CAGR) since 2001, the there is increase in area, production and productivity in both *kharif* and *rabi* season, however the growth rate was higher in *rabi* season than *kharif* season.

The monsoon season of the year 2015-16 was marked by a 14 percent below average rainfall, making it the drought-like season. The *rabi* productivity also increased in the states of Bihar, Tamil Nadu and West Bengal. On the other hand, in spite of drought-like situation, the maize productivity during *kharif* season increased in the states of Andhra Pradesh, Haryana, Himachal Pradesh, Jammu & Kashmir, Madhya Pradesh, Pumjab, Tamil Nadu, Uttar Pradesh and West Bengal. This signifies the resilience of the maize system against climatic variability.

Table 1: Maize area, production and yield statistics in Indian states from 2013-14 to 2015-16

State/ UT	Season	Area ('000 ha)			Production ('000 tonnes)			Yield (kg/ha)		
		2013-14	2014-15	2015-16	2013-14	2014-15	2015-16	2013-14	2014-15	2015-16
Andhra Pradesh	*Kharif*	93.6	100.0	75.0	282.2	329.0	276.0	3015	3290	3680
	Rabi	242.1	203.0	158.0	1805.3	1609.0	1138.0	7456	7926	7203
	Total	335.7	303.0	233.0	2087.5	1938.0	1414.0	6218	6396	6069
Arunachal Pradesh	*Kharif*	39.0	38.7	*	55.5	59.3	*	1423	1533	*
	Rabi	8.0	9.4	*	13.5	15.8	*	1681	1684	*
	Total	47.0	48.0	*	69.0	75.0	*	1467	1563	*
Assam	*Kharif*	24.1	28.0	25.0	21.6	93.2	64.0	898	3333	2560
Bihar	*Autumn*	276.6	277.4	280.6	581.6	686.9	735.0	2103	2476	2619
	Rabi	455.8	429.1	421.0	1530.4	1653.6	1662.2	3358	3854	3948
	Total	732.3	706.5	701.7	2112.1	2340.5	2397.2	2884	3313	3416
Chattisgarh	*Kharif*	111.1	122.1	114.5	229.1	230.3	193.8	2062	1886	1693
Gujarat	*Kharif*	333.0	301.0	298.0	422.0	469.0	395.0	1267	1558	1326
	Rabi	128.0	81.0	89.0	259.0	162.0	177.0	2023	2000	1989
	Total	461.0	382.0	387.0	681.0	631.0	572.0	1477	1652	1478
Haryana	*Kharif*	9.0	8.0	6.0	27.0	18.0	17.0	3000	2250	2833
Himachal Pradesh	*Kharif*	292.7	292.6	295.6	652.1	579.0	671.0	2228	1979	2270
Jammu & Kashmir	*Kharif*	298.7	298.9	306.1	530.5	360.0	479.2	1776	1204	1566
Jharkhand	*Autumn*	250.8	263.6	283.9	506.0	466.1	367.3	2017	1768	1294
	Rabi	6.1	6.2	-	11.0	9.5	8.2	1807	1530	1974
	Total	256.9	269.8	288.0	517.0	475.6	375.5	2012	1763	1304

Karnataka	*Kharif*	1246.0	1210.0	1067.0	3578.5	3788.0	2922.0	2872	3131	2739
	Rabi	131.0	127.0	112.0	406.0	426.0	347.0	3099	3354	3098
	Total	1377.0	1337.0	1179.0	3984.5	4214.0	3269.0	2894	3152	2773
Kerala	*Kharif*	0.1	0.1	0.0	0.1	0.1	0.0	2000	833	994
	Total	0.1	0.1	0.1	0.1	0.1	0.1	2000	1000	1000
Madhya Pradesh	*Kharif*	868.0	1132.0	1098.0	1534.0	2128.2	2580.3	1767	1880	2350
Maharashtra	*Kharif*	747.0	801.0	766.0	2133.4	1496.0	1187.0	2856	1868	1550
	Rabi	254.0	276.0	241.0	596.0	706.0	324.0	2346	2558	1344
	Total	1001.0	1077.0	1007.0	2729.4	2202.0	1511.0	2727	2045	1500
Manipur	*Kharif*	26.1	26.2	*	58.6	58.8	*	2246	2243	-
	Total	26.1	26.2	*	58.6	58.8	*	2246	2243	-
Meghalaya	*Kharif*	18.0	18.0	*	39.7	40.8	*	2200	2259	-
Mizoram	*Kharif*	5.6	5.6	*	8.0	8.4	*	1424	1521	-
	Rabi	0.2	0.1	*	0.2	0.2	*	1294	1286	-
	Total	5.8	5.7	*	8.2	8.6	*	1420	1515	-
Nagaland	*Kharif*	63.6	63.6	*	125.2	125.6	*	1969	1975	-
	Rabi	5.2	5.2	*	10.3	10.3	*	1973	1975	-
	Total	68.8	68.8	*	135.4	135.9	*	1969	1975	-
Odisha	*Kharif*	91.5	89.4	53.1	253.2	182.3	104.5	2766	2039	1968
	Rabi	3.6	2.3	2.5	10.4	5.9	6.4	2905	2608	2560
	Total	95.1	91.7	55.6	263.6	188.2	110.8	2771	2053	1993
Punjab	*Kharif*	130.0	126.0	115.0	507.0	460.0	424.0	3900	3651	3687
Rajasthan	*Kharif*	916.4	891.5	866.5	1463.8	1551.2	1141.7	1597	1740	1318
	Rabi	10.3	-	14.6	38.4	-	68.7	3729	-	4705
	Total	926.7	891.5	881.1	1502.2	1551.2	1210.4	1621	1740	1374
Sikkim	*Kharif*	39.9	39.9	*	68.8	68.9	*	1724	1727	*
Tamil Nadu	*Kharif*	188.0	190.7	134.6	1068.2	1083.7	879.5	5682	5682	6534
	Rabi	157.3	131.2	229.3	786.9	984.1	1503.9	5002	7500	6559
	Total	345.3	322.0	363.9	1855.1	2067.9	2383.3	5372	6423	6549
Telangana	*Kharif*	471.4	522.0	454.0	1688.0	1409.0	1160.0	3581	2699	2555
	Rabi	198.9	170.0	119.0	1086.7	899.0	576.0	5465	5288	4840
	Total	670.3	692.0	573.0	2774.7	2308.0	1736.0	4140	3335	3030
Tripura	*Kharif*	4.6	4.1	*	5.8	5.4	*	1277	1292	-
	Rabi	0.0	0.4	*	0.1	0.5	*	1500	1421	-
	Total	4.6	4.5	*	5.9	5.9	*	1279	1303	-
Uttar Pradesh	*Kharif*	696.0	643.0	605.0	1151.2	1143.0	1119.0	1654	1778	1850
	Rabi	71.0	74.0	74.0	155.0	136.0	136.0	2183	1838	1838
	Total	767.0	717.0	679.0	1306.2	1279.0	1255.0	1703	1784	1848
Uttarakhand	*Kharif*	25.0	24.5	23.0	35.5	50.8	39.0	1419	2070	1696
	Total	25.0	24.5	23.0	35.5	50.8	36.0	1419	2070	1565
West Bengal	*Kharif*	43.7	45.4	48.0	117.4	122.1	130.0	2687	2688	2708
	Rabi	85.0	107.0	108.0	405.0	541.0	590.0	4765	5056	5463
	Total	128.7	152.4	156.0	522.4	663.1	720.0	4059	4350	4615

A & N Islands	*Kharif*	0.1	0.2	-	0.3	0.6	-	2254	3529	-
D & N Haveli	*Kharif*	0.1	0.1	-	0.1	0.1	-	1000	1100	-
	Total	0.1	0.1	-	0.1	0.1	-	1000	1100	-
Others	*Kharif*	-	-	188.6	-	-	357.5	-	-	1896
	Rabi	-	-	15.1	-	-	26.4	-	-	1748
	Total	-	-	204.3	-	-	383.9	-	-	1879
All India	*Kharif*	7309.7	7563.4	7103.6	17145.2	17013.6	15242.7	2346	2249	2146
	Rabi	1756.5	1621.9	1587.7	7114.3	7159.0	6563.8	4050	4414	4134
	Total	9066.2	9185.3	8691.2	24259.5	24172.6	21806.5	2676	2632	2509

Note: '*' Data merged in 'Others'; '-' data not available

Doubling maize productivity

It is important to note that the major area of maize cultivation is in *kharif* season, while the maize productivity is higher in *rabi* season. In order to double maize production to five tonnes per hectare by 2025, the area in *rabi* season to be increased as well as develop maize hybrids with nine to ten tonnes/ha in *kharif* season in different zones.

There are number of upcoming hybrids with around 10 tonnes/ha yield which will contribute significantly in achieving national production of 5 million tonnes. Based on three years *kharif* data, two hybrids in PZ late maturity; one hybrid in medium maturity in NWPZ; and two sweet corn hybrid in NHZ and one hybrid in NWPZ yielded above 9 tonnes/ha over locations and are very promising. In addition, the past years data was screened for more than 10 tonnes/ha in at least 50 percent locations in different AVTs and NIVTs of different zones and the information obtained was very encouraging. A late maturing hybrid viz. HT51412616 yielded more than 10 tonnes at least 50% locations in PZ during 2014 as well as 2015. Two early hybrids also exhibited more than 10 tonnes/ha in NWPZ during 2015. In NWPZ one late maturing hybrid in 2016, 80 late maturing hybrids in 2015 and 50 hybrids in medium maturity group, exhibited more than 10 tonnes/ha at more than 50 per cent locations.

Release and Notification of varieties

During 2016-17, 8 cultivars of maize have been released and notified for commercial cultivation, out of which 7 were single cross hybrids, 1 was OPVs. Out of 8, six cultivars were from public sector and 2 were from private sector. The public bred cultivars comprised of 1 OPVs and 5 single cross hybrids. MPUAT, Udaipur has released one each of OPV (Pratap Makka-9 /EC-3161) and single cross hybrid (Pratap Hybrid Maize-3 /PH-1974) whereas UAS, Bengaluru, CSK, HPKV, HAREC, Bajaura, Kullu, PJTSAU, Hyderabad and PAU, Ludhiana has released one single cross hybrid each. The brief details of the cultivars released are given below.

(Contd.)

Cultivar	Notification Date	Notification No.	Area of Adaptation	Average Yield (t/ha)	Season
Pratap Makka-9 (EC-3161)	29/06/2016	2238(E)	Rajasthan	4.62	Kharif
Hema (NAH-1137)	29/06/2016	2238(E)	Karnataka	7 .25	Kharif
Pratap Hybrid Maize-3 (PH-1974)	29/06/2016	2238(E)	Central western zone	5.59	Kharif
Palam Sankar Makka 2 (EHL 161708)	29/06/2016	2238(E)	Northern and north-eastern hill zone	9.88	Kharif
Karimnagar Makka-1 (KNMH401031)	29/06/2016	2238(E)	Telangana	6.83	Kharif and rabi
PMH 7 (JH3956)	29/06/2016	2238(E)	Punjab	7.5	Spring
DKC 9126 (MCH 46)	29/06/2016	2238(E)	Northern and north-eastern hill zone and north-western plain zone	8.96	Kharif
UDAY (DMR-248) Mahabeej-1114	29/06/2016	2238(E)	Maharashtra		

Cultivars protected at PPVFRA

During 2016-17, 20 cultivars of maize have been protected under PPV & FRA which includes 17 normal maize hybrids and 3 quality protein maize. Among the 20 cultivars protected 5 hybrids were protected by TNAU, Coimbatore, 3 each from VPKAS, Almora and PJTSAU, Hydrabad, 2 each from CCSHAU, Uchani, GBPUA&T, Pantnagar and PAU, Ludhiana and MPUAT, Udaipur and 1 was protected by CSK HPKV, Bajaura .The brief details of the cultivars released are given below.

S.No.	Name	Centre	Period of protection (Years)
	Normal Hybrids		
1.	Vivek Maize Hybrid 39	VPKAS, Almora	February 1, 2016 to January 31, 2031
2.	Vivek Maize Hybrid 43	VPKAS, Almora	February 1, 2016 to January 31, 2031
3.	BH-1576 (DHM-111)	ANGRAU, Hyderabad	August 19, 2016 to August 18, 2031
4.	BH-1620 (DHM-113)	ANGRAU, Hyderabad	August 26, 2016 to August 25, 2031
5.	PMH 5 (JH 3110)	PAU, Ludhiana	August 19, 2016 to August 18, 2031
6.	Pant Shankar Makka-1	GBPUA&T, Pantnagar	August 19, 2016 to August 18, 2031
7.	Co 6	TNAU, Coimbatore	August 26, 2016 to August 25, 2031
8.	PMH 6 (JH 31292)	PAU, Ludhiana	August 26, 2016 to August 25, 2031
9.	Bajaura Makka (L 201 Composite)	CSK HPKV, Bajaura	August 26, 2016 to August 25, 2031
10.	Pant Sankul Makka-3 (D 131)	GBPUA & T, Pantnagar	August 19, 2016 to August 18, 2031
11.	DHM 119 (BH 4062)	ANGRAU, Hyderabad	August 19, 2016 to August 18, 2031
12.	Vivek Maize Hybrid 45 (FH 3483)	VPKAS, AImora	August 19, 2016 to August 18, 2031

13.	HM-12 (HKH 313)	CCSHAU, Uchani, Karnal	August 19, 2016 to August 18, 2031
14.	CoH (M)7 (CMH 08-287)	TNAU, Coimbatore	October 22, 2016 to October 21, 2031
15.	CoH (M)8 (CMH 08-292	TNAU, Coimbatore	October 22, 2016 to October 21, 2031
16.	CoH (M)9 (CMH 08-350)	TNAU, Coimbatore	October 22, 2016 to October 21, 2031
17.	CoH (M)10 (CMH 08-433)	TNAU, Coimbatore	October 22, 2016 to October 21, 2031
Quality Protein Maize Hybrids			
18.	PRATAP QPM HYBRID-1 (EHQ-16)	MPUA & T, Udaipur	August 19, 2016 to August 18, 2031
19.	HQPM -4	CCSHAU, Uchani, Karnal	August 26, 2016 to August 25, 2031
20.	Pratap Kanchan-2 (WC-236 (Y))	MPUA & T, Udaipur	November 9, 2016 to November 8, 2031

DUS Testing

ICAR-IIMR as nodal centre has conducted DUS testing of Maize varieties with co-nodal centre, SRTC, Hyderabad and need-based centre, MPKV, Kolhapur, and MPUA&T Bansawara. During *kharif* 2016 total 125 candidate entries were tested. It included 64 new hybrids, 2 OPVs, 3 VCKs, 16 FVs and 40 new inbred lines. Of these 64 new hybrids, 2 OPVs, 3 VCKs and 40 new inbred lines were tested at IIMR, New Delhi and SRTC, Hyderabad. Whereas 16 FVs were evaluated under grow out test at two locations namely MPKV, Kolhapur (5 FVs), and MPUA&T Bansawara (11 FVs).

A. Crop improvement

Development and testing of new maize hybrids in *kharif* 2016 trials

The entire maize growing area in India is divided in five major zones [Northern Hill Zone (NHZ), North West Plain Zone (NWPZ), North East Plain Zone (NEPZ), Peninsular Zone (PZ) and Central West Zone (CWZ)] for effective evaluation of the maize breeding materials and experimental cultivars. During *kharif* 2016, total 298 maize entries were evaluated in all India coordinated trials. Out of 298 test entries, 200 were evaluated in 'National Initial Varietal Trial' (NIVT), 33 in advance varietal trial-I (AVT-I), 8 in advance varietal trial-II (AVT-II), 21 entries in quality protein maize (QPM), and 36 in specialty corns trials (13 in baby corn, 10 in sweet corn, and 13 in popcorn trials). Among the 298 test entries received, 199 were contributed from public and 99 by the private sector. Fifteen breeding trials (four each of NIVT, AVT-I, specialty corns and three of AVT-II) were constituted for evaluation at 65 locations (34 regular and 31 volunteers) across country. Data received from different locations was reviewed and analyzed critically for yield and related traits. The performance of each variety was compared with 29 relevant checks varieties of different types and maturity in various zones. The test entries were promoted from first year (NIVT) to second year (AVT-I) on the bases of criteria given below:

i) Promotion criteria (Yield): Entries must be numerically superior over the best check and should have non-significant differences in yield from the best entry (rank 1st) of the trial at CD (P=0.05)

ii) In early and medium trials, besides yield, the test entry should not exceed the relevant best check by 1.5 days in days to 50% silking

iii) The disease reaction of test entries to the diseases of zonal/regional importance was considered while promotion

In specialty corn, besides yield, the quality parameters were also considered while promotion e.g. (QPM: % Trp ≥0.6; SC: TSS ≥ 15%; PC: Popping % age ≥ 80%), (Note: all quality parameters were analyzed in self (TSS, Popping %) and chain crossed (Lys, Trp) kernels

The entries were promoted from second year (AVT-I) to third (AVT-II) based on the 5% (sweet corn, popcorn, QPM and baby corn trials) and 10% grain yield superiority (in late, medium, and early) over the best relevant check of zone. Besides yield superiority, responses to major diseases of maize in a zone as well as days to 50% silk (Only in medium, and early maturity) were the other important criteria to promote a test entry for particular zone.

Further the percent success rate for a zone was calculated based on the trial allotted versus reported in final annual reports. The rate of success was highest in CWZ (88.0%) and lowest in PZ (66.9%).

Development and testing of new maize hybrids in *rabi* 2015-16 trials

In *rabi* 2015-16, total 112 entries were received for multi-location evaluation in AICRP late, medium maturity and quality protein maize (QPM) trials. Out of 112 test entries, 63 entries were received in NIVT, 24 in AVT-I, 23 in AVT-II and 2 entries in QPM trials. A total of seven breeding trials were constituted and put for evaluation at 18 test centres across the four zones. The data received was analyzed and percent success rate in term of trials reported in the annual report was calculated for each zone. The 100% success rate was reported in all the zones except NEPZ, where the lowest success rate (85.7%) was identified. There were 89 entries available for promotion from first and second year of testing, out of which only 32 entries got promoted to their advance stage of testing. Out of 37 test entries evaluated in NIVT late, 14 were found superior for set promotion criteria and therefore were promoted to AVT I-Late. Similarly, in NIVT medium, 3 out of 26 entries; AVT-I Late, 5 out of 15; AVT-I Medium, 8 out of 9, and in QPM, 2 out of 2 were found superior and hence were promoted to next level of their testing during Rabi 2016-17.

Off-Season nursery facilities to north Indian AICRP maize centres during Winter Season (Rabi):

Various ICAR Centres viz. VPKAS, Almora; IARI Maize Genetic Unit and Maize Pathology; ICAR-Research Complex, NEH region, Barapani; NBPGR, New Delhi; and AICRP Centres viz. Bajaura, Kangra, Pantnagar, Ludhiana, Srinagar, Udhampur are utilizing the off-season nursery at Hyderabad centre.

Germplasm sharing

During 2016-17, a total of 559 maize accessions (1080) were provided to 16 different AICRP and cooperating centres. During 2012-2017, 5981 accessions were displayed during maize germplasm field days. A total of 10818 accessions were distributed.

Maize Germplasm Field Day was organized at its Winter Nursery Centre, Hyderabad on 27th February, 2017. A total of 1401 maize accessions were grown in a compact block for assessment

and selections by breeders, pathologists, agronomists and entomologists from 27 AICRP centres from SAUs and ICAR institutes. The material included inbred lines from CIMMYT, NBPGR, and large segregating materials with sub-tropical and temperate background from IIMR and seven AICRP centres. Thirty-eight participants from AICRP, SAUs and ICAR institutes participated in the field day.

Decision Support Database

A decision support database has been created. The database displays information on select 14 traits. The database has been programmed to collate the documented traits and also the images of tassel and ear to help the scientists in decision support for crossing programme. As on date, the database has been updated with the information of over 300 maize inbred lines with full pedigree information. The database is being updated with additional features viz. Growing Degree Days (GDD), year and season of evaluation etc. The database will be up for use once after addressing all the suggestions and concerns of the breeders/users.

Characterization, evaluation and regeneration of maize germplasm

Four hundred and ninety nine accessions of maize germplasm lines have been characterized and evaluated for twenty-five traits during *kharif*, 2016. Two hundred and forty nine accessions were regenerated during *rabi*, 2016-17 under the CRP on Agro-biodiversity project.

Multiplication of maize wild species

Multiplication of *Zea mays subsp. parviglumis*, *mexicana*, *luxurians* has been taken up at the Winter nursery centre during *rabi*, 2016-17.

B. Quality Evaluation

Biochemical characterization and identification of appropriate germplasm is the major prerequisite for developing nutritionally improved maize cultivars. The biochemistry laboratory facilitates the identification of nutritionally superior germplasm for various quality traits such as protein quality, carbohydrate profile, oil content and carotenoids composition. During the period under review, entries contributed under AICRP quality trial received from Ludhiana, Almora and Delhi were analyzed for protein quality parameters such as protein, tryptophan and lysine. The samples were found to be almost uniform for kernel opaqueness and most of the entries were found to possess the desired concentration of tryptophan and lysine to be categorized as QPM. In addition to it 4 lines were evaluated for β-carotene (pro-vitamin A) at freshly harvested stage and after different periods of storage at normal and under vacuum packing. A set of 42 elite lines were evaluated for various quality traits and some high protein and high starch lines were identified. Three lines (UMI 1201, LM 13 and BML 7) out of this stock were found to be rich both in protein as well as starch. A set of 55 lines grown at two locations (Begusarai and Hyderabad) were evaluated for protein starch, oil and methionine. Some exceptionally superior lines were identified for protein (CA14502/CA14509)-F2-14-BBB-CML451-BBB-OPc14S1, 4840, CML44, EC646016, PFSRR3AAAA and PFSRS3), Starch (DMRPE6-2, HP963-17, NZB 2012), oil (HKI42050) and methionine (CML145 and NZB 2012) across replications and location. Apart from this a large number of lines at various stages of QPM development were

analyzed for protein quality. A set of 4 lines were identified as high oil (≥5%) lines out of a large stock of samples analyzed for this trait.

C. Crop Production

The major agronomic research areas during *kharif* 2016 and *rabi* 2015-16 were:

- Optimization for different maturity pre-released and notified maize hybrids,
- Precision nutrient management, site specific nutrient management (SSNM) for maize hybrids and tillage practices,
- Weed management in maize,
- Enhancing water-use efficiency in rainfed maize.
- Long term trial on integrated nutrient management

Evaluation of pre-release genotypes under varying planting density and nutrient levels

A total of six pre-release genotypes of late maturity group were evaluated with 6 national checks under two densities and two nutrient levels (200:65:80, 250:80:100 N:P_2O_5:K_2O kg/ha) for late maturity hybrids. The genotype DMH-192 yielded significantly higher yield over best check in PZ with high nutrient levels (250:80:100 N: P_2O_5: K_2O kg/ha) and planting density (83,000), while in CWZ, DKC9151 (IM8902) was found superior over best check (PMH-1) at low nutrient levels (200:65:80 N: P_2O_5: K_2O kg/ha) and higher planting density (83,000). This shows that there is need for having customized Package of Practice of individual hybrids, rather than going for blanket recommendation.

In *rabi* 2015-16, late and medium-maturing group responded up to 250:95:95 N:P2O5:K2O kg/ha. A set of 17 pre-release late maturing genotypes evaluated where KH-3021, DMRH 1308, X35F880and DKC9161 (IM8222) found significantly superior over best check in NEPZ but in PZ, KH-2192, DKC9161 (IM8222), HTMH- 5108 and X35F880 gave significantly higher yield over checks. The genotype 'CP 111' exhibited significantly superior yield over the best checks at higher nutrient level and plant density in CWZ.

Seven pre-release medium maturing genotypes were also evaluated in *rabi* season 2015-16 under different nutrient levels and densities at nine locations. In NWPZ, genotypes BL 900, BL 147, IM 8303, BL 798, DMRH 1301 and KH-517 yielded significantly higher than best check at high nutrient levels and planting density. At Bahraich and Dholi (NEPZ) the genotypes DMRH 1301 and IM 8303 yielded significantly higher than the best check Bio 9637 (C), but at Kalyani BL 147 genotype gave significantly superior at higher nutrient levels and planting density. However, the genotype BL 798, KH-517 and BL 147 in yielded significantly superior over the best check at Karimnagar and Dharwad (PZ). The genotype BL 798 yielded significantly higher than the best checked Bio 9637 (C) at Banswara (CWZ).

Experiments on nutrient management in maize based cropping system under different tillage practices have also shown encouraging results when maize-mustard/chickpea system under rainfed condition planting of maize with zero tillage resulted in 3.3-42.8% higher yields in various zones. In maize-wheat-green gram cropping system, zero tillage resulted in significantly higher crops yield and site specific nutrient management (SSNM) gave higher yield over

farmer's fertilization practices (FFP) and RDF at Banswara. The RDF and SSNM also resulted in significantly higher yield at maize-wheat-mungbean system at Pantnagar over FFP.

Nutrient management in Rice- Maize cropping system under different tillage practices

In rice-maize cropping system, at Dholi the tillage practice of permanent beds (PB) resulted in significantly higher cob yield and site specific nutrient management (SSNM) gave higher yield over farmer's fertilization practices (FFP) and RDF in grain yield and RDF found statistically *at par*.

Nutrient management in rainfed cropping systems under different tillage practices

In maize-mustard cropping system, permanent beds (PB) resulted in significantly higher crops yield over zero tillage (ZT) and site specific nutrient management (SSNM) gave higher yield over farmer's fertilization practices (FFP) and RDF at Chhindwara while conventional tillage (CT) found statistically *at par*. In maize based cropping system, zero tillage (ZT) resulted in significantly higher maize equivalent yield of mustard yield over CT while PB was statistically at par. Further, the application of 100% RDF gave higher yield over control, however, SSNM and 50% RDF + CR @2.5 t/ha were found statistically *at par*.

Plant density and nutrient management practices for hybrid in *rabi* season

The location specific and hybrid specific reposes to the nutrient management and planting density was observed during *rabi* season in maize. The STCR based nutrient management gave significantly higher yields over RDF at higher plant density in hybrid Bio-9628 at Banswara (CWZ) while at Chhindwara, nutrient management under SSNM gave significantly higher yield in DKC 7074 but plant density was found to be non significant. In Karimnagar, the nutrient application based on 150% RDF gave significantly higher yield over RDF and SSNM at low planting density, while STCR and SSNM found statistically *at par*. While at Pantnagar, no significant yield effect was found under different planting density, nutrient management and hybrids.

Similarly at Vagarai, only hybrid K-3110 resulted in significantly higher yield. However, at Dholi the STCR based nutrient management gave significantly higher yields at higher plant density in NK7720 but SSNM (225:60:80) based nutrient management recorded significantly higher yield at low planting density under hybrid Dekalb 900 at Bahraich. At Coimbatore, the nutrient application based on RDF resulted in significantly higher yield over SSNM at high planting density under hybrid COH 7 but STCR found statistically *at par* but SSNM was significantly superior over RDF and STCR at high planting density under hybrid ranger SMH-1188 at Dharwad.

Weed management in maize systems

For finding best post emergence herbicide it was found that Atrazine @ 1.5 kg/ha pre-emergence fb Tembotrione (Laudis) 120 g/ha PoE at 25 DAS at 13 locations, while Atrazine @ 1.5 kg/ha pre-emegence fb Halosulfuron 60 g/ha 25 DAS) found effective for weed management in *kharif* maize at five locations (Srinagar, Udhampur, Karnal, Bahraich and Dholi). In *rabi* season the succeeding crop yields were recorded at various location showed that the weed-free treatment

resulted in significantly higher crops yield over remaining treatments of different weed management practices at Banswara. However, no significant effects on yield of succeeding crop were found at Pantnagar and Dholi.

Long term trial on integrated nutrient management in maize- wheat cropping system

To explore the possibilities of integrated nutrient management by inclusion of organic sources in maize production this long term experiment was initiated during *kharif* 2014 at Pantnagar. After completion of three years, significantly higher maize grain yield (5.73 t/ha) was obtained with 100% RDF + 5 t/ha FYM, however, it remained *at par* with 100% RDF+ 5 kg Zinc Sulphate (5.47 t/ha). On the contrary, economic analysis showed a new path for organic cultivation of maize and in second consecutive year it was found that maize + cowpea as intercrop with FYM 10 t/ha + Azotobacter resulted in highest net returns and B: C ratio of maize or maize-wheat system. In maize-wheat cropping system, the application of 100% RDF + 5 t/ha FYM under integrated nutrient management gave significantly superior system yield but Maize + cowpea with FYM 10 t/ha + Azotobacter gave significantly higher system net returns over all the remaining treatment.

Optimization of plant geometry and nutrient management for *rabi* zero-tillage maize

This experiment was conducted at the farmer's field. The use of the 60 x 20 cm^2 planting density along with STCR based nutrient application with improved nutrient management of fertilizer placement resulted in maximum yield of zero-till *rabi* maize at Hyderabad over higher plant population, farmer fertilizer doses and the surface phosphorus nutrient application. It suggest the existing practices of the higher planning density and inappropriate nutrient management practices needs to be reoriented for yield maximization and sustainability of *rabi* maize.

Enhancing water-use efficiency in rainfed maize

The experiments were conducted at six locations to find practices for enhancing water-use efficiency in rainfed maize responded to zero tillage + mulch over conventional tillage without mulch. However, the application of hydrogel @ 2.5 or 5.0 kg/ha in maize could not able to increase the succeeding wheat yield in any tillage practices. However, the succeeding wheat yield was *at par* under all for tillage and residue management practices of conventional tillage or zero tillage with and without mulching at Dholi which suggest that the ZT can be adopted in Eastern IGP as it has no yield penalty on succeeding wheat crop besides saves cost of field preparation.

Optimization of potassium fertilization for eastern India

This experiment was initiated in kharif 2016 with the objective to work out economic optimum dose of potassium in maize for eastern India at 5 locations Baharaich, Dholi, Ranchi, Ambikapur and Kalyani. The treatment comprises of graded doses of K_2O from 0-150 kg/ha. Results revealed that potassium dose of 150 kg/ha resulted in significant increase at Ranchi and Ambikapur, while at Dholi it responded upto 120 kg/ha and at Kalyani and Bahraich upto 60 kg/ha only. It was inferred that there is variable response of maize to the potassium fertilization in Eastern India.

D. Crop Protection & Resistance Breeding

Pathology

A. Host plant resistance:

A total of 34 trials (27 in *Kharif* & 7 in *Rabi* 2015-16) were conducted in sick artificial inoculating conditions at hot spot locations and at 13 testing centres. In NIVT, AVT-I & AVT-II Late, Medium, Early & Extra early maturity a total of 335 hybrids and nearly 1400 inbred lines were evaluated for important diseases. The promising hybrids with multiple disease resistant (MDR) are enumerated.

Promising hybrids exhibited multiple disease resistant (MDR) reaction is enumerated below in different trials and maturity group

NIVT

Late maturity

Genotype	Resistant				
	NHZ	NWPZ	NEPZ	PZ	CWZ
HT 16607	MLB, TLB, CLS	BSR	MLB	C.RUST	FSR, RDM
JKMH 4152	MLB, CLS	MLB, BSR	-	-	RDM
HM16305	MLB, TLB, CLS	MLB	MLB	C.ROT, C.RUST	FSR, RDM
CMH11-591	MLB, CLS	MLB, BSR	-	C.ROT	-
GK3202	MLB, TLB, CLS	MLB, BSR	MLB	C.ROT	CLS
VNR 33051	MLB, TLB, CLS	MLB	MLB	TLB, C.RUST	RDM, CLS
GK3204	MLB, TLB, CLS	MLB, BSR	MLB	TLB, C.RUST	RDM, CLS
MAH-14-5	MLB, TLB, CLS	MLB	MLB	C.RUST	RDM
JH 13023	MLB, CLS	MLB, BSR	-	C.ROT, C.RUST SDM	RDM
BIO 274	MLB, TLB, CLS	BSR	MLB	C.ROT, C.RUST	RDM, CLS
JH 15004	MLB, CLS	MLB, BSR	MLB	TLB, C.ROT	CLS
VaMH 13024	MLB, TLB, CLS	MLB	MLB	TLB, C.ROT	FSR, CLS
GK3202	MLB, TLB, CLS	MLB, BSR	MLB	C.ROT	CLS
OMH 14-27 (CAH1511)	MLB, TLB, CLS	MLB	MLB	TLB, C.RUST	RDM, CLS

Medium maturity

Genotype	Resistant				
	NHZ	NWPZ	NEPZ	PZ	CWZ
DH-291	MLB, CLS	MLB	MLB	C.ROT	RDM, CLS
IQ8319	MLB, CLS	MLB, BSR	MLB	C.ROT, C.RUST	RDM, CLS
WH-1003	MLB, TLB, CLS	MLB	MLB	C.ROT	RDM, CLS
IMHBG-2016-4	MLB, TLB, CLS	BSR	MLB	TLB, C.ROT, C.RUST	RDM, CLS
IMHBG-2016-5	TLB, CLS	MLB	-	C.ROT	RDM, CLS
LMH 1116	MLB, TLB, CLS	BSR	MLB	TLB, C.ROT, C.RUST	CLS
IMH 1601	MLB, CLS	BSR	-	C.ROT	CLS
MMH 1403	MLB, TLB, CLS	BSR	MLB	C.ROT	CLS
KH-2001 Gold	CLS	-	MLB	-	RDM, CLS
LMH 1216	MLB, CLS	BSR	MLB	TLB, C.ROT	RDM, CLS
LMH 1016	TLB, CLS	-	MLB	TLB, C.ROT	FSR, CLS
DAS-MH-310	MLB, TLB, CLS	-	-	TLB, C.RUST	CLS

Early maturity & Extra early maturity

Genotype	Resistant				
	NHZ	NWPZ	NEPZ	PZ	CWZ
JH 31784	MLB, BSLB, CLS	BSR	-	C.ROT	CLS
KDMH-105	MLB, CLS	-	MLB	C.RUST	RDM
MH 22	MLB, CLS	-	MLB	C.ROT	-
DH-304	MLB, CLS	MLB	-	TLB, C.RUST	RDM
FH 3771	TLB, CLS	-	-	C.ROT	-

AVT I & AVT II

Late maturity

Genotype	Resistant					
	NHZ	NWPZ	NEPZ	PZ	CWZ	NHZ
C.P 802	MLB, CLS	-	MLB	C.ROT, C.RUST	CLS	TLB, BSR
PM15103L	MLB, CLS	BSR	MLB	C.ROT	CLS	TLB
DKC9164 (IP9002)	MLB, CLS	BSR	-	C.ROT	RDM, CLS	TLB, BSR
PM15104L	MLB, CLS	BSR	-	C.ROT	CLS	TLB
DKC9163 (IP8703)	MLB, CLS	BSR	-	C.ROT	FSR, RDM, CLS	TLB
SYN516753	MLB, CLS	BSR	-	TLB, C.ROT, C.RUST	RDM, CLS	TLB
DAS-MH-111	MLB, TLB, CLS	-	MLB	C.ROT	CLS	-
ADV 7022	MLB, CLS	-	-	C.ROT, SDM	RDM, CLS	TLB,
HT 51412616	MLB, CLS	-	MLB	C.ROT	CLS	TLB
DKC9151(IN8902)	MLB, CLS	BSR	MLB	C.ROT	RDM, CLS	TLB
ADV 0990296	MLB, CLS	BSR	-	C.ROT	CLS	TLB
KH-2192	MLB, CLS	-	-	C.ROT	RDM, CLS	TLB

Medium maturity

Genotype	Resistant				
	NHZ	NWPZ	NEPZ	PZ	CWZ
IIMRNH 2015-4	MLB, CSL	MLB	MLB	C.ROT	CLS
BL 107	MLB, CLS	BSR	-	-	CLS
JH 13348	MLB, CLS	MLB, BSR	-	TLB, C.ROT	RDM, CLS
LMH 615	MLB, CLS	-	MLB	C.ROT	CLS
BL 106	MLB, CLS	BSR	-	-	FSR, CLS
JH 13347	MLB, CLS	MLB, BSR	MLB	C.ROT	FSR, CLS
HM15206	MLB, CLS	MLB	-	C.ROT	RDM, CLS
AVT-II Medium					
HM15207	MLB, CLS	-	-	C.ROT	RDM
JH 31605	MLB, CLS	MLB	-	C.ROT	RDM, CLS
C.P 201	MLB, CLS	MLB	-	-	RDM
JKMH 4848	CLS	-	-	C.ROT	FSR

AVT I (Early maturity)

Genotype	Resistant				
	NHZ	NWPZ	NEPZ	PZ	CWZ
AVT-I Early					
KMH-13-15	MLB, CLS	-	-	-	-
FH 3754	MLB, CLS	-	-	-	-
JH 31785	MLB, CLS	BSR	-	-	CLS
JKMH 4222	MLB, CLS	-	-	C.ROT	CSL
AH-7006	MLB, CLS	-	-	C.ROT	-
DMRH 1305	MLB, CLS	-	-	-	RDM, CLS

Specialty corn hybrids

A. Selected Popcorn hybrids exhibited resistant reaction

Genotype	Resistant		
	NHZ	NWPZ	PZ
DPCH-306	MLB, CLS	-	C.ROT
IHPC-1201	MLB, CLS	BSR	C.ROT
IHPC-1203	MLB, CLS	BSR	-
SJPC1	MLB, CLS	BSR	-

B. Selected Sweet Corn hybrids exhibited resistant reaction

Genotype	Resistant			
	NHZ	NWPZ	NEPZ	PZ
ASKH 4	MLB, CLS	BSR	MLB	-
ASKH 6	MLB, CLS	BSR	MLB	-
Madhula	MLB, CLS	BSR	-	C.ROT
BIO 4043	MLB, CLS	-	-	C.ROT
MITHAS	MLB, TLB, CLS	BSR	-	-

C. Selected Baby Corn hybrids exhibited resistant reaction

Genotype	Resistant				
	NHZ	NWPZ	NEPZ	PZ	CWZ
AH-5021	MLB, CLS	MLB, BSR	MLB	C.RUST	-
IMHB 1537	MLB, TLB, CLS	-	-	TLB	CLS
DMRHB 1305	MLB, TLB, CLS	-	MLB	TLB	RDM
AH-7043	MLB, TLB, CLS	MLB, BSR	MLB	C.ROT	RDM, CLS
IMHB 1525	MLB, CLS	BSR	-	-	RDM, CLS
IMHB 1538	MLB, TLB, CLS	MLB, BSR	-	C.ROT	CLS
MBC 11-15	MLB, CLS	-	-	C.ROT	-
IMHB 1529	MLB, TLB, CLS	MLB	-	C.ROT	CLS
IMHB 1531	MLB, TLB, CLS	BSR	-	C.ROT	CLS
GAYMH-1	MLB, CLS	BSR	-	C.ROT	-
IMHB 1539	MLB, CLS	-	MLB	-	CLS
IMHB 1532	MLB, TLB, CLS	BSR	MLB	TLB	RDM, CLS

D. Selected QPM hybrids exhibited resistant reaction

Genotype	Resistant				
	NHZ	NWPZ	NEPZ	PZ	CWZ
QPM-MH-27	MLB, TLB CLS	-	-	TLB, C.ROT	RDM, CLS
IIMRQPMH 1501	MLB, TLB, CLS	BSR	MLB	TLB, C.ROT, C.RUST	RDM, CLS
VEHQ-16-1	CLS	MLB	-	-	RDM
IIMRQPMH 1609	MLB, TLB, CLS	BSR	-	TLB, C.ROT	RDM
IIMRQPMH 1604	MLB, TLB, CLS	-	MLB	C.ROT	RDM
IIMRQPMH 1607	MLB, CLS	BSR	-	C.ROT	RDM
IIMRQPMH 1502	MLB, TLB, CLS	-	MLB	C.ROT	RDM, CLS
REHQ2014-11	MLB, CLS	MLB	MLB	-	RDM, CLS
IIMRQPMH 1602	MLB, TLB, CLS	BSR	-	TLB, C.ROT	RDM, CLS

Screening of hybrids against cyst nematode (*Heterodera zeae*) at Udaipur

A total of 335 hybrids from NIVT and AVT groups were screened against cyst nematode (*Heterodera zeae*). Out of them, 24 entries were moderately resistant some of them are*;* HT 16607, IMHBG-2016-3, OMH 14-27 (CAH1511), JH 13337, BIO 716, OMH 14-18 (CAH 1519), IMHBG-2016-4, IMHBG-2016-1, IMHBG-2016-6.

Inbred line evaluation

Mapping population of 210 (MP-12) and 207 (MP-13) genotypes were tested for mapping population out of them, 154 and 26 genotypes showed resistance against MLB in NEPZ and NWPZ respectively.

Association panel of 337 genotypes were screened out of them 10 genotypes were identified resistant to TLB, C. rust and C. rot in NHZ, PZ and NWPZ. A total of 114 inbred lines screened for TLB and 36 lines in NHZ and 15 lines in PZ showed resistant reaction. A total of 134 inbred lines screened for RDM & SDM, of them 38 lines were resistant against RDM in PZ. A total of 84 genotypes tested, out of them 8 were resistant at hot spot locations Delhi, Ludhiana, Udaipur and Hyderabad of them 8 were resistant across the locations.

Assessment of avoidable yield losses due to major diseases of maize

Yield losses due to major diseases of maize were assessed at various testing centres using paired plot technique under artificially created epiphytotics. A yield loss goes up to 13.40; 87.20; 87.87; 79.86 and 72.21% due to MLB, TLB, SDM, RDM and cyst nematode, respectively.

Maize diseases trap nursery trial

Trap nursery trial is an important activity in maize pathology programme to find out the occurrence of any new disease(s) on maize in maize growing locations. This year Anthracnose leaf spot was also recorded at Pantnagar in low to moderate intensities whereas at Udaipur, common rust was observed which are new for these locations may be due to changing in climatic conditions.

Occurrence of maize cyst nematode in Rajasthan

A total of 33 samples out of 51 infested with maize cyst nematode *(Heterodera zeae*). Besides this, root lesion nematode, *Pratylenchus zeae* was observed in most of the samples in high numbers (150-320 nemas/ 100 cc soil). Therefore, it requires attention

Integrated Disease Management (IDM) strategy for major diseases
IDM strategies were identified and validated at various testing centres for major diseases viz., MLB, TLB, BLSB, C. rust, SDM, RDM and PFSR

Best component for various diseases are given below

MLB
- Aquous extract of *Melia azedarach* leaves @ 10%
- Two sprays of Dithane M 45 @ 2.5 gm/l

TLB
- *Azadirachta indica* leaves @ 10%
- *Calotropis* sp. (AK, Madar) @ 10%
- Cow urine @ 50%

BLSB
- Validamycim @ 0.1%
- Azoxystrobin @ 0.05%
- Pencycuron @0.1%

Efficacy of leaf stripping on severity of BLSB validated at various testing centres and it is effective in 1.67 to 69.81% disease control with 1.17 to 39.60% yield increase as compared to check

SDM
- *Bacillus amyloliquefaciens* @10g/kg as seed treatment, bioagent-fortified FYM (1:50) and spray @ 1.0%
- Azoxystrobin @ 0.2% seed treatment and spray @ 0.15%
- Metalaxyl+Mancozeb @ 0.25% seed treatment and spray @ 0.25%
- Metalaxyl @ 0.25% seed treatment and spray @ 0.25%

Cyst Nematode
- *Trichoderma harzianum* 2% w/w + Lantana leaf 1 q/ha
- *Trichoderma viride* 2% w/w + Neem cake 2 q/ha

<u>Evaluation of AICRP entries against maize stem borers</u>

Different Maturity group:
Out of 24 maize entries of late maturity group screened under artificial infestation against *C. partellus* , three entries, KMH-2852 (2.3), DKC 9167 92.7) and ADV 7022 (2.9) were found to be resistant at North East Plain Zone while CMH 12-686 (2.8), DASMH 111 (2.6) and Seed Tech 2324 ©(3.0) were found to be resistant at Central Western Zone. None of the entries were found to be resistant at NW Plain zone and peninsular zone.

Among medium maturity group, three entries IIMRNH2015-4 (2.7), JH 13347 (2.3), PE 621 (2.7) at NE plain zone and JKMH 4103(1.8), CP 201 (2.4), JH 31605 (2.5) at central western zone were found to be resistant to *C. partellus*. Under the early maturity group, one entry JH 31785 (2.5) at NE Plain zone and another entry DMRH 1305 (2.8) at central western zone showed resistance towards *C. partellus*.

QPM: Out of 27 QPM entries tested, four entries at NE plain zone IIMRQPMH 1501(2.7), FQH 106 (2.3), IIMRQPMH 1502 (2.5) and IIMRQPMH 1602 (2.8) and seven entries KDQH-51

(2.9), IIMRQPMH 1601 (2.7), IIMRQPMH 1504 (1.9), IIMRQPMH 1502 (2.6), REHQ2014-11 (2.8), HQPM 1 (C) (2.6) and HQPM 5 (C) (1.9) at CW Zone were found to be resistant to *C. partellus*. None of the entries were found to be resistant at NW Plain zone and peninsular zone.

Specialty corn

Among 14 pop corn entries tested, three entries IHPC- 1203 (2.7) and SJPC 1 (2.7) were found to be resistant at NE plain zone while popcorn (Jaya Shree) (2.8) and IHPC- 1203 (2.5) were found to be resistant at CW zone. None of the entries were found to be resistant at NW Plain zone and peninsular zone.

Out of 14 baby corn entries tested, two entries BVM-2 (2.2), IMHB 1531(2.3) were found to be resistant at NE plain zone and another two entries AH-7043 (3.0) and IMHB 1538 (2.8) were found to be resistant at peninsular zone. In central western zone, the following entries were found to be resistant. AH-5021 (2.1), AH-7043 (2.5), IMHB 1538 (3.0) and IMHB 1539 (2.6).

Out of 13 sweet corn entries tested against *C. partellus*, Madhula (2.7), BSCH 6 (2.3) were found to be resistant at NE plain zone while only one entry ASKH 4 (2.3) was found to be resistant at CW zone. None of the entries were found to be resistant at NW Plain zone and peninsular zone.

Evaluation of inbred lines against *C. partellus* under artificial infestation

Out of 38 inbred lines screened against *C. partellus*, the following lines IC584585 (3.0), EC646047 (2.8), E62 (2.9), E63 (2.6), IIMR SBT POOL (2.9), IIMR PBT SYNTHECTIC (2.7) were found to be resistant at NWPZ. The following lines IC565897 (2.3), IC584542 (2.5), AEB(Y) 34-1-1 (2.7), AEB(Y) 34-1-1 (2.6), EC440623 (2.7) were found to be resistant at NEPZ. In PZ, only one line DMR E63 (2.8) was found to be resistant. The following lines AEB(Y) 34-1-1 (2.5), AEB(Y) C538-1 (1.5), EC4400414 (2.7), EC440612 (2.3), E63 (2.7), DMR E63 (1.3) were found to be resistant at CW zone.

Monitoring of *Helicoverpa armigera* by pheromone traps

The population of *Helicoverpa armigera* was monitored from tasseling till harvesting stage by installing pheromone traps during *kharif* 2016. The traps were regularly observed and number of moths per trap was recorded at weekly interval. The moths started appearing in third week of August and continued till first week of December at Hyderabad with maximum number of moths i.e. 4.50/trap/week noticed in 3rd week of October. Moth appearance was observed in fourth week of August at Delhi and continued up to third week of October with maximum number of moths 27.5/trap/week noticed in third week of September. At Karnal, the moths appeared from first week of September and continued up to third week of October. Maximum number of moths (11.12/trap/week) was recorded during third week of September. Moths emergence were observed from second week of September at Udaipur with maximum activity (3.0 /trap/week) recorded during first week of October.

Evaluation of insecticides against *C. partellus*

The newer insecticide molecules Chlorantaniliprole 20SC (at 0.2 and 0.3ml/l) and Flubendiamide 480SC (at 0.1 and 0.2ml/l) are found effective against *C. partellus* in maize.

Evaluation of bio-pesticides against *C. partellus*

The efficacy of three *Beauveria bassiana* isolates Bb-5a, Bb-23, Bb-45, *Metarhizium* isolate Ma-35, Delffin 5 WG and Neem formulation along with state recommended insecticide were evaluated at AICRP centres during *kharif* 2016. Delfin 5WG followed by neem formulation were found to be most effective based on leaf injury rating observed at 25 days after infestation while state recommended chemical followed by Delfin 5WG resulted in maximum yield return as compared to control.

Rabi 2015-16

Evaluation of maize entries under artificial infestation against spotted stem borer, *Chilo partellus and Sesamia inferens* during *rabi 2015-16*

Out of 56 maize entries of late maturity group screened under artificial infestation against *C. partellus* at Kolhapur, two entries, KMH-1411 (2.98) and PM14207L (3.0) and none in medium maturity group were found to be resistant. The same medium maturity entries when screened against *S. inferens* at Hyderabad, Delhi and Karnal centres, the entry BL 900 was found to resistant across the centres. Under the late maturity group, ten entries showed resistance towards *S inferens*.

The first year screening of 117 inbred lines against *S. inferens* at WNC, Hyderabad resulted in identifying four resistant entries CML 202 (2.85), CML 9 (2.9), V-353 (3) and HEY Pool -2011-5-4-1-2-1-1 (3.0) . The second year screening of 35 inbred lines resulted in identifying three resistant inbred lines viz., EC440415 (2.4), IIMRSBTPOOL (2.67) and BCK/BC4 (2.71) at WNC against *S. inferens.*

Evaluation of maize inbred lines against Sorghum shoot fly under natural infestation during *spring* 2016

Out of 33 inbred lines screened against shoot fly (*Atherigona soccata*) at Delhi during spring 2016, 5 inbred lines PFSR5106/1 (8.33), CM117-3-4-1 (8.33), WS2 (0.0), HKI1831 (9.09), WINPOP-8 (8.33) were found to be resistant. At Ludhiana, the following lines PFSR 5106/1 (1.07), AEB(Y)1 (1.33), BML14 (1.18), CLQRCYQ42 (0.94), CM117-3-4-1 (1.31), CML23 (0.99), AEBYR (1) (1.37), BML 7 (1.03), HKI164-3-(2-1)-1 (1.34), HKI 1831 (1.30), WINPOP 8 (1.14), AEBYR (1) (1.34) were found to be resistant against shoot fly(*A.naquii*).

Identification of multiple borer resistant genotypes in maize

One hundred and twelve early lines were screened against pink stem borer under artificial infestation only four lines viz., CML 202 ,CML 9, V 353 and HEY Pool 2011-54-1-2-1-1 recorded LIR less than 3.0.Thirty five lines were screened against Pink borer under artificial infestation in a replicated trial for the second year. Only three lines EC 440415 (2.40) IIMR PBT

Pool (2.67) and BCK/BC4 (2.71) recorded LIR less than 3.0. Pink borer mapping population advanced through single seed decent method to F4. Of the 139 lines evaluated against *Chilo partellus* under artificial infestation the three lines BPT10, HEY Pool -2011-12-3-3-3-1-1, HEY Pool -2011-37-2-1-3-1-1 recorded Leaf injury rating less than 4.0.

Development of management tools for maize pests

Extended husk is a promising host plant resistance factor against *Helicoverpa armigera* damaging the ears of maize. Correlation coefficient of husk extension with the extent of ear damage is -0.841, p=<.0001.

Inter-node penetration resistance is a promising character for resistance breeding to stem borers. Penetration resistance at the pith of three (r^2-0.66, p=0.001) and four (r^2-0.45, p=0.04) weeks old plants and at the rind of three (r^2-0.56, p=0.01), four (r^2-0.58, p=0.007) and five (r^2-0.75, p=0.0001) weeks old plants are negatively correlated with the extent of leaf damage caused by *C. partellus*.

Management of *Sitophilus oryzae* L. and *Sitotroga cerealella* (Oliv.) infesting stored maize through Host Plant Resistance and Plant Origin Pesticides

- The combination of sun drying of maize for 4 hours from 11.00 a.m to 3.00 p.m for weekly intervals along with application of leaf powder of *Erythrina indica* at the rate of 2% w/w provided the best protection against *Sitophilus oryzae* infestation.
- 75% hexane/ethylacetate fraction of ethylacetate extract of leaf of *Tinospora cordifolia* exhibited significant repellent activity (80%) towards *Sitophilus oryzae* at conc 0.5 to 1.5%.
- 50% hexane/ethylacetate fractions of hexane and ethylacetate extracts of leaf of *Erythrina indica* exhibited highest repellency (80%) towards *Sitophilus oryzae* at conc 0.5 to 1.5%.

E. Outreach Programme

The Indian Institute of Maize Research and the AICRP maize providing extension services related to maize research and development to the nation through organizing Frontline Demonstrations (FLDs), field days, trainings *etc.* The demonstrations were organized at farmer's field by IIMR, 19 AICRP centres and two NGO partners in 18 states. During *rabi* 2015-16, spring 2016 and *kharif* 2016 a total of 287.9 hectares FLDs were undertaken in different states. All promising technologies on maize viz., package of hybrid maize cultivation, intercropping, specialty corn production etc were demonstrated. A yield gap of 63.6, 191.7 and 100.6% in maize was observed during *rabi*, spring and *kharif* seasons, respectively. Demonstrations on Maize+Arhar were also conducted at Varanasi. These yield gaps at the farmers field indicates potentials of further enhancing the yield levels of maize across the country.

Details of FLDs conducted during different seasons in 2015-16

Season	States covered	FLDs conducted (ha)	Mean FLD Yield (kg/ha)	Increase over national avergae (%)
Rabi 2015-16	Telengana , Bihar, Assam, M.P., Tamil Nadu	70.7	6763	63.6
Spring 2016	Bihar, Haryana, Punjab	40	6261	191.7*
Kharif 2016	U.P., Jharkhand, J&K, Gujarat, Punjab, M.P. , Tamil Nadu, Telengana, Karnataka, Chhattisgarh	177.2	43.06	100.6

Tribal Sub Plan scheme

The Institute organized five National Level Programmes at New Delhi and one National Level Programme at Ludhiana for tribal farmers to enrich their skills in respect of latest production technologies, specialty corn and value addition in maize during 07-09 September, 22-24 September, 28-30 September, 21-22 October, 2016, 25-27 February and 02-04 March, 2017. In these trainings, 268 tribal farmers from various states viz. Rajasthan, Telangana, Jharkhand, Madhya Pradesh, Gujarat, Odisha, Maharashtra, Assam Himachal Pradesh, and Chhattisgarh were trained. The uplift the economic conditions of the farmer's seed of improved maize hybrid, maize sheller, literature, sprayers etc. provided to beneficiaries.

The IIMR participated in *Gramoday se Bharat Uday Abhiyan* during 23-24 April, 2016 at Jamshedpur, Jharkhand, Kishan Mela on 07 May 2016 at Nawla village, District Muzaffarnagar (U.P.), 3rd International MSME Expo and summit during 11-13 August, 2016 at *Pragati Maidan*, New Delhi, *Krishi Unatti Mela* during 26-29 September, 2016 at Mathura (U.P.), *Diwali Mela* during 15-16 October, 2016 at Pandara Park, New Delhi, 4th International Agronomy Congress during 22-26 November, 2016 at Pusa Campus , New Delhi and Northern Regional Agricultural fair- Krishi Kumbh during 28-30 November, 2016 at GIC ground, District Muzaffarnagar (U.P.). More than 3000 visitors visited the exhibition and enriched with the maize production, protection and value addition knowledge.

New Initiatives

In order to increase the number of location in maize trials, 17 new centres from private seed companies had shown their willingness and given consent to conduct AICRP-AVT maize trials without any charges, will be added from next year. In order to handle the huge data of large number of locations a new initiative in form of AICRP maize portal for online data submission and analysis is under consideration.

Decoding list of entries tested in Kharif 2016 coordinated trials

Trial. 61 (Late)-A

Trial No. : Late Maturity (NIVT) (61)A
Year (Season): 2016-Kharif
Replication : 3
Row No. : 2
Row Length: 4 mts.
Locations: Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Sabour, Dharwad, Mandya, Karimnagar, Hyderabad, Coimbatore, Vagarai, Kolhapur, Rahuri, Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua,

E.No.	Name	Institute/Organization	Zone	IIMR Code	R1	R2	R3
1	BLH 115	Bisco Bio Sciences Pvt.Ltd.	All*	IMR101	1029	1071	1125
2	GH-1427	Dharwad	All*	IMR102	1041	1074	1106
3	SYN617328	SYNGENTA	All*	IMR103	1038	1097	1146
4	CMH11-583	TNAU	All*	IMR104	1025	1083	1104
5	CCH 9241	Rhini Seeds Private limited.	All*	IMR105	1044	1078	1111
6	VaMH 13024	Vagarai	All*	IMR106	1049	1079	1138
7	GK3202	Ganga Kaveri Seeds Pvt. Lt	All*	IMR107	1031	1066	1127
8	OMH 14-55 (CAH1537)	OAUT Bhubaneswar	All*	IMR108	1017	1093	1108
9	SYN616734	SYNGENTA	All*	IMR109	1027	1059	1109
10	PM16103L	PHI Seed Ltd.	All*	IMR110	1007	1075	1128
11	VNR 3Y069	VNR SEED PVT. LTD.	All*	IMR111	1003	1054	1143
12	KH-16-149	K.G.S.C.Pvt.Lim	All*	IMR112	1045	1084	1144
13	JKMH 4152	JK seeds	All*	IMR113	1028	1085	1136
14	JH 13278	PAU Ludhiana	All*	IMR114	1009	1082	1123
15	MM9333	METAHELIX	All*	IMR115	1021	1067	1121
16	KMH-5022	Kaveri deed company limite	All*	IMR116	1037	1096	1141
17	MM 2030	Mahindra Agro solutions.	All*	IMR117	1019	1056	1129
18	OMH 14-16 (CAH1424)	OAUT Bhubaneswar	All*	IMR118	1020	1050	1103
19	C.P 888	C.P Seed India Ltd.	All*	IMR119	1040	1070	1142
20	DH-300	Pantnagar	All*	IMR120	1004	1072	1145
21	X-7	STAR AGROTECH PVT.L	All*	IMR121	1030	1077	1101
22	PM16101L	PHI Seed Ltd.	All*	IMR122	1022	1057	1107
23	MM 2626	Mahindra Agro solutions.	All*	IMR123	1016	1053	1117
24	GH-1436	Dharwad	All*	IMR124	1012	1081	1116
25	IMHBG-2016-3	RMR & SPC Begusarai	All*	IMR125	1035	1062	1133
26	GK3204	Ganga Kaveri Seeds Pvt. Lt	All*	IMR126	1048	1064	1102
27	HT 16607	Hytech Seed India Private L	All*	IMR127	1013	1058	1137
28	X-6	STAR AGROTECH PVT.L	All*	IMR128	1032	1060	1122
29	CMH11-591	TNAU	All*	IMR129	1034	1055	1100
30	VNR 33051	VNR SEED PVT. LTD.	All*	IMR130	1015	1068	1105
31	CCH 167	Rhini Seeds Private limited.	All*	IMR131	1042	1061	1124
32	KMH-24752	Kaveri deed company limite	All*	IMR132	1005	1069	1132
33	OMH 1462 (CAH 142)	OAUT Bhubaneswar	All*	IMR133	1043	1080	1112
34	KH-POLO Gold	K.G.S.C.Pvt.Lim	All*	IMR134	1018	1090	1126
35	TMMH 838	TRIMURTI PLANT SCIEN	All*	IMR135	1047	1073	1113
36	ADV 9233	Advanta India Limited	All*	IMR136	1002	1089	1115
37	OMH 14-27 (CAH1511)	OAUT Bhubaneswar	All*	IMR137	1033	1095	1131
38	HM16305	METAHELIX	All*	IMR138	1023	1094	1120
39	CMH11-586	TNAU	All*	IMR139	1036	1065	1135
40	DKC 9178(IQ8623)	Monsanto India Ltd.	All*	IMR140	1024	1051	1118
41	PM16104L	PHI Seed Ltd.	All*	IMR141	1014	1088	1119
42	Star-9	STAR AGROTECH PVT.L	All*	IMR142	1039	1052	1099
43	PM16102L	PHI Seed Ltd.	All*	IMR143	1011	1087	1110
44	DH-301	Pantnagar	All*	IMR144	1026	1076	1130
45	BH 414012	ARI Hyderabad	All*	IMR145	1046	1098	1140
46	BLH 114	Bisco Bio Sciences Pvt.Ltd.	All*	IMR146	1006	1086	1114
47	BIO 9682 (C)	Bio Seed Research India Lt	All*	IMR147	1008	1091	1134
48	CMH 08-287 (C)	TNAU,Coimbatore	All*	IMR148	1010	1092	1147
49	CMH 08-282 (C)	TNAU,Coimbatore	All*	IMR149	1001	1063	1139

All*= All Zones except Northern Hill Zone (NHZ) (Zone-I)

Trial. 61 (Late)-B

Trial No. : Late Maturity (NIVT) (61) B
Year (Season): 2016-Kharif
Replication : 3
Row No. : 2
Row Length: 4 mts.

Locations: Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Sabour, Dharwad, Mandya, Karimnagar, Hyderabad, Coimbatore, Dharwad, Mandya, Karimnagar, Hyderabad, Coimbatore, Vagarai, Kolhapur, Rahuri, Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua

E.No.	Name	Institute/Organization	Zone	IIMR Code	R1	R2	R3
1	RMH 1601	Rasi seeds pvt.Ltd.	All*	IMR151	1179	1201	1291
2	JH 13337	PAU Ludhiana	All*	IMR152	1158	1225	1283
3	IMH 1528	IIMR New Delhi	All*	IMR153	1188	1217	1263
4	AH-7210	IARI-RRC, Dharwad	All*	IMR154	1191	1207	1259
5	JH 13094	PAU Ludhiana	All*	IMR155	1162	1205	1285
6	MAH-14-5	Mandya	All*	IMR156	1185	1224	1262
7	NS 8001	Namdhari Seeds Pvt.Ltd.	All*	IMR157	1178	1236	1268
8	JH 15004	PAU Ludhiana	All*	IMR158	1171	1204	1286
9	IMH 1526	IIMR New Delhi	All*	IMR159	1182	1235	1260
10	BIO 716	BIO SEEDS	All*	IMR160	1151	1215	1252
11	IMH 1602	IIMR New Delhi	All*	IMR161	1170	1244	1270
12	JH 15135	PAU Ludhiana	All*	IMR162	1184	1233	1274
13	JH 13227	PAU Ludhiana	All*	IMR163	1154	1221	1292
14	AH-1602	IARI-New Delhi	All*	IMR164	1165	1222	1289
15	MH 25	TCA Dholi	All*	IMR165	1199	1216	1278
16	NRI MH4	NRI Agritech Pvt.Ltd.	All*	IMR166	1193	1220	1254
17	AH-7188	IARI-RRC, Dharwad	All*	IMR167	1183	1230	1250
18	QMH-1478	MIP GTC Kolhapur	All*	IMR168	1173	1242	1272
19	IMH 1610	IIMR New Delhi	All*	IMR169	1187	1239	1297
20	NS 8181	Namdhari Seeds Pvt.Ltd.	All*	IMR170	1156	1241	1277
21	IMH 1533	IIMR New Delhi	All*	IMR171	1195	1227	1255
22	IMH 1527	IIMR New Delhi	All*	IMR172	1189	1232	1290
23	SVMH-55	Shakti Vardhak Hybrid Seeds	All*	IMR173	1164	1243	1294
24	JH 15106	PAU Ludhiana	All*	IMR174	1159	1218	1284
25	BIO 274	BIO SEEDS	All*	IMR175	1167	1248	1257
26	QMH-1435	MIP GTC Kolhapur	All*	IMR176	1180	1202	1280
27	AH-1601	IARI-New Delhi	All*	IMR177	1161	1246	1271
28	JH 13023	PAU Ludhiana	All*	IMR178	1186	1212	1267
29	WH-1095	AICMIP MPUA&T Banswara	All*	IMR179	1194	1247	1249
30	DAS-MH-113	Dow AgroSciences	All*	IMR180	1176	1210	1279
31	MMH 1302	MSSC Ltd.	All*	IMR181	1155	1203	1288
32	QMH-1472	MIP GTC Kolhapur	All*	IMR182	1153	1226	1251
33	CAH-1533	MSSC Ltd.	All*	IMR183	1197	1223	1258
34	RMH 815	Rasi seeds pvt.Ltd.	All*	IMR184	1152	1219	1265
35	JH 15080	PAU Ludhiana	All*	IMR185	1169	1209	1282
36	IMH 1608	IIMR New Delhi	All*	IMR186	1172	1245	1296
37	IMH 1547	IIMR New Delhi	All*	IMR187	1157	1228	1276
38	JH 15130	PAU Ludhiana	All*	IMR188	1163	1208	1266
39	JH 15011	PAU Ludhiana	All*	IMR189	1177	1237	1253
40	IMH 1601	IIMR New Delhi	All*	IMR190	1166	1231	1269
41	MH 26	TCA Dholi	All*	IMR191	1198	1240	1273
42	QMH-1470	MIP GTC Kolhapur	All*	IMR192	1174	1229	1287
43	BIO 509	BIO SEEDS	All*	IMR193	1168	1200	1281
44	AH-7005	IARI-RRC, Dharwad	All*	IMR194	1181	1211	1261
45	IMH 1607	IIMR New Delhi	All*	IMR195	1192	1238	1293
46	DAS-MH-112	Dow AgroSciences	All*	IMR196	1190	1213	1256
47	BIO 9682 (C)	Bio Seed Research India Ltd.	All*	IMR197	1196	1234	1264
48	CMH 08-287 (C)	TNAU,Coimbatore	All*	IMR198	1160	1206	1295
49	CMH 08-282 (C)	TNAU,Coimbatore	All*	IMR199	1175	1214	1275

All*= All Zones except Northern Hill Zone (NHZ) (Zone-I)

Trial. 62 (Medium)-A

Trial No. : Medium Maturity (NIVT) (62)A
Year (Season): 2016-Kharif
Replication : 3
Row No. : 2
Row Length: 4 mts.

Locations: Almora, Bajaura, Barapani, Kangra, Udhampur, Sirinagar, Gossaigoan (Jorhat), Imphal Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Sabour, Dharwad, Mandya, Karimnagar, Hyderabad, Coimbatore, Vagarai, Kolhapur, Rahuri, Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua

E.No.	Name	Institute/Organization	Zone	IIMR Code	R1	R2	R3
1	KMH-14-73	SAREC, Kangra	All	IMR201	1310	1358	1407
2	JKMH 4157	JK seeds	All	IMR202	1323	1346	1417
3	JKMH 1414	JK seeds	All	IMR203	1337	1366	1389
4	Gagan	STAR AGROTECH PVT.LT	All	IMR204	1302	1350	1404
5	IMHBG-2016-6	RMR & SPC Begusarai	All	IMR205	1329	1362	1381
6	BLH 112	Bisco Bio Sciences Pvt.Ltd.	All	IMR206	1315	1353	1396
7	WH-2002	AICMIP MPUA&T Banswar	All	IMR207	1307	1345	1420
8	DH-291	Pantnagar	All	IMR208	1317	1369	1415
9	OMH 14-30(CAH 1514)	OAUT Bhubaneswar	All	IMR209	1311	1368	1392
10	MM9222	METAHELIX	All	IMR210	1314	1344	1416
11	WH-1003	AICMIP MPUA&T Banswar	All	IMR211	1309	1365	1386
12	FCH-11267	FOLIAGE	All	IMR212	1316	1343	1393
13	DH-303	Pantnagar	All	IMR213	1335	1348	1382
14	BLH 111	Bisco Bio Sciences Pvt.Ltd.	All	IMR214	1325	1352	1414
15	IQ8712	Monsanto India Ltd.	All	IMR215	1301	1379	1412
16	OMH 14-18(CAH 1519)	OAUT Bhubaneswar	All	IMR216	1340	1377	1394
17	KMH-14-37	SAREC, Kangra	All	IMR217	1304	1378	1399
18	IQ8627	Monsanto India Ltd.	All	IMR218	1327	1360	1409
19	GH-150114(CAH1414)	UAS Dharwad	All	IMR219	1320	1380	1397
20	VaMH 14020	Vagarai	All	IMR220	1330	1371	1387
21	GH-150125(CAH1525)	UAS Dharwad	All	IMR221	1312	1361	1383
22	UDMH-129	SKUAST Jammu	All	IMR222	1334	1351	1395
23	IQ8319	Monsanto India Ltd.	All	IMR223	1308	1364	1402
24	IMHBG-2016-4	RMR & SPC Begusarai	All	IMR224	1303	1372	1400
25	UDMH-128	SKUAST Jammu	All	IMR225	1321	1357	1405
26	GOLD-1155	Green Gold Seed Pvt.Ltd.	All	IMR226	1339	1363	1390
27	BLH 113	Bisco Bio Sciences Pvt.Ltd.	All	IMR227	1305	1376	1384
28	IMHBG-2016-2	RMR & SPC Begusarai	All	IMR228	1332	1359	1401
29	IMHBG-2016-5	RMR & SPC Begusarai	All	IMR229	1319	1374	1410
30	DH-302	Pantnagar	All	IMR230	1306	1354	1408
31	WH-2006	AICMIP MPUA&T Banswar	All	IMR231	1313	1347	1411
32	IQ7802	Monsanto India Ltd.	All	IMR232	1331	1370	1413
33	IMHBG-2016-1	RMR & SPC Begusarai	All	IMR233	1322	1356	1398
34	IIMRNH 2016-1	IIMR Ludhiana	All	IMR234	1338	1375	1391
35	Kranthi	STAR AGROTECH PVT.LT	All	IMR235	1318	1355	1406
36	GH-150141(CAH1441)	UAS Dharwad	All	IMR236	1336	1367	1418
37	CMH 08-292 (C)	TNAU,Coimbatore	All	IMR237	1326	1373	1385
38	BIO 9544 (C)	Bio Seed Research India Ltd.	All	IMR238	1333	1341	1388
39	HM-9 (Filler)	CCS HAU,Uchani,	All	IMR239	1324	1349	1403
40	DHM 121 (C)	ANGRAU, Hyderabad	All	IMR240	1328	1342	1419

Trial. 62 (Medium)-B

Trial No. : Medium Maturity (NIVT) (62)B
Year (Season): 2016-Kharif
Replication : 3
Row No. : 2
Row Length: 4 mts.

Locations: Almora, Bajaura, Barapani, Kangra, Udhampur, Sirinagar, Gossaigoan (Jorhat), Imphal Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Sabour, Dharwad, Mandya, Karimnagar, Hyderabad, Coimbatore, Vagarai, Kolhapur, Rahuri, Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua

E.No.	Name	Institute/Organization	Zone	IIMR Code	R1	R2	R3
1	LMH 616	CSKHPKV, HAREC Bajaura.	All	IMR245	1431	1491	1533
2	IMH 1607	IIMR New Delhi	All	IMR246	1446	1493	1546
3	IMH 1606	IIMR New Delhi	All	IMR247	1449	1475	1511
4	IMH 1526	IIMR New Delhi	All	IMR248	1429	1474	1545
5	HKH 354	CCS HAU RRS Karnal	All	IMR249	1436	1480	1528
6	IMH 1609	IIMR New Delhi	All	IMR250	1443	1487	1540
7	DMRH 1419	IIMR New Delhi	All	IMR251	1439	1492	1518
8	LMH 916	CSKHPKV, HAREC Bajaura.	All	IMR252	1464	1498	1529
9	LMH 816	CSKHPKV, HAREC Bajaura.	All	IMR253	1452	1467	1523
10	IMH 1604	IIMR New Delhi	All	IMR254	1444	1504	1536
11	MH 23	TCA Dholi	All	IMR255	1425	1506	1525
12	IMH 1605	IIMR New Delhi	All	IMR256	1458	1495	1526
13	LMH 1116	CSKHPKV, HAREC Bajaura.	All	IMR257	1461	1499	1535
14	IMH 1608	IIMR New Delhi	All	IMR258	1437	1482	1510
15	EH-2906	MPUAT Udhipur-313001	All	IMR259	1430	1470	1519
16	LMH 716	CSKHPKV, HAREC Bajaura.	All	IMR260	1459	1489	1509
17	VEH-16-1	BHU Varanasi	All	IMR261	1451	1477	1531
18	IMH 1601	IIMR New Delhi	All	IMR262	1465	1472	1520
19	HKH 355	CCS HAU RRS Karnal	All	IMR263	1432	1486	1515
20	MMH 1403	MSSC Ltd.	All	IMR264	1434	1488	1544
21	HKH 356	CCS HAU RRS Karnal	All	IMR265	1463	1497	1543
22	KH-2001 Gold	K.G.S.C.Pvt.Lim	All	IMR266	1426	1490	1530
23	IMH 1602	IIMR New Delhi	All	IMR267	1427	1469	1512
24	BH 414176	ARI Hyderabad	All	IMR268	1440	1503	1514
25	CCH 9999	Rhini Seeds Private limited.	All	IMR269	1438	1483	1521
26	LMH 1216	CSKHPKV, HAREC Bajaura.	All	IMR270	1450	1473	1547
27	DMRH 1410	IIMR New Delhi	All	IMR271	1445	1484	1542
28	BH 414351	ARI Hyderabad	All	IMR272	1433	1468	1527
29	HKH 353	CCS HAU RRS Karnal	All	IMR273	1428	1501	1539
30	LMH 1016	CSKHPKV, HAREC Bajaura.	All	IMR274	1447	1494	1524
31	INDAM-1122	Indo-American Hybrid Seeds (i	All	IMR275	1462	1485	1541
32	IMH 1603	IIMR New Delhi	All	IMR276	1453	1466	1507
33	DAS-MH-310	Dow AgroSciences	All	IMR277	1442	1496	1522
34	IMH 1527	IIMR New Delhi	All	IMR278	1441	1479	1534
35	IMH 1533	IIMR New Delhi	All	IMR279	1455	1502	1508
36	AH-7080	IARI-RRC, Dharwad	All	IMR280	1454	1478	1516
37	MH 24	TCA Dholi	All	IMR281	1460	1500	1538
38	CMH 08-292 (C)	TNAU,Coimbatore	All	IMR282	1456	1505	1532
39	BIO 9544 (C)	Bio Seed Research India Ltd.H	All	IMR283	1457	1476	1537
40	HM-9 (Filler)	CCS HAU,Uchani,	All	IMR284	1435	1481	1517
41	DHM 121 (BH 41009)	ANGRAU, Hyderabad	All	IMR285	1448	1471	1513

Trial. 63-64 (Early+Ex early)

Trial No. : Early+Ex early Maturity (NIVT) (63+64)
Year (Season): 2016-Kharif
Replication : 3
Row No. : 2
Row Length: 4 mts.

Locations: Almora, Bajaura, Barapani, Kangra, Udhampur, Sirinagar, Gossaigoan, Imphal Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Sabour, Dharwad, Mandya, Karimnagar, Hyderabad, Coimbatore, Vagarai, Kolhapur, Rahuri, Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua

E.No.	Name	Institute/Organization	Zone	IIMR Code	R1	R2	R3
	Early maturity						
1	AH-7007	IARI-RRC, Dharwad	All	IMR290	1564	1593	1646
2	FH 3763	VPKAS Almora	All	IMR291	1573	1596	1653
3	KH-102	K.G.S.C.Pvt.Lim	All	IMR292	1567	1606	1661
4	IH-0901	Godhara Gujarat	All	IMR293	1558	1612	1656
5	IH-0702	Godhara Gujarat	All	IMR294	1585	1621	1632
6	KMH-14-50	SAREC, Kangra	All	IMR295	1578	1594	1631
7	DMRH 1417	IIMR New Delhi	All	IMR296	1577	1603	1664
8	HKH 351	CCS HAU RRS Karnal	All	IMR297	1581	1591	1647
9	KMH-14-46	SAREC, Kangra	All	IMR298	1568	1605	1655
10	AH-7154	IARI-RRC, Dharwad	All	IMR299	1560	1624	1640
11	JH 31816	PAU Ludhiana	All	IMR300	1582	1610	1638
12	JH 31784	PAU Ludhiana	All	IMR301	1571	1598	1648
13	FH 3768	VPKAS Almora	All	IMR302	1579	1623	1660
14	BAUMC-5	Ranchi	All	IMR303	1572	1608	1651
15	JH 31783	PAU Ludhiana	All	IMR304	1583	1604	1639
16	KDMH-105	SKUAST Kashmir	All	IMR305	1551	1627	1642
17	MH 21	TCA Dholi	All	IMR306	1566	1630	1669
18	JH 31780	PAU Ludhiana	All	IMR307	1552	1599	1643
19	HKH 352	CCS HAU RRS Karnal	All	IMR308	1584	1614	1658
20	WH-2093	AICMIP MPUA&T Bansw	All	IMR309	1554	1609	1663
21	AH-7204	IARI-RRC, Dharwad	All	IMR310	1586	1620	1668
22	WH-2096	AICMIP MPUA&T Bansw	All	IMR311	1575	1600	1644
23	MH 22	TCA Dholi	All	IMR312	1555	1611	1645
24	JH 31794	PAU Ludhiana	All	IMR313	1559	1607	1650
25	JH 31801	PAU Ludhiana	All	IMR314	1576	1626	1637
26	IH-1204	Godhara Gujarat	All	IMR315	1553	1628	1636
27	KMH-14-55	SAREC, Kangra	All	IMR316	1561	1601	1670
28	DH-304	Pantnagar	All	IMR317	1590	1595	1666
29	AH-7009R	IARI-RRC, Dharwad	All	IMR318	1557	1615	1662
30	AH9002	IARI New Delhi	All	IMR319	1570	1616	1659
31	IH-0903	Godhara Gujarat	All	IMR320	1588	1597	1657
32	PMH5 (C)	PAU Ludhiana	All	IMR321	1556	1619	1667
33	BIO605 (C)	Bio Seed	All	IMR322	1562	1592	1635
34	DKC 7074 (C)	Mansanto	All	IMR323	1589	1618	1649
	Extra Early						
35	FH 3765	VPKAS Almora	All	IMR324	1565	1613	1665
36	FH 3771	VPKAS Almora	All	IMR325	1569	1617	1634
37	DH-305	Pantnagar	All	IMR326	1580	1602	1654
38	BAUM-4	Ranchi	All	IMR327	1563	1625	1652
39	Vivek Hybrid 51 (C)	VPKAS Almora	All	IMR328	1587	1622	1641
40	Vivek Hybrid 45 (C)	VPKAS Almora	All	IMR329	1574	1629	1633

Trial. QPM I-II-III

Trial No. : QPM I-II-III
Year (Season): 2016 (Kharif)
Replication : 3
Row No. : 4
Row Length: 4 mts.

Locations: Almora, Bajaura, Barapani, Kangra, Imphal, Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Sabour, Kalyani Dharwad, Mandya, Karimnagar, Hyderabad, Coimbatore, Kolhapur, Rahuri, Udaipur, Banswara, Chindwara, Ambikapur, Godhra

E.No.	Name	Institute/orga.	Trial No.	Zone	IIMR Code	R1	R2	R3
1	IIMRQPMH 1608	IIMR Ludhiana	QPM I	All	IMR331	1696	1712	1732
2	REHQ2014-11	KANPUR	QPM I	All	IMR332	1691	1716	1736
3	FQH 106	VPKAS Almora	QPM-II	I,II,V	IMR333	1687	1704	1746
4	IIMRQPMH 1601	IIMR Ludhiana	QPM I	All	IMR334	1683	1709	1753
5	IIMRQPMH 1502	IIMR Ludhiana	QPM II	I,II,IV	IMR335	1678	1718	1755
6	IIMRQPMH 1605	IIMR Ludhiana	QPM I	All	IMR336	1680	1706	1750
7	IIMRQPMH 1606	IIMR Ludhiana	QPM I	All	IMR337	1694	1702	1729
8	VEHQ-16-1	BHU Varanasi	QPM I	All	IMR338	1690	1727	1744
9	IIMRQPMH 1607	IIMR Ludhiana	QPM I	All	IMR339	1689	1708	1740
10	IIMRQPMH 1603	IIMR Ludhiana	QPM I	All	IMR340	1698	1707	1735
11	BQPMH 16	ARI Hyderabad	QPM I	All	IMR341	1681	1705	1733
12	IIMRQPMH 1504*	IIMR Ludhiana	QPM II	II	IMR342	1675	1719	1749
13	IMHQPM 1530	IIMR New Delhi	QPM I	All	IMR343	1699	1710	1739
14	IIMRQPMH 1604	IIMR Ludhiana	QPM I	All	IMR344	1701	1703	1752
15	IIMRQPMH 1610	IIMR Ludhiana	QPM I	All	IMR345	1693	1717	1730
16	IIMRQPMH 1609	IIMR Ludhiana	QPM I	All	IMR346	1679	1715	1748
17	QPM-MH-27	TCA Dholi	QPM I	All	IMR347	1692	1720	1734
18	IIMRQPMH 1602	IIMR Ludhiana	QPM I	All	IMR348	1700	1723	1745
19	KDQH-51	SKUAST Kashmir	QPM-I	All	IMR349	1684	1725	1738
20	IIMRQPMH 1508	IIMR Ludhiana	QPM II	II	IMR350	1695	1726	1731
21	IIMRQPMH 1501	IIMR Ludhiana	QPM II	III	IMR351	1685	1724	1747
22	Pratap QPM Hybrid 1 (	MPUA & T, Udaipur	QPM I	All	IMR352	1686	1713	1742
23	Vivek QPM 9 (C)	VPKAS Almora	QPM I	All	IMR353	1682	1722	1743
24	HQPM 1 (C)	CCS HAU,Uchani	QPM I	All	IMR354	1688	1711	1741
25	HQPM 4 (C)	CCS HAU,Uchani	QPM I	All	IMR355	1676	1714	1751
26	HQPM 5 (C)	CCS HAU,Uchani	QPM I	All	IMR356	1697	1721	1737
27	HQPM 7 (C)	CCS HAU,Uchani	QPM I	All	IMR357	1677	1728	1754

* Tetsed only in zone-II (NWPZ): filler have been used for rest of the zones

Trial. SC I-II-III

Trial No. : SC I-II-III
Year (Season): 2016 (Kharif)
Replication : 3
Row No. : 4
Row Length: 4 mts.
Locations: Almora, Bajaura, Barapani, Kangra, Imphal, Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Sabour, Kalyani, Mandya, Karimnagar, Hyderabad, Coimbatore, Kolhapur, Rahuri, Udaipur, Banswara, Chindwara, Ambikapur, Godhra

E.No.	Name	Institute/orga.	Trial No.	Zone	IIMR Code	R1	R2	R3
1	BSCH 6	ARI Hyderabad	SC III	All	IMR361	1771	1783	1787
2	ASKH 4	IARI New Delhi	SC-II	All	IMR362	1766	1785	1790
3	Madhula	Mahodaya Hybri	SC I	All	IMR363	1768	1782	1796
4	BIO 4043	BIO SEEDS	SC I	All	IMR364	1764	1774	1799
5	MITHAS	Nongwoo seed Ir	SC I	All	IMR365	1762	1781	1793
6	FSCH 55*	VPKAS Almora	SC III	NHZ(Z-I), NEPZ(ZIII	IMR366	1767	1777	1792
7	ASKH 6	IARI New Delhi	SC-I	All	IMR367	1761	1778	1789
8	FSCH 75	VPKAS Almora	SC II	All	IMR368	1765	1779	1788
9	FSCH 91	VPKAS Almora	SC I	All	IMR369	1770	1784	1794
10	VEHS-16-1	BHU Varanasi	SC I	All	IMR370	1763	1775	1791
11	Misthi (C)	NUZIVEEDU SI	SC I	All	IMR371	1773	1780	1797
12	Madhuri Sweet Corn (C)	PJTSAU ARI Hy	SC I	All	IMR372	1769	1786	1795
13	Priya Sweet Corn (C)	PJTSAU ARI Hy	SC I	All	IMR373	1772	1776	1798

Note: Filler have been used in rest of zones in cases where entries are proposed for specified zones by Breeders (mentioned with star as astrix)

Trial. BC I-II-III

Trial No. : BC I-II-III
Year (Season): 2016 (Kharif)
Replication : 3
Row No. : 4
Row Length: 4 mts.
Locations: Almora, Bajaura, Barapani, Kangra, Imphal, Ludhiana, Karnal, Delhi, Kanpur, Pantnagar Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Sabour, Kalyani, Dharwad, Mandya, Karimnagar, Hyderabad, Coimbatore, Kolhapur, Rahuri, Udaipur, Banswara, Chindwara, Ambikapur, Godhra

E.No.	Name	Institute/orga.	Trial No.	Zone	IIMR Code	R1	R2	R3
1	IMHB 1538	IIMR New Delhi	BC II	I,III,V	IMR381	1814	1825	1839
2	IMHB 1525	IIMR New Delhi	BC II	I,III,V	IMR382	1809	1820	1833
3	IMHB 1531	IIMR New Delhi	BC II	I,III,IV	IMR380	1805	1819	1838
4	AH-7043	IARI-RRC, Dharw	BC I	All	IMR377	1812	1828	1836
5	IMHB 1539	IIMR New Delhi	BC II	I,III,V	IMR383	1803	1821	1829
6	AH-5021	IARI-New Delhi	BCII	V	IMR378	1810	1816	1835
7	IMHB 1537	IIMR New Delhi	BC II	I,II,IV	IMR384	1802	1815	1830
8	GAYMH-1	Godhara Gujarat	BC II	I,V	IMR375	1808	1817	1831
9	IMHB 1532	IIMR New Delhi	BC II	II,III,V	IMR386	1801	1824	1837
10	IMHB 1529	IIMR New Delhi	BC II	I,II,III,V	IMR385	1804	1818	1834
11	BVM-2	Ranchi	BC III	I,III,V	IMR376	1806	1827	1841
12	MBC 11-15	TCA Dholi	BC II	All	IMR387	1807	1822	1832
13	DMRHB 1305	IIMR New Delhi	BC II	I,II	IMR379	1813	1826	1842
14	HM 4 (C)	HAU	BC	All	IMR388	1811	1823	1840

Trial. PC I-II-III

Trial No. : PC I-II-III
Year (Season): 2016 (Kharif)
Replication : 3
Row No. : 4
Row Length: 4 mts.

Locations: Almora, Bajaura, Barapani, Kangra, Imphal, Ludhiana, Karnal, Delhi, Kanpur, Pantnagar Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Sabour, Kalyani, Dharwad, Mandya, Karimnagar, Hyderabad, Coimbatore, Kolhapur, Rahuri, Udaipur, Banswara, Chindwara, Ambikapur, Godhra

E.No.	Name	Institute/orga.	Trial No.	Zone	IIMR Code	R1	R2	R3
1	IMHP-1535	IIMR New Delhi	PC II	All	IMR391	1853	1877	1882
2	MPC 1-15	TCA Dholi	PC II	All	IMR392	1855	1878	1892
3	Pop corn	Sri Jaya shree Food Products	PC I	All	IMR393	1852	1865	1887
4	IHPC-1203	Godhara Gujarat	PC I	All	IMR394	1854	1868	1889
5	ROBUST 265	SABAR AGRO SEEDS	PC I	All	IMR395	1857	1870	1879
6	IMHP 1540	IIMR New Delhi	PC II	II,III,V	IMR396	1858	1867	1888
7	DPCH-306	Pantnagar	PC I	All	IMR397	1863	1875	1886
8	ROBUST 427	SABAR AGRO SEEDS	PC I	All	IMR398	1860	1876	1881
9	AP2202	SABAR AGRO SEEDS	PC I	All	IMR399	1851	1874	1880
10	DMRHP-1402	IIMR New Delhi	PC III	II,III,V	IMR400	1859	1873	1884
11	AP6005	SABAR AGRO SEEDS	PC I	All	IMR401	1861	1871	1883
12	IHPC-1201	Godhara Gujarat	PC I	All	IMR402	1856	1872	1890
13	SJPC1	SKUAST Jammu	PC II	All	IMR403	1864	1869	1885
14	VL Amber Popcorn (C)	Almora	PC	All	IMR404	1862	1866	1891

Trial. 65 - NWPZ (Z-II) AVT-I (Late)

Trial No. : 65-NWPZ (Z - II) Late Maturity (AVT-I)
Year (Season): 2016-Kharif
Replication : 3
Row No. : 4
Row Length: 4 mts.

Locations: Ludhiana, Karnal, Kanpur, Pantnagar, Delhi, Hisar,Aligarh, Jhansi, Gurdaspur, Kapurthala Kapurthala

E. No.	Name	Institute/orga.	Trial n	Zone	IIMR Code	R1	R2	R3
1	KMH-2852	Kaveri deed company lim	65	NWPZ	IMR 410	1905	1910	1927
2	PM15103L	PHI Seed Ltd.	65	NWPZ	IMR 411	1909	1914	1923
3	PM15104L	PHI Seed Ltd.	65	NWPZ	IMR 412	1901	1913	1920
4	C.P 802	C.P Seed India Ltd.	65	NWPZ	IMR 413	1903	1915	1925
5	BL 103	Bisco Bio Sciences Pvt.L	65	NWPZ	IMR 414	1907	1917	1922
6	SMH-3902	Shakthi Seeds pvt. Ltd.	65	NWPZ	IMR 415	1904	1916	1921
7	PMH 1 (C)	PAU Ludhiana	65	NWPZ	IMR 416	1908	1911	1919
8	Seed tech 2324(C)	Bisco Bio Sciences Pvt.L	65	NWPZ	IMR 417	1902	1918	1924
9	Bio -9681(C)	BIO SEEDS LTD.	65	NWPZ	IMR 418	1906	1912	1926

Trial. 65 - NEPZ (Z-III) (AVT-I Late)

Trial No. : 65 NEPZ (Z-III) Late Maturity (AVT-I)
Year (Season): 2016-Kharif
Replication : 3
Row No. : 4
Row Length: 4 mts.

Locations: Dholi, Ranchi, Bhubneshwar, Varanasi, Baharaich, Sabour, Kalyani, Medinapur, Koraput, RRS Madhopur, Chappra

E. No.	Name	Institute/orga.	Trial n	Zone	IIMR Code	R1	R2	R3
1	CMH12-686	TNAU	65	NEPZ	IMR420	1935	1941	1952
2	DKC9163 (IP8703)	Monsanto India Ltd.	65	NEPZ	IMR421	1931	1943	1951
3	DKC8161 (IP8570)	Monsanto India Ltd.	65	NEPZ	IMR422	1938	1946	1949
4	VNR-31565 (IMR-143)	VNR SEED PVT. LTD.	65	NEPZ	IMR423	1934	1944	1950
5	ADV 7022	Advanta India Limited	65	NEPZ	IMR424	1932	1945	1954
6	PMH 1 (C)	PAU Ludhiana	65	NEPZ	IMR425	1936	1940	1947
7	Seed tech 2324(C)	Bisco Bio Sciences Pvt.L	65	NEPZ	IMR426	1937	1939	1953
8	Bio -9681(C)	BIO SEEDS LTD.	65	NEPZ	IMR427	1933	1942	1948

Trial. 65,69 - PZ (Z-IV) (AVT-I, II Late)

Trial No. : 65, 69 PZ (Z - IV) Late Maturity (AVT-I, II)
Year (Season): 2016-Kharif
Replication : 3
Row No. : 6
Row Length: 4 mts.

Locations: Hyderabad, Sehgal Founadation ICRISAT, Karimnagar, VRDC KSSC Dharwad, Kolhapur, Dharwad, Mandya, Vagarai, Coimbatore, ARS Devihosur, Almel, ARS Belavatagi, Dhule, Parbhani, Arbahvi,Niphad Nasik, Rahuri

E. No.	Name	Institute/orga.	Trial n	Zone	IIMR Code	R1	R2	R3
	AVT-I Late							
1	CMH12-688	TNAU	65	PZ	IMR431	1969	1971	1988
2	DKC9167 (IP8708)	Monsanto India Ltd.	65	PZ	IMR432	1961	1976	1982
3	ADV 7022	Advanta India Limited	65	PZ	IMR433	1965	1974	1983
4	DAS-MH-111	Dow AgroSciences	65	PZ	IMR434	1963	1972	1989
	AVT-II- Late							
5	HT 51412616	Hytech Seed India Private	69	PZ	IMR435	1962	1977	1987
6	DMH192	METAHELIX	69	PZ	IMR436	1968	1978	1984
7	ADV 0990296	Advanta	69	PZ	IMR437	1966	1973	1985
8	Seed tech 2324(C)	Bisco Bio Sci	69	PZ	IMR438	1967	1979	1981
9	Bio -9681(C)	BIO SEEDS LTD.	69	PZ	IMR439	1964	1980	1990
10	PMH 1 (C)	PAU Ludhiana	69	PZ	IMR440	1970	1975	1986

Trial. 65,69 -CWZ (Z-V) (AVT-I,II Late)

Trial No. : 65,69 CWZ (Z - V) Late Maturity (AVT-I, II)
Year (Season): 2016-Kharif
Replication : 3
Row No. : 6
Row Length: 4 mts.

Location Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabua, Bhiloda, AAR Dahod, Rajpur, RARS Ujjain, ZARS Indore, ARS Kota, Jagadalpur, Chittarkoot

E. No.	Name	Institute/orga.	Trial n	Zone	IIMR Code	R1	R2	R3
	AVT-I Late							
1	CMH12-686	TNAU	65	CWZ	IMR445	1998	2007	2015
2	DKC9164 (IP9002)	Monsanto India Ltd.	65	CWZ	IMR446	1995	2011	2019
3	SYN516753	SYNGENTA	65	CWZ	IMR447	2003	2009	2018
	AVT-II Late							
4	DKC9151(IN8902)	Monsanto India Ltd.	69	CWZ	IMR448	1999	2008	2021
5	ADV 0990296	Advanta	69	CWZ	IMR449	1996	2006	2017
6	KH-2192	K.G.S.C.Pvt.Lim	69	CWZ	IMR450	1997	2005	2014
7	PMH 1 (C)	PAU Ludhiana	69	CWZ	IMR451	2002	2012	2016
8	Seed tech 2324(C)	Bisco Bio Sci	69	CWZ	IMR452	2000	2004	2013
9	Bio -9681(C)	BIO SEEDS LTD.	69	CWZ	IMR453	2001	2010	2020

Trial. 66 - NHZ(Z-I) (AVT-I Medium)

Trial No. : 66 NHZ (Z - I) Medium Maturity (AVT-I)
Year (Season): 2016-Kharif
Replication : 3
Row No. : 4
Row Length: 4 mts.
Location: Almora, Bajaura, Udhampur, Kangra, Bertin, Dhaulakuan, Barapani, Gossaiogaon, Imphal, Poonch, Rajouri

E. No.	Name	Institute/orga.	Trial no	Zone	IIMR Code	R1	R2	R3
1	KMH-13-5	SAREC, Kangra	66	NHZ	IMR461	2033	2039	2049
2	HM15207	METAHELIX	66	NHZ	IMR462	2037	2040	2048
3	Bio 9637(C)	BIO SEEDS LTD.	66	NHZ	IMR463	2036	2044	2046
4	HM9 (C)	CCS HAU RRS Karna	66	NHZ	IMR464	2035	2038	2050
5	PMH4-C	PAU Ludhiana	66	NHZ	IMR465	2032	2041	2045
6	Bio 9681-Filler	BIO SEEDS LTD.	66	NHZ	IMR466	2034	2042	2051
7	Seed Tech2324-Filler	Bisco BioSc	66	NHZ	IMR467	2031	2043	2047

Trial. 66, 70 NWPZ (Z-II) (AVT-I, II Medium)

Trial No. : 66, 70 NWPZ (Z - II) Medium Maturity (AVT-I, II)
Year (Season): 2016-Kharif
Replication : 3
Row No. : 6
Row Length: 4 mts.
Location: Ludhiana, Karnal, Kanpur, Pantnagar, Delhi, Hisar,Aligarh, Jhansi, Gurdaspur, Kapurthala

E. No.	Name	Institute/orga.	Trial no	Zone	IIMR Code	R1	R2	R3
	AVT-I Medium							
1	VaMH 12014	Vagarai	66	NWPZ	IMR471	2063	2068	2078
2	HM15206	METAHELIX	66	NWPZ	IMR472	2061	2072	2075
3	HM15207	METAHELIX	66	NWPZ	IMR473	2065	2070	2077
	AVT-II Medium							
4	C.P 201	C.P Seed India Ltd.	70	NWPZ	IMR474	2066	2074	2076
5	Bio 9637(C)	BIO SEEDS LTD.	70	NWPZ	IMR475	2064	2073	2080
6	HM9(C)	CCS HAU RRS Karna	70	NWPZ	IMR476	2067	2069	2079
7	PMH4-C	PAU Ludhiana	70	NWPZ	IMR477	2062	2071	2081

Trial. 66 - NEPZ (Z-III) (AVT-I Medium)

Trial No. : 66 NEPZ (Z - III) Medium Maturity (AVT-I)
Year (Season): 2016-Kharif
Replication : 3
Row No. : 4
Row Length: 4 mts.
Locations Dholi, Ranchi, Bhubneshwar, Varanasi, Baharaich, Sabour, Kalyani, Medinapur, Koraput, RRS Madhopur, Chappra

E. No.	Name	Institute/orga.	Trial no	Zone	IIMR Code	R1	R2	R3
1	VaMH 12014	Vagarai	66	NEPZ	IMR481	2093	2096	2111
2	HM15206	METAHELIX	66	NEPZ	IMR482	2087	2103	2113
3	JKMH 4103	JK seeds	66	NEPZ	IMR483	2085	2101	2107
4	BL 107	Bisco Bio Sciences Pv	66	NEPZ	IMR484	2094	2097	2105
5	IIMRNH 2015-4	IIMR Ludhiana	66	NEPZ	IMR485	2091	2104	2110
6	BL 106	Bisco Bio Sciences Pv	66	NEPZ	IMR486	2092	2100	2106
7	JH 13347	PAU Ludhiana	66	NEPZ	IMR487	2089	2098	2108
8	Bio 9637(C)	BIO SEEDS LTD.	66	NEPZ	IMR488	2088	2102	2112
9	HM9(C)	CCS HAU RRS Karna	66	NEPZ	IMR489	2086	2095	2109
10	PMH4-C	PAU Ludhiana	66	NEPZ	IMR490	2090	2099	2114

Trial. 66, 70 - PZ (Z-IV) (AVT-I, II Medium)

Trial No. : 66, 70 PZ (Z - IV) Medium Maturity (AVT-I, II)
Year (Season): 2016-Kharif
Replication : 3
Row No. : 6
Row Length: 4 mts.
Locations Hyderabad, Sehgal Founadation ICRISAT, Karimnagar, VRDC KSSC Dharwad, Kolhapur, Mandya, Vagarai, Coimbatore, ARS Devihosur, Almel, ARS Belavatagi, Dhule, Parbhani, Dharwad, Arbahvi Niphad Nasik, Rahuri

E. No.	Name	Institute/orga.	Trial no	Zone	IIMR Code	R1	R2	R3
	AVT-I Medium							
1	BL 106	Bisco Bio Sciences Pv	66	PZ	IMR495	2122	2128	2136
2	JH 13348	PAU Ludhiana	66	PZ	IMR496	2125	2132	2141
	AVT-II Medium							
3	JH 31605	PAU Ludhiana	70	PZ	IMR497	2124	2130	2137
4	JKMH 4848	JK seeds	70	PZ	IMR498	2123	2133	2138
5	Bio 9637(C)	BIO SEEDS LTD.	70	PZ	IMR499	2127	2131	2139
6	HM9(C)	CCS HAU RRS Karna	70	PZ	IMR500	2121	2129	2140
7	PMH4-C	PAU Ludhiana	70	PZ	IMR501	2126	2134	2135

Trial. 66 CWZ (Z-V) (Medium)

Trial No. :66 CWZ (Z -V) Medium Maturity (AVT-I Year)
Year (Season): 2016-Kharif
Replication : 3
Row No. : 4
Row Length: 4 mts.
Locations Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabua, Bhiloda, AAR Dahod, Rajpur, RARS Ujjain, ZARS Indore, ARS Kota,Jagadalpur,Chittarkoot

E. No.	Name	Institute/orga.	Trial no	Zone	IIMR Code	R1	R2	R3
1	BL 106	Bisco Bio Sciences Pv	66	CWZ	IMR505	2152	2162	2169
2	JH 13347	PAU Ludhiana	66	CWZ	IMR506	2154	2164	2170
3	JH 13348	PAU Ludhiana	66	CWZ	IMR507	2157	2163	2166
4	LMH 615	CSKHPKV, HAREC I	66	CWZ	IMR508	2151	2159	2167
5	Bio 9637(C)	BIO SEEDS LTD.	66	CWZ	IMR509	2153	2161	2168
6	HM9(C)	CCS HAU RRS Karna	66	CWZ	IMR510	2155	2160	2171
7	PMH4-C	PAU Ludhiana	66	CWZ	IMR511	2156	2158	2165

Trial. 67 NHZ (Z-I) (AVT-I Early)

Trial No. : 67 (NHZ) Z - I Early Maturity (AVT-I)
Year (Season): 2016-Kharif
Replication : 3
Row No. : 4
Row Length: 4 mts.
Locations: Almora, Bajaura, Udhampur, Kangra, Bertin, Dhaulakuan, Barapani, Gossaiogaon, Poonch, Rajouri

E. No.	Name	Institute/orga.	Trial no.	Zone	IIMR Code	R1	R2	R3
1	KMH-13-15	SAREC, Kangra	67	NHZ	IMR521	2186	2195	2204
2	FH 3754	VPKAS Almora	67	NHZ	IMR522	2189	2192	2203
3	JH 31785	PAU Ludhiana	67	NHZ	IMR523	2187	2193	2201
4	DMRH 1305	IIMR New Delhi	67	NHZ	IMR524	2191	2196	2205
5	PMH-5(C)	PAU Ludhiana	67	NHZ	IMR525	2185	2197	2202
6	Prakash(C)	PAU Ludhiana	67	NHZ	IMR526	2190	2198	2199
7	Seed Tech 2324 (Filler)	Bisco	67	NHZ	IMR527	2188	2194	2200

Trial. 67 PZ (Z-IV)(AVT-I, Early Maturity)

Trial No. : 67 PZ (Z -IV) Early Maturity (AVT-I Year)
Year (Season): 2016-Kharif
Replication : 3
Row No. : 4
Row Length: 4 mts.
Locations: Hyderabad, Shegal Founadation ICRISAT, Karimnagar, VRDC KSSC Dharwad, Kolhapur, Dharwad, Arbahvi, Mandya, Vagarai, Coimbatore, ARS Devihosur, Almel, ARS Belavatagi, Dhule, Parbhani, Niphad Nasik, Rahuri

E. No.	Name	Institute/orga.	Trial no.	Zone	IIMR Code	R1	R2	R3
1	AH-7006	IARI-RRC, Dharwa	67	PZ	IMR531	2214	2217	2226
2	JKMH 4222	JK seeds	67	PZ	IMR532	2213	2218	2225
3	PMH-5(C)	PAU Ludhiana	67	PZ	IMR533	2210	2221	2230
4	Prakash(C)	PAU Ludhiana	67	PZ	IMR534	2212	2222	2228
5	Seed Tech 2324 (Filler)	Bisco	67	PZ	IMR535	2211	2220	2229
6	PMH1(Filler)	PAU Ludhiana	67	PZ	IMR536	2216	2223	2227
7	PMH4 (Filler)	PAU Ludhiana	67	PZ	IMR537	2215	2219	2224

Trial. 67 CWZ (Z-V)(AVT-I Early Maturity)

Trial No. : 67 Z -V Early Maturity (AVT-I Year)
Year (Season): 2016-Kharif
Replication : 3
Row No. : 4
Row Length: 4 mts.
Locations: Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabua, Bhiloda, AAR Dahod, Rajpur, Jagadalpur, RARS Ujjain, ZARS Indore, ARS Kota, Chittarkoot

E. No.	Name	Institute/orga.	Trial no.	Zone	IIMR Code	R1	R2	R3
1	JKMH 4222	JK seeds	67	CWZ	IMR541	2240	2243	2252
2	PMH-5(C)	PAU Ludhiana	67	CWZ	IMR542	2239	2244	2249
3	Prakash(C)	PAU Ludhiana	67	CWZ	IMR543	2237	2246	2255
4	Seed Tech 2324 (Filler)	Bisco	67	CWZ	IMR544	2241	2242	2254
5	PMH1(Filler)	PAU Ludhiana	67	CWZ	IMR545	2235	2248	2250
6	PMH4 (Filler)	PAU Ludhiana	67	CWZ	IMR546	2236	2245	2251
7	BIO9637 (Filler)	Bio seed	67	CWZ	IMR547	2238	2247	2253

Trial. Rainfed **Normal Set**
Maturity Group: Early+Extra Early
Year (Season): 2016-Kharif
Replication : 2
Row No. : 2
Row Length: 3 mts.
Location Delhi, Kolhapur, Karimnagar, Vagarai, Dharwad, Udaipur, Banswara, Godhra, Bhiloda, Chindawara

E.No.	IMR CODE	R1	R2
1	IMR-N 761	N-2613	N-2630
2	IMR-N 762	N-2621	N-2628
3	IMR-N 763	N-2610	N-2634
4	IMR-N 764	N-2615	N-2629
5	IMR-N 765	N-2620	N-2624
6	IMR-N 766	N-2612	N-2631
7	IMR-N 767	N-2617	N-2627
8	IMR-N 768	N-2614	N-2632
9	IMR-N 769	N-2619	N-2623
10	IMR-N 770	N-2622	N-2635
11	IMR-N 771	N-2616	N-2626
12	IMR-N 772	N-2611	N-2625
13	IMR-N 773	N-2618	N-2633

Note: N - **N** represents the **Normal set** where **irrgation will be provided** as per the standard packages of practices

Trial. Rainfed **Rainfed Set**
Maturity Group: Early+Extra Early
Year (Season): 2016-Kharif
Replication : 2
Row No. : 2
Row Length: 3 mts.
Location Delhi, Kolhapur, Karimnagar, Vagarai, Dharwad, Udaipur, Banswara, Godhra, Bhiloda, Chindawara

E.No.	IMR CODE	R1	R2
1	IMR-RF 781	RF-2660	RF-2676
2	IMR-RF 782	RF-2659	RF-2664
3	IMR-RF 783	RF-2657	RF-2672
4	IMR-RF 784	RF-2662	RF-2675
5	IMR-RF 785	RF-2653	RF-2671
6	IMR-RF 786	RF-2663	RF-2673
7	IMR-RF 787	RF-2652	RF-2667
8	IMR-RF 788	RF-2656	RF-2666
9	IMR-RF 789	RF-2661	RF-2665
10	IMR-RF 790	RF-2654	RF-2668
11	IMR-RF 791	RF-2651	RF-2669
12	IMR-RF 792	RF-2655	RF-2674
13	IMR-RF 793	RF-2658	RF-2670

Note: RF -**RF** represents the **Rainfed set** where **no irrgation (Even no life** saving irrigation) will be provided at any of the crop growth stages

Trial. Rainfed **Normal Set**
Maturity Group: Late+Medium
Year (Season): 2016-Kharif
Replication : 2
Row No. : 2
Row Length: 3 mts.
Locations Delhi, Kolhapur, Karimnagar, Vagarai, Dharwad, Udaipur, Banswara, Godhra, Bhiloda, Chindawara

E.No.	IMR CODE	R1	R2
1	IMR-N 801	N-2728	N-2730
2	IMR-N 802	N-2729	N-2761
3	IMR-N 803	N-2696	N-2756
4	IMR-N 804	N-2718	N-2737
5	IMR-N 805	N-2721	N-2739
6	IMR-N 806	N-2727	N-2748
7	IMR-N 807	N-2691	N-2751
8	IMR-N 808	N-2692	N-2744
9	IMR-N 809	N-2693	N-2745
10	IMR-N 810	N-2708	N-2749
11	IMR-N 811	N-2714	N-2747
12	IMR-N 812	N-2722	N-2760
13	IMR-N 813	N-2699	N-2734
14	IMR-N 814	N-2715	N-2754
15	IMR-N 815	N-2703	N-2752
16	IMR-N 816	N-2698	N-2757
17	IMR-N 817	N-2720	N-2733
18	IMR-N 818	N-2713	N-2758
19	IMR-N 819	N-2723	N-2732
20	IMR-N 820	N-2711	N-2731
21	IMR-N 821	N-2712	N-2755
22	IMR-N 822	N-2706	N-2735
23	IMR-N 823	N-2717	N-2766
24	IMR-N 824	N-2709	N-2763
25	IMR-N 825	N-2695	N-2767
26	IMR-N 826	N-2694	N-2765
27	IMR-N 827	N-2700	N-2746
28	IMR-N 828	N-2719	N-2743
29	IMR-N 829	N-2725	N-2736
30	IMR-N 830	N-2697	N-2741
31	IMR-N 831	N-2702	N-2740
32	IMR-N 832	N-2710	N-2764
33	IMR-N 833	N-2701	N-2768
34	IMR-N 834	N-2704	N-2742
35	IMR-N 835	N-2716	N-2759
36	IMR-N 836	N-2707	N-2750
37	IMR-N 837	N-2705	N-2762
38	IMR-N 838	N-2724	N-2753
39	IMR-N 839	N-2726	N-2738

Note: N - **N** represents the **Normal set** where **irrgation will be provided** as per the standard packages of practices

Trial. Rainfed **Rainfed Set**
Maturity Group: Late+Medium
Year (Season): 2016-Kharif
Replication : 2
Row No. : 2
Row Length: 3 mts.
Locations: Delhi, Kolhapur, Karimnagar, Vagarai, Dharwad, Udaipur, Banswara, Godhra, Bhiloda, Chindawara

E.No.	IMR CODE	R1	R2
1	IMR-RF 851	RF-2780	RF-2843
2	IMR-RF 852	RF-2814	RF-2845
3	IMR-RF 853	RF-2816	RF-2828
4	IMR-RF 854	RF-2811	RF-2834
5	IMR-RF 855	RF-2789	RF-2856
6	IMR-RF 856	RF-2796	RF-2825
7	IMR-RF 857	RF-2801	RF-2838
8	IMR-RF 858	RF-2799	RF-2842
9	IMR-RF 859	RF-2787	RF-2820
10	IMR-RF 860	RF-2786	RF-2836
11	IMR-RF 861	RF-2785	RF-2852
12	IMR-RF 862	RF-2807	RF-2848
13	IMR-RF 863	RF-2783	RF-2844
14	IMR-RF 864	RF-2781	RF-2837
15	IMR-RF 865	RF-2805	RF-2846
16	IMR-RF 866	RF-2817	RF-2832
17	IMR-RF 867	RF-2798	RF-2831
18	IMR-RF 868	RF-2782	RF-2835
19	IMR-RF 869	RF-2813	RF-2840
20	IMR-RF 870	RF-2808	RF-2839
21	IMR-RF 871	RF-2791	RF-2851
22	IMR-RF 872	RF-2803	RF-2823
23	IMR-RF 873	RF-2797	RF-2821
24	IMR-RF 874	RF-2795	RF-2849
25	IMR-RF 875	RF-2802	RF-2850
26	IMR-RF 876	RF-2794	RF-2833
27	IMR-RF 877	RF-2784	RF-2819
28	IMR-RF 878	RF-2812	RF-2847
29	IMR-RF 879	RF-2815	RF-2822
30	IMR-RF 880	RF-2818	RF-2857
31	IMR-RF 881	RF-2788	RF-2824
32	IMR-RF 882	RF-2800	RF-2830
33	IMR-RF 883	RF-2806	RF-2841
34	IMR-RF 884	RF-2792	RF-2853
35	IMR-RF 885	RF-2793	RF-2827
36	IMR-RF 886	RF-2809	RF-2854
37	IMR-RF 887	RF-2804	RF-2855
38	IMR-RF 888	RF-2790	RF-2829
39	IMR-RF 889	RF-2810	RF-2826

Note: RF -**RF** represents the **Rainfed set** where **no irrgation (Even no life** saving irrigation) will be provided at any of the crop growth stages

Trial No. : **Zonal Trial -102**
Maturity **: Medium**
Year (Season). **: 2016-Kharif**
Entries **: 15**
Rep **: 3**
Row **: 2**
Plot size **: 4.0x1.2m**
Location **: Bajaura, Kangra, Udhampur**

S. No.	Code	Pedigree	Origin	Plot No.		
				RI	RII	RIII
1	ZR-201	BIO 9544 (C)	CHECK	2001	2018	2032
2	ZR-202	UDMH 132	UDHAMPUR	2002	2021	2036
3	ZR-203	LMH 1316	Bajaura	2003	2023	2039
4	ZR-204	KMH 14-68	Kangra	2004	2027	2043
5	ZR-205	LMH 1416	Bajaura	2005	2020	2045
6	ZR-206	UDMH 131	UDHAMPUR	2006	2029	2033
7	ZR-207	LMH 1516	Bajaura	2007	2016	2037
8	ZR-208	KMH 14-37	Kangra	2008	2025	2040
9	ZR-209	LMH 1616	Bajaura	2009	2030	2044
10	ZR-210	LMH 1716	Bajaura	2010	2028	2042
11	ZR-211	KMH 14-73	Kangra	2011	2026	2034
12	ZR-212	UDMH 130	UDHAMPUR	2012	2024	2038
13	ZR-213	LMH 1816	Bajaura	2013	2019	2041
14	ZR-214	Palam Sankar Makka -2(C)	CHECK	2014	2022	2035
15	ZR-215	LMH 1916	Bajaura	2015	2017	2031

Trial No. **Zonal Trial 103**
Year (Season). **: Kharif-2016**
Entries **: 22**
Rep **: 3**
Row **: 2**
Plot size **: 4.0x1.2m**
Location **: Almora, Bajaura, Srinagar**

Entry Number	Code	Pedigree	Origin	Replication		
				I	II	III
1	ZR101	UDMH 133	Udhampur, 2015K	1015	1038	1064
2	ZR102	KDMH 102	Srinagar, 2015K	1006	1044	1046
3	ZR103	FH 3815	Almora, 2015K	1002	1040	1063
4	ZR104	FH 3819	Almora, 2015K	1019	1026	1047
5	ZR105	FH 3820	Almora, 2015K	1001	1034	1060
6	ZR106	FH 3821	Almora, 2015K	1014	1023	1066
7	ZR107	FH 3827	Almora, 2015K	1004	1036	1058
8	ZR108	KMH-14-46	Kangra, 2015K	1011	1037	1056
9	ZR109	FH 3854	Almora, 2015K	1018	1031	1052
10	ZR110	Vivek Hybrid 45	Almora, 2015K	1016	1042	1053
11	ZR111	Vivek Hybrid 39	Almora, 2015K	1008	1024	1045
12	ZR112	KDMH 104	Srinagar, 2015K	1020	1035	1061
13	ZR113	FH 3850	Almora, 2015K	1003	1028	1065
14	ZR114	LMH 116	Bajaura, 2015K	1010	1027	1059
15	ZR115	LMH 516	Bajaura, 2015K	1005	1032	1062
16	ZR116	LMH 216	Bajaura, 2015K	1009	1043	1051
17	ZR117	LMH 416	Bajaura, 2015K	1013	1029	1055
18	ZR118	LMH 316	Bajaura, 2015K	1022	1041	1054
19	ZR119	KMH-14-50	Kangra, 2015K	1017	1039	1057
20	ZR120	FH 3848	Almora, 2015K	1021	1025	1049
21	ZR121	FH 3849	Almora, 2015K	1012	1033	1048
22	ZR122	KDMH 103	Srinagar, 2015K	1007	1030	1050

Trial No. **: Zonal Trial (NEPZ) 1**
Maturity **: Medium**
Year (Season). **: 2016-Kharif**
Entries **: 12**
Replication. **: 3**
Row No. **: 2**
Row Length. **: 4mts.**
No. of Location **: 5**
Locations **: Varanasi, Dholi, Bahraich, Bhubaneswar, Ranchi**

Ent. No	Code	Name of Variety(Origin)	RI	RII	RIII
1	NPEZ-301	VEH 16-1 (BHU)	301	318	327
2	NPEZ -302	VEH 16-2 (BHU)	302	324	331
3	NPEZ -303	VEH 16-3 (BHU)	303	313	335
4	NPEZ -304	VEH 16-4 (BHU)	304	321	329
5	NPEZ -305	VEHQ -16-1 (BHU)	305	316	325
6	NPEZ -306	RAUMH-15 (Dholi, Bihar)	306	319	333
7	NPEZ -307	RAUMH-16 (Dholi, Bihar)	307	314	336
8	NPEZ -308	RAUMH-17 (Dholi, Bihar)	308	323	330
9	NPEZ -309	RAUMH-18 (Dholi, Bihar)	309	320	326
10	NPEZ -310	BAUMC-4 (Ranchi, Jharkhand)	310	317	334
11	NPEZ -311	Filler	311	322	332
12	NPEZ -312	Check 9544	312	315	328

Trial No. : **PENINSULAR Zonal Trial (NEPZ) 1**
Maturity **: Medium & Late**
Year (Season). **: 2016-Kharif**
Entries **: 17**
Replication. **: 3**
Row No. **: 2**
Row Length. **: 4 mts.**
No. of Locations **: 5**
Locations **: Hyderabad, Karimnagar, Coimbatore, Mandya, Kolhapur**

Ent. No	PEDIGREE CODI	Entry Name	R1	R2	R3
1	IIMRWNC-401	DHM-117 C	2011	2027	2039
2	IIMRWNC-402	DHM-121 C	2003	2031	2044
3	IIMRWNC-403	CoH (M) 8 C	2017	2030	2042
4	IIMRWNC-404	CoH (M) 7 C	2012	2029	2050
5	IIMRWNC-405	KNMH 4503	2002	2022	2035
6	IIMRWNC-406	KNMH 4504	2004	2026	2038
7	IIMRWNC-407	KNMH 4507	2008	2034	2048
8	IIMRWNC-408	KNMH 4513	2005	2018	2037
9	IIMRWNC-409	KNMH 4514	2014	2021	2040
10	IIMRWNC-410	BH 414158	2016	2033	2041
11	IIMRWNC-411	BH 414176	2007	2023	2051
12	IIMRWNC-412	BH 414012	2015	2028	2045
13	IIMRWNC-413	BH 414143	2009	2019	2047
14	IIMRWNC-414	QMH 1420	2013	2032	2049
15	IIMRWNC-415	QMH 1347	2006	2025	2036
16	IIMRWNC-416	QMH 2966	2010	2024	2043
17	IIMRWNC-417	QMH 1252	2001	2020	2046

Trial No. : **Zonal Trial -501**
Maturity **: Late**
Year (Season). **: 2016-Kharif**
Entries **: 14**
Replication. **: 3**
Row No. **: 2**
Row Length. **: 4 mts.**
No. of Locations **: 5**
Locations **: Ambikapur, Banswara, Chhindwara, Godhara, Udaipur**

SN	CODE	PEDIGREE	SOURCE	R1	R2	R3
1	ZT-501-1	IAHM-2015-104	Ambikapur	5603	5121	5142
2	ZT-501-2	IAHM-2015-59	Ambikapur	5112	5118	5135
3	ZT-501-3	IAHM-2015-58	Ambikapur	5104	5124	5131
4	ZT-501-4	EH-2946	Udaipur	5107	5128	5136
5	ZT-501-5	EH-2945	Udaipur	5113	5117	5132
6	ZT-501-6	EH-2944	Udaipur	5109	5125	5134
7	ZT-501-7	EH-2943	Udaipur	5111	5119	5140
8	ZT-501-8	EH-2942	Udaipur	5108	5123	5130
9	ZT-501-9	EH-2941	Udaipur	5101	5127	5139
10	ZT-501-10	EH-2603	Udaipur	5106	5115	5137
11	ZT-501-11	EH-2408	Udaipur	5110	5122	5129
12	ZT-501-12	Pratap Maize Hybrid-3	Check	5102	5120	5138
13	ZT-501-13	EH2401	Udaipur	5114	5126	5133
14	ZT-501-14	Pratap Makka -9	Check	5105	5116	5141

Trial No. : **Zonal Trial -502**
Maturity **: Medium**
Year (Season). **: 2016-Kharif**
Entries **: 28**
Replication. **: 3**
Row No. **: 2**
Row Length. **: 4 mts.**
No. of Locations **: 5**
Locations **: Ambikapur, Banswara, Chhindwara, Godhara, Udaipur**

SN	CODE	PEDIGREE	SOURCE	R1	R2	R3
1	ZT-502-1	WH-1008	Banswara	5226	5240	5260
2	ZT-502-2	WH-2212	Banswara	5212	5231	5279
3	ZT-502-3	WH-2213	Banswara	5204	5237	5270
4	ZT-502-4	WH-2214	Banswara	5216	5256	5266
5	ZT-502-5	WH-2215	Banswara	5203	5230	5275
6	ZT-502-6	WH-2216	Banswara	5211	5247	5261
7	ZT-502-7	WH-2217	Banswara	5220	5238	5269
8	ZT-502-8	WH-2227	Banswara	5202	5246	5280
9	ZT-502-9	IAHM-2015-85	Ambikapur	5217	5236	5265
10	ZT-502-10	IAHM-2015-52	Ambikapur	5210	5251	5278
11	ZT-502-11	IAHM-2015-45	Ambikapur	5221	5232	5274
12	ZT-502-12	H-1001	chhindwara	5201	5255	5257
13	ZT-502-13	Pratap Maize Hybrid -3	Check	5218	5239	5262
14	ZT-502-14	Pratap Makka-9	Check	5227	5245	5271
15	ZT-502-15	EH2941	Udaipur	5209	5235	5268
16	ZT-502-16	EH2942	Udaipur	5222	5248	5281
17	ZT-502-17	EH2943	Udaipur	5228	5254	5264
18	ZT-502-18	EH2944	Udaipur	5205	5241	5277
19	ZT-502-19	EH2870	Udaipur	5223	5229	5283
20	ZT-502-20	EH2588	Udaipur	5213	5244	5258
21	ZT-502-21	EH2438	Udaipur	5206	5250	5273
22	ZT-502-22	EH2872	Udaipur	5225	5252	5284
23	ZT-502-23	EH2898	Udaipur	5215	5243	5263
24	ZT-502-24	EH2621	Udaipur	5207	5233	5276
25	ZT-502-25	EH2646	Udaipur	5224	5253	5282
26	ZT-502-26	EH2876	Udaipur	5214	5249	5267
27	ZT-502-27	EH2654	Udaipur	5208	5234	5272
28	ZT-502-28	EH2658	Udaipur	5219	5242	5259

Trial No. : **Zonal Trial -503**
Maturity **: Early**
Year (Season). **: 2016-Kharif**
Entries **: 25**
Replication. **: 3**
Row No. **: 2**
Row Length. **: 4 mts.**
No. of Locations **: 5**
Locations **: Ambikapur, Banswara, Chhindwara, Godhara, Udaipur**

SN	CODE	PEDIGREE	SOURCE	R1	R2	R3
1	ZT-503-1	WH-3168	Banswara	5303	5342	5362
2	ZT-503-2	WH-3169	Banswara	5318	5338	5373
3	ZT-503-3	WH-3170	Banswara	5313	5329	5354
4	ZT-503-4	WH-3171	Banswara	5322	5343	5372
5	ZT-503-5	H-1002	Chhindwara	5304	5337	5361
6	ZT-503-6	GYH-1304	Godhara	5323	5328	5353
7	ZT-503-7	GYH-0702	Godhara	5314	5339	5371
8	ZT-503-8	GYH-1203	Godhara	5312	5344	5360
9	ZT-503-9	GYH-0953	Godhara	5319	5330	5363
10	ZT-503-10	GWH-1201	Godhara	5305	5348	5374
11	ZT-503-11	EH-2930	Udaipur	5301	5336	5370
12	ZT-503-12	EH-2931	Udaipur	5306	5331	5352
13	ZT-503-13	EH-2932	Udaipur	5315	5345	5359
14	ZT-503-14	EH-2933	Udaipur	5324	5340	5369
15	ZT-503-15	EH-2934	Udaipur	5311	5335	5364
16	ZT-503-16	EH-2878	Udaipur	5325	5327	5355
17	ZT-503-17	EH-2936	Udaipur	5310	5350	5375
18	ZT-503-18	EH-2937	Udaipur	5321	5346	5368
19	ZT-503-19	EH-2935	Udaipur	5307	5332	5358
20	ZT-503-20	EH-2891	Udaipur	5316	5349	5367
21	ZT-503-21	EH-2583	Udaipur	5309	5333	5356
22	ZT-503-22	IAHM-2015-89	Ambikapur	5317	5347	5351
23	ZT-503-23	Pratap Makka-3	Check	5302	5341	5365
24	ZT-503-24	Pratap Maize Hybrid -3	Check	5320	5326	5357
25	ZT-503-25	Pratap Makka-9	Check	5308	5334	5366

Trial No. : **Zonal Trial -ZTQ-01**
Year (Season). **: 2016-Kharif**
Entries **: 12**
Replication. **: 3**
Row No. **: 2**
Row Length. **: 4 mts.**
No. of Locations **: 5**
Locations **: Ambikapur, Banswara, Chhindwara, Godhara, Udaipur**

SN	CODE	PEDIGREE	SOURCE	R1	R2	R3
1	ZTQ01-1	GWHQPM-0916	Godhara	5412	5416	5434
2	ZTQ01-2	GWHQPM-0919	Godhara	5404	5422	5428
3	ZTQ01-3	GWHQPM-0917	Godhara	5408	5415	5436
4	ZTQ01-4	GYHQPM-0905	Godhara	5405	5417	5427
5	ZTQ01-5	EHQ-585	Udaipur	5401	5423	5435
6	ZTQ01-6	EHQ-584	Udaipur	5409	5421	5429
7	ZTQ01-7	EHQ-582	Udaipur	5410	5413	5426
8	ZTQ01-8	EHQ-583	Udaipur	5402	5420	5430
9	ZTQ01-9	EHQ-324	Udaipur	5407	5418	5432
10	ZTQ01-10	EHQ-567	Udaipur	5411	5424	5425
11	ZTQ01-11	Pratap QPM HYBRID-1	Check	5403	5414	5431
12	ZTQ01-12	PHM-3	Check	5406	5419	5433

Trial. 62 (Medium)-A

Trial No. : **Medium Maturity (NIVT) (62)**
Year (Season): **2015-Kharif**
Replication : **3**
Row No. : **2**
Row Length: **4 mts.**
Locations: **Srinagar**

E.No.	Name	Origin	Zone	IIMR Code	R1	R2	R3
1	KNMH-4501	ARS Karimnagar	All	IMR3001	1371	1423	1439
2	JH 13347	Ludhiana	All	IMR3002	1378	1386	1448
3	KMH 13-5	Kangra	All	IMR3003	1336	1392	1452
4	KNMH-4505	ARS Karimnagar	All	IMR3004	1358	1416	1432
5	HM15207	METAHELIX	All	IMR3005	1344	1422	1463
6	EH-2480	Udaipur	All	IMR3006	1373	1417	1453
7	JH 13348	Ludhiana	All	IMR3007	1364	1390	1424
8	AH7007	IARI Delhi	All	IMR3008	1360	1421	1440
9	SRIKAR 2079	Srikar seeds Ltd.	All	IMR3009	1359	1411	1427
10	IMH1526	IIMR New Delhi	All	IMR3010	1349	1381	1428
11	PMSW4	SKUAST Jammu	All	IMR3011	1368	1402	1446
12	EH-2233	Udaipur	All	IMR3012	1347	1397	1441
13	BIO 509	BIOSEED	All	IMR3013	1355	1401	1460
14	KNMH-4507	ARS Karimnagar	All	IMR3014	1339	1389	1430
15	IMH1530	IIMR New Delhi	All	IMR3015	1345	1380	1449
16	AMH-3435	Ajeet seeds Ltd.	All	IMR3016	1362	1408	1465
17	MMH-4-15	TCA Dholi	All	IMR3017	1372	1419	1431
18	UDMH-127	SKUAST Jammu	All	IMR3018	1341	1400	1451
19	NMH 109	Namdhari seeds Ltd.	All	IMR3019	1375	1405	1438
20	PMSY3	SKUAST Jammu	All	IMR3020	1350	1420	1461
21	CMH11-620	TNAU Coimbatore	All	IMR3021	1353	1384	1464
22	LMH 915	Bajaura	All	IMR3022	1366	1413	1457
23	JKMH 4103	JK Seeds Ltd.	All	IMR3023	1340	1383	1429
24	RCRMH1 (HTMR1)	Karnataka	All	IMR3024	1370	1410	1444
25	LMH 615	Bajaura	All	IMR3025	1352	1391	1459
26	JKMH 4333	JK Seeds Ltd.	All	IMR3026	1354	1407	1447
27	LMH 815	Bajaura	All	IMR3027	1343	1393	1437
28	OMH 14-64(CAH 1532	Bhubaneswar	All	IMR3028	1357	1382	1458
29	Mahabeej-1302	MSSC Ltd.	All	IMR3029	1351	1404	1445
30	IIMRNH 2015-1	IIMR Ludhiana	All	IMR3030	1363	1414	1436
31	CMH12-699	TNAU Coimbatore	All	IMR3031	1376	1403	1454
32	IIMRNH 2015-2	IIMR Ludhiana	All	IMR3032	1367	1385	1467
33	IMH1525	IIMR New Delhi	All	IMR3033	1337	1399	1426
34	BRM 12-3	BAC Sabour	All	IMR3034	1361	1418	1434
35	MMH-3-15	TCA Dholi	All	IMR3035	1342	1412	1450
36	DAS-MH-309	Dow Agro Sciences Ltd.	All	IMR3036	1374	1388	1455
37	NMH-3746	Nimal Seeds Ltd.	All	IMR3037	1338	1387	1425
38	PROLINE-511	Proline	All	IMR3038	1369	1395	1466
39	BL 106	BISCO BIO SCIENCE I	All	IMR3039	1379	1394	1456
40	IIMRNH 2015-3	IIMR Ludhiana	All	IMR3040	1356	1396	1442
41	HM15206	METAHELIX	All	IMR3041	1377	1409	1443
42	HM 9-C	HAU, Karnal	All	IMR3042	1365	1415	1435
43	BIO 9637-C	Bioseed	All	IMR3043	1348	1398	1462
44	PMH-4-C	PAU, Ludhiana	All	IMR3044	1346	1406	1433

Trial. 62 (Medium)-B

Trial No. : **Medium Maturity (NIVT) (62)**
Year (Season): **2015-Kharif**
Replication : **3**
Row No. : **2**
Row Length: **4 mts.**
Locations: **Srinagar**

E.No.	Name	Origin	Zone	IIMR Code	R1	R2	R3
1	BRM 12-4	BAC Sabour	All	IMR3051	1473	1530	1585
2	AH1401	IARI Delhi	All	IMR3052	1482	1541	1569
3	OMH 14-7(CAH 1538	Bhubaneswar	All	IMR3053	1479	1551	1580
4	IMH1534	IIMR New Delhi	All	IMR3054	1487	1543	1573
5	Muskan	BBN Ltd.	All	IMR3055	1497	1537	1589
6	IMH1524	IIMR New Delhi	All	IMR3056	1483	1519	1594
7	PM15107M	PHI Seeds Ltd.	All	IMR3057	1491	1544	1566
8	RMH-301	Rasi seeds Ltd.	All	IMR3058	1514	1521	1602
9	LMH 715	Bajaura	All	IMR3059	1510	1522	1563
10	KNMH-4502	ARS Karimnagar	All	IMR3060	1471	1553	1575
11	IIMRNH 2015-4	IIMR Ludhiana	All	IMR3061	1505	1555	1593
12	KNMH-4504	ARS Karimnagar	All	IMR3062	1495	1523	1576
13	IMH1527	IIMR New Delhi	All	IMR3063	1498	1527	1591
14	Ganga-11	Godavari Ltd.	All	IMR3064	1490	1517	1586
15	LMH 515	Bajaura	All	IMR3065	1489	1554	1600
16	KH-2001 GOLD	Kanchan Ltd.	All	IMR3066	1503	1558	1572
17	DH-293	Pantnagar	All	IMR3067	1509	1515	1562
18	VaMH 12014	Vagarai	All	IMR3068	1475	1557	1560
19	JH 31820	Ludhiana	All	IMR3069	1508	1550	1567
20	EH-2214	Udaipur	All	IMR3070	1486	1532	1581
21	CMH12-672	TNAU Coimbatore	All	IMR3071	1474	1525	1564
22	BIO 274	BIOSEED	All	IMR3072	1484	1539	1570
23	PHM 34	SKUAST Jammu	All	IMR3073	1512	1552	1561
24	KMH-5332	Kavari seed Ltd.	All	IMR3074	1477	1526	1597
25	KNMH-4508	ARS Karimnagar	All	IMR3075	1506	1548	1577
26	HKH 350	HAU Karnal	All	IMR3076	1501	1556	1601
27	HT 515349	Hytech Seed India P.Ltd	All	IMR3077	1504	1536	1592
28	BGMH2 (CAH1454)	Karnataka	All	IMR3078	1507	1542	1595
29	LMH 1015	Bajaura	All	IMR3079	1511	1531	1578
30	DH-294	Pantnagar	All	IMR3080	1485	1535	1582
31	IMH1533	IIMR New Delhi	All	IMR3081	1496	1533	1588
32	RCRMH2 (HTMR2)	Karnataka	All	IMR3082	1493	1538	1584
33	BL 107	BISCO BIO SCIENCE I	All	IMR3083	1488	1528	1599
34	AH7009	IARI Delhi	All	IMR3084	1513	1549	1579
35	GK3131	Ganga Kavari Ltd.	All	IMR3085	1492	1529	1587
36	IIMRNH 2015-5	IIMR Ludhiana	All	IMR3086	1481	1518	1571
37	DAS-MH-308	Dow Agro Sciences Ltd.	All	IMR3087	1502	1546	1596
38	BGMH1 (CAH1526)	Karnataka	All	IMR3088	1476	1534	1583
39	KMH 13-79	Kangra	All	IMR3089	1499	1547	1598
40	BAUMC-3	Ranchi	All	IMR3090	1472	1524	1565
41	VEH 15-1	BHU	All	IMR3091	1478	1540	1574
42	HM 9-C	HAU, Karnal	All	IMR3092	1480	1520	1559
43	BIO 9637-C	Bioseed	All	IMR3093	1494	1516	1590
44	PMH-4-C	PAU, Ludhiana	All	IMR3094	1500	1545	1568

Trial. 63,64 (Early-Ex Early)

Trial No. : **Early Maturity (IVT) (63,64)**
Year (Season): **2015-Kharif**
Replication : **3**
Row No. : **2**
Row Length: **4 mts.**
Locations: Sirirnagar **Srinagar**

E.No.	Name	Origin	Zone	IIMR Code	R1	R2	R3
1	BRM 12-5	BAC Sabour	All	IMR4001	1643	1655	1722
2	KMH-5510	Kavari seed Ltd.	All	IMR4002	1609	1648	1707
3	AH7006	IARI Delhi	All	IMR4003	1633	1658	1719
4	LMH 1215	Bajaura	All	IMR4004	1617	1669	1726
5	DMRH1305	IIMR New Delhi	All	IMR4005	1621	1659	1716
6	FH 3728	VPKAS Almora	All	IMR4006	1622	1663	1718
7	LMH 1415	Bajaura	All	IMR4007	1644	1653	1688
8	JH 31785	Ludhiana	All	IMR4008	1626	1668	1727
9	FH 3754	VPKAS Almora	All	IMR4009	1635	1685	1691
10	BL 104	BISCO BIO SCIENC	All	IMR4010	1638	1654	1692
11	KMH 13-15	Kangra	All	IMR4011	1611	1676	1721
12	BL 105	BISCO BIO SCIENC	All	IMR4012	1618	1686	1700
13	DH-292	Pantnagar	All	IMR4013	1620	1678	1708
14	H-100 (CAH-1527	SKUAST Kashmir	All	IMR4014	1624	1683	1698
15	H-101 (CAH-1586	SKUAST Kashmir	All	IMR4015	1627	1649	1689
16	IH-0712	Godhara	All	IMR4016	1629	1666	1705
17	EH-2416	Udaipur	All	IMR4017	1614	1650	1695
18	CMH12-700	TNAU Ciombatore	All	IMR4018	1636	1665	1724
19	KMH 13-17	Kangra	All	IMR4019	1625	1679	1715
20	AH1402	IARI Delhi	All	IMR4020	1612	1651	1690
21	LMH 1115	Bajaura	All	IMR4021	1630	1670	1704
22	CMH12-703	TNAU Ciombatore	All	IMR4022	1637	1675	1694
23	LMH 1315	Bajaura	All	IMR4023	1647	1667	1720
24	DH-291	Pantnagar	All	IMR4024	1639	1682	1703
25	FH 3729	VPKAS Almora	All	IMR4025	1615	1662	1725
26	JKMH 4222	JK Seeds Ltd.	All	IMR4026	1632	1671	1713
27	NMH-51	Nimal Seeds Ltd.	All	IMR4027	1646	1652	1717
28	IH-0953	Godhara	All	IMR4028	1641	1657	1711
29	BRM 12-2	BAC Sabour	All	IMR4029	1640	1680	1723
30	MEH-2-15	TCA Dholi	All	IMR4030	1628	1656	1706
31	Khushi	BBN Ltd.	All	IMR4031	1634	1674	1697
32	LMH 1515	Bajaura	All	IMR4032	1608	1677	1701
33	MEH-1-15	TCA Dholi	All	IMR4033	1645	1672	1693
34	PMH-5-C	PAU, Ludhiana	All	IMR4034	1619	1661	1714
35	Parkash-C	PAU, Ludhiana	All	IMR4035	1623	1664	1709
	Extra Early						
36	DH-297	Pantnagar	All	IMR4036	1631	1687	1712
37	DH-298	Pantnagar	All	IMR4037	1610	1684	1710
38	APH27-B	IARI Delhi	All	IMR4038	1616	1660	1696
39	Vivek Hybrid 21-(	Almora	All	IMR4039	1642	1681	1699
40	Vivek Hybrid 43-(	Almora	All	IMR4040	1613	1673	1702

Trial. 66 - (NHZ) (Z-1) (Medium)

Trial No. : **Medium Maturity (AVT-I Year)**
Year (Season): **2015-Kharif**
Replication : **3**
Row No. : **4**
Row Length: **4 mts.**
Locations: **Srinagar, Rajouri, Imphal**

E. No.	Name	Institute/orga.	Trial no	Zone	IIMR Coc	R1	R2	R3
1	BH 412084	ARI Hyderabad.	66	(NHZ) (Z-1)	IMR4045	2155	2163	2168
2	HT 51412182	Hytech Seed India P.Ltd.	66	(NHZ) (Z-1)	IMR4046	2157	2164	2170
3	HM 9-C	HAU, Karnal	66	(NHZ) (Z-1)	IMR4047	2152	2162	2166
4	BIO 9637-C	Bioseed	66	(NHZ) (Z-1)	IMR4048	2153	2161	2167
5	PMH-4-C	PAU, Ludhiana	66	(NHZ) (Z-1)	IMR4049	2151	2160	2169
6	Seed Tech2324 (Filler)	Bisco	66	(NHZ) (Z-1)	IMR4050	2156	2159	2171
7	Bio9681 (Filler)	Bioseed	66	(NHZ) (Z-1)	IMR4051	2154	2158	2165

Trial. 71 -(NHZ) (Z-1) (Early)

Trial No. : **Early Maturity (AVT-II Year)**
Year (Season): **2015-Kharif**
Replication : **3**
Row No. : **6**
Row Length: **4 mts.**
Locations: **Srinagar, Rajouri, Imphal**

E. No.	Name	Institute/orga.	Trial no	Zone	IIMR Coc	R1	R2	R3
1	FH 3605	VPKAS Almora	71	(NHZ) (Z-1)	IMR4061	2367	2369	2376
2	FH 3626	VPKAS Almora	71	(NHZ) (Z-1)	IMR4062	2364	2374	2377
3	Bio 9720	Bio Seeds Ltd.	71	(NHZ) (Z-1)	IMR4063	2363	2368	2381
4	PMH-5-C	PAU, Ludhiana	71	(NHZ) (Z-1)	IMR4064	2366	2372	2375
5	Parkash-C	PAU, Ludhiana	71	(NHZ) (Z-1)	IMR4065	2365	2371	2379
6	Vivek Hybrid 21-Filler	Almora	71	(NHZ) (Z-1)	IMR4066	2362	2370	2380
7	Vivek Hybrid 43-C-Filler	Almora	71	(NHZ) (Z-1)	IMR4067	2361	2373	2378

Tr.SC-III (SWEET CORN)

Trial N X G - SCIII Zone-NHZ, NEPZ

N X G Trial : SC Z -NHZ, NEPZ (1,3)
Year (Season): 2016-Kharif
Locations: Bajura, Almora, Bahraich, Bubhaneshwar

E.No.	IIMR Code	Trial No.	Zone
1	IMR601	SC III	Z-1,3
2	IMR602	SC III	Z-1,3
3	IMR603	SC III	Z-1,3
4	IMR604	SC III	Z-1,3
5	IMR605	SC III	Z-1,3

Trial N X G -SC Z-NWPZ, PZ, CWZ

N X G Trial SC Z - II, IV,V (NWPZ, PZ, CWZ) SC (SC-III)
Year (Season): 2016-Kharif
Locations: Ludhiana, Karnal,Karimnagar, Dharwad, Chindwara, Banswara

E.N	IIMR Code	Trial no.	Zone
1	IMR610	SC III	Z-2,4,5
2	IMR611	SC III	Z-2,4,5
3	IMR612	SC III	Z-2,4,5
4	IMR613	SC III	Z-2,4,5

Tr.BC-III (BABYCORN)

Trial N X G - BCIII Zone-NHZ, NEPZ,CWZ

N X G Trial : SC Z -NHZ, NEPZ,CWZ (1,3, 5)
Year (Season): 2016-Kharif
Locations: Bajura, Almora, Bahraich, Bubhneshwar,Chindwara, Banswara

E.No.	IIMR Code	Trial No.	Zone
1	IMR615	BC III	1,3,5
2	IMR616	BC III	1,3,5
3	IMR617	BC III	1,3,5
4	IMR618	BC III	1,3,5

Tr.PC-III (POPCORN)

Trial N X G - PCIII Zone-All

N X G Trial : SC Z -NHZ, NWPZ, NEPZ,PZ, CWZ (1,2,3, 4,5)
Year (Season): 2016-Kharif
Locations: Bajura, Almora, Ludhiana, Karnal, Bahraich, Bubhaneshwar,Karimnagar, Dharwad, Chindwara, Banswara

E.No.	IIMR Code	Trial No.	Zone
1	IMR620	PC III	All
2	IMR621	PC III	All
3	IMR622	PC III	All
4	IMR623	PC III	All

Trial N X G -AVT-II Late- PZ(Z-IV)

N X G Trial :AVT-II Late PZ (Z - IV) Late Maturity (AVT II)

Year (Season): 2016-Kharif

Locations:Karimnagar, Dharwad

E. No.	IIMR Code	Trial no.	Zone
5	IMR631	69	PZ
6	IMR632	69	PZ
7	IMR633	69	PZ
8	IMR634	69	PZ
9	IMR635	69	PZ
10	IMR636	69	PZ

Trial N X G -AVT-II Late CWZ (Z-V)

N X G Trial :AVT-II Late CWZ (Z - V) Late Maturity (AVT 2nd Year)

Year (Season): 2016-Kharif

Locations: Chidwara, Banswara

E. No.	IIMR Code	Trial no.	Zone
1	IMR641	69	CWZ
2	IMR642	69	CWZ
3	IMR643	69	CWZ
4	IMR644	69	CWZ
5	IMR645	69	CWZ
6	IMR646	69	CWZ

Trial N X G -AVT-IIMedium- NWPZ (Z-II)

N X G Trial :Medium NWPZ (Z - II) Medium Maturity (AVT 2nd Year)

Year (Season): 2016-Kharif

Locations:Ludhiana, Karnal

E. No.	IIMR Code	Trial no.	Zone
1	IMR651	70	NWPZ
2	IMR652	70	NWPZ
3	IMR653	70	NWPZ
4	IMR654	70	NWPZ

Trial N X G -AVT-IIMedium- PZ (Z-IV)

N X G Trial :AVT-II Medium PZ (Z -IV)Medium Maturity (AVT 2nd Year)

Year (Season): 2016-Kharif

Locations:Karimnagar, Dharwad

E. No.	IIMR Code	Trial no.	Zone
1	IMR661	70	PZ
2	IMR662	70	PZ
3	IMR663	70	PZ
4	IMR664	70	PZ
5	IMR665	70	PZ

Trial. Late-A Maturity (NIVT)-Patho

Trial No. : Late-A Pathology, Nematology and Soil Science Trial - Late-A
Year (Season): 2016-Kharif
Replication : 2
Row No. : 2
Row Length: 4 mts.
Pathology:Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi Hyderabad, Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani
Nematology: Udaipur
Soil Science: Pantnagar

E.No.	Name	Institute/Organization	Zone	IIMR Code	R1	R2
1	BLH 115	Bisco Bio Sciences Pvt.Ltd.	All*	Patho101	1029	1071
2	SYN616734	SYNGENTA	All*	Patho102	1027	1059
3	DKC 9178(IQ8623)	Monsanto India Ltd.	All*	Patho103	1024	1051
4	HT 16607	Hytech Seed India Private Limi	All*	Patho104	1013	1058
5	KH-16-149	K.G.S.C.Pvt.Lim	All*	Patho105	1045	1084
6	OMH 14-55 (CAH1537)	OAUT Bhubaneswar	All*	Patho106	1017	1093
7	BH 414012	ARI Hyderabad	All*	Patho107	1046	1098
8	JKMH 4152	JK seeds	All*	Patho108	1028	1085
9	CCH 9241	Rhini Seeds Private limited.	All*	Patho109	1044	1078
10	HM16305	METAHELIX	All*	Patho110	1023	1094
11	OMH 1462 (CAH 142)	OAUT Bhubaneswar	All*	Patho111	1043	1080
12	CMH11-591	TNAU	All*	Patho112	1034	1055
13	MM9333	METAHELIX	All*	Patho113	1021	1067
14	GH-1436	Dharwad	All*	Patho114	1012	1081
15	MM 2030	Mahindra Agro solutions.	All*	Patho115	1019	1056
16	KMH-5022	Kaveri deed company limited.	All*	Patho116	1037	1096
17	PM16104L	PHI Seed Ltd.	All*	Patho117	1014	1088
18	SYN617328	SYNGENTA	All*	Patho118	1038	1097
19	ADV 9233	Advanta India Limited	All*	Patho119	1002	1089
20	BLH 114	Bisco Bio Sciences Pvt.Ltd.	All*	Patho120	1006	1086
21	Star-9	STAR AGROTECH PVT.LTD.	All*	Patho121	1039	1052
22	IMHBG-2016-3	RMR & SPC Begusarai	All*	Patho122	1035	1062
23	PM16102L	PHI Seed Ltd.	All*	Patho123	1011	1087
24	X-7	STAR AGROTECH PVT.LTD.	All*	Patho124	1030	1077
25	C.P 888	C.P Seed India Ltd.	All*	Patho125	1040	1070
26	X-6	STAR AGROTECH PVT.LTD.	All*	Patho126	1032	1060
27	VaMH 13024	Vagarai	All*	Patho127	1049	1079
28	PM16103L	PHI Seed Ltd.	All*	Patho128	1007	1075
29	PM16101L	PHI Seed Ltd.	All*	Patho129	1022	1057
30	GH-1427	Dharwad	All*	Patho130	1041	1074
31	CMH11-586	TNAU	All*	Patho131	1036	1065
32	CCH 167	Rhini Seeds Private limited.	All*	Patho132	1042	1061
33	GK3202	Ganga Kaveri Seeds Pvt. Ltd.	All*	Patho133	1031	1066
34	KH-POLO Gold	K.G.S.C.Pvt.Lim	All*	Patho134	1018	1090
35	MM 2626	Mahindra Agro solutions.	All*	Patho135	1016	1053
36	VNR 33051	VNR SEED PVT. LTD.	All*	Patho136	1015	1068
37	DH-300	Pantnagar	All*	Patho137	1004	1072
38	OMH 14-16 (CAH1424)	OAUT Bhubaneswar	All*	Patho138	1020	1050
39	DH-301	Pantnagar	All*	Patho139	1026	1076
40	VNR 3Y069	VNR SEED PVT. LTD.	All*	Patho140	1003	1054
41	OMH 14-27 (CAH1511)	OAUT Bhubaneswar	All*	Patho141	1033	1095
42	KMH-24752	Kaveri deed company limited.	All*	Patho142	1005	1069
43	JH 13278	PAU Ludhiana	All*	Patho143	1009	1082
44	CMH11-583	TNAU	All*	Patho144	1025	1083
45	GK3204	Ganga Kaveri Seeds Pvt. Ltd.	All*	Patho145	1048	1064
46	TMMH 838	TRIMURTI PLANT SCIENCE	All*	Patho146	1047	1073
47	BIO 9682 (C)	Bio Seed Research India Ltd.Hy	All*	Patho147	1008	1091
48	CMH 08-287 (C)	TNAU,Coimbatore	All*	Patho148	1010	1092
49	CMH 08-282 (C)	TNAU,Coimbatore	All*	Patho149	1001	1063

All*= All Zones except Northern Hill Zone (NHZ) (Zone-I)

Trial. Late-B Maturity (NIVT)-Patho

Trial No. : Late-B Pathology, Nematology and Soil Science Trial - Late-B
Year (Season): 2016-Kharif
Replication : 2
Row No. : 2
Row Length: 4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi Hyderabad, Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani

Nematology: Udaipur

Soil Science: Pantnagar

E.No.	Name	Institute/Organization	Zone	IIMR Code	R1	R2
1	RMH 1601	Rasi seeds pvt.Ltd.	All*	Patho151	1179	1201
2	MH 25	TCA Dholi	All*	Patho152	1199	1216
3	MAH-14-5	Mandya	All*	Patho153	1185	1224
4	WH-1095	AICMIP MPUA&T Banswara	All*	Patho154	1194	1247
5	MH 26	TCA Dholi	All*	Patho155	1198	1240
6	JH 15130	PAU Ludhiana	All*	Patho156	1163	1208
7	IMH 1601	IIMR New Delhi	All*	Patho157	1166	1231
8	DAS-MH-113	Dow AgroSciences	All*	Patho158	1176	1210
9	IMH 1608	IIMR New Delhi	All*	Patho159	1172	1245
10	DAS-MH-112	Dow AgroSciences	All*	Patho160	1190	1213
11	SVMH-55	Shakti Vardhak Hybrid Seeds	All*	Patho161	1164	1243
12	QMH-1472	MIP GTC Kolhapur	All*	Patho162	1153	1226
13	AH-7188	IARI-RRC, Dharwad	All*	Patho163	1183	1230
14	JH 13094	PAU Ludhiana	All*	Patho164	1162	1205
15	IMH 1607	IIMR New Delhi	All*	Patho165	1192	1238
16	IMH 1526	IIMR New Delhi	All*	Patho166	1182	1235
17	IMH 1610	IIMR New Delhi	All*	Patho167	1187	1239
18	BIO 509	BIO SEEDS	All*	Patho168	1168	1200
19	JH 13023	PAU Ludhiana	All*	Patho169	1186	1212
20	QMH-1470	MIP GTC Kolhapur	All*	Patho170	1174	1229
21	JH 15106	PAU Ludhiana	All*	Patho171	1159	1218
22	JH 15135	PAU Ludhiana	All*	Patho172	1184	1233
23	NS 8181	Namdhari Seeds Pvt.Ltd.	All*	Patho173	1156	1241
24	IMH 1528	IIMR New Delhi	All*	Patho174	1188	1217
25	JH 13337	PAU Ludhiana	All*	Patho175	1158	1225
26	JH 15011	PAU Ludhiana	All*	Patho176	1177	1237
27	AH-7210	IARI-RRC, Dharwad	All*	Patho177	1191	1207
28	AH-1601	IARI-New Delhi	All*	Patho178	1161	1246
29	IMH 1527	IIMR New Delhi	All*	Patho179	1189	1232
30	MMH 1302	MSSC Ltd.	All*	Patho180	1155	1203
31	RMH 815	Rasi seeds pvt.Ltd.	All*	Patho181	1152	1219
32	NRI MH4	NRI Agritech Pvt.Ltd.	All*	Patho182	1193	1220
33	QMH-1435	MIP GTC Kolhapur	All*	Patho183	1180	1202
34	QMH-1478	MIP GTC Kolhapur	All*	Patho184	1173	1242
35	AH-1602	IARI-New Delhi	All*	Patho185	1165	1222
36	JH 15004	PAU Ludhiana	All*	Patho186	1171	1204
37	AH-7005	IARI-RRC, Dharwad	All*	Patho187	1181	1211
38	JH 15080	PAU Ludhiana	All*	Patho188	1169	1209
39	BIO 716	BIO SEEDS	All*	Patho189	1151	1215
40	CAH-1533	MSSC Ltd.	All*	Patho190	1197	1223
41	BIO 274	BIO SEEDS	All*	Patho191	1167	1248
42	IMH 1602	IIMR New Delhi	All*	Patho192	1170	1244
43	JH 13227	PAU Ludhiana	All*	Patho193	1154	1221
44	IMH 1533	IIMR New Delhi	All*	Patho194	1195	1227
45	IMH 1547	IIMR New Delhi	All*	Patho195	1157	1228
46	NS 8001	Namdhari Seeds Pvt.Ltd.	All*	Patho196	1178	1236
47	BIO 9682 (C)	Bio Seed Research India Ltd.I	All*	Patho197	1196	1234
48	CMH 08-287 (C)	TNAU,Coimbatore	All*	Patho198	1160	1206
49	CMH 08-282 (C)	TNAU,Coimbatore	All*	Patho199	1175	1214

All*= All Zones except Northern Hill Zone (NHZ) (Zone-I)

Trial. Medium-A Maturity (NIVT)-Patho

Trial No. : Medium-A Pathology, Nematology and Soil Science Trial -Medium-A
Year (Season): 2016-Kharif
Replication : 2
Row No. : 2
Row Length: 4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi Hyderabad, Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani

Nematology: Udaipur

Soil Science: Pantnagar

E.No.	Name	Institute/Organization	Zone	IIMR Code	R1	R2
1	OMH 14-18(CAH 1519)	OAUT Bhubaneswar	All	Patho201	1311	1343
2	DH-291	Pantnagar	All	Patho202	1322	1366
3	GH-150141(CAH1441)	UAS Dharwad	All	Patho203	1305	1341
4	WH-2002	AICMIP MPUA&T Banswa	All	Patho204	1328	1348
5	MM9222	METAHELIX	All	Patho205	1304	1340
6	BLH 112	Bisco Bio Sciences Pvt.Ltd.	All	Patho206	1313	1365
7	VaMH 14020	Vagarai	All	Patho207	1332	1350
8	BLH 113	Bisco Bio Sciences Pvt.Ltd.	All	Patho208	1335	1354
9	DH-303	Pantnagar	All	Patho209	1337	1367
10	UDMH-128	SKUAST Jammu	All	Patho210	1330	1371
11	IQ8319	Monsanto India Ltd.	All	Patho211	1338	1374
12	GH-150114(CAH1414)	UAS Dharwad	All	Patho212	1333	1368
13	IMHBG-2016-2	RMR & SPC Begusarai	All	Patho213	1306	1369
14	Kranthi	STAR AGROTECH PVT.L	All	Patho214	1310	1344
15	JKMH 4157	JK seeds	All	Patho215	1334	1376
16	BLH 111	Bisco Bio Sciences Pvt.Ltd.	All	Patho216	1319	1377
17	KMH-14-37	SAREC, Kangra	All	Patho217	1321	1355
18	IQ8712	Monsanto India Ltd.	All	Patho218	1318	1353
19	IIMRNH 2016-1	IIMR Ludhiana	All	Patho219	1309	1373
20	WH-1003	AICMIP MPUA&T Banswa	All	Patho220	1324	1378
21	IQ8627	Monsanto India Ltd.	All	Patho221	1326	1346
22	OMH 14-30(CAH 1514)	OAUT Bhubaneswar	All	Patho222	1329	1345
23	UDMH-129	SKUAST Jammu	All	Patho223	1320	1352
24	KMH-14-73	SAREC, Kangra	All	Patho224	1314	1364
25	GOLD-1155	Green Gold Seed Pvt.Ltd.	All	Patho225	1315	1342
26	Gagan	STAR AGROTECH PVT.L	All	Patho226	1323	1360
27	IMHBG-2016-4	RMR & SPC Begusarai	All	Patho227	1312	1361
28	IQ7802	Monsanto India Ltd.	All	Patho228	1302	1351
29	FCH-11267	FOLIAGE	All	Patho229	1307	1347
30	JKMH 1414	JK seeds	All	Patho230	1301	1358
31	IMHBG-2016-1	RMR & SPC Begusarai	All	Patho231	1308	1356
32	WH-2006	AICMIP MPUA&T Banswa	All	Patho232	1339	1359
33	IMHBG-2016-5	RMR & SPC Begusarai	All	Patho233	1303	1375
34	IMHBG-2016-6	RMR & SPC Begusarai	All	Patho234	1331	1363
35	GH-150125(CAH1525)	UAS Dharwad	All	Patho235	1316	1349
36	DH-302	Pantnagar	All	Patho236	1325	1372
37	CMH 08-292 (C)	TNAU,Coimbatore	All	Patho237	1336	1357
38	BIO 9544 (C)	Bio Seed Research India Lt	All	Patho238	1317	1370
39	DHM 121 (C)	ANGRAU, Hyderabad	All	Patho239	1327	1362

Trial. Medium-B Maturity (NIVT)-Patho

Trial No. : Medium-B Pathology, Nematology and Soil Science Trial -Medium-B
Year (Season): 2016-Kharif
Replication : 2
Row No. : 2
Row Length: 4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi Hyderabad, Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani
Nematology: Udaipur
Soil Science: Pantnagar

E.No.	Name	Institute/Organization	Zone	IIMR Code	R1	R2
1	LMH 616	CSKHPKV, HAREC Bajaura.	All	Patho241	1437	1501
2	IMH 1607	IIMR New Delhi	All	Patho242	1435	1482
3	IMH 1606	IIMR New Delhi	All	Patho243	1439	1465
4	IMH 1526	IIMR New Delhi	All	Patho244	1463	1500
5	HKH 354	CCS HAU RRS Karnal	All	Patho245	1430	1489
6	IMH 1609	IIMR New Delhi	All	Patho246	1425	1466
7	DMRH 1419	IIMR New Delhi	All	Patho247	1427	1503
8	LMH 916	CSKHPKV, HAREC Bajaura.	All	Patho248	1431	1470
9	LMH 816	CSKHPKV, HAREC Bajaura.	All	Patho249	1432	1493
10	IMH 1604	IIMR New Delhi	All	Patho250	1438	1480
11	MH 23	TCA Dholi	All	Patho251	1460	1468
12	IMH 1605	IIMR New Delhi	All	Patho252	1443	1481
13	LMH 1116	CSKHPKV, HAREC Bajaura.	All	Patho253	1456	1496
14	IMH 1608	IIMR New Delhi	All	Patho254	1434	1471
15	EH-2906	MPUAT Udhipur-313001	All	Patho255	1455	1478
16	LMH 716	CSKHPKV, HAREC Bajaura.	All	Patho256	1464	1490
17	VEH-16-1	BHU Varanasi	All	Patho257	1428	1475
18	IMH 1601	IIMR New Delhi	All	Patho258	1436	1499
19	HKH 355	CCS HAU RRS Karnal	All	Patho259	1453	1502
20	MMH 1403	MSSC Ltd.	All	Patho260	1459	1483
21	HKH 356	CCS HAU RRS Karnal	All	Patho261	1447	1479
22	KH-2001 Gold	K.G.S.C.Pvt.Lim	All	Patho262	1461	1491
23	IMH 1602	IIMR New Delhi	All	Patho263	1452	1487
24	BH 414176	ARI Hyderabad	All	Patho264	1446	1477
25	CCH 9999	Rhini Seeds Private limited.	All	Patho265	1450	1486
26	LMH 1216	CSKHPKV, HAREC Bajaura.	All	Patho266	1433	1476
27	DMRH 1410	IIMR New Delhi	All	Patho267	1440	1498
28	BH 414351	ARI Hyderabad	All	Patho268	1462	1484
29	HKH 353	CCS HAU RRS Karnal	All	Patho269	1448	1473
30	LMH 1016	CSKHPKV, HAREC Bajaura.	All	Patho270	1441	1467
31	INDAM-1122	Indo-American Hybrid Seeds (	All	Patho271	1457	1494
32	IMH 1603	IIMR New Delhi	All	Patho272	1449	1495
33	DAS-MH-310	Dow AgroSciences	All	Patho273	1426	1485
34	IMH 1527	IIMR New Delhi	All	Patho274	1451	1492
35	IMH 1533	IIMR New Delhi	All	Patho275	1454	1488
36	AH-7080	IARI-RRC, Dharwad	All	Patho276	1445	1504
37	MH 24	TCA Dholi	All	Patho277	1444	1469
38	CMH 08-292 (C)	TNAU,Coimbatore	All	Patho278	1429	1474
39	BIO 9544 (C)	Bio Seed Research India Ltd.H	All	Patho279	1458	1472
40	DHM 121 (BH 41	ANGRAU, Hyderabad	All	Patho280	1442	1497

Trial. Early+Ex Early (NIVT)-Patho

Trial No. : Early+Ex Early Pathology, Nematology and Soil Science Trial -Early+Ex Early
Year (Season): 2016-Kharif
Replication : 2
Row No. : 2
Row Length: 4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi Hyderabad, Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani

Nematology: Udaipur

Soil Science: Pantnagar

E.No.	Name	Institute/Organization	Zone	IIMR Code	R1	R2
	Early maturity					
1	JH 31784	PAU Ludhiana	All	Patho285	1571	1598
2	JH 31801	PAU Ludhiana	All	Patho286	1576	1626
3	AH-7204	IARI-RRC, Dharwad	All	Patho287	1586	1620
4	JH 31783	PAU Ludhiana	All	Patho288	1583	1604
5	KMH-14-46	SAREC, Kangra	All	Patho289	1568	1605
6	JH 31816	PAU Ludhiana	All	Patho290	1582	1610
7	JH 31794	PAU Ludhiana	All	Patho291	1559	1607
8	KH-102	K.G.S.C.Pvt.Lim	All	Patho292	1567	1606
9	BAUMC-5	Ranchi	All	Patho293	1572	1608
10	AH9002	IARI New Delhi	All	Patho294	1570	1616
11	AH-7009R	IARI-RRC, Dharwad	All	Patho295	1557	1615
12	WH-2096	AICMIP MPUA&T Bansv	All	Patho296	1575	1600
13	DMRH 1417	IIMR New Delhi	All	Patho297	1577	1603
14	KMH-14-50	SAREC, Kangra	All	Patho298	1578	1594
15	WH-2093	AICMIP MPUA&T Bansv	All	Patho299	1554	1609
16	JH 31780	PAU Ludhiana	All	Patho300	1552	1599
17	HKH 351	CCS HAU RRS Karnal	All	Patho301	1581	1591
18	AH-7154	IARI-RRC, Dharwad	All	Patho302	1560	1624
19	FH 3768	VPKAS Almora	All	Patho303	1579	1623
20	KDMH-105	SKUAST Kashmir	All	Patho304	1551	1627
21	IH-0901	Godhara Gujarat	All	Patho305	1558	1612
22	IH-0702	Godhara Gujarat	All	Patho306	1585	1621
23	IH-1204	Godhara Gujarat	All	Patho307	1553	1628
24	IH-0903	Godhara Gujarat	All	Patho308	1588	1597
25	AH-7007	IARI-RRC, Dharwad	All	Patho309	1564	1593
26	MH 21	TCA Dholi	All	Patho310	1566	1630
27	KMH-14-55	SAREC, Kangra	All	Patho311	1561	1601
28	FH 3763	VPKAS Almora	All	Patho312	1573	1596
29	MH 22	TCA Dholi	All	Patho313	1555	1611
30	HKH 352	CCS HAU RRS Karnal	All	Patho314	1584	1614
31	DH-304	Pantnagar	All	Patho315	1590	1595
32	PMH5 (C)	PAU Ludhiana	All	Patho316	1556	1619
33	BIO605 (C)	Bio Seed	All	Patho317	1562	1592
34	DKC 7074 (C)	Mansanto	All	Patho318	1589	1618
	Extra Early					
35	DH-305	Pantnagar	All	Patho319	1580	1602
36	BAUM-4	Ranchi	All	Patho320	1563	1625
37	FH 3765	VPKAS Almora	All	Patho321	1565	1613
38	FH 3771	VPKAS Almora	All	Patho322	1569	1617
39	Vivek Hybrid 51 (C)	VPKAS Almora	All	Patho323	1587	1622
40	Vivek Hybrid 45 (C)	VPKAS Almora	All	Patho324	1574	1629

Trial. QPM I-II-III-Pathology-Entomology

Trial No. : QPM I-II-III
Year (Season): 2016 (Kharif)
Replication : 2
Row No. : 2
Row Length: 4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi Hyderabad, Arbhavi, Coimbatore, Mandya (2), Udaipur (2), Barapani

Nematology: Udaipur

Soil Science: Pantnagar

Entomology: New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

E.No.	Name	Institute/orga.	Trial No.	IIMR Code	R1	R2
1	QPM-MH-27	TCA Dholi	QPM I	PE 331	1692	1720
2	IIMRQPMH 1501	IIMR Ludhiana	QPM II	PE 332	1685	1724
3	VEHQ-16-1	BHU Varanasi	QPM I	PE 333	1690	1727
4	IMHQPM 1530	IIMR New Delhi	QPM I	PE 334	1699	1710
5	IIMRQPMH 1608	IIMR Ludhiana	QPM I	PE 335	1696	1712
6	IIMRQPMH 1605	IIMR Ludhiana	QPM I	PE 336	1680	1706
7	IIMRQPMH 1603	IIMR Ludhiana	QPM I	PE 337	1698	1707
8	FQH 106	VPKAS Almora	QPM-II	PE 338	1687	1704
9	IIMRQPMH 1606	IIMR Ludhiana	QPM I	PE 339	1694	1702
10	IIMRQPMH 1508	IIMR Ludhiana	QPM II	PE 340	1695	1726
11	KDQH-51	SKUAST Kashmir	QPM-I	PE 341	1684	1725
12	IIMRQPMH 1601	IIMR Ludhiana	QPM I	PE 342	1683	1709
13	IIMRQPMH 1609	IIMR Ludhiana	QPM I	PE 343	1679	1715
14	IIMRQPMH 1604	IIMR Ludhiana	QPM I	PE 344	1701	1703
15	IIMRQPMH 1607	IIMR Ludhiana	QPM I	PE 345	1689	1708
16	IIMRQPMH 1504	IIMR Ludhiana	QPM II	PE 346	1675	1719
17	IIMRQPMH 1502	IIMR Ludhiana	QPM II	PE 347	1678	1718
18	REHQ2014-11	KANPUR	QPM I	PE 348	1691	1716
19	IIMRQPMH 1610	IIMR Ludhiana	QPM I	PE 349	1693	1717
20	IIMRQPMH 1602	IIMR Ludhiana	QPM I	PE 350	1700	1723
21	BQPMH 16	ARI Hyderabad	QPM I	PE 351	1681	1705
22	Pratap QPM Hybrid 1 (C)	MPUA & T, Udaipur	QPM I	PE 352	1686	1713
23	Vivek QPM 9 (C)	VPKAS Almora	QPM I	PE 353	1682	1722
24	HQPM 1 (C)	CCS HAU,Uchani	QPM I	PE 354	1688	1711
25	HQPM 4 (C)	CCS HAU,Uchani	QPM I	PE 355	1676	1714
26	HQPM 5 (C)	CCS HAU,Uchani	QPM I	PE 356	1697	1721
27	HQPM 7 (C)	CCS HAU,Uchani	QPM I	PE 357	1677	1728

Sweet Corn Trial I-II-III-Pathology-Entomology

Trial No. : Sweet Corn
Year (Season): 2016 (Kharif)
Replication : 2
Row No. : 2
Row Length: 4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi Hyderabad, Arbhavi, Coimbatore, Mandya (2), Udaipur (2), Barapani
Nematology: Udaipur
Soil Science: Pantnagar
Entomology: New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

E.No.	Name	Institute/orga.	Trial No.	IIMR Code	R1	R2
1	FSCH 91	VPKAS Almora	SC I	PE361	1770	1784
2	ASKH 4	IARI New Delhi	SC-II	PE362	1766	1785
3	VEHS-16-1	BHU Varanasi	SC I	PE363	1763	1775
4	ASKH 6	IARI New Delhi	SC-I	PE364	1761	1778
	FSCH 55*	VPKAS Almora	SC III, NHZ, NEPZ		1767	1777
5				PE365		
6						
	Madhula	Mahodaya Hybrid seed p	SC I	PE366	1768	1782
7	BIO 4043	BIO SEEDS	SC I	PE367	1764	1774
8	FSCH 75	VPKAS Almora	SC II	PE368	1765	1779
9	BSCH 6	ARI Hyderabad	SC III	PE369	1771	1783
10	MITHAS	Nongwoo seed India Pvt.	SC I	PE370	1762	1781
11	Misthi (C)	NUZIVEEDU SEEDS LI	SC I	PE371	1773	1780
12	Madhuri Sweet Corn (C)	PJTSAU ARI Hyderabad	SC I	PE372	1769	1786
13	Priya Sweet Corn (C)	PJTSAU ARI Hyderabad	SC I	PE373	1772	1776

Note: Filler have been used in rest of zones in cases where entries are proposed for specified zones by Breeders (mentioned with star as astrix)

Baby corn Trial I-II-III-Pathology-Entomology

Trial No. : Baby corn
Year (Season): 2016 (Kharif)
Replication : 2
Row No. : 2
Row Length: 4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi Hyderabad, Arbhavi, Coimbatore, Mandya (2), Udaipur (2), Barapani
Nematology: Udaipur
Soil Science: Pantnagar
Entomology: New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

E.No.	Name	Institute/orga.	Trial No.	IIMR Code	R1	R2
1	AH-5021	IARI-New Delhi	BCII	PE381	1810	1816
2	IMHB 1537	IIMR New Delhi	BC II	PE382	1802	1815
3	BVM-2	Ranchi	BC III	PE383	1806	1827
4	DMRHB 1305	IIMR New Delhi	BC II	PE384	1813	1826
5	AH-7043	IARI-RRC, Dharwad	BC I	PE385	1812	1828
6	IMHB 1525	IIMR New Delhi	BC II	PE386	1809	1820
7	IMHB 1538	IIMR New Delhi	BC II	PE387	1814	1825
8	MBC 11-15	TCA Dholi	BC II	PE388	1807	1822
9	IMHB 1529	IIMR New Delhi	BC II	PE389	1804	1818
10	IMHB 1531	IIMR New Delhi	BC II	PE390	1805	1819
11	GAYMH-1	Godhara Gujarat	BC II	PE391	1808	1817
12	IMHB 1539	IIMR New Delhi	BC II	PE392	1803	1821
13	IMHB 1532	IIMR New Delhi	BC II	PE393	1801	1824
14	HM 4 (C)	HAU	BC	PE394	1811	1823

Popcorn Trial I-II-III-Pathology-Entomology

Trial No. : Popcorn
Year (Season): 2016 (Kharif)
Replication : 2
Row No. : 2
Row Length: 4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi Hyderabad, Arbhavi, Coimbatore, Mandya (2), Udaipur (2), Barapani
Nematology: Udaipur
Soil Science: Pantnagar
Entomology: New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

E.No.	Name	Institute/orga.	Trial	IIMR Code	R1	R2
1	DPCH-306	Pantnagar	PC I	PE391	1863	1875
2	IMHP-1535	IIMR New Delhi	PC II	PE392	1855	1878
3	ROBUST 265	SABAR AGRO SEEDS	PC I	PE393	1857	1870
4	AP6005	SABAR AGRO SEEDS	PC I	PE394	1861	1871
5	IHPC-1201	Godhara Gujarat	PC I	PE395	1856	1872
6	ROBUST 427	SABAR AGRO SEEDS	PC I	PE396	1860	1876
7	IMHP 1540	IIMR New Delhi	PC II	PE397	1858	1867
8	IHPC-1203	Godhara Gujarat	PC I	PE398	1854	1868
9	Pop corn	Sri Jaya shree Food Products	PC I	PE399	1852	1865
10	SJPC1	SKUAST Jammu	PC II	PE400	1859	1873
11	DMRHP-1402	IIMR New Delhi	PC III	PE401	1864	1869
12	AP2202	SABAR AGRO SEEDS	PC I	PE402	1851	1874
13	MPC 1-15	TCA Dholi	PC II	PE403	1853	1877
14	VL Amber Popcorn (C)	Almora	PC	PE404	1862	1866

TRIAL 75 Late (AVT-I-II)

Trial No. : 75 Pathology, Entomology Late Maturity
Year (Season): 2016-Kharif
Replication : 2
Row No. : 2
Row Length: 4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi Hyderabad, Arbhavi, Coimbatore, Mandya (2), Udaipur (3), Barapani
Nematology: Udaipur
Soil Science: Pantnagar
Entomology:IIMR-New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

E.No.	Name	Institute/orga.	Trial No.	IIMR Code	R1	R2
	AVT-I Late					
1	DKC8161 (IP8570)	Monsanto India Ltd.	Tr 75	PE580	2300	2341
2	KMH-2852	Kaveri seed company limited	Tr 75	PE581	2323	2347
3	C.P 802	C.P Seed India Ltd.	Tr 75	PE582	2312	2333
4	PM15103L	PHI Seed Ltd.	Tr 75	PE583	2314	2331
5	DKC9164 (IP9002)	Monsanto India Ltd.	Tr 75	PE584	2302	2328
6	PM15104L	PHI Seed Ltd.	Tr 75	PE585	2311	2327
7	DKC9163 (IP8703)	Monsanto India Ltd.	Tr 75	PE586	2308	2335
8	VNR-31565 (IMR-143)	VNR SEED PVT. LTD.	Tr 75	PE587	2315	2343
9	SMH-3902	NO	Tr 75	PE588	2305	2326
10	CMH12-686	TNAU	Tr 75	PE589	2307	2337
11	DKC9167 (IP8708)	Monsanto India Ltd.	Tr 75	PE590	2320	2334
12	SYN516753	SYNGENTA	Tr 75	PE591	2319	2339
13	DAS-MH-111	Dow AgroSciences	Tr 75	PE592	2310	2344
14	ADV 7022	Advanta India Limited	Tr 75	PE593	2304	2340
15	CMH12-688	TNAU	Tr 75	PE594	2313	2338
16	BL 103	Bisco Bio Sciences Pvt.Ltd.	Tr 75	PE595	2303	2332
	AVT-II Late					
17	HT 51412616	Hytech Seed India Private Li	Tr 75	PE596	2322	2342
18	DKC9151(IN8902)	Monsanto India Ltd.	Tr 75	PE597	2317	2346
19	DMH192	METAHELIX	Tr 75	PE598	2301	2329
20	ADV 0990296		Tr 75	PE599	2309	2336
21	KH-2192	K.G.S.C.Pvt.Lim	Tr 75	PE600	2306	2345
22	PMH 1 (C)	PAU Ludhiana	Tr 75	PE601	2318	2330
23	Seed tech 2324(C)	Bisco Bio Sciences Pvt.Ltd.	Tr 75	PE602	2321	2325
24	Bio -9681(C)	BIO SEEDS LTD.	Tr 75	PE603	2316	2324

TRIAL 76 Medium (AVT-I-II)

Trial No. : 75 Pathology, Entomology Medium Maturity
Year (Season): 2016-Kharif
Replication : 2
Row No. : 2
Row Length: 4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi Hyderabad, Arbhavi, Coimbatore, Mandya (2), Udaipur (3), Barapani
Nematology: Udaipur
Soil Science: Pantnagar
Entomology:IIMR-New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

E.No.	Name	Institute/orga.	Trial No.	IIMR Code	R1	R2
	AVT-I Medium					
1	IIMRNH 2015-4	IIMR Ludhiana	Tr.76	PE610	2354	2380
2	BL 107	Bisco Bio Sciences Pvt.Ltd.	Tr.76	PE611	2352	2374
3	KMH-13-5	SAREC, Kangra	Tr.76	PE612	2362	2369
4	JH 13348	PAU Ludhiana	Tr.76	PE613	2367	2384
5	LMH 615	CSKHPKV, HAREC Bajaura	Tr.76	PE614	2358	2370
6	BL 106	Bisco Bio Sciences Pvt.Ltd.	Tr.76	PE615	2355	2376
7	VaMH 12014	Vagarai	Tr.76	PE616	2363	2373
8	JKMH 4103	JK seeds	Tr.76	PE617	2360	2381
9	JH 13347	PAU Ludhiana	Tr.76	PE618	2357	2371
10	HM15206	METAHELIX	Tr.76	PE619	2361	2377
11	HM15207	METAHELIX	Tr.76	PE620	2359	2378
	AVT-II Medium					
12	JH 31605	PAU Ludhiana	Tr.76	PE621	2353	2379
13	C.P 201	C.P Seed India Ltd.	Tr.76	PE622	2365	2382
14	JKMH 4848	JK seeds	Tr.76	PE623	2351	2383
15	Bio 9637(C)	BIO SEEDS LTD.	Tr.76	PE624	2364	2372
16	HM9(C)	CCS HAU RRS Karnal	Tr.76	PE625	2356	2368
17	PMH4-C	PAU Ludhiana	Tr.76	PE626	2366	2375

TRIAL 77 Early (AVT-I-II)

Trial No. : 77 Pathology, Entomo Early Maturity
Year (Season): 2016-Kharif
Replication : 2
Row No. : 2
Row Length: 4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi Hyderabad, Arbhavi, Coimbatore, Mandya (2), Udaipur (3), Barapani
Nematology: Udaipur
Soil Science: Pantnagar
Entomology: IIMR-New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

E.No.	Name	Institute/orga.	Trial No.	IIMR Code	R1	R2
	AVT-I Early					
1	KMH-13-15	SAREC, Kangra	Tr.77	PE631	2398	2405
2	FH 3754	VPKAS Almora	Tr.77	PE632	2394	2401
3	JH 31785	PAU Ludhiana	Tr.77	PE633	2393	2406
4	JKMH 4222	JK seeds	Tr.77	PE634	2395	2402
5	AH-7006	IARI-RRC, Dharwad	Tr.77	PE635	2392	2400
6	DMRH 1305	IIMR New Delhi	Tr.77	PE636	2396	2403
7	PMH-5(C)	PAU Ludhiana	Tr.77	PE637	2391	2404
8	Prakash(C)	PAU Ludhiana	Tr.77	PE638	2397	2399

Locations of AICRP trials-Kharif 2016

LOCATIONS OF AICRP TRIALS DURING KHARIF 2016

S. No	Abbreviations	Locations	S. No.	Abbreviations	Locations
1	SRIN	SRINAGAR	34	KALY	KALYANI
2	ALMO	ALMORA	35	HYDE	HYDERABAD
3	BAJA	BAJAURA	36	SHEG	SHEGAL FOUNDATION
4	UDHA	UDHAMPUR	37	KARI	KARIMNAGAR
5	KANG	KANGRA	38	VRDC	VRDC KSSC
6	BERT	BERTIN	39	DHAR	DHARWAD
7	DHAU	DHAULAKUAN	40	KOLH	KOLHAPUR
8	BARA	BARAPANI	41	ARBH	ARBHAVI
9	GOSS	GOSSAIGAON	42	MAND	MANDYA
10	POON	POONCH	43	VAGA	VAGARAI
11	RAJO	RAJOURI	44	COIM	COIMBATORE
12	IMPH	IMPHAL	45	DEVI	DEVIHOSUR
13	LUDH	LUDHIANA	46	ALME	ALMEL
14	KARN	KARNAL	47	BELA	BELAVATAGI
15	DELH	DELHI	48	DHUL	DHULE
16	KANP	KANPUR	49	PARB	PARBHANI
17	PANT	PANTNAGAR	50	NIPH	NIPHAD
18	HISA	HISAR	51	RAHU	RAHURI
19	ALIG	ALIGARH	52	UDAI	UDAIPUR
20	JHAN	JHANSI	53	BANS	BANSAWARA
21	GURD	GURDASPUR	54	CHHI	CHHINDWARA
22	KAPU	KAPURTHALA	55	AMBI	AMBIKAPUR
23	DHOL	DHOLI	56	GODH	GODHRA
24	RANC	RANCHI	57	JHAB	JHABUA
25	BHUB	BHUBANESHWAR	58	BHIL	BHILODA
26	VARA	VARANASI	59	DAHO	DAHOD
27	BAHR	BAHRAICH	60	RAIP	RAIPUR
28	MEDI	MEDINAPUR	61	JAGD	JAGDALPUR
29	KORA	KORAPUT	62	UJJA	UJJAIN
30	MADH	MADHOPUR	63	INDO	INDORE
31	CHHA	CHHAPRA	64	KOTA	KOTA
32	SABO	SABOUR	65	CHIT	CHITTARKOOT
33	MOHA	MOHANPUR			

BREEDING

17	PERFORMANCE OF EARLY MATURITY EXPERIMENTAL HYBRIDS AT UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA, JHABHUA, BHILODA, DAHOD, RAIPUR, JAGADALPUR, KOTA, CHITRAKOOT IN TRIAL No. TR67Z5 (AVT-I EARLY-CWZ) DURING KHARIF 2016	BR-347
	QPM TRIAL	
18	PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, IMPHAL, LUDHIANA, KARNAL, DELHI, KANPUR, PANTNAGAR, DHOLI, BHUBANESHWAR, RANCHI, VARANASI, BAHRAICH, KALYANI, SABOUR, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, COIMBATORE, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA IN TRIAL No. TRQPM I-II-III DURING KHARIF 2016	BR-353
	SPECIALTY CORNS	
19	PERFORMANCE OF POPCORN EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, IMPHAL, LUDHIANA, KARNAL, DELHI, KANPUR, PANTNAGAR, DHOLI, BHUBANESHWAR, RANCHI, BAHRAICH, KALYANI, SABOUR, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, COIMBATORE, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA IN TRIAL No. TRPOPCORN I-II-III DURING KHARIF 2016	BR-393
20	PERFORMANCE OF SWEET CORN EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, IMPHAL, LUDHIANA, KARNAL, DELHI, PANTNAGAR, DHOLI, BHUBANESHWAR, RANCHI, VARANASI, BAHRAICH, KALYANI, SABOUR,HYDERABAD, KARIMNAGAR, DHARWAD,MANDYA, COIMBATORE, RAHURI, UDAIPUR, BANSWARA, CHHINDWARA, AMBIKAPUR, GODHRA IN TRIAL No. TR SWEETCORN DURING KHARIF 2016	BR-416
21	PERFORMANCE OF BABY CORN EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, IMPHAL, KARNAL, KANPUR, DELHI, PANTNAGAR, DHOLI, BHUBANESHWAR, RANCHI, VARANASI, BAHRAICH, KALYANI, SABOUR, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, COIMBATORE, RAHURI, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA IN TRIAL No. TRBABYCORN DURING KHARIF 2016	BR-445
	RAINFED TRIALS	
22	PERFORMANCE OF LATE MATURITY EXPERIMENTAL HYBRIDS AT DHARWAD, VAGARAI, BANSAWARA, BHILODA, CHHINDWARA IN TRIAL No. TR RAINFED NORMAL SET LATE MATURITY DURING KHARIF 2016	BR-467
23	PERFORMANCE OF LATE MATURITY EXPERIMENTAL HYBRIDS AT DHARWAD, VAGARAI, KOLHAPUR, BANSWARA, BHILODA, CHHINDWARA, UDAIPUR IN TRIAL No. TR RAINFED SET LATE MATURITY DURING KHARIF 2016	BR-480
24	PERFORMANCE OF EXPERIMENTAL HYBRIDS AT DHARWAD, VAGARAI, KOLHAPUR, BANSAWARA, BHILODA, CHHINDWARA, IN TRIAL No. TR RAINFED NORMAL SET EARLY & EXTRA EARLY DURING KHARIF 2016	BR-493
25	PERFORMANCE OF EXPERIMENTAL HYBRIDS AT DHARWAD, VAGARAI, KOLHAPUR, BANSAWARA, BHILODA, CHHINDWARA, UDAIPUR IN TRIAL No TR RAINFED SET EARLY & EXTRA EARLY DURING KHARIF 2016	BR-501

Summary -Breeding Trials, AICRP Kharif 2016

The entire maize growing area in India is divided in five major zones [Northern Hill Zone (NHZ), North West Plain Zone (NWPZ), North East Plain Zone (NEPZ), Peninsular Zone (PZ) and Central West Zone (CWZ)] for effective evaluation of the maize breeding materials and experimental cultivars. The details of maize growing states included in these zones are given below:

Zone	**State(s)**
Northern Hill Zone (NHZ)	Jammu and Kashmir, Himachal Pradesh, Uttarakhand (Hill region), North Eastern Hill Regions (Meghalaya, Sikkim, Assam, Tripura, Nagaland, Manipur, Arunachal Pradesh)
North West Plain Zone (NWPZ)	Punjab, Haryana, Delhi, Uttarakhand (Plain), Uttar Pradesh (Western region)
North East Plain Zone (NEPZ)	Bihar, Jharkhand, Odisha, Uttar Pradesh (Eastern region), West Bengal
Peninsular Zone (PZ)	Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu
Central West Zone (CWZ)	Rajasthan, Madhya Pradesh, Chhattisgarh, Gujarat

During *Kharif* 2016, 298 maize entries were evaluated in all India coordinated trials. Of 298 entries, 200 entries were evaluated in national initial varietal trial (NIVT), 33 in advance varietal trial-I (AVT-I), 8 in advance varietal trial-II (AVT-II), 21 entries in quality protein maize (QPM), and 36 in specialty corns trials (13 in baby corn, 10 in sweet corn, and 13 in popcorn trials). Of total entries received, 199 were contributed from public and 99 by the private sector. Fifteen breeding trials (four each of NIVT, AVT-I, specialty corns and three of AVT-II) were constituted for evaluation at 65 locations (34 regular and 31 volunteers) across country. Data received from was reviewed and analyzed critically for yield and related traits. The performance of each variety was compared with 29 relevant checks varieties of different types and maturity in a zone. The test entries were promoted from first year (NIVT) to second year (AVT-I) on the basis of criteria given below:

i) Promotion criteria (Yield): Entries must be numerically superior over the best check and should have non-significant differences in yield from the best entry (rank 1st) of the trial at CD (P=0.05)

ii) In early and medium trials, besides yield, the test entry should not exceed the relevant best check by 1.5 days in days to 50% silking

iii) The disease reaction of test entries to the diseases of zonal/regional importance was considered while promotion

iv) In specialty corn, besides yield, the quality parameters were also considered while promotion e.g. (QPM: % Trp ≥0.6; SC: TSS ≥ 15%; PC: Popping % age ≥ 80%), (Note: all quality parameters were analyzed in self (TSS, Popping %) and chain crossed (Lys, Trp) kernels

The entries were promoted from second year (AVT-I) to third (AVT-II) based on the 5% (sweet corn, popcorn, QPM and baby corn trials) and 10% grain yield superiority (in late, medium, and early) over the best relevant check of zone for their mean yield. Besides yield superiority, responses to major diseases of maize in a zone as well as days to 50% silking (Only in medium, and early maturity) were the other important criteria to promote a test entry for particular zone.

If C.V. value found more than 20% for a trial in any of location of NWPZ, NEPZ, PZ and more than 30% for location of NHZ and CWZ, then the data of those trials were rejected from the final analysis. Similarly, if trial mean is falling below state average yield of the year then the same location has been rejected from the analysis.

The details of checks used and number of coordinated varietal trials conducted under All India Coordinated Research project (AICRP) on Maize Improvement during *Kharif* 2016 are given below:

Detail numbers of test entries and checks evaluated in 15 different AICRP-breeding Trials during Kharif 2016:

Trial	Entries	Checks varieties	Mode of operation
NIVT-Late Maturity (A+B)	92	Bio 9682, CMH08-287, CMH 08-282	Across zones
NIVT-Medium Maturity (A+B)	73	CMH08-292, BIO 9544, DHM 121	Across zones
NIVT-Early Maturity	31	BIO605 , PMH5,DKC7074	Across zones
NIVT-Extra Early Maturity	4	Vivek Hybrid 51, Vivek Hybrid 45	Across zones
AVT-I –Late Maturity	16	PMH1, Seed Tech 2324, Bio 9681	Zone specific
AVT-I-Medium Maturity	11	PMH4, Bio 9637, HM9	Zone specific
AVT-I-Early Maturity	6	Prakash, PMH5,	Zone specific
AVT-II-Late Maturity	5	PMH1, Seed Tech 2324, Bio 9681	Zone specific
AVT-II-Medium Maturity	3	PMH4, Bio 9637, HM9	Zone specific
QPM 1-2-3	21	HQPM1, HQPM4, HQPM5, HQPM7, Vivek QPM9, Pratap QPM Hybrid 1	Across zones
Popcorn-1-2-3	13	VL Amber Popcorn	Across zones
Sweet Corn-1-2-3	10	Madhuri, Misthi, Priya	Across zones
Baby Corn-1	13	HM4	Across zones

Details of trials allotted to various testing centers:

Total of 65 locations (34 regulars and 31 volunteer) were identified for evaluation of fifteen different breeding trials. The detail of trials allotted to various test centers during *Kharif* 2016 is given below:

TRIAL ALLOTMENT KHARIF 2016--BREEDING																					
	Location		National Initial Varietal Trial					Advance Varietal Trial I					Advance Varietal Trial II						Specialty Corns Trials		
S. N	NHZ (Zone-I)	State	L	M	E	EE		L	M	E	EE		L	M	E	EE		QPM	SC	PC	BC
1	Almora	UK	--	*	*	*		--	*	*	--		--	--	--	--		*	*	*	*
2	Bajaura	H.P	--	*	*	*		--	*	*	--		--	--	--	--		*	*	*	*
3	Srinagar	J&K	--	*	*	*		--	*	*	--		--	--	--	--		--	--	--	--
4	Udhampur	J&K	--	*	*	*		--	*	*	--		--	--	--	--		--	--	--	--
5	Kangra	H.P	--	*	*	*		--	*	*	--		--	--	--	--		*	*	*	*
6	Bertin	H.P	--	--	--	--		--	*	*	--		--	--	--	--		--	--	--	--
7	Dhaulakuan	H.P	--	--	--	--		--	*	*	--		--	--	--	--		--	--	--	--
8	Barapani	MEG	--	*	*	*		--	*	*	--		--	--	--	--		*	--	--	--
9	Gossaiogaon	AS	--	*	*	*		--	*	*			--	--	--	--		--	--	--	--
10	Poonch	J&K	--	--	--	--		--	*	*	--		--	--	--	--		--	--	--	--
11	Rajouri	J&K	--	--	--	--		--	*	*	--		--	--	--	--		--	--	--	--
12	Imphal	MN	--	--	--	--		--	*	*	--		--	--	--	--		*	*	*	*
	NWPZ (ZONE-II)																				
13	Ludhiana	PB	*	*	*	*		*	*	--	--		--	*	--	--		*	*	*	*
14	Delhi	Del	--	--	--	--		--	--	--	--		--	--	--	--		*	*	*	*
15	Karnal	HR	*	*	*	*		*	*	--	--		--	*	--	--		*	*	*	*
16	Kanpur	UP	*	*	*	*		*	*	--	--		--	*	--	--		*	*	*	*
17	Pantnagar	UK	*	*	*	*		*	*	--	--		--	*	--	--		*	*	*	*
18	Hisar	HR	--	--	--	--		*	*	--	--		--	*	--	--		--	--	--	--
19	Aligarh	UP	--	--	--	--		*	*	--	--		--	*	--	--		--	--	--	--
20	Jhansi	UP	--	--	--	--		*	*	--	--		--	*	--	--		--	--	--	--
21	Gurdaspur	PB	--	--	--	--		*	*	--	--		--	*	--	--		--	--	--	--
22	Kapurthala	PB	--	--	--	--		*	*	--	--		--	*	--	--		--	--	--	--
	NEPZ (ZONE-III)																				

23	DHOLI	BH	*	*	*	*		*	*	--	--		--	--	--	--		*	*	*	*
24	Ranchi	JKH	*	*	*	*		*	*	--	--		--	--	--	--		*	*	*	*
25	Bhubaneshwar	OD	*	*	*	*		*	*	--	--		--	--	--	--		*	*	*	*
26	Varanasi	UP	*	*	*	*		*	*	--	--		--	--	--	--		*	*	*	*
27	Bahraich	UP	*	*	*	*		*	*	--	--		--	--	--	--		*	*	*	*
28	Medinapur	WB	--	--	--	--		*	*	--	--		--	--	--	--		--	--	--	--
29	Koraput	OD	--	--	--	--		*	*	--	--		--	--	--	--		--	--	--	--
30	RRS Madhopur	BH	--	--	--	--		*	*	--	--		--	--	--	--		--	--	--	--
31	Chhapra	BH	--	--	--	--		*	*	--	--		--	--	--	--		--	--	--	--
32	Sabour	BH	*	*	*	*		*	*	--	--		--	--	--	--		*	*	*	--
33	Mohanpur	WB	--	--	--	--		*	*	--	--		--	--	--	--		--	--	--	--
34	Kalyani	WB	--	--	--	--		*	*	--	--		--	--	--	--		*	*	*	--
	PZ (ZONE-IV)																				
35	Hyderabad	AP	*	*	*	*		*	*	*	--		*	*	--	--		*	*	*	*
36	Sehgal Foud.	AP	--	--	--	--		*	*	*	--		*	*	--	--		--	--	--	--
37	Karimnagar	AP	*	*	*	*		*	*	*	--		*	*	--	--		*	*	*	*
38	VRDC KSSC-Dharwad	KR	--	--	--	--		*	*	*	--		*	*	--	--		--	--	--	--
39	Dharwad	KR	*	*	*	*		*	*	*	--		*	*	--	--		*	*	*	*
40	Kolhapur	MH	*	*	*	*		*	*	*	--		*	*	--	--		*	*	*	*
41	Arbhavi	KR	--	--	--	--		*	*	*	--		*	*	--	--		--	--	--	--
42	Mandya,	KR	*	*	*	*		*	*	*	--		*	*	--	--		*	*	*	*
43	Vagarai	TN	*	*	*	*		*	*	*	--		*	*	--	--		--	--	--	--
44	Coimbatore	TN	*	*	*	*		*	*	*	--		*	*	--	--		*	*	*	*
45	ARS Devihosur	KR	--	--	--	--		*	*	*	--		*	*	--	--		--	--	--	--
46	Almel	KR	--	--	--	--		*	*	*	--		*	*	--	--		--	--	--	--
47	ARS Belavatagi	KR	--	--	--	--		*	*	*	--		*	*	--	--		--	--	--	--
48	Dhule	MH	--	--	--	--		*	*	*	--		*	*	--	--		--	*	--	--
59	Parbhani	MH	--	--	--	--		*	*	*	--		*	*	--	--		--	--	--	--
50	Niphad, Nasik	MH	--	--	--	--		*	*	*	--		*	*	--	--		--	--	--	--
51	Rahuri	MH	*	*	--	--		*	*	*	--		*	*	--	--		--	*	--	--
	CWZ (ZONE-V)																				
52	Udaipur	RJ	*	*	*	*		*	*	*	--		*	--	--	--		*	*	*	*
53	Banswara	RJ	*	*	*	*		*	*	*	--		*	--	--	--		*	*	*	*

54	**Chindwara**	**MP**	*	*	*	*		*	*	*	--		*	--	--	--		*	*	*	*
55	**Godhara**	**GUJ**	*	*	*	*		*	*	*	--		*	--	--	--		*	*	*	*
56	**Jabhua**	**MP**	*	*	*	*		*	*	*			*	--	--	--		--	--	--	--
57	**Ambikapur**	**CHG**	*	*	*	*		*	*	--	--		--	--	--	--		*	*	*	*
58	**Bhiloda**	**GUJ**	--	--	--	--		*	*	*			*	--	--	--		--	--	--	--
59	**AAR Dahod**	**GUJ**	--	--	--	--		*	*	*			*	--	--	--		--	--	--	--
60	**Raipur**	**CHG**	--	--	--	--		*	*	*			*	--	--	--		--	--	--	--
61	**Jagadalpur**	**CHG**	--	--	--	--		*	*	*			*	--	--	--		--	--	--	--
62	**RARS Ujjain**	**MP**	--	--	--	--		*	*	*			*	--	--	--		--	--	--	--
63	**ZARS, Indore**	**MP**	--	--	--	--		*	*	*			*	--	--	--		--	--	--	--
64	**ARS, Kota**	**RJ**	--	--	--	--		*	*	*			*	--	--	--		--	--	--	--
65	**Chittarkoot**	**MP**	--	--	--	--		*	*	*			*	--	--	--		--	--	--	--

Note:

1. Due to less number of testing entries, AVT-I and II Trials has been clubbed according to their maturity groups

2. *- represents the trial allotted, whereas -- represents trial not allotted

3. L, M, E, EE, designated here for the Late, Medium, Early and Extra early, whereas QPM, PC, SC, BC represented for Quality protein maize, Popcorn, Sweet corn and Baby corn trials

During *kharif* 2016, different breeding trials were organized at 12 test locations in NHZ, 10 in NWPZ, 12 in NEPZ, 17 in PZ and 14 test locations in CWZ. All entries were tested under three maturity group viz., late, medium, and early (extra early clubbed with early). In PZ, the lowest success rate in term of trial reporting was identified. Besides AICRP testing, rainfed trials were also constituted for late and early maturity. They were evaluated in PZ, and CWZ under normal and rainfed conditions.

The details of success rate in reporting the data from each zone is given below:

Zone(s)	Centers	Volunteer centers			Regular centers			Overall % Success rate
		Trial			Trial			
		Allott	Reported	% Success	Allotted	Reported	% Success	
NHZ	Srinagar,*Almora*,Bajaura,*Barapani*,Kangra *Gossaingaon*, Udhampur, Poonch, Bertin, *Dhaulakuan*, Rajauri, *Imphal*	8	6	75	54	40	74.1	74.2
NWPZ	Ludhiana,Karnal, Delhi, Kanpur, Pantnagar, *Hisar*, Aligarh, *Jhansi*, Gurdaspur, *Kapurthala*	15	6	40	50	48	96.0	83.1
NEPZ	Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Medinapur, Koraput, *Madhopur*, *Chhapra*, Sabour, *Mohanpur*, Kalyani	10	1	10	64	51	79.7	70.3
PZ	*Arabhavi*, Mandya, Karimnagar, *Sehgal Foud.* Hyd, *Hyderabad*, Coimbatore, Vagarai, *Kolhapur*, *Dharwad*, *VRDCKSSC*, *Devihosur*, *Almel*, *Belavatagi*, Dhule, Parbhani, Nasik, *Rahuri*	50	19	38	95	78	82.1	66.9
CWZ	Udaipur, Banswara, Chindwara, Ambikapur, Godhra, *Jabhua*, Bhiloda, Dahod, Raipur, Jagadalpur, Ujjain, *Indore*, *Kota*, chittarkoot	32	24	75	68	64	94.1	88.0

(Centers in italics are the contributory for non-reporting of data in the final zonal mean)

- The trials mean *versus* highest grain yield (kg/ha) found in different maturity groups of normal maize at initial and advance stages of testing in various zones across the country is given below.

	NIVT Yield (kg/ha)						AVT-I(kg/ha)						AVT-II(kg/ha)			
Zone	Late (61A, B)		Medium (62A, B)		Early (63,64)		Late (65)		Medium (66)		Early (67)		Late(69)		Medium (70)	
	Mean	1st Rank	Mean	1st Rank	Mean	1st Rank	Mean	1st Rank	Mean	1st Rank	Mean	1st Rank	Mean	1st Rank	Mean	1st Rank
NHZ	.....	.....	7596	9278	6821	8094	.....	.....	7455	8197	6775	7840	.....	.....	.....	.....
NWPZ	8143	9691	8110	10012	6406	7873	8234	8847	7332	8247	.....	.....	.....	.....	7332	8247
NEPZ	5764	7511	5666	7409	4750	6179	5975	7201	5979	7815	.....	.....	.....	.....	.....	.....
PZ	8412	10408	7686	9489	6355	8988	8541	9213	8221	8979	7292	8968	8541	9213	8221	8979
CWZ	6078	7901	6286	7725	4677	6647	6669	7705	5795	6971	5026	6005	6669	7705	.....	.....

Note..... Represent no trials were available for testing in zone

TABLE No. 1 **PERFORMANCE OF LATE EXPERIMENTAL HYBRIDS AT LUDHIANA, KARNAL, KANPUR, PANTNAGAR, DHOLI, RANCHI, BHUBANESHWAR, VARANASI, BAHRAICH, SABOUR, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, VAGARAI, COIMBATORE, RAHURI, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA, JHABHUA IN TRIAL No. TR61A (NIVT LATE) DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								NWPZ ZN 2												NEPZ ZN 3	
		LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	SABO	R	MEAN	R
1	BLH 115	10353	8	7999	9	7713	46	9102	18	8792	23	3629	27	8557	9	5306	31	6026	15	6109	19	10219	6	7244	12
2	GH-1427	8290	29	7772	14	10909	13	5968	42	8235	27	3510	32	6199	32	4145	46	4854	29	3442	45	7489	32	5226	39
3	SYN617328	9607	17	7438	19	9703	28	6288	38	8259	26	5574	1	9776	1	6565	8	6221	13	6875	10	8194	26	7526	5
4	CMH11-583	8236	31	8259	4	10982	11	9763	11	9310	10	3088	45	3537	45	5584	26	4504	34	3353	47	7764	29	4948	45
5	CCH 9241	10263	9	5646	49	11100	10	9961	10	9243	12	3762	24	6114	34	4783	42	3868	39	4968	30	7580	31	5463	35
6	VaMH 13024	7843	36	8038	8	10139	26	9419	16	8860	20	4358	13	6193	33	5595	25	3709	40	4828	33	7697	30	5604	33
7	GK3202	9622	16	7514	17	10920	12	8600	26	9164	14	3269	38	7852	17	4986	39	6300	10	7763	4	10491	5	7478	9
8	OMH 14-55 (CAH1537)	7969	34	7419	20	10437	20	5889	43	7928	33	3101	44	6939	24	4889	41	3282	41	4963	31	5976	41	5210	41
9	SYN616734	8449	27	6913	27	10766	16	6580	36	8177	28	3134	43	8420	12	4140	47	6657	6	6053	20	7440	33	6542	22
10	PM16103L	11435	1	6374	35	10567	18	8875	20	9313	9	4792	8	6029	35	6310	16	7698	1	7170	9	10071	8	7455	10
11	VNR 3Y069	9039	23	6206	39	9586	30	6906	33	7934	32	4511	11	7651	19	4905	40	4933	28	5783	22	8005	27	6256	25
12	KH-16-149	7790	38	6726	29	10273	23	6240	40	7757	41	3881	22	3126	47	4641	43	4659	30	3194	49	7818	28	4688	47
13	JKMH 4152	8178	33	8484	2	11423	9	8310	29	9099	15	3305	36	5482	38	5090	37	3263	43	5230	25	8693	21	5551	34
14	JH 13278	10615	6	6335	36	11943	5	9397	17	9573	5	4938	6	8521	10	6519	9	6426	9	6490	16	9607	13	7513	7
15	MM9333	10074	11	6928	26	11587	7	10777	3	9842	2	3544	28	8640	8	7165	1	7514	3	4628	36	9611	12	7511	8
16	KMH-5022	9193	20	7385	21	10024	27	8619	25	8805	22	3972	19	6999	23	5353	30	5521	22	6435	17	9065	18	6675	18
17	MM 2030	9715	15	7295	22	10512	19	8459	28	8995	16	3691	26	8074	16	5212	34	5637	18	5134	28	8618	24	6535	23
18	OMH 14-16 (CAH1424)	7096	42	7624	16	10180	25	10579	4	8870	19	5291	4	5420	39	4553	44	5052	25	4063	39	7286	34	5275	37
19	C.P 888	8221	32	7782	13	10323	22	4084	49	7603	43	3422	33	7414	20	5281	33	2719	47	4736	34	4802	48	4991	42
20	DH-300	6882	43	6394	34	11982	4	9614	14	8718	24	3827	23	8465	11	5679	22	3216	44	8347	1	5492	46	6240	26
21	X-7	8796	25	6707	31	11468	8	8806	21	8944	18	3137	42	7400	21	4021	48	5586	19	7538	6	8196	25	6548	21
22	PM16101L	8586	26	5876	45	12246	2	4606	46	7828	38	3300	37	6666	28	5439	28	4095	36	4044	40	9617	11	5972	29
23	MM 2626	9492	18	8307	3	10787	15	11150	2	9934	1	3532	29	8849	6	6959	2	4946	27	6776	12	10077	7	7521	6
24	GH-1436	5827	49	7865	11	10216	24	7515	30	7856	35	2827	47	3192	46	5380	29	4556	32	3634	43	3941	49	4140	48
25	IMHBG-2016-3	8341	28	6723	30	9607	29	6049	41	7680	42	3908	20	6802	25	5139	36	4639	31	7642	5	9407	15	6726	16
26	GK3204	10380	7	7967	10	9482	32	9673	13	9375	7	3697	25	7672	18	4505	45	3968	38	7220	8	9548	14	6583	19
27	HT 16607	9716	14	6635	32	12351	1	10139	8	9710	3	4331	14	8259	14	6781	4	5047	26	6496	15	8643	23	7045	14
28	X-6	10963	3	7266	23	10427	21	8531	27	9296	11	5517	2	8998	4	6757	5	6071	14	6849	11	10827	3	7900	2
29	CMH11-591	7632	39	6454	33	11592	6	5646	44	7831	37	3158	41	2149	49	5078	38	3270	42	3481	44	9802	10	4756	46
30	VNR 33051	9780	13	7226	24	10690	17	10027	9	9431	6	3514	30	7103	22	6432	10	4542	33	5666	23	9910	9	6731	15
31	CCH 167	6658	45	8681	1	12044	3	9579	15	9241	13	3403	35	6750	26	5821	20	6240	11	5206	26	8851	20	6574	20
32	KMH-24752	9115	21	6221	38	8246	41	9004	19	8146	29	4069	18	4939	42	5689	21	7579	2	6012	21	9279	16	6699	17
33	OMH 1462 (CAH 142)	9083	22	7812	12	9257	34	9746	12	8974	17	4170	17	5935	36	6395	12	4007	37	3832	42	7004	35	5434	36
34	KH-POLO Gold	7509	40	7727	15	9486	31	6385	37	7777	40	3231	39	8651	7	6345	14	2137	48	3222	48	5738	43	5219	40
35	TMMH 838	6521	46	8118	5	8594	39	4354	48	6897	48	4535	10	2818	48	5453	27	1841	49	4697	35	5496	45	4061	49
36	ADV 9233	10829	4	5930	43	7654	48	10178	7	8648	25	2908	46	8193	15	6350	13	5453	23	3404	46	5401	47	5760	30

TABLE No. 1 **PERFORMANCE OF LATE EXPERIMENTAL HYBRIDS AT LUDHIANA, KARNAL, KANPUR, PANTNAGAR, DHOLI, RANCHI, BHUBANESHWAR, VARANASI, BAHRAICH, SABOUR, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, VAGARAI, COIMBATORE, RAHURI, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA, JHABHUA IN TRIAL No. TR61A (NIVT LATE) DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE LUDH	R	KARN	R	KANP	R	PANT	R	NWPZ ZN 2 MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	SABO	R	NEPZ ZN 3 MEAN	R
37	OMH 14-27 (CAH1511)	9370	19	7448	18	9271	33	5511	45	7900	34	2646	48	6461	31	5647	23	7086	4	8164	2	9190	17	7310	11
38	HM16305	8840	24	5753	48	8929	38	8799	22	8080	31	3885	21	8960	5	5144	35	6492	7	6507	14	8679	22	7156	13
39	CMH11-586	6257	48	6305	37	7688	47	6751	35	6750	49	3410	34	4325	43	5603	24	3022	46	5168	27	6692	38	4962	43
40	DKC 9178(IQ8623)	10702	5	8051	7	6740	49	13236	1	9682	4	4173	16	9733	2	6430	11	6239	12	5450	24	11337	1	7838	3
41	PM16104L	11131	2	6050	42	7948	43	10210	6	8835	21	4933	7	8312	13	5306	32	6849	5	6355	18	10857	2	7536	4
42	Star-9	7215	41	6161	40	7825	44	6857	34	7014	46	4185	15	5667	37	6210	18	4293	35	3983	41	6059	40	5242	38
43	PM16102L	6873	44	6741	28	9043	36	6979	32	7409	44	3165	40	6641	29	6609	7	3062	45	7472	7	6965	36	6150	28
44	DH-301	8250	30	5794	47	8164	42	6266	39	7119	45	2634	49	4007	44	6891	3	5439	24	4884	32	6821	37	5609	32
45	BH 414012	6296	47	8051	6	9009	37	4582	47	6985	47	5304	3	5153	41	3816	49	5550	21	4541	37	5694	44	4951	44
46	BLH 114	10087	10	5851	46	10888	14	10550	5	9344	8	3513	31	6610	30	6224	17	5852	16	6554	13	5827	42	6213	27
	CHECKS																								
47	BIO 9682(C)	7838	37	6976	25	9118	35	7443	31	7844	36	4471	12	5188	40	6330	15	5562	20	5018	29	6319	39	5683	31
48	CMH 08-287(C)	10035	12	5916	44	7820	45	8774	23	8136	30	4571	9	9122	3	6737	6	5837	17	8068	3	10628	4	8078	1
49	CMH 08-282(C)	7919	35	6152	41	8414	40	8639	24	7781	39	5259	5	6694	27	6021	19	6482	8	4189	38	8901	19	6457	24
	Location Mean	**8753**		**7047**		**9920**		**8151**		**8468**		**3877**		**6748**		**5637**		**5057**		**5544**		**8115**		**6220**	
	C.D. (5%)	1747		653		822		1964		1297		1727		2099		471		1235		830		2034		1334	
	C.V. (%)	12.31		5.72		5.11		14.87		-		**27.48**		15.46		5.16		12.14		9.24		15.46		-	
	F (Prob)	0		0		0		0				0.027		0		0		0		0		0			
	Plot Size	4.8		6		4.8		4.5		-		6		5.6		4.8		4.8		4.8		4.8		-	
	AGRONOMY DATA																								
	Sowing Date	21-06		25-06		23-07		29-06		-		25-06		29-06		22-06		23-06		20-06		30-06		-	
	Harvest Date	1-10		27-09		22-11		17-10		-		-		17-10		24-10		1-10		5-10		18-10		-	
	Irrigation Nos	8		6		2		-		-		-		-		-		-		-		3		-	
	Ferilizer Applied N	50		150		140		120		-		120		120		120		120		120		130		-	
	Ferilizer Applied P	24		60		60		60		-		60		60		60		60		60		40		-	
	Ferilizer Applied K	12		60		50		40		-		40		40		60		40		60		30		-	

LOCATIONS REJECTED DUE TO HIGH C.V.: DHOL 27.5 %

TABLE No. 1 **(Contd.)**

Sl No	PEDIGREE	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	PZ ZN 4 MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
		GRAIN YIELD (kg/ha) AT 15% MOISTURE																															
1	BLH 115	7185	24	5389	29	12680	13	11920	2	8845	17	9646	31	9968	2	9376	11	4770	36	6579	7	9946	10	8863	3	6337	14	3874	28	6728	10	8063	11
2	GH-1427	7184	25	5578	25	10613	36	9675	39	7096	38	7818	46	7415	28	7911	39	4421	45	4115	48	8684	29	5651	38	5242	29	3531	36	5274	41	6641	39
3	SYN617328	6088	37	5844	19	13328	9	11044	14	9349	9	7054	49	8533	7	8749	23	4748	37	7743	1	10214	6	7154	20	7271	7	4020	23	6859	8	7866	14
4	CMH11-583	6423	35	6448	10	9443	43	9730	36	6250	44	10527	20	7563	25	8055	37	7990	12	5382	21	9784	13	6256	32	4708	35	2997	45	6186	29	7067	33
5	CCH 9241	8214	11	4858	36	11016	28	10822	18	8870	16	10171	26	7219	34	8739	25	6564	24	5587	16	8952	27	5811	36	7107	8	3952	26	6329	21	7428	28
6	VaMH 13024	4317	48	5630	22	12876	12	9982	30	5429	46	10338	24	6849	40	7917	38	4271	49	5212	27	8640	30	5922	34	2739	48	3133	44	4986	44	6764	38
7	GK3202	7732	14	6275	12	14352	3	11057	13	6771	41	12498	9	8818	4	9643	4	5684	28	4383	47	9790	12	7585	14	7076	9	4704	10	6537	16	8217	6
8	OMH 14-55 (CAH1537)	6077	38	4411	40	9207	45	11029	15	7456	34	7609	47	6337	46	7447	46	7714	14	5382	20	8175	37	2766	49	5681	21	3494	38	5535	37	6505	42
9	SYN616734	7278	23	5574	26	10949	30	9716	38	8907	15	9337	35	7832	19	8513	31	4544	39	5234	25	9925	11	8951	2	6942	12	4168	21	6627	12	7490	26
10	PM16103L	7358	19	5528	28	14060	5	10404	25	9645	7	13425	3	8157	17	9797	2	5516	31	4614	41	9094	24	8129	10	4401	39	5162	2	6153	31	8183	7
11	VNR 3Y069	7827	12	5584	24	12500	15	12035	1	8827	18	8027	42	7593	24	8913	20	7603	16	4862	37	8743	28	7476	15	3802	44	4719	9	6201	27	7391	30
12	KH-16-149	7606	17	4614	38	11566	23	11441	8	9843	6	7422	48	7191	35	8526	30	4463	42	4569	44	7528	42	4785	45	2638	49	4312	17	4716	48	6475	43
13	JKMH 4152	7661	16	6243	13	13981	7	11822	3	7096	39	8850	38	8798	5	9207	14	6925	22	5841	10	9422	18	6902	23	4568	36	4153	22	6302	25	7564	24
14	JH 13278	8390	8	6163	14	11044	27	10074	29	8500	22	11893	13	8325	11	9198	15	8723	2	7511	3	10021	9	7668	13	5387	24	5041	4	7392	2	8391	4
15	MM9333	9635	1	5278	32	13416	8	11419	9	8419	23	12227	11	7231	33	9661	3	7719	13	4998	35	9668	15	8343	9	6187	15	4234	19	6858	9	8441	3
16	KMH-5022	5414	42	6089	15	14345	4	11741	4	9478	8	11606	14	7148	37	9403	10	4662	38	5759	12	9210	22	7347	16	5775	19	5038	5	6299	26	7828	16
17	MM 2030	6623	31	3632	47	11777	21	8329	48	7301	36	11425	16	8256	12	8192	34	7365	18	4415	46	8149	38	7144	21	5757	20	4339	16	6195	28	7417	29
18	OMH 14-16 (CAH1424)	6045	39	3551	48	10701	35	10863	17	8237	24	7985	44	6834	41	7745	42	5626	29	4851	38	7486	43	3027	48	4940	33	3352	42	4880	46	6607	40
19	C.P 888	7694	15	5974	16	11252	26	11326	11	9162	11	10378	22	8425	9	9173	17	6628	23	5147	31	7278	45	5375	42	5267	27	3412	41	5518	38	6940	35
20	DH-300	4666	45	4912	35	9037	46	10437	24	8191	25	8075	41	6906	39	7460	45	5066	34	4590	43	6544	47	6597	26	3915	43	3977	24	5115	43	6772	37
21	X-7	7347	21	4842	37	11712	22	9590	41	7733	32	9679	30	7236	32	8306	32	7357	19	5154	29	9735	14	8581	5	5463	23	3744	32	6672	11	7577	22
22	PM16101L	7789	13	3731	45	12913	11	9491	43	11052	1	11047	18	8433	8	9208	13	7227	20	4673	39	8390	34	6044	33	6945	10	4611	13	6315	23	7433	27
23	MM 2626	4154	49	4301	41	12241	19	11336	10	10791	2	12515	8	6705	43	8863	21	4505	41	6944	4	8386	35	6434	30	8569	1	3925	27	6460	18	8098	10
24	GH-1436	4873	44	4099	43	5874	49	11453	7	4383	49	8110	39	7679	21	6639	49	5111	33	5151	30	5892	48	3511	47	3936	42	2918	47	4420	49	5687	49
25	IMHBG-2016-3	6563	32	5362	31	12010	20	11740	5	7066	40	10372	23	6745	42	8551	29	8011	11	7701	2	9399	19	6463	29	7644	4	4361	15	7263	4	7627	20
26	GK3204	6915	29	5665	21	13996	6	10558	22	7318	35	8020	43	8199	14	8667	27	4376	46	3900	49	9133	23	7233	18	7435	6	3473	39	5925	33	7574	23
27	HT 16607	8548	6	5915	18	12530	14	9803	35	9059	12	11489	15	6113	48	9065	19	8468	5	4640	40	10036	8	9041	1	5185	30	6047	1	7236	5	8225	5
28	X-6	5934	40	6790	6	10779	33	10916	16	9038	13	13769	1	6332	47	9080	18	4786	35	6922	6	9547	16	8360	8	5373	25	4659	12	6608	14	8177	8
29	CMH11-591	5542	41	3725	46	10872	32	9939	31	10185	3	9777	28	6351	45	8056	36	4425	43	5430	19	8363	36	6771	25	3438	45	3839	30	5378	40	6535	41
30	VNR 33051	8316	10	4915	34	14645	1	10680	20	8092	26	10775	19	6933	38	9194	16	8757	1	5067	33	9397	20	7291	17	5110	31	3787	31	6568	15	7961	12
31	CCH 167	6629	30	6774	7	10997	29	8560	47	7760	30	12772	4	7700	20	8742	24	6002	25	5354	23	7609	41	6265	31	4063	41	4704	11	5666	35	7501	25
32	KMH-24752	7347	20	5619	23	13296	10	9556	42	7699	33	12683	6	9624	3	9404	9	5717	27	5644	14	8393	33	6794	24	4433	38	4374	14	5893	34	7603	21
33	OMH 1462 (CAH 142)	7318	22	5537	27	10257	40	9332	45	7941	28	9499	33	7316	31	8172	35	8640	3	5481	17	9049	26	5791	37	5302	26	3611	35	6312	24	7188	31
34	KH-POLO Gold	6534	33	5375	30	12474	17	11553	6	7766	29	11122	17	5518	49	8620	28	8306	7	5230	26	9474	17	5630	39	6111	16	3516	37	6378	20	7082	32
35	TMMH 838	4484	46	4135	42	9716	41	10244	27	6608	43	9073	36	8349	10	7515	43	4277	48	4538	45	7620	40	5595	41	4356	40	2292	49	4780	47	5872	48
36	ADV 9233	8623	4	6275	11	10495	38	10689	19	9004	14	13702	2	8222	13	9573	6	8105	10	5187	28	10631	4	8372	7	6944	11	4779	8	7336	3	7928	13

TABLE No. 1 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																															
															PZ ZN 4													CWZ ZN 5		OV'L	
		HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	MEAN	R	MEAN	R
37	OMH 14-27 (CAH1511)	8386	9	5958	17	10756	34	9454	44	8532	21	10383	21	7448	27	8702	26	7136	21	5970	9	11002	2	6589	27	6767	13	5055	3	7087	6	7799	17
38	HM16305	6927	28	6791	5	12251	18	9858	34	8671	20	12708	5	8167	16	9339	12	8284	8	5762	11	8060	39	8027	11	5249	28	3697	33	6513	17	7844	15
39	CMH11-586	4439	47	3987	44	9634	42	-	49	5403	47	10290	25	7664	22	6903	48	4375	47	5461	18	8403	32	6487	28	3344	47	2955	46	5171	42	5946	47
40	DKC 9178(IQ8623)	8820	3	8818	1	14462	2	10529	23	10060	5	12272	10	8183	15	####	1	8272	9	5235	24	8517	31	8015	12	4733	34	4895	6	6611	13	8669	1
41	PM16104L	9102	2	7158	4	11371	25	9929	32	7210	37	12581	7	10092	1	9635	5	8523	4	5098	32	10276	5	5083	43	5010	32	3967	25	6326	22	8110	9
42	Star-9	5044	43	4603	39	8946	47	9295	46	9275	10	8082	40	7348	29	7513	44	4425	44	6351	8	7024	46	5627	40	6029	18	3860	29	5553	36	6372	45
43	PM16102L	7598	18	5130	33	10506	37	9675	40	6205	45	8965	37	6531	44	7801	41	8391	6	5609	15	9225	21	5866	35	3375	46	3199	43	5944	32	6848	36
44	DH-301	6444	34	3459	49	8471	48	10131	28	4384	48	9571	32	7172	36	7090	47	4523	40	5371	22	7362	44	4302	46	5551	22	2610	48	4953	45	6176	46
45	BH 414012	6374	36	5749	20	9403	44	10653	21	7746	31	7837	45	7543	26	7901	40	5173	32	5038	34	5860	49	4852	44	7732	3	4212	20	5478	39	6403	44
46	BLH 114	7013	26	6604	8	10900	31	10295	26	8017	27	10051	27	8648	6	8790	22	5611	30	4609	42	9056	25	7091	22	7954	2	4306	18	6438	19	7664	19
	CHECKS																																
47	BIO 9682(C)	6952	27	6518	9	10460	39	9724	37	6636	42	9740	29	7843	18	8268	33	5979	26	5686	13	10071	7	7187	19	4477	37	3613	34	6169	30	7031	34
48	CMH 08-287(C)	8580	5	7643	3	12486	16	11200	12	10142	4	9389	34	7344	30	9541	7	7499	17	6942	5	11270	1	8383	6	7483	5	4862	7	7740	1	8462	2
49	CMH 08-282(C)	8426	7	7949	2	11507	24	9926	33	8806	19	12127	12	7647	23	9484	8	7615	15	4930	36	10648	3	8615	4	6040	17	3413	40	6877	7	7775	18
	Location Mean	**6948**		**5531**		**11512**		**10436**		**8087**		**10300**		**7642**		**8626**		**6344**		**5426**		**8879**		**6654**		**5506**		**4018**		**6138**		**7371**	
	C.D. (5%)	1852		1018		3036		1274		810		1197		2037		1603		389		1509		1524		1272		674		1579		1158		1365	
	C.V. (%)	16.45		11.36		16.27		7.69		6.18		7.17		16.45		-		3.78		17.15		10.59		11.79		7.56		**24.24**		-		-	
	F (Prob)	0		0		0		0		0		0		0.013				0		0		0		0		0		0.012					
	Plot Size	6		6		4.8		4.8		4.8		4.8		6		-		4.8		4.8		6		6		4.8		6		-		-	
	AGRONOMY DATA																																
	Sowing Date	22-06		30-06		27-06		2-08		25-07		25-06		12-07		-		1-07		27-06		16-07		2-07		8-07		19-06		-		-	
	Harvest Date	27-10		28-10		28-10		4-12		16-11		20-10		13-11		-		8-10		18-10		25-11		-		25-10		9-10		-		-	
	Irrigation Nos	4		7		2		8		12		12		2		-		1		-		-		-		-		-		-		-	
	Ferilizer Applied N	200		200		150		150		250		250		120		-		120		150		120		120		120		120		-		-	
	Ferilizer Applied P	60		60		65		75		75		75		60		-		90		80		60		60		60		60		-		-	
	Ferilizer Applied K	50		50		65		40		75		75		40		-		-		-		40		40		-		60		-		-	

TABLE No. 1 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9682(C) NWPZ(ZN 2)																		NEPZ ZN 3	
		LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	SABO	R	MEAN	R
1	BLH 115	32.1		14.7		-		22.3		12.1		-		65		-		8.4		21.7		61.7		27.5	
2	GH-1427	5.8		11.4		19.6		-		5		-		19.5		-		-		-		18.5		-	
3	SYN617328	22.6		6.6		6.4		-		5.3		24.7		88.4		3.7		11.9		37		29.7		32.4	
4	CMH11-583	5.1		18.4		20.4		31.2		18.7		-		-		-		-		-		22.9		-	
5	CCH 9241	30.9		-		21.7		33.8		17.8		-		17.9		-		-		-		20		-	
6	VaMH 13024	0.1		15.2		11.2		26.5		13		-		19.4		-		-		-		21.8		-	
7	GK3202	22.8		7.7		19.8		15.5		16.8		-		51.4		-		13.3		54.7		66		31.6	
8	OMH 14-55 (CAH1537)	1.7		6.4		14.5		-		1.1		-		33.8		-		-		-		-		-	
9	SYN616734	7.8		-		18.1		-		4.2		-		62.3		-		19.7		20.6		17.7		15.1	
10	PM16103L	45.9		-		15.9		19.2		18.7		7.2		16.2		-		38.4		42.9		59.4		31.2	
11	VNR 3Y069	15.3		-		5.1		-		1.2		0.9		47.5		-		-		15.2		26.7		10.1	
12	KH-16-149	-		-		12.7		-		-		-		-		-		-		-		23.7		-	
13	JKMH 4152	4.3		21.6		25.3		11.7		16		-		5.7		-		-		4.2		37.6		-	
14	JH 13278	35.4		-		31		26.3		22		10.4		64.2		3		15.5		29.3		52		32.2	
15	MM9333	28.5		-		27.1		44.8		25.5		-		66.5		13.2		35.1		-		52.1		32.2	
16	KMH-5022	17.3		5.9		9.9		15.8		12.3		-		34.9		-		-		28.2		43.5		17.4	
17	MM 2030	23.9		4.6		15.3		13.7		14.7		-		55.6		-		1.4		2.3		36.4		15	
18	OMH 14-16 (CAH1424)	-		9.3		11.6		42.1		13.1		18.3		4.5		-		-		-		15.3		-	
19	C.P 888	4.9		11.6		13.2		-		-		-		42.9		-		-		-		-		-	
20	DH-300	-		-		31.4		29.2		11.1		-		63.2		-		-		66.3		-		9.8	
21	X-7	12.2		-		25.8		18.3		14		-		42.7		-		0.4		50.2		29.7		15.2	
22	PM16101L	9.5		-		34.3		-		-		-		28.5		-		-		-		52.2		5.1	
23	MM 2626	21.1		19.1		18.3		49.8		26.7		-		70.6		9.9		-		35		59.5		32.3	
24	GH-1436	-		12.8		12		1		0.2		-		-		-		-		-		-		-	
25	IMHBG-2016-3	6.4		-		5.4		-		-		-		31.1		-		-		52.3		48.9		18.3	
26	GK3204	32.4		14.2		4		30		19.5		-		47.9		-		-		43.9		51.1		15.8	
27	HT 16607	24		-		35.5		36.2		23.8		-		59.2		7.1		-		29.5		36.8		24	
28	X-6	39.9		4.2		14.3		14.6		18.5		23.4		73.5		6.7		9.2		36.5		71.3		39	
29	CMH11-591	-		-		27.1		-		-		-		-		-		-		-		55.1		-	
30	VNR 33051	24.8		3.6		17.2		34.7		20.2		-		36.9		1.6		-		12.9		56.8		18.4	
31	CCH 167	-		24.4		32.1		28.7		17.8		-		30.1		-		12.2		3.7		40.1		15.7	
32	KMH-24752	16.3		-		-		21		3.9		-		-		-		36.3		19.8		46.8		17.9	
33	OMH 1462 (CAH 142)	15.9		12		1.5		31		14.4		-		14.4		1		-		-		10.8		-	
34	KH-POLO Gold	-		10.8		4		-		-		-		66.8		0.2		-		-		-		-	
35	TMMH 838	-		16.4		-		-		-		1.4		-		-		-		-		-		-	
36	ADV 9233	38.2		-		-		36.8		10.2		-		57.9		0.3		-		-		-		1.4	
37	OMH 14-27 (CAH1511)	19.5		6.8		1.7		-		0.7		-		24.6		-		27.4		62.7		45.4		28.6	

TABLE No. 1 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9682(C) NWPZ(ZN 2) LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	SABO	R	NEPZ ZN 3 MEAN	R
38	HM16305	12.8		-		-		18.2		3		-		72.7		-		16.7		29.7		37.4		25.9	
39	CMH11-586	-		-		-		-		-		-		-		-		-		3		5.9		-	
40	DKC 9178(IQ8623)	36.5		15.4		-		77.8		23.4		-		87.6		1.6		12.2		8.6		79.4		37.9	
41	PM16104L	42		-		-		37.2		12.6		10.3		60.2		-		23.2		26.6		71.8		32.6	
42	Star-9	-		-		-		-		-		-		9.2		-		-		-		-		-	
43	PM16102L	-		-		-		-		-		-		28		4.4		-		48.9		10.2		8.2	
44	DH-301	5.3		-		-		-		-		-		-		8.9		-		-		8		-	
45	BH 414012	-		15.4		-		-		-		18.6		-		-		-		-		-		-	
46	BLH 114	28.7		-		19.4		41.8		19.1		-		27.4		-		5.2		30.6		-		9.3	
	CHECKS																								
47	BIO 9682(C)	-		-		-		-		-		-		-		-		-		-		-		-	
48	CMH 08-287(C)	28		-		-		17.9		3.7		2.2		75.8		6.4		4.9		60.8		68.2		42.1	
49	CMH 08-282(C)	1		-		-		16.1		-		17.6		29		-		16.5		-		40.9		13.6	

TABLE No. 1 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9682(C) HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	PZ ZN 4 MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	BLH 115	3.4		-		21.2		22.6		33.3		-		27.1		13.4		-		15.7		-		23.3		41.5		7.2		9.1		14.7	
2	GH-1427	3.3		-		1.5		-		6.9		-		-		-		-		-		-		-		17.1		-		-		-	
3	SYN617328	-		-		27.4		13.6		40.9		-		8.8		5.8		-		36.2		1.4		-		62.4		11.3		11.2		11.9	
4	CMH11-583	-		-		-		0.1		-		8.1		-		-		33.6		-		-		-		5.2		-		0.3		0.5	
5	CCH 9241	18.1		-		5.3		11.3		33.7		4.4		-		5.7		9.8		-		-		-		58.7		9.4		2.6		5.7	
6	VaMH 13024	-		-		23.1		2.7		-		6.1		-		-		-		-		-		-		-		-		-		-	
7	GK3202	11.2		-		37.2		13.7		2		28.3		12.4		16.6		-		-		-		5.5		58.1		30.2		6		16.9	
8	OMH 14-55 (CAH1537)	-		-		-		13.4		12.4		-		-		-		29		-		-		-		26.9		-		-		-	
9	SYN616734	4.7		-		4.7		-		34.2		-		-		3		-		-		-		24.5		55.1		15.4		7.4		6.5	
10	PM16103L	5.8		-		34.4		7		45.3		37.8		4		18.5		-		-		-		13.1		-		42.9		-		16.4	
11	VNR 3Y069	12.6		-		19.5		23.8		33		-		-		7.8		27.2		-		-		4		-		30.6		0.5		5.1	
12	KH-16-149	9.4		-		10.6		17.7		48.3		-		-		3.1		-		-		-		-		-		19.3		-		-	
13	JKMH 4152	10.2		-		33.7		21.6		6.9		-		12.2		11.4		15.8		2.7		-		-		2		15		2.2		7.6	
14	JH 13278	20.7		-		5.6		3.6		28.1		22.1		6.1		11.3		45.9		32.1		-		6.7		20.3		39.5		19.8		19.3	
15	MM9333	38.6		-		28.3		17.4		26.9		25.5		-		16.9		29.1		-		-		16.1		38.2		17.2		11.2		20.1	
16	KMH-5022	-		-		37.1		20.7		42.8		19.2		-		13.7		-		1.3		-		2.2		29		39.5		2.1		11.3	
17	MM 2030	-		-		12.6		-		10		17.3		5.3		-		23.2		-		-		-		28.6		20.1		0.4		5.5	
18	OMH 14-16 (CAH1424)	-		-		2.3		11.7		24.1		-		-		-		-		-		-		-		10.3		-		-		-	
19	C.P 888	10.7		-		7.6		16.5		38.1		6.6		7.4		11		10.9		-		-		-		17.7		-		-		-	
20	DH-300	-		-		-		7.3		23.4		-		-		-		-		-		-		-		-		10.1		-		-	
21	X-7	5.7		-		12		-		16.5		-		-		0.5		23		-		-		19.4		22		3.6		8.2		7.8	
22	PM16101L	12		-		23.4		-		66.5		13.4		7.5		11.4		20.9		-		-		-		55.1		27.6		2.4		5.7	
23	MM 2626	-		-		17		16.6		62.6		28.5		-		7.2		-		22.1		-		-		91.4		8.7		4.7		15.2	
24	GH-1436	-		-		-		17.8		-		-		-		-		-		-		-		-		-		-		-		-	
25	IMHBG-2016-3	-		-		14.8		20.7		6.5		6.5		-		3.4		34		35.4		-		-		70.7		20.7		17.7		8.5	
26	GK3204	-		-		33.8		8.6		10.3		-		4.5		4.8		-		-		-		0.6		66.1		-		-		7.7	
27	HT 16607	22.9		-		19.8		0.8		36.5		18		-		9.6		41.6		-		-		25.8		15.8		67.4		17.3		17	
28	X-6	-		4.2		3.1		12.3		36.2		41.4		-		9.8		-		21.7		-		16.3		20		29		7.1		16.3	
29	CMH11-591	-		-		3.9		2.2		53.5		0.4		-		-		-		-		-		-		-		6.3		-		-	
30	VNR 33051	19.6		-		40		9.8		21.9		10.6		-		11.2		46.5		-		-		1.4		14.1		4.8		6.5		13.2	
31	CCH 167	-		3.9		5.1		-		16.9		31.1		-		5.7		0.4		-		-		-		-		30.2		-		6.7	
32	KMH-24752	5.7		-		27.1		-		16		30.2		22.7		13.7		-		-		-		-		-		21.1		-		8.1	
33	OMH 1462 (CAH 142)	5.3		-		-		-		19.7		-		-		-		44.5		-		-		-		18.4		-		2.3		2.2	
34	KH-POLO Gold	-		-		19.3		18.8		17		14.2		-		4.3		38.9		-		-		-		36.5		-		3.4		0.7	
35	TMMH 838	-		-		-		5.3		-		-		6.4		-		-		-		-		-		-		-		-		-	
36	ADV 9233	24		-		0.3		9.9		35.7		40.7		4.8		15.8		35.6		-		5.6		16.5		55.1		32.3		18.9		12.8	
37	OMH 14-27 (CAH1511)	20.6		-		2.8		-		28.6		6.6		-		5.3		19.4		5		9.3		-		51.2		39.9		14.9		10.9	

TABLE No. 1 (Contd.)

		GRAIN YIELD % SUPERIORITY OVER THE BIO 9682(C)														PZ														CWZ			
Sl																ZN 4														ZN 5		OV'L	
No	PEDIGREE	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	MEAN	R	MEAN	R
38	HM16305	-		4.2		17.1		1.4		30.7		30.5		4.1		13		38.6		1.3		-		11.7		17.2		2.3		5.6		11.6	
39	CMH11-586	-		-		-		-		-		5.7		-		-		-		-		-		-		-		-		-		-	
40	DKC 9178(IQ8623)	26.9		35.3		38.3		8.3		51.6		26		4.3		26.4		38.4		-		-		11.5		5.7		35.5		7.2		23.3	
41	PM16104L	30.9		9.8		8.7		2.1		8.6		29.2		28.7		16.5		42.5		-		2		-		11.9		9.8		2.6		15.4	
42	Star-9	-		-		-		-		39.8		-		-		-		-		11.7		-		-		34.7		6.8		-		-	
43	PM16102L	9.3		-		0.4		-		-		-		-		-		40.3		-		-		-		-		-		-		-	
44	DH-301	-		-		-		4.2		-		-		-		-		-		-		-		-		24		-		-		-	
45	BH 414012	-		-		-		9.6		16.7		-		-		-		-		-		-		-		72.7		16.6		-		-	
46	BLH 114	0.9		1.3		4.2		5.9		20.8		3.2		10.3		6.3		-		-		-		-		77.7		19.2		4.4		9	
	CHECKS																																
47	BIO 9682(C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
48	CMH 08-287(C)	23.4		17.3		19.4		15.2		52.8		-		-		15.4		25.4		22.1		11.9		16.6		67.1		34.6		25.5		20.4	
49	CMH 08-282(C)	21.2		22		10		2.1		32.7		24.5		-		14.7		27.4		-		5.7		19.9		34.9		-		11.5		10.6	

TABLE No. 1 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-287(C) NWPZ(ZN 2) LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	SABO	R	NEPZ ZN 3 MEAN	R
1	BLH 115	3.2		35.2		-		3.7		8.1		-		-		-		3.3		-		-		-	
2	GH-1427	-		31.4		39.5		-		1.2		-		-		-		-		-		-		-	
3	SYN617328	-		25.7		24.1		-		1.5		21.9		7.2		-		6.6		-		-		-	
4	CMH11-583	-		39.6		40.4		11.3		14.4		-		-		-		-		-		-		-	
5	CCH 9241	2.3		-		42		13.5		13.6		-		-		-		-		-		-		-	
6	VaMH 13024	-		35.9		29.7		7.3		8.9		-		-		-		-		-		-		-	
7	GK3202	-		27		39.6		-		12.6		-		-		-		7.9		-		-		-	
8	OMH 14-55 (CAH1537)	-		25.4		33.5		-		-		-		-		-		-		-		-		-	
9	SYN616734	-		16.9		37.7		-		0.5		-		-		-		14.1		-		-		-	
10	PM16103L	14		7.7		35.1		1.1		14.5		4.8		-		-		31.9		-		-		-	
11	VNR 3Y069	-		4.9		22.6		-		-		-		-		-		-		-		-		-	
12	KH-16-149	-		13.7		31.4		-		-		-		-		-		-		-		-		-	
13	JKMH 4152	-		43.4		46.1		-		11.8		-		-		-		-		-		-		-	
14	JH 13278	5.8		7.1		52.7		7.1		17.7		8		-		-		10.1		-		-		-	
15	MM9333	0.4		17.1		48.2		22.8		21		-		-		6.3		28.7		-		-		-	
16	KMH-5022	-		24.8		28.2		-		8.2		-		-		-		-		-		-		-	
17	MM 2030	-		23.3		34.4		-		10.6		-		-		-		-		-		-		-	
18	OMH 14-16 (CAH1424)	-		28.9		30.2		20.6		9		15.7		-		-		-		-		-		-	
19	C.P 888	-		31.5		32		-		-		-		-		-		-		-		-		-	
20	DH-300	-		8.1		53.2		9.6		7.2		-		-		-		-		3.5		-		-	
21	X-7	-		13.4		46.6		0.4		9.9		-		-		-		-		-		-		-	
22	PM16101L	-		-		56.6		-		-		-		-		-		-		-		-		-	
23	MM 2626	-		40.4		37.9		27.1		22.1		-		-		3.3		-		-		-		-	
24	GH-1436	-		33		30.6		-		-		-		-		-		-		-		-		-	
25	IMHBG-2016-3	-		13.6		22.9		-		-		-		-		-		-		-		-		-	
26	GK3204	3.4		34.7		21.3		10.2		15.2		-		-		-		-		-		-		-	
27	HT 16607	-		12.2		57.9		15.6		19.3		-		-		0.7		-		-		-		-	
28	X-6	9.2		22.8		33.3		-		14.3		20.7		-		0.3		4		-		1.9		-	
29	CMH11-591	-		9.1		48.2		-		-		-		-		-		-		-		-		-	
30	VNR 33051	-		22.2		36.7		14.3		15.9		-		-		-		-		-		-		-	
31	CCH 167	-		46.7		54		9.2		13.6		-		-		-		6.9		-		-		-	
32	KMH-24752	-		5.2		5.5		2.6		0.1		-		-		-		29.8		-		-		-	
33	OMH 1462 (CAH 142)	-		32.1		18.4		11.1		10.3		-		-		-		-		-		-		-	
34	KH-POLO Gold	-		30.6		21.3		-		-		-		-		-		-		-		-		-	
35	TMMH 838	-		37.2		9.9		-		-		-		-		-		-		-		-		-	
36	ADV 9233	7.9		0.2		-		16		6.3		-		-		-		-		-		-		-	
37	OMH 14-27 (CAH1511)	-		25.9		18.6		-		-		-		-		-		21.4		1.2		-		-	

TABLE No. 1 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-287(C) NWPZ(ZN 2) LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	SABO	R	NEPZ ZN 3 MEAN	R
38	HM16305	-		-		14.2		0.3		-		-		-		-		11.2		-		-		-	
39	CMH11-586	-		6.6		-		-		-		-		-		-		-		-		-		-	
40	DKC 9178(IQ8623)	6.6		36.1		-		50.8		19		-		6.7		-		6.9		-		6.7		-	
41	PM16104L	10.9		2.3		1.6		16.4		8.6		7.9		-		-		17.3		-		2.2		-	
42	Star-9	-		4.1		0.1		-		-		-		-		-		-		-		-		-	
43	PM16102L	-		14		15.6		-		-		-		-		-		-		-		-		-	
44	DH-301	-		-		4.4		-		-		-		-		2.3		-		-		-		-	
45	BH 414012	-		36.1		15.2		-		-		16		-		-		-		-		-		-	
46	BLH 114	0.5		-		39.2		20.2		14.8		-		-		-		0.3		-		-		-	
	CHECKS																								
47	BIO 9682(C)	-		17.9		16.6		-		-		-		-		-		-		-		-		-	
48	CMH 08-287(C)	-		-		-		-		-		-		-		-		-		-		-		-	
49	CMH 08-282(C)	-		4		7.6		-		-		15		-		-		11		-		-		-	

TABLE No. 1 (Contd.)

Sl		GRAIN YIELD % SUPERIORITY OVER THE CMH 08-287(C)														PZ														CWZ			
																ZN 4														ZN 5		OV'L	
No	PEDIGREE	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	MEAN	R	MEAN	R
1	BLH 115	-		-		1.5		6.4		-		2.7		35.7		-		-		-		-		5.7		-		-		-		-	
2	GH-1427	-		-		-		-		-		-		1		-		-		-		-		-		-		-		-		-	
3	SYN617328	-		-		6.7		-		-		-		16.2		-		-		11.5		-		-		-		-		-		-	
4	CMH11-583	-		-		-		-		-		12.1		3		-		6.5		-		-		-		-		-		-		-	
5	CCH 9241	-		-		-		-		-		8.3		-		-		-		-		-		-		-		-		-		-	
6	VaMH 13024	-		-		3.1		-		-		10.1		-		-		-		-		-		-		-		-		-		-	
7	GK3202	-		-		14.9		-		-		33.1		20.1		1.1		-		-		-		-		-		-		-		-	
8	OMH 14-55 (CAH1537)	-		-		-		-		-		-		-		-		2.9		-		-		-		-		-		-		-	
9	SYN616734	-		-		-		-		-		-		6.7		-		-		-		-		6.8		-		-		-		-	
10	PM16103L	-		-		12.6		-		-		43		11.1		2.7		-		-		-		-		-		6.2		-		-	
11	VNR 3Y069	-		-		0.1		7.5		-		-		3.4		-		1.4		-		-		-		-		-		-		-	
12	KH-16-149	-		-		-		2.2		-		-		-		-		-		-		-		-		-		-		-		-	
13	JKMH 4152	-		-		12		5.5		-		-		19.8		-		-		-		-		-		-		-		-		-	
14	JH 13278	-		-		-		-		-		26.7		13.4		-		16.3		8.2		-		-		-		3.7		-		-	
15	MM9333	12.3		-		7.4		2		-		30.2		-		1.3		2.9		-		-		-		-		-		-		-	
16	KMH-5022	-		-		14.9		4.8		-		23.6		-		-		-		-		-		-		-		3.6		-		-	
17	MM 2030	-		-		-		-		-		21.7		12.4		-		-		-		-		-		-		-		-		-	
18	OMH 14-16 (CAH1424)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
19	C.P 888	-		-		-		1.1		-		10.5		14.7		-		-		-		-		-		-		-		-		-	
20	DH-300	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
21	X-7	-		-		-		-		-		3.1		-		-		-		-		-		2.4		-		-		-		-	
22	PM16101L	-		-		3.4		-		9		17.7		14.8		-		-		-		-		-		-		-		-		-	
23	MM 2626	-		-		-		1.2		6.4		33.3		-		-		-		0		-		-		14.5		-		-		-	
24	GH-1436	-		-		-		2.3		-		-		4.6		-		-		-		-		-		-		-		-		-	
25	IMHBG-2016-3	-		-		-		4.8		-		10.5		-		-		6.8		10.9		-		-		2.2		-		-		-	
26	GK3204	-		-		12.1		-		-		-		11.6		-		-		-		-		-		-		-		-		-	
27	HT 16607	-		-		0.4		-		-		22.4		-		-		12.9		-		-		7.9		-		24.4		-		-	
28	X-6	-		-		-		-		-		46.7		-		-		-		-		-		-		-		-		-		-	
29	CMH11-591	-		-		-		-		0.4		4.1		-		-		-		-		-		-		-		-		-		-	
30	VNR 33051	-		-		17.3		-		-		14.8		-		-		16.8		-		-		-		-		-		-		-	
31	CCH 167	-		-		-		-		-		36		4.8		-		-		-		-		-		-		-		-		-	
32	KMH-24752	-		-		6.5		-		-		35.1		31.1		-		-		-		-		-		-		-		-		-	
33	OMH 1462 (CAH 142)	-		-		-		-		-		1.2		-		-		15.2		-		-		-		-		-		-		-	
34	KH-POLO Gold	-		-		-		3.1		-		18.5		-		-		10.8		-		-		-		-		-		-		-	
35	TMMH 838	-		-		-		-		-		-		13.7		-		-		-		-		-		-		-		-		-	
36	ADV 9233	0.5		-		-		-		-		45.9		12		0.3		8.1		-		-		-		-		-		-		-	
37	OMH 14-27 (CAH1511)	-		-		-		-		-		10.6		1.4		-		-		-		-		-		-		4		-		-	

TABLE No. 1 (Contd.)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-287(C)														PZ ZN 4														CWZ ZN 5		OV'L	
		HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	MEAN	R	MEAN	R
38	HM16305	-		-		-		-		-		35.4		11.2		-		10.5		-		-		-		-		-		-		-	
39	CMH11-586	-		-		-		-		-		9.6		4.4		-		-		-		-		-		-		-		-		-	
40	DKC 9178(IQ8623)	2.8		15.4		15.8		-		-		30.7		11.4		9.5		10.3		-		-		-		-		0.7		-		2.5	
41	PM16104L	6.1		-		-		-		-		34		37.4		1		13.6		-		-		-		-		-		-		-	
42	Star-9	-		-		-		-		-		-		0.1		-		-		-		-		-		-		-		-		-	
43	PM16102L	-		-		-		-		-		-		-		-		11.9		-		-		-		-		-		-		-	
44	DH-301	-		-		-		-		-		1.9		-		-		-		-		-		-		-		-		-		-	
45	BH 414012	-		-		-		-		-		-		2.7		-		-		-		-		-		3.3		-		-		-	
46	BLH 114	-		-		-		-		-		7.1		17.8		-		-		-		-		-		6.3		-		-		-	
	CHECKS																																
47	BIO 9682(C)	-		-		-		-		-		3.7		6.8		-		-		-		-		-		-		-		-		-	
48	CMH 08-287(C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
49	CMH 08-282(C)	-		4		-		-		-		29.2		4.1		-		1.5		-		-		2.8		-		-		-		-	

TABLE No. 1 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-282(C) NWPZ(ZN 2) LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	SABO	R	NEPZ ZN 3 MEAN	R	HYDE
1	BLH 115	30.7		30		-		5.4		13		-		27.8		-		-		45.8		14.8		12.2		-
2	GH-1427	4.7		26.3		29.7		-		5.8		-		-		-		-		-		-		-		-
3	SYN617328	21.3		20.9		15.3		-		6.1		6		46		9		-		64.1		-		16.6		-
4	CMH11-583	4		34.2		30.5		13		19.6		-		-		-		-		-		-		-		-
5	CCH 9241	29.6		-		31.9		15.3		18.8		-		-		-		-		18.6		-		-		-
6	VaMH 13024	-		30.7		20.5		9		13.9		-		-		-		-		15.3		-		-		-
7	GK3202	21.5		22.1		29.8		-		17.8		-		17.3		-		-		85.3		17.9		15.8		-
8	OMH 14-55 (CAH1537)	0.6		20.6		24		-		1.9		-		3.7		-		-		18.5		-		-		-
9	SYN616734	6.7		12.4		28		-		5.1		-		25.8		-		2.7		44.5		-		1.3		-
10	PM16103L	44.4		3.6		25.6		2.7		19.7		-		-		4.8		18.8		71.2		13.1		15.5		-
11	VNR 3Y069	14.2		0.9		13.9		-		2		-		14.3		-		-		38		-		-		-
12	KH-16-149	-		9.3		22.1		-		-		-		-		-		-		-		-		-		-
13	JKMH 4152	3.3		37.9		35.8		-		16.9		-		-		-		-		24.8		-		-		-
14	JH 13278	34.1		3		42		8.8		23		-		27.3		8.3		-		54.9		7.9		16.3		-
15	MM9333	27.2		12.6		37.7		24.7		26.5		-		29.1		19		15.9		10.5		8		16.3		14.4
16	KMH-5022	16.1		20		19.1		-		13.2		-		4.6		-		-		53.6		1.8		3.4		-
17	MM 2030	22.7		18.6		24.9		-		15.6		-		20.6		-		-		22.6		-		1.2		-
18	OMH 14-16 (CAH1424)	-		23.9		21		22.4		14		0.6		-		-		-		-		-		-		-
19	C.P 888	3.8		26.5		22.7		-		-		-		10.8		-		-		13.1		-		-		-
20	DH-300	-		3.9		42.4		11.3		12		-		26.5		-		-		99.3		-		-		-
21	X-7	11.1		9		36.3		1.9		15		-		10.6		-		-		80		-		1.4		-
22	PM16101L	8.4		-		45.6		-		0.6		-		-		-		-		-		8		-		-
23	MM 2626	19.9		35		28.2		29.1		27.7		-		32.2		15.6		-		61.8		13.2		16.5		-
24	GH-1436	-		27.9		21.4		-		1		-		-		-		-		-		-		-		-
25	IMHBG-2016-3	5.3		9.3		14.2		-		-		-		1.6		-		-		82.4		5.7		4.2		-
26	GK3204	31.1		29.5		12.7		12		20.5		-		14.6		-		-		72.4		7.3		1.9		-
27	HT 16607	22.7		7.8		46.8		17.4		24.8		-		23.4		12.6		-		55.1		-		9.1		1.4
28	X-6	38.4		18.1		23.9		-		19.5		4.9		34.4		12.2		-		63.5		21.6		22.4		-
29	CMH11-591	-		4.9		37.8		-		0.6		-		-		-		-		-		10.1		-		-
30	VNR 33051	23.5		17.5		27.1		16.1		21.2		-		6.1		6.8		-		35.3		11.3		4.2		-
31	CCH 167	-		41.1		43.2		10.9		18.8		-		0.8		-		-		24.3		-		1.8		-
32	KMH-24752	15.1		1.1		-		4.2		4.7		-		-		-		16.9		43.5		4.2		3.7		-
33	OMH 1462 (CAH 142)	14.7		27		10		12.8		15.3		-		-		6.2		-		-		-		-		-
34	KH-POLO Gold	-		25.6		12.7		-		-		-		29.2		5.4		-		-		-		-		-
35	TMMH 838	-		32		2.1		-		-		-		-		-		-		12.1		-		-		-
36	ADV 9233	36.8		-		-		17.8		11.1		-		22.4		5.5		-		-		-		-		2.3
37	OMH 14-27 (CAH1511)	18.3		21.1		10.2		-		1.5		-		-		-		9.3		94.9		3.2		13.2		-

TABLE No. 1 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-282(C) NWPZ(ZN 2) LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	SABO	R	NEPZ ZN 3 MEAN	R	HYDE
38	HM16305	11.6		-		6.1		1.8		3.9		-		33.9		-		0.2		55.3		-		10.8		-
39	CMH11-586	-		2.5		-		-		-		-		-		-		-		23.4		-		-		-
40	DKC 9178(IQ8623)	35.2		30.9		-		53.2		24.4		-		45.4		6.8		-		30.1		27.4		21.4		4.7
41	PM16104L	40.6		-		-		18.2		13.5		-		24.2		-		5.7		51.7		22		16.7		8
42	Star-9	-		0.2		-		-		-		-		-		3.1		-		-		-		-		-
43	PM16102L	-		9.6		7.5		-		-		-		-		9.8		-		78.4		-		-		-
44	DH-301	4.2		-		-		-		-		-		-		14.5		-		16.6		-		-		-
45	BH 414012	-		30.9		7.1		-		-		0.9		-		-		-		8.4		-		-		-
46	BLH 114	27.4		-		29.4		22.1		20.1		-		-		3.4		-		56.5		-		-		-
	CHECKS																									
47	BIO 9682(C)	-		13.4		8.4		-		0.8		-		-		5.1		-		19.8		-		-		-
48	CMH 08-287(C)	26.7		-		-		1.6		4.6		-		36.3		11.9		-		92.6		19.4		25.1		1.8
49	CMH 08-282(C)	-		-		-		-		-		-		-		-		-		-		-		-		-

TABLE No. 1 (Contd.)

Sl No	PEDIGREE	R	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-282(C) KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	PZ ZN 4 MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	BLH 115		-		10.2		20.1		0.4		-		30.4		-		-		33.4		-		2.9		4.9		13.5		-		3.7	
2	GH-1427		-		-		-		-		-		-		-		-		-		-		-		-		3.5		-		-	
3	SYN617328		-		15.8		11.3		6.2		-		11.6		-		-		57.1		-		-		20.4		17.8		-		1.2	
4	CMH11-583		-		-		-		-		-		-		-		4.9		9.2		-		-		-		-		-		-	
5	CCH 9241		-		-		9		0.7		-		-		-		-		13.3		-		-		17.7		15.8		-		-	
6	VaMH 13024		-		11.9		0.6		-		-		-		-		-		5.7		-		-		-		-		-		-	
7	GK3202		-		24.7		11.4		-		3.1		15.3		1.7		-		-		-		-		17.2		37.8		-		5.7	
8	OMH 14-55 (CAH1537)		-		-		11.1		-		-		-		-		1.3		9.2		-		-		-		2.4		-		-	
9	SYN616734		-		-		-		1.1		-		2.4		-		-		6.2		-		3.9		14.9		22.1		-		-	
10	PM16103L		-		22.2		4.8		9.5		10.7		6.7		3.3		-		-		-		-		-		51.3		-		5.2	
11	VNR 3Y069		-		8.6		21.3		0.2		-		-		-		-		-		-		-		-		38.3		-		-	
12	KH-16-149		-		0.5		15.3		11.8		-		-		-		-		-		-		-		-		26.3		-		-	
13	JKMH 4152		-		21.5		19.1		-		-		15.1		-		-		18.5		-		-		-		21.7		-		-	
14	JH 13278		-		-		1.5		-		-		8.9		-		14.6		52.3		-		-		-		47.7		7.5		7.9	
15	MM9333		-		16.6		15		-		0.8		-		1.9		1.4		1.4		-		-		2.4		24.1		-		8.6	
16	KMH-5022		-		24.7		18.3		7.6		-		-		-		-		16.8		-		-		-		47.6		-		0.7	
17	MM 2030		-		2.3		-		-		-		8		-		-		-		-		-		-		27.1		-		-	
18	OMH 14-16 (CAH1424)		-		-		9.4		-		-		-		-		-		-		-		-		-		-		-		-	
19	C.P 888		-		-		14.1		4		-		10.2		-		-		4.4		-		-		-		-		-		-	
20	DH-300		-		-		5.2		-		-		-		-		-		-		-		-		-		16.5		-		-	
21	X-7		-		1.8		-		-		-		-		-		-		4.5		-		-		-		9.7		-		-	
22	PM16101L		-		12.2		-		25.5		-		10.3		-		-		-		-		-		15		35.1		-		-	
23	MM 2626		-		6.4		14.2		22.5		3.2		-		-		-		40.8		-		-		41.9		15		-		4.1	
24	GH-1436		-		-		15.4		-		-		0.4		-		-		4.5		-		-		-		-		-		-	
25	IMHBG-2016-3		-		4.4		18.3		-		-		-		-		5.2		56.2		-		-		26.6		27.8		5.6		-	
26	GK3204		-		21.6		6.4		-		-		7.2		-		-		-		-		-		23.1		1.8		-		-	
27	HT 16607		-		8.9		-		2.9		-		-		-		11.2		-		-		4.9		-		77.2		5.2		5.8	
28	X-6		-		-		10		2.6		13.5		-		-		-		40.4		-		-		-		36.5		-		5.2	
29	CMH11-591		-		-		0.1		15.7		-		-		-		-		10.1		-		-		-		12.5		-		-	
30	VNR 33051		-		27.3		7.6		-		-		-		-		15		2.8		-		-		-		11		-		2.4	
31	CCH 167		-		-		-		-		5.3		0.7		-		-		8.6		-		-		-		37.8		-		-	
32	KMH-24752		-		15.6		-		-		4.6		25.9		-		-		14.5		-		-		-		28.2		-		-	
33	OMH 1462 (CAH 142)		-		-		-		-		-		-		-		13.5		11.2		-		-		-		5.8		-		-	
34	KH-POLO Gold		-		8.4		16.4		-		-		-		-		9.1		6.1		-		-		1.2		3		-		-	
35	TMMH 838		-		-		3.2		-		-		9.2		-		-		-		-		-		-		-		-		-	
36	ADV 9233		-		-		7.7		2.2		13		7.5		0.9		6.4		5.2		-		-		15		40		6.7		2	
37	OMH 14-27 (CAH1511)		-		-		-		-		-		-		-		-		21.1		3.3		-		12		48.1		3		0.3	

TABLE No. 1 (Contd.)

SI		GRAIN YIELD % SUPERIORITY OVER THE CMH 08-282(C)												PZ ZN 4														CWZ ZN 5		OV'L	
No	PEDIGREE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	MEAN	R	MEAN	R
38	HM16305		-		6.5		-		-		4.8		6.8		-		8.8		16.9		-		-		-		8.3		-		0.9	
39	CMH11-586		-		-		-		-		-		0.2		-		-		10.8		-		-		-		-		-		-	
40	DKC 9178(IQ8623)		10.9		25.7		6.1		14.2		1.2		7		10.2		8.6		6.2		-		-		-		43.4		-		11.5	
41	PM16104L		-		-		0		-		3.7		32		1.6		11.9		3.4		-		-		-		16.3		-		4.3	
42	Star-9		-		-		-		5.3		-		-		-		-		28.8		-		-		-		13.1		-		-	
43	PM16102L		-		-		-		-		-		-		-		10.2		13.8		-		-		-		-		-		-	
44	DH-301		-		-		2.1		-		-		-		-		-		8.9		-		-		-		-		-		-	
45	BH 414012		-		-		7.3		-		-		-		-		-		2.2		-		-		28		23.4		-		-	
46	BLH 114		-		-		3.7		-		-		13.1		-		-		-		-		-		31.7		26.2		-		-	
	CHECKS																															
47	BIO 9682(C)		-		-		-		-		-		2.6		-		-		15.3		-		-		-		5.9		-		-	
48	CMH 08-287(C)		-		8.5		12.8		15.2		-		-		0.6		-		40.8		5.8		-		23.9		42.5		12.5		8.8	
49	CMH 08-282(C)		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	

Table No. 1 (Contd.)

S.No.	PEDIGREE	MOISTURE % AT HARVEST NWPZ				ZN 2	NEPZ						ZN 3
		LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	Mean
1	BLH 115	15.2	21.9	16.0	25.3	19.6	20.6	24.8	19.7	30.9	26.3	25.1	24.5
2	GH-1427	15.7	24.4	15.3	25.8	20.3	22.8	23.5	19.2	28.0	24.5	23.6	23.6
3	SYN617328	20.7	23.3	16.0	31.5	22.9	24.1	24.2	19.5	29.4	23.7	24.7	24.2
4	CMH11-583	15.4	22.3	15.0	25.2	19.5	24.4	24.0	20.4	29.4	26.7	25.4	25.0
5	CCH 9241	20.0	21.6	13.0	27.7	20.5	23.5	26.2	19.8	28.3	25.9	24.6	24.7
6	VaMH 13024	17.5	21.3	14.7	29.5	20.7	23.1	26.6	18.0	29.3	24.8	24.0	24.3
7	GK3202	19.0	24.5	16.0	27.7	21.8	22.4	25.1	19.2	29.9	27.5	23.3	24.6
8	OMH 14-55 (CAH1537)	14.6	23.5	16.3	26.0	20.1	24.4	25.0	18.7	28.5	24.1	23.5	24.0
9	SYN616734	20.5	22.6	15.7	25.6	21.1	23.0	23.9	19.3	29.9	25.8	24.0	24.3
10	PM16103L	19.1	21.7	16.0	29.3	21.5	21.6	25.1	19.3	29.2	25.1	22.2	23.7
11	VNR 3Y069	18.3	22.7	17.0	29.3	21.8	20.5	24.9	19.7	29.6	23.5	23.8	23.6
12	KH-16-149	15.8	25.3	17.0	22.9	20.2	21.2	24.8	20.2	29.0	23.8	26.0	24.1
13	JKMH 4152	20.3	21.6	16.0	26.8	21.2	26.9	25.4	18.8	31.2	27.8	27.9	26.3
14	JH 13278	19.6	23.0	14.0	26.3	20.7	22.7	25.0	19.7	29.2	24.0	24.0	24.1
15	MM9333	18.8	22.9	14.0	27.3	20.7	22.3	26.8	19.7	29.3	25.9	27.5	25.2
16	KMH-5022	19.6	22.3	17.3	28.4	21.9	24.3	24.5	19.7	27.4	24.0	25.9	24.3
17	MM 2030	16.0	23.8	16.0	24.9	20.2	24.1	25.4	18.1	29.3	22.9	23.3	23.8
18	OMH 14-16 (CAH1424)	14.2	24.2	13.0	26.4	19.4	21.6	25.2	18.0	27.7	23.9	24.1	23.4
19	C.P 888	17.0	24.0	13.0	27.8	20.4	25.2	24.1	19.6	30.4	24.8	24.0	24.7
20	DH-300	18.0	22.3	15.3	27.1	20.7	21.7	26.0	20.1	30.0	24.6	23.7	24.3
21	X-7	18.8	22.8	16.7	29.5	21.9	21.6	24.9	18.1	28.3	26.3	23.8	23.8
22	PM16101L	19.5	23.0	19.0	29.2	22.6	21.1	24.6	18.0	29.3	23.9	23.1	23.3
23	MM 2626	19.3	22.6	15.0	28.8	21.4	25.9	26.4	20.0	31.5	27.8	26.7	26.4
24	GH-1436	15.4	24.3	16.0	21.7	19.3	19.6	25.1	18.9	27.6	23.0	22.8	22.8
25	IMHBG-2016-3	16.1	24.7	14.3	26.9	20.5	22.8	24.1	19.7	30.3	26.2	24.4	24.6
26	GK3204	18.6	22.8	15.0	28.5	21.2	20.0	24.6	20.4	30.4	27.2	21.5	24.0
27	HT 16607	19.7	23.2	15.0	27.5	21.3	23.1	26.4	20.1	29.1	26.3	26.7	25.3
28	X-6	19.4	21.8	16.7	26.0	21.0	22.8	24.4	20.0	29.2	26.3	26.3	24.8
29	CMH11-591	19.7	23.1	15.7	28.4	21.7	24.5	23.7	19.0	30.1	27.9	22.7	24.6
30	VNR 33051	18.1	22.4	17.0	28.0	21.4	23.2	25.4	19.4	30.3	26.5	22.4	24.5
31	CCH 167	17.8	22.6	18.3	28.1	21.7	23.3	25.5	18.7	30.3	23.8	24.4	24.3
32	KMH-24752	19.3	22.9	15.7	26.6	21.1	21.6	28.1	19.0	27.3	24.5	25.8	24.4
33	OMH 1462 (CAH 142)	15.4	20.7	16.0	27.9	20.0	22.5	25.8	19.6	30.5	23.9	24.7	24.5
34	KH-POLO Gold	19.6	23.6	14.0	28.5	21.4	21.3	25.6	19.1	30.9	24.4	23.8	24.2

Table No. 1 (Contd.)

S.No.	PEDIGREE	MOISTURE % AT HARVEST NWPZ LUDH	KARN	KANP	PANT	ZN 2 Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	NEPZ ZN 3 Mean
35	TMMH 838	20.0	20.3	14.7	30.5	21.4	20.1	26.3	20.0	31.7	27.1	20.8	24.3
36	ADV 9233	20.6	22.1	15.0	26.0	20.9	22.9	25.7	19.5	30.8	24.0	25.7	24.7
37	OMH 14-27 (CAH1511)	16.5	24.5	16.7	26.6	21.1	23.1	25.2	19.2	27.5	27.9	22.5	24.2
38	HM16305	16.6	21.9	13.0	25.9	19.4	24.2	25.2	19.7	27.8	25.9	22.7	24.2
39	CMH11-586	17.2	22.1	17.0	27.2	20.9	24.2	23.7	18.1	27.0	26.7	24.2	24.0
40	DKC 9178(IQ8623)	20.0	22.5	17.0	27.2	21.7	23.6	26.2	19.7	30.9	24.0	28.3	25.4
41	PM16104L	15.5	24.6	18.3	28.2	21.7	23.8	25.9	18.1	27.5	25.2	25.1	24.2
42	Star-9	18.1	21.6	15.0	27.8	20.6	22.6	25.1	18.5	29.2	24.0	23.7	23.8
43	PM16102L	14.9	21.8	16.0	26.5	19.8	23.4	26.3	19.1	30.6	25.1	23.1	24.6
44	DH-301	17.8	23.1	14.0	25.9	20.2	22.0	25.2	19.8	26.6	24.4	21.4	23.2
45	BH 414012	14.8	23.6	15.7	28.5	20.6	23.6	24.2	18.9	27.0	25.7	24.3	23.9
46	BLH 114	19.9	22.6	15.0	29.5	21.7	22.1	26.0	19.7	30.8	26.9	27.0	25.4
	CHECKS												
47	BIO 9682(C)	16.5	21.8	14.7	28.5	20.3	24.7	25.7	19.7	29.6	23.9	24.4	24.7
48	CMH 08-287(C)	19.0	24.4	16.3	27.5	21.8	21.9	24.8	18.3	30.2	27.9	22.0	24.2
49	CMH 08-282(C)	16.4	23.0	15.3	27.6	20.6	22.6	23.8	19.6	28.4	23.1	24.4	23.6
	Loc. Mean	**17.8**	**22.8**	**15.6**	**27.3**	**20.9**	**22.8**	**25.2**	**19.3**	**29.3**	**25.3**	**24.3**	**24.3**
	C.D. (5%)	1.87	0.34	1.75	1.38	2.15	2.51	3.34	-	2.38	0.97	4.31	1.40
	C.V. (%)	6.46	0.92	6.93	3.12	7.36	6.79	6.60	-	4.05	2.36	10.97	5.07
	F (Prob)	0.00	0.00	0.00	0.00	0.26	0.00	0.94	0.00	0.00	0.00	0.23	0.00

Table No. 1 (Contd.)

		MOISTURE % AT HARVEST							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	BLH 115	26.6	20.4	17.3	17.9	16.0	20.8	13.3	18.9	22.6	17.4	13.6	14.8	15.9	23.1	17.9	20.2
2	GH-1427	23.7	20.9	20.0	17.5	16.0	20.1	14.1	18.9	22.8	17.6	15.7	17.7	16.0	20.7	18.4	20.2
3	SYN617328	24.4	21.9	17.4	18.2	18.6	25.7	14.0	20.0	22.9	18.3	19.0	16.5	15.0	22.6	19.0	21.4
4	CMH11-583	25.5	20.8	21.9	17.8	17.8	21.0	14.2	19.8	22.3	17.6	18.9	18.2	16.5	22.4	19.3	21.0
5	CCH 9241	24.6	20.2	19.3	16.4	16.8	21.8	13.9	19.0	22.9	18.3	18.0	15.4	16.6	20.9	18.7	20.7
6	VaMH 13024	24.4	21.5	19.2	17.7	16.5	21.9	14.1	19.3	23.0	17.2	20.0	14.5	16.3	21.1	18.7	20.7
7	GK3202	23.5	20.6	18.8	17.0	15.6	20.9	14.2	18.6	22.3	18.1	18.6	15.3	15.6	23.0	18.8	20.8
8	OMH 14-55 (CAH1537)	24.6	21.3	23.1	17.5	16.4	21.9	15.3	20.0	22.8	17.9	18.5	15.4	14.1	19.8	18.1	20.6
9	SYN616734	24.1	21.2	18.7	17.5	17.3	20.9	16.8	19.5	22.8	17.6	18.7	16.5	14.9	22.2	18.8	20.8
10	PM16103L	24.7	21.1	17.1	16.7	15.2	21.9	14.6	18.7	22.5	18.5	18.1	18.2	16.3	21.7	19.2	20.6
11	VNR 3Y069	23.9	21.6	16.1	17.0	16.9	23.1	14.3	19.0	22.3	17.4	15.2	15.3	15.8	21.4	17.9	20.4
12	KH-16-149	23.7	17.9	16.4	16.3	16.6	21.0	13.7	17.9	22.8	17.6	11.5	19.6	15.5	21.4	18.0	20.0
13	JKMH 4152	26.9	20.9	19.3	18.3	16.9	23.9	14.8	20.1	22.8	18.0	17.8	17.5	14.8	23.9	19.1	21.7
14	JH 13278	24.7	19.9	18.0	17.3	17.1	22.3	14.6	19.1	22.9	18.1	19.7	16.8	14.7	21.1	18.9	20.6
15	MM9333	23.4	21.1	17.2	16.7	16.8	22.6	15.2	19.0	23.0	17.3	16.3	18.2	14.8	21.1	18.4	20.8
16	KMH-5022	24.1	20.0	19.1	16.8	18.4	21.2	15.5	19.3	22.8	18.2	17.0	14.2	15.2	22.4	18.3	20.8
17	MM 2030	22.9	18.5	15.2	17.6	18.3	19.4	14.9	18.1	22.6	17.9	13.1	15.3	15.5	21.4	17.6	19.8
18	OMH 14-16 (CAH1424)	24.1	21.9	16.8	16.9	17.1	20.8	13.3	18.7	22.9	17.8	13.9	15.8	15.6	19.6	17.6	19.8
19	C.P 888	24.5	23.2	24.3	18.7	15.6	20.0	14.8	20.1	22.8	17.9	17.1	17.8	15.1	23.4	19.0	21.1
20	DH-300	23.8	20.8	21.1	15.2	17.5	21.6	14.3	19.1	22.6	18.1	19.4	14.5	14.3	21.0	18.3	20.5
21	X-7	22.7	22.8	19.1	17.5	18.6	19.8	14.9	19.3	22.7	17.9	17.4	16.4	15.9	21.2	18.6	20.7
22	PM16101L	24.8	22.1	17.1	16.9	17.4	20.9	16.1	19.3	22.8	16.6	20.6	14.4	14.9	22.4	18.6	20.8
23	MM 2626	22.9	20.9	17.8	16.8	18.0	23.2	13.8	19.0	22.7	18.1	19.0	15.9	14.4	24.1	19.0	21.4
24	GH-1436	19.9	20.2	13.8	18.4	16.6	19.1	14.3	17.4	22.9	17.6	14.8	16.1	13.9	20.2	17.6	19.2
25	IMHBG-2016-3	22.8	21.4	19.2	16.3	16.1	22.0	13.8	18.8	23.1	18.0	19.6	16.2	15.8	18.9	18.6	20.5
26	GK3204	24.7	20.5	18.8	17.9	16.6	19.1	13.5	18.7	22.9	17.4	18.4	14.2	15.0	21.6	18.2	20.4
27	HT 16607	24.1	20.5	18.7	18.3	18.7	22.5	15.7	19.8	23.0	17.3	19.7	17.2	15.7	21.4	19.0	21.3
28	X-6	24.4	21.1	19.8	16.1	17.1	22.7	14.3	19.3	23.2	17.4	15.4	15.9	14.6	23.2	18.2	20.8
29	CMH11-591	25.1	26.1	20.8	17.9	16.2	22.6	15.1	20.5	22.9	18.2	21.2	15.1	16.7	23.3	19.5	21.5
30	VNR 33051	25.2	21.2	13.4	16.7	17.6	21.0	15.6	18.7	22.9	16.5	17.8	14.8	15.9	22.9	18.5	20.6
31	CCH 167	23.2	23.2	20.7	17.8	16.8	19.2	15.1	19.4	22.8	17.5	14.6	16.7	15.9	21.2	18.1	20.7
32	KMH-24752	25.8	19.7	12.6	17.8	17.0	23.2	14.7	18.7	22.3	17.7	15.9	17.5	15.7	20.9	18.3	20.5
33	OMH 1462 (CAH 142)	23.5	22.3	19.7	17.8	17.7	22.2	13.5	19.5	22.7	17.3	16.1	15.6	15.6	20.0	17.9	20.5
34	KH-POLO Gold	23.8	20.5	15.2	16.5	17.2	21.7	14.7	18.5	22.2	17.8	16.3	16.4	15.8	21.6	18.3	20.4

Table No. 1 (Contd.)

S.No.	PEDIGREE	MOISTURE % AT HARVEST HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
35	TMMH 838	25.4	21.5	20.4	19.0	18.7	24.8	13.8	20.5	22.8	17.8	16.0	14.4	14.6	20.7	17.7	20.9
36	ADV 9233	26.6	22.1	18.0	17.7	18.7	23.0	14.8	20.1	22.8	17.4	20.7	17.4	14.3	22.5	19.2	21.2
37	OMH 14-27 (CAH1511)	23.8	23.5	20.3	17.7	17.9	19.6	13.6	19.5	22.3	17.3	15.8	16.7	14.8	23.3	18.4	20.7
38	HM16305	21.9	18.4	14.5	17.1	15.9	20.8	13.5	17.4	22.1	17.2	13.0	15.4	15.4	20.9	17.3	19.5
39	CMH11-586	26.0	21.6	22.7	-	16.6	20.9	15.3	20.5	22.9	17.5	20.9	14.5	14.1	22.3	18.7	21.0
40	DKC 9178(IQ8623)	24.7	22.4	22.7	17.5	17.5	23.9	15.3	20.6	22.7	17.2	18.1	14.9	15.3	22.6	18.4	21.5
41	PM16104L	25.2	17.3	16.8	17.9	15.8	19.5	13.2	17.9	21.9	18.6	13.8	18.2	15.7	20.5	18.1	20.3
42	Star-9	23.4	18.8	18.2	17.9	16.5	20.2	14.4	18.5	23.0	17.5	19.0	18.0	15.1	21.3	19.0	20.4
43	PM16102L	23.7	20.8	20.3	17.4	17.2	20.3	13.7	19.0	23.0	17.4	20.7	17.7	16.0	21.8	19.4	20.7
44	DH-301	21.4	20.2	20.7	17.1	16.0	19.7	14.6	18.5	22.3	17.9	20.1	15.6	16.0	19.1	18.5	20.0
45	BH 414012	22.9	19.2	19.4	16.8	16.9	18.5	13.8	18.2	22.9	17.6	13.2	16.6	15.9	19.7	17.7	20.0
46	BLH 114	22.8	20.2	12.6	16.1	17.3	22.0	14.3	17.9	22.4	17.4	18.6	17.9	16.1	23.9	19.4	20.9
	CHECKS																
47	BIO 9682(C)	25.7	21.2	17.2	18.0	16.6	24.9	14.7	19.7	21.7	18.2	17.7	14.8	17.0	20.5	18.3	20.8
48	CMH 08-287(C)	25.5	21.5	19.4	17.3	16.4	21.1	14.6	19.4	22.0	17.7	20.4	13.9	14.8	20.3	18.2	20.7
49	CMH 08-282(C)	23.1	21.8	18.6	18.2	16.4	22.4	14.4	19.3	22.2	17.3	19.5	15.0	14.7	22.0	18.4	20.4
	Loc. Mean	**24.1**	**21.0**	**18.4**	**17.3**	**17.0**	**21.5**	**14.4**	**19.1**	**22.6**	**17.7**	**17.4**	**16.1**	**15.4**	**21.6**	**18.5**	**20.6**
	C.D. (5%)	1.89	1.21	3.48	0.79	1.30	1.78	0.48	1.45	0.81	0.78	1.73	0.22	1.01	3.35	1.50	0.79
	C.V. (%)	4.83	3.56	11.65	2.79	4.71	5.12	2.03	7.19	2.22	2.73	6.13	0.86	4.07	9.58	7.14	6.58
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.29	0.48	0.00

Table No. 1 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING %				NWPZ ZN 2 Mean							NEPZ ZN 3 Mean
		LUDH	KARN	KANP	PANT		DHOL	RANC	BHUB	VARA	BAHR	SABO	
1	BLH 115	87.7	79.2	72.0	89.0	82.0	78.0	87.7	79.3	79.0	75.7	80.5	80.0
2	GH-1427	81.3	80.0	72.0	86.6	80.0	79.5	85.8	80.5	76.5	69.7	79.5	78.6
3	SYN617328	82.0	78.8	74.0	83.2	79.5	78.5	86.0	80.5	79.0	79.4	77.2	80.1
4	CMH11-583	81.2	79.2	75.0	81.5	79.2	78.0	83.0	79.5	76.5	70.0	80.6	77.9
5	CCH 9241	86.8	80.0	73.0	83.5	80.8	80.0	85.2	78.5	74.5	77.5	77.3	78.8
6	VaMH 13024	80.7	79.3	72.0	87.6	79.9	79.5	84.9	80.3	76.0	77.0	80.1	79.6
7	GK3202	88.8	79.5	71.0	86.5	81.5	79.0	86.0	79.5	77.0	78.4	81.4	80.2
8	OMH 14-55 (CAH1537)	79.7	80.3	70.0	79.3	77.3	81.5	81.9	78.3	73.5	75.5	77.3	78.0
9	SYN616734	86.3	78.0	72.0	81.2	79.4	82.0	87.0	80.5	74.5	78.0	80.7	80.5
10	PM16103L	85.6	78.2	74.0	87.0	81.2	82.0	87.5	81.1	78.5	80.3	80.9	81.7
11	VNR 3Y069	85.5	79.5	70.0	85.6	80.2	80.5	88.1	80.4	79.5	77.1	82.8	81.4
12	KH-16-149	88.5	79.1	75.0	84.8	81.8	78.5	85.4	80.9	77.5	67.4	84.9	79.1
13	JKMH 4152	84.7	80.0	76.0	86.5	81.8	79.5	86.4	82.5	76.0	75.7	79.1	79.9
14	JH 13278	85.1	78.7	78.0	84.8	81.6	79.5	85.0	79.5	80.5	76.3	77.1	79.6
15	MM9333	85.0	80.6	76.0	86.2	82.0	77.0	85.4	81.5	79.5	72.8	74.8	78.5
16	KMH-5022	81.5	79.6	71.0	85.5	79.4	79.5	85.1	81.6	78.5	77.9	79.9	80.4
17	MM 2030	84.9	78.7	74.0	82.4	80.0	80.0	84.3	80.3	81.0	74.7	76.5	79.5
18	OMH 14-16 (CAH1424)	80.4	79.3	75.0	84.8	79.9	82.0	83.8	80.9	76.0	76.9	80.3	80.0
19	C.P 888	82.5	78.5	73.0	83.1	79.3	78.0	85.4	80.4	72.0	74.1	74.3	77.4
20	DH-300	83.1	80.4	77.0	82.5	80.7	79.5	84.0	81.3	75.0	79.6	80.5	80.0
21	X-7	85.2	78.3	72.0	86.8	80.6	78.5	84.9	81.2	75.5	80.8	79.3	80.0
22	PM16101L	85.1	79.0	74.0	82.9	80.3	80.0	83.9	82.0	75.0	72.3	79.1	78.7
23	MM 2626	82.9	80.0	70.0	77.5	77.6	82.0	86.8	81.9	73.0	76.6	79.7	80.0
24	GH-1436	80.4	80.2	78.0	77.4	79.0	81.5	83.4	79.6	75.5	76.0	80.1	79.3
25	IMHBG-2016-3	80.5	80.1	75.0	83.5	79.8	77.5	82.3	81.6	75.5	77.2	81.6	79.3
26	GK3204	85.8	79.6	78.0	87.1	82.6	79.5	85.8	81.5	75.0	79.4	80.1	80.2
27	HT 16607	84.5	79.5	76.0	84.8	81.2	80.5	85.0	81.8	78.5	78.8	78.1	80.5
28	X-6	85.6	80.2	74.0	85.1	81.2	82.0	85.6	82.7	79.5	79.5	79.4	81.4
29	CMH11-591	83.8	80.8	79.0	79.9	80.9	80.0	84.0	78.3	76.0	73.9	74.1	77.7
30	VNR 33051	82.0	79.7	73.7	85.0	80.1	79.5	84.1	81.4	76.0	75.5	83.2	79.9
31	CCH 167	86.2	79.5	74.0	84.4	81.0	80.0	85.2	81.9	79.5	75.3	80.1	80.3
32	KMH-24752	85.6	80.6	70.0	82.5	79.7	80.5	82.6	81.1	74.5	77.4	77.3	78.9
33	OMH 1462 (CAH 142)	86.2	80.8	78.0	84.1	82.3	76.0	86.9	79.8	76.0	70.9	78.3	78.0
34	KH-POLO Gold	77.3	80.7	75.0	81.3	78.6	75.5	81.2	80.0	76.0	71.5	74.6	76.5

Table No. 1 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	NEPZ ZN 3 Mean
35	TMMH 838	80.7	77.2	78.0	84.7	80.2	81.0	82.2	81.0	63.5	69.7	71.3	74.8
36	ADV 9233	90.2	79.1	76.0	86.5	82.9	80.0	87.6	79.8	77.0	71.3	82.8	79.7
37	OMH 14-27 (CAH1511)	83.6	80.3	74.0	78.9	79.2	81.0	85.2	80.7	79.0	78.3	82.3	81.1
38	HM16305	81.4	74.2	79.0	81.9	79.1	81.0	85.5	79.2	73.0	76.2	76.0	78.5
39	CMH11-586	82.7	78.5	73.7	81.3	79.1	81.0	81.4	79.0	73.5	75.1	80.3	78.4
40	DKC 9178(IQ8623)	79.2	80.7	73.7	87.9	80.3	78.5	82.4	81.0	71.5	77.6	75.9	77.8
41	PM16104L	84.3	80.0	74.0	86.0	81.1	81.0	86.8	79.3	78.5	80.1	80.6	81.0
42	Star-9	84.3	80.5	70.0	86.7	80.4	82.0	85.2	80.4	75.0	74.6	79.8	79.5
43	PM16102L	82.6	79.9	78.0	85.1	81.4	80.0	84.9	81.3	73.5	78.2	75.6	78.9
44	DH-301	81.7	80.0	75.0	84.9	80.4	79.5	82.4	80.9	79.5	74.5	79.1	79.3
45	BH 414012	83.1	80.2	72.7	85.1	80.3	81.0	82.5	80.0	78.0	75.7	79.2	79.4
46	BLH 114	85.7	82.8	74.7	87.8	82.7	81.0	87.0	80.4	77.5	74.6	77.1	79.6
	CHECKS												
47	BIO 9682(C)	82.5	80.3	74.3	82.0	79.8	81.0	84.8	80.4	75.0	78.4	78.1	79.6
48	CMH 08-287(C)	82.5	79.6	73.3	84.7	80.0	82.0	83.8	81.4	78.5	80.5	79.6	81.0
49	CMH 08-282(C)	81.2	80.3	70.3	85.1	79.2	82.0	84.4	80.4	78.5	74.9	79.1	79.9
	Loc. Mean	**83.6**	**79.6**	**74.1**	**84.1**	**80.4**	**79.9**	**84.8**	**80.6**	**76.3**	**75.9**	**78.9**	**79.4**
	C.D. (5%)	2.76	0.31	0.88	1.47	3.26	2.63	2.66	0.00	4.73	1.38	3.71	2.39
	C.V. (%)	2.04	0.24	0.73	1.08	2.90	2.03	1.56	0.00	3.09	1.12	2.90	2.65
	F (Prob)	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 1 (Contd.)

		GRAIN SHELLING %							PZ								CWZ	
									ZN 4								ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB		Mean	Mean
1	BLH 115	77.0	79.6	90.0	82.9	81.6	82.9	87.5	83.0	82.9	76.4	84.6	80.8	84.5	81.4		81.7	81.7
2	GH-1427	82.0	80.6	86.6	81.5	78.2	81.1	84.5	82.1	82.5	77.2	87.8	80.2	82.8	78.7		81.5	80.6
3	SYN617328	74.4	80.3	83.7	79.0	73.6	77.7	84.5	79.0	82.8	78.9	87.2	80.1	83.8	75.8		81.4	80.0
4	CMH11-583	74.9	80.5	85.1	79.3	75.0	79.9	82.0	79.5	82.8	76.1	89.4	80.7	71.2	77.5		79.6	79.1
5	CCH 9241	77.3	80.3	87.0	79.0	76.5	79.4	86.0	80.8	82.6	78.0	80.7	78.9	84.1	78.0		80.4	80.2
6	VaMH 13024	74.9	77.2	84.5	80.5	76.3	79.6	83.0	79.4	82.8	75.5	80.5	78.6	81.8	78.0		79.5	79.6
7	GK3202	75.2	80.6	87.9	85.0	78.0	80.9	87.0	82.1	82.9	76.4	84.4	79.4	89.3	78.2		81.7	81.4
8	OMH 14-55 (CAH1537)	74.5	78.4	83.0	78.7	75.4	72.8	81.0	77.7	82.7	77.8	83.3	77.1	77.9	73.7		78.7	78.0
9	SYN616734	73.5	80.9	88.2	78.8	76.4	80.5	82.5	80.1	82.9	77.9	85.8	80.0	79.2	77.0		80.5	80.2
10	PM16103L	74.0	84.2	89.4	83.5	83.5	86.2	88.0	84.1	83.0	77.3	83.1	80.8	69.3	80.6		79.0	81.6
11	VNR 3Y069	79.5	82.1	88.0	82.0	75.4	80.0	87.0	82.0	82.6	75.8	89.0	80.9	77.7	80.5		81.1	81.3
12	KH-16-149	82.2	82.8	89.4	81.8	80.1	81.8	88.0	83.7	83.2	73.2	87.6	80.4	81.3	82.7		81.4	81.6
13	JKMH 4152	76.1	80.7	87.7	82.1	77.1	80.7	86.0	81.5	82.5	78.0	83.0	81.0	80.0	77.6		80.3	80.8
14	JH 13278	82.4	82.0	87.6	82.0	80.3	84.2	87.0	83.6	82.9	79.2	84.4	81.4	75.8	81.3		80.8	81.5
15	MM9333	80.1	81.3	87.8	82.0	78.3	81.3	85.0	82.2	82.9	75.8	90.5	81.2	75.6	78.6		80.7	80.8
16	KMH-5022	74.9	75.5	85.6	79.7	76.9	80.2	83.5	79.5	83.0	77.7	81.4	76.7	77.4	76.4		78.8	79.5
17	MM 2030	77.4	80.5	89.6	82.0	76.7	80.6	83.5	81.5	82.6	74.6	84.5	78.6	79.5	77.3		79.5	80.2
18	OMH 14-16 (CAH1424)	77.6	82.9	86.3	80.4	77.2	81.2	84.5	81.4	82.6	76.0	85.6	77.5	77.0	76.7		79.2	80.2
19	C.P 888	78.0	80.8	84.9	80.5	77.8	79.7	83.0	80.7	82.7	78.1	80.1	80.6	82.6	79.2		80.6	79.5
20	DH-300	78.2	78.8	86.2	83.0	77.6	79.9	84.5	81.1	82.6	78.2	83.8	79.4	74.5	77.5		79.3	80.3
21	X-7	74.4	80.5	87.2	79.6	76.2	78.4	82.0	79.8	83.2	76.4	87.6	78.1	75.9	75.1		79.4	79.9
22	PM16101L	72.1	76.8	87.1	81.6	79.0	77.9	85.5	80.0	83.0	74.2	81.5	78.3	80.6	79.4		79.5	79.6
23	MM 2626	75.1	82.1	87.1	80.6	79.0	81.0	86.5	81.6	83.0	78.6	85.5	77.8	84.5	77.6		81.2	80.4
24	GH-1436	73.4	81.6	86.3	79.1	78.1	81.3	87.0	81.0	82.8	78.1	83.3	79.1	81.1	80.3		80.8	80.1
25	IMHBG-2016-3	75.6	74.7	83.9	78.8	73.8	75.5	81.5	77.7	82.8	78.1	77.2	79.4	88.2	76.6		80.4	79.2
26	GK3204	67.7	82.4	88.0	81.5	79.1	81.2	88.0	81.1	82.7	75.4	86.1	77.8	80.5	78.5		80.2	80.9
27	HT 16607	81.2	80.0	84.3	79.5	77.5	80.4	84.0	81.0	82.5	77.6	85.9	80.7	80.1	79.2		81.0	80.9
28	X-6	74.3	79.8	87.8	82.3	80.3	81.8	85.5	81.7	82.9	77.7	87.1	80.5	88.5	80.9		82.9	81.9
29	CMH11-591	77.3	74.1	86.4	79.5	81.3	79.1	83.0	80.1	82.6	76.9	85.5	79.2	77.6	77.3		79.8	79.5
30	VNR 33051	77.8	81.7	86.3	80.8	79.2	82.1	84.5	81.8	82.8	74.2	80.0	78.4	78.2	78.8		78.7	80.2
31	CCH 167	73.1	80.3	88.9	81.8	73.2	80.3	86.0	80.5	82.7	75.9	80.7	79.1	78.8	77.0		79.0	80.2
32	KMH-24752	77.5	82.0	90.0	81.3	77.6	80.1	87.5	82.3	82.6	77.7	84.4	79.6	82.5	79.0		81.0	80.6
33	OMH 1462 (CAH 142)	76.6	79.7	86.6	78.6	78.4	79.3	86.0	80.7	82.9	77.6	84.2	76.8	80.1	77.7		79.9	80.1
34	KH-POLO Gold	74.6	73.4	83.0	78.9	76.8	75.7	81.0	77.6	82.6	75.8	80.8	77.5	77.4	72.1		77.7	77.5

Table No. 1 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
35	TMMH 838	69.8	77.5	85.8	77.8	73.5	75.8	83.0	77.6	82.7	74.0	87.0	77.8	81.0	63.9	77.7	77.3
36	ADV 9233	82.2	80.6	86.5	81.1	79.0	82.1	87.0	82.6	82.9	75.9	89.7	81.6	82.0	80.0	82.0	81.8
37	OMH 14-27 (CAH1511)	83.9	73.7	87.5	82.0	76.9	79.6	84.5	81.1	82.6	76.6	90.2	81.2	75.2	80.2	81.0	80.7
38	HM16305	78.6	80.0	85.7	78.8	77.6	81.3	83.5	80.8	82.9	76.2	79.1	79.2	79.1	77.7	79.0	79.4
39	CMH11-586	69.5	76.7	84.1	-	74.3	78.5	81.5	77.4	82.6	74.0	86.1	78.3	83.5	75.6	80.0	78.7
40	DKC 9178(IQ8623)	69.6	76.6	81.1	77.9	77.4	76.4	82.0	77.3	82.9	76.1	75.3	78.8	74.4	75.7	77.2	77.9
41	PM16104L	78.1	84.9	89.0	81.5	79.9	81.8	88.5	83.4	82.9	76.5	86.8	81.9	74.9	77.2	80.0	81.5
42	Star-9	76.9	78.6	87.9	80.0	78.0	80.3	85.0	81.0	82.7	77.3	85.6	80.3	82.0	74.4	80.4	80.3
43	PM16102L	74.5	80.1	86.9	80.5	76.7	78.7	86.0	80.5	82.9	75.2	89.3	80.7	83.3	71.4	80.5	80.2
44	DH-301	78.0	78.2	85.8	79.5	78.7	82.0	84.5	81.0	82.8	77.3	90.0	79.6	85.1	78.8	82.3	80.8
45	BH 414012	72.9	82.1	86.8	82.0	78.3	81.6	85.0	81.2	83.0	76.6	80.5	80.2	83.8	78.9	80.5	80.4
46	BLH 114	81.6	82.4	87.6	81.3	78.0	81.4	87.5	82.8	82.7	74.6	81.3	81.5	80.5	79.9	80.1	81.2
	CHECKS																
47	BIO 9682(C)	73.6	80.3	86.3	77.5	78.2	82.3	85.0	80.4	82.7	77.1	86.9	80.1	78.6	75.9	80.2	80.0
48	CMH 08-287(C)	76.5	79.8	84.3	79.5	79.3	79.7	83.5	80.4	82.9	78.5	89.9	76.3	79.6	79.6	81.1	80.7
49	CMH 08-282(C)	75.0	79.0	86.1	80.5	76.4	77.9	84.0	79.8	83.1	78.0	80.5	80.4	82.6	77.0	80.3	79.9
	Loc. Mean	**76.2**	**79.8**	**86.6**	**80.6**	**77.6**	**80.1**	**84.8**	**80.8**	**82.8**	**76.6**	**84.6**	**79.5**	**80.1**	**77.6**	**80.2**	**80.2**
	C.D. (5%)	8.02	1.69	0.88	1.30	2.60	1.19	0.74	1.92	0.67	2.23	2.17	2.98	7.64	4.65	3.00	1.30
	C.V. (%)	6.49	1.31	0.63	0.98	2.07	0.92	0.54	2.26	0.50	1.79	1.58	2.32	5.89	3.70	3.29	2.80
	F (Prob)	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.01	0.00	0.00	0.19	0.00

Table No. 1 (Contd.)

		STAND AT HARVEST ('000/ha)				NWPZ							NEPZ
						ZN 2							ZN 3
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	Mean
1	BLH 115	78.5	59.4	73.6	65.2	69.2	48.3	68.8	61.1	61.5	59.7	72.9	62.0
2	GH-1427	83.3	57.8	75.0	57.8	68.5	44.4	68.8	63.9	65.6	68.1	71.5	63.7
3	SYN617328	81.9	58.9	78.5	56.3	68.9	46.7	71.4	62.5	58.3	63.2	69.4	61.9
4	CMH11-583	61.8	61.1	76.4	63.7	65.8	39.4	63.4	62.5	53.1	59.0	67.4	57.5
5	CCH 9241	83.3	57.8	78.5	64.4	71.0	55.0	66.1	62.5	63.5	68.8	66.7	63.8
6	VaMH 13024	74.3	58.3	77.1	57.0	66.7	40.0	56.3	63.2	61.5	59.7	68.1	58.1
7	GK3202	80.6	60.6	77.8	63.0	70.5	47.8	69.6	62.5	60.4	67.4	72.2	63.3
8	OMH 14-55 (CAH1537)	70.1	60.0	75.7	60.7	66.6	47.8	70.5	61.8	63.5	62.5	66.7	62.1
9	SYN616734	83.3	58.9	73.6	57.8	68.4	50.6	71.4	61.1	66.7	66.7	74.3	65.1
10	PM16103L	84.7	60.6	72.9	66.7	71.2	56.7	71.4	64.6	62.5	67.4	75.7	66.4
11	VNR 3Y069	70.1	60.0	74.3	61.5	66.5	38.3	63.4	63.2	57.3	63.2	66.0	58.6
12	KH-16-149	82.6	57.2	75.7	65.2	70.2	42.8	64.3	62.5	67.7	59.0	72.9	61.5
13	JKMH 4152	67.4	62.2	75.0	57.8	65.6	38.9	48.2	60.4	60.4	67.4	66.0	56.9
14	JH 13278	84.7	58.3	77.1	64.4	71.1	50.0	72.3	62.5	65.6	63.2	72.9	64.4
15	MM9333	85.4	58.3	77.8	63.7	71.3	46.1	63.4	64.6	64.6	68.8	78.5	64.3
16	KMH-5022	81.9	57.2	72.2	62.2	68.4	52.2	74.1	58.3	60.4	67.4	68.8	63.5
17	MM 2030	82.6	58.9	75.7	63.7	70.2	48.3	70.5	64.6	63.5	66.7	74.3	64.7
18	OMH 14-16 (CAH1424)	83.3	61.7	75.7	63.7	71.1	37.8	69.6	62.5	66.7	72.2	76.4	64.2
19	C.P 888	85.4	60.0	77.1	52.6	68.8	43.3	68.8	62.5	66.7	63.9	66.0	61.9
20	DH-300	84.7	59.4	75.7	61.5	70.3	48.3	70.5	63.9	66.7	63.9	72.2	64.3
21	X-7	81.3	57.2	74.3	63.0	68.9	48.3	68.8	60.4	62.5	64.6	72.2	62.8
22	PM16101L	82.6	55.6	75.7	61.5	68.8	46.1	68.8	58.3	64.6	60.4	70.8	61.5
23	MM 2626	79.9	61.7	75.0	63.0	69.9	41.1	67.9	63.9	63.5	61.8	77.1	62.5
24	GH-1436	86.8	61.7	73.6	61.5	70.9	37.8	77.7	60.4	61.5	66.7	58.3	60.4
25	IMHBG-2016-3	76.4	61.1	77.8	59.3	68.6	55.6	65.2	64.6	66.7	68.8	75.7	66.1
26	GK3204	81.9	60.0	77.8	65.2	71.2	50.6	66.1	62.5	63.5	70.8	74.3	64.6
27	HT 16607	82.6	59.4	75.0	66.7	70.9	47.8	68.8	61.8	64.6	60.4	72.9	62.7
28	X-6	88.9	58.3	77.8	61.5	71.6	49.4	72.3	62.5	69.8	67.4	78.5	66.6
29	CMH11-591	68.8	55.6	75.0	55.6	63.7	41.7	32.1	63.2	57.3	60.4	75.7	55.1
30	VNR 33051	80.6	60.0	78.5	61.5	70.1	47.2	68.8	62.5	66.7	57.6	72.2	62.5
31	CCH 167	79.2	63.3	77.1	62.2	70.5	48.9	66.1	63.2	65.6	59.7	73.6	62.9
32	KMH-24752	80.6	57.2	75.0	62.2	68.8	46.7	72.3	61.8	67.7	66.7	74.3	64.9
33	OMH 1462 (CAH 142)	79.2	58.3	73.6	63.7	68.7	41.7	67.9	62.5	68.8	65.3	70.8	62.8
34	KH-POLO Gold	77.1	59.4	77.8	58.5	68.2	47.8	75.0	64.6	55.2	72.2	63.9	63.1

Table No. 1 (Contd.)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	NEPZ ZN 3 Mean
35	TMMH 838	72.2	61.7	77.8	45.9	64.4	43.9	53.6	63.2	57.3	63.2	61.1	57.0
36	ADV 9233	86.1	58.3	75.0	64.4	71.0	50.0	66.1	63.9	64.6	54.9	52.8	58.7
37	OMH 14-27 (CAH1511)	78.5	57.8	77.8	57.0	67.8	45.6	67.9	62.5	62.5	71.5	72.9	63.8
38	HM16305	81.3	57.2	75.0	63.0	69.1	52.2	67.9	59.7	60.4	68.8	70.8	63.3
39	CMH11-586	54.9	57.2	78.5	57.0	61.9	45.6	48.2	60.4	56.3	66.0	58.3	55.8
40	DKC 9178(IQ8623)	84.0	62.2	78.5	61.5	71.6	42.2	68.8	62.5	68.8	68.1	77.8	64.7
41	PM16104L	86.8	59.4	77.1	60.0	70.8	51.1	68.8	60.4	67.7	69.4	74.3	65.3
42	Star-9	78.5	58.9	75.0	52.6	66.2	38.3	68.8	62.5	61.5	61.8	70.1	60.5
43	PM16102L	85.4	61.1	73.6	65.2	71.3	46.7	75.0	61.8	63.5	63.2	77.8	64.7
44	DH-301	86.8	57.2	77.8	60.0	70.5	56.7	68.8	60.4	62.5	69.4	77.1	65.8
45	BH 414012	81.3	63.3	78.5	56.3	69.8	44.4	74.1	61.1	65.6	68.1	69.4	63.8
46	BLH 114	79.9	57.8	78.5	65.9	70.5	47.2	67.9	60.4	62.5	69.4	57.6	60.8
	CHECKS												
47	BIO 9682(C)	74.3	61.7	82.6	59.3	69.5	48.3	48.2	63.9	68.8	54.9	63.2	57.9
48	CMH 08-287(C)	84.0	60.0	81.3	62.2	71.9	44.4	71.4	59.7	60.4	58.3	75.0	61.6
49	CMH 08-282(C)	84.7	61.1	84.0	62.2	73.0	54.4	65.2	63.2	65.6	59.7	79.2	64.6
	Loc. Mean	**79.9**	**59.4**	**76.5**	**61.0**	**69.2**	**46.6**	**66.5**	**62.2**	**63.3**	**64.6**	**70.7**	**62.3**
	C.D. (5%)	7.49	2.64	4.23	7.66	5.68	10.78	10.15	5.31	8.26	6.53	11.95	5.46
	C.V. (%)	5.78	2.74	3.41	7.75	5.87	14.26	7.59	5.26	6.49	6.23	10.42	7.70
	F (Prob)	0.00	0.00	0.00	0.00	0.15	0.02	0.00	0.92	0.03	0.00	0.00	0.00

Table No. 1 (Contd.)

		STAND AT HARVEST ('000/ha)							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	BLH 115	60.6	57.2	73.6	72.9	59.0	63.9	53.9	63.0	63.9	62.5	66.7	69.4	36.1	42.2	56.8	62.2
2	GH-1427	62.8	63.3	70.1	73.6	59.7	67.4	45.6	63.2	63.9	54.9	66.7	66.1	38.2	48.3	56.3	62.5
3	SYN617328	66.1	65.0	77.1	75.0	59.7	66.7	57.2	66.7	63.9	63.9	66.1	62.8	59.0	37.8	58.9	63.8
4	CMH11-583	42.2	58.9	56.3	63.2	47.2	66.0	48.9	54.7	63.9	63.2	63.9	60.0	53.5	28.9	55.6	57.6
5	CCH 9241	64.4	64.4	74.3	73.6	58.3	66.7	48.9	64.4	63.9	66.0	66.7	66.7	37.5	41.1	57.0	63.4
6	VaMH 13024	28.9	59.4	70.8	68.8	41.0	64.6	48.3	54.5	63.9	60.4	58.9	59.4	35.4	30.0	51.3	56.8
7	GK3202	61.7	64.4	79.9	71.5	61.8	66.0	47.8	64.7	63.9	59.0	65.6	66.1	49.3	42.8	57.8	63.5
8	OMH 14-55 (CAH1537)	60.6	59.4	70.8	74.3	56.3	66.7	49.4	62.5	63.9	59.7	61.1	45.6	47.2	41.7	53.2	60.7
9	SYN616734	62.8	63.3	79.2	70.8	60.4	63.9	46.7	63.9	63.9	56.9	66.7	66.1	50.7	42.2	57.8	63.4
10	PM16103L	58.3	64.4	77.1	65.3	59.7	66.0	54.4	63.6	63.2	60.4	66.1	69.4	49.3	39.4	58.0	64.2
11	VNR 3Y069	53.3	61.7	75.0	69.4	53.5	61.8	46.1	60.1	63.9	59.0	58.9	66.1	20.8	38.9	51.3	58.5
12	KH-16-149	60.0	63.9	72.9	71.5	60.4	65.3	48.9	63.3	63.9	65.3	65.0	65.6	34.0	45.6	56.6	62.3
13	JKMH 4152	54.4	56.1	61.8	68.8	52.1	62.5	46.7	57.5	63.9	56.9	61.1	59.4	45.1	48.9	55.9	58.3
14	JH 13278	61.7	63.9	75.7	71.5	60.4	67.4	54.4	65.0	63.2	58.3	64.4	65.0	32.6	43.3	54.5	63.2
15	MM9333	60.6	63.9	73.6	69.4	57.6	66.0	51.1	63.2	63.9	63.2	65.6	68.9	61.1	45.6	61.4	64.4
16	KMH-5022	63.3	59.4	75.0	78.5	59.7	63.9	51.1	64.4	63.9	63.9	62.8	65.0	66.0	34.4	59.3	63.6
17	MM 2030	58.3	48.9	76.4	70.1	58.3	63.9	50.6	60.9	63.9	57.6	64.4	70.0	43.8	42.8	57.1	62.5
18	OMH 14-16 (CAH1424)	64.4	62.2	73.6	67.4	56.3	64.6	47.2	62.2	63.9	56.9	61.7	56.1	49.3	36.1	54.0	62.1
19	C.P 888	62.8	61.7	78.5	74.3	59.7	63.2	52.8	64.7	63.9	59.7	63.9	60.0	45.1	42.2	55.8	62.3
20	DH-300	63.3	61.1	74.3	70.8	61.1	64.6	58.9	64.9	63.9	61.8	64.4	61.7	38.9	40.6	55.2	63.1
21	X-7	62.8	62.8	68.1	73.6	61.1	67.4	48.9	63.5	63.9	58.3	63.9	69.4	42.4	34.4	55.4	62.2
22	PM16101L	62.8	62.8	79.2	65.3	58.3	64.6	51.1	63.4	63.2	59.7	64.4	69.4	45.1	40.6	57.1	62.2
23	MM 2626	59.4	58.9	70.8	68.1	59.7	66.7	46.7	61.5	63.9	59.7	63.9	66.7	43.8	38.3	56.0	61.8
24	GH-1436	56.1	66.7	65.3	68.8	52.1	66.7	52.8	61.2	63.9	57.6	66.1	56.1	40.3	35.0	53.2	60.6
25	IMHBG-2016-3	54.4	62.8	72.9	70.8	60.4	63.2	52.2	62.4	63.2	63.9	66.1	59.4	47.2	45.6	57.6	63.2
26	GK3204	55.0	61.1	75.7	70.8	59.7	65.3	50.0	62.5	63.9	50.7	65.0	58.9	39.6	39.4	52.9	62.1
27	HT 16607	62.2	56.7	73.6	68.1	58.3	66.0	46.7	61.6	63.9	59.0	63.9	67.8	43.8	48.9	57.9	62.6
28	X-6	60.6	61.1	75.7	70.1	56.9	66.7	45.6	62.4	63.9	60.4	66.1	68.9	46.5	33.9	56.6	63.6
29	CMH11-591	42.2	55.0	69.4	68.8	55.6	64.6	48.9	57.8	63.9	58.3	60.0	63.3	43.8	34.4	54.0	57.1
30	VNR 33051	60.6	62.8	78.5	71.5	56.3	64.6	46.7	63.0	63.9	61.8	63.9	63.3	60.4	40.6	59.0	63.1
31	CCH 167	53.9	63.3	64.6	70.1	60.4	64.6	45.6	60.4	63.9	62.5	63.9	63.3	36.8	43.3	55.6	61.5
32	KMH-24752	65.0	65.6	76.4	69.4	57.6	66.0	55.0	65.0	63.2	67.4	65.0	64.4	48.6	42.2	58.5	63.9
33	OMH 1462 (CAH 142)	58.9	62.8	77.8	70.1	56.9	64.6	48.3	62.8	63.9	57.6	63.3	67.2	54.2	33.3	56.6	62.2
34	KH-POLO Gold	56.1	61.7	73.6	65.3	55.6	66.0	51.7	61.4	63.9	59.0	62.8	64.4	41.0	32.8	54.0	61.1

Table No. 1 (Contd.)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
35	TMMH 838	41.1	62.8	68.8	65.3	53.5	62.5	46.1	57.1	63.9	55.6	56.1	60.0	31.9	32.2	50.0	56.5
36	ADV 9233	62.8	62.2	75.0	69.4	58.3	66.7	53.3	64.0	63.9	54.9	66.1	67.2	38.2	38.3	54.8	61.4
37	OMH 14-27 (CAH1511)	61.7	65.0	77.1	70.8	60.4	62.5	52.8	64.3	63.2	62.5	66.7	66.7	76.4	45.6	63.5	64.6
38	HM16305	57.2	62.8	75.7	71.5	58.3	66.0	52.8	63.5	63.9	62.5	66.1	62.8	50.7	38.3	57.4	62.8
39	CMH11-586	38.9	42.8	61.1	-	36.8	61.8	49.4	48.5	63.9	59.7	51.1	57.2	36.1	27.2	49.2	53.1
40	DKC 9178(IQ8623)	58.3	57.2	76.4	70.8	58.3	63.9	51.7	62.4	63.9	58.3	66.7	65.6	50.7	45.0	58.4	63.5
41	PM16104L	65.6	65.0	72.2	73.6	57.6	64.6	55.6	64.9	63.9	61.8	65.6	58.3	59.0	40.0	58.1	64.3
42	Star-9	60.6	60.6	73.6	70.8	56.3	63.2	52.2	62.5	63.9	57.6	65.0	62.2	59.7	33.9	57.1	61.2
43	PM16102L	66.1	63.9	78.5	72.9	56.3	65.3	55.6	65.5	63.9	63.2	65.0	61.1	35.4	43.9	55.4	63.7
44	DH-301	61.7	63.9	75.7	72.2	50.0	67.4	53.3	63.5	63.9	62.5	63.3	58.3	49.3	31.7	54.8	63.0
45	BH 414012	62.2	65.0	72.9	72.9	61.1	62.5	51.1	64.0	63.9	59.0	65.6	59.4	38.2	45.6	55.3	62.7
46	BLH 114	60.6	61.7	66.0	66.7	54.9	63.9	51.7	60.8	63.9	60.4	60.6	60.0	71.5	42.2	59.8	62.2
	CHECKS																
47	BIO 9682(C)	62.2	61.7	70.1	69.4	47.9	65.3	52.8	61.3	63.9	61.1	65.0	70.6	38.2	32.2	55.2	60.2
48	CMH 08-287(C)	65.0	63.9	68.8	72.2	61.1	64.6	54.4	64.3	63.2	61.8	62.2	68.3	42.4	39.4	56.2	62.8
49	CMH 08-282(C)	63.9	63.9	75.0	68.1	62.5	65.3	52.8	64.5	63.9	55.6	66.1	70.0	42.4	27.8	54.3	63.3
	Loc. Mean	**58.5**	**61.4**	**72.9**	**70.4**	**56.8**	**65.0**	**50.7**	**62.2**	**63.8**	**60.0**	**63.9**	**63.7**	**45.8**	**39.2**	**56.1**	**61.9**
	C.D. (5%)	10.83	5.90	10.00	9.08	5.47	4.02	6.11	3.97	1.76	8.09	5.54	6.36	7.98	11.30	6.09	2.61
	C.V. (%)	11.41	5.93	8.45	7.87	5.94	3.82	7.43	6.06	1.70	8.31	5.35	6.16	10.74	17.80	9.54	7.28
	F (Prob)	0.00	0.00	0.00	0.74	0.00	0.27	0.00	0.00	1.00	0.21	0.00	0.00	0.00	0.00	0.03	0.00

Table No. 1 (Contd.)

		DAYS TO 50% POLLEN SHED				NWPZ							NEPZ
						ZN 2							ZN 3
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	Mean
1	BLH 115	51.3	53.3	55.3	55.3	53.8	57.0	61.5	55.0	50.5	55.3	51.3	55.1
2	GH-1427	48.3	51.7	52.7	55.3	52.0	52.7	54.0	53.0	50.0	53.7	50.7	52.3
3	SYN617328	55.3	53.7	48.7	59.0	54.2	56.7	55.0	56.0	52.0	58.7	55.3	55.6
4	CMH11-583	52.0	52.7	50.7	53.7	52.3	57.0	60.0	53.0	51.0	57.0	53.0	55.2
5	CCH 9241	51.0	52.7	52.3	53.0	52.3	55.0	54.5	55.7	53.0	52.3	52.3	53.8
6	VaMH 13024	53.7	54.3	54.7	56.0	54.7	58.3	55.5	55.0	53.0	58.0	54.0	55.6
7	GK3202	51.0	52.0	48.7	55.7	51.8	54.3	60.0	53.0	50.5	53.7	51.3	53.8
8	OMH 14-55 (CAH1537)	53.0	51.7	56.3	53.3	53.6	55.7	55.0	56.0	52.0	57.7	51.0	54.6
9	SYN616734	53.0	51.7	54.3	56.3	53.8	54.7	57.0	55.0	53.5	56.7	55.0	55.3
10	PM16103L	53.0	52.0	52.3	55.7	53.3	53.7	52.5	52.0	50.0	54.7	51.7	52.4
11	VNR 3Y069	53.7	52.7	50.3	57.0	53.4	55.7	55.5	54.0	52.0	53.3	52.7	53.9
12	KH-16-149	49.7	51.3	53.3	52.3	51.7	54.3	54.0	53.0	49.0	54.7	49.3	52.4
13	JKMH 4152	56.0	56.0	54.7	57.7	56.1	59.3	55.0	55.0	55.0	61.7	56.7	57.1
14	JH 13278	52.7	52.3	55.3	53.7	53.5	54.3	52.5	52.0	53.0	50.7	53.7	52.7
15	MM9333	53.3	53.0	48.7	52.7	51.9	53.7	57.0	53.0	53.5	56.7	54.0	54.6
16	KMH-5022	49.0	51.3	52.0	56.0	52.1	53.3	55.0	53.0	52.0	52.7	52.0	53.0
17	MM 2030	51.3	48.0	50.7	55.7	51.4	55.0	56.5	53.3	51.0	50.7	53.3	53.3
18	OMH 14-16 (CAH1424)	51.0	53.0	48.7	51.7	51.1	53.0	54.5	54.0	49.5	54.7	50.7	52.7
19	C.P 888	52.0	52.0	53.3	56.3	53.4	54.3	59.0	54.0	52.5	58.7	53.3	55.3
20	DH-300	57.0	55.3	55.7	57.0	56.3	57.7	55.5	55.0	54.0	58.7	54.0	55.8
21	X-7	48.7	51.0	54.3	54.7	52.2	54.3	57.5	53.0	51.0	54.7	51.7	53.7
22	PM16101L	50.0	51.3	48.7	55.3	51.3	54.7	55.0	53.0	52.5	52.7	52.7	53.4
23	MM 2626	56.3	53.7	50.3	55.7	54.0	56.0	57.0	53.0	52.0	59.7	54.7	55.4
24	GH-1436	48.0	49.3	54.0	53.3	51.2	56.0	53.0	51.0	48.5	54.7	54.0	52.9
25	IMHBG-2016-3	53.7	54.7	55.3	57.7	55.3	56.0	61.5	53.3	54.0	56.0	53.7	55.8
26	GK3204	50.3	52.7	51.0	55.0	52.3	54.7	55.5	54.0	50.0	55.7	51.7	53.6
27	HT 16607	52.7	53.0	53.3	54.7	53.4	56.3	57.0	54.0	52.5	58.3	53.7	55.3
28	X-6	53.0	52.7	55.0	56.7	54.3	55.7	57.5	54.0	52.5	59.0	52.7	55.2
29	CMH11-591	53.3	53.3	55.0	56.7	54.6	57.0	59.5	53.0	53.5	57.3	53.7	55.7
30	VNR 33051	53.7	52.3	54.0	56.0	54.0	57.7	58.0	53.0	50.5	52.7	52.3	54.0
31	CCH 167	52.3	53.0	50.0	55.0	52.6	52.0	55.5	53.0	52.0	51.7	50.7	52.5
32	KMH-24752	50.0	50.7	49.7	55.3	51.4	53.7	56.5	53.0	50.5	53.7	52.3	53.3
33	OMH 1462 (CAH 142)	54.7	54.3	51.7	54.3	53.8	55.7	58.5	55.0	53.0	55.7	53.7	55.3
34	KH-POLO Gold	53.3	53.3	54.0	57.0	54.4	55.7	54.5	54.0	56.0	55.7	54.3	55.0

Table No. 1 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED				NWPZ ZN 2							NEPZ ZN 3
		LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	Mean
35	TMMH 838	52.7	55.3	51.0	57.3	54.1	55.0	57.5	55.0	54.0	57.3	54.7	55.6
36	ADV 9233	54.3	55.3	48.7	55.7	53.5	57.7	58.0	55.0	53.5	55.3	58.3	56.3
37	OMH 14-27 (CAH1511)	54.0	52.3	53.3	55.7	53.8	54.0	54.5	53.0	51.5	53.7	52.3	53.2
38	HM16305	50.3	52.3	55.0	54.0	52.9	54.7	57.5	53.0	51.5	57.7	53.3	54.6
39	CMH11-586	52.3	52.7	53.0	56.7	53.7	57.3	58.0	52.0	52.0	54.0	51.7	54.2
40	DKC 9178(IQ8623)	56.0	54.3	51.3	56.0	54.4	56.7	57.5	53.0	52.5	55.7	55.7	55.2
41	PM16104L	52.0	52.0	52.3	53.3	52.4	56.0	55.5	53.0	51.0	53.3	54.3	53.9
42	Star-9	53.7	53.3	54.0	57.3	54.6	56.0	55.5	53.0	53.0	55.3	52.7	54.3
43	PM16102L	53.3	50.7	55.3	54.0	53.3	57.3	55.5	55.0	52.5	55.3	53.7	54.9
44	DH-301	53.0	54.3	50.7	54.7	53.2	52.7	57.5	53.0	51.5	54.7	52.3	53.6
45	BH 414012	50.7	51.7	54.3	54.7	52.8	54.7	54.0	54.0	48.5	55.3	49.0	52.6
46	BLH 114	55.0	54.0	55.3	55.0	54.8	57.7	59.0	55.0	54.5	58.7	57.3	57.0
	CHECKS												
47	BIO 9682(C)	53.7	53.0	54.7	57.3	54.7	54.7	56.0	53.0	53.0	56.7	55.3	54.8
48	CMH 08-287(C)	54.0	53.7	57.0	55.7	55.1	56.7	55.0	55.0	53.0	56.3	53.3	54.9
49	CMH 08-282(C)	50.7	53.3	55.3	53.0	53.1	54.0	52.5	54.0	51.5	50.7	51.7	52.4
	Loc. Mean	**52.5**	**52.7**	**52.8**	**55.3**	**53.3**	**55.4**	**56.3**	**53.7**	**52.0**	**55.5**	**53.1**	**54.3**
	C.D. (5%)	1.62	0.83	2.73	2.16	2.34	3.62	2.17	1.60	1.95	2.32	2.20	1.71
	C.V. (%)	1.91	0.97	3.20	2.41	3.14	4.03	1.91	1.84	1.86	2.58	2.56	2.76
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00

Locations Rejected due to High C.V. : GODHRA 78.9%

Table No. 1 (Contd.)

		DAYS TO 50% POLLEN SHED							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	BLH 115	61.3	59.0	61.7	55.3	53.3	52.3	55.3	56.9	65.7	53.7	60.3	54.7	53.7	57.7	58.4	56.2
2	GH-1427	60.7	58.0	60.7	55.7	52.7	54.7	53.7	56.6	54.0	52.0	59.3	50.7	50.7	52.7	53.7	53.9
3	SYN617328	60.7	58.0	64.3	57.7	54.7	59.0	59.7	59.1	62.3	54.3	64.7	57.3	52.0	59.7	59.7	57.4
4	CMH11-583	60.0	57.0	62.0	54.3	53.3	55.7	57.7	57.1	55.3	55.0	61.3	52.7	50.0	59.0	56.7	55.6
5	CCH 9241	59.3	57.0	60.3	54.7	53.3	54.0	54.0	56.1	57.3	53.0	60.7	54.3	52.0	56.0	56.3	54.8
6	VaMH 13024	62.0	57.7	61.3	55.7	53.3	53.7	57.3	57.3	60.7	55.3	61.3	56.7	54.0	59.3	58.7	56.7
7	GK3202	58.7	61.3	60.0	53.7	54.0	53.3	55.0	56.6	64.0	54.3	59.0	50.7	52.7	54.0	56.4	54.9
8	OMH 14-55 (CAH1537)	60.7	58.7	60.7	53.7	52.7	52.7	55.3	56.3	53.7	53.3	60.3	50.7	50.7	53.0	54.2	54.9
9	SYN616734	61.0	57.3	60.7	54.3	53.7	55.0	56.0	56.9	58.7	54.0	61.0	52.7	51.3	56.7	56.6	55.8
10	PM16103L	58.7	56.7	58.7	52.3	48.0	50.0	53.3	54.0	52.7	54.3	58.0	49.7	50.7	51.7	53.3	53.3
11	VNR 3Y069	60.0	56.3	62.3	53.7	53.7	55.3	56.3	56.8	56.7	55.3	62.0	52.7	53.7	58.0	56.9	55.4
12	KH-16-149	57.7	55.7	60.0	50.0	49.3	51.0	54.0	54.0	58.7	53.7	60.3	52.0	52.3	53.7	55.7	53.5
13	JKMH 4152	61.7	62.7	63.3	55.7	56.3	58.0	59.3	59.6	56.3	55.0	64.0	57.7	230.7	61.7	58.9	58.1
14	JH 13278	59.0	56.3	60.0	54.7	54.0	52.3	54.0	55.8	53.7	54.3	61.0	52.7	50.7	55.3	55.4	54.4
15	MM9333	59.3	58.3	61.3	56.3	53.3	54.3	54.3	56.8	63.7	53.0	60.7	54.7	52.0	59.0	58.2	55.6
16	KMH-5022	61.3	56.7	61.0	53.0	52.3	53.0	53.7	55.9	61.0	54.0	61.3	53.0	50.3	55.3	56.9	54.6
17	MM 2030	61.3	61.0	60.7	55.3	52.3	53.3	54.3	56.9	53.7	54.0	60.7	52.7	55.0	56.7	55.5	54.6
18	OMH 14-16 (CAH1424)	59.7	55.3	59.7	53.3	52.3	52.0	53.7	55.1	53.7	53.7	57.7	50.7	49.0	53.0	53.7	53.4
19	C.P 888	61.7	60.0	62.3	55.7	54.3	57.0	57.0	58.3	60.7	54.0	62.0	52.3	52.3	58.7	57.5	56.4
20	DH-300	61.3	57.0	62.0	56.7	56.0	56.7	58.3	58.3	60.7	54.3	61.3	54.7	52.0	58.3	57.9	57.1
21	X-7	58.7	57.0	60.7	52.3	50.3	54.3	54.7	55.4	63.0	53.0	60.7	51.7	52.7	55.3	56.7	54.7
22	PM16101L	58.3	55.3	60.0	53.0	53.0	54.7	55.0	55.6	59.7	53.3	59.7	50.7	50.7	54.0	55.5	54.2
23	MM 2626	61.0	60.0	61.7	54.0	54.0	53.3	57.0	57.3	61.7	54.7	61.3	54.7	52.0	57.7	58.0	56.3
24	GH-1436	54.7	55.7	60.0	50.7	48.3	47.7	53.7	53.0	52.3	55.0	58.0	49.7	49.7	50.0	53.0	52.6
25	IMHBG-2016-3	61.7	60.3	61.0	55.3	52.0	53.3	55.0	57.0	56.3	54.0	60.7	55.7	52.0	57.3	56.8	56.3
26	GK3204	60.0	58.0	61.3	53.0	53.0	54.0	55.7	56.4	59.7	54.7	58.3	54.0	51.7	55.0	56.3	54.9
27	HT 16607	61.7	60.0	61.7	56.7	53.7	53.3	58.0	57.9	61.0	55.0	61.7	54.7	52.0	57.7	58.0	56.4
28	X-6	60.7	61.0	61.7	54.7	52.7	53.3	56.3	57.2	65.3	54.7	60.7	55.7	55.0	57.3	58.7	56.5
29	CMH11-591	62.7	61.0	61.7	56.0	52.7	55.7	56.7	58.0	64.7	53.3	63.7	54.7	51.3	58.3	58.9	57.0
30	VNR 33051	60.7	56.3	61.7	53.3	54.0	54.7	56.7	56.8	65.7	53.7	61.7	53.7	52.3	59.3	58.8	56.0
31	CCH 167	57.7	61.0	60.0	52.7	49.7	52.0	52.7	55.1	52.7	53.7	58.7	54.0	49.0	54.0	54.6	53.8
32	KMH-24752	58.7	55.3	60.0	52.0	52.0	52.3	54.3	55.0	60.3	53.3	58.3	50.7	50.3	55.0	55.5	54.0
33	OMH 1462 (CAH 142)	61.0	56.3	62.0	53.7	55.7	56.7	58.0	57.6	61.3	53.3	62.0	56.0	53.3	57.0	57.9	56.3
34	KH-POLO Gold	60.7	56.7	61.0	53.3	53.7	53.0	55.7	56.3	58.7	54.0	61.3	51.7	53.3	56.0	56.3	55.6

Table No. 1 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED							PZ ZN 4 Mean							CWZ ZN 5 Mean	OV'L Mean
		HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU		UDAI	BANS	CHHI	AMBI	GODH	JHAB		
35	TMMH 838	60.3	59.0	63.3	57.0	54.7	54.7	58.7	58.2	57.0	54.7	63.0	55.3	54.0	58.3	57.7	56.6
36	ADV 9233	61.7	60.3	63.3	57.0	55.7	57.0	56.7	58.8	57.7	55.3	63.0	56.7	52.3	58.3	58.2	57.0
37	OMH 14-27 (CAH1511)	59.7	57.3	60.3	54.3	53.3	54.3	55.0	56.3	58.7	54.0	60.7	52.7	50.7	55.0	56.2	55.0
38	HM16305	59.7	58.3	60.3	56.3	53.3	52.3	54.3	56.4	53.7	55.3	60.7	52.7	52.0	56.3	55.7	55.1
39	CMH11-586	61.7	61.0	61.7	-	53.7	53.3	56.0	57.9	61.7	55.0	61.3	53.7	52.7	58.0	57.9	56.0
40	DKC 9178(IQ8623)	61.0	58.3	62.0	55.3	53.7	52.7	56.0	57.0	59.3	54.0	60.3	55.7	54.0	57.7	57.4	56.1
41	PM16104L	59.3	57.3	60.0	55.0	51.7	53.3	55.0	56.0	54.7	52.3	61.0	53.7	51.7	56.7	55.7	54.7
42	Star-9	60.7	57.3	62.7	52.7	54.3	54.0	57.3	57.0	60.7	53.0	60.7	52.7	53.0	55.7	56.5	55.7
43	PM16102L	59.3	58.7	60.7	53.3	53.3	54.0	55.0	56.3	56.7	55.0	61.0	52.7	50.7	55.3	56.1	55.3
44	DH-301	57.0	55.3	60.3	55.7	53.7	52.7	53.0	55.4	53.7	54.0	58.3	49.7	51.3	54.3	54.0	54.2
45	BH 414012	58.0	56.3	59.3	51.7	52.0	52.0	54.3	54.8	60.7	53.3	60.7	54.0	50.0	54.3	56.6	54.3
46	BLH 114	61.0	58.7	63.7	55.3	55.7	56.7	58.0	58.4	60.7	55.0	63.0	56.7	50.3	59.0	58.9	57.5
	CHECKS																
47	BIO 9682(C)	61.0	58.7	61.3	54.0	53.0	53.0	54.7	56.5	53.7	56.0	61.3	51.7	52.7	56.7	55.9	55.6
48	CMH 08-287(C)	60.3	57.7	61.7	55.0	53.3	54.3	58.0	57.2	59.7	55.7	61.3	54.7	52.0	58.0	57.9	56.3
49	CMH 08-282(C)	57.7	59.3	59.7	52.3	53.3	52.7	53.3	55.5	53.3	53.7	59.7	52.7	49.3	55.7	55.0	54.1
	Loc. Mean	**60.0**	**58.1**	**61.2**	**54.3**	**53.1**	**53.9**	**55.7**	**56.6**	**58.5**	**54.1**	**60.8**	**53.4**	**55.5**	**56.4**	**56.6**	**55.4**
	C.D. (5%)	2.21	1.87	1.87	1.69	0.84	1.28	2.28	1.22	1.15	2.23	1.08	1.36	70.92	1.68	2.36	0.92
	C.V. (%)	2.28	1.99	1.88	1.90	0.98	1.46	2.53	2.04	1.21	2.54	1.10	1.57	78.89	1.83	3.34	2.80
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.45	0.00	0.00	0.00

Table No. 1 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% SILKING				NWPZ ZN 2 Mean							NEPZ ZN 3 Mean
		LUDH	KARN	KANP	PANT		DHOL	RANC	BHUB	VARA	BAHR	SABO	
1	BLH 115	52.3	55.3	59.3	58.3	56.3	59.7	66.5	58.7	56.0	57.3	56.0	59.0
2	GH-1427	50.7	53.7	55.7	58.7	54.7	54.7	58.5	57.0	54.0	55.7	54.3	55.7
3	SYN617328	55.7	55.7	51.7	62.0	56.3	59.3	60.0	59.3	57.0	61.3	57.0	59.0
4	CMH11-583	53.0	54.7	53.7	57.3	54.7	59.3	63.5	56.0	55.5	59.0	57.0	58.4
5	CCH 9241	51.7	53.7	55.3	56.0	54.2	57.0	59.0	59.0	56.5	54.3	55.7	56.9
6	VaMH 13024	54.3	57.3	57.7	59.0	57.1	60.3	59.0	58.7	57.0	59.7	56.0	58.4
7	GK3202	52.7	54.0	52.0	58.7	54.3	58.7	63.5	57.0	56.0	55.7	55.3	57.7
8	OMH 14-55 (CAH1537)	54.3	53.7	59.7	56.0	55.9	57.7	58.0	60.0	58.0	59.7	57.0	58.4
9	SYN616734	54.0	54.7	57.3	59.3	56.3	57.3	60.0	59.0	57.0	58.7	57.7	58.3
10	PM16103L	54.0	54.0	55.7	58.7	55.6	56.3	56.5	56.0	53.5	56.7	56.0	55.8
11	VNR 3Y069	55.3	54.7	53.7	60.0	55.9	58.0	59.5	57.3	56.5	55.3	57.7	57.4
12	KH-16-149	50.7	53.3	56.0	55.7	53.9	56.7	58.0	56.0	52.5	58.7	54.3	56.0
13	JKMH 4152	57.0	58.0	58.7	60.7	58.6	61.7	59.5	59.0	60.5	63.7	60.0	60.7
14	JH 13278	53.7	54.3	58.3	57.0	55.8	56.7	57.0	55.3	56.0	52.7	55.7	55.6
15	MM9333	54.7	55.0	53.7	56.3	54.9	56.0	60.5	57.0	57.0	58.7	56.7	57.6
16	KMH-5022	51.3	54.3	55.3	59.3	55.1	56.0	59.0	56.0	57.0	54.7	56.0	56.4
17	MM 2030	52.0	50.0	53.7	58.7	53.6	57.7	59.5	57.0	56.0	52.7	57.3	56.7
18	OMH 14-16 (CAH1424)	53.0	55.0	51.7	55.0	53.7	56.0	58.0	58.0	53.5	56.7	54.7	56.1
19	C.P 888	53.3	54.0	55.3	59.7	55.6	57.3	63.5	57.0	56.5	60.7	58.3	58.9
20	DH-300	59.3	57.3	58.7	60.0	58.8	60.0	59.5	59.0	60.5	60.7	60.3	60.0
21	X-7	50.7	53.0	58.0	57.7	54.8	57.0	62.0	56.3	55.5	56.7	55.7	57.2
22	PM16101L	51.0	53.3	52.3	58.3	53.8	57.0	58.0	57.0	56.0	54.7	57.3	56.7
23	MM 2626	57.7	55.7	53.7	59.0	56.5	59.3	61.0	56.7	57.0	61.7	59.0	59.1
24	GH-1436	50.0	51.3	57.7	56.3	53.8	58.0	58.0	54.7	53.0	56.7	58.7	56.5
25	IMHBG-2016-3	54.3	56.7	58.3	60.3	57.4	58.0	65.5	57.0	57.5	58.0	56.7	58.8
26	GK3204	51.7	55.7	55.3	57.7	55.1	57.3	59.5	57.7	55.0	57.7	56.0	57.2
27	HT 16607	53.7	55.0	56.3	58.0	55.8	58.7	59.0	57.7	56.5	60.3	56.0	58.0
28	X-6	54.3	55.7	57.7	59.3	56.8	58.0	61.5	57.7	56.5	61.0	56.3	58.5
29	CMH11-591	54.3	55.3	59.0	59.7	57.1	59.3	64.0	56.3	58.0	59.0	56.7	58.9
30	VNR 33051	54.7	54.3	57.3	59.0	56.3	60.3	62.5	56.7	55.0	54.7	56.3	57.6
31	CCH 167	53.0	55.0	53.0	58.0	54.8	54.3	59.5	56.3	54.5	53.7	54.3	55.4
32	KMH-24752	51.0	52.7	52.7	58.3	53.7	56.0	61.0	56.0	53.0	55.7	55.0	56.1
33	OMH 1462 (CAH 142)	56.3	56.3	54.7	57.3	56.2	57.7	61.5	59.0	58.5	57.7	59.0	58.9
34	KH-POLO Gold	54.7	55.3	57.0	60.0	56.8	58.0	58.0	58.0	61.5	57.7	58.0	58.5

Table No. 1 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% SILKING				NWPZ ZN 2 Mean							NEPZ ZN 3 Mean
		LUDH	KARN	KANP	PANT		DHOL	RANC	BHUB	VARA	BAHR	SABO	
35	TMMH 838	54.0	57.3	54.3	60.0	56.4	57.7	62.0	58.7	60.0	59.3	60.3	59.7
36	ADV 9233	56.0	57.3	52.0	58.7	56.0	59.7	61.0	59.0	57.0	57.3	61.3	59.2
37	OMH 14-27 (CAH1511)	54.3	55.3	56.7	58.7	56.3	57.3	58.5	56.7	55.0	55.7	55.0	56.4
38	HM16305	51.3	54.3	58.0	57.7	55.3	57.3	60.5	57.0	54.5	59.7	56.3	57.6
39	CMH11-586	53.3	54.7	56.3	59.7	56.0	59.7	62.0	55.7	55.0	56.0	55.0	57.2
40	DKC 9178(IQ8623)	57.7	56.3	54.3	59.0	56.8	59.3	61.5	56.0	56.5	57.7	59.0	58.3
41	PM16104L	52.7	54.0	55.3	56.3	54.6	58.3	59.0	56.0	54.5	55.3	57.0	56.7
42	Star-9	55.0	55.3	57.7	60.3	57.1	58.3	58.5	56.3	57.5	57.3	56.7	57.4
43	PM16102L	54.0	52.7	58.7	57.0	55.6	59.7	59.0	59.0	58.0	57.3	58.7	58.6
44	DH-301	53.3	56.3	55.0	57.3	55.5	55.7	60.5	57.0	54.5	56.7	55.3	56.6
45	BH 414012	52.0	53.7	58.0	57.3	55.3	58.3	58.0	57.7	53.5	57.3	55.7	56.8
46	BLH 114	56.0	56.0	59.0	58.0	57.3	60.0	63.0	59.0	58.5	60.7	61.3	60.4
	CHECKS												
47	BIO 9682(C)	54.7	55.0	58.0	60.3	57.0	57.0	59.0	57.0	56.0	58.7	59.0	57.8
48	CMH 08-287(C)	54.7	57.7	60.3	59.0	57.9	59.3	58.5	58.3	57.0	58.3	56.7	58.0
49	CMH 08-282(C)	51.7	55.3	59.0	56.3	55.6	56.3	57.0	57.3	55.0	52.7	54.0	55.4
	Loc. Mean	**53.7**	**54.9**	**56.1**	**58.4**	**55.8**	**57.9**	**60.2**	**57.3**	**56.3**	**57.5**	**56.9**	**57.7**
	C.D. (5%)	1.64	0.83	2.67	2.12	2.31	3.70	2.51	1.80	2.22	2.12	2.15	1.75
	C.V. (%)	1.88	0.93	2.94	2.25	2.97	3.94	2.08	1.93	1.96	2.27	2.33	2.66
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 1 (Contd.)

		DAYS TO 50% SILKING							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	BLH 115	63.3	61.7	61.7	58.0	57.0	54.7	57.0	59.0	67.7	56.7	61.0	57.7	55.7	61.3	60.0	58.8
2	GH-1427	62.7	59.7	61.0	57.3	55.0	56.7	55.0	58.2	56.0	55.0	60.0	53.3	52.7	56.0	55.5	56.2
3	SYN617328	62.7	59.7	64.3	61.0	57.7	61.0	61.0	61.0	64.3	57.3	65.0	59.7	54.0	62.3	60.4	59.5
4	CMH11-583	62.0	59.7	62.7	58.3	56.7	57.7	59.0	59.4	56.7	58.0	62.3	55.3	52.0	62.3	57.8	57.9
5	CCH 9241	61.0	59.7	61.0	57.0	55.7	56.0	55.0	57.9	59.3	56.0	61.0	57.3	54.0	58.3	57.7	56.9
6	VaMH 13024	63.3	59.0	62.3	57.3	56.0	55.7	58.7	58.9	62.7	58.3	61.3	59.3	56.0	62.3	60.0	58.8
7	GK3202	61.0	63.3	60.3	56.7	57.3	55.0	56.3	58.6	65.7	57.3	60.0	53.3	54.7	57.7	58.1	57.5
8	OMH 14-55 (CAH1537)	62.7	60.7	61.0	59.0	55.3	56.0	56.3	58.7	55.7	56.3	61.0	53.3	52.7	56.3	55.9	57.4
9	SYN616734	63.0	59.0	61.3	58.0	56.7	57.3	57.3	59.0	60.3	57.0	61.7	55.7	53.3	59.7	57.9	58.1
10	PM16103L	60.3	58.7	59.3	55.7	51.3	53.0	54.3	56.1	54.7	57.3	59.0	52.0	52.7	54.3	55.0	55.7
11	VNR 3Y069	62.3	59.0	62.7	57.0	56.7	57.3	57.7	59.0	58.7	58.3	62.3	55.3	55.7	61.7	58.7	57.9
12	KH-16-149	59.7	57.7	61.0	55.0	52.3	53.7	55.3	56.4	60.3	56.7	61.0	55.0	54.3	57.0	57.4	56.1
13	JKMH 4152	63.7	64.3	64.0	58.7	59.3	60.0	60.3	61.5	58.3	58.0	65.0	60.3	56.0	65.0	60.4	60.5
14	JH 13278	59.3	59.0	60.0	56.3	57.0	54.3	55.0	57.3	55.3	57.3	61.0	55.7	52.7	58.0	56.7	56.4
15	MM9333	61.7	61.0	61.7	59.0	56.3	55.7	55.3	58.7	65.3	56.0	61.3	57.0	54.0	62.0	59.3	57.9
16	KMH-5022	63.3	58.7	62.0	56.3	55.0	55.7	54.7	58.0	63.0	57.0	62.3	55.3	52.0	58.7	58.1	57.1
17	MM 2030	63.3	63.0	60.7	58.3	55.3	55.7	55.3	58.8	55.7	57.0	61.0	55.3	57.0	59.7	57.6	57.0
18	OMH 14-16 (CAH1424)	61.7	56.7	59.7	57.3	55.3	54.3	55.0	57.1	55.7	56.7	58.7	53.3	50.7	56.3	55.2	55.8
19	C.P 888	63.7	62.3	63.7	59.7	58.3	59.3	58.3	60.8	62.7	57.0	63.0	55.0	54.3	62.0	59.0	58.9
20	DH-300	63.3	59.0	62.3	58.7	59.0	58.7	59.3	60.0	62.7	57.3	62.3	57.3	54.0	61.7	59.2	59.6
21	X-7	60.7	58.7	61.0	55.3	53.0	56.0	55.7	57.2	65.0	56.0	61.3	54.3	54.7	57.3	58.1	57.0
22	PM16101L	60.3	57.3	60.7	56.3	55.3	56.7	56.0	57.5	60.7	56.3	60.7	53.3	52.7	56.3	56.7	56.4
23	MM 2626	63.0	62.0	62.3	58.0	56.3	56.7	58.3	59.5	63.3	57.7	62.3	57.0	54.0	61.0	59.2	58.8
24	GH-1436	56.7	57.7	60.3	55.0	51.3	52.0	54.7	55.4	54.3	58.0	56.0	52.3	51.3	53.0	54.2	55.1
25	IMHBG-2016-3	63.7	63.0	61.3	57.3	55.0	55.3	56.0	58.8	58.3	57.0	60.7	58.7	54.0	60.3	58.2	58.4
26	GK3204	62.0	59.7	62.3	56.7	56.0	56.3	56.7	58.5	61.7	57.7	59.3	56.3	53.7	58.0	57.8	57.4
27	HT 16607	63.7	62.0	62.3	59.3	57.3	55.7	59.0	59.9	62.7	58.0	62.3	57.3	54.0	60.0	59.1	58.5
28	X-6	62.7	63.3	62.7	57.3	55.7	55.3	57.3	59.2	67.0	57.7	61.7	58.7	57.0	60.7	60.4	58.9
29	CMH11-591	64.7	63.3	62.7	58.0	55.7	57.7	57.7	60.0	66.7	56.3	64.7	57.7	53.3	61.3	60.0	59.2
30	VNR 33051	62.7	58.7	62.0	57.3	57.7	56.7	57.7	59.0	67.7	56.7	62.3	56.0	54.3	62.3	59.9	58.4
31	CCH 167	59.7	63.0	60.0	54.7	52.7	54.3	54.0	56.9	54.7	56.7	59.0	56.7	50.7	56.7	55.7	55.8
32	KMH-24752	60.7	56.3	60.7	55.0	55.0	55.0	55.3	56.9	62.3	56.3	59.3	53.7	52.0	58.0	56.9	56.1
33	OMH 1462 (CAH 142)	63.0	58.3	63.3	58.7	58.7	58.7	59.0	60.0	63.3	56.3	63.0	58.0	55.3	60.3	59.4	58.9
34	KH-POLO Gold	62.7	58.7	61.7	58.0	56.7	55.0	56.7	58.5	60.3	57.0	63.0	54.7	55.3	59.0	58.2	58.1

Table No. 1 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% SILKING HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
35	TMMH 838	62.3	61.0	65.0	61.0	57.7	57.0	59.7	60.5	59.0	57.7	64.0	58.3	56.0	61.7	59.4	59.3
36	ADV 9233	63.7	62.0	64.0	61.0	58.3	59.0	57.7	60.8	58.7	58.3	64.0	59.7	54.3	61.7	59.4	59.2
37	OMH 14-27 (CAH1511)	61.7	58.7	61.0	56.7	56.3	56.3	56.0	58.1	60.7	57.0	61.3	55.7	52.7	57.0	57.4	57.1
38	HM16305	61.3	60.0	61.3	59.0	55.3	54.3	55.3	58.1	55.7	58.3	61.7	55.3	54.0	59.3	57.4	57.3
39	CMH11-586	63.7	63.0	62.3	-	56.7	55.3	57.0	59.7	63.7	58.0	62.3	56.3	54.7	61.0	59.3	58.2
40	DKC 9178(IQ8623)	63.0	60.7	62.3	58.7	57.3	55.0	57.3	59.2	60.7	57.0	61.3	58.7	56.0	60.0	58.9	58.5
41	PM16104L	61.3	58.7	60.0	56.7	54.3	55.3	56.0	57.5	56.7	55.3	61.7	56.7	53.7	59.3	57.2	56.7
42	Star-9	62.3	59.0	63.0	56.0	57.3	56.0	58.3	58.9	62.7	56.0	61.3	54.7	55.3	58.3	58.1	58.0
43	PM16102L	61.3	61.0	61.0	56.0	56.3	56.3	56.0	58.3	58.3	58.0	62.0	55.7	52.7	59.0	57.6	57.7
44	DH-301	58.3	57.0	60.3	57.0	56.7	55.0	54.0	56.9	55.7	57.0	59.0	52.7	53.3	57.3	55.8	56.3
45	BH 414012	60.0	58.7	60.0	55.7	55.0	55.0	55.3	57.1	62.7	56.3	61.3	56.7	52.0	57.7	57.8	56.9
46	BLH 114	63.0	61.0	64.0	58.0	59.0	58.7	59.0	60.4	62.7	58.0	63.0	59.0	52.3	62.0	59.5	59.6
	CHECKS																
47	BIO 9682(C)	63.0	61.3	62.0	56.0	55.7	55.0	55.7	58.4	54.7	59.0	61.3	54.3	54.7	59.3	57.2	57.7
48	CMH 08-287(C)	62.3	60.3	62.0	58.3	55.7	56.3	59.0	59.1	61.7	58.7	62.0	57.7	54.0	60.3	59.1	58.6
49	CMH 08-282(C)	59.7	61.3	60.0	55.0	56.7	55.0	54.3	57.4	55.3	56.7	60.3	55.3	51.3	58.0	56.2	56.2
	Loc. Mean	**62.0**	**60.1**	**61.7**	**57.4**	**56.1**	**56.1**	**56.8**	**58.6**	**60.4**	**57.1**	**61.5**	**56.1**	**53.8**	**59.4**	**58.0**	**57.7**
	C.D. (5%)	2.27	2.09	1.85	2.11	0.97	1.22	2.27	1.20	1.13	2.23	1.79	1.59	2.16	1.94	2.08	0.90
	C.V. (%)	2.26	2.15	1.85	2.24	1.07	1.34	2.46	1.94	1.16	2.41	1.80	1.75	2.48	2.02	3.15	2.69
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 1 (Contd.)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK				NWPZ ZN 2							NEPZ ZN 3
		LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	Mean
1	BLH 115	88.7	85.0	113.3	121.7	102.2	90.7	102.0	97.0	89.5	90.7	91.7	93.6
2	GH-1427	84.3	88.7	112.7	119.7	101.3	85.0	98.0	95.0	85.0	93.3	88.3	90.8
3	SYN617328	88.3	91.7	114.7	124.0	104.7	90.0	100.0	96.7	91.5	100.7	94.3	95.5
4	CMH11-583	85.0	86.0	114.3	117.0	100.6	89.7	101.0	93.0	84.0	96.7	88.3	92.1
5	CCH 9241	86.3	84.7	115.3	120.7	101.8	83.3	99.0	94.0	84.0	90.7	92.0	90.5
6	VaMH 13024	84.7	89.0	113.7	118.3	101.4	91.3	98.5	95.0	85.5	95.7	90.3	92.7
7	GK3202	87.7	87.0	114.7	120.0	102.3	86.0	100.5	94.0	87.0	93.3	91.3	92.0
8	OMH 14-55 (CAH1537)	86.3	84.3	116.3	115.7	100.7	88.7	97.0	96.0	87.0	91.3	89.0	91.5
9	SYN616734	86.7	83.3	115.3	119.7	101.3	85.3	99.0	95.0	87.0	90.7	87.7	90.8
10	PM16103L	86.7	86.0	117.0	119.7	102.3	88.0	95.0	94.0	85.5	91.3	90.3	90.7
11	VNR 3Y069	88.3	85.3	117.0	119.7	102.6	89.3	100.0	94.0	87.0	92.7	90.0	92.2
12	KH-16-149	82.0	83.7	116.3	110.7	98.2	83.0	99.5	96.0	82.0	91.3	85.0	89.5
13	JKMH 4152	91.0	87.3	117.3	118.3	103.5	92.3	101.5	95.0	91.5	100.3	97.0	96.3
14	JH 13278	84.7	85.0	116.3	116.3	100.6	87.0	95.0	94.0	84.0	91.3	88.3	89.9
15	MM9333	87.3	84.0	115.0	121.7	102.0	89.7	99.0	95.0	89.0	94.7	95.7	93.8
16	KMH-5022	85.7	88.0	116.7	119.0	102.3	85.3	99.0	95.0	90.0	96.7	90.0	92.7
17	MM 2030	86.0	82.3	116.0	118.3	100.7	86.0	98.5	95.0	84.0	90.7	91.7	91.0
18	OMH 14-16 (CAH1424)	88.3	85.0	112.3	120.3	101.5	84.0	96.5	94.0	83.0	92.7	91.7	90.3
19	C.P 888	85.0	84.0	113.3	119.7	100.5	87.0	100.5	94.0	91.0	95.3	91.0	93.1
20	DH-300	91.0	88.7	114.0	120.7	103.6	91.0	99.0	95.0	93.5	93.7	92.0	94.0
21	X-7	83.7	88.3	109.3	121.3	100.7	85.3	98.5	93.0	89.0	87.7	89.7	90.5
22	PM16101L	84.3	85.3	112.0	114.7	99.1	86.3	97.5	94.0	90.0	92.7	94.3	92.5
23	MM 2626	92.0	87.3	115.0	123.3	104.4	93.3	99.5	93.0	87.5	99.3	94.0	94.4
24	GH-1436	86.3	86.3	113.7	118.3	101.2	87.0	95.5	96.0	86.0	90.7	91.3	91.1
25	IMHBG-2016-3	85.7	89.0	111.0	119.0	101.2	90.3	101.0	93.0	87.0	94.7	87.7	92.3
26	GK3204	86.7	91.0	113.0	121.3	103.0	87.3	99.5	96.0	83.5	97.3	91.3	92.5
27	HT 16607	86.0	86.7	113.7	120.3	101.7	92.3	98.5	95.0	88.5	98.3	92.0	94.1
28	X-6	84.7	86.0	117.0	120.3	102.0	91.7	100.0	95.0	87.0	97.7	90.0	93.6
29	CMH11-591	85.0	87.7	115.3	119.7	101.9	92.0	101.0	93.0	86.5	99.7	89.0	93.5
30	VNR 33051	84.7	85.3	112.0	120.3	100.6	86.7	100.0	94.0	82.5	95.3	89.7	91.4
31	CCH 167	86.3	86.3	110.3	122.0	101.3	87.0	99.0	96.0	88.5	94.7	93.0	93.0
32	KMH-24752	85.7	85.0	113.3	121.3	101.3	84.3	99.5	93.0	84.0	89.3	91.7	90.3
33	OMH 1462 (CAH 142)	88.0	88.3	114.7	119.3	102.6	90.0	100.0	95.0	88.0	91.3	91.7	92.7
34	KH-POLO Gold	90.0	86.0	114.3	122.7	103.3	90.0	97.5	96.0	92.0	93.3	91.7	93.4

Table No. 1 (Contd.)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	NEPZ ZN 3 Mean
35	TMMH 838	90.0	91.7	115.0	122.7	104.8	94.0	100.0	97.0	92.5	92.7	97.3	95.6
36	ADV 9233	89.7	89.3	116.0	122.3	104.3	90.7	99.5	95.0	91.0	94.7	95.0	94.3
37	OMH 14-27 (CAH1511)	86.0	87.3	116.7	118.3	102.1	85.0	99.5	95.0	83.0	90.7	86.7	90.0
38	HM16305	84.0	86.3	112.7	121.7	101.2	89.3	99.0	96.0	87.0	94.7	91.7	92.9
39	CMH11-586	85.3	86.7	113.7	119.3	101.3	90.0	99.5	94.0	85.0	93.3	86.7	91.4
40	DKC 9178(IQ8623)	89.7	88.3	112.3	120.7	102.8	91.7	99.0	95.0	90.0	99.3	94.7	94.9
41	PM16104L	85.7	86.3	115.3	120.3	101.9	92.0	99.0	96.0	86.0	94.7	92.7	93.4
42	Star-9	87.7	86.0	112.0	121.7	101.8	86.0	98.0	94.0	87.0	92.3	89.0	91.1
43	PM16102L	86.3	86.0	112.0	121.0	101.3	93.7	98.0	96.0	91.0	92.7	93.3	94.1
44	DH-301	85.7	83.7	116.7	117.0	100.8	82.7	99.0	95.0	85.0	87.3	88.0	89.5
45	BH 414012	84.0	86.3	114.3	115.7	100.1	87.0	97.5	95.0	84.0	87.3	88.3	89.9
46	BLH 114	86.7	88.7	115.3	122.3	103.3	92.7	100.5	94.0	88.5	89.7	95.7	93.5
	CHECKS												
47	BIO 9682(C)	89.3	86.0	112.7	123.3	102.8	90.3	98.0	96.0	88.5	93.3	96.0	93.7
48	CMH 08-287(C)	84.7	86.0	108.3	123.3	100.6	89.0	97.5	96.0	86.5	93.3	88.3	91.8
49	CMH 08-282(C)	82.7	87.0	106.3	116.3	98.1	89.0	99.5	94.0	82.5	89.7	84.0	89.8
	Loc. Mean	**86.5**	**86.6**	**114.0**	**119.8**	**101.7**	**88.6**	**99.0**	**94.8**	**87.1**	**93.5**	**91.0**	**92.3**
	C.D. (5%)	3.20	1.03	2.17	3.62	2.89	4.43	2.42	1.65	4.53	2.34	2.86	2.46
	C.V. (%)	2.28	0.73	1.17	1.86	2.03	3.09	1.22	1.08	2.58	1.55	1.94	2.34
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 1 (Contd.)

		DAYS TO 75% DRY HUSK							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	BLH 115	105.3	102.3	107.0	102.0	97.0	95.7	94.7	100.6	95.7	87.3	98.3	90.7	82.3	88.3	90.4	96.4
2	GH-1427	105.3	99.3	105.7	94.0	96.0	99.3	93.0	99.0	85.7	86.0	98.0	90.3	82.3	81.7	87.3	94.2
3	SYN617328	104.3	100.0	110.3	99.3	97.7	102.0	103.0	102.4	96.3	90.3	102.7	92.7	81.0	89.0	92.0	98.3
4	CMH11-583	103.0	100.3	102.3	95.0	96.7	99.0	94.3	98.7	87.7	89.3	99.3	92.7	77.7	89.3	89.3	94.9
5	CCH 9241	102.7	100.3	101.7	91.3	96.0	97.0	92.7	97.4	90.3	88.0	96.3	89.7	82.0	84.7	88.5	94.0
6	VaMH 13024	103.7	100.3	105.0	95.7	96.7	96.7	93.7	98.8	93.7	90.0	98.7	92.0	82.3	88.0	90.8	95.6
7	GK3202	103.0	103.3	107.0	97.3	97.7	96.7	97.0	100.3	96.0	88.3	97.7	93.3	81.0	87.0	90.6	95.9
8	OMH 14-55 (CAH1537)	104.0	101.3	101.0	93.0	96.3	97.0	91.0	97.7	88.0	86.7	96.7	89.3	79.3	84.7	87.4	93.9
9	SYN616734	101.7	99.7	101.0	93.3	96.7	98.7	93.3	97.8	90.0	89.0	97.7	90.7	80.7	86.0	89.0	94.3
10	PM16103L	98.7	99.7	102.3	93.7	93.3	94.7	91.7	96.3	87.7	88.7	96.3	89.7	82.0	84.7	88.2	93.8
11	VNR 3Y069	100.7	99.7	105.7	94.7	97.3	100.3	95.7	99.1	89.3	90.7	97.7	91.3	82.0	87.7	89.8	95.5
12	KH-16-149	98.0	98.7	101.0	91.3	94.3	96.0	93.0	96.0	89.7	89.7	95.3	90.3	81.0	82.7	88.1	92.6
13	JKMH 4152	103.7	104.0	112.7	102.7	99.7	101.3	100.3	103.5	89.3	90.3	103.0	94.0	83.7	99.7	93.3	99.0
14	JH 13278	102.0	99.7	103.7	96.0	97.3	96.3	92.7	98.2	85.3	88.3	98.3	90.3	79.7	85.3	87.9	93.8
15	MM9333	100.7	101.7	112.0	101.3	97.0	97.3	98.3	101.2	93.3	87.7	98.7	91.0	80.7	87.3	89.8	96.4
16	KMH-5022	105.0	100.0	107.0	95.7	95.7	96.3	95.0	99.2	93.3	89.3	102.3	91.7	78.7	86.0	90.2	95.7
17	MM 2030	102.3	103.0	104.3	94.3	96.3	96.7	93.0	98.6	90.3	86.7	96.3	90.3	81.0	85.3	88.3	94.3
18	OMH 14-16 (CAH1424)	99.3	97.0	108.7	96.0	96.3	96.0	98.0	98.8	85.3	87.3	99.3	93.0	79.3	83.7	88.0	94.2
19	C.P 888	102.0	103.0	107.7	97.7	98.3	100.7	100.3	101.4	95.0	89.7	97.7	91.7	81.7	87.3	90.5	96.2
20	DH-300	102.3	100.0	107.0	97.7	98.7	101.0	98.3	100.7	91.0	91.0	98.7	92.7	83.7	89.7	91.1	97.0
21	X-7	100.0	99.3	103.7	96.7	94.7	97.7	92.7	97.8	94.7	86.7	97.3	91.7	83.7	86.0	90.0	94.4
22	PM16101L	101.3	98.7	105.0	96.3	96.3	98.0	94.7	98.6	89.3	86.7	99.3	90.0	80.3	84.7	88.4	94.4
23	MM 2626	102.7	102.0	108.7	97.3	97.0	98.3	96.7	100.4	92.3	89.3	98.7	91.7	81.3	87.7	90.2	96.9
24	GH-1436	98.0	99.0	103.0	95.3	93.3	94.0	94.3	96.7	85.7	90.0	97.3	90.3	78.3	83.0	87.4	93.6
25	IMHBG-2016-3	103.7	103.0	101.0	91.0	96.0	97.7	87.7	97.1	88.3	87.7	97.7	90.7	81.0	87.0	88.7	94.4
26	GK3204	101.0	100.7	107.0	98.7	96.7	98.7	98.0	100.1	92.3	90.3	98.3	92.7	80.7	85.7	90.0	96.0
27	HT 16607	103.7	102.3	107.0	98.7	97.7	97.3	101.7	101.2	92.7	88.7	98.7	93.7	80.7	87.3	90.3	96.6
28	X-6	101.7	103.0	107.0	94.7	96.3	96.7	95.0	99.2	96.3	89.0	98.0	91.3	82.0	87.0	90.6	96.0
29	CMH11-591	104.7	103.3	107.0	95.7	96.3	100.3	95.3	100.4	95.3	86.7	98.7	92.0	81.0	88.3	90.3	96.2
30	VNR 33051	101.0	100.0	105.7	94.7	97.7	98.3	93.0	98.6	97.7	87.7	98.0	91.3	81.7	91.3	91.3	95.2
31	CCH 167	99.3	102.7	107.0	94.7	93.7	95.7	100.3	99.0	87.3	87.0	97.3	93.7	79.3	84.0	88.1	95.0
32	KMH-24752	100.0	97.0	108.7	96.7	95.7	96.0	95.7	98.5	92.3	86.0	97.3	92.3	78.0	86.7	88.8	94.3
33	OMH 1462 (CAH 142)	104.3	99.0	104.3	96.0	99.0	100.3	98.3	100.2	93.7	89.3	99.0	93.0	82.7	88.7	91.1	96.3
34	KH-POLO Gold	103.0	99.3	103.7	95.7	97.3	98.0	95.0	98.9	88.7	86.7	98.3	91.0	81.7	90.7	89.5	95.8

Table No. 1 (Contd.)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
35	TMMH 838	102.7	101.7	112.7	102.7	97.3	99.0	103.7	102.8	91.7	90.0	102.3	93.7	82.3	102.0	93.7	98.9
36	ADV 9233	102.3	101.3	74.7	98.0	97.3	100.7	99.7	96.3	90.7	91.0	100.3	94.0	81.7	88.7	91.1	95.8
37	OMH 14-27 (CAH1511)	102.0	99.3	102.3	93.3	96.3	98.7	93.0	97.9	90.3	89.7	94.3	92.0	80.0	85.3	88.6	94.1
38	HM16305	99.7	100.7	102.3	97.3	96.0	96.0	94.7	98.1	88.7	89.3	98.0	93.7	80.7	85.3	89.3	95.0
39	CMH11-586	105.0	103.0	103.0	-	97.0	96.3	91.0	99.2	94.7	89.0	97.7	92.3	82.0	88.0	90.6	95.1
40	DKC 9178(IQ8623)	102.0	101.0	107.7	98.0	97.7	96.7	95.7	99.8	92.0	89.0	98.7	92.3	81.7	87.7	90.2	96.6
41	PM16104L	103.7	99.0	103.7	97.0	95.3	96.7	95.0	98.6	89.3	86.7	98.7	91.0	81.0	87.3	89.0	95.3
42	Star-9	102.7	100.0	104.3	95.3	97.3	98.0	97.0	99.2	93.7	87.0	98.7	91.7	83.0	84.3	89.7	95.1
43	PM16102L	102.0	101.0	107.0	95.3	97.0	98.3	96.3	99.6	89.7	90.3	99.3	92.3	80.7	85.7	89.7	95.9
44	DH-301	98.0	98.0	105.7	95.7	97.0	95.7	91.0	97.3	86.7	88.7	97.7	90.7	81.7	83.0	88.1	93.4
45	BH 414012	98.7	99.3	101.7	91.3	96.0	97.0	91.7	96.5	93.3	89.7	95.7	91.3	80.0	84.3	89.1	93.5
46	BLH 114	102.0	100.3	103.7	91.7	99.0	99.7	96.3	99.0	95.0	90.7	98.7	93.0	79.7	89.7	91.1	96.2
	CHECKS																
47	BIO 9682(C)	101.7	102.0	107.0	95.0	95.7	96.7	95.7	99.1	83.3	91.3	98.3	92.7	81.7	92.3	89.9	95.9
48	CMH 08-287(C)	101.3	100.3	103.7	93.7	96.3	99.0	95.0	98.5	95.3	91.3	97.7	92.3	80.3	88.3	90.9	95.1
49	CMH 08-282(C)	99.3	101.0	101.0	89.0	96.7	96.3	88.3	96.0	84.7	88.3	96.0	89.0	77.7	85.3	86.8	92.3
	Loc. Mean	**101.9**	**100.6**	**104.7**	**95.8**	**96.6**	**97.8**	**95.3**	**99.0**	**91.0**	**88.7**	**98.3**	**91.7**	**81.0**	**87.2**	**89.7**	**95.3**
	C.D. (5%)	3.36	1.97	13.27	3.99	1.07	1.13	4.12	2.74	1.39	3.43	1.45	2.53	3.45	1.82	2.40	1.31
	C.V. (%)	2.04	1.21	7.82	2.55	0.68	0.72	2.67	2.63	0.94	2.39	0.91	1.70	2.62	1.29	2.36	2.37
	F (Prob)	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.07	0.00	0.00	0.00

Table No. 1 (Contd.)

		PLANT HEIGHT(cm)				NWPZ ZN 2							NEPZ ZN 3
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	Mean
1	BLH 115	240.0	222.3	201.0	272.7	234.0	140.7	197.0	184.7	210.0	176.3	224.3	188.8
2	GH-1427	230.0	231.3	188.7	253.3	225.8	145.0	181.2	184.3	175.0	172.8	208.0	177.7
3	SYN617328	238.3	224.3	196.0	256.7	228.8	130.3	199.0	183.7	185.0	156.2	214.7	178.2
4	CMH11-583	223.3	216.0	196.3	285.3	230.3	153.0	180.6	188.3	195.0	161.0	201.0	179.8
5	CCH 9241	221.7	185.3	191.7	258.3	214.3	125.7	193.9	182.7	157.5	146.7	191.3	166.3
6	VaMH 13024	263.3	191.7	173.7	280.7	227.3	156.3	206.9	187.3	192.5	168.4	222.0	188.9
7	GK3202	258.3	242.3	192.3	278.3	242.8	123.7	179.5	185.0	195.0	175.0	226.3	180.8
8	OMH 14-55 (CAH1537)	258.3	220.3	181.7	275.3	233.9	126.3	210.0	176.7	192.5	175.4	198.7	179.9
9	SYN616734	225.0	186.3	192.7	268.7	218.2	120.0	186.0	185.3	192.5	156.8	202.7	173.9
10	PM16103L	243.3	244.7	182.3	272.0	235.6	146.7	195.6	185.3	205.0	169.5	217.0	186.5
11	VNR 3Y069	245.0	199.7	182.7	266.0	223.3	140.7	197.1	184.7	195.0	174.0	212.7	184.0
12	KH-16-149	218.3	190.3	200.3	266.7	218.9	126.3	185.8	182.7	177.5	140.5	194.3	167.9
13	JKMH 4152	243.3	193.0	198.3	274.7	227.3	133.0	179.9	187.0	192.5	162.0	221.3	179.3
14	JH 13278	250.0	245.7	195.0	302.0	248.2	151.3	209.7	175.0	217.5	159.6	221.7	189.1
15	MM9333	235.0	203.7	193.0	267.0	224.7	129.3	158.8	188.3	187.5	157.9	202.0	170.6
16	KMH-5022	230.0	206.7	185.3	248.7	217.7	145.7	214.2	185.7	195.0	171.6	218.3	188.4
17	MM 2030	246.7	206.7	200.3	270.7	231.1	134.7	206.1	182.7	200.0	167.4	207.0	183.0
18	OMH 14-16 (CAH1424)	221.7	208.0	189.3	272.7	222.9	121.0	185.7	183.3	182.5	148.2	192.0	168.8
19	C.P 888	226.7	212.7	192.0	257.7	222.3	134.0	178.9	183.7	200.0	151.8	220.7	178.2
20	DH-300	208.3	184.3	186.3	246.0	206.3	116.3	160.7	183.0	160.0	147.9	175.7	157.3
21	X-7	216.7	217.7	185.0	270.3	222.4	128.0	176.0	185.0	177.5	144.8	196.0	167.9
22	PM16101L	221.7	214.0	184.3	275.3	223.8	129.3	178.3	185.3	192.5	151.8	200.0	172.9
23	MM 2626	260.0	224.3	188.3	285.7	239.6	135.3	189.1	184.0	187.5	157.4	206.7	176.7
24	GH-1436	220.0	212.0	181.3	226.7	210.0	125.0	174.2	181.0	193.5	144.7	173.3	165.3
25	IMHBG-2016-3	261.7	251.0	190.7	291.3	248.7	174.0	194.0	184.3	207.5	199.8	249.0	201.4
26	GK3204	265.0	163.0	186.3	278.7	223.3	124.0	180.6	184.3	202.5	160.2	215.7	177.9
27	HT 16607	215.0	191.0	186.7	264.0	214.2	136.7	192.1	186.0	200.0	156.4	194.7	177.6
28	X-6	275.0	229.0	188.7	305.3	249.5	154.7	199.2	186.0	202.5	175.6	230.7	191.4
29	CMH11-591	263.3	242.7	187.3	255.0	237.1	143.3	181.6	182.3	192.5	190.7	217.7	184.7
30	VNR 33051	251.7	216.3	185.7	286.0	234.9	133.7	180.5	185.3	215.0	169.3	216.7	183.4
31	CCH 167	221.7	216.0	184.7	251.3	218.4	127.3	185.1	187.0	192.5	155.0	204.0	175.2
32	KMH-24752	220.0	211.0	198.3	275.0	226.1	124.0	189.0	184.0	187.5	159.1	222.0	177.6
33	OMH 1462 (CAH 142)	231.7	200.3	189.0	258.7	219.9	129.0	175.1	188.3	172.5	142.4	187.7	165.8
34	KH-POLO Gold	236.7	211.7	199.7	280.0	232.0	118.0	198.6	184.3	172.5	170.5	193.3	172.9

Table No. 1 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	NEPZ ZN 3 Mean
35	TMMH 838	201.7	173.3	197.7	242.7	203.8	116.3	190.7	182.3	150.0	122.2	187.7	158.2
36	ADV 9233	206.7	189.3	202.3	261.7	215.0	124.7	192.4	186.3	185.0	141.8	174.7	167.5
37	OMH 14-27 (CAH1511)	268.3	247.3	182.3	255.0	238.3	138.0	203.2	186.3	187.5	183.0	225.0	187.2
38	HM16305	231.7	214.7	187.7	282.7	229.2	131.3	199.1	182.7	172.5	155.2	199.0	173.3
39	CMH11-586	246.7	224.3	185.7	267.3	231.0	144.7	193.3	180.3	195.0	178.4	229.3	186.8
40	DKC 9178(IQ8623)	280.0	252.7	177.7	274.7	246.3	145.0	203.3	182.7	202.5	176.9	230.7	190.2
41	PM16104L	258.3	222.7	199.7	297.7	244.6	137.7	202.2	178.7	205.0	166.8	225.3	185.9
42	Star-9	221.7	193.3	200.0	246.3	215.3	130.3	189.8	182.7	192.5	156.9	201.7	175.6
43	PM16102L	241.7	221.7	194.0	284.0	235.3	139.0	200.0	183.3	195.0	177.1	212.0	184.4
44	DH-301	225.0	188.3	199.0	231.0	210.8	126.3	170.4	178.0	182.5	151.5	188.0	166.1
45	BH 414012	226.7	197.7	199.3	216.3	210.0	128.0	199.6	183.7	150.0	159.1	198.3	169.8
46	BLH 114	240.0	237.7	188.7	277.0	235.8	138.3	197.2	179.7	177.5	162.2	204.0	176.5
	CHECKS												
47	BIO 9682(C)	231.7	214.3	196.0	270.0	228.0	132.0	204.4	183.3	195.0	179.5	204.3	183.1
48	CMH 08-287(C)	251.7	218.0	182.0	282.7	233.6	153.3	232.9	177.7	197.5	200.7	217.7	196.6
49	CMH 08-282(C)	235.0	221.7	182.0	275.0	228.4	172.3	204.6	182.3	215.0	171.9	230.0	196.0
	Loc. Mean	**237.8**	**212.9**	**190.4**	**268.2**	**227.3**	**135.5**	**191.5**	**183.6**	**189.9**	**163.3**	**208.3**	**178.7**
	C.D. (5%)	23.41	4.32	9.32	23.00	20.47	24.48	18.51	4.39	27.77	16.93	21.36	11.71
	C.V. (%)	6.07	1.25	3.02	5.29	6.44	11.15	4.81	1.47	7.27	6.40	6.33	5.76
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 1 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
1	BLH 115	229.3	156.7	270.3	245.7	157.4	199.5	220.0	211.3	160.0	165.0	208.0	253.5	161.7	173.9	187.0	203.0
2	GH-1427	210.7	151.7	239.3	230.3	148.6	162.0	188.3	190.1	160.0	170.0	184.7	222.1	146.7	158.7	173.7	188.8
3	SYN617328	205.7	165.3	220.7	238.7	159.0	179.7	198.3	195.3	161.7	205.0	186.7	235.6	143.3	147.1	179.9	192.7
4	CMH11-583	214.0	177.0	246.3	238.0	149.7	161.5	196.7	197.6	180.0	163.3	212.7	246.7	172.3	160.4	189.2	196.5
5	CCH 9241	201.3	147.0	234.3	233.0	163.9	175.3	196.7	193.1	151.7	161.7	191.3	235.8	145.3	163.3	174.9	185.0
6	VaMH 13024	219.0	179.7	261.3	243.0	168.1	200.9	208.3	211.5	161.7	171.7	213.3	266.3	174.3	165.5	192.1	203.3
7	GK3202	201.3	155.7	247.7	246.0	142.9	180.7	190.0	194.9	170.0	151.7	203.0	256.4	154.3	167.4	183.8	196.7
8	OMH 14-55 (CAH1537)	228.0	173.7	257.0	235.7	182.0	192.7	190.0	208.4	210.0	183.3	182.3	250.6	163.3	155.5	190.8	200.8
9	SYN616734	195.3	159.0	237.3	231.3	155.1	167.3	205.0	192.9	160.0	170.0	179.3	246.7	161.0	147.1	177.4	188.3
10	PM16103L	215.3	175.0	256.7	233.0	138.6	190.0	200.0	201.2	205.0	171.7	206.7	254.8	146.0	162.0	191.0	200.7
11	VNR 3Y069	224.7	177.3	252.3	244.0	161.9	184.1	190.0	204.9	205.0	170.0	201.0	258.0	147.3	176.1	192.9	199.5
12	KH-16-149	196.7	147.3	234.7	229.0	142.8	169.1	191.7	187.3	160.0	175.0	189.7	236.0	135.0	162.9	176.4	184.9
13	JKMH 4152	232.3	166.3	253.3	238.0	149.9	195.6	220.0	207.9	171.7	168.3	212.7	268.6	162.3	162.4	191.0	199.4
14	JH 13278	218.0	172.0	257.3	236.0	154.3	197.2	203.3	205.5	210.0	163.3	197.0	263.6	156.0	167.6	192.9	205.4
15	MM9333	211.7	174.0	246.3	220.0	137.0	189.6	213.3	198.9	190.0	173.3	184.3	242.1	160.3	153.4	183.9	192.1
16	KMH-5022	212.3	161.3	258.0	241.3	172.6	185.4	210.0	205.9	161.7	193.3	183.7	243.8	159.3	171.2	185.5	198.0
17	MM 2030	209.0	166.7	262.0	232.3	127.4	164.7	186.7	192.7	200.0	170.0	187.3	257.4	157.3	157.3	188.2	195.7
18	OMH 14-16 (CAH1424)	203.0	156.7	218.7	231.7	153.4	183.8	185.0	190.3	185.0	186.7	180.3	234.7	143.7	149.9	180.0	187.7
19	C.P 888	203.0	147.3	228.0	232.7	145.1	154.6	198.3	187.0	181.7	155.0	168.0	223.9	154.7	150.6	172.3	187.0
20	DH-300	186.7	158.3	195.0	203.3	132.2	157.3	165.0	171.1	183.3	173.3	161.0	222.3	135.3	140.4	169.3	173.1
21	X-7	200.3	145.7	238.7	203.0	139.5	175.9	188.3	184.5	150.0	166.7	175.7	246.3	143.7	154.4	172.8	183.7
22	PM16101L	211.3	164.3	247.3	227.3	171.3	155.5	191.7	195.5	181.7	168.3	178.3	236.9	170.7	157.2	182.2	191.1
23	MM 2626	202.7	162.3	242.0	217.0	164.5	162.1	205.0	193.6	200.0	166.7	182.7	243.3	153.0	158.5	184.0	194.7
24	GH-1436	194.7	141.7	204.7	212.7	120.9	164.1	180.0	174.1	180.0	151.7	150.7	210.3	143.0	145.5	163.5	175.3
25	IMHBG-2016-3	217.7	188.3	262.3	243.7	167.9	192.4	216.7	212.7	181.7	200.0	215.7	264.9	192.3	171.7	204.4	213.9
26	GK3204	201.0	167.3	235.7	243.7	156.0	173.9	188.3	195.1	160.0	158.3	201.3	257.1	164.7	147.1	181.4	191.9
27	HT 16607	191.7	177.0	229.0	246.3	147.5	158.1	206.7	193.8	191.7	158.3	176.7	230.1	157.7	154.3	178.1	189.0
28	X-6	227.7	173.3	279.0	248.0	171.8	189.2	230.0	217.0	150.0	148.3	212.0	263.9	169.0	177.1	186.7	208.1
29	CMH11-591	223.0	168.0	252.7	250.7	185.1	187.2	193.3	208.6	180.0	190.0	196.0	255.1	174.3	183.8	196.5	204.2
30	VNR 33051	219.7	172.3	253.7	231.0	149.6	188.2	211.7	203.7	205.0	153.3	211.3	245.3	169.0	151.0	189.2	200.1
31	CCH 167	208.3	150.7	234.7	230.0	151.2	177.0	198.3	192.9	150.0	166.7	187.3	232.8	149.0	156.7	173.8	187.7
32	KMH-24752	207.7	166.7	241.7	216.0	134.3	198.9	186.7	193.1	200.0	163.3	195.0	247.3	157.3	155.7	186.4	193.1
33	OMH 1462 (CAH 142)	197.0	145.3	228.3	234.7	152.0	181.2	195.0	190.5	161.7	153.3	185.3	229.1	158.3	135.0	170.5	184.0
34	KH-POLO Gold	217.3	166.3	257.7	238.0	151.7	189.2	183.3	200.5	198.3	153.3	188.7	257.5	164.0	153.6	185.9	195.0

Table No. 1 (Contd.)

		PLANT HEIGHT(cm)							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
35	TMMH 838	191.7	143.7	224.0	238.3	156.4	164.3	186.7	186.4	150.0	168.3	172.7	240.1	146.7	135.8	168.9	177.5
36	ADV 9233	182.3	162.0	212.3	222.3	132.9	171.1	185.0	181.1	200.0	165.0	176.7	240.4	153.3	146.9	180.4	183.3
37	OMH 14-27 (CAH1511)	212.7	167.0	256.3	235.0	163.4	199.6	206.7	205.8	160.0	200.0	209.3	263.3	167.0	167.3	194.5	203.6
38	HM16305	223.7	177.7	244.7	231.7	141.2	195.2	193.3	201.1	190.0	166.7	205.0	257.9	159.3	148.9	188.0	195.3
39	CMH11-586	214.0	164.3	248.3	-	172.6	187.8	205.0	198.7	160.0	155.0	201.0	250.5	180.0	174.5	186.8	198.1
40	DKC 9178(IQ8623)	219.3	178.7	256.3	232.3	169.0	204.1	203.3	209.0	190.0	153.3	210.0	243.9	163.7	173.1	189.0	205.4
41	PM16104L	226.3	189.3	248.3	237.7	169.3	202.8	205.0	211.3	195.0	151.7	223.0	262.9	163.3	168.9	194.1	206.0
42	Star-9	185.0	146.0	215.3	218.3	150.2	175.7	175.0	180.8	151.7	178.3	172.0	222.5	145.3	142.5	168.7	182.3
43	PM16102L	231.7	186.3	250.3	241.0	157.8	176.5	223.3	209.6	188.3	171.7	206.0	267.1	173.3	170.6	196.2	204.0
44	DH-301	189.0	142.7	226.7	235.7	134.3	164.9	185.0	182.6	160.0	168.3	169.3	228.2	145.0	138.7	168.3	179.5
45	BH 414012	201.3	161.0	222.3	223.3	161.9	174.5	191.7	190.9	160.0	163.3	185.3	228.9	152.0	164.7	175.7	184.7
46	BLH 114	239.3	173.3	244.3	243.3	167.4	179.6	205.0	207.5	201.7	155.0	202.0	242.7	167.7	162.7	188.6	199.4
	CHECKS																
47	BIO 9682(C)	214.0	165.0	253.0	221.7	158.6	199.3	210.0	203.1	210.0	171.7	182.0	255.9	155.0	154.5	188.2	198.3
48	CMH 08-287(C)	233.7	194.7	269.0	228.7	179.6	204.2	218.3	218.3	238.3	178.3	217.7	268.7	179.0	186.5	211.4	213.5
49	CMH 08-282(C)	225.7	195.3	259.7	231.3	166.6	218.1	215.0	216.0	210.0	158.3	219.0	263.1	173.3	170.0	199.0	208.5
	Loc. Mean	**210.8**	**165.4**	**243.2**	**232.6**	**154.8**	**181.7**	**198.8**	**198.1**	**180.1**	**168.3**	**192.7**	**246.4**	**158.6**	**159.2**	**184.2**	**194.5**
	C.D. (5%)	15.84	15.12	13.77	23.31	7.04	5.71	23.63	10.52	13.23	29.28	10.19	19.07	16.19	20.89	14.66	6.73
	C.V. (%)	4.64	5.64	3.49	6.12	2.80	1.94	7.34	5.05	4.53	10.74	3.26	4.78	6.30	8.10	7.00	5.98
	F (Prob)	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 1 (Contd.)

		EAR HEIGHT(cm)				NWPZ ZN 2							NEPZ ZN 3
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	Mean
1	BLH 115	125.0	122.0	99.7	103.3	112.5	60.7	86.7	84.3	105.0	74.9	114.3	87.6
2	GH-1427	140.0	107.3	91.3	103.0	110.4	70.7	84.0	88.3	92.5	85.7	116.7	89.6
3	SYN617328	143.3	128.0	95.0	103.7	117.5	64.0	114.4	85.3	97.5	71.3	111.3	90.6
4	CMH11-583	125.0	112.7	88.7	123.7	112.5	66.0	84.2	89.0	102.5	67.3	106.0	85.8
5	CCH 9241	136.7	90.7	101.0	104.0	108.1	56.0	91.3	85.7	85.0	58.6	100.0	79.4
6	VaMH 13024	150.0	92.0	88.3	128.0	114.6	73.3	97.0	87.3	92.5	73.7	118.3	90.4
7	GK3202	133.3	134.7	98.0	106.7	118.2	54.7	77.5	82.3	97.5	64.9	123.3	83.4
8	OMH 14-55 (CAH1537)	133.3	93.3	89.0	115.3	107.8	46.0	99.2	81.0	105.0	61.4	89.7	80.4
9	SYN616734	126.7	102.7	97.0	103.0	107.3	53.0	86.6	87.3	97.5	55.0	111.0	81.7
10	PM16103L	130.0	117.0	87.3	99.7	108.5	68.0	89.6	84.7	100.0	62.5	100.7	84.2
11	VNR 3Y069	141.7	98.0	98.3	110.0	112.0	62.7	101.4	84.3	102.5	73.9	116.7	90.2
12	KH-16-149	120.0	92.7	89.7	100.3	100.7	60.0	81.1	86.0	82.5	52.2	98.3	76.7
13	JKMH 4152	135.0	105.7	98.0	121.7	115.1	70.0	85.7	85.7	110.0	74.6	126.7	92.1
14	JH 13278	148.3	124.3	88.0	129.3	122.5	71.3	100.3	82.3	122.5	64.0	127.0	94.6
15	MM9333	141.7	125.0	87.7	112.7	116.8	59.0	75.5	87.0	85.0	56.0	113.0	79.3
16	KMH-5022	130.0	103.0	98.3	101.0	108.1	66.7	99.8	85.0	90.0	64.0	119.0	87.4
17	MM 2030	126.7	97.0	92.3	94.3	102.6	51.7	89.7	83.7	90.0	59.6	97.0	78.6
18	OMH 14-16 (CAH1424)	121.7	95.3	91.7	100.7	102.3	56.7	83.3	84.3	80.0	54.0	102.0	76.7
19	C.P 888	131.7	104.3	97.7	98.3	108.0	60.0	84.3	89.0	100.0	58.5	113.7	84.2
20	DH-300	118.3	107.7	96.7	88.0	102.7	52.0	75.3	84.0	80.0	51.9	95.7	73.1
21	X-7	116.7	115.0	98.3	109.7	109.9	64.0	83.7	87.0	85.0	60.6	107.3	81.3
22	PM16101L	115.0	108.0	89.7	97.0	102.4	52.0	82.2	87.0	100.0	48.6	94.7	77.4
23	MM 2626	155.0	118.0	100.3	123.3	124.2	60.7	86.7	86.7	97.5	62.7	106.7	83.5
24	GH-1436	138.3	118.3	104.7	91.3	113.2	65.0	73.0	84.7	107.5	59.2	98.0	81.2
25	IMHBG-2016-3	140.0	111.3	78.3	112.3	110.5	86.3	90.0	86.3	107.5	85.2	139.0	99.1
26	GK3204	141.7	77.3	88.0	110.0	104.3	55.7	85.2	86.3	97.5	63.1	109.7	82.9
27	HT 16607	135.0	102.3	98.0	109.3	111.2	67.3	99.2	88.0	122.5	59.6	117.0	92.3
28	X-6	151.7	105.7	87.0	111.7	114.0	73.0	86.0	83.3	105.0	71.9	120.3	89.9
29	CMH11-591	155.0	131.7	96.3	84.3	116.8	65.7	77.7	85.3	92.5	80.5	125.0	87.8
30	VNR 33051	141.7	117.0	97.3	122.0	119.5	56.3	88.6	87.0	107.5	69.8	117.3	87.8
31	CCH 167	136.7	122.0	94.3	110.3	115.8	64.0	90.9	88.0	102.5	66.9	111.7	87.3
32	KMH-24752	126.7	113.3	97.7	109.0	111.7	54.7	86.7	83.7	102.5	63.5	108.0	83.2
33	OMH 1462 (CAH 142)	126.7	112.0	88.7	104.0	107.8	60.0	77.6	89.7	90.0	53.5	98.7	78.2
34	KH-POLO Gold	141.7	105.7	93.0	108.0	112.1	48.0	92.3	85.3	85.0	60.0	96.7	77.9

Table No. 1 (Contd.)

S.No.	PEDIGREE	EAR HEIGHT(cm) LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	NEPZ ZN 3 Mean
35	TMMH 838	108.3	102.0	93.3	88.0	97.9	51.3	94.2	83.7	85.0	38.7	98.7	75.3
36	ADV 9233	121.7	105.0	97.7	111.3	108.9	63.0	95.5	86.0	107.5	61.6	94.7	84.7
37	OMH 14-27 (CAH1511)	156.7	142.0	91.3	102.7	123.2	64.7	102.0	86.3	95.0	70.2	118.3	89.4
38	HM16305	113.3	97.0	94.3	91.0	98.9	52.3	86.8	87.3	75.0	53.4	96.0	75.1
39	CMH11-586	136.7	122.3	91.0	111.3	115.3	66.3	91.0	79.3	100.0	73.9	132.7	90.5
40	DKC 9178(IQ8623)	165.0	143.0	94.7	116.3	129.8	75.7	94.5	85.7	105.0	76.0	129.0	94.3
41	PM16104L	143.3	103.3	91.7	125.3	115.9	67.0	88.9	86.7	102.5	65.0	114.0	87.3
42	Star-9	128.3	111.0	95.7	106.3	110.3	74.7	86.7	83.7	105.0	69.4	117.0	89.4
43	PM16102L	121.7	105.3	91.0	106.0	106.0	55.7	90.6	85.0	90.0	67.7	96.3	80.9
44	DH-301	125.0	83.7	88.3	84.3	95.3	55.0	76.6	83.3	97.5	56.4	96.0	77.5
45	BH 414012	140.0	105.3	93.7	96.7	108.9	53.7	100.8	84.0	117.5	66.5	116.0	89.7
46	BLH 114	140.0	123.0	95.3	126.3	121.2	65.7	102.2	83.3	87.5	58.3	105.7	83.8
	CHECKS												
47	BIO 9682(C)	140.0	105.7	96.0	112.0	113.4	61.3	96.2	88.3	102.5	76.8	115.3	90.1
48	CMH 08-287(C)	150.0	102.0	87.0	122.7	115.4	76.3	115.4	82.3	102.5	82.8	116.7	96.0
49	CMH 08-282(C)	136.7	114.0	83.0	114.7	112.1	83.0	99.1	83.0	110.0	68.4	132.0	95.9
	Loc. Mean	**134.8**	**109.7**	**93.3**	**107.4**	**111.3**	**62.5**	**89.9**	**85.4**	**98.0**	**64.8**	**110.8**	**85.2**
	C.D. (5%)	20.11	3.33	4.43	9.68	13.91	15.87	14.33	3.30	18.43	13.29	17.94	8.51
	C.V. (%)	9.20	1.88	2.93	5.56	8.94	15.68	7.92	2.39	9.35	12.66	9.99	8.78
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 1 (Contd.)

S.No.	PEDIGREE	EAR HEIGHT(cm) HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
1	BLH 115	92.7	63.0	131.3	130.0	82.1	109.2	100.0	101.2	85.0	81.7	93.7	105.1	73.3	86.9	87.6	96.1
2	GH-1427	94.0	60.7	111.0	120.0	75.8	85.6	88.3	90.8	71.7	76.7	84.7	84.1	66.3	79.3	77.1	90.3
3	SYN617328	93.0	63.0	116.7	144.0	86.5	99.2	95.0	99.6	81.7	96.7	85.0	105.5	68.7	73.5	85.2	96.6
4	CMH11-583	91.3	69.0	118.3	115.3	84.6	93.1	85.0	93.8	83.3	66.7	92.3	105.1	82.3	80.2	85.0	92.7
5	CCH 9241	88.0	53.7	103.7	121.0	84.9	97.5	88.3	91.0	61.7	80.0	84.0	91.6	66.0	81.7	77.5	87.4
6	VaMH 13024	89.0	67.0	124.7	138.3	93.3	108.6	106.7	103.9	70.0	78.3	100.7	116.9	84.3	82.7	88.8	98.3
7	GK3202	83.3	53.3	108.0	134.3	70.4	99.9	76.7	89.4	70.0	71.7	98.0	94.7	69.3	83.7	81.2	90.7
8	OMH 14-55 (CAH1537)	92.3	62.0	118.7	128.0	85.6	100.2	75.0	94.5	93.3	85.0	80.3	89.3	74.7	77.7	83.4	90.2
9	SYN616734	75.0	54.7	103.7	120.7	83.8	95.1	95.0	89.7	83.3	88.3	81.3	92.0	71.3	73.6	81.7	88.6
10	PM16103L	86.7	54.7	111.0	119.7	64.8	100.0	91.7	89.8	100.0	83.3	96.0	94.3	62.0	81.0	86.1	90.6
11	VNR 3Y069	97.7	64.0	124.0	137.3	88.2	92.7	85.0	98.4	115.0	86.7	91.7	111.6	64.0	88.0	92.8	97.2
12	KH-16-149	76.0	45.3	105.7	115.0	74.2	91.1	78.3	83.7	58.3	83.3	84.7	88.5	62.7	81.5	76.5	82.9
13	JKMH 4152	89.7	68.7	134.3	136.7	81.8	108.8	108.3	104.0	80.0	93.3	103.3	125.0	82.7	81.2	94.3	100.3
14	JH 13278	108.7	64.0	130.0	124.7	83.2	123.6	95.0	104.2	103.3	73.3	97.7	116.2	72.0	83.8	91.1	101.4
15	MM9333	96.0	53.7	108.3	119.7	73.5	111.2	95.0	93.9	85.0	85.0	76.0	96.3	71.3	76.7	81.7	90.9
16	KMH-5022	86.7	53.0	105.0	120.3	83.7	97.5	83.3	89.9	60.0	100.0	78.3	97.2	72.7	85.6	82.3	90.4
17	MM 2030	78.0	51.7	110.0	128.3	65.0	84.8	73.3	84.4	86.7	76.7	72.7	93.0	71.0	78.6	79.8	84.9
18	OMH 14-16 (CAH1424)	82.3	49.0	98.0	116.7	77.5	95.4	60.0	82.7	86.7	86.7	80.7	78.2	66.3	75.0	78.9	83.6
19	C.P 888	84.7	54.0	106.0	131.3	82.9	101.2	93.3	93.3	83.3	75.0	85.3	85.3	69.0	75.3	78.9	89.7
20	DH-300	77.0	54.3	95.3	109.0	66.3	85.1	71.7	79.8	93.3	81.7	78.0	79.8	58.3	70.2	76.9	81.3
21	X-7	87.0	48.3	114.3	114.7	80.7	93.1	88.7	89.5	71.7	86.7	87.0	94.3	65.7	77.2	80.4	88.5
22	PM16101L	91.3	55.0	116.3	119.0	87.5	103.3	81.7	93.4	83.3	76.7	84.3	92.3	81.0	78.6	82.7	88.0
23	MM 2626	90.7	61.0	119.7	119.3	87.7	93.4	85.0	93.8	100.0	76.7	86.3	104.2	66.7	79.3	85.5	94.2
24	GH-1436	87.7	47.3	99.7	99.3	74.5	99.0	68.7	82.3	83.3	73.3	76.0	79.1	74.3	72.7	76.5	85.9
25	IMHBG-2016-3	95.3	73.0	120.7	132.0	90.5	115.8	101.7	104.1	86.7	96.7	109.7	107.7	96.7	85.9	97.2	102.1
26	GK3204	82.3	61.7	100.7	132.0	84.6	100.2	83.3	92.1	61.7	68.3	88.7	101.7	76.7	73.6	78.4	88.3
27	HT 16607	90.0	68.3	116.3	128.0	86.4	97.9	100.0	98.1	86.7	70.0	80.0	97.5	73.7	77.1	80.8	94.4
28	X-6	87.3	59.7	124.7	131.7	84.0	114.9	106.7	101.3	63.3	90.0	91.7	96.9	81.0	88.5	85.2	96.3
29	CMH11-591	94.3	57.3	120.0	136.3	85.1	103.3	86.7	97.6	93.3	88.3	86.7	107.9	83.3	91.9	91.9	96.9
30	VNR 33051	89.7	61.7	126.3	114.7	81.9	100.7	95.0	95.7	100.0	70.0	108.3	97.8	79.7	75.5	88.6	95.9
31	CCH 167	87.3	56.3	113.0	129.3	83.5	101.6	88.3	94.2	76.7	78.3	84.3	88.8	63.0	78.4	78.3	92.0
32	KMH-24752	90.3	59.7	105.0	115.7	74.7	103.1	86.7	90.7	85.0	80.0	93.0	98.7	78.7	77.8	85.5	91.0
33	OMH 1462 (CAH 142)	84.0	52.7	104.7	127.7	78.8	95.1	78.3	88.7	73.3	76.7	85.3	80.1	70.7	67.5	75.6	85.9
34	KH-POLO Gold	90.0	52.3	118.3	124.3	76.8	93.0	76.7	90.2	95.0	73.3	78.3	95.5	75.0	76.8	82.3	88.7

Table No. 1 (Contd.)

S.No.	PEDIGREE	EAR HEIGHT(cm) HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
35	TMMH 838	73.0	47.0	105.0	123.3	73.1	86.6	78.3	83.8	71.7	75.0	83.0	85.9	65.3	67.9	74.8	81.7
36	ADV 9233	91.0	59.0	107.7	130.7	75.6	100.7	80.0	92.1	95.0	70.0	90.7	99.1	69.7	73.4	83.0	90.7
37	OMH 14-27 (CAH1511)	95.3	58.7	117.0	127.3	81.1	105.2	88.3	96.1	73.3	93.3	94.3	92.7	79.0	83.7	86.1	96.5
38	HM16305	87.3	57.0	95.7	124.7	70.4	100.6	80.0	88.0	80.0	68.3	87.3	85.1	69.0	74.5	77.4	83.8
39	CMH11-586	85.7	58.0	116.7	-	86.4	101.6	100.0	91.4	60.0	81.7	96.0	99.9	92.0	87.2	86.1	94.1
40	DKC 9178(IQ8623)	96.0	65.7	115.3	131.3	97.2	116.0	86.7	101.2	95.0	66.7	102.3	98.0	77.0	86.6	87.6	100.8
41	PM16104L	91.3	69.7	106.7	119.7	81.7	109.5	90.0	95.5	86.7	78.3	85.0	90.5	69.3	84.4	82.4	93.5
42	Star-9	80.7	54.7	112.3	126.3	88.1	97.8	80.0	91.4	80.0	86.7	89.3	85.7	66.7	71.3	79.9	91.2
43	PM16102L	84.7	58.0	107.0	119.7	77.3	80.3	93.3	88.6	73.3	81.7	87.0	84.7	80.7	85.3	82.1	87.9
44	DH-301	78.0	42.7	104.0	116.0	64.0	87.8	85.0	82.5	80.0	76.7	76.0	79.1	67.0	69.4	74.7	81.4
45	BH 414012	96.0	63.3	113.7	138.0	89.2	104.8	90.0	99.3	76.7	76.7	104.3	91.6	78.0	82.3	84.9	94.7
46	BLH 114	104.7	64.0	126.0	137.3	96.2	105.9	91.7	103.7	105.0	66.7	98.0	112.7	81.7	81.3	90.9	98.2
	CHECKS																
47	BIO 9682(C)	89.7	60.3	132.7	130.0	88.9	106.9	100.0	101.2	105.0	71.7	99.3	114.3	77.7	77.2	90.9	97.7
48	CMH 08-287(C)	95.3	65.7	131.3	146.7	94.8	107.4	105.0	106.6	106.7	78.3	102.0	118.7	90.7	93.3	98.3	103.2
49	CMH 08-282(C)	98.7	79.0	122.0	127.3	91.6	125.0	106.7	107.2	88.3	81.7	105.7	105.0	79.7	85.0	90.9	100.8
	Loc. Mean	**88.9**	**58.7**	**113.8**	**125.7**	**81.6**	**100.6**	**88.3**	**93.9**	**83.4**	**79.8**	**89.5**	**96.6**	**73.8**	**79.6**	**83.8**	**92.0**
	C.D. (5%)	10.99	8.56	10.36	19.19	4.39	4.13	18.69	6.79	10.22	20.62	11.74	12.77	13.46	10.44	9.71	4.60
	C.V. (%)	7.63	9.00	5.62	9.32	3.32	2.53	13.06	6.87	7.56	15.95	8.10	8.15	11.25	8.10	10.19	8.63
	F (Prob)	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 2 PERFORMANCE OF LATE MATURITY EXPERIMENTAL HYBRIDS AT LUDHIANA, KARNAL, KANPUR, PANTNAGAR, DHOLI, RANCHI, BHUBANESHWAR, VARANASI, BAHRAICH, SABOUR, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, VAGARAI, COIMBATORE, RAHURI, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA, JHABUA IN TRIAL No. TR61B (NIVT LATE) DURING KHARIF 2016

Sl		GRAIN YIELD (kg/ha) AT 15% MOISTURE								NWPZ ZN 2														NEPZ ZN 3	
No	PEDIGREE	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	SABO	R	MEAN	R
1	RMH 1601	9283	5	7165	12	10463	7	9069	8	8995	3	3258	28	5212	21	5653	19	5421	3	6590	10	10114	2	6944	1
2	JH 13337	7870	21	7422	8	10344	12	8580	14	8554	11	4048	12	7542	2	4366	44	4756	9	6410	13	8356	7	5972	12
3	IMH 1528	6662	38	5747	41	9320	27	6966	42	7174	39	4438	7	2148	47	5467	25	4294	14	3420	46	3945	47	4281	46
4	AH-7210	5664	44	7210	11	8338	42	7174	34	7096	41	3644	21	4177	36	4468	42	3179	34	6193	16	4834	43	4669	40
5	JH 13094	6843	36	7794	6	9911	18	7910	25	8115	16	4142	9	4979	29	5778	14	3077	37	5421	28	4328	46	4651	41
6	MAH-14-5	7548	28	5964	39	8933	32	7063	38	7377	37	2785	42	4065	37	6080	6	3641	21	5453	27	5808	37	5246	27
7	NS 8001	9239	6	6829	22	9826	22	8800	11	8674	7	2872	38	3682	41	5560	24	3670	20	4922	37	5845	35	4999	30
8	JH 15004	8383	12	6290	32	8726	36	8261	18	7915	22	2990	35	5177	23	4682	39	4148	15	5765	22	7538	15	5533	17
9	IMH 1526	8038	17	6171	35	10135	16	8255	19	8150	14	4241	8	5781	15	6448	3	4463	11	6450	11	6974	19	6084	9
10	BIO 716	8962	8	7078	15	8909	33	10265	1	8804	5	3110	31	6112	10	4339	45	3622	22	5804	21	5961	32	4932	34
11	IMH 1602	7068	30	6671	26	8741	35	7912	24	7598	32	5284	3	5876	13	5651	20	4134	16	3224	48	6483	24	4873	36
12	JH 15135	8904	9	6984	18	8037	44	9956	3	8470	12	3854	19	5871	14	5572	23	3364	29	6772	8	10323	1	6508	4
13	JH 13227	8121	16	6549	27	8840	34	8398	17	7977	20	3017	34	6431	7	5910	9	5042	8	7340	4	8138	9	6608	2
14	AH-1602	8344	13	5972	38	9902	20	8846	10	8266	13	3866	18	5042	25	5451	26	3788	19	6376	14	8002	11	5904	13
15	MH 25	5890	41	7243	10	10239	13	7336	30	7677	30	2860	39	4441	35	5842	10	3286	32	5688	24	7272	16	5522	18
16	NRI MH4	6995	33	5697	43	7111	47	8576	15	7095	42	4929	4	-	49	5420	27	5112	7	6026	18	6020	31	5501.4	19
17	AH-7188	6060	40	6373	30	10347	11	7060	39	7460	34	2456	47	3106	43	6064	7	2910	40	5082	32	5843	36	4975	32
18	QMH-1478	6756	37	7804	5	9776	23	7950	23	8071	17	3394	24	5744	16	4877	35	2756	44	4906	38	5232	41	4443	43
19	IMH 1610	5873	42	7999	4	8497	40	7295	31	7416	35	3019	33	2924	45	7081	2	5557	1	5229	31	7803	12	6417	6
20	NS 8181	7002	32	7728	7	9053	29	6980	41	7691	29	3194	30	5963	12	5639	21	2337	49	3348	47	5941	33	4316	45
21	IMH 1533	7393	29	5533	45	8435	41	7106	37	7117	40	2570	44	3978	39	5572	22	3349	31	4181	42	5653	40	4689	39
22	IMH 1527	9436	4	6877	19	7087	48	8733	13	8033	19	2787	41	5032	26	5274	29	4313	13	7934	3	8524	5	6511	3
23	SVMH-55	4969	46	5726	42	9861	21	9084	7	7410	36	2393	48	3468	42	5679	18	3444	24	3593	43	6417	25	4783	38
24	JH 15106	7892	20	5955	40	10100	17	7821	26	7942	21	4561	6	5343	19	4975	34	3516	23	4965	36	8119	10	5394	25
25	BIO 274	8318	14	6478	28	8280	43	7997	22	7768	26	3270	27	7489	3	6285	4	3431	25	5021	34	6960	20	5424	24
26	QMH-1435	4165	48	5381	46	7169	46	8565	16	6320	48	3344	25	3017	44	5743	16	2780	43	3582	44	3155	48	3815	48
27	AH-1601	8000	18	6815	24	10386	9	5823	47	7756	27	4002	14	5208	22	7084	1	2462	48	6720	9	7728	13	5999	10
28	JH 13023	8190	15	6827	23	10943	4	10141	2	9025	2	3927	16	6216	8	5032	32	5172	5	6886	6	8358	6	6362	7
29	WH-1095	5839	43	5030	47	10622	5	6345	46	6959	45	3234	29	5382	17	5806	11	4756	10	5231	30	6179	29	5493	20
30	DAS-MH-113	7613	26	3062	48	8587	39	7121	36	6596	47	2925	37	5352	18	4449	43	2728	46	4690	39	6105	30	4493	42
31	MMH 1302	8777	10	7043	17	8974	30	6858	44	7913	23	3023	32	4693	32	4577	40	3854	18	6154	17	7664	14	5562	16
32	QMH-1472	4824	47	7300	9	8942	31	6703	45	6942	46	2934	36	4956	30	4983	33	3362	30	4421	41	4650	45	4354	44
33	CAH-1533	6623	39	7088	14	9616	24	7448	28	7694	28	2554	45	3711	40	5702	17	2682	47	5063	33	5914	34	4840	37
34	RMH 815	7797	22	8385	1	10446	8	7787	27	8604	8	3503	23	4755	31	4188	46	3898	17	6854	7	6900	22	5460	23
35	JH 15080	8970	7	7089	13	11302	2	8049	21	8852	4	3852	20	7584	1	5767	15	2909	41	6413	12	8814	4	5976	11

TABLE No. 2 **PERFORMANCE OF LATE MATURITY EXPERIMENTAL HYBRIDS AT LUDHIANA, KARNAL, KANPUR, PANTNAGAR, DHOLI, RANCHI, BHUBANESHWAR, VARANASI, BAHRAICH, SABOUR, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, VAGARAI, COIMBATORE, RAHURI, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA, JHABUA IN TRIAL No. TR61B (NIVT LATE) DURING KHARIF 2016**

		GRAIN YIELD (kg/ha) AT 15% MOISTURE								NWPZ														NEPZ	
										ZN 2														ZN 3	
Sl No	PEDIGREE	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	SABO	R	MEAN	R
36	IMH 1608	3198	49	2682	49	10174	15	7218	33	5818	49	3641	22	2632	46	3961	47	3077	36	3114	49	2747	49	3225	49
37	IMH 1547	6848	35	6850	20	9537	25	7009	40	7561	33	5382	2	6742	5	3883	49	3386	27	7174	5	5706	38	5037	29
38	JH 15130	10184	1	8254	2	10566	6	8789	12	9448	1	4653	5	4616	33	4809	37	3430	26	8051	2	8262	8	6138	8
39	JH 15011	9620	3	6026	37	10186	14	9209	6	8760	6	5655	1	5262	20	5392	28	5125	6	5733	23	6822	23	5768	14
40	IMH 1601	6907	34	6843	21	10367	10	7401	29	7879	24	4121	11	6147	9	5103	31	3231	33	5934	19	5664	39	4983	31
41	MH 26	5075	45	6251	34	11436	1	5500	49	7065	43	3325	26	4567	34	5802	12	3384	28	5818	20	4694	44	4925	35
42	QMH-1470	7700	25	6476	29	11128	3	6922	43	8057	18	2196	49	5020	27	3948	48	2955	39	4548	40	4962	42	4103	47
43	BIO 509	7708	24	6107	36	9324	26	7254	32	7598	31	3909	17	5158	24	5784	13	4365	12	5300	29	7182	17	5658	15
44	AH-7005	7054	31	5574	44	9221	28	7137	35	7247	38	2806	40	5013	28	4781	38	2897	42	6289	15	6205	28	5043	28
45	IMH 1607	7599	27	6262	33	8698	37	5686	48	7061	44	3951	15	1860	48	5960	8	5491	2	3436	45	6308	26	5299	26
46	DAS-MH-112	7786	23	6693	25	9909	19	9955	4	8586	9	2782	43	4025	38	5228	30	5362	4	5004	35	6258	27	5463	22
	CHECKS																								
47	BIO 9682 (C)	7934	19	6359	31	8633	38	8211	20	7784	25	2513	46	6688	6	6207	5	3093	35	5674	25	6995	18	5493	21
48	CMH 08-287 (C)	9834	2	7072	16	7734	45	9585	5	8556	10	4125	10	7156	4	4818	36	3021	38	8121	1	9797	3	6439	5
49	CMH 08-282 (C)	8702	11	8207	3	6553	49	8999	9	8115	15	4037	13	6048	11	4530	41	2738	45	5574	26	6934	21	4944	33
	Location Mean	**7438**		**6550**		**9381**		**7900**		**7817**		**3538**		**5029**		**5340**		**3730**		**5549**		**6621**		**5307.2**	
	C.D. (5%)	1944		662		783		1758		1287		1618		2031		448		801		945		1770		991	
	C.V. (%)	16.13		6.24		5.15		13.73		**-**		**28.22**		**20.48**		5.17		13.25		10.51		16.49		**-**	
	F (Prob)	0		0		0		0				0.002		0		0		0		0		0			
	Plot Size	4.8		6		4.8		4.5		-		6		5.6		4.8		4.8		4.8		4.8		-	
	AGRONOMY DATA																								
	Sowing Date	21-06		25-06		6-08		29-06		-		25-06		29-06		23-06		27-06		21-06		30-06		-	
	Harvest Date	1-10		27-09		23-11		18-10		-		20-10		17-10		25-10		5-10		5-10		18-10		-	
	Irrigation Nos	7		6		2		-		-		2		-		-		-		-		3		-	
	Ferilizer Applied N	50		150		140		120		-		120		120		120		120		120		120		-	
	Ferilizer Applied P	24		60		60		60		-		60		60		60		60		60		40		-	
	Ferilizer Applied K	12		60		50		40		-		40		40		60		40		60		30		-	

LOCATIONS REJECTED DUE TO HIGH C.V. : DHOL 28.2 %: RANC 20.5 %: JHAB 22.1 %

TABLE No. 2 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																															
															PZ ZN 4													CWZ ZN 5		OV'L	
		HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	MEAN	R	MEAN	R
1	RMH 1601	5979	36	5208	24	12387	9	11297	8	11120	2	11882	10	7950	8	9403	9	5054	36	4763	30	7464	43	8721	1	9133	1	5689	1	7027	10	8236	2
2	JH 13337	9392	1	7859	3	11521	12	10980	11	8308	18	11083	21	7260	21	9486	8	5672	26	6237	3	10847	8	6379	10	8061	5	4520	10	7439	3	8085	7
3	IMH 1528	6217	33	3563	45	6954	46	7591	40	6274	44	9610	36	6843	31	6722	44	4877	39	3908	46	7551	41	4566	31	3489	42	3174	35	4878	46	5863	47
4	AH-7210	6561	27	3816	40	8368	42	7878	37	8936	9	8947	42	5635	48	7163	41	5649	27	4181	43	7690	37	4092	38	5486	19	3112	38	5420	35	6215	42
5	JH 13094	6400	30	4799	33	7374	45	9804	18	6385	41	9532	37	6475	35	7253	38	6017	19	5255	15	6277	48	4429	32	3541	41	2726	42	5104	40	6367	38
6	MAH-14-5	6203	34	6323	11	10149	27	9098	29	6469	40	9347	39	8370	3	7994	29	4980	37	5208	18	10303	15	5965	13	5554	18	3554	27	6402	19	6923	26
7	NS 8001	6397	31	4134	36	9591	34	9967	14	7829	28	12607	6	8014	7	8363	24	2758	49	4399	40	8442	28	5726	16	3918	39	3585	26	5049	42	6924	25
8	JH 15004	5622	40	6957	7	11162	17	9895	16	8917	10	11567	15	6375	37	8642	20	6593	14	4861	28	10607	10	5687	17	3722	40	4512	11	6294	21	7288	19
9	IMH 1526	5782	38	3575	44	12312	10	9753	20	8234	20	10653	27	7667	10	8282	25	4540	44	4458	37	9619	21	4711	26	2184	47	4341	16	5102	41	7021	22
10	BIO 716	9367	2	4906	30	15557	2	12434	2	11504	1	11326	19	7471	18	10366	1	5448	29	4547	34	11483	3	4926	23	8154	4	3017	39	6912	11	8103	5
11	IMH 1602	5096	44	5080	28	9833	29	7539	41	6764	37	10716	26	6357	39	7341	36	5964	21	3753	48	8217	31	3912	41	6344	10	3489	28	5638	31	6473	37
12	JH 15135	8816	6	8591	1	9625	33	8639	34	10937	4	14728	1	7541	15	9840	2	4855	40	5883	7	11009	7	6861	7	4410	34	4128	17	6603	16	8090	6
13	JH 13227	8882	5	6084	13	11388	14	11757	4	9546	6	12812	3	7338	19	9687	4	6194	17	6035	5	11852	2	7300	4	4664	31	4374	15	7209	5	8110	4
14	AH-1602	8519	9	6169	12	10191	26	9124	28	8496	14	13371	2	7167	26	9005	15	5852	23	6249	2	10436	14	6018	11	2911	45	4756	6	6293	22	7559	15
15	MH 25	7492	17	7747	4	9534	36	9313	25	6741	38	12638	4	6992	28	8637	21	5418	30	4558	33	7519	42	3328	45	4277	38	3149	37	5020	43	6918	28
16	NRI MH4	6137	35	2676	49	7640	44	-	49	5145	47	10169	32	8246	4	6669	45	4547	43	5257	14	7560	40	4320	33	3010	44	2181	48	4939	45	6051	44
17	AH-7188	5481	42	3495	46	9787	31	6916	44	5995	45	7853	46	6692	32	6603	46	4381	45	4929	26	7945	35	1867	49	5667	16	3176	34	4958	44	6037	45
18	QMH-1478	4964	46	4028	38	10740	22	6856	45	7685	30	10820	25	6193	43	7327	37	6155	18	4443	38	7953	34	5358	21	4985	29	3756	25	5779	27	6512	35
19	IMH 1610	6406	29	4889	31	8751	40	9027	31	8252	19	9431	38	7550	14	7758	31	5258	33	3935	44	7302	44	4115	37	5244	23	3397	31	5171	38	6775	30
20	NS 8181	7197	19	4085	37	12934	7	12893	1	7361	35	10527	29	8130	5	9018	14	6936	10	7106	1	7682	38	4135	35	2162	48	4081	19	5604	32	6959	24
21	IMH 1533	6605	26	3725	42	8500	41	9629	22	6330	43	8070	45	4788	49	6807	43	5346	32	4862	27	6442	47	4063	39	2115	49	2665	44	4566	47	5885	46
22	IMH 1527	7845	14	5471	21	10631	24	8720	33	6719	39	10222	30	7236	23	8121	26	7036	9	4976	21	9905	19	4644	27	4347	36	3214	33	6181	23	7296	18
23	SVMH-55	5036	45	3368	47	9378	37	9895	17	4118	49	7202	47	6257	42	6464	48	6507	15	4960	23	7646	39	4168	34	6252	12	2340	46	5907	25	6178	43
24	JH 15106	4900	47	5200	25	5584	48	9674	21	7755	29	9033	41	6567	34	6959	42	5734	24	5898	6	10510	13	4807	24	6657	8	4123	18	6721	13	6783	29
25	BIO 274	7799	15	5168	26	15627	1	11465	5	9552	5	11660	14	5654	47	9561	7	8231	4	5789	9	10580	11	6780	8	8929	2	4470	12	8062	1	8000	8
26	QMH-1435	3730	49	3647	43	6391	47	6299	47	8911	11	10534	28	6125	44	6520	47	4851	41	5137	20	5542	49	2625	46	2896	46	2859	40	4211	48	5362	48
27	AH-1601	8482	10	6939	8	11326	15	9905	15	8472	15	11371	18	7175	25	9096	13	6677	12	4839	29	10294	16	6961	5	8442	3	5268	2	7443	2	7795	10
28	JH 13023	7037	22	6042	14	11167	16	9598	23	7930	24	11831	11	7303	20	8701	18	6889	11	5267	13	9138	24	5519	20	6547	9	3971	20	6672	15	7791	11
29	WH-1095	7716	16	5737	19	13129	6	9158	27	8147	22	10072	33	6914	30	8696	19	3065	48	5357	11	8875	27	4592	28	6671	7	3486	29	5712	29	6962	23
30	DAS-MH-113	8902	4	6335	10	12429	8	11441	6	7628	31	12610	5	7841	9	9598	6	8726	1	4410	39	12046	1	4727	25	6020	13	4565	9	7186	7	7373	17
31	MMH 1302	6288	32	5488	20	10816	19	11358	7	11018	3	9151	40	7191	24	8759	17	4887	38	4367	41	8316	30	6388	9	4470	32	3777	23	5685	30	7182	21
32	QMH-1472	5626	39	3790	41	10750	21	7814	38	7923	25	8258	43	6363	38	7218	39	7457	8	5297	12	8077	32	4059	40	5400	21	2532	45	6058	24	6300	41
33	CAH-1533	6912	25	5858	17	9788	30	8903	32	8411	16	8222	44	6000	46	7728	32	5353	31	4964	22	8425	29	3873	43	4717	30	2807	41	5467	33	6578	33
34	RMH 815	8289	12	6041	15	13190	4	10314	12	7568	32	11887	9	7534	16	9260	10	5705	25	5183	19	9928	18	6957	6	5676	15	4785	5	6690	14	7726	12
35	JH 15080	8302	11	8216	2	10545	25	9796	19	7843	27	11671	13	6398	36	8967	16	8639	2	5561	10	10686	9	5730	15	5214	24	4729	8	7166	8	7896	9

TABLE No. 2 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																													
															PZ ZN 4												CWZ ZN 5		OV'L	
		HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	MEAN	R	MEAN	R
36	IMH 1608	3948	48	2993	48	5080	49	6096	48	5515	46	7060	48	6310	41	5286	49	3081	47	3795	47	6469	46	1925	48	3238	43	1810	49	3702	49	4584	49
37	IMH 1547	7862	13	5900	16	9694	32	9257	26	6373	42	10918	24	6325	40	8047	28	8256	3	6175	4	8932	26	3900	42	4443	33	3938	21	6341	20	6921	27
38	JH 15130	9349	3	7101	6	13177	5	11071	10	8625	13	11697	12	7662	11	9812	3	6620	13	4743	31	11225	5	7405	3	6009	14	5200	3	7201	6	8352	1
39	JH 15011	7342	18	5763	18	9897	28	9567	24	9385	7	10989	23	7237	22	8597	22	6337	16	4505	35	11117	6	5686	18	7768	6	4443	14	7083	9	7685	13
40	IMH 1601	6477	28	4784	34	12163	11	7115	43	4503	48	12075	8	9376	1	8070	27	5145	34	5231	16	7715	36	2026	47	5482	20	3909	22	5120	39	6677	32
41	MH 26	5217	43	5015	29	8943	39	7659	39	7520	33	11075	22	7015	27	7492	34	4654	42	3912	45	8938	25	4588	29	4351	35	3355	32	5289	37	6342	39
42	QMH-1470	5586	41	4142	35	8004	43	6780	46	7092	36	11387	17	7503	17	7214	40	5517	28	4939	25	8039	33	3443	44	5206	25	3762	24	5429	34	6314	40
43	BIO 509	8745	7	5285	23	11414	13	10182	13	9168	8	12361	7	6605	33	9109	12	7724	6	5804	8	9567	22	5730	14	5181	26	3433	30	6801	12	7540	16
44	AH-7005	5796	37	4804	32	8949	38	8506	35	7900	26	10210	31	7557	13	7675	33	4211	46	4294	42	9733	20	5277	22	5131	27	4737	7	5729	28	6576	34
45	IMH 1607	7097	21	3830	39	9554	35	9070	30	8064	23	6952	49	6991	29	7365	35	7458	7	4953	24	6917	45	4122	36	5635	17	2308	47	5817	26	6504	36
46	DAS-MH-112	7178	20	5094	27	10762	20	12215	3	8694	12	11396	16	8682	2	9146	11	5977	20	4470	36	10101	17	5970	12	6308	11	2684	43	6565	17	7652	14
	CHECKS																																
47	BIO 9682 (C)	6997	23	5319	22	11067	18	7376	42	8197	21	9703	35	6092	45	7821	30	5058	35	3459	49	9558	23	4569	30	4338	37	3152	36	5396	36	6742	31
48	CMH 08-287 (C)	8714	8	7453	5	14239	3	11144	9	8326	17	9889	34	7594	12	9623	5	8047	5	5226	17	10543	12	7526	2	5285	22	4906	4	7325	4	8198	3
49	CMH 08-282 (C)	6919	24	6375	9	10672	23	8240	36	7436	34	11223	20	8014	6	8411	23	5943	22	4567	32	11356	4	5595	19	5083	28	4470	13	6509	18	7183	20
	Location Mean	**6890**		**5283**		**10381**		**9354**		**7878**		**10579**		**7073**		**8198**		**5842**		**4957**		**9069**		**5022**		**5198**		**3723**		**6018**		**6998**	
	C.D. (5%)	1853		888		3308		945		947		887		1750		1511		632		1102		1635		1087		545		1334		1000		1235	
	C.V. (%)	16.59		10.37		19.66		6.37		7.42		5.17		15.27		-		6.67		13.71		11.12		13.36		5.21		**22.1**		-		-	
	F (Prob)	0		0		0		0		0		0		0.004				0		0		0		0		0		0					
	Plot Size	6		6		4.8		4.8		4.8		4.8		6		-		4.8		4.8		6		6		4.8		6		-		-	
	AGRONOMY DAT																																
	Sowing Date	22-06		30-06		27-06		2-08		25-07		25-06		12-07		-		1-07		27-06		16-07		2-07		8-07		19-06		-		-	
	Harvest Date	2-81		28-10		16-11		6-12		16-11		25-10		13-11		-		18-10		18-10		25-11		-		25-10		9-10		-		-	
	Irrigation Nos	4		7		2		8		12		12		2		-		1		-		-		-		-		-		-		-	
	Ferilizer Applied N	200		200		150		150		250		250		120		-		120		150		120		120		120		120		-		-	
	Ferilizer Applied P	60		60		65		75		75		75		60		-		90		80		60		60		60		60		-		-	
	Ferilizer Applied K	50		50		65		40		75		75		40		-		-		-		40		40		-		60		-		-	

TABLE No. 2 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9682 (C) NWPZ(ZN 2) LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	SABO	R	NEPZ ZN 3 MEAN	R
1	RMH 1601	17		12.7		21.2		10.5		15.6		29.6		-		-		75.2		16.2		44.6		15.1	
2	JH 13337	-		16.7		19.8		4.5		9.9		61.1		12.8		-		53.8		13		19.5		9.7	
3	IMH 1528	-		-		8		-		-		76.6		-		-		38.8		-		-		-	
4	AH-7210	-		13.4		-		-		-		45		-		-		2.8		9.2		-		-	
5	JH 13094	-		22.6		14.8		-		4.2		64.8		-		-		-		-		-		-	
6	MAH-14-5	-		-		3.5		-		-		10.8		-		-		17.7		-		-		-	
7	NS 8001	16.5		7.4		13.8		7.2		11.4		14.3		-		-		18.6		-		-		-	
8	JH 15004	5.7		-		1.1		0.6		1.7		19		-		-		34.1		1.6		7.8		-	
9	IMH 1526	1.3		-		17.4		0.5		4.7		68.8		-		3.9		44.3		13.7		-		5.1	
10	BIO 716	13		11.3		3.2		25		13.1		23.8		-		-		17.1		2.3		-		-	
11	IMH 1602	-		4.9		1.3		-		-		110.3		-		-		33.7		-		-		-	
12	JH 15135	12.2		9.8		-		21.3		8.8		53.4		-		-		8.7		19.3		47.6		11.3	
13	JH 13227	2.4		3		2.4		2.3		2.5		20		-		-		63		29.4		16.3		14.7	
14	AH-1602	5.2		-		14.7		7.7		6.2		53.8		-		-		22.4		12.4		14.4		0	
15	MH 25	-		13.9		18.6		-		-		13.8		-		-		6.2		0.2		4		-	
16	NRI MH4	-		-		-		4.4		-		96.1		-		-		65.2		6.2		-		-	
17	AH-7188	-		0.2		19.9		-		-		-		-		-		-		-		-		-	
18	QMH-1478	-		22.7		13.2		-		3.7		35		-		-		-		-		-		-	
19	IMH 1610	-		25.8		-		-		-		20.1		-		14.1		79.6		-		11.6		-	
20	NS 8181	-		21.5		4.9		-		-		27.1		-		-		-		-		-		-	
21	IMH 1533	-		-		-		-		-		2.3		-		-		8.3		-		-		-	
22	IMH 1527	18.9		8.1		-		6.4		3.2		10.9		-		-		39.4		39.8		21.9		8.4	
23	SVMH-55	-		-		14.2		10.6		-		-		-		-		11.3		-		-		-	
24	JH 15106	-		-		17		-		2		81.5		-		-		13.7		-		16.1		-	
25	BIO 274	4.8		1.9		-		-		-		30.1		12		1.2		10.9		-		-		1.8	
26	QMH-1435	-		-		-		4.3		-		33.1		-		-		-		-		-		-	
27	AH-1601	0.8		7.2		20.3		-		-		59.3		-		14.1		-		18.4		10.5		1.9	
28	JH 13023	3.2		7.4		26.8		23.5		15.9		56.3		-		-		67.2		21.4		19.5		10.5	
29	WH-1095	-		-		23		-		-		28.7		-		-		53.7		-		-		-	
30	DAS-MH-113	-		-		-		-		-		16.4		-		-		-		-		-		-	
31	MMH 1302	10.6		10.8		3.9		-		1.7		20.3		-		-		24.6		8.5		9.6		-	
32	QMH-1472	-		14.8		3.6		-		-		16.8		-		-		8.7		-		-		-	
33	CAH-1533	-		11.5		11.4		-		-		1.6		-		-		-		-		-		-	
34	RMH 815	-		31.9		21		-		10.5		39.4		-		-		26		20.8		-		-	
35	JH 15080	13.1		11.5		30.9		-		13.7		53.3		13.4		-		-		13		26		9.9	

TABLE No. 2 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9682 (C) NWPZ(ZN 2) LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	SABO	R	NEPZ ZN 3 MEAN	R
36	IMH 1608	-		-		17.8		-		-		44.9		-		-		-		-		-		-	
37	IMH 1547	-		7.7		10.5		-		-		114.2		0.8		-		9.5		26.4		-		-	
38	JH 15130	28.4		29.8		22.4		7		21.4		85.2		-		-		10.9		41.9		18.1		1.8	
39	JH 15011	21.3		-		18		12.2		12.5		125		-		-		65.7		1		-		-	
40	IMH 1601	-		7.6		20.1		-		1.2		64		-		-		4.4		4.6		-		-	
41	MH 26	-		-		32.5		-		-		32.3		-		-		9.4		2.5		-		-	
42	QMH-1470	-		1.9		28.9		-		3.5		-		-		-		-		-		-		-	
43	BIO 509	-		-		8		-		-		55.5		-		-		41.1		-		2.7		-	
44	AH-7005	-		-		6.8		-		-		11.7		-		-		-		10.8		-		-	
45	IMH 1607	-		-		0.8		-		-		57.2		-		-		77.5		-		-		-	
46	DAS-MH-112	-		5.3		14.8		21.2		10.3		10.7		-		-		73.3		-		-		-	
	CHECKS																								
47	BIO 9682 (C)	-		-		-		-		-		-		-		-		-		-		-		-	
48	CMH 08-287 (C)	24		11.2		-		16.7		9.9		64.2		7		-		-		43.1		40.1		14.8	
49	CMH 08-282 (C)	9.7		29.1		-		9.6		4.3		60.7		-		-		-		-		-		-	

TABLE No. 2 (Contd.)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9682 (C)							PZ ZN 4								CWZ ZN 5	OV'L	
		HYDE	R KARI	R DHAR	R MAND	R VAGA	R COIM	R RAHU	R MEAN	R UDAI	R BANS	R CHHI	R AMBI	R GODH	R JHAB	R MEAN	R MEAN	R
1	RMH 1601	-	-	11.9	53.2	35.7	22.5	30.5	20.2	-	37.7	-	90.9	110.5	80.5	30.2	20.1	
2	JH 13337	34.2	47.7	4.1	48.9	1.4	14.2	19.2	21.3	12.1	80.3	13.5	39.6	85.8	43.4	37.9	19.6	
3	IMH 1528	-	-	-	2.9	-	-	12.3	-	-	13	-	-	-	0.7	-	-	
4	AH-7210	-	-	-	6.8	9	-	-	-	11.7	20.8	-	-	26.5	-	0.4	-	
5	JH 13094	-	-	-	32.9	-	-	6.3	-	19	51.9	-	-	-	-	-	-	
6	MAH-14-5	-	18.9	-	23.3	-	-	37.4	2.2	-	50.5	7.8	30.5	28	12.8	18.6	0.7	
7	NS 8001	-	-	-	35.1	-	29.9	31.6	6.9	-	27.2	-	25.3	-	13.7	-	0.4	
8	JH 15004	-	30.8	0.9	34.1	8.8	19.2	4.7	10.5	30.4	40.5	11	24.5	-	43.1	16.6	6.6	
9	IMH 1526	-	-	11.3	32.2	0.5	9.8	25.9	5.9	-	28.9	0.6	3.1	-	37.7	-	3.3	
10	BIO 716	33.9	-	40.6	68.6	40.3	16.7	22.6	32.5	7.7	31.4	20.1	7.8	88	-	28.1	18.8	
11	IMH 1602	-	-	-	2.2	-	10.4	4.4	-	17.9	8.5	-	-	46.2	10.7	4.5	-	
12	JH 15135	26	61.5	-	17.1	33.4	51.8	23.8	25.8	-	70	15.2	50.1	1.7	31	22.4	18.5	
13	JH 13227	26.9	14.4	2.9	59.4	16.4	32	20.5	23.8	22.5	74.5	24	59.8	7.5	38.8	33.6	19.1	
14	AH-1602	21.8	16	-	23.7	3.6	37.8	17.7	15.1	15.7	80.6	9.2	31.7	-	50.9	16.6	10.4	
15	MH 25	7.1	45.6	-	26.3	-	30.3	14.8	10.4	7.1	31.8	-	-	-	-	-	0.9	
16	NRI MH4	-	-	-	-	-	4.8	35.4	-	-	52	-	-	-	-	-	-	
17	AH-7188	-	-	-	-	-	-	9.9	-	-	42.5	-	-	30.6	0.7	-	-	
18	QMH-1478	-	-	-	-	-	11.5	1.7	-	21.7	28.4	-	17.3	14.9	19.2	7.1	-	
19	IMH 1610	-	-	-	22.4	0.7	-	23.9	-	4	13.7	-	-	20.9	7.8	-	-	
20	NS 8181	2.9	-	16.9	74.8	-	8.5	33.5	15.3	37.1	105.4	-	-	-	29.5	3.8	2.6	
21	IMH 1533	-	-	-	30.5	-	-	-	-	5.7	40.5	-	-	-	-	-	-	
22	IMH 1527	12.1	2.8	-	18.2	-	5.3	18.8	3.8	39.1	43.8	3.6	1.6	0.2	2	14.5	6.7	
23	SVMH-55	-	-	-	34.1	-	-	2.7	-	28.7	43.4	-	-	44.1	-	9.5	-	
24	JH 15106	-	-	-	31.2	-	-	7.8	-	13.4	70.5	10	5.2	53.5	30.8	24.5	-	
25	BIO 274	11.5	-	41.2	55.4	16.5	20.2	-	22.2	62.7	67.3	10.7	48.4	105.8	41.8	49.4	18.3	
26	QMH-1435	-	-	-	-	8.7	8.6	0.5	-	-	48.5	-	-	-	-	-	-	
27	AH-1601	21.2	30.5	2.3	34.3	3.4	17.2	17.8	16.3	32	39.9	7.7	52.3	94.6	67.1	37.9	13.8	
28	JH 13023	0.6	13.6	0.9	30.1	-	21.9	19.9	11.2	36.2	52.2	-	20.8	50.9	26	23.6	14.5	
29	WH-1095	10.3	7.9	18.6	24.2	-	3.8	13.5	11.2	-	54.9	-	0.5	53.8	10.6	5.8	2.2	
30	DAS-MH-113	27.2	19.1	12.3	55.1	-	30	28.7	22.7	72.5	27.5	26	3.4	38.8	44.8	33.2	8	
31	MMH 1302	-	3.2	-	54	34.4	-	18	12	-	26.2	-	39.8	3	19.8	5.4	4.8	
32	QMH-1472	-	-	-	5.9	-	-	4.4	-	47.4	53.1	-	-	24.5	-	12.3	-	
33	CAH-1533	-	10.1	-	20.7	2.6	-	-	-	5.8	43.5	-	-	8.7	-	1.3	-	
34	RMH 815	18.5	13.6	19.2	39.8	-	22.5	23.7	18.4	12.8	49.8	3.9	52.3	30.8	51.8	24	12.5	
35	JH 15080	18.7	54.5	-	32.8	-	20.3	5	14.7	70.8	60.8	11.8	25.4	20.2	50	32.8	16.9	

TABLE No. 2 (Contd.)

		GRAIN YIELD % SUPERIORITY OVER THE BIO 9682 (C)														PZ ZN 4														CWZ ZN 5		OV'L	
Sl No	PEDIGREE	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	MEAN	R	MEAN	R
36	IMH 1608	-		-		-		-		-		-		3.6		-		-		9.7		-		-		-		-		-		-	
37	IMH 1547	12.4		10.9		-		25.5		-		12.5		3.8		2.9		63.2		78.5		-		-		2.4		24.9		17.5		2.6	
38	JH 15130	33.6		33.5		19.1		50.1		5.2		20.6		25.8		25.4		30.9		37.1		17.5		62.1		38.5		65		33.4		21.3	
39	JH 15011	4.9		8.3		-		29.7		14.5		13.3		18.8		9.9		25.3		30.2		16.3		24.4		79.1		41		31.3		12.3	
40	IMH 1601	-		-		9.9		-		-		24.4		53.9		3.2		1.7		51.2		-		-		26.4		24		-		-	
41	MH 26	-		-		-		3.8		-		14.1		15.2		-		-		13.1		-		0.4		0.3		6.4		-		-	
42	QMH-1470	-		-		-		-		-		17.4		23.2		-		9.1		42.8		-		-		20		19.4		0.6		-	
43	BIO 509	25		-		3.1		38		11.8		27.4		8.4		16.5		52.7		67.8		0.1		25.4		19.4		8.9		26		10.2	
44	AH-7005	-		-		-		15.3		-		5.2		24		-		-		24.1		1.8		15.5		18.3		50.3		6.2		-	
45	IMH 1607	1.4		-		-		23		-		-		14.8		-		47.5		43.2		-		-		29.9		-		7.8		-	
46	DAS-MH-112	2.6		-		-		65.6		6.1		17.5		42.5		16.9		18.2		29.2		5.7		30.7		45.4		-		21.7		11	
	CHECKS																																
47	BIO 9682 (C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
48	CMH 08-287 (C)	24.5		40.1		28.7		51.1		1.6		1.9		24.7		23		59.1		51.1		10.3		64.7		21.8		55.6		35.7		20.9	
49	CMH 08-282 (C)	-		19.8		-		11.7		-		15.7		31.6		7.5		17.5		32		18.8		22.4		17.2		41.8		20.6		5.8	

TABLE No. 2 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-287 (C) NWPZ(ZN 2) LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	SABO	R	NEPZ ZN 3 MEAN	R
1	RMH 1601	-		1.3		35.3		-		5.1		-		-		17.3		79.4		-		3.2		7.8	
2	JH 13337	-		5		33.7		-		-		-		5.4		-		57.4		-		-		-	
3	IMH 1528	-		-		20.5		-		-		7.6		-		13.5		42.1		-		-		-	
4	AH-7210	-		1.9		7.8		-		-		-		-		-		5.2		-		-		-	
5	JH 13094	-		10.2		28.2		-		-		0.4		-		19.9		1.8		-		-		-	
6	MAH-14-5	-		-		15.5		-		-		-		-		26.2		20.5		-		-		-	
7	NS 8001	-		-		27.1		-		1.4		-		-		15.4		21.5		-		-		-	
8	JH 15004	-		-		12.8		-		-		-		-		-		37.3		-		-		-	
9	IMH 1526	-		-		31		-		-		2.8		-		33.8		47.7		-		-		-	
10	BIO 716	-		0.1		15.2		7.1		2.9		-		-		-		19.9		-		-		-	
11	IMH 1602	-		-		13		-		-		28.1		-		17.3		36.8		-		-		-	
12	JH 15135	-		-		3.9		3.9		-		-		-		15.7		11.3		-		5.4		1.1	
13	JH 13227	-		-		14.3		-		-		-		-		22.7		66.9		-		-		2.6	
14	AH-1602	-		-		28		-		-		-		-		13.2		25.4		-		-		-	
15	MH 25	-		2.4		32.4		-		-		-		-		21.3		8.8		-		-		-	
16	NRI MH4	-		-		-		-		-		19.5		-		12.5		69.2		-		-		-	
17	AH-7188	-		-		33.8		-		-		-		-		25.9		-		-		-		-	
18	QMH-1478	-		10.4		26.4		-		-		-		-		1.2		-		-		-		-	
19	IMH 1610	-		13.1		9.9		-		-		-		-		47		83.9		-		-		-	
20	NS 8181	-		9.3		17.1		-		-		-		-		17.1		-		-		-		-	
21	IMH 1533	-		-		9.1		-		-		-		-		15.7		10.8		-		-		-	
22	IMH 1527	-		-		-		-		-		-		-		9.5		42.7		-		-		1.1	
23	SVMH-55	-		-		27.5		-		-		-		-		17.9		14		-		-		-	
24	JH 15106	-		-		30.6		-		-		10.6		-		3.3		16.4		-		-		-	
25	BIO 274	-		-		7.1		-		-		-		4.6		30.5		13.6		-		-		-	
26	QMH-1435	-		-		-		-		-		-		-		19.2		-		-		-		-	
27	AH-1601	-		-		34.3		-		-		-		-		47		-		-		-		-	
28	JH 13023	-		-		41.5		5.8		5.5		-		-		4.4		71.2		-		-		-	
29	WH-1095	-		-		37.3		-		-		-		-		20.5		57.4		-		-		-	
30	DAS-MH-113	-		-		11		-		-		-		-		-		-		-		-		-	
31	MMH 1302	-		-		16		-		-		-		-		-		27.6		-		-		-	
32	QMH-1472	-		3.2		15.6		-		-		-		-		3.4		11.3		-		-		-	
33	CAH-1533	-		0.2		24.3		-		-		-		-		18.4		-		-		-		-	
34	RMH 815	-		18.6		35.1		-		0.6		-		-		-		29		-		-		-	
35	JH 15080	-		0.2		46.1		-		3.5		-		6		19.7		-		-		-		-	

TABLE No. 2 (Contd.

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-287 (C) NWPZ(ZN 2) LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	SABO	R	NEPZ ZN 3 MEAN	R
36	IMH 1608	-		-		31.5		-		-		-		-		-		1.9		-		-		-	
37	IMH 1547	-		-		23.3		-		-		30.5		-		-		12.1		-		-		-	
38	JH 15130	3.6		16.7		36.6		-		10.4		12.8		-		-		13.5		-		-		-	
39	JH 15011	-		-		31.7		-		2.4		37.1		-		11.9		69.6		-		-		-	
40	IMH 1601	-		-		34		-		-		-		-		5.9		6.9		-		-		-	
41	MH 26	-		-		47.9		-		-		-		-		20.4		12		-		-		-	
42	QMH-1470	-		-		43.9		-		-		-		-		-		-		-		-		-	
43	BIO 509	-		-		20.6		-		-		-		-		20.1		44.5		-		-		-	
44	AH-7005	-		-		19.2		-		-		-		-		-		-		-		-		-	
45	IMH 1607	-		-		12.5		-		-		-		-		23.7		81.7		-		-		-	
46	DAS-MH-112	-		-		28.1		3.9		0.3		-		-		8.5		77.5		-		-		-	
	CHECKS																								
47	BIO 9682 (C)	-		-		11.6		-		-		-		-		28.8		2.4		-		-		-	
48	CMH 08-287 (C)	-		-		-		-		-		-		-		-		-		-		-		-	
49	CMH 08-282 (C)	-		16.1		-		-		-		-		-		-		-		-		-		-	

TABLE No. 2 (Contd.

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-287 (C) HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	PZ ZN 4 MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	RMH 1601	-		-		-		1.4		33.6		20.1		4.7		-		-		-		-		15.9		72.8		16		-		0.5	
2	JH 13337	7.8		5.4		-		-		-		12.1		-		-		-		19.3		2.9		-		52.5		-		1.5		-	
3	IMH 1528	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
4	AH-7210	-		-		-		-		7.3		-		-		-		-		-		-		-		3.8		-		-		-	
5	JH 13094	-		-		-		-		-		-		-		-		-		0.5		-		-		-		-		-		-	
6	MAH-14-5	-		-		-		-		-		-		10.2		-		-		-		-		-		5.1		-		-		-	
7	NS 8001	-		-		-		-		-		27.5		5.5		-		-		-		-		-		-		-		-		-	
8	JH 15004	-		-		-		-		7.1		17		-		-		-		-		0.6		-		-		-		-		-	
9	IMH 1526	-		-		-		-		-		7.7		1		-		-		-		-		-		-		-		-		-	
10	BIO 716	7.5		-		9.3		11.6		38.2		14.5		-		7.7		-		-		8.9		-		54.3		-		-		-	
11	IMH 1602	-		-		-		-		-		8.4		-		-		-		-		-		-		20		-		-		-	
12	JH 15135	1.2		15.3		-		-		31.4		48.9		-		2.3		-		12.6		4.4		-		-		-		-		-	
13	JH 13227	1.9		-		-		5.5		14.7		29.5		-		0.7		-		15.5		12.4		-		-		-		-		-	
14	AH-1602	-		-		-		-		2.1		35.2		-		-		-		19.6		-		-		-		-		-		-	
15	MH 25	-		3.9		-		-		-		27.8		-		-		-		-		-		-		-		-		-		-	
16	NRI MH4	-		-		-		-		-		2.8		8.6		-		-		0.6		-		-		-		-		-		-	
17	AH-7188	-		-		-		-		-		-		-		-		-		-		-		-		7.2		-		-		-	
18	QMH-1478	-		-		-		-		-		9.4		-		-		-		-		-		-		-		-		-		-	
19	IMH 1610	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
20	NS 8181	-		-		-		15.7		-		6.5		7.1		-		-		36		-		-		-		-		-		-	
21	IMH 1533	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
22	IMH 1527	-		-		-		-		-		3.4		-		-		-		-		-		-		-		-		-		-	
23	SVMH-55	-		-		-		-		-		-		-		-		-		-		-		-		18.3		-		-		-	
24	JH 15106	-		-		-		-		-		-		-		-		-		12.9		-		-		26		-		-		-	
25	BIO 274	-		-		9.7		2.9		14.7		17.9		-		-		2.3		10.8		0.4		-		68.9		-		10.1		-	
26	QMH-1435	-		-		-		-		7		6.5		-		-		-		-		-		-		-		-		-		-	
27	AH-1601	-		-		-		-		1.8		15		-		-		-		-		-		-		59.7		7.4		1.6		-	
28	JH 13023	-		-		-		-		-		19.6		-		-		-		0.8		-		-		23.9		-		-		-	
29	WH-1095	-		-		-		-		-		1.8		-		-		-		2.5		-		-		26.2		-		-		-	
30	DAS-MH-113	2.2		-		-		2.7		-		27.5		3.3		-		8.4		-		14.3		-		13.9		-		-		-	
31	MMH 1302	-		-		-		1.9		32.3		-		-		-		-		-		-		-		-		-		-		-	
32	QMH-1472	-		-		-		-		-		-		-		-		-		1.4		-		-		2.2		-		-		-	
33	CAH-1533	-		-		-		-		1		-		-		-		-		-		-		-		-		-		-		-	
34	RMH 815	-		-		-		-		-		20.2		-		-		-		-		-		-		7.4		-		-		-	
35	JH 15080	-		10.2		-		-		-		18		-		-		7.4		6.4		1.4		-		-		-		-		-	

TABLE No. 2 (Contd.

		GRAIN YIELD % SUPERIORITY OVER THE CMH 08-287 (C)														PZ														CWZ			
Sl																ZN 4														ZN 5		OV'L	
No	PEDIGREE	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	MEAN	R	MEAN	R
36	IMH 1608	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
37	IMH 1547	-		-		-		-		-		10.4		-		-		2.6		18.2		-		-		-		-		-		-	
38	JH 15130	7.3		-		-		-		3.6		18.3		0.9		2		-		-		6.5		-		13.7		6		-		1.9	
39	JH 15011	-		-		-		-		12.7		11.1		-		-		-		-		5.4		-		47		-		-		-	
40	IMH 1601	-		-		-		-		-		22.1		23.5		-		-		0.1		-		-		3.7		-		-		-	
41	MH 26	-		-		-		-		-		12		-		-		-		-		-		-		-		-		-		-	
42	QMH-1470	-		-		-		-		-		15.1		-		-		-		-		-		-		-		-		-		-	
43	BIO 509	0.4		-		-		-		10.1		25		-		-		-		11		-		-		-		-		-		-	
44	AH-7005	-		-		-		-		-		3.2		-		-		-		-		-		-		-		-		-		-	
45	IMH 1607	-		-		-		-		-		-		-		-		-		-		-		-		6.6		-		-		-	
46	DAS-MH-112	-		-		-		9.6		4.4		15.2		14.3		-		-		-		-		-		19.4		-		-		-	
	CHECKS																																
47	BIO 9682 (C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
48	CMH 08-287 (C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
49	CMH 08-282 (C)	-		-		-		-		-		13.5		5.5		-		-		-		7.7		-		-		-		-		-	

TABLE No. 2 (Contd.

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-282 (C) NWPZ(ZN 2) LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	SABO	NEPZ ZN 3 R	MEAN	R
1	RMH 1601	6.7		-		59.7		0.8		10.8		-		-		24.8		98		18.2		45.9		40.5	
2	JH 13337	-		-		57.8		-		5.4		0.3		24.7		-		73.7		15		20.5		20.8	
3	IMH 1528	-		-		42.2		-		-		9.9		-		20.7		56.8		-		-		-	
4	AH-7210	-		-		27.2		-		-		-		-		-		16.1		11.1		-		-	
5	JH 13094	-		-		51.2		-		-		2.6		-		27.5		12.4		-		-		-	
6	MAH-14-5	-		-		36.3		-		-		-		-		34.2		33		-		-		6.1	
7	NS 8001	6.2		-		49.9		-		6.9		-		-		22.7		34.1		-		-		1.1	
8	JH 15004	-		-		33.2		-		-		-		-		3.3		51.5		3.4		8.7		11.9	
9	IMH 1526	-		-		54.6		-		0.4		5.1		-		42.3		63		15.7		0.6		23.1	
10	BIO 716	3		-		35.9		14.1		8.5		-		1		-		32.3		4.1		-		-	
11	IMH 1602	-		-		33.4		-		-		30.9		-		24.7		51		-		-		-	
12	JH 15135	2.3		-		22.6		10.6		4.4		-		-		23		22.9		21.5		48.9		31.6	
13	JH 13227	-		-		34.9		-		-		-		6.3		30.5		84.2		31.7		17.4		33.7	
14	AH-1602	-		-		51.1		-		1.9		-		-		20.3		38.3		14.4		15.4		19.4	
15	MH 25	-		-		56.2		-		-		-		-		29		20		2		4.9		11.7	
16	NRI MH4	-		-		8.5		-		-		22.1		-		19.6		86.7		8.1		-		14.2	
17	AH-7188	-		-		57.9		-		-		-		-		33.9		6.3		-		-		0.6	
18	QMH-1478	-		-		49.2		-		-		-		-		7.6		0.7		-		-		-	
19	IMH 1610	-		-		29.7		-		-		-		-		56.3		102.9		-		12.5		29.8	
20	NS 8181	-		-		38.1		-		-		-		-		24.5		-		-		-		-	
21	IMH 1533	-		-		28.7		-		-		-		-		23		22.3		-		-		-	
22	IMH 1527	8.4		-		8.1		-		-		-		-		16.4		57.5		42.3		22.9		31.7	
23	SVMH-55	-		-		50.5		0.9		-		-		-		25.4		25.8		-		-		-	
24	JH 15106	-		-		54.1		-		-		13		-		9.8		28.4		-		17.1		9.1	
25	BIO 274	-		-		26.4		-		-		-		23.8		38.7		25.3		-		0.4		9.7	
26	QMH-1435	-		-		9.4		-		-		-		-		26.8		1.5		-		-		-	
27	AH-1601	-		-		58.5		-		-		-		-		56.4		-		20.6		11.5		21.3	
28	JH 13023	-		-		67		12.7		11.2		-		2.8		11.1		88.9		23.5		20.5		28.7	
29	WH-1095	-		-		62.1		-		-		-		-		28.2		73.7		-		-		11.1	
30	DAS-MH-113	-		-		31		-		-		-		-		-		-		-		-		-	
31	MMH 1302	0.9		-		36.9		-		-		-		-		1		40.8		10.4		10.5		12.5	
32	QMH-1472	-		-		36.4		-		-		-		-		10		22.8		-		-		-	
33	CAH-1533	-		-		46.7		-		-		-		-		25.9		-		-		-		-	
34	RMH 815	-		2.2		59.4		-		6		-		-		-		42.4		23		-		10.4	
35	JH 15080	3.1		-		72.5		-		9.1		-		25.4		27.3		6.3		15		27.1		20.9	

TABLE No. 2 (Contd.

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-282 (C) NWPZ(ZN 2) LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	SABO	R	NEPZ ZN 3 MEAN	R
36	IMH 1608	-		-		55.2		-		-		-		-		-		12.4		-		-		-	
37	IMH 1547	-		-		45.5		-		-		33.3		11.5		-		23.7		28.7		-		1.9	
38	JH 15130	17		0.6		61.2		-		16.4		15.2		-		6.2		25.3		44.4		19.2		24.2	
39	JH 15011	10.5		-		55.4		2.3		7.9		40.1		-		19		87.2		2.9		-		16.7	
40	IMH 1601	-		-		58.2		-		-		2.1		1.6		12.6		18		6.5		-		0.8	
41	MH 26	-		-		74.5		-		-		-		-		28.1		23.6		4.4		-		-	
42	QMH-1470	-		-		69.8		-		-		-		-		-		7.9		-		-		-	
43	BIO 509	-		-		42.3		-		-		-		-		27.7		59.4		-		3.6		14.4	
44	AH-7005	-		-		40.7		-		-		-		-		5.5		5.8		12.8		-		2	
45	IMH 1607	-		-		32.7		-		-		-		-		31.6		100.6		-		-		7.2	
46	DAS-MH-112	-		-		51.2		10.6		5.8		-		-		15.4		95.8		-		-		10.5	
	CHECKS																								
47	BIO 9682 (C)	-		-		31.7		-		-		-		10.6		37		13		1.8		0.9		11.1	
48	CMH 08-287 (C)	13		-		18		6.5		5.4		2.2		18.3		6.3		10.4		45.7		41.3		30.2	
49	CMH 08-282 (C)	-		-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 2 (Contd.

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-282 (C) HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	PZ ZN 4 MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	RMH 1601	-		-		16.1		37.1		49.6		5.9		-		11.8		-		4.3		-		55.9		79.7		27.3		8		14.7	
2	JH 13337	35.8		23.3		8		33.3		11.7		-		-		12.8		-		36.6		-		14		58.6		1.1		14.3		12.6	
3	IMH 1528	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
4	AH-7210	-		-		-		-		20.2		-		-		-		-		-		-		-		7.9		-		-		-	
5	JH 13094	-		-		-		19		-		-		-		-		1.2		15.1		-		-		-		-		-		-	
6	MAH-14-5	-		-		-		10.4		-		-		4.4		-		-		14		-		6.6		9.3		-		-		-	
7	NS 8001	-		-		-		21		5.3		12.3		-		-		-		-		-		2.3		-		-		-		-	
8	JH 15004	-		9.1		4.6		20.1		19.9		3.1		-		2.7		10.9		6.4		-		1.6		-		1		-		1.5	
9	IMH 1526	-		-		15.4		18.4		10.7		-		-		-		-		-		-		-		-		-		-		-	
10	BIO 716	35.4		-		45.8		50.9		54.7		0.9		-		23.2		-		-		1.1		-		60.4		-		6.2		12.8	
11	IMH 1602	-		-		-		-		-		-		-		-		0.3		-		-		-		24.8		-		-		-	
12	JH 15135	27.4		34.8		-		4.8		47.1		31.2		-		17		-		28.8		-		22.6		-		-		1.5		12.6	
13	JH 13227	28.4		-		6.7		42.7		28.4		14.2		-		15.2		4.2		32.2		4.4		30.5		-		-		10.8		12.9	
14	AH-1602	23.1		-		-		10.7		14.3		19.1		-		7.1		-		36.8		-		7.6		-		6.4		-		5.2	
15	MH 25	8.3		21.5		-		13		-		12.6		-		2.7		-		-		-		-		-		-		-		-	
16	NRI MH4	-		-		-		-		-		-		2.9		-		-		15.1		-		-		-		-		-		-	
17	AH-7188	-		-		-		-		-		-		-		-		-		7.9		-		-		11.5		-		-		-	
18	QMH-1478	-		-		0.6		-		3.4		-		-		-		3.6		-		-		-		-		-		-		-	
19	IMH 1610	-		-		-		9.6		11		-		-		-		-		-		-		-		3.2		-		-		-	
20	NS 8181	4		-		21.2		56.5		-		-		1.4		7.2		16.7		55.6		-		-		-		-		-		-	
21	IMH 1533	-		-		-		16.9		-		-		-		-		-		6.5		-		-		-		-		-		-	
22	IMH 1527	13.4		-		-		5.8		-		-		-		-		18.4		9		-		-		-		-		-		1.6	
23	SVMH-55	-		-		-		20.1		-		-		-		-		9.5		8.6		-		-		23		-		-		-	
24	JH 15106	-		-		-		17.4		4.3		-		-		-		-		29.1		-		-		31		-		3.3		-	
25	BIO 274	12.7		-		46.4		39.1		28.5		3.9		-		13.7		38.5		26.8		-		21.2		75.6		0		23.9		11.4	
26	QMH-1435	-		-		-		-		19.8		-		-		-		-		12.5		-		-		-		-		-		-	
27	AH-1601	22.6		8.9		6.1		20.2		13.9		1.3		-		8.1		12.3		6		-		24.4		66.1		17.9		14.3		8.5	
28	JH 13023	1.7		-		4.6		16.5		6.6		5.4		-		3.4		15.9		15.3		-		-		28.8		-		2.5		8.5	
29	WH-1095	11.5		-		23		11.1		9.6		-		-		3.4		-		17.3		-		-		31.2		-		-		-	
30	DAS-MH-113	28.7		-		16.5		38.8		2.6		12.4		-		14.1		46.8		-		6.1		-		18.4		2.1		10.4		2.7	
31	MMH 1302	-		-		1.3		37.8		48.2		-		-		4.1		-		-		-		14.2		-		-		-		-	
32	QMH-1472	-		-		0.7		-		6.6		-		-		-		25.5		16		-		-		6.2		-		-		-	
33	CAH-1533	-		-		-		8		13.1		-		-		-		-		8.7		-		-		-		-		-		-	
34	RMH 815	19.8		-		23.6		25.2		1.8		5.9		-		10.1		-		13.5		-		24.3		11.7		7		2.8		7.6	
35	JH 15080	20		28.9		-		18.9		5.5		4		-		6.6		45.4		21.8		-		2.4		2.6		5.8		10.1		9.9	

TABLE No. 2 (Contd.

		GRAIN YIELD % SUPERIORITY OVER THE CMH 08-282 (C)														PZ														CWZ			
Sl																ZN 4														ZN 5		OV'L	
No	PEDIGREE	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	MEAN	R	MEAN	R
36	IMH 1608	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
37	IMH 1547	13.6		-		-		12.3		-		-		-		-		38.9		35.2		-		-		-		-		-		-	
38	JH 15130	35.1		11.4		23.5		34.4		16		4.2		-		16.7		11.4		3.9		-		32.4		18.2		16.4		10.6		16.3	
39	JH 15011	6.1		-		-		16.1		26.2		-		-		2.2		6.6		-		-		1.6		52.8		-		8.8		7	
40	IMH 1601	-		-		14		-		-		7.6		17		-		-		14.5		-		-		7.8		-		-		-	
41	MH 26	-		-		-		-		1.1		-		-		-		-		-		-		-		-		-		-		-	
42	QMH-1470	-		-		-		-		-		1.5		-		-		-		8.2		-		-		2.4		-		-		-	
43	BIO 509	26.4		-		6.9		23.6		23.3		10.1		-		8.3		30		27.1		-		2.4		1.9		-		4.5		5	
44	AH-7005	-		-		-		3.2		6.2		-		-		-		-		-		-		-		0.9		6		-		-	
45	IMH 1607	2.6		-		-		10.1		8.5		-		-		-		25.5		8.5		-		-		10.9		-		-		-	
46	DAS-MH-112	3.8		-		0.8		48.2		16.9		1.5		8.3		8.7		0.6		-		-		6.7		24.1		-		0.9		6.5	
	CHECKS																																
47	BIO 9682 (C)	1.1		-		3.7		-		10.2		-		-		-		-		-		-		-		-		-		-		-	
48	CMH 08-287 (C)	25.9		16.9		33.4		35.2		12		-		-		14.4		35.4		14.4		-		34.5		4		9.8		12.5		14.1	
49	CMH 08-282 (C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 2 (Contd.)

		MOISTURE % AT HARVEST				NWPZ							NEPZ
						ZN 2							ZN 3
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	Mean
1	RMH 1601	21.1	23.7	16.7	27.6	22.3	20.2	24.8	18.6	35.0	24.0	28.1	25.1
2	JH 13337	16.2	25.2	15.7	28.5	21.4	18.0	24.4	19.6	36.6	25.0	28.1	25.3
3	IMH 1528	16.4	21.9	15.0	27.3	20.1	18.8	24.4	18.2	29.7	24.7	28.5	24.0
4	AH-7210	16.7	23.3	15.0	26.6	20.4	19.0	24.2	19.6	31.8	23.7	26.6	24.1
5	JH 13094	14.7	23.2	15.0	27.4	20.1	19.6	25.5	18.9	36.9	23.8	28.9	25.6
6	MAH-14-5	20.4	24.2	15.3	28.3	22.0	19.1	25.1	18.6	32.8	24.7	25.6	24.3
7	NS 8001	20.4	23.1	15.0	24.8	20.8	20.3	26.5	18.2	37.5	25.9	27.4	25.9
8	JH 15004	19.5	24.3	14.7	28.3	21.7	19.3	25.3	18.6	35.7	28.0	28.1	25.8
9	IMH 1526	18.7	21.6	15.7	28.4	21.1	19.8	25.8	18.6	32.6	25.2	28.7	25.1
10	BIO 716	18.6	24.7	14.3	28.7	21.6	20.1	25.2	18.9	32.9	22.9	27.7	24.6
11	IMH 1602	15.1	23.3	15.3	25.2	19.7	19.5	24.9	18.2	32.1	23.9	25.8	24.0
12	JH 15135	16.5	21.3	14.3	26.0	19.5	19.0	24.8	18.6	35.4	27.0	28.5	25.5
13	JH 13227	18.0	21.4	15.0	27.3	20.4	19.2	24.6	19.6	36.7	25.9	29.1	25.8
14	AH-1602	17.1	22.0	16.3	27.8	20.8	19.8	25.4	19.3	35.4	25.3	27.8	25.5
15	MH 25	14.7	22.6	14.7	27.2	19.8	20.8	23.5	18.3	32.6	24.6	27.0	24.5
16	NRI MH4	19.9	24.7	15.0	26.3	21.5	17.6	-	19.9	31.8	26.3	28.2	24.8
17	AH-7188	14.0	21.8	15.7	27.7	19.8	20.4	25.0	18.8	30.3	25.0	24.4	24.0
18	QMH-1478	16.2	21.9	14.7	28.0	20.2	18.0	24.3	18.9	35.3	24.1	29.2	24.9
19	IMH 1610	15.6	21.6	15.7	33.0	21.5	19.0	25.8	18.9	33.2	25.5	30.6	25.5
20	NS 8181	17.2	22.2	15.3	27.3	20.5	19.8	24.8	18.6	36.6	23.8	28.9	25.4
21	IMH 1533	16.0	24.5	14.7	25.0	20.0	17.6	25.2	18.6	28.9	24.8	28.3	23.9
22	IMH 1527	16.6	22.1	15.3	28.3	20.6	19.2	26.0	19.6	35.3	26.9	26.7	25.6
23	SVMH-55	20.8	22.6	15.0	27.8	21.5	18.7	25.5	18.9	36.1	26.8	28.3	25.7
24	JH 15106	20.6	22.5	14.7	28.3	21.5	19.7	24.3	18.2	36.7	23.3	28.3	25.1
25	BIO 274	15.9	23.9	15.3	27.4	20.6	18.0	25.8	18.6	33.7	23.9	29.1	24.8
26	QMH-1435	13.9	24.6	15.3	23.3	19.3	19.0	25.0	19.0	32.9	23.8	27.1	24.4
27	AH-1601	13.9	22.1	16.0	27.0	19.7	18.5	24.9	19.0	37.9	27.2	23.6	25.2
28	JH 13023	18.5	23.2	17.3	26.8	21.4	18.7	26.6	19.3	36.6	26.4	29.0	26.1
29	WH-1095	15.0	21.5	16.3	26.4	19.8	17.7	24.5	19.2	29.6	24.0	27.5	23.7
30	DAS-MH-113	19.6	21.8	16.3	27.2	21.2	19.4	24.6	18.6	35.6	25.7	28.2	25.3
31	MMH 1302	19.9	22.5	16.3	27.9	21.6	20.2	25.1	18.9	33.2	24.8	28.0	25.0
32	QMH-1472	16.0	24.5	16.3	24.9	20.4	19.3	24.9	19.6	30.3	23.0	26.7	24.0
33	CAH-1533	16.4	22.3	16.0	26.4	20.3	17.1	25.5	19.6	28.0	24.2	28.5	23.8
34	RMH 815	16.0	21.3	15.3	27.0	19.9	20.0	25.9	19.9	32.1	25.7	29.0	25.4

TABLE No. 2 (Contd.)

S.No.	PEDIGREE	MOISTURE % AT HARVEST NWPZ LUDH	KARN	KANP	PANT	ZN 2 Mean	DHOL	RANC	BHUB	NEPZ VARA	BAHR	SABO	ZN 3 Mean
35	JH 15080	16.6	22.4	14.7	28.9	20.7	17.0	25.0	18.3	32.9	27.4	28.0	24.7
36	IMH 1608	15.3	22.4	15.7	25.9	19.8	18.1	24.3	19.5	37.2	26.9	28.2	25.7
37	IMH 1547	15.3	22.6	15.7	27.8	20.3	19.8	26.0	18.3	34.2	26.1	26.8	25.2
38	JH 15130	19.8	20.6	16.0	28.7	21.3	20.6	25.5	18.6	36.9	26.8	27.6	26.0
39	JH 15011	18.5	21.2	15.7	28.6	21.0	19.5	24.3	18.2	32.4	27.0	29.2	25.1
40	IMH 1601	17.2	21.2	16.7	28.2	20.8	19.8	25.4	18.6	33.2	24.2	28.3	24.9
41	MH 26	14.8	22.3	17.0	26.1	20.0	17.3	24.1	19.3	37.2	25.0	26.4	24.9
42	QMH-1470	15.1	21.6	15.7	26.7	19.8	17.1	25.7	19.0	31.8	22.9	28.3	24.1
43	BIO 509	20.2	23.2	15.0	27.2	21.4	19.3	26.0	18.2	37.9	27.1	28.4	26.1
44	AH-7005	16.4	21.6	15.7	25.6	19.8	20.9	25.0	18.6	31.6	26.0	25.4	24.6
45	IMH 1607	18.4	22.8	15.0	27.8	21.0	20.8	24.3	19.3	33.0	23.9	26.4	24.6
46	DAS-MH-112	20.4	22.2	13.0	27.9	20.9	19.9	25.6	19.0	33.9	26.1	30.3	25.8
	CHECKS												
47	BIO 9682 (C)	15.8	21.4	14.7	27.8	19.9	22.2	24.9	18.6	32.9	24.3	26.6	24.9
48	CMH 08-287 (C)	18.3	22.9	16.0	28.7	21.5	17.6	26.0	19.0	37.4	27.8	28.0	26.0
49	CMH 08-282 (C)	15.4	22.9	16.3	26.8	20.3	19.4	25.9	18.6	37.1	24.9	28.6	25.7
	Loc. Mean	**17.2**	**22.6**	**15.5**	**27.3**	**20.6**	**19.2**	**25.1**	**18.9**	**34.0**	**25.2**	**27.8**	**25.0**
	C.D. (5%)	1.46	0.32	1.52	1.34	2.02	2.37	1.98	-	3.60	1.06	3.08	1.58
	C.V. (%)	5.24	0.86	6.05	3.03	7.00	7.65	3.88	-	6.54	2.60	6.84	5.56
	F (Prob)	0.00	0.00	0.00	0.00	0.40	0.01	0.56	0.00	0.00	0.00	0.05	0.04

TABLE No. 2 (Contd.)

		MOISTURE % AT HARVEST							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	RMH 1601	24.1	19.2	18.2	18.5	17.7	24.0	16.8	19.8	20.6	17.6	17.2	17.6	16.2	19.5	18.1	21.2
2	JH 13337	24.4	19.8	22.4	16.9	16.4	21.7	15.0	19.5	20.4	17.8	19.2	14.4	16.3	19.6	17.9	20.9
3	IMH 1528	23.2	21.6	15.0	17.2	16.8	21.4	14.9	18.5	17.3	17.4	17.6	15.8	18.4	20.1	17.8	20.1
4	AH-7210	22.7	20.0	18.1	16.4	16.4	22.7	13.1	18.5	19.6	17.8	15.5	14.2	18.3	18.4	17.3	20.0
5	JH 13094	24.9	20.5	16.6	15.9	17.0	21.2	14.8	18.7	20.5	16.6	12.0	14.2	16.8	19.7	16.6	20.2
6	MAH-14-5	25.5	22.7	18.6	18.0	16.7	25.8	14.2	20.2	18.1	17.5	20.9	13.0	17.1	20.8	17.9	21.0
7	NS 8001	25.8	24.1	16.4	16.7	17.0	23.7	14.5	19.7	19.3	17.0	16.8	14.9	17.1	21.0	17.7	21.0
8	JH 15004	26.0	21.2	15.2	17.2	16.8	22.1	13.7	18.9	21.1	17.4	20.2	15.5	14.6	19.5	18.0	21.0
9	IMH 1526	24.8	21.6	19.7	17.7	16.8	24.6	15.6	20.1	18.7	16.7	15.6	14.1	16.2	18.8	16.7	20.7
10	BIO 716	25.5	20.9	17.3	17.9	17.1	24.1	15.2	19.7	20.3	17.4	18.4	13.3	17.1	19.9	17.7	20.8
11	IMH 1602	23.0	18.6	13.0	17.2	17.0	20.7	13.4	17.5	21.4	17.0	18.4	13.2	16.2	19.4	17.6	19.6
12	JH 15135	24.7	20.3	17.3	16.4	17.1	22.6	13.4	18.8	20.5	17.7	17.9	14.6	16.8	19.3	17.8	20.4
13	JH 13227	25.0	19.8	21.2	18.7	17.3	20.2	14.2	19.4	18.6	18.2	19.2	15.4	15.4	18.8	17.6	20.8
14	AH-1602	24.4	20.4	17.9	17.1	16.8	21.4	14.3	18.9	17.3	17.5	18.0	14.7	18.2	19.6	17.6	20.6
15	MH 25	23.6	18.0	17.8	16.5	17.1	21.0	14.0	18.3	19.5	17.7	15.0	16.5	15.8	19.5	17.3	19.9
16	NRI MH4	23.7	19.2	17.2	-	17.0	22.4	13.4	18.8	19.1	18.4	17.3	17.4	16.2	21.5	18.3	20.6
17	AH-7188	20.4	18.5	15.3	15.8	16.8	20.1	14.6	17.3	18.5	17.5	14.6	13.4	15.4	19.4	16.5	19.3
18	QMH-1478	24.1	21.4	15.7	16.9	16.7	20.9	14.9	18.6	20.9	17.8	17.6	17.2	17.2	18.6	18.2	20.4
19	IMH 1610	24.7	22.0	15.7	19.0	17.0	23.2	15.5	19.6	19.9	17.8	19.4	17.1	15.4	20.0	18.3	21.1
20	NS 8181	23.8	21.6	20.2	17.1	17.1	21.5	15.3	19.5	20.4	18.5	13.9	15.6	16.0	18.7	17.2	20.6
21	IMH 1533	24.8	22.6	17.3	16.6	17.4	22.4	14.0	19.3	20.0	18.1	14.7	14.8	17.2	20.8	17.6	20.2
22	IMH 1527	26.2	20.8	17.0	18.3	16.3	22.2	15.5	19.4	20.2	18.4	14.9	15.4	17.6	20.4	17.8	20.8
23	SVMH-55	24.5	22.1	16.3	17.2	17.8	20.0	13.9	18.8	19.1	17.0	17.2	13.9	15.7	21.7	17.4	20.7
24	JH 15106	22.0	20.8	16.7	17.4	16.0	22.4	15.2	18.6	19.4	18.2	18.3	16.4	15.1	19.3	17.8	20.6
25	BIO 274	25.5	21.1	14.4	16.1	16.6	23.7	15.3	19.0	19.4	17.5	16.9	13.5	16.3	20.8	17.4	20.4
26	QMH-1435	22.0	18.8	14.6	16.1	16.8	19.0	13.4	17.2	19.3	17.6	13.7	14.6	17.2	18.5	16.8	19.4
27	AH-1601	23.9	19.5	13.7	18.4	17.3	21.6	14.3	18.4	21.2	17.6	18.4	13.4	17.2	18.4	17.7	20.2
28	JH 13023	25.8	22.9	17.7	17.5	17.4	21.3	16.1	19.8	18.8	17.4	18.8	15.5	16.2	20.9	17.9	21.2
29	WH-1095	22.1	19.8	13.1	15.9	16.2	16.1	14.4	16.8	18.7	17.6	18.2	15.3	16.0	20.5	17.7	19.4
30	DAS-MH-113	25.3	22.7	15.2	19.6	18.0	26.0	14.8	20.2	18.5	17.8	18.8	14.9	16.1	20.7	17.8	21.1
31	MMH 1302	25.1	20.1	21.5	18.9	17.3	24.2	14.7	20.3	19.6	17.8	16.0	15.7	14.3	20.9	17.4	21.0
32	QMH-1472	24.8	19.8	15.7	17.0	16.6	23.9	14.1	18.8	20.9	17.8	14.3	13.7	16.2	19.1	17.0	20.0
33	CAH-1533	24.5	21.3	16.8	17.8	16.1	21.2	15.4	19.0	20.2	17.8	20.0	16.5	17.3	20.3	18.7	20.4
34	RMH 815	26.4	20.2	14.6	16.5	16.5	20.9	13.8	18.4	19.9	17.0	18.2	16.8	15.8	20.8	18.1	20.4

TABLE No. 2 (Contd.)

S.No.	PEDIGREE	MOISTURE % AT HARVEST HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
35	JH 15080	25.4	19.1	17.2	16.2	17.9	20.2	14.6	18.6	19.5	17.7	17.2	13.2	17.2	19.1	17.3	20.2
36	IMH 1608	26.9	23.4	13.2	15.1	16.6	21.7	15.7	18.9	20.9	17.7	13.6	13.3	14.4	19.9	16.7	20.2
37	IMH 1547	25.0	22.4	19.8	16.9	16.6	23.2	14.5	19.8	20.5	17.3	16.3	15.9	15.4	18.5	17.3	20.6
38	JH 15130	26.1	21.6	15.9	17.1	17.3	24.0	14.3	19.5	19.0	17.2	19.2	16.0	14.8	20.5	17.8	21.0
39	JH 15011	27.8	22.4	16.6	17.0	16.9	23.0	14.5	19.7	18.7	17.6	20.3	13.8	18.1	20.4	18.2	20.9
40	IMH 1601	25.6	21.9	16.3	18.0	17.3	21.1	17.2	19.6	17.8	17.8	18.7	16.2	18.2	18.7	17.9	20.7
41	MH 26	23.4	16.7	16.1	16.1	16.1	18.3	13.6	17.1	21.9	17.2	15.6	16.4	17.0	18.5	17.8	19.8
42	QMH-1470	23.3	23.0	18.7	15.9	17.0	22.9	13.6	19.2	20.2	17.7	18.9	13.6	15.2	18.8	17.4	20.1
43	BIO 509	25.4	22.2	17.8	16.4	16.3	25.2	15.1	19.8	20.3	17.0	18.5	13.2	16.2	20.1	17.5	21.1
44	AH-7005	26.0	19.5	18.4	16.9	17.7	21.4	13.3	19.0	19.7	18.2	17.8	13.2	16.3	19.2	17.4	20.2
45	IMH 1607	25.1	21.6	14.5	16.4	16.8	25.0	15.8	19.3	17.4	17.1	17.6	15.9	16.2	18.7	17.1	20.4
46	DAS-MH-112	25.7	22.2	22.2	18.9	18.4	23.1	17.5	21.1	21.1	18.1	20.5	14.6	16.2	20.6	18.5	21.6
	CHECKS																
47	BIO 9682 (C)	25.6	19.1	15.8	16.9	18.0	25.1	14.3	19.2	21.0	17.1	18.0	14.7	16.2	20.5	17.9	20.5
48	CMH 08-287 (C)	27.4	19.1	15.4	18.7	16.9	21.9	13.9	19.0	20.8	18.1	18.0	13.4	16.3	20.5	17.8	20.9
49	CMH 08-282 (C)	24.8	21.4	17.1	17.6	17.0	22.3	14.5	19.2	19.5	17.2	17.9	15.2	15.4	21.2	17.7	20.7
	Loc. Mean	**24.7**	**20.8**	**16.9**	**17.2**	**17.0**	**22.2**	**14.6**	**19.0**	**19.7**	**17.6**	**17.4**	**14.9**	**16.4**	**19.8**	**17.6**	**20.5**
	C.D. (5%)	1.99	1.55	3.20	0.81	0.83	0.58	0.47	1.39	0.32	0.80	1.48	0.33	-	2.56	1.41	0.78
	C.V. (%)	4.96	4.60	11.69	2.88	3.03	1.60	1.97	6.91	0.99	2.82	5.24	1.35	-	7.98	7.03	6.57
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.66	0.00

TABLE No. 2 (Contd.)

		GRAIN SHELLING %				NWPZ ZN 2							NEPZ ZN 3
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	Mean
1	RMH 1601	81.7	81.4	75.3	84.9	80.8	78.0	82.5	78.7	72.5	78.6	80.4	78.5
2	JH 13337	84.1	79.4	74.3	83.8	80.4	79.5	85.9	78.2	73.5	75.8	79.1	78.7
3	IMH 1528	85.2	79.1	75.0	80.3	79.9	82.0	84.6	81.8	76.0	69.5	77.8	78.6
4	AH-7210	84.6	78.1	72.3	87.4	80.6	81.0	84.6	79.1	68.0	76.3	78.8	78.0
5	JH 13094	84.4	79.5	74.3	86.4	81.2	81.0	82.6	80.0	71.0	74.5	78.6	77.9
6	MAH-14-5	81.4	79.7	74.7	84.5	80.1	81.0	82.1	79.5	70.5	76.5	79.2	78.1
7	NS 8001	84.1	77.3	73.3	81.1	79.0	80.0	84.6	80.0	70.5	75.9	73.8	77.5
8	JH 15004	78.8	79.5	72.3	81.5	78.0	77.5	82.1	80.0	73.0	74.3	77.1	77.3
9	IMH 1526	81.7	77.8	74.7	82.9	79.3	81.0	79.9	80.8	71.0	77.1	80.1	78.3
10	BIO 716	82.5	78.7	75.3	85.3	80.4	79.5	86.0	78.9	69.5	78.1	74.6	77.8
11	IMH 1602	82.9	78.2	74.3	85.9	80.3	81.0	80.1	81.3	76.0	70.1	81.0	78.2
12	JH 15135	83.5	78.0	72.7	87.3	80.4	80.0	84.2	78.3	77.5	77.2	79.9	79.5
13	JH 13227	80.0	77.9	75.3	78.8	78.0	79.5	81.2	81.8	72.5	79.2	81.4	79.3
14	AH-1602	83.1	79.9	74.3	85.1	80.6	82.0	83.6	78.0	72.5	78.5	80.9	79.2
15	MH 25	79.9	80.7	72.3	81.5	78.6	78.5	82.9	80.3	73.5	75.6	85.2	79.3
16	NRI MH4	83.0	75.1	75.3	85.7	79.8	77.5	-	81.2	74.0	77.0	77.7	77.5
17	AH-7188	83.0	80.8	74.3	86.4	81.1	80.0	82.8	78.8	75.0	75.3	84.8	79.4
18	QMH-1478	82.5	78.2	72.7	85.5	79.7	81.0	83.9	80.0	74.5	73.9	77.3	78.4
19	IMH 1610	85.1	79.5	75.7	87.6	82.0	79.5	81.3	85.5	74.5	73.3	78.5	78.8
20	NS 8181	81.6	80.1	74.3	85.8	80.4	81.0	84.7	80.0	70.5	71.7	77.6	77.6
21	IMH 1533	83.7	79.6	73.3	83.1	79.9	77.0	82.9	79.8	72.5	70.8	79.5	77.1
22	IMH 1527	86.4	80.6	75.3	84.1	81.6	80.0	82.6	79.5	74.0	80.5	80.9	79.6
23	SVMH-55	83.5	76.4	74.3	87.0	80.3	77.5	80.6	80.1	71.0	73.1	78.3	76.8
24	JH 15106	83.2	80.6	74.7	85.6	81.0	81.0	83.9	79.2	70.0	73.4	80.3	78.0
25	BIO 274	83.6	79.1	74.3	81.6	79.7	77.0	83.6	78.1	71.0	75.5	79.0	77.4
26	QMH-1435	80.5	79.5	74.0	79.0	78.2	77.0	86.6	78.9	74.5	74.5	77.9	78.2
27	AH-1601	82.6	78.0	75.3	79.8	78.9	81.0	83.9	81.1	72.5	77.4	81.7	79.6
28	JH 13023	83.7	80.1	73.7	86.4	81.0	83.0	86.7	79.5	72.0	76.4	78.8	79.4
29	WH-1095	81.1	76.2	74.0	85.3	79.2	79.5	83.7	82.2	76.0	76.6	71.4	78.2
30	DAS-MH-113	86.2	74.8	72.7	83.6	79.3	76.0	85.5	80.6	71.0	73.6	74.6	76.9
31	MMH 1302	82.0	79.7	73.7	82.8	79.6	80.5	84.0	79.4	72.5	76.5	74.0	77.8
32	QMH-1472	81.1	80.8	72.7	87.1	80.4	78.5	82.2	80.7	70.5	76.5	80.0	78.1
33	CAH-1533	82.4	79.0	74.0	84.9	80.1	76.0	81.0	78.2	66.0	71.1	80.7	75.5
34	RMH 815	83.8	78.0	72.7	81.9	79.1	77.0	86.1	80.0	75.5	79.5	78.4	79.4

TABLE No. 2 (Contd.)

		GRAIN SHELLING %				NWPZ ZN 2							NEPZ ZN 3
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	Mean
35	JH 15080	79.8	80.7	73.7	79.7	78.5	81.0	80.2	80.0	70.5	77.6	80.2	78.2
36	IMH 1608	83.8	75.7	75.3	83.4	79.5	81.0	86.5	80.3	74.0	69.5	79.4	78.5
37	IMH 1547	83.2	79.8	75.7	84.4	80.8	79.5	83.1	80.8	74.0	79.3	83.4	80.0
38	JH 15130	83.4	75.0	77.3	81.6	79.4	80.0	83.0	78.6	73.0	81.1	77.1	78.8
39	JH 15011	85.4	79.1	77.0	88.6	82.5	82.0	86.9	81.5	72.5	78.2	75.8	79.5
40	IMH 1601	84.5	80.2	75.0	86.4	81.5	81.0	84.6	78.3	73.5	77.2	76.1	78.4
41	MH 26	82.2	79.7	77.0	85.4	81.1	82.0	81.9	80.0	75.0	77.2	76.6	78.8
42	QMH-1470	83.5	79.6	77.7	82.6	80.8	78.5	82.7	78.5	74.0	75.9	81.5	78.5
43	BIO 509	81.2	79.7	73.3	85.1	79.8	78.5	84.5	79.4	70.0	76.8	81.5	78.4
44	AH-7005	78.9	78.6	74.3	82.9	78.7	81.0	82.6	79.0	72.0	74.8	79.6	78.2
45	IMH 1607	85.1	79.7	75.0	80.7	80.1	78.5	82.9	80.0	76.0	69.9	80.2	77.9
46	DAS-MH-112	82.4	78.6	73.0	79.4	78.3	78.5	85.3	79.8	72.0	74.6	79.0	78.2
	CHECKS												
47	BIO 9682 (C)	84.3	80.1	72.0	80.9	79.3	81.0	84.4	79.1	70.5	72.9	82.0	78.3
48	CMH 08-287 (C)	82.2	78.7	71.0	85.0	79.2	79.5	85.1	80.0	72.5	77.8	79.2	79.0
49	CMH 08-282 (C)	81.1	80.3	70.0	84.3	78.9	79.0	83.7	78.3	71.0	77.1	77.6	77.8
	Loc. Mean	**82.8**	**78.9**	**74.2**	**83.9**	**79.9**	**79.6**	**83.5**	**79.9**	**72.6**	**75.6**	**78.9**	**78.3**
	C.D. (5%)	2.89	0.33	1.49	1.45	2.56	2.48	1.98	0.00	2.81	1.35	4.20	2.52
	C.V. (%)	2.15	0.26	1.24	1.07	2.29	1.92	1.16	0.00	2.39	1.10	3.28	2.83
	F (Prob)	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.62

TABLE No. 2 (Contd.)

		GRAIN SHELLING %							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	RMH 1601	78.6	80.2	85.2	79.5	78.6	79.1	87.0	81.2	79.1	78.1	82.8	79.2	83.9	76.8	80.0	80.1
2	JH 13337	75.5	80.9	86.6	81.0	78.2	81.0	84.5	81.1	79.3	78.3	88.2	78.2	84.5	79.4	81.3	80.4
3	IMH 1528	74.3	79.7	86.3	81.8	76.5	81.8	85.0	80.8	79.8	76.4	83.4	79.1	85.1	80.0	80.6	80.0
4	AH-7210	73.1	81.2	86.5	80.5	78.8	82.6	85.5	81.2	80.7	75.9	82.0	77.2	84.3	78.4	79.7	79.9
5	JH 13094	81.0	80.5	86.8	81.6	76.8	82.7	86.0	82.2	80.5	76.6	81.0	79.1	84.7	78.9	80.1	80.4
6	MAH-14-5	75.2	81.2	85.0	81.5	77.2	78.2	82.0	80.0	79.6	78.0	89.3	77.3	84.1	75.2	80.6	79.7
7	NS 8001	76.9	78.3	87.8	81.5	78.3	80.9	86.5	81.4	81.3	75.7	82.1	80.4	85.7	71.3	79.4	79.4
8	JH 15004	66.2	76.5	81.6	79.1	77.7	75.4	79.5	76.6	82.2	76.9	79.6	78.0	82.7	73.9	78.9	77.6
9	IMH 1526	72.7	81.3	85.5	79.0	78.2	79.3	82.0	79.7	80.9	74.9	87.6	79.2	81.8	75.1	79.9	79.3
10	BIO 716	78.4	79.4	87.2	80.1	80.8	81.6	86.5	82.0	80.5	78.0	87.9	78.7	88.2	78.1	81.9	80.6
11	IMH 1602	71.8	82.1	84.1	80.5	77.6	80.1	83.5	80.0	80.4	73.2	85.7	78.3	85.8	78.5	80.3	79.7
12	JH 15135	81.1	83.0	88.0	82.1	81.3	83.5	86.5	83.7	80.8	75.4	81.1	78.3	84.8	81.0	80.2	81.1
13	JH 13227	72.7	78.0	83.5	78.5	76.4	74.4	85.5	78.4	79.6	79.2	81.2	76.8	81.8	76.0	79.1	78.7
14	AH-1602	74.0	80.4	84.5	81.5	78.9	79.5	84.5	80.5	80.6	77.3	85.4	78.3	85.4	75.8	80.5	80.2
15	MH 25	74.8	80.2	85.6	78.5	78.8	72.8	83.0	79.1	82.8	77.0	79.1	78.2	84.6	75.6	79.6	79.2
16	NRI MH4	74.6	77.1	88.2	-	79.0	81.8	86.5	81.2	79.5	76.4	85.9	79.9	86.2	76.9	80.8	79.9
17	AH-7188	75.9	80.2	86.3	81.8	76.3	79.4	82.5	80.3	79.8	76.8	84.0	76.8	84.1	78.3	79.9	80.1
18	QMH-1478	75.8	80.5	86.2	80.0	78.7	81.7	83.0	80.8	82.1	75.3	82.0	79.4	84.7	71.7	79.2	79.6
19	IMH 1610	77.8	84.6	86.3	81.0	78.0	81.9	85.5	82.2	82.4	76.1	85.2	80.9	87.2	81.4	82.2	81.2
20	NS 8181	72.7	78.8	85.3	77.0	76.9	74.2	81.0	78.0	82.3	77.0	78.3	76.5	75.0	74.7	77.3	78.1
21	IMH 1533	76.3	80.1	86.3	82.3	75.9	82.3	86.5	81.4	80.1	78.4	80.6	80.1	77.2	77.8	79.0	79.4
22	IMH 1527	78.7	80.0	86.8	80.6	78.3	83.3	86.0	81.9	79.7	76.0	88.1	79.9	84.4	80.3	81.4	81.1
23	SVMH-55	74.0	77.1	85.0	80.5	75.6	82.5	80.0	79.3	83.1	75.2	87.9	77.2	82.9	76.0	80.4	79.1
24	JH 15106	76.9	79.1	86.6	75.5	77.5	78.9	82.5	79.6	81.0	77.7	88.0	80.0	83.1	76.0	81.0	79.8
25	BIO 274	73.6	78.6	84.6	78.5	79.6	78.7	84.0	79.7	80.9	76.6	87.6	78.4	82.9	78.1	80.7	79.3
26	QMH-1435	80.3	81.0	86.5	80.3	77.8	81.8	84.5	81.7	80.8	77.0	83.3	77.0	86.5	80.0	80.8	80.0
27	AH-1601	75.0	81.5	85.9	81.5	79.5	79.4	83.5	80.9	82.3	73.9	81.4	79.9	83.2	78.4	79.8	79.9
28	JH 13023	74.1	83.5	87.2	81.5	78.1	80.3	86.5	81.6	80.8	77.5	83.6	80.0	82.8	79.7	80.7	80.7
29	WH-1095	80.0	84.1	86.6	80.2	77.2	82.4	84.0	82.1	76.9	74.6	82.9	79.2	80.0	79.7	78.9	79.7
30	DAS-MH-113	83.8	84.1	86.7	81.0	76.7	79.4	84.5	82.3	81.7	76.4	89.4	78.7	86.1	78.5	81.8	80.2
31	MMH 1302	73.1	81.6	83.6	77.5	81.3	76.8	81.5	79.3	77.9	75.5	80.6	80.1	80.3	75.3	78.3	78.7
32	QMH-1472	70.2	82.8	86.4	81.5	76.5	80.5	85.0	80.4	81.6	77.6	87.2	78.3	86.2	76.6	81.2	80.0
33	CAH-1533	80.3	80.4	84.6	80.5	77.2	79.4	82.5	80.7	78.2	76.6	79.9	79.3	76.3	76.4	77.8	78.5
34	RMH 815	76.8	81.5	88.0	82.5	77.5	81.8	86.0	82.0	78.9	77.6	85.5	80.5	76.4	80.1	79.8	80.3

TABLE No. 2 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
35	JH 15080	74.9	78.3	84.0	78.0	78.5	76.1	85.0	79.3	82.1	78.0	84.5	76.5	87.1	76.6	80.8	79.3
36	IMH 1608	78.5	79.4	85.4	84.0	75.8	81.0	84.5	81.2	81.5	72.3	81.8	78.7	67.1	78.4	76.6	79.0
37	IMH 1547	80.9	81.9	85.2	82.0	79.8	80.0	85.0	82.1	82.8	75.3	87.1	80.7	85.7	79.1	81.8	81.2
38	JH 15130	76.9	80.4	88.3	79.3	79.8	80.2	84.5	81.3	82.0	76.3	83.3	79.8	87.2	83.6	82.0	80.5
39	JH 15011	74.1	82.7	86.5	81.0	78.0	82.0	84.5	81.3	81.2	76.4	86.3	77.6	86.0	79.6	81.2	81.0
40	IMH 1601	76.5	80.2	87.7	81.6	74.8	80.0	84.5	80.8	81.9	77.0	80.7	78.8	86.8	80.5	81.0	80.3
41	MH 26	72.9	82.5	83.5	81.5	77.2	81.3	83.0	80.3	80.1	72.3	89.4	78.8	87.3	78.0	81.0	80.2
42	QMH-1470	79.3	80.2	85.9	79.1	77.3	79.3	83.5	80.6	80.6	75.1	88.5	77.3	84.9	79.4	81.0	80.2
43	BIO 509	75.3	80.5	85.9	79.0	79.6	79.8	85.5	80.8	80.7	76.8	83.1	78.6	85.5	78.0	80.4	79.9
44	AH-7005	69.8	79.8	85.6	75.5	78.3	74.5	80.5	77.7	79.8	76.3	89.0	76.8	79.4	79.6	80.1	78.6
45	IMH 1607	83.1	80.2	87.3	84.0	79.2	83.4	85.5	83.2	79.8	75.4	87.4	79.0	87.1	81.0	81.6	80.9
46	DAS-MH-112	76.2	81.5	85.0	81.0	78.5	78.1	82.0	80.3	79.2	75.7	85.8	77.8	83.0	74.5	79.3	79.2
	CHECKS																
47	BIO 9682 (C)	69.9	83.3	88.4	79.5	79.0	79.4	85.0	80.6	81.2	71.1	81.4	76.7	79.7	72.4	77.1	78.9
48	CMH 08-287 (C)	75.5	80.0	84.4	80.5	78.9	79.2	85.0	80.5	81.5	77.3	82.2	78.1	83.1	78.9	80.2	79.8
49	CMH 08-282 (C)	72.0	80.2	85.7	80.0	78.8	78.9	84.5	80.0	82.1	74.9	81.6	79.0	83.1	79.4	80.0	79.2
	Loc. Mean	**75.8**	**80.6**	**85.9**	**80.3**	**78.0**	**79.8**	**84.2**	**80.7**	**80.7**	**76.2**	**84.3**	**78.6**	**83.4**	**77.7**	**80.1**	**79.8**
	C.D. (5%)	8.15	2.23	0.93	1.30	1.63	0.80	1.28	1.92	0.36	3.01	3.80	3.35	0.00	5.79	2.69	1.22
	C.V. (%)	6.64	1.70	0.67	0.99	1.29	0.62	0.94	2.26	0.27	2.44	2.78	2.63	0.00	4.60	2.95	2.65
	F (Prob)	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.04	0.01	0.00

TABLE No. 2 (Contd.)

		STAND AT HARVEST ('000/ha)											NEPZ
					NWPZ(ZN 2)								ZN 3
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	Mean
1	RMH 1601	87.5	57.8	71.5	56.3	68.3	43.9	67.9	59.7	63.9	72.9	73.6	63.6
2	JH 13337	79.9	59.4	75.0	61.5	68.9	46.7	72.3	62.5	62.5	67.4	77.8	64.9
3	IMH 1528	85.4	58.3	79.2	57.8	70.2	38.9	58.0	61.1	60.4	59.0	64.6	57.0
4	AH-7210	85.4	58.3	75.0	63.7	70.6	53.3	71.4	58.3	54.9	77.1	62.5	62.9
5	JH 13094	85.4	60.6	75.7	63.7	71.3	37.2	70.5	60.4	62.5	62.5	59.7	58.8
6	MAH-14-5	85.4	59.4	79.2	57.0	70.3	43.3	67.9	59.7	65.3	69.4	60.4	61.0
7	NS 8001	77.1	59.4	74.3	62.2	68.3	41.1	49.1	62.5	61.8	72.2	57.6	57.4
8	JH 15004	82.6	60.6	75.0	58.5	69.2	49.4	71.4	61.8	56.9	69.4	72.2	63.5
9	IMH 1526	81.9	59.4	77.1	59.3	69.4	46.7	68.8	61.1	66.0	68.1	66.7	62.9
10	BIO 716	77.1	59.4	76.4	61.5	68.6	43.9	67.0	60.4	58.3	65.3	66.0	60.1
11	IMH 1602	86.8	58.9	75.0	61.5	70.5	47.8	67.9	58.3	59.0	72.2	75.0	63.4
12	JH 15135	86.8	60.0	75.0	61.5	70.8	43.3	72.3	60.4	63.2	66.7	77.1	63.8
13	JH 13227	83.3	60.0	79.2	55.6	69.5	41.7	67.9	59.0	54.2	66.7	71.5	60.2
14	AH-1602	84.7	57.2	76.4	60.0	69.6	56.7	67.0	61.1	65.3	67.4	75.0	65.4
15	MH 25	86.8	57.2	77.8	63.7	71.4	46.1	67.0	62.5	62.5	73.6	60.4	62.0
16	NRI MH4	52.8	57.2	77.1	55.6	60.7	38.9	-	61.8	46.5	63.2	48.6	51.8
17	AH-7188	81.9	58.9	76.4	61.5	69.7	43.3	66.1	59.7	56.9	77.8	69.4	62.2
18	QMH-1478	87.5	59.4	75.0	58.5	70.1	45.6	72.3	59.0	60.4	70.8	68.8	62.8
19	IMH 1610	49.3	59.4	73.6	57.8	60.0	38.9	42.9	61.1	63.9	58.3	71.5	56.1
20	NS 8181	79.9	58.3	72.9	47.4	64.6	38.9	66.1	58.3	68.8	60.4	69.4	60.3
21	IMH 1533	84.0	57.8	76.4	61.5	69.9	42.8	67.9	63.9	56.9	68.8	70.8	61.8
22	IMH 1527	88.9	58.3	75.0	65.9	72.0	53.3	70.5	63.2	63.2	79.2	72.2	66.9
23	SVMH-55	53.5	58.3	76.4	62.2	62.6	39.4	48.2	61.1	63.9	59.7	66.7	56.5
24	JH 15106	84.7	61.1	77.8	61.5	71.3	47.8	72.3	61.8	63.9	62.5	66.0	62.4
25	BIO 274	87.5	61.1	79.9	64.4	73.2	43.9	75.9	63.9	58.3	64.6	77.8	64.1
26	QMH-1435	81.9	57.2	79.2	53.3	67.9	47.8	71.4	64.6	65.3	77.8	65.3	65.4
27	AH-1601	86.1	58.9	75.7	58.5	69.8	45.6	67.9	63.2	64.6	71.5	75.0	64.6
28	JH 13023	87.5	60.0	77.8	66.7	73.0	52.2	71.4	60.4	56.9	68.8	76.4	64.4
29	WH-1095	68.8	56.1	79.2	59.3	65.8	47.2	67.9	62.5	63.9	66.7	74.3	63.7
30	DAS-MH-113	79.2	58.3	79.9	57.8	68.8	50.6	64.3	63.9	61.1	56.3	60.4	59.4
31	MMH 1302	82.6	59.4	79.9	59.3	70.3	45.0	66.1	56.3	64.6	66.0	72.9	61.8
32	QMH-1472	80.6	60.0	79.9	56.3	69.2	45.6	71.4	62.5	64.6	59.0	63.9	61.2
33	CAH-1533	84.7	58.9	77.8	57.8	69.8	48.9	71.4	61.8	57.6	66.0	74.3	63.3
34	RMH 815	76.4	59.4	72.9	62.2	67.7	44.4	67.0	61.8	63.9	67.4	68.8	62.2

TABLE No. 2 (Contd.)

		STAND AT HARVEST ('000/ha)											
		NWPZ(ZN 2)											NEPZ ZN 3
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	Mean
35	JH 15080	84.0	57.2	70.8	65.2	69.3	49.4	70.5	61.8	59.0	65.3	78.5	64.1
36	IMH 1608	83.3	60.0	72.2	60.7	69.1	40.0	75.0	58.3	63.9	62.5	57.6	59.6
37	IMH 1547	81.9	58.9	77.8	57.8	69.1	40.0	63.4	60.4	56.3	59.7	65.3	57.5
38	JH 15130	83.3	60.6	79.9	63.7	71.9	50.6	67.0	60.4	63.9	70.1	75.7	64.6
39	JH 15011	87.5	60.6	80.6	66.7	73.8	42.2	72.3	62.5	64.6	71.5	73.6	64.5
40	IMH 1601	79.2	59.4	79.9	62.2	70.2	45.6	68.8	61.1	62.5	69.4	74.3	63.6
41	MH 26	81.9	57.2	81.3	54.8	68.8	47.8	69.6	60.4	61.1	70.8	63.2	62.2
42	QMH-1470	85.4	58.3	78.5	58.5	70.2	42.8	69.6	63.2	60.4	63.2	70.8	61.7
43	BIO 509	79.2	58.9	70.8	59.3	67.0	39.4	60.7	60.4	60.4	59.0	66.0	57.7
44	AH-7005	85.4	60.0	72.2	51.9	67.4	50.6	69.6	61.8	61.8	71.5	63.2	63.1
45	IMH 1607	87.5	59.4	75.7	57.8	70.1	50.0	72.3	62.5	65.3	66.0	71.5	64.6
46	DAS-MH-112	75.7	60.0	73.6	63.0	68.1	48.3	71.4	63.2	60.4	66.7	66.0	62.7
	CHECKS												
47	BIO 9682 (C)	67.4	61.7	72.9	60.7	65.7	37.8	60.7	61.8	59.0	70.8	69.4	59.9
48	CMH 08-287 (C)	83.3	59.4	74.3	63.7	70.2	47.2	70.5	58.3	55.6	67.4	78.5	62.9
49	CMH 08-282 (C)	87.5	58.3	75.7	63.7	71.3	46.1	71.4	62.5	55.6	67.4	65.3	61.4
	Loc. Mean	**81.0**	**59.1**	**76.3**	**60.0**	**69.1**	**45.3**	**67.5**	**61.2**	**61.1**	**67.3**	**68.8**	**61.8**
	C.D. (5%)	7.53	3.70	5.41	7.66	6.77	11.21	9.05	5.35	6.13	6.54	11.91	5.24
	C.V. (%)	5.74	3.87	4.38	7.88	7.01	15.28	6.59	5.39	6.19	6.00	10.68	7.45
	F (Prob)	0.00	0.77	0.00	0.00	0.13	0.15	0.00	0.69	0.00	0.00	0.00	0.00

TABLE No. 2 (Contd.)

		STAND AT HARVEST ('000/ha)							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	RMH 1601	62.8	62.8	77.8	78.5	61.1	66.7	52.8	66.1	63.2	66.0	65.6	68.9	61.5	48.9	62.3	64.8
2	JH 13337	65.0	63.3	73.6	79.2	60.4	63.9	51.1	65.2	58.3	61.1	65.6	64.4	59.4	37.2	57.7	63.8
3	IMH 1528	58.9	55.6	59.7	66.7	61.8	68.1	48.3	59.9	56.9	59.0	63.9	63.3	29.2	33.3	50.9	58.6
4	AH-7210	58.9	61.7	75.7	70.8	59.0	66.0	48.3	62.9	63.2	55.6	66.7	62.2	44.8	40.6	55.5	62.3
5	JH 13094	61.1	61.7	74.3	75.0	57.6	64.6	50.0	63.5	56.9	60.4	66.7	56.7	51.0	36.1	54.6	61.3
6	MAH-14-5	60.0	63.3	76.4	72.2	59.0	68.1	52.2	64.5	56.3	61.1	65.0	61.1	49.0	38.3	55.1	62.1
7	NS 8001	59.4	52.2	59.0	66.7	56.3	63.2	48.9	58.0	41.0	63.2	56.7	58.9	26.0	30.0	46.0	56.5
8	JH 15004	62.8	64.4	71.5	70.8	61.8	66.7	48.9	63.8	59.7	57.6	65.6	63.9	51.0	38.9	56.1	62.7
9	IMH 1526	64.4	55.0	77.1	75.0	60.4	63.9	50.0	63.7	52.8	58.3	63.9	61.1	51.0	43.9	55.2	62.3
10	BIO 716	63.3	58.3	62.5	64.6	61.8	66.7	56.1	61.9	63.2	59.0	62.8	55.6	52.1	30.0	53.8	60.5
11	IMH 1602	63.9	60.0	65.3	77.1	57.6	65.3	49.4	62.7	55.6	56.3	66.1	51.7	43.8	40.6	52.3	61.5
12	JH 15135	62.8	64.4	71.5	72.9	60.4	64.6	56.1	64.7	52.1	61.1	65.6	62.2	36.5	33.9	51.9	62.2
13	JH 13227	66.7	62.2	72.2	74.3	61.8	67.4	49.4	64.9	56.9	57.6	64.4	63.9	36.5	39.4	53.1	61.4
14	AH-1602	66.7	60.6	72.9	76.4	61.1	63.9	51.7	64.7	55.6	63.2	66.7	61.7	39.6	42.8	54.9	63.2
15	MH 25	65.6	64.4	71.5	63.9	60.4	64.6	52.2	63.2	61.8	63.9	66.1	54.4	35.4	37.8	53.2	61.7
16	NRI MH4	38.9	35.0	50.7	-	34.7	61.8	52.8	45.6	52.8	61.1	40.6	50.6	18.8	17.8	40.3	48.4
17	AH-7188	64.4	57.2	72.9	76.4	56.3	65.3	52.2	63.5	53.5	60.4	66.1	38.3	65.6	39.4	53.9	61.7
18	QMH-1478	62.8	61.7	75.0	67.4	63.2	64.6	51.1	63.7	57.6	64.6	66.7	64.4	53.1	37.8	57.4	62.9
19	IMH 1610	50.0	55.0	72.2	66.0	61.8	67.4	49.4	60.3	64.6	60.4	37.2	54.4	39.6	29.4	47.6	55.8
20	NS 8181	58.3	49.4	73.6	74.3	52.1	65.3	51.1	60.6	57.6	61.8	63.3	48.3	46.9	33.9	52.0	59.0
21	IMH 1533	62.8	58.3	73.6	70.8	61.8	66.0	46.7	62.9	61.1	60.4	66.7	58.3	37.5	43.3	54.6	61.7
22	IMH 1527	65.6	63.9	74.3	75.0	58.3	66.0	48.3	64.5	56.3	61.1	65.6	57.8	51.0	41.1	55.5	64.1
23	SVMH-55	41.1	52.2	53.5	68.1	36.8	63.2	49.4	52.0	52.8	63.2	53.9	53.9	40.6	27.2	48.6	54.1
24	JH 15106	58.9	56.1	70.8	72.9	58.3	65.3	51.1	61.9	61.1	56.9	66.7	55.6	65.6	40.0	57.7	62.6
25	BIO 274	65.0	65.0	77.8	77.1	56.9	66.7	52.2	65.8	64.6	60.4	66.7	61.7	69.8	45.0	61.4	65.5
26	QMH-1435	62.8	59.4	68.8	69.4	61.8	65.3	52.2	62.8	63.2	61.1	62.2	50.0	46.9	47.8	55.2	62.4
27	AH-1601	63.3	63.9	69.4	73.6	61.8	64.6	51.7	64.0	57.6	54.9	66.1	66.1	68.8	42.2	59.3	64.0
28	JH 13023	65.0	60.6	79.2	77.8	60.4	66.7	50.0	65.7	60.4	66.0	65.0	66.7	45.8	42.2	57.7	64.5
29	WH-1095	65.0	62.2	79.9	75.7	56.9	63.2	47.8	64.4	38.9	64.6	61.7	53.9	64.6	39.4	53.8	61.7
30	DAS-MH-113	65.0	66.7	68.8	70.8	59.7	66.7	48.3	63.7	66.7	62.5	64.4	56.1	46.9	40.6	56.2	61.5
31	MMH 1302	62.2	60.6	80.6	77.1	63.2	66.0	52.2	66.0	63.2	61.1	66.7	64.4	33.3	40.6	54.9	62.7
32	QMH-1472	65.0	56.1	77.8	75.7	60.4	60.4	50.6	63.7	63.2	60.4	65.6	52.8	53.1	39.4	55.8	61.9
33	CAH-1533	62.2	63.9	75.0	72.9	59.0	65.3	58.3	65.2	58.3	59.7	63.9	50.0	49.0	37.2	53.0	62.3
34	RMH 815	65.0	63.9	77.1	75.0	61.1	66.0	50.0	65.4	51.4	65.3	66.7	59.4	35.4	37.8	52.7	61.7

TABLE No. 2 (Contd.)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
35	JH 15080	61.7	66.1	68.1	76.4	61.1	66.0	50.0	64.2	61.8	62.5	62.2	53.3	30.2	37.8	51.3	61.7
36	IMH 1608	56.7	62.8	68.8	68.8	57.6	66.0	47.8	61.2	53.5	61.8	66.1	47.2	51.0	37.8	52.9	60.0
37	IMH 1547	63.9	63.3	75.0	76.4	59.7	66.7	52.8	65.4	60.4	59.7	63.9	48.3	37.5	42.2	52.0	60.5
38	JH 15130	63.3	62.8	68.1	74.3	58.3	68.8	52.8	64.0	64.6	59.0	65.6	63.3	36.5	45.0	55.7	63.4
39	JH 15011	64.4	65.6	76.4	69.4	61.1	66.7	53.3	65.3	60.4	54.9	65.6	60.6	56.3	42.2	56.6	64.3
40	IMH 1601	65.0	62.8	70.8	71.5	51.4	66.0	53.9	63.1	51.4	63.2	66.1	41.7	45.8	37.8	51.0	61.3
41	MH 26	60.6	65.0	71.5	67.4	59.0	63.9	54.4	63.1	56.9	56.9	65.0	55.6	42.7	40.6	53.0	61.2
42	QMH-1470	62.2	62.2	75.0	66.7	59.7	66.0	53.3	63.6	62.5	56.9	66.7	56.7	56.3	41.1	56.7	62.4
43	BIO 509	65.6	60.0	75.0	75.7	61.1	64.6	50.6	64.6	61.1	59.0	57.2	51.7	32.3	23.3	47.4	58.8
44	AH-7005	57.8	61.1	67.4	74.3	60.4	63.2	52.8	62.4	50.7	59.0	65.6	59.4	33.3	51.7	53.3	61.1
45	IMH 1607	65.6	58.9	75.7	72.2	61.8	65.3	51.7	64.4	64.6	63.9	65.0	63.3	54.2	30.0	56.8	63.5
46	DAS-MH-112	61.7	61.1	69.4	74.3	58.3	66.0	50.0	63.0	54.9	61.1	65.6	60.6	55.2	32.2	54.9	61.7
	CHECKS																
47	BIO 9682 (C)	61.7	60.6	66.0	70.1	59.7	64.6	50.6	61.9	52.1	64.6	62.8	58.3	32.3	30.6	50.1	59.0
48	CMH 08-287 (C)	65.0	59.4	69.4	73.6	61.1	63.9	53.3	63.7	63.2	65.3	66.1	63.9	29.2	40.0	54.6	62.2
49	CMH 08-282 (C)	59.4	63.3	70.8	70.8	58.3	61.8	55.6	62.9	54.9	62.5	66.1	61.7	44.8	40.6	55.1	61.9
	Loc. Mean	**61.6**	**60.3**	**71.4**	**72.5**	**58.7**	**65.3**	**51.3**	**62.9**	**57.8**	**60.8**	**63.6**	**57.5**	**45.6**	**38.1**	**53.9**	**61.4**
	C.D. (5%)	7.03	5.30	12.24	7.24	4.49	3.91	5.53	3.86	6.40	8.54	5.34	7.43	6.91	12.14	7.37	2.83
	C.V. (%)	7.04	5.42	10.57	6.09	4.73	3.70	6.65	5.83	6.84	8.67	5.18	7.97	7.53	19.66	12.02	7.96
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.06	0.05	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 2 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	NEPZ ZN 3 Mean
1	RMH 1601	54.0	52.7	52.3	54.7	53.4	56.3	56.0	55.0	54.7	56.3	53.0	55.2
2	JH 13337	54.0	55.0	50.7	56.3	54.0	57.0	56.0	55.0	59.3	59.7	54.7	56.9
3	IMH 1528	54.0	52.0	50.0	55.7	52.9	55.7	55.5	54.0	53.7	53.3	54.0	54.4
4	AH-7210	54.7	50.3	54.3	52.0	52.8	55.3	52.0	55.0	52.3	55.3	49.3	53.2
5	JH 13094	54.3	50.0	52.0	55.0	52.8	56.0	57.5	56.0	56.3	60.7	56.0	57.1
6	MAH-14-5	55.7	52.0	56.3	57.0	55.3	58.7	55.0	55.0	55.3	56.7	55.0	55.9
7	NS 8001	56.0	55.3	51.3	56.0	54.7	60.0	56.5	56.0	57.0	58.7	54.3	57.1
8	JH 15004	55.7	51.0	50.3	57.7	53.7	59.0	57.5	54.0	52.0	59.3	53.7	55.9
9	IMH 1526	52.0	53.3	47.3	53.0	51.4	56.3	55.0	54.0	56.3	52.7	55.0	54.9
10	BIO 716	53.7	53.0	50.3	54.0	52.8	55.7	57.5	55.0	59.0	55.3	55.3	56.3
11	IMH 1602	49.3	50.0	56.3	52.0	51.9	54.3	54.0	54.0	53.0	53.3	49.0	52.9
12	JH 15135	53.7	49.3	54.7	53.0	52.7	58.3	55.0	54.0	53.7	58.7	53.3	55.5
13	JH 13227	54.0	52.0	48.7	54.7	52.3	58.3	55.5	55.0	56.7	59.7	55.7	56.8
14	AH-1602	52.7	50.7	56.3	56.3	54.0	55.7	53.5	54.0	54.7	54.7	53.3	54.3
15	MH 25	54.3	51.0	54.3	55.0	53.7	55.0	55.5	55.0	53.7	55.7	54.0	54.8
16	NRI MH4	52.0	50.7	55.3	54.0	53.0	57.0	-	54.0	55.0	60.7	54.7	56.3
17	AH-7188	50.3	48.0	52.7	50.3	50.3	51.0	51.0	52.0	49.7	49.7	48.0	50.2
18	QMH-1478	54.0	50.3	48.7	55.7	52.2	57.0	54.0	54.0	53.3	51.3	50.3	53.3
19	IMH 1610	54.7	51.0	56.3	52.0	53.5	55.0	52.5	53.0	53.7	57.3	51.7	53.9
20	NS 8181	55.7	52.3	54.3	60.3	55.7	57.7	56.5	55.0	54.7	54.0	56.0	55.6
21	IMH 1533	52.7	50.0	52.3	52.3	51.8	55.3	52.0	55.0	51.7	56.7	50.3	53.5
22	IMH 1527	51.0	50.0	53.7	54.0	52.2	56.0	52.5	53.0	55.3	56.7	52.0	54.3
23	SVMH-55	52.7	50.0	53.0	55.3	52.8	56.0	54.5	55.0	58.7	56.7	53.3	55.7
24	JH 15106	54.3	55.7	49.3	56.3	53.9	57.0	55.5	53.0	59.7	57.7	56.3	56.5
25	BIO 274	54.7	52.7	52.0	56.3	53.9	58.0	56.0	55.0	61.3	56.3	56.0	57.1
26	QMH-1435	48.0	49.7	50.0	52.3	50.0	53.0	52.0	54.0	49.7	47.7	49.7	51.0
27	AH-1601	53.3	51.7	51.7	57.7	53.6	54.7	53.0	53.0	62.0	57.7	50.7	55.2
28	JH 13023	56.7	52.7	52.7	58.7	55.2	58.0	58.5	54.0	58.7	58.3	56.7	57.4
29	WH-1095	51.7	51.0	54.7	54.7	53.0	53.3	53.5	52.0	54.7	59.7	49.7	53.8
30	DAS-MH-113	53.0	48.0	51.3	56.3	52.2	53.3	56.5	54.0	60.3	59.7	56.0	56.6
31	MMH 1302	53.7	51.0	52.7	54.7	53.0	56.0	55.5	55.0	56.3	57.7	54.3	55.8
32	QMH-1472	54.0	50.0	52.0	53.7	52.4	54.7	52.5	53.0	52.3	52.7	49.7	52.5
33	CAH-1533	55.7	52.0	52.0	54.3	53.5	56.0	55.5	56.0	57.7	53.3	53.7	55.4
34	RMH 815	53.7	51.3	53.7	56.0	53.7	55.0	55.5	53.0	55.3	53.3	52.3	54.1

TABLE No. 2 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	NEPZ ZN 3 Mean
35	JH 15080	55.0	51.7	55.7	55.0	54.3	55.3	55.5	54.0	61.7	57.3	55.7	56.6
36	IMH 1608	52.0	46.7	53.3	55.3	51.8	57.0	55.0	54.0	57.7	58.7	52.0	55.7
37	IMH 1547	51.7	49.0	52.0	57.7	52.6	55.0	52.0	54.0	56.3	48.7	51.7	52.9
38	JH 15130	56.0	50.7	53.3	56.3	54.1	58.0	55.5	53.0	59.7	58.7	53.7	56.4
39	JH 15011	54.3	54.0	54.0	54.3	54.2	58.7	57.0	56.0	55.7	61.0	54.7	57.2
40	IMH 1601	53.0	51.0	52.3	54.0	52.6	58.7	54.5	54.0	56.7	52.7	49.7	54.4
41	MH 26	52.7	51.0	53.0	53.7	52.6	54.0	54.5	54.0	54.7	52.7	50.0	53.3
42	QMH-1470	51.3	49.3	55.7	52.0	52.1	54.3	52.0	53.0	52.7	52.7	49.3	52.3
43	BIO 509	54.7	52.0	51.7	59.3	54.4	59.0	57.0	57.0	60.0	59.3	55.3	57.9
44	AH-7005	56.0	53.0	52.7	56.7	54.6	58.0	56.5	54.0	58.0	53.3	56.0	56.0
45	IMH 1607	51.0	50.3	54.3	53.7	52.3	54.3	52.0	53.0	52.7	58.7	51.0	53.6
46	DAS-MH-112	55.3	52.7	52.3	58.0	54.6	58.0	58.0	53.0	60.3	58.3	60.0	57.9
	CHECKS												
47	BIO 9682 (C)	55.0	51.0	50.3	57.0	53.3	57.3	55.0	54.0	61.7	58.7	52.7	56.6
48	CMH 08-287 (C)	55.0	54.0	56.3	59.0	56.1	56.3	57.0	52.0	58.7	59.7	54.3	56.3
49	CMH 08-282 (C)	52.7	51.0	51.3	53.3	52.1	56.7	52.0	54.0	55.7	51.3	53.0	53.8
	Loc. Mean	**53.6**	**51.3**	**52.7**	**55.2**	**53.2**	**56.3**	**54.8**	**54.1**	**56.1**	**56.1**	**53.2**	**55.1**
	C.D. (5%)	2.41	0.83	2.08	2.63	2.55	3.09	1.18	1.49	3.38	2.21	3.07	2.10
	C.V. (%)	2.78	1.00	2.43	2.94	3.44	3.38	1.06	1.70	3.71	2.43	3.56	3.35
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 2 (Contd.)

		DAYS TO 50% POLLEN SHED							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	RMH 1601	60.0	56.3	60.7	54.7	54.3	52.7	57.7	56.6	57.7	56.3	61.3	54.7	52.0	55.0	56.2	55.6
2	JH 13337	58.7	59.7	61.3	56.0	54.0	53.7	57.0	57.2	54.7	55.7	60.7	53.7	52.0	56.3	55.5	56.1
3	IMH 1528	57.3	59.3	61.3	51.7	54.3	51.3	56.3	56.0	59.0	56.0	59.7	51.7	52.0	54.7	55.5	54.9
4	AH-7210	58.0	56.3	61.0	49.3	49.7	51.7	55.7	54.5	57.0	57.0	58.7	47.7	49.5	51.3	53.5	53.6
5	JH 13094	63.0	61.7	62.3	56.0	55.7	55.3	61.7	59.4	53.3	56.3	62.7	55.7	53.5	58.0	56.6	56.9
6	MAH-14-5	58.7	57.7	60.7	53.7	53.7	54.3	57.7	56.6	57.7	56.3	61.7	51.7	52.0	53.3	55.4	55.9
7	NS 8001	61.0	60.7	62.0	53.0	53.7	53.3	58.7	57.5	58.7	56.0	62.3	52.7	56.0	55.3	56.8	56.7
8	JH 15004	62.0	58.3	63.0	55.3	55.0	55.3	59.0	58.3	57.3	56.3	61.3	56.7	54.0	57.3	57.2	56.6
9	IMH 1526	60.3	60.7	60.3	53.7	51.7	53.3	57.7	56.8	58.3	56.0	59.3	54.7	55.5	55.3	56.5	55.3
10	BIO 716	61.3	59.0	61.3	54.7	53.7	54.3	58.0	57.5	57.3	56.0	61.3	54.3	52.0	58.7	56.6	56.1
11	IMH 1602	57.7	56.7	60.0	52.3	53.0	50.7	56.7	55.3	58.0	56.0	58.3	51.7	50.5	51.3	54.3	53.8
12	JH 15135	58.7	56.7	60.7	52.0	54.0	52.3	57.3	56.0	59.3	56.7	60.0	51.7	51.0	55.3	55.7	55.2
13	JH 13227	60.0	60.3	61.7	54.3	54.0	53.7	58.0	57.4	58.7	56.7	61.3	54.7	54.5	57.3	57.2	56.3
14	AH-1602	59.0	59.3	60.3	52.3	51.0	53.3	56.3	56.0	57.3	56.3	58.7	53.7	51.0	53.7	55.1	55.0
15	MH 25	59.7	56.3	61.0	52.0	53.0	52.3	56.7	55.9	56.7	55.7	59.7	51.7	51.0	54.3	54.8	54.9
16	NRI MH4	59.3	57.0	62.0	-	52.3	53.7	57.3	56.9	60.0	56.0	61.3	52.7	52.0	58.0	56.7	56.0
17	AH-7188	54.0	53.7	57.0	49.0	48.0	47.0	53.0	51.7	53.7	56.7	57.0	47.7	49.0	49.3	52.2	51.2
18	QMH-1478	57.0	56.0	60.3	51.0	51.7	51.7	55.0	54.7	56.7	56.0	58.3	50.0	50.0	52.7	53.9	53.7
19	IMH 1610	59.7	56.7	60.3	50.7	53.7	52.7	57.0	55.8	57.0	55.3	57.3	50.7	51.0	57.0	54.7	54.6
20	NS 8181	61.0	59.0	62.0	54.7	55.0	56.3	58.0	58.0	56.7	55.0	62.0	56.7	53.0	56.0	56.6	56.6
21	IMH 1533	57.7	55.3	61.0	50.3	50.7	53.3	53.7	54.6	56.0	56.7	59.0	48.7	51.0	52.0	53.9	53.6
22	IMH 1527	59.7	56.0	60.3	52.0	53.7	53.0	55.3	55.7	56.3	56.7	58.3	50.7	52.0	54.3	54.7	54.5
23	SVMH-55	59.7	57.0	61.0	51.0	52.7	54.0	57.7	56.1	58.0	54.7	61.3	52.7	50.0	55.0	55.3	55.2
24	JH 15106	60.7	59.0	62.0	53.7	54.0	55.3	58.7	57.6	59.7	54.7	62.7	52.7	52.0	58.0	56.6	56.4
25	BIO 274	62.3	57.7	61.0	53.0	51.7	52.7	56.0	56.3	56.3	56.7	61.7	53.7	49.0	55.3	55.4	55.9
26	QMH-1435	55.3	53.7	60.0	49.3	47.0	48.0	51.0	52.0	57.3	56.0	57.3	47.7	48.0	49.3	52.6	51.6
27	AH-1601	58.0	56.7	58.3	52.7	52.3	52.3	56.7	55.3	57.7	56.3	58.7	51.7	50.0	53.0	54.6	54.8
28	JH 13023	60.0	60.0	62.7	56.0	56.0	55.3	57.0	58.1	57.3	56.0	61.3	56.7	52.0	57.3	56.8	57.1
29	WH-1095	56.0	54.7	59.0	51.3	52.3	53.7	55.3	54.6	57.3	55.3	59.3	49.7	49.0	53.0	53.9	53.9
30	DAS-MH-113	59.3	58.3	61.7	52.7	52.3	51.7	55.7	56.0	53.7	56.7	60.3	54.7	50.5	55.7	55.3	55.3
31	MMH 1302	60.7	56.7	62.0	54.7	53.3	54.7	57.0	57.0	54.3	56.0	60.0	54.7	50.5	55.3	55.1	55.5
32	QMH-1472	56.0	55.7	61.0	50.3	49.3	51.3	55.0	54.1	57.7	55.3	58.3	49.7	49.0	53.3	53.9	53.3
33	CAH-1533	61.0	56.3	60.7	53.0	52.3	52.7	58.3	56.3	56.7	55.7	61.0	50.7	50.0	56.3	55.1	55.3
34	RMH 815	59.7	60.0	60.7	53.7	53.3	53.7	56.0	56.7	60.3	55.3	60.3	52.7	49.0	56.0	55.6	55.2

TABLE No. 2 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED							PZ ZN 4 Mean							CWZ ZN 5 Mean	OV'L Mean
		HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU		UDAI	BANS	CHHI	AMBI	GODH	JHAB		
35	JH 15080	59.3	56.0	60.7	54.7	54.0	52.7	56.7	56.3	58.7	55.7	59.7	53.7	55.5	54.7	56.3	56.0
36	IMH 1608	61.0	56.7	61.7	52.0	54.3	55.7	60.3	57.4	55.3	56.7	62.3	52.7	52.0	54.0	55.5	55.5
37	IMH 1547	57.0	55.7	60.3	51.3	50.0	51.0	54.7	54.3	55.3	56.0	58.3	49.7	52.5	50.7	53.8	53.5
38	JH 15130	60.3	56.3	60.7	53.7	54.0	54.3	55.3	56.4	57.7	56.0	60.7	53.7	50.0	55.7	55.6	55.8
39	JH 15011	62.0	60.0	62.7	56.0	55.7	55.7	59.7	58.8	59.7	56.3	61.0	56.7	54.0	58.3	57.7	57.3
40	IMH 1601	61.3	57.0	60.7	52.7	52.0	51.7	56.0	55.9	58.7	56.7	59.0	52.7	51.5	53.0	55.3	54.8
41	MH 26	59.7	57.3	60.0	51.3	51.3	52.3	56.0	55.4	54.7	56.3	59.0	51.7	50.0	52.3	54.0	54.0
42	QMH-1470	55.7	56.0	60.0	50.3	48.0	50.0	53.3	53.3	55.3	56.0	59.3	49.7	50.5	50.7	53.6	52.9
43	BIO 509	59.3	60.0	61.7	52.7	49.7	52.7	56.7	56.1	56.7	56.3	61.7	55.7	54.0	55.7	56.7	56.4
44	AH-7005	61.0	58.0	61.7	53.7	53.0	55.3	58.0	57.2	57.7	56.0	62.0	55.7	54.0	56.0	56.9	56.4
45	IMH 1607	59.0	57.0	61.0	51.7	52.3	55.3	56.7	56.1	58.3	56.3	59.0	48.7	52.0	52.3	54.4	54.4
46	DAS-MH-112	62.3	59.0	62.0	54.7	52.7	54.3	58.0	57.6	59.3	56.0	62.0	55.3	53.0	58.7	57.4	57.1
	CHECKS																
47	BIO 9682 (C)	61.0	61.0	61.0	53.3	52.0	52.3	59.0	57.1	58.3	56.0	59.7	54.7	52.0	56.0	56.1	56.0
48	CMH 08-287 (C)	61.0	58.3	61.7	53.0	53.3	57.3	58.0	57.5	56.3	55.7	61.7	54.7	51.0	57.7	56.2	56.6
49	CMH 08-282 (C)	57.3	60.0	59.7	52.0	53.0	52.0	54.3	55.5	56.7	56.0	58.3	52.7	51.0	54.7	54.9	54.3
	Loc. Mean	**59.4**	**57.7**	**60.9**	**52.8**	**52.6**	**53.1**	**56.7**	**56.2**	**57.2**	**56.0**	**60.1**	**52.6**	**51.6**	**54.8**	**55.4**	**55.2**
	C.D. (5%)	2.26	1.60	1.47	1.34	1.50	1.01	2.56	1.17	1.07	1.34	1.52	0.57	2.45	1.83	1.71	0.91
	C.V. (%)	2.35	1.71	1.49	1.55	1.76	1.17	2.79	1.98	1.15	1.47	1.56	0.67	2.37	2.06	2.72	2.84
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 2 (Contd.)

		DAYS TO 50% SILKING				NWPZ ZN 2							NEPZ ZN 3
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	Mean
1	RMH 1601	54.7	54.7	55.3	57.7	55.6	58.3	59.5	58.0	61.0	58.3	56.7	58.6
2	JH 13337	54.3	57.0	55.7	59.7	56.7	59.3	58.5	58.3	65.3	61.7	58.0	60.2
3	IMH 1528	55.0	54.0	54.0	58.7	55.4	58.3	60.0	57.0	61.0	55.3	59.3	58.5
4	AH-7210	55.7	52.3	57.7	55.3	55.3	56.0	57.0	58.3	60.0	57.3	57.0	57.6
5	JH 13094	55.7	52.0	55.7	58.7	55.5	58.7	61.0	60.0	65.0	62.7	62.3	61.6
6	MAH-14-5	57.7	55.0	59.3	60.0	58.0	61.0	58.5	59.0	64.3	58.7	59.0	60.1
7	NS 8001	57.0	57.3	55.7	59.0	57.3	61.7	60.0	60.0	64.7	60.7	57.3	60.7
8	JH 15004	56.7	53.0	54.0	60.7	56.1	62.0	61.0	57.0	59.0	61.3	58.0	59.7
9	IMH 1526	53.0	55.3	51.3	56.0	53.9	58.7	58.0	57.0	63.7	54.7	57.3	58.2
10	BIO 716	54.7	55.0	53.3	57.7	55.2	58.0	61.5	58.0	67.7	57.3	59.3	60.3
11	IMH 1602	50.7	52.0	60.3	55.0	54.5	57.3	58.5	57.3	60.3	55.3	54.7	57.3
12	JH 15135	55.0	51.3	57.7	57.0	55.3	61.3	58.5	57.3	59.3	60.7	56.3	58.9
13	JH 13227	54.7	54.0	53.0	59.0	55.2	61.3	58.5	58.3	62.3	61.7	59.0	60.2
14	AH-1602	53.0	52.7	59.0	60.0	56.2	57.7	57.5	57.3	62.0	56.7	56.3	57.9
15	MH 25	55.3	53.0	57.3	58.7	56.1	58.3	60.0	59.0	61.0	57.7	59.3	59.2
16	NRI MH4	53.0	52.7	59.3	57.3	55.6	58.7	-	57.3	61.7	62.7	57.7	59.6
17	AH-7188	50.3	50.0	55.7	53.3	52.3	53.3	55.0	55.7	58.0	51.7	53.3	54.5
18	QMH-1478	55.0	53.3	51.7	58.3	54.6	59.3	58.0	57.7	61.0	53.0	55.3	57.4
19	IMH 1610	56.3	54.0	59.7	55.7	56.4	57.0	56.5	56.3	59.3	59.3	57.7	57.7
20	NS 8181	57.3	54.3	57.3	63.3	58.1	61.3	60.5	58.3	60.3	56.0	60.7	59.5
21	IMH 1533	53.7	53.0	55.7	56.0	54.6	58.7	56.0	58.3	61.0	58.7	56.3	58.2
22	IMH 1527	52.0	52.0	57.0	57.7	54.7	59.0	56.5	56.0	62.0	58.7	57.3	58.3
23	SVMH-55	53.7	52.0	56.7	58.3	55.2	57.7	59.0	58.0	66.7	58.7	56.3	59.4
24	JH 15106	55.3	57.7	54.0	59.3	56.6	59.0	59.5	56.0	65.7	59.7	60.7	60.1
25	BIO 274	55.7	54.7	55.0	59.0	56.1	61.3	60.0	58.7	69.7	58.3	59.0	61.2
26	QMH-1435	49.0	51.7	53.0	55.3	52.3	55.3	57.0	57.0	57.0	49.7	54.7	55.1
27	AH-1601	54.3	53.7	55.0	60.7	55.9	57.0	57.0	56.0	69.7	59.7	54.3	58.9
28	JH 13023	57.3	54.7	56.3	61.7	57.5	60.0	61.0	57.7	66.0	60.3	59.3	60.7
29	WH-1095	52.0	53.0	57.7	58.0	55.2	55.3	57.5	55.0	62.3	61.7	52.3	57.4
30	DAS-MH-113	54.0	50.0	54.7	59.3	54.5	56.7	60.5	58.0	66.3	61.7	58.7	60.3
31	MMH 1302	54.3	53.0	55.7	58.3	55.3	58.3	60.0	58.0	64.3	59.7	58.0	59.7
32	QMH-1472	55.3	52.0	55.7	57.7	55.2	56.7	57.5	56.0	60.3	54.7	55.3	56.8
33	CAH-1533	57.3	54.0	55.7	57.7	56.2	58.0	59.0	60.0	65.3	55.3	57.3	59.2
34	RMH 815	54.7	53.3	56.7	59.0	55.9	56.7	60.0	57.0	62.7	55.3	55.0	57.8

TABLE No. 2 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% SILKING LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	NEPZ ZN 3 Mean
35	JH 15080	56.0	53.7	59.0	58.3	56.8	58.0	58.5	57.3	67.3	59.3	57.7	59.7
36	IMH 1608	54.3	48.7	56.7	58.3	54.5	60.3	58.5	57.7	65.7	60.7	60.0	60.5
37	IMH 1547	52.7	51.0	55.0	60.7	54.8	57.7	56.5	57.0	63.3	50.7	57.0	57.0
38	JH 15130	57.0	52.7	57.0	59.3	56.5	60.0	59.0	56.0	69.0	60.7	56.7	60.2
39	JH 15011	55.3	56.0	58.3	57.7	56.8	60.7	60.5	59.7	64.0	63.0	58.0	61.0
40	IMH 1601	54.7	53.0	56.0	57.0	55.2	61.7	58.0	58.0	63.7	54.7	56.3	58.7
41	MH 26	53.7	53.0	57.0	57.3	55.3	56.3	58.0	57.7	66.0	54.7	55.7	58.1
42	QMH-1470	53.0	52.3	58.7	55.3	54.8	57.3	56.5	56.3	62.0	54.7	54.7	56.9
43	BIO 509	55.7	54.0	55.3	62.3	56.8	61.7	61.0	60.3	71.0	61.3	59.3	62.4
44	AH-7005	57.0	55.0	56.0	59.7	56.9	60.3	60.5	57.0	66.3	55.3	59.7	59.9
45	IMH 1607	52.0	51.3	57.3	56.3	54.3	57.0	57.0	56.3	62.3	60.7	57.7	58.5
46	DAS-MH-112	56.3	54.7	55.7	61.0	56.9	61.3	61.5	56.3	66.0	60.3	62.7	61.4
	CHECKS												
47	BIO 9682 (C)	56.3	53.0	53.7	60.3	55.8	59.7	58.0	57.7	67.7	60.7	57.3	60.2
48	CMH 08-287 (C)	56.0	56.0	59.3	62.0	58.3	58.3	60.0	55.0	68.3	61.7	56.7	60.0
49	CMH 08-282 (C)	53.7	53.0	55.7	57.3	54.9	58.7	56.0	57.0	65.3	53.3	56.3	57.8
	Loc. Mean	**54.6**	**53.4**	**56.2**	**58.4**	**55.6**	**58.7**	**58.7**	**57.5**	**63.8**	**58.1**	**57.4**	**59.0**
	C.D. (5%)	2.62	0.83	2.07	2.61	2.44	3.39	1.42	1.75	3.03	2.20	2.78	2.22
	C.V. (%)	2.96	0.96	2.27	2.76	3.14	3.56	1.19	1.87	2.94	2.34	2.99	3.30
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 2 (Contd.)

		DAYS TO 50% SILKING							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	RMH 1601	62.0	58.3	61.3	57.3	57.0	55.3	58.7	58.6	58.7	59.3	62.0	58.0	54.0	57.0	58.2	58.0
2	JH 13337	60.7	61.7	61.7	57.7	56.7	55.7	58.0	58.9	56.7	58.7	60.7	56.0	54.0	58.7	57.4	58.5
3	IMH 1528	59.3	61.3	62.0	54.7	57.7	54.3	57.3	58.1	61.3	59.0	60.7	54.7	54.0	57.7	57.9	57.7
4	AH-7210	60.0	58.3	61.7	54.7	53.0	54.3	56.3	56.9	58.7	60.0	59.7	50.7	51.0	55.0	55.8	56.5
5	JH 13094	65.0	63.7	64.7	60.3	58.7	57.7	62.7	61.8	55.3	59.3	63.7	58.7	55.0	62.0	59.0	59.9
6	MAH-14-5	60.7	59.7	63.0	57.7	56.3	56.3	59.0	59.0	60.3	59.3	62.7	54.7	53.5	57.0	57.9	58.8
7	NS 8001	63.0	62.7	62.3	56.7	56.0	55.7	59.7	59.4	61.0	59.0	62.7	55.3	58.0	58.3	59.1	59.3
8	JH 15004	64.0	60.7	63.7	58.7	58.0	57.7	60.3	60.4	59.0	59.3	62.0	59.7	56.0	60.0	59.3	59.2
9	IMH 1526	62.3	62.7	61.7	56.3	54.7	55.3	58.7	58.8	61.7	59.0	59.7	57.7	57.5	58.7	59.0	57.9
10	BIO 716	63.3	60.7	63.0	57.3	56.7	56.3	59.0	59.5	59.3	59.0	61.7	57.0	53.5	62.0	58.8	58.8
11	IMH 1602	59.7	59.0	60.3	55.0	56.0	54.3	57.7	57.4	59.0	59.0	59.3	54.7	52.0	55.0	56.5	56.6
12	JH 15135	60.7	58.7	61.7	56.3	56.3	54.7	58.3	58.1	62.3	59.7	61.0	54.7	53.0	58.3	58.2	57.8
13	JH 13227	62.0	62.3	62.3	56.7	56.7	55.7	59.0	59.2	61.3	59.7	62.3	57.7	56.5	60.0	59.6	58.9
14	AH-1602	61.0	61.7	61.3	54.7	54.3	55.3	57.3	58.0	59.0	59.3	59.0	56.7	53.0	56.0	57.2	57.4
15	MH 25	61.7	58.3	62.7	56.0	56.0	55.0	57.7	58.2	58.3	58.7	60.7	54.7	53.0	57.7	57.2	57.8
16	NRI MH4	61.3	58.7	62.0	-	55.3	56.3	58.3	58.7	61.7	59.0	62.0	55.7	53.0	61.0	58.7	58.3
17	AH-7188	56.0	55.0	57.0	52.0	52.0	50.0	54.0	53.7	55.7	59.7	57.7	50.7	51.0	52.3	54.5	53.9
18	QMH-1478	59.0	57.7	61.0	54.3	54.7	54.7	56.0	56.8	58.0	59.0	59.0	53.3	52.0	56.3	56.3	56.4
19	IMH 1610	61.7	59.0	61.3	54.7	56.7	54.7	58.0	58.0	58.3	58.3	58.3	53.7	53.0	60.0	56.9	57.4
20	NS 8181	63.0	61.3	62.7	57.7	58.7	58.3	59.0	60.1	58.7	58.0	63.0	59.7	55.0	59.0	58.9	59.3
21	IMH 1533	59.7	57.0	62.0	54.3	54.3	55.3	54.7	56.8	58.7	59.7	60.0	51.7	52.5	55.7	56.4	56.6
22	IMH 1527	61.7	58.0	61.3	55.7	56.3	55.3	56.3	57.8	58.3	59.7	59.3	53.7	54.5	57.7	57.2	57.2
23	SVMH-55	61.3	59.0	61.3	53.7	55.7	56.7	58.7	58.0	60.0	57.7	62.3	55.3	52.0	57.3	57.4	57.7
24	JH 15106	62.3	61.0	64.3	58.0	57.0	57.7	59.7	60.0	62.3	57.7	63.7	55.7	54.0	61.3	59.1	59.2
25	BIO 274	64.3	60.0	61.0	56.3	55.0	54.7	57.0	58.3	57.7	59.7	62.3	56.7	50.5	58.7	57.6	58.5
26	QMH-1435	56.7	55.7	60.3	50.7	50.0	51.0	52.0	53.8	59.3	59.0	58.7	50.7	50.0	51.7	54.9	54.1
27	AH-1601	60.0	58.0	61.3	55.0	55.0	54.7	58.3	57.5	59.0	59.3	60.0	54.7	52.0	55.7	56.8	57.4
28	JH 13023	62.0	62.3	63.0	58.3	59.3	57.3	58.0	60.0	58.7	59.0	61.0	59.7	54.0	60.0	58.7	59.4
29	WH-1095	58.0	56.7	59.0	53.7	55.3	56.3	56.3	56.5	58.7	58.3	60.0	52.7	51.0	56.0	56.1	56.4
30	DAS-MH-113	61.3	60.3	61.7	55.7	55.7	54.0	56.7	57.9	55.0	59.7	61.0	57.3	52.0	58.7	57.3	57.8
31	MMH 1302	62.7	58.3	63.3	57.0	56.7	56.7	58.0	59.0	56.0	59.0	61.3	57.7	52.0	58.7	57.4	58.1
32	QMH-1472	58.0	57.7	61.3	53.3	52.3	54.7	56.0	56.2	58.7	58.3	60.0	52.7	50.5	56.7	56.1	56.1
33	CAH-1533	63.0	58.7	62.0	57.7	55.7	55.3	60.0	58.9	58.3	58.7	61.0	53.3	52.0	60.0	57.2	58.1
34	RMH 815	61.7	62.0	61.7	55.7	56.3	55.7	57.0	58.6	62.7	58.3	61.3	55.3	50.0	59.0	57.8	57.7

TABLE No. 2 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% SILKING HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
35	JH 15080	61.3	58.3	61.3	57.0	56.7	54.7	57.7	58.1	61.7	58.7	61.0	56.3	57.5	56.7	58.6	58.4
36	IMH 1608	63.0	59.0	65.0	57.3	57.7	57.7	61.3	60.1	57.3	59.7	63.7	55.7	53.5	57.3	57.9	58.7
37	IMH 1547	59.0	57.7	61.3	55.7	53.7	54.3	56.0	56.8	56.7	59.0	58.7	52.7	54.5	54.7	56.0	56.3
38	JH 15130	62.3	58.3	61.7	56.0	57.3	56.3	56.7	58.4	59.7	59.0	60.7	56.7	52.0	57.7	57.6	58.3
39	JH 15011	64.0	62.0	64.0	58.0	59.0	57.7	60.7	60.8	61.7	59.3	63.3	59.7	55.0	61.7	60.1	60.0
40	IMH 1601	63.7	59.3	61.3	56.0	55.3	54.3	57.3	58.2	60.0	59.7	59.7	55.7	53.5	56.7	57.5	57.6
41	MH 26	61.7	59.3	61.7	56.0	54.7	54.3	57.7	57.9	57.7	59.3	60.3	54.3	52.0	55.7	56.6	57.1
42	QMH-1470	57.3	57.3	60.3	53.3	51.3	53.3	54.3	55.3	57.0	59.0	58.7	52.7	53.0	54.0	55.7	55.8
43	BIO 509	61.0	61.7	63.0	56.7	53.3	55.0	58.0	58.4	58.7	59.3	62.0	58.7	56.0	59.0	58.9	59.3
44	AH-7005	63.0	59.7	62.7	57.3	56.3	57.7	59.0	59.4	59.0	59.0	63.0	58.0	56.0	59.3	59.1	59.0
45	IMH 1607	61.3	60.0	62.0	55.0	55.3	57.3	58.0	58.4	59.3	59.3	60.0	51.7	54.0	55.7	56.7	57.3
46	DAS-MH-112	64.3	61.0	63.3	57.0	56.0	56.7	59.0	59.6	60.7	59.0	63.3	58.3	55.0	61.7	59.7	59.6
	CHECKS																
47	BIO 9682 (C)	63.0	63.0	61.7	55.7	55.0	55.0	60.3	59.1	60.7	59.0	60.7	58.0	54.0	59.0	58.6	58.7
48	CMH 08-287 (C)	63.0	60.3	62.7	56.7	55.7	59.3	59.0	59.5	58.3	58.7	61.7	57.7	53.0	61.0	58.4	59.1
49	CMH 08-282 (C)	59.0	61.7	59.7	53.7	55.3	54.0	55.3	57.0	58.3	59.0	59.0	55.7	53.0	58.0	57.2	56.9
	Loc. Mean	**61.3**	**59.7**	**61.9**	**55.9**	**55.7**	**55.5**	**57.8**	**58.3**	**59.1**	**59.0**	**60.9**	**55.6**	**53.4**	**57.9**	**57.7**	**57.9**
	C.D. (5%)	2.25	1.59	1.69	1.90	1.35	0.92	2.57	1.10	1.28	1.34	1.56	0.75	2.63	1.94	1.77	0.92
	C.V. (%)	2.26	1.64	1.68	2.07	1.50	1.02	2.74	1.79	1.34	1.40	1.58	0.83	2.44	2.07	2.70	2.74
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 2 (Contd.)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	NEPZ ZN 3 Mean
1	RMH 1601	88.0	90.7	99.0	122.7	100.1	87.0	98.5	97.0	92.7	95.7	94.7	94.3
2	JH 13337	84.7	91.7	101.3	118.0	98.9	91.0	96.5	94.0	94.0	93.7	90.3	93.3
3	IMH 1528	89.7	90.7	101.0	122.0	100.8	91.7	98.5	94.0	95.3	97.3	96.0	95.5
4	AH-7210	89.7	89.3	101.3	120.7	100.3	88.3	97.5	95.0	93.0	93.7	92.7	93.4
5	JH 13094	85.3	88.7	101.3	117.3	98.2	86.0	99.5	96.0	94.0	96.7	91.7	94.0
6	MAH-14-5	87.7	90.0	106.3	122.7	101.7	93.0	97.5	97.0	96.7	98.3	93.3	96.0
7	NS 8001	90.3	89.7	103.0	121.7	101.2	96.3	98.5	96.0	94.3	101.3	94.0	96.8
8	JH 15004	88.3	89.0	101.0	120.7	99.8	93.3	99.0	95.0	93.7	93.7	91.7	94.4
9	IMH 1526	88.0	90.7	100.0	122.3	100.3	91.3	97.0	95.0	96.0	93.7	94.7	94.6
10	BIO 716	89.3	88.0	96.7	123.3	99.3	91.7	99.5	94.3	96.3	98.0	96.7	96.1
11	IMH 1602	86.7	88.0	101.7	121.7	99.5	91.0	97.5	96.0	90.0	91.7	93.7	93.3
12	JH 15135	89.3	89.0	99.7	121.7	99.9	94.7	98.0	95.0	96.0	96.3	93.7	95.6
13	JH 13227	86.0	89.3	102.3	122.3	100.0	89.7	96.5	96.0	83.3	96.3	91.0	92.1
14	AH-1602	84.7	85.0	101.0	122.0	98.2	86.3	96.0	94.0	91.3	90.7	90.0	91.4
15	MH 25	88.0	89.0	102.3	121.3	100.2	91.7	99.0	95.0	95.0	95.3	93.7	94.9
16	NRI MH4	88.3	88.3	102.0	122.3	100.3	92.0	-	93.0	93.7	95.3	97.0	94.2
17	AH-7188	84.3	87.7	100.3	117.7	97.5	82.7	95.0	94.0	90.0	87.3	89.3	89.7
18	QMH-1478	88.3	91.3	103.7	122.0	101.3	90.0	96.0	95.0	95.7	92.7	90.7	93.3
19	IMH 1610	86.7	90.7	106.3	118.7	100.6	88.7	98.5	94.0	87.3	94.3	89.3	92.0
20	NS 8181	86.7	85.7	101.3	123.3	99.2	92.0	97.5	95.0	75.0	96.3	94.0	91.6
21	IMH 1533	86.3	89.7	103.3	120.0	99.8	87.7	95.5	96.0	88.3	89.3	91.7	91.4
22	IMH 1527	83.7	89.0	106.0	117.7	99.1	85.0	96.5	94.0	81.7	92.3	90.0	89.9
23	SVMH-55	86.0	85.7	104.0	121.0	99.2	91.3	97.0	94.0	96.7	97.7	92.7	94.9
24	JH 15106	89.3	88.0	106.0	122.0	101.3	92.7	97.0	95.0	96.3	92.3	99.7	95.5
25	BIO 274	89.7	89.3	108.0	124.7	102.9	94.0	96.5	97.0	97.7	98.7	96.3	96.7
26	QMH-1435	87.0	88.3	101.0	116.3	98.2	86.3	97.5	96.3	92.3	87.7	92.7	92.1
27	AH-1601	84.7	87.3	99.3	119.3	97.7	91.3	94.0	93.0	95.7	93.7	87.7	92.6
28	JH 13023	90.3	88.7	101.7	122.3	100.8	94.7	99.5	96.0	94.3	96.3	95.3	96.0
29	WH-1095	84.7	90.0	99.7	118.7	98.3	85.3	95.0	93.0	92.3	91.3	83.7	90.1
30	DAS-MH-113	89.0	84.7	102.3	122.3	99.6	91.3	99.0	94.0	98.0	98.7	99.3	96.7
31	MMH 1302	87.0	88.0	101.0	121.7	99.4	89.0	98.5	95.0	92.7	95.7	93.0	94.0
32	QMH-1472	85.7	87.7	102.3	117.0	98.2	86.7	96.5	95.0	93.7	93.3	90.3	92.6
33	CAH-1533	90.0	91.7	101.0	121.7	101.1	92.0	98.0	97.0	94.0	93.3	91.3	94.3
34	RMH 815	87.0	89.0	100.3	124.0	100.1	89.7	97.5	94.0	93.0	96.7	92.7	93.9

TABLE No. 2 (Contd.)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	NEPZ ZN 3 Mean
35	JH 15080	87.0	87.3	103.7	119.3	99.3	92.3	99.5	94.0	95.0	93.7	91.3	94.3
36	IMH 1608	84.7	85.3	102.0	117.0	97.3	88.7	96.0	96.0	85.0	96.7	93.3	92.6
37	IMH 1547	85.3	87.0	100.7	120.0	98.3	89.7	95.0	94.0	89.0	91.7	89.7	91.5
38	JH 15130	90.0	87.3	102.0	122.0	100.3	94.7	98.0	94.0	94.3	94.7	93.3	94.8
39	JH 15011	87.7	89.3	99.3	120.3	99.2	94.3	98.5	94.0	93.3	99.3	91.3	95.1
40	IMH 1601	88.3	87.7	101.3	119.0	99.1	93.3	96.5	97.0	94.3	88.7	92.0	93.6
41	MH 26	84.0	91.3	103.3	118.0	99.2	88.7	97.0	95.0	93.3	90.3	87.3	91.9
42	QMH-1470	88.0	87.3	106.0	117.7	99.8	88.7	95.0	95.0	93.7	92.0	91.0	92.6
43	BIO 509	89.0	88.0	104.0	125.0	101.5	91.7	99.0	97.0	96.7	99.7	98.7	97.1
44	AH-7005	89.0	91.0	103.3	120.7	101.0	92.7	99.5	96.0	96.7	90.7	94.3	95.0
45	IMH 1607	86.0	88.3	100.0	117.0	97.8	86.7	97.5	94.0	90.7	97.3	91.3	92.9
46	DAS-MH-112	89.3	89.3	101.0	119.7	99.8	90.0	100.0	95.0	96.0	96.3	97.3	95.8
	CHECKS												
47	BIO 9682 (C)	90.0	88.7	102.7	124.0	101.3	92.7	97.5	96.0	95.7	95.3	95.3	95.4
48	CMH 08-287 (C)	87.0	87.0	99.0	121.7	98.7	88.0	98.0	93.0	94.7	91.7	89.3	92.4
49	CMH 08-282 (C)	83.3	91.0	101.7	117.7	98.4	89.7	95.5	94.0	95.0	87.3	87.0	91.4
	Loc. Mean	**87.3**	**88.7**	**102.0**	**120.7**	**99.7**	**90.3**	**97.4**	**95.0**	**92.9**	**94.3**	**92.6**	**93.7**
	C.D. (5%)	3.19	1.03	2.59	3.68	2.66	5.21	2.41	1.54	7.98	2.07	3.21	2.86
	C.V. (%)	2.26	0.72	1.56	1.88	1.91	3.56	1.22	1.00	5.30	1.36	2.14	2.69
	F (Prob)	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 2 (Contd.)

		DAYS TO 75% DRY HUSK							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	RMH 1601	103.7	98.3	107.0	98.0	97.3	97.3	97.0	99.8	87.0	91.3	94.0	92.7	84.0	87.7	89.4	95.7
2	JH 13337	100.0	101.3	101.0	93.7	96.7	97.3	96.0	98.0	85.3	91.0	110.7	90.3	84.0	87.3	91.4	95.2
3	IMH 1528	99.7	101.3	103.0	97.0	97.7	95.7	96.3	98.7	91.7	91.3	92.7	90.7	83.0	88.0	89.6	95.8
4	AH-7210	101.0	99.0	103.0	94.7	92.7	96.0	93.7	97.1	91.0	93.0	87.3	89.0	82.0	89.7	88.7	94.5
5	JH 13094	103.7	103.0	101.0	92.3	98.3	100.3	95.3	99.1	89.3	92.0	95.0	92.3	83.5	89.3	90.3	95.3
6	MAH-14-5	100.0	99.7	103.0	94.3	96.7	98.0	94.3	98.0	91.3	92.0	78.3	92.0	85.0	87.7	87.7	95.4
7	NS 8001	103.0	102.0	111.7	96.7	96.3	97.3	100.0	101.0	92.3	92.3	93.0	91.3	85.0	88.7	90.4	97.2
8	JH 15004	103.3	100.7	106.0	98.7	97.7	100.3	100.0	101.0	90.7	92.0	112.7	92.0	84.0	88.7	93.3	97.0
9	IMH 1526	102.7	102.7	108.0	98.7	94.7	97.7	102.7	101.0	91.0	92.0	90.0	92.7	83.5	88.0	89.5	96.2
10	BIO 716	102.0	100.0	114.7	105.3	96.0	98.3	103.0	102.8	92.7	92.0	102.7	92.3	83.0	92.0	92.4	97.7
11	IMH 1602	97.3	99.7	105.0	95.7	96.7	96.3	100.0	98.7	90.0	91.3	83.7	90.0	82.5	85.0	87.1	94.4
12	JH 15135	100.7	99.3	102.0	92.0	96.0	96.3	95.3	97.4	88.0	92.3	85.3	90.3	80.5	89.0	87.6	94.8
13	JH 13227	102.0	101.0	103.0	93.3	96.3	97.7	96.7	98.6	94.3	91.3	114.0	91.3	84.5	88.3	94.0	95.9
14	AH-1602	100.0	101.7	100.7	92.3	94.0	97.3	95.7	97.4	87.0	91.7	98.7	91.7	81.5	86.3	89.5	93.9
15	MH 25	101.3	100.0	105.0	95.7	96.3	96.7	98.7	99.1	87.7	91.3	95.0	90.7	85.0	88.0	89.6	95.7
16	NRI MH4	102.3	99.7	107.3	-	95.7	98.3	100.0	100.6	94.3	91.7	83.0	91.0	84.5	91.0	89.3	95.8
17	AH-7188	96.3	96.0	102.0	92.0	93.0	91.3	91.7	94.6	86.7	91.7	83.0	89.3	79.0	85.0	85.8	91.5
18	QMH-1478	100.0	98.7	107.7	95.0	95.7	96.7	96.7	98.6	87.3	91.0	85.0	90.7	84.5	86.0	87.4	94.8
19	IMH 1610	102.0	100.0	102.0	93.0	96.7	96.3	96.7	98.1	91.0	91.0	83.3	89.3	83.0	88.7	87.7	94.2
20	NS 8181	103.7	102.0	104.7	95.3	99.3	100.3	97.3	100.4	90.7	90.3	92.7	92.0	83.5	89.0	89.7	95.1
21	IMH 1533	99.3	98.3	105.0	96.0	94.0	97.3	92.0	97.4	90.3	92.0	81.7	88.7	85.0	87.3	87.5	93.7
22	IMH 1527	104.3	99.0	103.0	93.3	96.3	97.3	96.0	98.5	90.7	91.7	86.3	91.7	83.0	88.7	88.7	93.8
23	SVMH-55	105.0	99.3	107.7	96.7	96.3	98.0	97.3	100.0	91.7	89.3	83.0	90.7	82.0	89.0	87.6	95.3
24	JH 15106	104.3	101.3	107.7	99.3	96.3	99.3	101.3	101.4	91.3	89.7	112.3	91.7	84.0	90.3	93.2	97.7
25	BIO 274	106.0	100.7	111.7	98.7	95.0	96.3	100.0	101.2	91.3	92.0	78.0	92.0	81.0	88.0	87.1	96.6
26	QMH-1435	100.0	95.7	101.0	92.7	91.3	93.3	91.3	95.0	91.3	91.3	84.0	91.0	79.5	84.3	86.9	92.7
27	AH-1601	102.0	98.7	102.7	95.0	94.0	96.3	96.3	97.9	91.7	91.7	96.7	91.0	84.5	87.0	90.4	94.5
28	JH 13023	102.0	101.7	103.7	96.0	98.7	99.0	98.0	99.9	91.0	91.7	107.0	93.7	82.5	90.7	92.8	97.2
29	WH-1095	97.7	96.7	102.0	89.3	95.3	98.3	91.0	95.8	89.7	90.7	85.0	89.7	80.0	88.3	87.2	92.5
30	DAS-MH-113	100.7	100.7	110.3	99.3	95.7	95.7	97.7	100.0	88.0	92.3	90.0	93.0	82.0	88.7	89.0	96.2
31	MMH 1302	103.3	99.3	107.7	99.3	96.3	98.7	98.3	100.4	85.7	91.0	96.7	91.7	81.5	88.7	89.2	95.6
32	QMH-1472	97.3	98.0	104.7	94.3	93.0	96.7	94.7	97.0	88.7	91.7	99.0	89.3	80.5	86.7	89.3	94.0
33	CAH-1533	105.0	99.0	106.0	98.3	96.0	97.3	99.0	100.1	91.3	91.7	80.7	91.7	84.0	90.0	88.2	95.7
34	RMH 815	103.3	101.3	110.3	96.0	96.0	97.3	99.7	100.6	93.3	91.3	80.3	92.0	80.5	90.0	87.9	95.4

TABLE No. 2 (Contd.)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
35	JH 15080	99.7	99.0	103.0	95.7	96.3	96.7	97.3	98.2	94.7	91.3	107.3	91.3	83.0	87.0	92.4	95.9
36	IMH 1608	105.0	100.0	110.0	96.3	97.3	100.3	98.7	101.1	90.7	92.0	79.3	90.0	85.0	88.0	87.5	94.7
37	IMH 1547	99.7	98.3	105.0	95.0	94.3	95.7	95.7	97.7	87.7	91.3	89.3	89.3	84.0	85.3	87.8	93.6
38	JH 15130	102.0	99.3	109.3	96.3	96.7	98.3	97.0	99.9	90.3	92.0	116.0	92.7	82.0	89.7	93.8	97.0
39	JH 15011	105.0	102.0	114.3	97.3	98.0	99.7	98.3	102.1	93.3	92.0	103.3	92.7	82.0	91.0	92.4	97.2
40	IMH 1601	102.3	100.3	103.7	93.7	95.7	95.7	95.7	98.1	90.0	91.7	87.0	90.0	84.0	86.3	88.2	94.5
41	MH 26	100.7	100.7	102.7	92.3	95.0	96.3	95.3	97.6	89.0	92.0	97.3	90.0	80.0	90.0	89.7	94.3
42	QMH-1470	100.3	98.0	104.0	92.7	92.3	95.3	93.3	96.6	85.3	91.7	96.0	89.7	80.0	83.7	87.7	93.8
43	BIO 509	101.0	102.3	106.0	96.0	93.3	97.0	99.0	99.2	87.3	91.0	105.0	93.3	84.5	89.3	91.8	97.1
44	AH-7005	105.0	100.3	107.0	95.7	95.3	99.7	99.0	100.3	91.3	91.7	86.0	93.0	83.5	89.3	89.1	96.1
45	IMH 1607	102.3	100.7	108.3	97.3	95.7	100.0	99.7	100.6	89.3	92.3	81.7	90.7	84.0	88.0	87.7	94.7
46	DAS-MH-112	102.0	101.0	106.7	97.3	96.0	98.3	99.3	100.1	91.7	91.3	74.7	93.3	82.5	92.0	87.6	95.7
	CHECKS																
47	BIO 9682 (C)	105.3	103.0	112.0	97.7	95.0	97.0	102.0	101.7	91.3	91.3	98.7	93.0	83.0	90.3	91.3	97.3
48	CMH 08-287 (C)	101.7	101.3	104.7	96.3	95.0	101.3	95.7	99.4	90.3	90.3	115.3	91.0	83.5	91.7	93.7	96.0
49	CMH 08-282 (C)	100.0	101.7	101.0	88.7	95.3	95.7	90.3	96.1	88.3	91.7	112.0	91.0	81.0	89.3	92.2	94.3
	Loc. Mean	**101.8**	**100.1**	**105.7**	**95.5**	**95.7**	**97.4**	**97.1**	**99.1**	**90.1**	**91.5**	**93.3**	**91.2**	**82.8**	**88.4**	**89.6**	**95.3**
	C.D. (5%)	2.73	1.87	5.35	3.36	1.67	0.81	4.27	1.96	1.35	1.61	11.85	1.90	4.18	2.31	5.49	1.81
	C.V. (%)	1.66	1.16	3.12	2.15	1.08	0.51	2.71	1.88	0.92	1.09	7.84	1.28	2.51	1.61	5.39	3.28
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.21	0.00	0.17	0.00

TABLE No. 2 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	NEPZ ZN 3 Mean
1	RMH 1601	223.3	203.0	193.3	241.3	215.3	137.3	167.0	183.3	162.3	157.5	190.7	166.4
2	JH 13337	248.3	219.3	199.7	271.0	234.6	150.7	196.6	175.7	185.0	174.0	227.7	184.9
3	IMH 1528	206.7	219.7	180.0	237.7	211.0	124.7	167.3	179.3	152.3	160.2	197.0	163.5
4	AH-7210	240.0	196.3	197.0	249.7	220.8	140.7	173.0	184.0	161.7	152.9	191.3	167.3
5	JH 13094	240.0	216.0	180.0	271.7	226.9	159.0	201.4	181.3	181.7	160.1	208.3	182.0
6	MAH-14-5	228.3	224.7	203.3	256.3	228.2	123.0	190.1	172.3	156.7	150.5	201.0	165.6
7	NS 8001	268.3	186.7	206.7	282.3	236.0	151.7	184.1	183.0	168.3	178.2	222.0	181.2
8	JH 15004	245.0	183.7	198.3	280.7	226.9	152.0	202.2	180.0	181.7	173.8	214.7	184.1
9	IMH 1526	226.7	187.0	199.3	267.0	220.0	140.7	188.6	181.3	156.7	169.3	192.7	171.5
10	BIO 716	236.7	219.3	199.7	263.3	229.8	146.7	186.4	183.0	171.7	173.3	209.3	178.4
11	IMH 1602	208.3	221.3	196.0	248.7	218.6	117.3	190.3	182.0	161.7	174.0	185.3	168.4
12	JH 15135	218.3	183.0	192.7	274.0	217.0	151.7	204.8	174.0	171.7	176.1	229.0	184.5
13	JH 13227	253.3	213.3	195.7	287.3	237.4	159.7	191.5	183.7	181.7	170.7	222.7	185.0
14	AH-1602	238.3	175.3	193.3	285.0	223.0	157.3	191.8	182.0	173.3	174.5	218.0	182.8
15	MH 25	238.3	227.3	183.7	247.7	224.3	151.7	192.8	179.7	171.7	186.6	217.0	183.2
16	NRI MH4	228.3	183.0	185.3	260.7	214.3	139.7	-	179.7	156.7	149.6	199.3	165.0
17	AH-7188	206.7	181.0	187.3	237.0	203.0	121.3	175.2	182.7	166.7	162.9	179.0	164.6
18	QMH-1478	221.7	157.3	184.3	262.3	206.4	141.7	189.3	179.3	148.3	183.7	210.0	175.4
19	IMH 1610	205.0	240.3	188.3	255.3	222.3	161.3	169.6	180.3	158.3	142.2	195.0	167.8
20	NS 8181	235.0	223.0	180.0	250.0	222.0	140.3	190.6	178.3	176.7	167.6	211.7	177.5
21	IMH 1533	201.7	184.7	191.0	247.3	206.2	131.7	181.2	178.7	145.0	170.2	194.3	166.8
22	IMH 1527	221.7	187.7	200.3	265.0	218.7	143.0	186.8	173.0	178.3	161.0	213.0	175.9
23	SVMH-55	188.3	223.3	198.0	243.0	213.2	137.0	172.1	183.3	156.7	167.0	180.3	166.1
24	JH 15106	211.7	211.7	192.0	259.7	218.8	137.3	178.8	185.0	163.3	173.0	193.7	171.9
25	BIO 274	211.7	181.0	181.0	253.7	206.8	118.0	191.1	181.0	170.0	161.9	204.7	171.1
26	QMH-1435	188.3	161.3	189.0	236.0	193.7	109.7	177.8	179.7	153.3	173.1	168.3	160.3
27	AH-1601	215.0	197.7	180.0	263.3	214.0	149.7	179.2	184.7	168.3	175.3	209.0	177.7
28	JH 13023	245.0	188.3	178.3	299.3	227.8	132.3	190.5	177.3	183.3	167.3	231.3	180.4
29	WH-1095	208.3	203.0	193.3	235.3	210.0	122.3	186.5	180.7	151.7	160.4	195.3	166.2
30	DAS-MH-113	216.7	224.0	200.7	250.0	222.8	129.0	168.8	182.7	163.3	148.3	195.0	164.5
31	MMH 1302	243.3	196.3	183.0	239.3	215.5	145.3	178.1	182.0	160.0	156.9	194.7	169.5
32	QMH-1472	223.3	200.0	186.7	248.0	214.5	128.0	175.2	175.3	171.7	174.3	203.7	171.4
33	CAH-1533	228.3	192.3	197.3	257.3	218.8	132.3	184.9	185.7	135.0	155.9	196.3	165.0
34	RMH 815	213.3	190.3	185.7	252.0	210.3	122.3	172.5	186.7	168.3	159.2	195.3	167.4

TABLE No. 2 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	NEPZ ZN 3 Mean
35	JH 15080	278.3	188.3	201.7	271.7	235.0	128.3	192.3	180.7	180.0	176.4	229.7	181.2
36	IMH 1608	193.3	227.7	198.0	216.0	208.8	134.7	153.4	185.0	168.3	144.9	175.3	160.3
37	IMH 1547	216.7	179.3	178.3	264.0	209.6	136.3	192.8	178.7	168.3	168.5	204.3	174.8
38	JH 15130	258.3	196.3	197.7	289.3	235.4	161.3	193.4	185.3	176.7	174.2	239.7	188.4
39	JH 15011	255.0	173.0	185.3	261.7	218.8	143.0	202.0	187.0	171.7	166.2	202.3	178.7
40	IMH 1601	208.3	199.0	192.0	263.0	215.6	129.7	178.1	177.0	161.7	155.7	199.7	167.0
41	MH 26	216.7	198.7	191.3	253.3	215.0	149.7	190.6	173.0	146.7	182.1	199.0	173.5
42	QMH-1470	238.3	215.0	192.0	261.7	226.8	120.7	197.4	177.7	170.0	174.2	204.3	174.0
43	BIO 509	223.3	186.0	200.0	252.3	215.4	129.7	175.9	181.0	171.7	167.7	186.7	168.8
44	AH-7005	225.0	184.3	193.0	261.7	216.0	124.0	177.9	177.7	141.7	163.3	199.3	164.0
45	IMH 1607	210.0	192.3	187.3	234.0	205.9	146.3	161.0	179.0	173.3	153.3	185.3	166.4
46	DAS-MH-112	215.0	197.0	184.7	269.7	216.6	127.3	179.6	182.7	161.7	146.3	189.7	164.5
	CHECKS												
47	BIO 9682 (C)	248.3	186.7	200.7	257.0	223.2	140.0	183.1	175.3	148.3	166.7	208.7	170.4
48	CMH 08-287 (C)	270.0	253.0	200.3	278.0	250.3	163.7	191.8	189.3	166.7	187.8	217.7	186.2
49	CMH 08-282 (C)	230.0	185.0	189.0	279.3	220.8	159.7	188.2	182.7	171.7	185.2	228.3	186.0
	Loc. Mean	**226.9**	**199.3**	**191.7**	**259.0**	**219.2**	**138.8**	**184.0**	**180.7**	**165.1**	**166.4**	**203.4**	**173.0**
	C.D. (5%)	23.00	4.47	12.04	17.25	21.86	28.05	17.10	5.82	14.71	26.26	18.93	10.89
	C.V. (%)	6.25	1.38	3.87	4.11	7.13	12.47	4.57	1.99	5.50	9.74	5.74	5.53
	F (Prob)	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.06	0.00	0.00

TABLE No. 2 (Contd.)

		PLANT HEIGHT(cm)							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	RMH 1601	199.0	147.7	223.7	213.0	158.1	182.9	198.3	189.0	146.7	181.7	191.0	241.5	143.0	160.6	177.4	184.6
2	JH 13337	236.7	178.0	259.3	241.0	172.4	189.8	206.7	212.0	195.0	165.0	210.7	270.7	143.0	179.9	194.1	204.2
3	IMH 1528	192.7	130.7	203.7	220.0	155.0	169.4	181.7	179.0	200.0	156.7	187.3	228.9	188.5	145.2	184.4	181.9
4	AH-7210	206.0	134.3	232.7	212.7	153.0	166.3	186.7	184.5	161.7	160.0	183.0	240.3	169.0	138.1	175.3	183.9
5	JH 13094	226.3	178.7	242.3	237.7	158.0	178.3	191.7	201.8	170.0	173.3	202.3	265.9	151.0	169.9	188.8	197.6
6	MAH-14-5	221.0	151.3	224.0	208.3	167.5	188.0	186.7	192.4	190.0	158.3	186.3	250.6	147.5	158.0	181.8	188.9
7	NS 8001	233.3	163.0	265.7	245.3	152.7	208.1	211.7	211.4	180.0	175.0	191.0	256.4	167.5	180.0	191.7	202.7
8	JH 15004	229.7	193.7	262.0	248.0	168.8	208.9	205.0	216.6	185.0	170.0	226.3	277.9	159.0	203.9	203.7	206.5
9	IMH 1526	198.0	159.7	243.7	222.0	153.8	178.8	196.7	193.2	161.7	156.7	195.0	249.4	162.5	150.2	179.2	188.6
10	BIO 716	220.7	164.0	244.0	241.0	174.9	203.9	200.0	206.9	190.0	160.0	216.7	254.7	151.0	154.7	187.9	198.5
11	IMH 1602	192.7	156.7	222.7	215.0	140.9	194.3	191.7	187.7	208.3	146.7	190.0	233.1	136.5	163.7	179.7	186.0
12	JH 15135	243.7	180.3	242.7	216.0	173.8	197.6	220.0	210.6	188.3	175.0	193.7	259.5	161.5	174.7	192.1	200.1
13	JH 13227	252.0	180.7	262.0	237.7	174.5	203.7	203.3	216.3	201.7	180.0	223.7	269.5	132.5	171.5	196.5	206.6
14	AH-1602	212.0	171.3	241.0	222.3	162.0	204.7	206.7	202.9	153.3	175.0	206.0	258.5	151.5	166.6	185.2	196.5
15	MH 25	225.0	185.3	247.7	232.3	161.5	198.5	191.7	206.0	196.7	175.0	213.0	246.9	134.0	172.1	189.6	199.0
16	NRI MH4	201.7	149.7	232.0	-	176.1	184.3	205.0	191.5	185.0	173.3	187.7	245.2	151.5	139.9	180.4	186.4
17	AH-7188	194.3	151.0	207.7	197.0	133.1	181.3	173.3	176.8	126.7	161.7	165.3	227.7	170.0	159.6	168.5	176.0
18	QMH-1478	211.7	161.7	243.0	218.0	133.9	207.3	190.0	195.1	205.0	175.0	180.0	253.1	168.5	164.4	191.0	190.8
19	IMH 1610	213.0	167.0	227.7	247.3	170.3	160.1	183.3	195.5	165.0	170.0	190.0	244.5	145.0	157.7	178.7	188.6
20	NS 8181	210.7	171.7	257.7	240.7	131.1	191.3	210.0	201.9	200.0	180.0	203.3	257.3	171.0	151.3	193.8	196.9
21	IMH 1533	184.3	134.3	205.3	191.7	163.1	171.5	148.3	171.2	185.0	165.0	175.7	213.2	143.5	134.5	169.5	175.7
22	IMH 1527	212.7	164.3	235.0	207.7	149.2	182.8	205.0	193.8	165.0	171.7	185.0	241.9	156.0	163.3	180.5	190.0
23	SVMH-55	192.0	139.7	226.0	207.3	130.1	183.0	140.7	174.1	215.0	180.0	183.7	218.7	141.0	148.6	181.2	180.6
24	JH 15106	203.3	160.3	230.3	222.7	145.5	164.5	191.7	188.3	181.7	170.0	206.7	246.7	144.0	156.1	184.2	188.2
25	BIO 274	188.0	145.7	233.7	207.7	154.3	170.6	203.3	186.2	175.0	168.3	161.0	239.0	173.5	137.0	175.6	183.1
26	QMH-1435	208.3	139.7	206.3	182.7	145.6	185.1	183.3	178.7	165.0	168.3	184.3	220.3	153.5	152.1	173.9	175.3
27	AH-1601	227.3	167.0	232.7	223.3	162.9	205.3	188.3	201.0	201.7	175.0	205.0	247.1	163.5	166.9	193.2	195.1
28	JH 13023	213.3	166.0	245.3	233.3	144.3	195.1	200.0	199.6	166.7	168.3	201.3	262.9	115.0	170.9	180.8	194.6
29	WH-1095	218.0	154.7	230.0	206.0	180.8	153.8	198.3	191.7	175.0	168.3	183.0	228.7	161.0	161.9	179.7	185.1
30	DAS-MH-113	204.0	147.0	224.0	212.3	151.9	190.6	176.7	186.6	178.3	160.0	194.7	232.3	140.5	165.0	178.5	185.0
31	MMH 1302	213.3	159.3	235.3	226.7	165.0	174.9	196.7	195.9	215.0	183.3	197.0	257.4	157.5	166.9	196.2	192.5
32	QMH-1472	204.7	147.7	230.7	223.3	143.0	181.4	180.0	187.3	200.0	153.3	202.7	247.5	170.0	152.9	187.7	188.0
33	CAH-1533	209.7	148.3	220.7	211.7	157.1	175.8	171.7	185.0	165.0	156.7	176.3	226.1	159.0	134.0	169.5	181.6
34	RMH 815	207.7	142.3	222.3	216.3	158.4	184.2	180.0	187.3	203.3	161.7	183.7	235.3	153.5	146.5	180.7	184.4

TABLE No. 2 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
35	JH 15080	213.0	176.7	260.7	225.3	157.6	201.9	210.0	206.5	188.3	188.3	217.3	263.5	141.0	177.8	196.0	202.1
36	IMH 1608	184.3	143.0	208.7	196.7	145.7	116.1	185.0	168.5	165.0	168.3	183.0	209.2	160.0	133.6	169.9	173.7
37	IMH 1547	204.0	161.0	229.0	224.0	140.1	200.4	196.7	193.6	191.7	161.7	189.7	254.5	155.0	166.0	186.4	189.6
38	JH 15130	243.3	189.0	260.7	234.3	175.3	210.2	218.3	218.7	205.0	166.7	224.3	254.8	151.5	192.5	199.1	208.6
39	JH 15011	224.3	180.0	262.0	249.7	174.1	185.8	210.0	212.3	190.0	151.7	217.7	271.7	153.5	172.5	192.9	199.6
40	IMH 1601	199.3	158.0	235.0	212.7	128.0	193.2	196.7	189.0	186.7	173.3	192.0	226.5	145.5	168.6	182.1	186.1
41	MH 26	210.0	163.0	243.3	216.0	170.3	187.9	198.3	198.4	190.0	165.0	190.7	247.0	155.5	166.0	185.7	191.5
42	QMH-1470	206.0	148.7	237.3	215.3	142.5	183.3	210.0	191.9	195.0	156.7	189.3	239.0	147.0	171.5	183.1	191.0
43	BIO 509	211.3	154.7	224.3	201.7	170.4	192.8	201.7	193.8	173.3	151.7	185.7	246.3	158.0	159.7	179.1	187.2
44	AH-7005	198.7	149.0	220.0	204.0	160.4	157.3	186.7	182.3	165.0	161.7	187.0	236.3	157.5	152.9	176.7	181.9
45	IMH 1607	188.7	163.3	214.3	198.3	159.8	147.9	166.7	177.0	161.7	178.3	180.3	227.9	154.0	142.7	174.1	178.5
46	DAS-MH-112	193.3	140.7	229.7	194.7	142.5	179.5	183.3	180.5	188.3	155.0	192.7	228.5	162.0	132.7	176.5	181.6
	CHECKS																
47	BIO 9682 (C)	211.0	164.3	239.0	221.0	163.0	174.8	195.0	195.5	178.3	165.0	191.0	245.1	135.0	142.9	176.2	188.7
48	CMH 08-287 (C)	226.3	192.0	263.3	258.3	170.9	152.5	210.0	210.5	195.0	171.7	226.0	255.9	159.0	184.7	198.7	208.0
49	CMH 08-282 (C)	229.0	172.7	250.3	226.7	156.3	190.1	221.7	206.7	188.3	168.3	216.0	255.5	160.0	171.5	193.3	200.2
	Loc. Mean	**211.2**	**160.2**	**235.5**	**220.1**	**156.7**	**183.5**	**193.8**	**194.3**	**182.9**	**167.4**	**195.2**	**245.1**	**153.7**	**160.3**	**184.1**	**190.4**
	C.D. (5%)	22.30	12.25	12.66	22.44	6.59	6.14	29.01	11.94	9.18	27.71	12.87	17.49	35.66	24.56	14.94	7.04
	C.V. (%)	6.51	4.72	3.32	6.22	2.59	2.06	9.24	5.84	3.10	10.22	4.07	4.40	11.54	9.45	7.14	6.39
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.45	0.00	0.00	0.00

TABLE No. 2 (Contd.)

		EAR HEIGHT(cm)				NWPZ ZN 2							NEPZ ZN 3
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	Mean
1	RMH 1601	118.3	117.7	72.3	84.0	98.1	67.3	72.1	87.0	80.7	64.7	93.3	77.5
2	JH 13337	146.7	125.7	82.3	124.3	119.8	72.3	100.6	82.0	98.3	80.8	123.3	92.9
3	IMH 1528	133.3	104.0	92.7	105.0	108.8	55.7	78.1	85.0	88.3	66.0	109.3	80.4
4	AH-7210	146.7	97.3	91.7	93.7	107.3	67.3	80.8	87.7	93.3	57.5	101.3	81.3
5	JH 13094	140.0	116.0	100.0	108.0	116.0	75.7	91.1	85.3	83.3	69.3	108.0	85.5
6	MAH-14-5	121.7	113.3	106.7	95.7	109.3	57.3	86.7	72.3	76.7	60.7	98.7	75.4
7	NS 8001	156.7	85.0	104.0	119.3	116.3	71.3	94.9	86.0	93.3	68.4	121.0	89.2
8	JH 15004	135.0	100.7	98.0	119.7	113.3	73.0	96.6	83.3	95.0	75.4	117.3	90.1
9	IMH 1526	121.7	101.0	96.0	105.0	105.9	59.7	84.6	85.0	80.0	66.7	97.0	78.8
10	BIO 716	138.3	130.7	92.7	133.0	123.7	68.0	89.5	86.3	103.3	72.3	111.3	88.5
11	IMH 1602	115.0	117.7	96.0	106.7	108.8	58.0	87.6	87.3	85.0	76.6	105.0	83.3
12	JH 15135	120.0	77.3	94.3	103.7	98.8	70.7	94.4	80.7	91.7	72.3	121.7	88.6
13	JH 13227	150.0	132.3	92.0	115.7	122.5	80.0	87.9	85.3	88.3	67.7	120.0	88.2
14	AH-1602	135.0	90.3	92.3	121.0	109.7	70.7	79.0	84.3	96.7	74.7	116.3	86.9
15	MH 25	135.0	109.7	96.7	95.3	109.2	70.0	92.8	80.0	91.7	78.1	104.7	86.2
16	NRI MH4	125.0	105.0	92.3	101.0	105.8	60.0	-	86.3	86.7	63.4	106.7	80.6
17	AH-7188	113.3	95.0	94.7	106.3	102.3	53.7	73.2	82.7	86.7	70.3	92.0	76.4
18	QMH-1478	123.3	85.0	91.7	116.0	104.0	71.3	89.2	82.7	86.7	74.0	112.0	86.0
19	IMH 1610	96.7	130.3	93.7	93.3	103.5	75.7	68.2	85.0	85.0	68.7	99.0	80.3
20	NS 8181	126.7	111.0	91.0	98.3	106.8	74.0	77.7	83.0	83.3	63.7	111.7	82.2
21	IMH 1533	118.3	98.3	94.7	103.0	103.6	56.3	81.9	83.7	73.3	74.0	104.0	78.9
22	IMH 1527	128.3	102.0	93.3	102.3	106.5	63.0	89.6	77.3	90.0	63.7	116.7	83.4
23	SVMH-55	111.7	122.0	91.3	111.7	109.2	68.0	90.0	83.3	93.3	68.1	95.7	83.1
24	JH 15106	130.0	110.0	97.0	115.0	113.0	67.3	83.5	83.7	93.3	73.3	120.7	87.0
25	BIO 274	121.7	95.7	92.0	120.7	107.5	58.7	96.2	84.7	100.0	78.0	128.0	90.9
26	QMH-1435	100.0	63.7	95.7	85.3	86.2	50.7	90.0	81.0	78.3	67.2	88.7	76.0
27	AH-1601	126.7	92.0	101.0	113.0	108.2	68.3	87.7	84.3	81.7	65.7	112.3	83.3
28	JH 13023	145.0	96.7	90.3	146.7	119.7	64.7	88.4	76.7	111.7	75.5	135.7	92.1
29	WH-1095	123.3	95.7	95.3	97.7	103.0	56.7	86.9	82.7	88.3	65.8	107.0	81.2
30	DAS-MH-113	123.3	107.3	102.0	111.7	111.1	62.3	79.3	82.3	85.0	53.7	99.0	76.9
31	MMH 1302	148.3	108.0	99.3	107.3	115.8	73.7	81.6	82.3	83.3	63.9	105.0	81.6
32	QMH-1472	133.3	120.3	94.0	113.0	115.2	60.3	87.0	78.0	86.7	82.6	116.0	85.1
33	CAH-1533	123.3	85.3	97.0	81.7	96.8	63.0	78.8	83.0	71.7	62.3	101.7	76.7
34	RMH 815	116.7	141.0	91.7	110.3	114.9	61.3	76.9	88.3	88.3	62.5	102.7	80.0

TABLE No. 2 (Contd.)

		EAR HEIGHT(cm)				NWPZ ZN 2							NEPZ ZN 3
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	SABO	Mean
35	JH 15080	160.0	104.3	93.0	119.7	119.3	56.7	92.5	84.7	90.0	82.1	131.3	89.5
36	IMH 1608	118.3	118.7	101.7	100.0	109.7	69.7	63.4	86.3	86.7	63.4	93.0	77.1
37	IMH 1547	125.0	107.0	99.7	109.7	110.3	64.7	80.0	79.3	83.3	70.7	105.3	80.6
38	JH 15130	150.0	101.3	98.3	121.0	117.7	77.0	90.5	87.3	91.7	73.9	134.7	92.5
39	JH 15011	143.3	75.7	95.7	104.7	104.8	67.0	90.7	86.7	96.7	69.2	118.7	88.1
40	IMH 1601	116.7	103.7	89.0	109.0	104.6	55.3	79.2	80.7	81.7	59.6	108.7	77.5
41	MH 26	123.3	104.3	75.0	104.3	101.8	69.7	83.0	78.7	70.0	79.3	102.7	80.6
42	QMH-1470	136.7	114.7	75.3	111.0	109.4	61.3	105.3	82.0	98.3	80.7	110.7	89.7
43	BIO 509	141.7	108.3	67.3	124.0	110.3	66.3	85.7	81.3	96.7	80.0	108.0	86.3
44	AH-7005	131.7	89.0	71.0	121.3	103.3	56.3	88.7	85.3	85.0	69.4	119.0	84.0
45	IMH 1607	133.3	117.0	84.0	97.7	108.0	66.7	74.3	81.0	90.0	57.1	101.0	78.4
46	DAS-MH-112	115.0	92.3	74.7	114.7	99.2	60.0	76.9	83.0	81.7	57.6	92.7	75.3
	CHECKS												
47	BIO 9682 (C)	150.0	105.0	67.7	119.3	110.5	69.0	96.1	81.0	88.3	66.9	117.0	86.4
48	CMH 08-287 (C)	155.0	132.3	61.7	118.7	116.9	79.0	85.0	89.7	88.3	82.2	121.3	90.9
49	CMH 08-282 (C)	128.3	102.0	69.3	122.0	105.4	80.0	89.6	82.0	90.0	80.1	126.7	91.4
	Loc. Mean	**130.1**	**105.3**	**90.4**	**109.4**	**108.8**	**65.8**	**85.5**	**83.2**	**88.1**	**69.8**	**110.1**	**83.7**
	C.D. (5%)	19.74	3.47	9.26	8.51	18.26	19.18	12.65	3.99	11.82	20.47	13.64	7.58
	C.V. (%)	9.36	2.04	6.32	4.80	12.01	17.99	7.28	2.95	8.28	18.10	7.65	7.96
	F (Prob)	0.00	0.00	0.00	0.00	0.20	0.25	0.00	0.00	0.00	0.41	0.00	0.00

Locations Rejected due to High C.V.: GODHRA 21.4%

TABLE No. 2 (Contd.)

		EAR HEIGHT(cm)							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	RMH 1601	80.0	45.3	103.0	115.0	80.4	104.5	83.3	87.4	55.0	81.7	97.0	94.4	61.5	80.3	81.7	85.3
2	JH 13337	109.7	73.7	122.3	132.3	95.2	105.0	93.3	104.5	86.7	80.0	97.0	120.5	68.5	90.0	94.8	101.9
3	IMH 1528	88.0	42.7	102.3	100.3	81.7	102.2	88.3	86.5	95.0	70.0	97.7	99.4	95.0	72.6	86.9	89.0
4	AH-7210	85.7	41.7	104.0	120.7	81.7	94.7	85.0	87.6	81.7	75.0	97.0	94.7	82.5	69.1	83.5	88.6
5	JH 13094	89.0	60.0	111.3	134.0	84.0	115.3	78.3	96.0	85.0	83.3	93.3	98.3	63.5	85.0	89.0	95.2
6	MAH-14-5	85.0	48.3	101.7	112.7	86.1	100.1	66.7	85.8	80.0	73.3	97.7	87.0	62.5	79.0	83.4	86.7
7	NS 8001	93.7	58.0	121.0	137.7	81.1	118.3	90.0	100.0	84.3	81.7	98.3	106.3	65.0	90.0	92.1	98.2
8	JH 15004	94.0	77.3	124.0	139.3	86.5	108.9	90.0	102.9	84.0	81.7	99.3	115.6	75.0	101.9	96.5	99.8
9	IMH 1526	74.0	51.7	109.0	117.3	78.9	100.0	78.3	87.0	65.0	65.0	99.3	100.1	71.0	75.1	80.9	86.8
10	BIO 716	96.7	57.0	105.0	138.7	91.4	116.7	90.0	99.4	95.0	68.3	102.7	106.4	65.0	77.4	90.0	98.7
11	IMH 1602	82.3	56.3	103.3	119.7	76.8	110.6	86.7	90.8	93.3	70.0	98.0	91.0	53.0	81.8	86.8	91.1
12	JH 15135	99.0	62.0	104.3	108.7	82.4	104.4	95.0	93.7	75.0	86.7	97.7	94.9	73.5	87.3	88.3	92.0
13	JH 13227	118.3	70.7	127.0	141.3	95.7	128.2	96.7	111.1	100.0	81.7	99.3	114.4	49.0	85.7	96.2	103.6
14	AH-1602	100.3	61.0	105.0	116.0	83.2	116.4	85.0	95.3	61.7	80.0	97.3	102.5	60.5	83.3	85.0	93.3
15	MH 25	102.3	67.3	117.7	136.7	88.1	113.1	86.7	101.7	81.0	85.0	97.0	103.7	67.5	86.1	90.5	96.3
16	NRI MH4	79.7	46.7	100.0	-	82.9	108.1	95.0	85.4	81.7	71.7	98.7	97.7	62.5	70.0	83.9	87.9
17	AH-7188	84.3	51.7	98.3	114.3	72.5	95.7	73.3	84.3	65.0	73.3	94.0	96.3	78.5	79.8	81.7	84.8
18	QMH-1478	95.3	61.0	114.3	119.3	73.3	127.0	81.7	96.0	96.7	76.7	97.3	103.3	72.5	82.2	91.2	93.6
19	IMH 1610	87.3	60.3	94.3	105.3	81.0	93.4	78.3	85.7	77.7	81.3	97.0	89.6	57.5	78.9	84.9	87.3
20	NS 8181	85.7	55.0	121.0	130.3	77.3	103.9	86.7	94.3	86.7	85.0	97.7	97.0	80.5	75.7	88.4	91.9
21	IMH 1533	77.3	42.7	93.3	118.7	65.4	96.0	60.0	79.1	91.7	68.3	94.0	82.5	65.0	67.3	80.7	83.8
22	IMH 1527	90.3	53.7	109.0	103.7	81.4	101.2	78.3	88.2	72.3	83.3	94.0	92.3	71.0	81.6	84.7	89.4
23	SVMH-55	84.7	46.7	108.7	108.3	65.1	96.6	65.0	82.1	110.0	81.7	99.0	82.6	65.0	74.3	89.5	89.0
24	JH 15106	92.3	68.0	126.3	138.0	86.9	104.3	88.3	100.6	91.7	80.0	103.0	106.3	64.0	78.0	91.8	97.1
25	BIO 274	72.3	55.0	122.7	122.0	85.1	111.1	91.7	94.3	88.3	80.0	103.0	104.5	87.5	68.5	88.9	94.5
26	QMH-1435	78.0	46.3	94.3	99.3	74.3	94.8	71.7	79.8	81.7	71.7	96.7	81.0	66.5	76.0	81.4	80.3
27	AH-1601	99.0	58.0	105.0	122.0	83.6	122.0	81.7	95.9	91.7	78.3	95.3	94.0	71.0	83.5	88.6	93.0
28	JH 13023	108.7	63.0	136.7	147.7	85.9	127.1	93.3	108.9	65.0	71.7	99.3	116.3	59.0	85.4	87.5	101.4
29	WH-1095	90.7	55.0	98.7	113.3	89.9	87.7	90.0	89.3	80.0	71.7	96.3	95.1	74.5	81.0	84.8	88.6
30	DAS-MH-113	86.0	44.0	100.0	112.3	87.0	102.6	71.7	86.2	88.3	75.0	102.7	87.9	55.0	82.5	87.3	88.5
31	MMH 1302	86.7	57.7	119.3	127.0	91.1	101.9	81.7	95.0	93.3	86.7	97.3	107.3	77.0	83.4	93.6	94.8
32	QMH-1472	90.0	48.0	105.3	123.3	76.3	104.9	75.0	89.0	101.7	71.7	96.0	104.1	77.5	76.4	90.0	92.9
33	CAH-1533	80.3	42.7	102.0	111.3	81.7	103.1	63.3	83.5	75.0	68.3	99.7	82.7	71.5	67.0	78.5	83.0
34	RMH 815	81.3	43.0	100.0	120.0	81.8	101.4	83.3	87.3	93.3	76.7	98.7	89.1	61.5	73.2	86.2	90.1

TABLE No. 2 (Contd.)

S.No.	PEDIGREE	EAR HEIGHT(cm) HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
35	JH 15080	111.0	72.7	132.3	141.3	95.6	105.4	95.0	107.6	96.7	91.7	98.3	116.3	52.5	88.9	98.4	102.7
36	IMH 1608	79.3	47.3	99.7	108.3	73.3	67.6	81.7	79.6	75.0	76.7	96.0	78.7	69.0	66.8	78.6	84.2
37	IMH 1547	87.7	60.7	100.0	134.0	68.7	105.6	83.3	91.4	81.7	85.0	96.3	89.5	71.5	83.0	87.1	90.9
38	JH 15130	109.0	74.0	125.0	139.7	101.6	118.5	98.3	109.4	105.0	75.0	98.3	111.8	70.0	96.2	97.3	103.6
39	JH 15011	86.7	60.0	128.3	138.3	90.2	108.5	93.3	100.8	98.3	68.3	99.7	114.1	71.0	86.3	93.3	96.4
40	IMH 1601	81.0	51.0	107.3	102.7	70.6	104.1	81.7	85.5	94.0	78.3	94.3	87.7	58.5	84.3	87.7	87.3
41	MH 26	87.3	55.7	112.3	121.3	85.2	107.6	90.0	94.2	86.7	76.7	95.0	101.3	66.0	83.0	88.5	90.6
42	QMH-1470	93.7	54.3	113.0	117.0	75.2	110.5	96.7	94.3	90.0	76.7	97.7	99.4	71.0	85.8	89.9	94.8
43	BIO 509	92.7	63.3	124.7	118.3	91.7	116.5	91.7	99.8	84.7	78.3	101.7	117.6	66.5	79.9	92.4	96.4
44	AH-7005	81.7	55.3	118.0	115.7	89.8	106.2	83.3	92.9	80.0	75.0	98.3	99.7	68.5	76.4	85.9	90.7
45	IMH 1607	76.7	55.3	97.3	112.0	74.7	85.8	68.3	81.5	83.3	78.3	95.3	89.0	61.0	71.3	83.5	85.9
46	DAS-MH-112	72.7	38.0	95.0	116.0	68.0	83.8	80.0	79.1	91.7	65.0	99.3	91.4	74.0	66.4	82.8	82.5
	CHECKS																
47	BIO 9682 (C)	90.7	60.3	126.7	127.0	86.3	115.5	98.3	100.7	71.7	70.0	92.0	111.9	57.5	71.4	83.4	94.6
48	CMH 08-287 (C)	100.7	73.3	125.7	144.3	97.3	89.8	91.7	103.2	90.0	76.7	97.3	118.0	80.0	92.4	94.9	100.5
49	CMH 08-282 (C)	107.0	61.7	119.3	127.0	90.9	112.3	108.3	103.8	103.3	80.0	92.7	108.8	73.5	85.7	94.1	98.5
	Loc. Mean	**89.9**	**56.2**	**110.9**	**122.3**	**82.7**	**105.3**	**84.6**	**93.0**	**85.4**	**76.9**	**97.6**	**99.5**	**68.2**	**80.1**	**87.9**	**92.2**
	C.D. (5%)	12.79	7.87	11.57	13.10	4.61	4.31	19.00	7.61	6.82	17.53	3.09	11.60	29.30	12.28	9.65	5.03
	C.V. (%)	8.78	8.64	6.44	6.54	3.44	2.52	13.86	7.78	4.92	14.06	1.95	7.20	21.37	9.45	8.80	9.22
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.82	0.00	0.00	0.00

TABLE No. 3 **PERFORMANCE OF MEDIUM MATURITY EXPERIMENTAL HYBRIDS AT BAJAURA, UDHAMPUR, KANGRA, GOSSIGAON, LUDHIANA, KARNAL, KANPUR, PANTNAGAR, DHOLI, BHUBANESHWAR, RANCHI, VARANASI, BAHRAICH, SABOUR, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, VAGARAI, COIMBATORE, RAHURI, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA, JHABUA IN TRIAL No. TR62A (NIVT MEDIUM) DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								NHZ ZN 1									NWPZ ZN 2	
		BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
1	KMH-14-73	8078	25	5983	37	10580	2	834	38	8214	6	5281	36	7154	19	9806	21	5559	35	6950	36
2	JKMH 4157	10697	2	7466	13	6164	21	2340	14	8109	8	11732	2	6120	35	11123	2	8806	17	9445	4
3	JKMH 1414	7783	27	7291	17	7604	7	1561	22	7559	14	11183	4	8281	2	9582	26	11953	1	10250	1
4	Gagan	7566	30	7486	12	5629	27	924	31	6894	27	6329	33	6314	32	10558	9	6126	34	7332	33
5	IMHBG-2016-6	8676	16	6525	36	5783	26	2157	17	6995	25	9078	14	7415	12	10782	6	9056	15	9083	10
6	BLH 112	10600	4	5964	38	6649	15	1436	24	7738	12	8153	22	5329	40	9278	31	7061	29	7455	31
7	WH-2002	5233	40	6729	33	6161	22	858	36	6041	38	4965	37	6419	30	9281	30	2439	40	5776	40
8	DH-291	7598	29	7341	16	7498	8	2717	11	7479	16	8980	16	7151	20	8386	40	10021	7	8634	18
9	OMH 14-30(CAH 1514)	8181	23	7201	19	6125	23	884	32	7169	22	8989	15	6141	34	10238	13	8196	24	8391	21
10	MM9222	8412	19	6688	34	4578	38	2852	7	6559	34	8631	19	7378	14	9209	32	8017	25	8309	23
11	WH-1003	8930	14	7390	14	4692	37	860	35	7004	24	5541	35	6755	25	9638	24	5318	37	6813	37
12	FCH-11267	10102	6	7367	15	6814	13	1230	29	8094	9	9457	13	6056	37	8667	37	9247	12	8357	22
13	DH-303	7461	31	7194	20	5418	30	1860	19	6691	32	7431	28	7427	11	9912	18	7666	26	8109	26
14	BLH 111	10660	3	7024	23	6901	12	866	33	8195	7	11262	3	6244	33	8666	38	10061	6	9059	11
15	IQ8712	10152	5	8292	3	6320	17	4723	1	8255	4	10870	5	6494	28	8742	36	10683	2	9197	9
16	OMH 14-18(CAH 1519)	9120	12	9075	1	7219	9	4038	2	8471	3	10517	8	6729	26	9311	29	8501	21	8765	16
17	KMH-14-37	5612	39	7668	11	5606	28	1286	27	6295	36	5648	34	6318	31	9783	22	4258	39	6502	38
18	IQ8627	8252	21	7158	21	7729	6	2370	13	7713	13	10714	6	7489	9	9841	20	10516	3	9640	3
19	GH-150114(CAH1414)	8878	15	6913	26	5973	24	1327	26	7255	21	10181	10	7299	16	10896	4	7526	27	8976	12
20	VaMH 14020	7396	32	6882	28	4710	36	2666	12	6329	35	8244	21	7846	4	10357	11	9154	14	8901	14
21	GH-150125(CAH1525)	8535	17	6974	25	5168	32	1236	28	6892	28	9989	12	6454	29	10786	5	10070	5	9325	6
22	UDMH-129	7909	26	6561	35	6222	20	1594	20	6898	26	7528	27	7441	10	10629	8	6423	31	8005	29
23	IQ8319	10935	1	7810	7	8394	4	2057	18	9046	1	11779	1	5691	39	10134	15	9232	13	9209	8
24	IMHBG-2016-4	8438	18	8119	4	5928	25	2789	8	7495	15	8104	23	6616	27	11562	1	8698	19	8745	17
25	UDMH-128	6143	37	6796	31	10798	1	1526	23	7912	11	4582	40	8140	3	10420	10	5426	36	7142	34
26	GOLD-1155	9069	13	7957	5	6928	11	3234	3	7985	10	10651	7	7023	23	10749	7	10272	4	9674	2
27	BLH 113	8197	22	6888	27	4715	35	1163	30	6600	33	6449	32	7409	13	10921	3	6137	33	7729	30
28	IMHBG-2016-2	9383	9	7007	24	4178	40	2332	15	6856	29	8567	20	7287	17	10294	12	9744	10	8973	13

TABLE No. 3 **PERFORMANCE OF MEDIUM MATURITY EXPERIMENTAL HYBRIDS AT BAJAURA, UDHAMPUR, KANGRA, GOSSIGAON, LUDHIANA, KARNAL, KANPUR, PANTNAGAR, DHOLI, BHUBANESHWAR, RANCHI, VARANASI, BAHRAICH, SABOUR, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, VAGARAI, COIMBATORE, RAHURI, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA, JHABUA IN TRIAL No. TR62A (NIVT MEDIUM) DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								NHZ ZN 1									NWPZ ZN 2	
		BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
29	IMHBG-2016-5	7159	33	6789	32	6304	18	1591	21	6751	31	7836	26	5729	38	10128	16	8582	20	8069	27
30	DH-302	9391	8	7801	8	4787	34	467	40	7326	19	6719	31	6943	24	9364	28	6508	30	7384	32
31	WH-2006	6003	38	6871	29	5423	29	863	34	6099	37	4825	38	6089	36	8464	39	5278	38	6164	39
32	IQ7802	9137	11	8715	2	8665	3	2238	16	8839	2	10189	9	7351	15	10169	14	9914	8	9406	5
33	IMHBG-2016-1	6471	36	6865	30	4516	39	856	37	5951	39	7983	25	7580	8	10019	17	9486	11	8767	15
34	IIMRNH 2016-1	6621	35	7695	10	7037	10	3089	4	7118	23	7235	29	7176	18	9769	23	8467	22	8162	25
35	Kranthi	8273	20	5750	39	6296	19	1407	25	6773	30	8096	24	7056	22	9620	25	7487	28	8065	28
36	GH-150141(CAH1441)	7692	28	7952	6	6357	16	2989	5	7334	18	8695	18	8282	1	9004	34	8217	23	8549	19
37	HM-9 (Filler)	6633	34	5429	40	4985	33	822	39	5682	40	4760	39	7805	6	9156	33	6413	32	7034	35
	CHECKS																				
38	DHM 121(C)	9754	7	7214	18	5364	31	2783	9	7444	17	6950	30	7136	21	9911	19	8941	16	8234	24
39	CMH 08-292(C)	8166	24	7083	22	6704	14	2866	6	7318	20	8826	17	7662	7	8855	35	8752	18	8524	20
40	BIO 9544(C)	9176	10	7727	9	7765	5	2778	10	8223	5	10047	11	7807	5	9519	27	9840	9	9303	7
	Location Mean	**8312**		**7191**		**6367**		**1912**		**7290**		**8325**		**6976**		**9838**		**8101**		**8310**	
	C.D. (5%)	674		442		991		1927		703		1300		798		730		1434		1066	
	C.V. (%)	4.99		3.78		9.57		**61.99**		**-**		9.61		7.03		4.56		10.89		**-**	
	F (Prob)	0		0		0		0.003				0		0		0		0			
	Plot Size	3.6		4.8		2.64		4.8		-		4.8		6		4.8		4.5		-	
	AGRONOMY DATA																				
	Sowing Date	15-06		25-06		24-06		17-07		-		21-06		25-06		6-08		29-06		-	
	Harvest Date	10-10		5-10		8-10		24-10		-		2-10		23-09		24-11		15-10		-	
	Irrigation Nos	3		-		-		1		-		7		5		2		-		-	
	Ferilizer Applied N	120		120		120		120		-		50		150		140		120		-	
	Ferilizer Applied P	60		60		60		60		-		24		60		60		60		-	
	Ferilizer Applied K	40		40		40		60		-		12		60		50		40		-	

LOCATIONS REJECTED DUE TO HIGH C.V. : GOSS 62.0 %: DHOL 20.4 %: JHAB 36.9 %

TABLE No. 3 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												NEPZ ZN 3														PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R
1	KMH-14-73	2171	28	4368	34	2759	39	3498	37	4553	34	3591	37	3754	39	5086	37	3499	38	7485	35	6597	37	4288	39	7310	33	5729	31	5713	36
2	JKMH 4157	1732	37	6202	7	7626	8	9048	2	7818	2	10964	3	8332	1	10038	4	5898	14	14900	1	11248	5	7306	17	9090	25	8378	3	9551	3
3	JKMH 1414	2989	14	5325	21	6338	17	4125	34	5990	13	9886	5	6333	18	10477	1	5266	20	13248	3	12700	1	5246	36	11156	7	8712	2	9543	4
4	Gagan	2043	32	6536	3	4595	32	3954	35	7145	3	5482	31	5543	29	6445	31	5252	22	7945	33	8177	32	8096	6	5092	39	7623	7	6947	34
5	IMHBG-2016-6	3471	8	6445	4	6781	10	7605	7	8112	1	9084	11	7605	3	7801	24	7002	4	9991	24	10852	9	7046	20	9887	15	5687	33	8324	19
6	BLH 112	2512	20	5126	26	4940	31	6269	19	5295	20	7701	21	5866	23	8205	17	5111	23	9582	27	8352	29	6724	23	9333	21	6785	15	7727	25
7	WH-2002	1673	39	3857	40	2233	40	2713	39	3726	40	3231	39	3152	40	1954	40	4154	36	6506	37	4728	40	5291	35	5912	38	4414	40	4708	40
8	DH-291	2125	30	5306	22	5466	23	6594	15	4814	30	6846	28	5805	25	5590	34	4856	25	8908	30	8774	26	6480	26	10611	10	6221	23	7348	30
9	OMH 14-30(CAH 1514)	2631	17	5347	20	5322	26	6392	18	7064	4	7101	25	6245	19	7204	26	5709	15	10734	17	9113	25	7773	11	10575	11	5689	32	8114	21
10	MM9222	1996	33	6365	5	8518	1	5900	22	6321	11	7904	20	7002	8	9512	7	4330	32	11057	16	9699	21	6220	29	11839	6	6488	20	8449	16
11	WH-1003	2214	26	5293	23	2802	38	4551	32	5863	15	4464	34	4595	33	6796	28	4304	33	7001	36	7177	34	6525	25	9730	16	7726	6	7037	33
12	FCH-11267	4015	6	4914	27	7643	7	5551	27	6708	7	7934	19	6550	15	8322	16	8112	2	13051	4	10278	15	7677	14	9317	22	6530	19	9041	9
13	DH-303	2119	31	5406	17	5888	20	6626	14	5180	21	7544	23	6129	21	8159	19	5516	17	12699	6	10541	13	8503	5	9284	23	6163	24	8695	12
14	BLH 111	2560	19	4705	29	5459	24	7817	5	6048	12	9976	4	6801	11	10090	3	6081	13	11809	11	12001	3	6439	27	14138	1	6991	13	9650	2
15	IQ8712	1737	36	5960	8	8505	2	5888	23	5583	16	9353	8	7058	6	9658	5	4852	26	11131	15	10637	12	8066	7	7170	34	8137	5	8522	14
16	OMH 14-18(CAH 1519)	4279	5	4887	28	6022	19	7883	3	5946	14	9241	9	6796	12	10208	2	6801	5	11698	12	12253	2	8606	3	9546	19	7067	12	9454	5
17	KMH-14-37	1683	38	4326	35	3381	36	3041	38	5106	23	3436	38	3858	38	5163	36	3356	39	4954	39	6656	36	5154	37	5077	40	5686	34	5149	38
18	IQ8627	2325	22	6558	2	6600	11	9963	1	5465	18	11480	1	8013	2	9517	6	6592	8	13591	2	10765	11	7809	10	13302	3	7101	11	9811	1
19	GH-150114(CAH1414)	1920	35	5366	19	5793	22	6047	20	4721	31	8841	14	6153	20	6948	27	6467	9	10446	19	11046	7	7344	15	10069	13	5990	27	8330	18
20	VaMH 14020	2997	13	6215	6	6449	14	7282	9	4912	26	8165	17	6605	14	8858	11	5422	19	9515	28	11011	8	5769	33	9570	18	6133	25	8040	23
21	GH-150125(CAH1525)	5630	2	5393	18	7231	9	7056	10	5548	17	8172	16	6680	13	8885	10	5537	16	9834	25	10239	16	7959	8	10748	9	5946	28	8450	15
22	UDMH-129	2760	15	5201	25	5387	25	5758	25	4351	36	6701	29	5480	30	6058	33	3676	37	9434	29	8179	31	7242	18	9538	20	6129	26	7179	32
23	IQ8319	4455	4	5656	13	6299	18	7847	4	6624	8	11331	2	7551	4	8810	13	4185	35	11955	10	9479	23	8705	2	13343	2	8145	4	9232	7
24	IMHBG-2016-4	5101	3	5614	14	8217	3	5535	28	6783	5	8859	13	7002	7	8032	21	6601	7	10225	22	8235	30	7845	9	8813	27	6642	17	8056	22
25	UDMH-128	1662	40	4108	37	3778	35	5824	24	3827	37	5337	32	4575	34	4892	38	4769	27	3938	40	5821	38	6330	28	6549	36	5304	37	5372	37
26	GOLD-1155	2195	27	4612	31	5816	21	6423	16	4590	33	9046	12	6097	22	8846	12	4597	30	12654	7	10064	18	7327	16	9257	24	7209	9	8565	13
27	BLH 113	2595	18	3869	39	5314	27	4756	30	3773	39	8203	15	5183	32	7443	25	4464	31	9709	26	9784	20	6566	24	6538	37	9524	1	7718	26
28	IMHBG-2016-2	3465	9	6650	1	7668	6	5903	21	6573	9	8113	18	6981	9	8194	18	6687	6	8811	32	9562	22	5854	32	8149	31	6312	22	7653	28

TABLE No. 3 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												NEPZ ZN 3														PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R
29	IMHBG-2016-5	2308	23	5241	24	6540	12	5646	26	4889	28	6978	27	5859	24	6734	29	8414	1	11267	13	10085	17	7724	12	10127	12	6929	14	8754	11
30	DH-302	3150	11	4069	38	4475	33	4415	33	4862	29	4338	36	4432	35	8723	15	4740	29	10609	18	8374	28	5330	34	8521	28	5760	30	7437	29
31	WH-2006	1945	34	4218	36	2857	37	3734	36	4378	35	4373	35	3912	37	3076	39	3145	40	5895	38	5122	39	4616	38	8375	29	5221	38	5064	39
32	IQ7802	2225	25	5944	10	5213	28	7531	8	3786	38	9560	6	6407	17	9104	8	6144	12	12759	5	11563	4	7022	21	10868	8	7388	8	9264	6
33	IMHBG-2016-1	2158	29	4372	33	5191	29	6958	11	5139	22	7028	26	5738	26	6395	32	6409	11	11984	9	8386	27	5976	31	8899	26	5774	29	7689	27
34	IIMRNH 2016-1	3294	10	5440	16	6457	13	5234	29	5029	25	6270	30	5686	27	8106	20	5064	24	8826	31	8070	33	6838	22	8355	30	5530	36	7256	31
35	Kranthi	2260	24	4492	32	5175	30	4713	31	5307	19	7115	24	5360	31	7875	23	5507	18	10375	20	9153	24	7052	19	9995	14	5583	35	7934	24
36	GH-150141(CAH1441)	2699	16	4628	30	6368	16	6957	12	5075	24	5233	33	5652	28	9029	9	6441	10	12123	8	9923	19	6043	30	6858	35	6530	18	8135	20
37	HM-9 (Filler)	3581	7	5957	9	4090	34	2626	40	4891	27	3169	40	4147	36	5252	35	4760	28	7585	34	7010	35	4193	40	7510	32	5066	39	5911	35
	CHECKS																														
38	DHM 121(C)	2341	21	5721	12	7761	5	6789	13	4647	32	7621	22	6508	16	6514	30	5263	21	11255	14	10425	14	8506	4	9584	17	7127	10	8382	17
39	CMH 08-292(C)	6401	1	5459	15	6413	15	6413	17	6749	6	9222	10	6851	10	8774	14	7389	3	10058	23	11052	6	7679	13	11895	5	6479	21	9047	8
40	BIO 9544(C)	3043	12	5899	11	7843	4	7689	6	6432	10	9532	7	7479	5	7907	22	4293	34	10360	21	10838	10	10014	1	12066	4	6776	16	8893	10
	Location Mean	**2812**		**5276**		**5780**		**5964**		**5491**		**7461**		**5994**		**7617**		**5417**		**10148**		**9349**		**6880**		**9350**		**6566**		**7904**	
	C.D. (5%)	934		441		2326		1219		815		1549		1270		1808		1055		2750		1316		839		873		1741		1483	
	C.V. (%)	**20.44**		5.15		19.88		12.57		9.13		12.77		**-**		14.6		11.98		16.67		8.66		7.5		5.75		16.31		**-**	
	F (Prob)	0		0		0		0		0		0				0		0		0		0		0		0		0			
	Plot Size	6		4.8		5.6		4.8		4.8		4.8		-		6		6		4.8		4.8		4.8		4.8		6		-	
	AGRONOMY DATA																														
	Sowing Date	25-06		20-06		1-07		23-06		22-06		30-06		-		22-06		1-07		28-06		3-08		27-07		6-07		13-07		-	
	Harvest Date	18-10		17-10		18-10		28-09		4-10		21-10		-		20-10		25-10		29-10		7-12		15-11		20-10		13-11		-	
	Irrigation Nos	2		-		-		-		-		3		-		4		5		2		8		11		10		2		-	
	Ferilizer Applied N	120		120		120		120		120		130		-		200		200		150		150		250		250		120		-	
	Ferilizer Applied P	60		60		60		60		60		40		-		60		60		65		75		75		75		60		-	
	Ferilizer Applied K	40		60		40		40		60		30		-		50		50		65		40		75		75		40		-	

TABLE No. 3 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												CWZ ZN 5		OV'L	
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	MEAN	R	MEAN	R
1	KMH-14-73	5003	34	5829	5	6061	36	4144	39	2904	37	1442	35	4788	37	5631	36
2	JKMH 4157	5100	31	3149	40	10341	11	10296	4	7068	4	3408	7	7191	11	8608	2
3	JKMH 1414	7131	8	5181	17	10965	7	10677	1	4729	25	2721	20	7737	5	8368	4
4	Gagan	4523	38	4161	36	6842	33	4799	37	2887	38	1945	30	4642	38	6232	34
5	IMHBG-2016-6	7216	6	4858	25	11074	5	10519	2	6418	6	3990	1	8017	2	8071	9
6	BLH 112	5323	30	5104	19	9363	22	8742	13	4644	26	3947	2	6635	25	7068	27
7	WH-2002	3810	39	4987	22	3926	40	3132	40	1026	40	988	40	3376	40	4451	40
8	DH-291	6387	18	6428	2	10034	14	7416	26	4463	29	1652	32	6946	18	7174	25
9	OMH 14-30(CAH 1514)	6121	20	5270	14	9546	20	7615	23	5135	17	2016	29	6738	21	7366	21
10	MM9222	6014	21	5105	18	11467	2	8240	18	4812	24	3555	4	7128	13	7613	16
11	WH-1003	4618	36	6419	3	7762	31	7169	29	5519	16	2545	23	6297	29	6333	33
12	FCH-11267	5639	25	6044	4	11290	4	9059	8	4291	31	2946	17	7265	10	7920	12
13	DH-303	7136	7	4137	37	8925	26	7593	24	4477	28	2183	26	6454	27	7345	22
14	BLH 111	7539	3	4263	35	9152	23	8980	9	5041	20	1916	31	6995	16	8223	7
15	IQ8712	5077	33	4359	33	8581	29	8827	11	6479	5	3580	3	6665	24	7909	13
16	OMH 14-18(CAH 1519)	6580	17	5227	16	10317	13	8553	15	5733	15	3237	9	7282	9	8210	8
17	KMH-14-37	6737	15	4095	38	6124	35	5238	35	3013	36	1536	34	5041	35	5226	38
18	IQ8627	6682	16	4953	23	9881	16	9179	7	7814	1	2991	16	7702	6	8706	1
19	GH-150114(CAH1414)	4555	37	5619	9	9679	18	8691	14	5034	21	2089	27	6716	22	7513	18
20	VaMH 14020	7436	4	4645	29	8926	25	7159	30	6033	11	2282	24	6840	20	7420	19
21	GH-150125(CAH1525)	5416	27	4660	28	11064	6	8349	17	5871	12	2944	18	7072	14	7745	15
22	UDMH-129	5678	24	5021	20	8917	27	6129	33	4904	22	3133	11	6130	30	6709	31
23	IQ8319	5853	23	5267	15	10934	8	10035	5	7508	3	2922	19	7919	3	8581	3
24	IMHBG-2016-4	7552	2	5515	10	10379	10	10322	3	7647	2	3535	5	8283	1	7928	11
25	UDMH-128	6993	11	5384	12	4838	38	5475	34	4066	33	1401	36	5351	34	5814	35
26	GOLD-1155	7065	10	4587	30	8624	28	8763	12	6149	9	2226	25	7037	15	7845	14
27	BLH 113	5594	26	4937	24	9610	19	7473	25	5797	13	1640	33	6682	23	6836	30
28	IMHBG-2016-2	5369	29	5755	7	11401	3	8159	19	5113	19	3529	6	7159	12	7530	17

TABLE No. 3 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												CWZ ZN 5 MEAN	R	OV'L MEAN	R
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R				
29	IMHBG-2016-5	5099	32	6967	1	4761	39	8137	20	4176	32	1205	38	5828	33	7177	24
30	DH-302	6234	19	4418	31	9143	24	7128	31	3626	34	3278	8	6110	31	6512	32
31	WH-2006	3321	40	3634	39	5514	37	4807	36	1578	39	996	39	3771	39	4867	39
32	IQ7802	7240	5	5687	8	11802	1	8923	10	5797	14	3061	13	7890	4	8353	5
33	IMHBG-2016-1	4882	35	5756	6	9734	17	7864	22	4853	23	3137	10	6618	26	7022	28
34	IIMRNH 2016-1	6751	14	4330	34	9900	15	7292	28	6184	8	2655	22	6892	19	6987	29
35	Kranthi	7692	1	5433	11	9416	21	7067	32	5124	18	2054	28	6947	17	7069	26
36	GH-150141(CAH1441)	6963	12	4846	26	8337	30	7392	27	4607	27	3028	15	6429	28	7231	23
37	HM-9 (Filler)	5968	22	4362	32	6634	34	4265	38	3199	35	1362	37	4886	36	5488	37
	CHECKS																
38	DHM 121(C)	5390	28	5273	13	7518	32	8030	21	4330	30	2669	21	6108	32	7376	20
39	CMH 08-292(C)	6950	13	4789	27	10783	9	8395	16	6264	7	3060	14	7436	8	7950	10
40	BIO 9544(C)	7084	9	4996	21	10335	12	9537	6	6059	10	3076	12	7602	7	8314	6
	Location Mean	**6043**		**5036**		**8997**		**7739**		**5009**		**2547**		**6565**		**7218**	
	C.D. (5%)	362		1407		944		1304		445		1529		892		1149	
	C.V. (%)	3.68		17.18		6.45		10.37		4.39		**36.93**		**-**		-	
	F (Prob)	0		0.001		0		0		0		0					
	Plot Size	4.8		4.8		6		6		4.8		6		-		-	
	AGRONOMY DATA																
	Sowing Date	1-07		27-06		17-07		7-07		8-07		22-06		-		-	
	Harvest Date	19-10		19-10		25-11		-		15-10		10-10		-		-	
	Irrigation Nos	1		-		-		-		-		-		-		-	
	Ferilizer Applied N	120		150		120		120		120		120		-		-	
	Ferilizer Applied P	90		80		60		60		60		60		-		-	
	Ferilizer Applied K	-		-		40		40		-		60		-		-	

TABLE No. 3 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DHM 121(C) NHZ(ZN 1) BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	NWPZ ZN 2 MEAN	R
1	KMH-14-73	-		-		97.3		-		10.3		-		0.3		-		-		-	
2	JKMH 4157	9.7		3.5		14.9		-		8.9		68.8		-		12.2		-		14.7	
3	JKMH 1414	-		1.1		41.8		-		1.5		60.9		16		-		33.7		24.5	
4	Gagan	-		3.8		4.9		-		-		-		-		6.5		-		-	
5	IMHBG-2016-6	-		-		7.8		-		-		30.6		3.9		8.8		1.3		10.3	
6	BLH 112	8.7		-		24		-		4		17.3		-		-		-		-	
7	WH-2002	-		-		14.9		-		-		-		-		-		-		-	
8	DH-291	-		1.8		39.8		-		0.5		29.2		0.2		-		12.1		4.9	
9	OMH 14-30(CAH 1514)	-		-		14.2		-		-		29.4		-		3.3		-		1.9	
10	MM9222	-		-		-		2.5		-		24.2		3.4		-		-		0.9	
11	WH-1003	-		2.4		-		-		-		-		-		-		-		-	
12	FCH-11267	3.6		2.1		27		-		8.7		36.1		-		-		3.4		1.5	
13	DH-303	-		-		1		-		-		6.9		4.1		0		-		-	
14	BLH 111	9.3		-		28.7		-		10.1		62.1		-		-		12.5		10	
15	IQ8712	4.1		14.9		17.8		69.7		10.9		56.4		-		-		19.5		11.7	
16	OMH 14-18(CAH 1519)	-		25.8		34.6		45.1		13.8		51.3		-		-		-		6.4	
17	KMH-14-37	-		6.3		4.5		-		-		-		-		-		-		-	
18	IQ8627	-		-		44.1		-		3.6		54.2		5		-		17.6		17.1	
19	GH-150114(CAH1414)	-		-		11.4		-		-		46.5		2.3		9.9		-		9	
20	VaMH 14020	-		-		-		-		-		18.6		10		4.5		2.4		8.1	
21	GH-150125(CAH1525)	-		-		-		-		-		43.7		-		8.8		12.6		13.2	
22	UDMH-129	-		-		16		-		-		8.3		4.3		7.2		-		-	
23	IQ8319	12.1		8.3		56.5		-		21.5		69.5		-		2.3		3.3		11.8	
24	IMHBG-2016-4	-		12.5		10.5		0.2		0.7		16.6		-		16.7		-		6.2	
25	UDMH-128	-		-		101.3		-		6.3		-		14.1		5.1		-		-	
26	GOLD-1155	-		10.3		29.2		16.2		7.3		53.3		-		8.5		14.9		17.5	
27	BLH 113	-		-		-		-		-		-		3.8		10.2		-		-	
28	IMHBG-2016-2	-		-		-		-		-		23.3		2.1		3.9		9		9	

TABLE No. 3 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DHM 121(C) NHZ(ZN 1) BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	NWPZ ZN 2 MEAN	R
29	IMHBG-2016-5	-		-		17.5		-		-		12.8		-		2.2		-		-	
30	DH-302	-		8.1		-		-		-		-		-		-		-		-	
31	WH-2006	-		-		1.1		-		-		-		-		-		-		-	
32	IQ7802	-		20.8		61.6		-		18.7		46.6		3		2.6		10.9		14.2	
33	IMHBG-2016-1	-		-		-		-		-		14.9		6.2		1.1		6.1		6.5	
34	IIMRNH 2016-1	-		6.7		31.2		11		-		4.1		0.6		-		-		-	
35	Kranthi	-		-		17.4		-		-		16.5		-		-		-		-	
36	GH-150141(CAH1441)	-		10.2		18.5		7.4		-		25.1		16.1		-		-		3.8	
37	HM-9 (Filler)	-		-		-		-		-		-		9.4		-		-		-	
	CHECKS																				
38	DHM 121(C)	-		-		-		-		-		-		-		-		-		-	
39	CMH 08-292(C)	-		-		25		3		-		27		7.4		-		-		3.5	
40	BIO 9544(C)	-		7.1		44.8		-		10.5		44.6		9.4		-		10.1		13	

TABLE No. 3 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DHM 121(C)												NEPZ ZN 3												PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R
1	KMH-14-73	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
2	JKMH 4157	-		8.4		-		33.3		68.2		43.9		28		54.1		12.1		32.4		7.9		-		-		17.6		13.9	
3	JKMH 1414	27.7		-		-		-		28.9		29.7		-		60.8		0.1		17.7		21.8		-		16.4		22.2		13.9	
4	Gagan	-		14.2		-		-		53.8		-		-		-		-		-		-		-		-		7		-	
5	IMHBG-2016-6	48.3		12.6		-		12		74.6		19.2		16.9		19.8		33		-		4.1		-		3.2		-		-	
6	BLH 112	7.3		-		-		-		14		1		-		26		-		-		-		-		-		-		-	
7	WH-2002	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
8	DH-291	-		-		-		-		3.6		-		-		-		-		-		-		-		10.7		-		-	
9	OMH 14-30(CAH 1514)	12.4		-		-		-		52		-		-		10.6		8.5		-		-		-		10.3		-		-	
10	MM9222	-		11.2		9.8		-		36		3.7		7.6		46		-		-		-		-		23.5		-		0.8	
11	WH-1003	-		-		-		-		26.2		-		-		4.3		-		-		-		-		1.5		8.4		-	
12	FCH-11267	71.5		-		-		-		44.4		4.1		0.7		27.7		54.1		16		-		-		-		-		7.9	
13	DH-303	-		-		-		-		11.5		-		-		25.3		4.8		12.8		1.1		-		-		-		3.7	
14	BLH 111	9.4		-		-		15.1		30.1		30.9		4.5		54.9		15.5		4.9		15.1		-		47.5		-		15.1	
15	IQ8712	-		4.2		9.6		-		20.1		22.7		8.5		48.3		-		-		2		-		-		14.2		1.7	
16	OMH 14-18(CAH 1519)	82.8		-		-		16.1		28		21.3		4.4		56.7		29.2		3.9		17.5		1.2		-		-		12.8	
17	KMH-14-37	-		-		-		-		9.9		-		-		-		-		-		-		-		-		-		-	
18	IQ8627	-		14.6		-		46.7		17.6		50.6		23.1		46.1		25.2		20.8		3.3		-		38.8		-		17	
19	GH-150114(CAH1414)	-		-		-		-		1.6		16		-		6.7		22.9		-		6		-		5.1		-		-	
20	VaMH 14020	28		8.6		-		7.3		5.7		7.1		1.5		36		3		-		5.6		-		-		-		-	
21	GH-150125(CAH1525)	140.5		-		-		3.9		19.4		7.2		2.6		36.4		5.2		-		-		-		12.1		-		0.8	
22	UDMH-129	17.9		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
23	IQ8319	90.3		-		-		15.6		42.6		48.7		16		35.2		-		6.2		-		2.3		39.2		14.3		10.1	
24	IMHBG-2016-4	117.9		-		5.9		-		46		16.3		7.6		23.3		25.4		-		-		-		-		-		-	
25	UDMH-128	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
26	GOLD-1155	-		-		-		-		-		18.7		-		35.8		-		12.4		-		-		-		1.1		2.2	
27	BLH 113	10.9		-		-		-		-		7.6		-		14.3		-		-		-		-		-		33.6		-	
28	IMHBG-2016-2	48		16.2		-		-		41.4		6.5		7.3		25.8		27.1		-		-		-		-		-		-	

TABLE No. 3 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DHM 121(C)										NEPZ ZN 3												PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R
29	IMHBG-2016-5	-		-		-		-		5.2		-		-		3.4		59.9		0.1		-		-		5.7		-		4.4	
30	DH-302	34.6		-		-		-		4.6		-		-		33.9		-		-		-		-		-		-		-	
31	WH-2006	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
32	IQ7802	-		3.9		-		10.9		-		25.4		-		39.8		16.7		13.4		10.9		-		13.4		3.7		10.5	
33	IMHBG-2016-1	-		-		-		2.5		10.6		-		-		-		21.8		6.5		-		-		-		-		-	
34	IIMRNH 2016-1	40.7		-		-		-		8.2		-		-		24.4		-		-		-		-		-		-		-	
35	Kranthi	-		-		-		-		14.2		-		-		20.9		4.6		-		-		-		4.3		-		-	
36	GH-150141(CAH1441)	15.3		-		-		2.5		9.2		-		-		38.6		22.4		7.7		-		-		-		-		-	
37	HM-9 (Filler)	53		4.1		-		-		5.2		-		-		-		-		-		-		-		-		-		-	
	CHECKS																														
38	DHM 121(C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
39	CMH 08-292(C)	173.5		-		-		-		45.2		21		5.3		34.7		40.4		-		6		-		24.1		-		7.9	
40	BIO 9544(C)	30		3.1		1.1		13.3		38.4		25.1		14.9		21.4		-		-		4		17.7		25.9		-		6.1	

TABLE No. 3 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DHM 121(C) UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	KMH-14-73	-		10.6		-		-		-		-		-		-	
2	JKMH 4157	-		-		37.6		28.2		63.2		27.7		17.7		16.7	
3	JKMH 1414	32.3		-		45.9		33		9.2		2		26.7		13.4	
4	Gagan	-		-		-		-		-		-		-		-	
5	IMHBG-2016-6	33.9		-		47.3		31		48.2		49.5		31.3		9.4	
6	BLH 112	-		-		24.6		8.9		7.3		47.9		8.6		-	
7	WH-2002	-		-		-		-		-		-		-		-	
8	DH-291	18.5		21.9		33.5		-		3.1		-		13.7		-	
9	OMH 14-30(CAH 1514)	13.6		-		27		-		18.6		-		10.3		-	
10	MM9222	11.6		-		52.5		2.6		11.1		33.2		16.7		3.2	
11	WH-1003	-		21.7		3.2		-		27.5		-		3.1		-	
12	FCH-11267	4.6		14.6		50.2		12.8		-		10.4		18.9		7.4	
13	DH-303	32.4		-		18.7		-		3.4		-		5.7		-	
14	BLH 111	39.9		-		21.7		11.8		16.4		-		14.5		11.5	
15	IQ8712	-		-		14.1		9.9		49.6		34.1		9.1		7.2	
16	OMH 14-18(CAH 1519)	22.1		-		37.2		6.5		32.4		21.3		19.2		11.3	
17	KMH-14-37	25		-		-		-		-		-		-		-	
18	IQ8627	24		-		31.4		14.3		80.5		12.1		26.1		18	
19	GH-150114(CAH1414)	-		6.6		28.7		8.2		16.3		-		9.9		1.9	
20	VaMH 14020	37.9		-		18.7		-		39.3		-		12		0.6	
21	GH-150125(CAH1525)	0.5		-		47.2		4		35.6		10.3		15.8		5	
22	UDMH-129	5.3		-		18.6		-		13.3		17.4		0.4		-	
23	IQ8319	8.6		-		45.4		25		73.4		9.5		29.7		16.3	
24	IMHBG-2016-4	40.1		4.6		38.1		28.5		76.6		32.5		35.6		7.5	
25	UDMH-128	29.7		2.1		-		-		-		-		-		-	
26	GOLD-1155	31.1		-		14.7		9.1		42		-		15.2		6.4	
27	BLH 113	3.8		-		27.8		-		33.9		-		9.4		-	
28	IMHBG-2016-2	-		9.1		51.7		1.6		18.1		32.2		17.2		2.1	

TABLE No. 3 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DHM 121(C)												CWZ ZN 5 MEAN	R	OV'L MEAN	R
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R				
29	IMHBG-2016-5	-		32.1		-		1.3		-		-		-		-	
30	DH-302	15.6		-		21.6		-		-		22.8		0		-	
31	WH-2006	-		-		-		-		-		-		-		-	
32	IQ7802	34.3		7.9		57		11.1		33.9		14.7		29.2		13.2	
33	IMHBG-2016-1	-		9.2		29.5		-		12.1		17.5		8.3		-	
34	IIMRNH 2016-1	25.2		-		31.7		-		42.8		-		12.8		-	
35	Kranthi	42.7		3		25.2		-		18.3		-		13.7		-	
36	GH-150141(CAH1441)	29.2		-		10.9		-		6.4		13.5		5.3		-	
37	HM-9 (Filler)	10.7		-		-		-		-		-		-		-	
	CHECKS																
38	DHM 121(C)	-		-		-		-		-		-		-		-	
39	CMH 08-292(C)	28.9		-		43.4		4.5		44.7		14.7		21.7		7.8	
40	BIO 9544(C)	31.4		-		37.5		18.8		39.9		15.3		24.5		12.7	

TABLE No. 3 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-292(C) NHZ(ZN 1) BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	NWPZ ZN 2 MEAN	R
1	KMH-14-73	-		-		57.8		-		12.2		-		-		10.7		-		-	
2	JKMH 4157	31		5.4		-		-		10.8		32.9		-		25.6		0.6		10.8	
3	JKMH 1414	-		2.9		13.4		-		3.3		26.7		8.1		8.2		36.6		20.3	
4	Gagan	-		5.7		-		-		-		-		-		19.2		-		-	
5	IMHBG-2016-6	6.2		-		-		-		-		2.9		-		21.8		3.5		6.6	
6	BLH 112	29.8		-		-		-		5.7		-		-		4.8		-		-	
7	WH-2002	-		-		-		-		-		-		-		4.8		-		-	
8	DH-291	-		3.7		11.9		-		2.2		1.7		-		-		14.5		1.3	
9	OMH 14-30(CAH 1514)	0.2		1.7		-		-		-		1.9		-		15.6		-		-	
10	MM9222	3		-		-		-		-		-		-		4		-		-	
11	WH-1003	9.4		4.3		-		-		-		-		-		8.8		-		-	
12	FCH-11267	23.7		4		1.6		-		10.6		7.2		-		-		5.7		-	
13	DH-303	-		1.6		-		-		-		-		-		11.9		-		-	
14	BLH 111	30.5		-		2.9		-		12		27.6		-		-		15		6.3	
15	IQ8712	24.3		17.1		-		64.8		12.8		23.2		-		-		22.1		7.9	
16	OMH 14-18(CAH 1519)	11.7		28.1		7.7		40.9		15.8		19.2		-		5.2		-		2.8	
17	KMH-14-37	-		8.3		-		-		-		-		-		10.5		-		-	
18	IQ8627	1.1		1.1		15.3		-		5.4		21.4		-		11.1		20.2		13.1	
19	GH-150114(CAH1414)	8.7		-		-		-		-		15.4		-		23		-		5.3	
20	VaMH 14020	-		-		-		-		-		-		2.4		17		4.6		4.4	
21	GH-150125(CAH1525)	4.5		-		-		-		-		13.2		-		21.8		15.1		9.4	
22	UDMH-129	-		-		-		-		-		-		-		20		-		-	
23	IQ8319	33.9		10.3		25.2		-		23.6		33.5		-		14.4		5.5		8	
24	IMHBG-2016-4	3.3		14.6		-		-		2.4		-		-		30.6		-		2.6	
25	UDMH-128	-		-		61.1		-		8.1		-		6.2		17.7		-		-	
26	GOLD-1155	11.1		12.4		3.3		12.9		9.1		20.7		-		21.4		17.4		13.5	
27	BLH 113	0.4		-		-		-		-		-		-		23.3		-		-	
28	IMHBG-2016-2	14.9		-		-		-		-		-		-		16.3		11.3		5.3	

TABLE No. 3 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-292(C) NHZ(ZN 1) BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	NWPZ ZN 2 MEAN	R
29	IMHBG-2016-5	-		-		-		-		-		-		-		14.4		-		-	
30	DH-302	15		10.1		-		-		0.1		-		-		5.8		-		-	
31	WH-2006	-		-		-		-		-		-		-		-		-		-	
32	IQ7802	11.9		23		29.3		-		20.8		15.5		-		14.8		13.3		10.3	
33	IMHBG-2016-1	-		-		-		-		-		-		-		13.1		8.4		2.9	
34	IIMRNH 2016-1	-		8.6		5		7.8		-		-		-		10.3		-		-	
35	Kranthi	1.3		-		-		-		-		-		-		8.6		-		-	
36	GH-150141(CAH1441)	-		12.3		-		4.3		0.2		-		8.1		1.7		-		0.3	
37	HM-9 (Filler)	-		-		-		-		-		-		1.9		3.4		-		-	
	CHECKS																				
38	DHM 121(C)	19.4		1.9		-		-		1.7		-		-		11.9		2.2		-	
39	CMH 08-292(C)	-		-		-		-		-		-		-		-		-		-	
40	BIO 9544(C)	12.4		9.1		15.8		-		12.4		13.8		1.9		7.5		12.4		9.1	

TABLE No. 3 (Contd.)

Sl		GRAIN YIELD % SUPERIORITY OVER THE CMH 08-292(C)												NEPZ																PZ	
														ZN 3																ZN 4	
No	PEDIGREE	DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R
1	KMH-14-73	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
2	JKMH 4157	-		13.6		18.9		41.1		15.8		18.9		21.6		14.4		-		48.1		1.8		-		-		29.3		5.6	
3	JKMH 1414	-		-		-		-		-		7.2		-		19.4		-		31.7		14.9		-		-		34.5		5.5	
4	Gagan	-		19.7		-		-		5.9		-		-		-		-		-		-		5.4		-		17.7		-	
5	IMHBG-2016-6	-		18.1		5.7		18.6		20.2		-		11		-		-		-		-		-		-		-		-	
6	BLH 112	-		-		-		-		-		-		-		-		-		-		-		-		-		4.7		-	
7	WH-2002	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
8	DH-291	-		-		-		2.8		-		-		-		-		-		-		-		-		-		-		-	
9	OMH 14-30(CAH 1514)	-		-		-		-		4.7		-		-		-		-		6.7		-		1.2		-		-		-	
10	MM9222	-		16.6		32.8		-		-		-		2.2		8.4		-		9.9		-		-		-		0.1		-	
11	WH-1003	-		-		-		-		-		-		-		-		-		-		-		-		-		19.2		-	
12	FCH-11267	-		-		19.2		-		-		-		-		-		9.8		29.8		-		-		-		0.8		-	
13	DH-303	-		-		-		3.3		-		-		-		-		-		26.3		-		10.7		-		-		-	
14	BLH 111	-		-		-		21.9		-		8.2		-		15		-		17.4		8.6		-		18.8		7.9		6.7	
15	IQ8712	-		9.2		32.6		-		-		1.4		3		10.1		-		10.7		-		5		-		25.6		-	
16	OMH 14-18(CAH 1519)	-		-		-		22.9		-		0.2		-		16.3		-		16.3		10.9		12.1		-		9.1		4.5	
17	KMH-14-37	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
18	IQ8627	-		20.1		2.9		55.3		-		24.5		17		8.5		-		35.1		-		1.7		11.8		9.6		8.4	
19	GH-150114(CAH1414)	-		-		-		-		-		-		-		-		-		3.9		-		-		-		-		-	
20	VaMH 14020	-		13.9		0.6		13.6		-		-		-		1		-		-		-		-		-		-		-	
21	GH-150125(CAH1525)	-		-		12.8		10		-		-		-		1.3		-		-		-		3.6		-		-		-	
22	UDMH-129	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
23	IQ8319	-		3.6		-		22.4		-		22.9		10.2		0.4		-		18.9		-		13.4		12.2		25.7		2	
24	IMHBG-2016-4	-		2.8		28.1		-		0.5		-		2.2		-		-		1.7		-		2.2		-		2.5		-	
25	UDMH-128	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
26	GOLD-1155	-		-		-		0.2		-		-		-		0.8		-		25.8		-		-		-		11.3		-	
27	BLH 113	-		-		-		-		-		-		-		-		-		-		-		-		-		47		-	
28	IMHBG-2016-2	-		21.8		19.6		-		-		-		1.9		-		-		-		-		-		-		-		-	

TABLE No. 3 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-292(C)												NEPZ																PZ	
														ZN 3																ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R
29	IMHBG-2016-5	-		-		2		-		-		-		-		-		13.9		12		-		0.6		-		6.9		-	
30	DH-302	-		-		-		-		-		-		-		-		-		5.5		-		-		-		-		-	
31	WH-2006	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
32	IQ7802	-		8.9		-		17.4		-		3.7		-		3.8		-		26.9		4.6		-		-		14		2.4	
33	IMHBG-2016-1	-		-		-		8.5		-		-		-		-		-		19.2		-		-		-		-		-	
34	IIMRNH 2016-1	-		-		0.7		-		-		-		-		-		-		-		-		-		-		-		-	
35	Kranthi	-		-		-		-		-		-		-		-		-		3.2		-		-		-		-		-	
36	GH-150141(CAH1441)	-		-		-		8.5		-		-		-		2.9		-		20.5		-		-		-		0.8		-	
37	HM-9 (Filler)	-		9.1		-		-		-		-		-		-		-		-		-		-		-		-		-	
	CHECKS																														
38	DHM 121(C)	-		4.8		21		5.9		-		-		-		-		-		11.9		-		10.8		-		10		-	
39	CMH 08-292(C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
40	BIO 9544(C)	-		8.1		22.3		19.9		-		3.4		9.2		-		-		3		-		30.4		1.4		4.6		-	

TABLE No. 3 (Contd.)

Sl No	PEDIGREE	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	KMH-14-73	-		21.7		-		-		-		-		-		-	
2	JKMH 4157	-		-		-		22.7		12.8		11.4		-		8.3	
3	JKMH 1414	2.6		8.2		1.7		27.2		-		-		4		5.3	
4	Gagan	-		-		-		-		-		-		-		-	
5	IMHBG-2016-6	3.8		1.4		2.7		25.3		2.5		30.4		7.8		1.5	
6	BLH 112	-		6.6		-		4.1		-		29		-		-	
7	WH-2002	-		4.1		-		-		-		-		-		-	
8	DH-291	-		34.2		-		-		-		-		-		-	
9	OMH 14-30(CAH 1514)	-		10.1		-		-		-		-		-		-	
10	MM9222	-		6.6		6.4		-		-		16.2		-		-	
11	WH-1003	-		34		-		-		-		-		-		-	
12	FCH-11267	-		26.2		4.7		7.9		-		-		-		-	
13	DH-303	2.7		-		-		-		-		-		-		-	
14	BLH 111	8.5		-		-		7		-		-		-		3.4	
15	IQ8712	-		-		-		5.2		3.4		17		-		-	
16	OMH 14-18(CAH 1519)	-		9.2		-		1.9		-		5.8		-		3.3	
17	KMH-14-37	-		-		-		-		-		-		-		-	
18	IQ8627	-		3.4		-		9.3		24.7		-		3.6		9.5	
19	GH-150114(CAH1414)	-		17.3		-		3.5		-		-		-		-	
20	VaMH 14020	7		-		-		-		-		-		-		-	
21	GH-150125(CAH1525)	-		-		2.6		-		-		-		-		-	
22	UDMH-129	-		4.8		-		-		-		2.4		-		-	
23	IQ8319	-		10		1.4		19.5		19.9		-		6.5		7.9	
24	IMHBG-2016-4	8.7		15.2		-		23		22.1		15.5		11.4		-	
25	UDMH-128	0.6		12.4		-		-		-		-		-		-	
26	GOLD-1155	1.6		-		-		4.4		-		-		-		-	
27	BLH 113	-		3.1		-		-		-		-		-		-	
28	IMHBG-2016-2	-		20.2		5.7		-		-		15.3		-		-	

TABLE No. 3 (Contd.)

Sl No	PEDIGREE	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
29	IMHBG-2016-5	-		45.5		-		-		-		-		-		-	
30	DH-302	-		-		-		-		-		7.1		-		-	
31	WH-2006	-		-		-		-		-		-		-		-	
32	IQ7802	4.2		18.8		9.5		6.3		-		0		6.1		5.1	
33	IMHBG-2016-1	-		20.2		-		-		-		2.5		-		-	
34	IIMRNH 2016-1	-		-		-		-		-		-		-		-	
35	Kranthi	10.7		13.4		-		-		-		-		-		-	
36	GH-150141(CAH1441)	0.2		1.2		-		-		-		-		-		-	
37	HM-9 (Filler)	-		-		-		-		-		-		-		-	
	CHECKS																
38	DHM 121(C)	-		10.1		-		-		-		-		-		-	
39	CMH 08-292(C)	-		-		-		-		-		-		-		-	
40	BIO 9544(C)	1.9		4.3		-		13.6		-		0.5		2.2		4.6	

TABLE No. 3 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9544(C) NHZ(ZN 1) BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	NWPZ ZN 2 MEAN	R
1	KMH-14-73	-		-		36.3		-		-		-		-		3		-		-	
2	JKMH 4157	16.6		-		-		-		-		16.8		-		16.8		-		1.5	
3	JKMH 1414	-		-		-		-		-		11.3		6.1		0.7		21.5		10.2	
4	Gagan	-		-		-		-		-		-		-		10.9		-		-	
5	IMHBG-2016-6	-		-		-		-		-		-		-		13.3		-		-	
6	BLH 112	15.5		-		-		-		-		-		-		-		-		-	
7	WH-2002	-		-		-		-		-		-		-		-		-		-	
8	DH-291	-		-		-		-		-		-		-		-		1.8		-	
9	OMH 14-30(CAH 1514)	-		-		-		-		-		-		-		7.6		-		-	
10	MM9222	-		-		-		2.7		-		-		-		-		-		-	
11	WH-1003	-		-		-		-		-		-		-		1.3		-		-	
12	FCH-11267	10.1		-		-		-		-		-		-		-		-		-	
13	DH-303	-		-		-		-		-		-		-		4.1		-		-	
14	BLH 111	16.2		-		-		-		-		12.1		-		-		2.2		-	
15	IQ8712	10.6		7.3		-		70		0.4		8.2		-		-		8.6		-	
16	OMH 14-18(CAH 1519)	-		17.4		-		45.3		3		4.7		-		-		-		-	
17	KMH-14-37	-		-		-		-		-		-		-		2.8		-		-	
18	IQ8627	-		-		-		-		-		6.6		-		3.4		6.9		3.6	
19	GH-150114(CAH1414)	-		-		-		-		-		1.3		-		14.5		-		-	
20	VaMH 14020	-		-		-		-		-		-		0.5		8.8		-		-	
21	GH-150125(CAH1525)	-		-		-		-		-		-		-		13.3		2.3		0.2	
22	UDMH-129	-		-		-		-		-		-		-		11.7		-		-	
23	IQ8319	19.2		1.1		8.1		-		10		17.2		-		6.5		-		-	
24	IMHBG-2016-4	-		5.1		-		0.4		-		-		-		21.5		-		-	
25	UDMH-128	-		-		39.1		-		-		-		4.3		9.5		-		-	
26	GOLD-1155	-		3		-		16.4		-		6		-		12.9		4.4		4	
27	BLH 113	-		-		-		-		-		-		-		14.7		-		-	
28	IMHBG-2016-2	2.3		-		-		-		-		-		-		8.1		-		-	

TABLE No. 3 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9544(C) NHZ(ZN 1) BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	NWPZ ZN 2 MEAN	R
29	IMHBG-2016-5	-		-		-		-		-		-		-		6.4		-		-	
30	DH-302	2.3		0.9		-		-		-		-		-		-		-		-	
31	WH-2006	-		-		-		-		-		-		-		-		-		-	
32	IQ7802	-		12.8		11.6		-		7.5		1.4		-		6.8		0.7		1.1	
33	IMHBG-2016-1	-		-		-		-		-		-		-		5.3		-		-	
34	IIMRNH 2016-1	-		-		-		11.2		-		-		-		2.6		-		-	
35	Kranthi	-		-		-		-		-		-		-		1.1		-		-	
36	GH-150141(CAH1441)	-		2.9		-		7.6		-		-		6.1		-		-		-	
37	HM-9 (Filler)	-		-		-		-		-		-		-		-		-		-	
	CHECKS																				
38	DHM 121(C)	6.3		-		-		0.2		-		-		-		4.1		-		-	
39	CMH 08-292(C)	-		-		-		3.2		-		-		-		-		-		-	
40	BIO 9544(C)	-		-		-		-		-		-		-		-		-		-	

TABLE No. 3 (Contd.)

		GRAIN YIELD % SUPERIORITY OVER THE BIO 9544(C)												NEPZ																PZ	
Sl														ZN 3																ZN 4	
No	PEDIGREE	DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R
1	KMH-14-73	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
2	JKMH 4157	-		5.1		-		17.7		21.6		15		11.4		27		37.4		43.8		3.8		-		-		23.7		7.4	
3	JKMH 1414	-		-		-		-		-		3.7		-		32.5		22.7		27.9		17.2		-		-		28.6		7.3	
4	Gagan	-		10.8		-		-		11.1		-		-		-		22.3		-		-		-		-		12.5		-	
5	IMHBG-2016-6	14.1		9.3		-		-		26.1		-		1.7		-		63.1		-		0.1		-		-		-		-	
6	BLH 112	-		-		-		-		-		-		-		3.8		19		-		-		-		-		0.1		-	
7	WH-2002	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
8	DH-291	-		-		-		-		-		-		-		-		13.1		-		-		-		-		-		-	
9	OMH 14-30(CAH 1514)	-		-		-		-		9.8		-		-		-		33		3.6		-		-		-		-		-	
10	MM9222	-		7.9		8.6		-		-		-		-		20.3		0.9		6.7		-		-		-		-		-	
11	WH-1003	-		-		-		-		-		-		-		-		0.3		-		-		-		-		14		-	
12	FCH-11267	32		-		-		-		4.3		-		-		5.3		88.9		26		-		-		-		-		1.7	
13	DH-303	-		-		-		-		-		-		-		3.2		28.5		22.6		-		-		-		-		-	
14	BLH 111	-		-		-		1.7		-		4.7		-		27.6		41.6		14		10.7		-		17.2		3.2		8.5	
15	IQ8712	-		1		8.4		-		-		-		-		22.1		13		7.4		-		-		-		20.1		-	
16	OMH 14-18(CAH 1519)	40.6		-		-		2.5		-		-		-		29.1		58.4		12.9		13		-		-		4.3		6.3	
17	KMH-14-37	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
18	IQ8627	-		11.2		-		29.6		-		20.4		7.1		20.4		53.5		31.2		-		-		10.2		4.8		10.3	
19	GH-150114(CAH1414)	-		-		-		-		-		-		-		-		50.6		0.8		1.9		-		-		-		-	
20	VaMH 14020	-		5.4		-		-		-		-		-		12		26.3		-		1.6		-		-		-		-	
21	GH-150125(CAH1525)	85.1		-		-		-		-		-		-		12.4		29		-		-		-		-		-		-	
22	UDMH-129	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
23	IQ8319	46.4		-		-		2.1		3		18.9		1		11.4		-		15.4		-		-		10.6		20.2		3.8	
24	IMHBG-2016-4	67.7		-		4.8		-		5.5		-		-		1.6		53.8		-		-		-		-		-		-	
25	UDMH-128	-		-		-		-		-		-		-		-		11.1		-		-		-		-		-		-	
26	GOLD-1155	-		-		-		-		-		-		-		11.9		7.1		22.2		-		-		-		6.4		-	
27	BLH 113	-		-		-		-		-		-		-		-		4		-		-		-		-		40.6		-	
28	IMHBG-2016-2	13.9		12.7		-		-		2.2		-		-		3.6		55.8		-		-		-		-		-		-	

TABLE No. 3 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9544(C) DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	NEPZ ZN 3 MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	PZ ZN 4 MEAN	R
29	IMHBG-2016-5	-		-		-		-		-		-		-		-		96		8.8		-		-		-		2.3		-	
30	DH-302	3.5		-		-		-		-		-		-		10.3		10.4		2.4		-		-		-		-		-	
31	WH-2006	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
32	IQ7802	-		0.8		-		-		-		0.3		-		15.1		43.1		23.2		6.7		-		-		9		4.2	
33	IMHBG-2016-1	-		-		-		-		-		-		-		-		49.3		15.7		-		-		-		-		-	
34	IIMRNH 2016-1	8.3		-		-		-		-		-		-		2.5		18		-		-		-		-		-		-	
35	Kranthi	-		-		-		-		-		-		-		-		28.3		0.1		-		-		-		-		-	
36	GH-150141(CAH1441)	-		-		-		-		-		-		-		14.2		50		17		-		-		-		-		-	
37	HM-9 (Filler)	17.7		1		-		-		-		-		-		-		10.9		-		-		-		-		-		-	
	CHECKS																														
38	DHM 121(C)	-		-		-		-		-		-		-		-		22.6		8.6		-		-		-		5.2		-	
39	CMH 08-292(C)	110.4		-		-		-		4.9		-		-		11		72.1		-		2		-		-		-		1.7	
40	BIO 9544(C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 3 (Contd.)

Sl No	PEDIGREE	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	KMH-14-73	-		16.7		-		-		-		-		-		-	
2	JKMH 4157	-		-		0.1		8		16.7		10.8		-		3.5	
3	JKMH 1414	0.7		3.7		6.1		12		-		-		1.8		0.6	
4	Gagan	-		-		-		-		-		-		-		-	
5	IMHBG-2016-6	1.9		-		7.2		10.3		5.9		29.7		5.5		-	
6	BLH 112	-		2.2		-		-		-		28.3		-		-	
7	WH-2002	-		-		-		-		-		-		-		-	
8	DH-291	-		28.7		-		-		-		-		-		-	
9	OMH 14-30(CAH 1514)	-		5.5		-		-		-		-		-		-	
10	MM9222	-		2.2		11		-		-		15.6		-		-	
11	WH-1003	-		28.5		-		-		-		-		-		-	
12	FCH-11267	-		21		9.2		-		-		-		-		-	
13	DH-303	0.7		-		-		-		-		-		-		-	
14	BLH 111	6.4		-		-		-		-		-		-		-	
15	IQ8712	-		-		-		-		6.9		16.4		-		-	
16	OMH 14-18(CAH 1519)	-		4.6		-		-		-		5.2		-		-	
17	KMH-14-37	-		-		-		-		-		-		-		-	
18	IQ8627	-		-		-		-		29		-		1.3		4.7	
19	GH-150114(CAH1414)	-		12.5		-		-		-		-		-		-	
20	VaMH 14020	5		-		-		-		-		-		-		-	
21	GH-150125(CAH1525)	-		-		7.1		-		-		-		-		-	
22	UDMH-129	-		0.5		-		-		-		1.8		-		-	
23	IQ8319	-		5.4		5.8		5.2		23.9		-		4.2		3.2	
24	IMHBG-2016-4	6.6		10.4		0.4		8.2		26.2		14.9		9		-	
25	UDMH-128	-		7.8		-		-		-		-		-		-	
26	GOLD-1155	-		-		-		-		1.5		-		-		-	
27	BLH 113	-		-		-		-		-		-		-		-	
28	IMHBG-2016-2	-		15.2		10.3		-		-		14.7		-		-	

TABLE No. 3 (Contd.)

Sl No	PEDIGREE	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
29	IMHBG-2016-5	-		39.4		-		-		-		-		-		-	
30	DH-302	-		-		-		-		-		6.6		-		-	
31	WH-2006	-		-		-		-		-		-		-		-	
32	IQ7802	2.2		13.8		14.2		-		-		-		3.8		0.5	
33	IMHBG-2016-1	-		15.2		-		-		-		2		-		-	
34	IIMRNH 2016-1	-		-		-		-		2.1		-		-		-	
35	Kranthi	8.6		8.8		-		-		-		-		-		-	
36	GH-150141(CAH1441)	-		-		-		-		-		-		-		-	
37	HM-9 (Filler)	-		-		-		-		-		-		-		-	
	CHECKS																
38	DHM 121(C)	-		5.5		-		-		-		-		-		-	
39	CMH 08-292(C)	-		-		4.3		-		3.4		-		-		-	
40	BIO 9544(C)	-		-		-		-		-		-		-		-	

TABLE No. 3 (Contd.)

		MOISTURE % AT HARVEST				NHZ					NWPZ							NEPZ
						ZN 1					ZN 2							ZN 3
S.No.	PEDIGREE	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	KMH-14-73	20.3	23.9	34.8	18.2	24.3	15.0	24.2	16.0	23.7	19.7	20.5	19.2	24.2	28.3	22.2	23.9	23.0
2	JKMH 4157	20.6	24.6	38.4	17.7	25.3	19.8	22.4	16.0	29.0	21.8	23.0	19.4	23.9	31.5	24.5	25.8	24.7
3	JKMH 1414	21.1	23.5	35.5	19.2	24.8	19.5	23.8	15.0	28.9	21.8	23.0	18.8	24.5	35.6	25.1	24.7	25.3
4	Gagan	19.7	24.0	34.8	17.8	24.1	17.3	24.8	15.3	28.1	21.4	19.5	19.3	23.4	30.4	24.9	25.1	23.8
5	IMHBG-2016-6	20.6	24.5	37.0	18.0	25.0	16.5	22.1	16.7	27.9	20.8	21.0	18.2	24.9	32.2	27.7	25.3	24.9
6	BLH 112	19.8	24.5	32.2	18.1	23.6	14.3	23.9	16.3	28.5	20.8	22.0	18.0	23.9	29.8	23.8	25.9	23.9
7	WH-2002	19.1	24.1	32.8	17.0	23.2	14.1	24.1	15.7	21.4	18.8	21.0	19.3	23.4	27.1	22.8	21.3	22.5
8	DH-291	20.7	24.0	35.7	17.6	24.5	15.6	22.6	15.7	28.5	20.6	22.5	19.7	24.4	29.9	23.9	25.2	24.3
9	OMH 14-30(CAH 1514)	20.2	24.5	35.9	17.4	24.5	14.7	22.1	18.0	28.3	20.8	23.0	19.3	24.5	28.6	24.5	29.1	24.8
10	MM9222	20.5	24.9	36.2	18.3	25.0	17.2	21.5	17.7	28.0	21.1	24.0	18.2	24.3	32.4	25.1	25.1	24.8
11	WH-1003	19.7	23.5	33.9	18.4	23.9	12.4	21.7	16.3	27.5	19.5	19.0	19.5	23.9	29.7	24.0	23.9	23.3
12	FCH-11267	20.7	25.0	37.2	17.3	25.0	17.4	24.1	15.7	28.3	21.4	22.0	19.0	24.3	31.9	26.8	26.4	25.1
13	DH-303	20.6	24.0	38.0	18.3	25.2	17.2	22.8	15.7	28.8	21.1	23.0	18.9	24.6	29.7	23.3	23.5	23.8
14	BLH 111	20.8	23.7	35.8	17.7	24.5	15.5	22.8	15.3	24.9	19.6	22.0	18.1	22.9	30.0	24.9	26.0	24.0
15	IQ8712	21.2	24.5	37.7	18.4	25.4	18.5	24.4	19.0	28.1	22.5	20.0	19.3	22.4	34.8	26.9	29.2	25.4
16	OMH 14-18(CAH 1519)	20.8	24.5	35.7	18.0	24.7	17.3	22.0	17.0	25.6	20.5	22.0	19.1	23.6	30.6	24.7	25.3	24.2
17	KMH-14-37	17.1	24.0	32.1	18.0	22.8	12.3	23.6	15.7	24.4	19.0	24.0	18.6	23.6	31.8	22.8	25.6	24.4
18	IQ8627	20.3	24.0	35.7	16.1	24.0	20.3	23.7	16.3	29.0	22.3	23.0	18.9	23.5	34.0	24.1	25.8	24.9
19	GH-150114(CAH1414)	20.5	24.4	35.9	18.3	24.8	17.5	22.6	15.7	29.0	21.2	21.0	18.0	23.9	33.3	24.8	27.0	24.7
20	VaMH 14020	20.6	23.6	36.2	17.7	24.5	20.1	23.3	16.0	27.7	21.8	20.0	18.5	23.8	32.9	24.8	26.4	24.4
21	GH-150125(CAH1525)	20.6	24.8	36.6	18.3	25.0	17.0	23.1	15.0	27.6	20.7	20.0	18.9	24.9	29.9	26.8	28.1	24.8
22	UDMH-129	20.1	23.8	35.9	18.2	24.5	15.3	21.6	15.0	27.9	20.0	21.0	18.8	24.3	31.4	23.8	24.6	24.0
23	IQ8319	20.5	24.1	36.6	18.2	24.8	20.2	24.1	16.3	29.0	22.4	22.0	19.1	24.0	34.6	24.7	26.5	25.1
24	IMHBG-2016-4	20.1	25.0	35.8	19.1	25.0	15.7	22.0	15.3	29.1	20.5	21.0	19.5	24.3	30.5	26.2	27.7	24.9
25	UDMH-128	20.5	24.1	32.4	19.0	24.0	14.8	21.7	15.3	27.9	19.9	20.0	18.6	24.7	29.1	22.3	25.1	23.3
26	GOLD-1155	20.6	24.5	37.2	18.0	25.1	19.9	23.7	16.0	28.4	22.0	20.0	19.6	24.9	33.2	23.9	26.3	24.6
27	BLH 113	20.4	24.0	35.9	17.2	24.4	14.8	22.5	14.7	29.0	20.2	22.0	18.7	24.3	30.5	24.2	25.1	24.1
28	IMHBG-2016-2	20.6	24.3	36.6	22.6	26.0	18.2	23.7	14.7	28.3	21.2	21.0	19.4	22.6	30.7	21.3	27.2	23.7

TABLE No. 3 (Contd.)

		MOISTURE % AT HARVEST				NHZ ZN 1					NWPZ ZN 2							NEPZ ZN 3
S.No.	PEDIGREE	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
29	IMHBG-2016-5	21.4	23.9	37.3	17.6	25.0	16.2	20.8	15.7	28.9	20.4	22.0	19.7	23.3	29.1	24.0	23.7	23.6
30	DH-302	20.3	24.1	38.1	17.7	25.1	16.2	21.4	16.3	28.4	20.6	20.5	20.0	24.0	27.8	24.8	24.1	23.5
31	WH-2006	19.6	24.1	37.9	18.2	24.9	14.5	23.9	17.0	28.2	20.9	20.0	18.6	25.0	30.3	23.0	24.0	23.5
32	IQ7802	20.0	23.7	36.2	16.3	24.0	16.9	22.9	15.0	28.3	20.7	22.0	18.1	23.8	32.5	23.0	26.8	24.4
33	IMHBG-2016-1	20.3	24.0	36.6	18.7	24.9	16.5	22.9	15.3	29.0	20.9	23.0	19.6	24.5	30.5	23.9	23.9	24.2
34	IIMRNH 2016-1	20.3	23.8	37.3	17.7	24.7	14.4	24.0	15.3	25.2	19.7	20.0	18.0	24.8	31.9	27.1	23.9	24.3
35	Kranthi	20.8	24.7	37.7	17.6	25.2	15.5	21.8	15.7	28.1	20.2	20.0	19.1	25.9	29.4	24.9	24.1	23.9
36	GH-150141(CAH1441)	20.4	24.1	38.3	18.9	25.4	16.4	21.5	16.0	28.8	20.7	22.0	19.3	23.3	29.1	24.0	27.4	24.2
37	HM-9 (Filler)	20.6	24.1	33.5	17.9	24.0	14.3	21.9	15.0	27.5	19.7	20.0	18.5	24.4	30.4	22.8	21.6	22.9
	CHECKS																	
38	DHM 121(C)	20.2	24.1	36.3	17.9	24.6	15.5	24.4	15.3	28.8	21.0	21.0	19.5	23.9	31.6	26.8	26.2	24.8
39	CMH 08-292(C)	20.9	24.3	36.9	18.4	25.1	17.6	24.0	15.3	29.8	21.7	23.0	18.3	23.3	31.0	26.0	24.4	24.3
40	BIO 9544(C)	20.6	24.1	36.1	18.2	24.7	20.0	22.3	16.3	28.5	21.8	22.0	19.4	25.3	33.0	25.0	26.5	25.2
	Loc. Mean	**20.3**	**24.2**	**36.0**	**18.1**	**24.6**	**16.5**	**22.9**	**15.9**	**27.8**	**20.8**	**21.5**	**19.0**	**24.1**	**31.0**	**24.5**	**25.4**	**24.2**
	C.D. (5%)	0.24	0.66	1.37	2.02	1.33	1.33	0.32	1.69	1.21	1.99	2.35	-	1.99	1.72	0.94	5.10	1.48
	C.V. (%)	0.74	1.67	2.33	6.88	3.86	4.93	0.85	6.55	2.67	6.83	6.74	-	4.10	3.41	2.36	12.34	5.38
	F (Prob)	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.44	0.00	0.00	0.65	0.01

TABLE No. 3 (Contd.)

		MOISTURE % AT HARVEST							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	KMH-14-73	17.5	22.3	14.8	17.7	16.4	21.0	13.9	17.6	23.0	16.5	11.9	16.6	16.1	16.5	16.8	19.9
2	JKMH 4157	26.5	22.0	16.8	19.6	16.5	26.2	14.3	20.2	23.2	16.7	16.2	14.4	15.2	19.6	17.5	21.6
3	JKMH 1414	26.5	21.1	17.0	18.9	17.4	29.6	14.4	20.7	22.9	17.8	13.9	16.7	16.4	23.8	18.6	22.0
4	Gagan	23.7	23.1	14.8	18.6	17.3	21.6	14.0	19.0	23.1	16.4	14.2	17.5	16.2	20.0	17.9	20.9
5	IMHBG-2016-6	24.0	20.4	17.3	19.5	17.4	25.3	13.9	19.7	22.7	17.3	18.5	14.4	16.4	20.4	18.3	21.5
6	BLH 112	21.4	20.4	15.4	18.8	16.4	23.5	14.8	18.7	22.9	16.7	14.0	15.9	13.8	19.0	17.0	20.5
7	WH-2002	14.0	23.6	13.7	16.4	15.7	20.2	12.9	16.6	22.9	16.8	12.7	17.4	14.3	11.6	15.9	19.1
8	DH-291	21.4	23.2	15.7	18.0	16.3	20.1	12.8	18.2	22.8	17.1	15.6	16.6	15.8	16.4	17.4	20.6
9	OMH 14-30(CAH 1514)	22.1	22.6	16.2	18.0	16.6	25.0	13.5	19.1	22.9	17.3	13.4	15.6	15.4	18.5	17.2	21.0
10	MM9222	23.5	23.6	20.0	19.9	17.4	24.2	14.0	20.3	22.7	17.1	18.7	15.4	16.1	18.3	18.0	21.6
11	WH-1003	22.3	21.4	15.0	18.5	15.8	21.9	14.5	18.5	23.2	16.2	11.2	16.9	15.1	17.6	16.7	20.1
12	FCH-11267	23.0	20.6	18.7	19.2	17.5	26.4	15.7	20.1	23.0	18.5	21.1	14.5	14.6	20.6	18.7	21.8
13	DH-303	24.6	23.4	20.3	19.6	16.8	24.2	14.8	20.5	22.8	16.6	16.0	18.2	18.3	17.8	18.3	21.5
14	BLH 111	24.5	21.9	15.0	18.8	16.3	24.6	14.0	19.3	22.6	17.1	11.8	19.2	15.2	21.8	17.9	20.8
15	IQ8712	26.4	23.0	21.4	19.9	17.1	24.3	13.3	20.7	22.5	16.6	15.0	16.7	15.4	23.5	18.3	22.2
16	OMH 14-18(CAH 1519)	22.6	22.0	18.8	18.4	17.2	22.5	14.1	19.4	22.9	16.6	18.9	15.6	16.8	19.7	18.4	21.2
17	KMH-14-37	19.5	23.1	11.8	16.7	17.1	22.5	13.0	17.7	22.7	17.5	12.3	13.9	16.2	14.6	16.2	19.8
18	IQ8627	25.2	22.1	18.6	19.6	16.2	26.4	14.3	20.3	22.5	16.8	18.1	14.4	16.2	21.3	18.2	21.7
19	GH-150114(CAH1414)	22.8	22.3	20.5	18.5	16.6	24.1	13.8	19.8	22.8	16.5	16.5	14.8	16.2	23.3	18.3	21.5
20	VaMH 14020	24.8	22.3	20.6	19.8	18.2	27.2	14.5	21.0	22.7	16.9	18.9	15.8	18.8	21.0	19.0	21.9
21	GH-150125(CAH1525)	21.4	22.3	14.6	18.4	16.3	22.6	13.5	18.4	22.8	16.5	16.3	16.0	15.2	19.5	17.7	21.0
22	UDMH-129	21.3	25.8	18.0	19.5	17.4	26.1	14.3	20.3	22.9	17.2	14.2	17.0	16.2	20.1	17.9	21.2
23	IQ8319	26.2	22.7	20.2	19.3	18.2	23.5	13.9	20.5	22.8	17.0	18.5	15.2	14.8	19.8	18.0	21.9
24	IMHBG-2016-4	24.3	22.7	18.5	19.3	16.7	25.0	14.3	20.1	23.2	17.0	19.7	14.2	14.3	20.6	18.2	21.5
25	UDMH-128	19.0	22.4	14.3	17.7	17.1	23.2	13.8	18.2	22.9	17.1	11.8	14.5	13.3	17.3	16.1	20.0
26	GOLD-1155	23.4	20.9	17.8	19.3	16.8	21.8	14.9	19.2	22.5	17.1	18.3	14.1	16.8	20.6	18.2	21.5
27	BLH 113	23.1	22.7	17.0	19.3	15.6	23.5	14.5	19.4	22.8	16.2	15.2	15.3	16.2	18.6	17.4	20.8
28	IMHBG-2016-2	27.5	24.0	20.1	19.0	16.5	25.4	15.7	21.2	22.9	17.4	18.7	17.4	17.8	20.9	19.2	22.0

TABLE No. 3 (Contd.)

S.No.	PEDIGREE	MOISTURE % AT HARVEST HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
29	IMHBG-2016-5	21.3	22.5	15.9	19.0	16.3	23.2	13.6	18.8	22.8	17.2	11.5	16.5	13.4	17.3	16.5	20.5
30	DH-302	23.3	23.4	16.8	19.6	17.0	21.9	13.9	19.4	22.8	16.8	16.9	14.8	15.7	19.5	17.7	21.0
31	WH-2006	20.7	20.7	16.5	18.2	17.2	24.5	15.9	19.1	23.0	16.5	14.7	15.5	14.2	18.8	17.1	20.8
32	IQ7802	23.7	23.6	18.4	19.1	15.4	23.3	14.4	19.7	22.9	17.3	12.7	16.4	16.2	22.1	17.9	21.1
33	IMHBG-2016-1	23.0	22.4	17.3	17.4	17.0	23.9	13.8	19.3	23.0	17.4	13.9	15.9	14.6	19.6	17.4	21.0
34	IIMRNH 2016-1	23.1	22.9	15.0	18.4	17.4	24.0	13.8	19.2	23.0	16.5	16.7	18.6	15.6	18.5	18.1	21.0
35	Kranthi	24.7	25.5	18.3	19.1	18.1	25.9	13.9	20.8	22.3	16.9	14.5	17.5	13.8	18.6	17.3	21.3
36	GH-150141(CAH1441)	24.2	22.2	19.5	18.8	17.2	26.2	13.7	20.3	22.8	16.9	13.6	16.9	18.0	18.6	17.8	21.4
37	HM-9 (Filler)	23.4	22.7	16.0	17.6	16.1	22.4	13.3	18.8	22.8	17.0	13.3	16.4	16.2	16.3	17.0	20.2
	CHECKS																
38	DHM 121(C)	24.4	23.3	18.5	19.6	16.0	23.0	14.2	19.8	22.4	17.6	17.4	14.7	15.3	23.1	18.4	21.5
39	CMH 08-292(C)	23.3	23.3	16.0	19.3	15.8	24.8	14.2	19.5	22.7	17.4	19.4	17.7	14.3	18.5	18.3	21.5
40	BIO 9544(C)	26.4	23.9	19.9	19.2	17.3	26.3	13.5	20.9	23.0	17.6	16.0	17.6	14.8	19.6	18.1	21.9
	Loc. Mean	**23.1**	**22.6**	**17.3**	**18.8**	**16.8**	**24.0**	**14.1**	**19.5**	**22.8**	**17.0**	**15.6**	**16.0**	**15.6**	**19.3**	**17.7**	**21.1**
	C.D. (5%)	2.30	1.50	2.68	0.67	1.13	0.62	0.46	1.44	0.66	0.62	1.33	-	0.00	3.95	1.83	0.72
	C.V. (%)	6.12	4.07	9.54	2.18	4.15	1.59	2.00	7.03	1.78	2.25	5.28	-	0.00	12.59	9.09	6.37
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.08	0.00

TABLE No. 3 (Contd.)

		GRAIN SHELLING %				NHZ					NWPZ							NEPZ
						ZN 1					ZN 2							ZN 3
S.No.	PEDIGREE	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	KMH-14-73	85.4	82.6	81.4	73.4	80.7	83.0	80.4	74.0	82.8	80.0	78.5	80.7	80.5	76.5	76.2	80.8	78.9
2	JKMH 4157	85.8	85.0	80.1	69.0	80.0	85.9	79.6	75.0	82.9	80.8	80.0	80.5	87.1	77.0	80.7	80.0	80.9
3	JKMH 1414	82.3	82.5	79.1	83.8	81.9	86.1	80.3	73.0	84.5	81.0	77.0	81.9	81.4	80.0	74.7	84.0	79.8
4	Gagan	85.0	86.4	80.6	62.5	78.6	83.1	80.1	72.0	83.4	79.6	81.0	80.6	79.7	74.0	78.7	79.9	79.0
5	IMHBG-2016-6	81.7	78.6	78.1	78.4	79.2	81.9	80.7	71.0	83.8	79.3	81.0	79.7	82.6	76.0	81.8	77.1	79.7
6	BLH 112	87.9	77.0	81.8	76.5	80.8	83.0	77.4	70.0	83.5	78.5	79.5	79.7	78.8	77.0	79.4	77.9	78.7
7	WH-2002	84.2	80.0	81.6	70.3	79.0	82.9	80.5	72.0	75.0	77.6	81.0	78.0	78.6	73.5	78.7	80.7	78.4
8	DH-291	85.1	84.8	82.2	71.9	81.0	84.4	79.4	73.3	86.6	80.9	75.0	79.3	83.8	79.5	79.8	80.3	79.6
9	OMH 14-30(CAH 1514)	81.8	84.9	80.2	70.0	79.2	82.8	81.0	78.0	86.0	82.0	83.0	80.3	85.2	75.0	79.6	77.1	80.0
10	MM9222	81.6	82.9	74.8	77.4	79.2	80.6	81.2	74.0	83.0	79.7	78.5	81.4	83.4	77.0	77.6	77.8	79.3
11	WH-1003	90.8	84.2	84.7	81.0	85.1	83.7	77.4	75.0	80.7	79.2	79.0	78.9	79.5	80.0	77.3	81.7	79.4
12	FCH-11267	82.5	82.0	77.8	76.3	79.6	80.1	80.3	74.0	79.1	78.4	79.5	81.6	82.0	75.5	75.3	77.9	78.6
13	DH-303	84.7	83.1	80.4	80.0	82.0	81.0	77.6	72.3	85.3	79.1	81.0	77.7	84.3	78.0	74.5	80.6	79.3
14	BLH 111	87.1	85.1	81.0	72.7	81.4	86.4	78.7	72.0	86.3	80.8	81.0	79.0	83.2	77.5	80.0	81.9	80.4
15	IQ8712	81.3	85.9	79.4	75.8	80.6	82.0	80.8	71.0	85.1	79.7	81.0	79.3	84.7	79.0	76.0	76.7	79.4
16	OMH 14-18(CAH 1519)	87.7	85.5	84.0	76.3	83.3	83.9	76.2	73.3	83.5	79.2	78.5	79.5	84.3	79.5	80.6	79.9	80.4
17	KMH-14-37	88.7	82.6	82.0	77.8	82.7	85.6	81.7	74.3	84.9	81.6	77.0	80.3	82.3	78.0	75.6	79.4	78.8
18	IQ8627	82.6	83.8	77.6	66.0	77.5	82.2	80.1	72.3	78.5	78.3	78.5	81.8	82.6	79.0	76.6	76.0	79.1
19	GH-150114(CAH1414)	82.4	82.6	80.8	69.2	78.7	86.0	80.7	75.7	81.1	80.9	80.0	79.3	85.6	76.0	79.3	81.8	80.3
20	VaMH 14020	84.7	83.2	81.8	69.1	79.7	84.9	80.1	74.3	87.1	81.6	78.5	82.6	83.5	82.0	78.4	79.5	80.7
21	GH-150125(CAH1525)	77.5	82.5	77.8	66.5	76.1	82.6	80.2	74.7	83.0	80.1	81.0	79.8	84.3	76.0	74.8	77.5	78.9
22	UDMH-129	87.3	84.6	82.6	76.3	82.7	85.4	78.7	74.7	82.9	80.4	81.0	80.0	81.8	80.5	76.8	81.7	80.3
23	IQ8319	83.3	83.2	77.1	75.0	79.6	81.4	75.6	76.0	80.7	78.4	80.0	81.5	82.4	78.5	76.4	78.2	79.5
24	IMHBG-2016-4	81.0	81.5	78.5	80.0	80.2	79.9	80.5	76.7	85.5	80.6	76.0	81.3	83.3	75.5	74.5	78.7	78.2
25	UDMH-128	85.5	83.4	82.1	70.0	80.2	81.2	78.6	75.3	83.3	79.6	80.5	79.2	81.7	74.5	76.4	81.1	78.9
26	GOLD-1155	82.5	83.5	79.3	71.4	79.2	85.1	76.4	76.0	83.8	80.3	81.0	80.7	81.5	76.0	78.5	79.9	79.6
27	BLH 113	89.3	85.0	80.0	76.5	82.7	85.8	79.4	75.7	87.3	82.0	79.5	80.9	87.4	79.5	67.0	82.8	79.5
28	IMHBG-2016-2	84.2	83.0	80.8	79.0	81.7	83.1	80.6	75.3	85.8	81.2	79.0	82.1	84.0	77.5	79.9	78.1	80.1

TABLE No. 3 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % BAJA	UDHA	KANG	GOSS	NHZ ZN 1 Mean	LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	NEPZ ZN 3 Mean
29	IMHBG-2016-5	82.1	81.2	77.8	78.3	79.8	79.4	80.8	75.0	84.5	79.9	81.0	80.7	82.2	70.5	71.6	76.8	77.1
30	DH-302	82.8	83.6	82.1	76.8	81.3	81.3	78.8	71.3	82.8	78.6	78.5	78.8	84.5	75.0	76.0	76.9	78.3
31	WH-2006	86.4	84.3	81.6	75.9	82.0	82.0	80.4	73.0	87.0	80.6	77.0	78.3	83.2	76.5	80.0	82.5	79.6
32	IQ7802	85.4	84.5	81.1	69.6	80.1	83.8	79.6	76.7	83.5	80.9	79.5	81.5	84.1	79.5	77.1	81.1	80.5
33	IMHBG-2016-1	82.0	81.0	78.9	80.5	80.6	82.4	76.6	74.7	83.9	79.4	79.5	80.2	83.8	77.5	79.5	75.6	79.3
34	IIMRNH 2016-1	85.3	83.8	81.1	78.5	82.2	81.8	77.8	71.7	85.3	79.1	81.0	81.2	85.2	76.5	75.8	77.6	79.5
35	Kranthi	86.7	84.0	81.2	77.5	82.3	82.6	78.8	72.0	84.8	79.5	83.0	80.9	83.1	77.0	77.2	76.0	79.5
36	GH-150141(CAH1441)	81.3	84.7	79.7	75.7	80.3	83.2	78.0	75.0	83.7	80.0	79.5	78.0	84.7	78.0	75.7	77.6	78.9
37	HM-9 (Filler)	86.8	80.7	75.7	76.2	79.8	81.3	80.9	76.7	85.7	81.1	80.5	80.6	79.7	75.5	76.8	77.5	78.4
	CHECKS																	
38	DHM 121(C)	79.2	81.6	78.2	65.9	76.2	83.4	78.6	76.7	78.8	79.4	79.5	81.3	82.8	75.0	75.4	76.5	78.4
39	CMH 08-292(C)	87.4	85.2	83.2	81.2	84.2	82.8	79.9	75.3	82.9	80.2	79.5	79.4	82.3	78.0	75.4	80.3	79.1
40	BIO 9544(C)	83.4	81.1	81.0	79.5	81.2	83.5	77.5	73.7	85.6	80.1	77.5	80.7	83.4	75.0	80.1	78.5	79.2
	Loc. Mean	**84.3**	**83.1**	**80.2**	**74.7**	**80.6**	**83.0**	**79.3**	**74.1**	**83.6**	**80.0**	**79.6**	**80.2**	**83.0**	**77.1**	**77.1**	**79.1**	**79.3**
	C.D. (5%)	-	1.90	1.54	7.81	4.17	1.85	0.31	1.40	1.57	2.73	2.40	0.00	2.65	2.07	2.10	4.04	2.38
	C.V. (%)	-	1.41	1.18	6.43	3.70	1.37	0.24	1.17	1.16	2.43	1.85	0.00	1.58	1.66	1.68	3.14	2.64
	F (Prob)	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.76

TABLE No. 3 (Contd.)

		GRAIN SHELLING %							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	KMH-14-73	76.8	78.3	86.8	80.0	75.8	80.7	87.0	80.7	82.9	77.0	86.3	79.2	80.7	74.4	80.1	80.1
2	JKMH 4157	77.5	81.9	87.6	80.5	78.4	81.0	87.0	82.0	83.0	72.3	86.6	77.2	87.2	77.7	80.7	81.0
3	JKMH 1414	77.1	79.0	89.5	82.0	77.0	81.9	85.0	81.6	82.6	77.0	87.2	80.0	87.1	76.6	81.7	81.2
4	Gagan	80.4	80.1	83.3	83.0	78.6	80.6	86.5	81.8	82.7	72.2	80.9	79.5	85.2	76.2	79.4	79.8
5	IMHBG-2016-6	74.9	77.9	84.5	82.0	77.1	76.5	82.5	79.3	82.8	75.9	88.5	76.7	79.3	76.9	80.0	79.5
6	BLH 112	81.1	79.6	83.6	82.0	77.0	84.0	85.5	81.8	82.8	77.2	87.0	79.9	86.2	82.2	82.5	80.6
7	WH-2002	76.9	80.0	80.9	80.5	78.0	81.2	83.0	80.1	82.9	74.1	81.1	79.6	81.4	75.3	79.0	78.9
8	DH-291	76.9	79.8	83.3	80.4	77.8	80.1	84.0	80.3	83.0	77.1	86.4	78.6	86.5	77.1	81.4	80.6
9	OMH 14-30(CAH 1514)	84.2	79.7	88.3	78.1	77.4	80.8	84.0	81.8	83.0	75.8	86.7	78.4	81.2	74.3	79.9	80.6
10	MM9222	75.7	78.3	89.1	80.5	77.5	81.3	84.5	81.0	82.8	76.9	84.7	76.3	85.1	76.7	80.4	80.0
11	WH-1003	79.5	76.5	87.5	76.8	75.8	86.5	86.0	81.2	82.6	76.1	86.9	80.9	89.9	82.5	83.2	81.5
12	FCH-11267	74.9	79.4	85.3	82.5	78.6	75.2	80.5	79.5	83.0	76.7	86.6	76.5	82.0	74.1	79.8	79.2
13	DH-303	78.9	80.5	88.1	80.1	78.5	80.0	85.5	81.6	82.5	75.8	86.6	79.7	86.0	77.9	81.4	80.8
14	BLH 111	81.4	82.3	88.1	79.8	77.1	83.3	87.0	82.7	82.8	77.2	80.6	79.2	88.2	76.1	80.7	81.3
15	IQ8712	78.8	80.5	85.2	79.3	81.7	81.6	84.5	81.6	82.6	75.3	75.3	77.4	86.8	78.3	79.3	80.2
16	OMH 14-18(CAH 1519)	79.8	81.0	87.4	79.0	79.4	82.2	84.0	81.8	82.9	76.7	83.7	78.3	85.2	79.8	81.1	81.2
17	KMH-14-37	79.4	80.0	86.1	81.8	77.5	81.1	87.5	81.9	82.7	75.6	89.0	76.3	88.9	80.4	82.1	81.3
18	IQ8627	73.7	80.7	87.2	78.0	78.6	81.2	82.5	80.3	83.1	74.4	82.5	76.3	82.7	76.7	79.3	79.1
19	GH-150114(CAH1414)	74.5	81.4	87.5	78.1	78.5	77.1	82.5	79.9	83.0	76.3	82.4	77.2	86.0	69.2	79.0	79.8
20	VaMH 14020	80.1	79.4	86.5	79.1	75.8	79.2	83.0	80.4	82.9	73.3	81.9	76.5	84.2	73.6	78.7	80.2
21	GH-150125(CAH1525)	82.7	78.9	84.7	79.3	80.2	80.4	84.0	81.4	82.5	75.9	89.3	79.6	85.6	71.0	80.6	79.7
22	UDMH-129	80.7	82.1	87.0	80.5	77.9	83.3	87.5	82.7	82.7	77.4	84.9	80.2	90.1	80.7	82.7	81.8
23	IQ8319	74.0	80.8	88.5	79.1	79.5	79.2	82.0	80.4	82.8	76.9	82.9	76.7	85.6	74.2	79.8	79.7
24	IMHBG-2016-4	74.6	79.0	85.0	78.8	79.8	76.6	81.0	79.2	83.0	74.6	83.3	76.0	80.9	73.7	78.6	79.2
25	UDMH-128	81.8	81.2	78.4	79.0	75.8	79.4	86.0	80.2	82.8	75.3	78.5	77.1	89.0	77.4	80.0	79.8
26	GOLD-1155	78.9	80.9	86.5	78.8	78.1	78.1	82.5	80.5	82.7	76.0	86.1	76.4	87.4	73.2	80.3	80.0
27	BLH 113	82.9	83.8	92.1	81.0	77.8	83.0	88.0	84.1	82.9	75.9	89.3	78.9	88.2	78.6	82.3	82.2
28	IMHBG-2016-2	80.1	79.4	85.3	82.3	76.5	79.8	82.0	80.8	82.7	77.3	86.0	78.4	83.2	77.4	80.8	80.8

TABLE No. 3 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
29	IMHBG-2016-5	73.9	80.3	86.3	79.7	79.1	75.4	83.0	79.7	82.5	76.1	75.6	78.2	80.3	69.9	77.1	78.6
30	DH-302	82.6	79.6	88.6	81.5	77.2	80.5	83.5	81.9	83.0	77.0	81.7	78.0	85.6	77.1	80.4	80.2
31	WH-2006	77.8	78.7	84.4	80.1	76.5	80.6	85.0	80.4	82.5	73.9	81.2	79.1	88.3	79.4	80.7	80.6
32	IQ7802	79.4	79.6	87.1	82.3	77.6	80.9	85.5	81.8	82.6	76.3	87.6	76.0	89.6	78.5	81.8	81.1
33	IMHBG-2016-1	80.0	79.8	89.4	78.3	76.8	78.1	83.0	80.8	82.6	77.4	87.6	79.1	82.8	76.2	80.9	80.3
34	IIMRNH 2016-1	75.4	78.9	83.1	78.0	78.2	78.1	83.5	79.3	82.5	76.1	88.3	78.8	80.8	76.5	80.5	80.0
35	Kranthi	78.4	81.6	86.9	80.8	78.6	80.5	86.0	81.8	83.0	76.5	88.6	77.0	85.1	76.4	81.1	80.9
36	GH-150141(CAH1441)	78.9	79.1	86.8	80.5	77.0	81.4	83.5	81.0	83.0	74.3	83.9	77.5	84.9	75.5	79.8	80.0
37	HM-9 (Filler)	76.2	82.4	83.7	80.6	75.7	80.1	81.5	80.0	83.0	76.6	74.5	76.5	84.2	76.4	78.5	79.5
	CHECKS																
38	DHM 121(C)	75.3	78.6	81.8	80.6	78.3	77.2	84.5	79.5	82.5	76.5	78.3	78.2	70.7	74.4	76.8	78.1
39	CMH 08-292(C)	81.1	80.9	85.3	78.0	78.3	79.9	86.0	81.4	82.8	75.8	82.0	77.7	84.0	78.6	80.1	80.9
40	BIO 9544(C)	78.9	79.6	88.1	78.0	82.3	82.3	85.5	82.1	82.8	79.0	85.2	78.3	84.1	77.3	81.1	80.8
	Loc. Mean	**78.4**	**80.0**	**86.1**	**80.0**	**77.9**	**80.3**	**84.4**	**81.0**	**82.8**	**75.9**	**84.2**	**78.0**	**84.8**	**76.5**	**80.3**	**80.3**
	C.D. (5%)	6.45	2.01	3.22	1.08	1.92	0.43	1.12	2.02	0.49	2.24	4.07	2.40	0.00	4.01	2.77	1.21
	C.V. (%)	5.06	1.55	2.30	0.83	1.52	0.33	0.81	2.37	0.36	1.81	2.98	1.90	0.00	3.22	3.02	2.82
	F (Prob)	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 3 (Contd.)

		STAND AT HARVEST ('000/ha)				NHZ					NWPZ							NEPZ
						ZN 1					ZN 2							ZN 3
S.No.	PEDIGREE	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	KMH-14-73	58.3	60.4	82.1	74.3	68.8	76.4	60.0	78.5	60.7	68.9	40.6	59.0	76.8	61.8	65.3	63.2	61.1
2	JKMH 4157	63.9	74.3	73.2	81.9	73.3	76.4	59.4	76.4	60.7	68.2	38.3	60.4	73.2	60.4	68.8	75.7	62.8
3	JKMH 1414	55.6	75.7	73.2	82.6	71.8	86.1	59.4	78.5	61.5	71.4	40.6	58.3	70.5	62.5	72.9	74.3	63.2
4	Gagan	49.1	77.1	75.8	79.2	70.3	73.6	58.9	68.8	63.7	66.2	34.4	62.5	64.3	56.9	63.2	69.4	58.5
5	IMHBG-2016-6	63.9	75.7	78.3	81.3	74.8	75.0	59.4	75.7	63.7	68.5	42.2	63.2	66.1	68.8	70.8	81.9	65.5
6	BLH 112	59.3	76.4	79.5	75.7	72.7	75.7	57.2	75.7	63.0	67.9	48.3	61.8	66.1	67.4	71.5	77.8	65.5
7	WH-2002	63.0	77.1	80.8	79.9	75.2	84.0	57.8	73.6	62.2	69.4	33.3	58.3	76.8	63.2	62.5	62.5	59.4
8	DH-291	51.9	75.0	78.3	79.2	71.1	79.9	60.0	74.3	63.0	69.3	37.2	64.6	67.0	61.1	58.3	77.1	60.9
9	OMH 14-30(CAH 1514)	71.3	75.7	77.0	84.0	77.0	84.0	57.8	77.8	61.5	70.3	43.3	59.0	72.3	68.8	67.4	76.4	64.5
10	MM9222	54.6	76.4	73.2	76.4	70.2	72.2	58.9	77.8	61.5	67.6	39.4	61.1	66.1	61.8	66.0	70.1	60.8
11	WH-1003	53.7	77.1	75.8	86.1	73.2	78.5	60.6	73.6	55.6	67.0	37.2	63.9	70.5	63.9	77.1	75.0	64.6
12	FCH-11267	59.3	77.8	75.8	79.9	73.2	80.6	58.9	73.6	60.7	68.4	42.2	58.3	66.1	63.9	67.4	68.1	61.0
13	DH-303	52.8	75.0	74.5	82.6	71.2	85.4	57.2	70.8	60.7	68.6	37.8	62.5	67.0	64.6	64.6	76.4	62.1
14	BLH 111	63.0	75.0	77.0	80.6	73.9	80.6	60.6	74.3	63.7	69.8	37.8	62.5	71.4	63.2	70.8	78.5	64.0
15	IQ8712	66.7	78.5	82.1	84.0	77.8	73.6	61.7	73.6	65.9	68.7	38.3	60.4	69.6	59.7	59.0	79.9	61.2
16	OMH 14-18(CAH 1519)	48.1	77.1	79.5	75.7	70.1	82.6	62.8	75.0	58.5	69.7	42.8	57.6	65.2	66.0	72.9	73.6	63.0
17	KMH-14-37	47.2	75.7	75.8	78.5	69.3	84.7	61.1	77.8	63.7	71.8	42.2	63.2	68.8	69.4	71.5	57.6	62.1
18	IQ8627	55.6	77.8	82.1	77.8	73.3	79.9	58.3	77.1	64.4	69.9	42.2	62.5	71.4	70.1	63.2	78.5	64.7
19	GH-150114(CAH1414)	55.6	78.5	74.5	79.2	71.9	83.3	60.0	156.9	61.5	90.4	42.8	61.1	70.5	69.4	70.8	77.8	65.4
20	VaMH 14020	55.6	73.6	82.1	77.8	72.3	79.9	58.3	154.2	61.5	88.5	35.0	60.4	72.3	66.7	56.3	75.7	61.1
21	GH-150125(CAH1525)	63.9	76.4	73.2	80.6	73.5	84.0	61.1	154.2	65.9	91.3	41.7	63.9	74.1	66.7	63.9	79.2	64.9
22	UDMH-129	54.6	77.1	78.3	75.7	71.4	74.3	60.0	156.9	65.9	89.3	39.4	61.8	77.7	65.3	66.7	78.5	64.9
23	IQ8319	59.3	75.7	84.6	77.1	74.2	81.3	60.6	152.8	63.0	89.4	38.3	60.4	74.1	70.8	64.6	72.2	63.4
24	IMHBG-2016-4	51.9	75.0	74.5	79.2	70.1	72.2	59.4	155.6	62.2	87.4	42.8	60.4	70.5	62.5	61.8	75.0	62.2
25	UDMH-128	57.4	73.6	84.6	83.3	74.7	78.5	61.7	155.6	62.2	89.5	43.3	60.4	69.6	67.4	68.1	77.8	64.4
26	GOLD-1155	55.6	77.1	82.1	81.3	74.0	86.1	57.2	155.6	63.7	90.6	32.8	62.5	63.4	64.6	59.7	76.4	59.9
27	BLH 113	54.6	74.3	77.0	79.9	71.5	82.6	60.0	160.4	59.3	90.6	38.9	59.7	75.9	66.7	66.7	67.4	62.5
28	IMHBG-2016-2	65.7	74.3	75.8	75.0	72.7	80.6	60.0	161.1	63.0	91.2	41.1	63.9	67.0	63.2	66.7	76.4	63.0

TABLE No. 3 (Contd.)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) BAJA	UDHA	KANG	GOSS	NHZ ZN 1 Mean	LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	NEPZ ZN 3 Mean
29	IMHBG-2016-5	70.4	75.0	79.5	70.8	73.9	81.9	57.8	161.1	63.7	91.1	43.3	59.7	68.8	63.9	67.4	77.1	63.4
30	DH-302	63.9	73.6	78.3	87.5	75.8	79.2	57.2	158.3	61.5	89.1	37.2	62.5	69.6	67.4	59.7	70.1	61.1
31	WH-2006	49.1	79.9	78.3	70.1	69.3	58.3	60.6	158.3	58.5	83.9	41.1	59.7	52.7	65.3	60.4	72.9	58.7
32	IQ7802	63.9	77.8	79.5	86.1	76.8	82.6	60.0	156.9	66.7	91.6	36.7	59.7	74.1	68.8	66.7	77.8	63.9
33	IMHBG-2016-1	53.7	75.0	78.3	78.5	71.4	84.7	58.3	162.5	62.2	91.9	37.8	56.9	73.2	65.3	59.7	74.3	61.2
34	IIMRNH 2016-1	50.9	75.7	78.3	77.1	70.5	71.5	58.9	158.3	63.7	88.1	40.0	61.8	70.5	66.0	66.7	70.1	62.5
35	Kranthi	56.5	57.6	77.0	78.5	67.4	77.8	58.9	158.3	60.7	88.9	41.1	61.1	64.3	60.4	67.4	78.5	62.1
36	GH-150141(CAH1441)	54.6	75.7	80.8	76.4	71.9	80.6	58.9	161.1	63.0	90.9	40.6	61.8	74.1	67.4	65.3	77.1	64.4
37	HM-9 (Filler)	55.6	56.9	79.5	66.7	64.7	78.5	60.6	158.3	62.2	89.9	36.7	59.7	70.5	68.8	63.9	54.9	59.1
	CHECKS																	
38	DHM 121(C)	55.6	75.7	77.0	72.9	70.3	78.5	59.4	156.3	63.7	89.5	39.4	61.1	69.6	66.0	57.6	75.7	61.6
39	CMH 08-292(C)	57.4	76.4	82.1	86.8	75.7	79.2	57.2	159.7	64.4	90.1	42.8	58.3	69.6	63.2	67.4	77.8	63.2
40	BIO 9544(C)	50.0	77.1	78.3	88.2	73.4	84.0	60.6	158.3	63.0	91.5	37.8	60.4	67.9	66.0	75.0	77.8	64.1
	Loc. Mean	**57.3**	**74.7**	**78.2**	**79.2**	**72.4**	**79.2**	**59.4**	**120.6**	**62.4**	**80.4**	**39.7**	**60.9**	**69.7**	**65.1**	**65.9**	**73.9**	**62.5**
	C.D. (5%)	7.93	3.94	8.51	14.17	6.44	10.00	3.01	4.87	5.33	29.43	9.84	5.19	9.83	6.26	6.36	8.06	4.59
	C.V. (%)	8.51	3.24	6.70	11.01	6.35	7.76	3.12	2.48	5.25	26.14	15.24	5.25	6.97	5.91	5.94	6.71	6.45
	F (Prob)	0.00	0.00	0.43	0.67	0.11	0.00	0.03	0.00	0.15	0.46	0.76	0.43	0.04	0.00	0.00	0.00	0.08

Locations Rejected due to High C.V.(i.e.> 20%) : Mean!ZN 2 26.1%

TABLE No. 3 (Contd.)

		STAND AT HARVEST ('000/ha							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	KMH-14-73	62.8	55.6	79.9	70.8	49.3	66.0	52.8	62.4	63.9	63.2	65.6	50.6	45.8	25.6	52.4	61.8
2	JKMH 4157	66.1	60.6	75.0	69.4	54.9	63.9	55.0	63.6	63.9	54.9	65.6	68.3	65.6	35.6	59.0	64.5
3	JKMH 1414	61.7	63.3	75.0	70.8	57.6	66.7	55.0	64.3	63.2	59.0	66.7	69.4	57.3	31.7	57.9	64.8
4	Gagan	60.6	56.1	72.9	70.1	56.3	63.2	52.2	61.6	63.9	59.7	59.4	53.9	55.2	33.3	54.2	61.2
5	IMHBG-2016-6	64.4	58.9	64.6	72.2	57.6	67.4	56.7	63.1	63.9	63.2	60.6	67.8	63.5	35.0	59.0	65.2
6	BLH 112	61.7	62.2	74.3	66.7	54.2	66.0	51.1	62.3	63.9	53.5	63.9	66.1	40.6	35.0	53.8	63.5
7	WH-2002	62.8	57.2	76.4	64.6	55.6	65.3	52.2	62.0	63.9	62.5	61.7	57.2	69.8	27.8	57.1	63.4
8	DH-291	63.9	60.0	75.7	66.7	56.3	66.0	50.0	62.6	63.9	61.1	65.6	60.6	56.3	27.8	55.9	63.0
9	OMH 14-30(CAH 1514)	61.7	59.4	74.3	67.4	55.6	66.0	52.2	62.4	63.9	61.1	62.2	56.7	55.2	28.3	54.6	64.5
10	MM9222	63.3	59.4	66.7	65.3	56.9	66.0	50.0	61.1	63.9	57.6	61.1	61.7	49.0	36.1	54.9	61.9
11	WH-1003	63.9	59.4	61.1	68.1	56.3	65.3	51.7	60.8	63.9	63.2	64.4	62.8	53.1	30.0	56.2	63.4
12	FCH-11267	63.9	63.3	78.5	66.7	55.6	65.3	52.2	63.6	63.9	61.1	65.6	61.7	62.5	32.2	57.8	63.9
13	DH-303	65.0	66.1	70.8	74.3	55.6	65.3	50.0	63.9	63.9	58.3	63.9	58.3	56.3	36.1	56.1	63.5
14	BLH 111	65.6	64.4	80.6	69.4	54.2	63.9	53.3	64.5	63.9	60.4	59.4	66.1	45.8	31.7	54.6	64.4
15	IQ8712	60.0	55.6	75.7	68.8	56.9	63.9	55.6	62.3	63.9	56.9	65.6	65.0	71.9	36.7	60.0	64.8
16	OMH 14-18(CAH 1519)	63.9	62.8	75.0	70.8	59.0	66.0	51.7	64.2	63.2	59.0	64.4	65.0	66.7	37.2	59.3	64.5
17	KMH-14-37	63.9	59.4	71.5	70.1	54.2	63.9	53.9	62.4	63.9	59.7	65.6	58.3	70.8	27.8	57.7	63.7
18	IQ8627	65.6	63.3	77.1	68.8	54.9	64.6	53.3	63.9	63.2	61.8	66.7	61.7	79.2	34.4	61.2	65.8
19	GH-150114(CAH1414)	61.1	64.4	75.0	64.6	56.3	65.3	55.6	63.2	63.9	63.9	64.4	62.8	76.0	32.8	60.6	68.4
20	VaMH 14020	61.1	60.0	68.8	70.1	53.5	65.3	53.3	61.7	63.9	61.1	64.4	56.1	62.5	27.8	56.0	65.8
21	GH-150125(CAH1525)	63.3	64.4	63.2	75.7	58.3	66.0	53.9	63.6	63.9	56.9	65.0	60.6	76.0	26.7	58.2	68.2
22	UDMH-129	62.2	61.7	71.5	70.8	58.3	64.6	52.8	63.1	63.9	59.7	61.7	60.0	74.0	37.2	59.4	67.8
23	IQ8319	65.6	58.3	77.8	66.7	59.0	66.0	52.2	63.7	63.9	62.5	62.8	62.8	61.5	32.8	57.7	67.6
24	IMHBG-2016-4	59.4	62.2	74.3	65.3	58.3	65.3	50.6	62.2	63.9	59.0	64.4	61.1	70.8	36.7	59.3	66.5
25	UDMH-128	65.6	62.8	76.4	66.0	56.3	64.6	52.2	63.4	63.9	58.3	66.7	55.0	67.7	28.3	56.7	67.7
26	GOLD-1155	56.1	52.2	70.1	71.5	56.9	65.3	47.2	59.9	63.9	59.0	58.3	58.3	71.9	28.9	56.7	65.8
27	BLH 113	63.9	62.2	69.4	68.8	53.5	63.2	51.1	61.7	63.9	57.6	65.0	58.3	69.8	26.7	56.9	66.5
28	IMHBG-2016-2	62.2	58.3	73.6	70.8	55.6	65.3	51.7	62.5	63.9	64.6	66.7	62.2	51.0	37.2	57.6	67.3

TABLE No. 3 (Contd.)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
29	IMHBG-2016-5	54.4	62.2	82.6	72.9	54.9	66.0	52.8	63.7	63.9	56.9	63.9	63.3	61.5	26.7	56.0	67.5
30	DH-302	63.9	57.2	75.7	70.1	56.9	64.6	50.0	62.6	63.9	57.6	60.6	55.0	72.9	36.1	57.7	67.1
31	WH-2006	46.7	43.9	64.6	65.3	38.9	65.3	51.7	53.8	63.2	59.0	58.3	56.7	31.3	21.7	48.4	60.4
32	IQ7802	63.3	63.3	78.5	66.7	57.6	66.0	59.4	65.0	63.9	61.1	63.3	63.9	72.9	36.1	60.2	69.4
33	IMHBG-2016-1	62.2	63.9	75.0	66.7	56.9	66.0	53.3	63.4	63.9	64.6	65.0	60.0	65.6	35.6	59.1	67.4
34	IIMRNH 2016-1	63.9	63.9	73.6	70.1	54.9	65.3	51.1	63.3	63.9	62.5	61.1	61.7	64.6	32.2	57.7	66.6
35	Kranthi	63.9	51.7	70.1	68.1	55.6	66.7	51.7	61.1	63.9	59.7	65.0	59.4	61.5	26.7	56.0	65.3
36	GH-150141(CAH1441)	63.9	61.7	76.4	63.9	57.6	66.0	53.9	63.3	63.9	59.0	63.9	62.2	53.1	37.2	56.6	67.4
37	HM-9 (Filler)	60.6	63.3	70.1	66.0	48.6	65.3	48.9	60.4	63.2	60.4	66.1	58.3	70.8	28.3	57.9	64.5
	CHECKS																
38	DHM 121(C)	58.9	62.2	73.6	71.5	56.3	66.7	52.8	63.1	63.9	60.4	63.3	60.0	57.3	25.0	55.0	65.9
39	CMH 08-292(C)	63.9	63.3	76.4	72.2	58.3	66.0	57.2	65.3	63.9	63.2	65.0	64.4	54.2	33.3	57.3	68.3
40	BIO 9544(C)	61.7	57.2	72.2	74.3	56.9	66.0	55.6	63.4	63.9	59.7	66.1	66.7	55.2	30.6	57.0	67.8
	Loc. Mean	**62.2**	**60.2**	**73.4**	**69.0**	**55.5**	**65.4**	**52.7**	**62.6**	**63.8**	**60.1**	**63.7**	**61.0**	**61.7**	**31.7**	**57.0**	**65.4**
	C.D. (5%)	7.50	5.65	11.22	8.22	5.36	2.69	5.46	3.20	1.78	9.17	6.15	5.59	8.84	9.41	5.71	4.78
	C.V. (%)	7.42	5.78	9.41	7.34	5.94	2.53	6.37	4.86	1.72	9.39	5.93	5.64	7.09	18.29	8.80	13.68
	F (Prob)	0.02	0.00	0.10	0.47	0.00	0.51	0.08	0.00	1.00	0.95	0.27	0.00	0.00	0.03	0.09	0.01

TABLE No. 3 (Contd.)

		DAYS TO 50% POLLEN SHED				NHZ ZN 1					NWPZ ZN 2							NEPZ ZN 3
S.No.	PEDIGREE	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	KMH-14-73	55.0	53.0	44.7	49.0	50.4	45.0	45.7	51.7	48.3	47.7	56.0	47.0	53.5	44.3	49.3	46.0	49.4
2	JKMH 4157	61.0	57.0	52.0	53.3	55.8	48.7	49.0	52.7	51.3	50.4	53.0	48.0	55.5	49.0	52.7	50.0	51.4
3	JKMH 1414	67.0	58.0	54.7	53.3	58.3	54.3	50.3	53.3	52.3	52.6	59.3	49.7	55.5	50.0	51.7	52.7	53.1
4	Gagan	58.3	53.0	47.0	48.0	51.6	48.0	49.3	53.0	50.0	50.1	56.3	48.0	55.0	47.0	45.3	47.0	49.8
5	IMHBG-2016-6	64.7	58.0	55.3	56.7	58.7	54.3	51.7	55.0	56.0	54.3	60.3	49.7	56.5	50.7	56.7	53.0	54.5
6	BLH 112	56.0	55.7	47.3	51.7	52.7	46.7	44.7	52.7	49.7	48.4	53.7	46.0	53.5	46.3	52.3	47.0	49.8
7	WH-2002	52.7	51.0	45.0	44.7	48.3	46.3	45.3	49.7	45.7	46.8	54.0	46.0	49.5	45.0	46.7	45.0	47.7
8	DH-291	60.3	55.7	49.3	48.0	53.3	49.7	47.7	53.3	49.3	50.0	54.3	48.0	55.0	46.3	52.7	46.7	50.5
9	OMH 14-30(CAH 1514)	61.7	55.3	52.3	54.0	55.8	52.7	52.0	53.0	52.0	52.4	55.7	49.0	56.5	50.0	56.0	53.0	53.4
10	MM9222	64.3	57.3	52.3	52.3	56.6	52.7	51.0	54.3	51.3	52.3	56.3	47.0	54.0	50.0	53.3	50.7	51.9
11	WH-1003	55.7	53.0	47.3	52.3	52.1	47.7	47.7	54.3	49.7	49.8	57.0	48.0	53.5	47.7	52.7	47.7	51.1
12	FCH-11267	64.0	57.3	54.0	57.0	58.1	54.3	52.0	52.3	54.3	53.3	58.0	50.0	56.0	51.0	58.0	53.3	54.4
13	DH-303	64.3	58.0	54.0	52.7	57.3	54.3	53.0	51.3	51.3	52.5	57.7	48.0	54.0	49.3	52.7	49.0	51.8
14	BLH 111	58.7	57.7	49.7	52.0	54.5	49.0	51.7	50.3	50.7	50.4	56.7	48.0	54.5	48.7	52.7	47.3	51.3
15	IQ8712	67.3	57.3	57.3	52.7	58.7	56.0	52.0	50.0	57.0	53.8	54.3	47.0	56.5	55.0	58.3	53.0	54.0
16	OMH 14-18(CAH 1519)	62.0	56.0	51.3	51.7	55.3	53.3	51.7	50.0	54.3	52.3	58.0	47.0	52.0	50.0	52.7	51.7	51.9
17	KMH-14-37	54.0	52.3	45.7	43.0	48.8	45.0	44.7	55.0	46.7	47.8	54.3	47.0	49.0	45.3	44.7	45.3	47.6
18	IQ8627	63.0	57.3	54.0	54.0	57.1	53.3	52.3	55.7	56.0	54.3	56.7	49.0	58.5	51.3	52.7	52.0	53.4
19	GH-150114(CAH1414)	65.0	56.0	53.7	53.7	57.1	54.0	51.7	46.7	57.0	52.3	60.0	49.0	57.5	51.7	56.7	49.0	54.0
20	VaMH 14020	66.3	57.0	53.0	51.3	56.9	52.7	50.7	47.0	52.0	50.6	58.7	49.0	56.5	48.7	52.7	49.7	52.5
21	GH-150125(CAH1525)	64.0	57.7	55.7	54.0	57.8	54.3	51.3	49.3	52.3	51.8	57.3	48.0	56.5	50.0	58.7	53.0	53.9
22	UDMH-129	61.3	55.3	51.0	50.0	54.4	50.7	50.7	52.3	50.0	50.9	57.0	48.0	56.5	48.7	50.7	48.0	51.5
23	IQ8319	61.3	56.3	54.3	57.0	57.3	52.0	48.0	47.7	53.3	50.3	58.7	49.0	57.5	50.7	50.7	50.3	52.8
24	IMHBG-2016-4	64.3	57.7	56.0	54.3	58.1	54.3	52.0	45.7	55.7	51.9	53.0	48.0	54.5	52.7	51.3	52.7	52.0
25	UDMH-128	53.0	52.0	46.0	48.7	49.9	43.0	45.7	50.3	47.0	46.5	55.0	46.3	50.5	43.7	47.7	44.7	48.0
26	GOLD-1155	63.7	55.3	51.7	52.7	55.8	50.0	49.0	47.3	52.0	49.6	57.0	48.0	53.5	50.0	50.7	51.7	51.8
27	BLH 113	60.0	55.3	51.0	52.3	54.7	49.0	45.0	48.3	51.7	48.5	57.0	49.0	54.0	49.7	49.3	49.0	51.3
28	IMHBG-2016-2	64.7	58.0	57.0	56.7	59.1	53.7	51.3	51.7	57.0	53.4	60.3	49.7	58.5	51.0	57.7	52.7	55.0

TABLE No. 3 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED BAJA	UDHA	KANG	GOSS	NHZ ZN 1 Mean	LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	NEPZ ZN 3 Mean
29	IMHBG-2016-5	66.0	58.0	53.7	52.3	57.5	51.3	50.0	50.3	51.7	50.8	56.7	48.0	56.0	50.7	51.7	49.0	52.0
30	DH-302	63.7	58.0	53.3	53.0	57.0	52.3	52.3	48.3	51.3	51.1	56.3	49.0	54.5	49.7	54.7	48.0	52.0
31	WH-2006	58.3	53.0	47.3	50.3	52.3	49.7	46.3	51.3	50.7	49.5	51.3	47.0	50.5	48.3	54.7	47.7	49.9
32	IQ7802	64.0	57.0	52.0	53.0	56.5	52.3	52.3	49.7	52.7	51.8	58.7	48.0	57.0	49.7	53.7	51.3	53.1
33	IMHBG-2016-1	66.0	58.0	54.3	52.7	57.8	54.0	51.3	52.0	52.3	52.4	59.7	48.0	57.5	50.3	54.7	52.7	53.8
34	IIMRNH 2016-1	63.3	56.3	53.3	53.3	56.6	51.0	51.0	49.0	52.3	50.8	56.7	47.0	54.0	50.7	53.7	50.7	52.1
35	Kranthi	63.0	56.7	51.7	52.3	55.9	51.3	51.3	49.0	51.3	50.8	56.0	49.0	54.5	49.3	51.3	52.7	52.1
36	GH-150141(CAH1441)	64.0	56.7	53.7	52.3	56.7	53.7	52.0	52.3	54.7	53.2	57.3	49.0	57.5	50.0	50.7	51.3	52.6
37	HM-9 (Filler)	60.0	56.7	47.3	54.7	54.7	48.3	51.0	47.7	50.7	49.4	58.3	50.0	53.5	48.0	57.0	47.0	52.3
	CHECKS																	
38	DHM 121(C)	64.3	56.0	54.0	52.0	56.6	51.0	50.0	47.7	57.0	51.4	58.0	48.0	56.0	48.0	54.7	48.0	52.1
39	CMH 08-292(C)	63.3	56.7	51.3	55.3	56.7	52.0	50.7	50.3	52.3	51.3	56.3	49.0	53.5	51.0	55.7	50.7	52.7
40	BIO 9544(C)	64.0	57.3	56.0	51.7	57.3	54.0	52.3	53.0	57.3	54.2	58.3	49.0	57.0	49.7	54.7	51.0	53.3
	Loc. Mean	**61.8**	**56.1**	**51.8**	**52.3**	**55.5**	**51.2**	**49.9**	**50.9**	**52.2**	**51.0**	**56.7**	**48.2**	**54.9**	**49.2**	**52.9**	**49.8**	**51.9**
	C.D. (5%)	2.21	0.67	1.94	3.18	2.30	2.22	0.83	1.86	2.02	3.15	4.44	1.48	1.41	1.95	1.91	2.01	1.94
	C.V. (%)	2.20	0.73	2.30	3.75	2.96	2.68	1.02	2.25	2.39	4.40	4.82	1.89	1.27	2.44	2.22	2.48	3.28
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 3 (Contd.)

		DAYS TO 50% POLLEN SHED							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	KMH-14-73	53.0	53.7	61.0	48.3	43.3	45.3	54.3	51.3	53.7	51.7	58.0	48.7	49.0	50.3	51.9	50.3
2	JKMH 4157	60.3	54.0	63.0	53.0	49.0	49.0	56.3	55.0	53.0	51.7	58.3	50.7	56.0	55.3	54.2	53.4
3	JKMH 1414	61.3	57.0	60.7	53.3	51.3	52.0	58.0	56.2	58.7	50.3	60.3	54.7	54.5	59.7	56.4	55.3
4	Gagan	56.0	53.7	61.0	50.3	47.3	48.7	55.0	53.1	53.3	51.7	58.7	47.7	53.0	51.7	52.7	51.6
5	IMHBG-2016-6	59.7	53.3	62.3	54.0	49.0	50.3	58.0	55.2	60.3	51.7	59.3	55.3	52.5	58.7	56.3	55.7
6	BLH 112	56.3	53.7	56.0	50.7	47.7	48.7	55.0	52.6	53.7	49.0	57.0	48.7	53.0	53.7	52.5	51.3
7	WH-2002	53.0	50.3	56.7	46.7	43.3	44.3	48.7	49.0	53.3	51.7	57.0	46.7	46.5	47.3	50.4	48.6
8	DH-291	57.7	55.0	59.3	50.0	49.0	48.3	54.3	53.4	53.0	51.0	57.7	50.7	53.0	53.7	53.2	52.2
9	OMH 14-30(CAH 1514)	58.7	52.3	61.3	52.0	49.7	50.3	58.7	54.7	53.3	51.3	58.3	51.7	52.5	56.0	53.9	54.0
10	MM9222	60.7	52.7	62.3	51.0	49.7	49.7	54.7	54.4	54.3	52.0	59.3	50.7	54.0	56.3	54.4	53.9
11	WH-1003	56.7	53.3	59.3	49.0	47.3	48.3	55.0	52.7	54.0	51.3	58.3	48.7	47.5	51.0	51.8	51.6
12	FCH-11267	61.0	57.3	61.0	54.3	50.3	52.7	59.3	56.6	62.0	51.3	60.0	55.7	50.0	60.3	56.6	55.8
13	DH-303	58.0	52.7	62.0	53.0	50.7	49.3	55.3	54.4	60.0	50.7	57.7	52.7	53.5	55.0	54.9	54.1
14	BLH 111	59.0	54.3	63.0	51.7	49.3	50.0	56.3	54.8	60.0	50.7	58.3	50.7	52.5	57.0	54.9	53.3
15	IQ8712	62.0	55.0	63.0	53.7	51.7	52.7	58.3	56.6	58.7	51.3	60.3	55.7	54.5	61.0	56.9	56.0
16	OMH 14-18(CAH 1519)	57.7	52.3	62.0	53.3	50.0	50.3	55.7	54.5	53.3	50.0	58.7	55.7	52.0	55.0	54.1	53.6
17	KMH-14-37	53.3	51.0	58.7	47.3	43.7	45.7	53.7	50.5	52.7	51.0	57.3	46.7	47.0	50.0	50.8	49.3
18	IQ8627	58.7	51.7	62.0	53.7	51.0	51.0	56.3	54.9	53.3	51.0	59.7	54.7	56.0	57.0	55.3	54.9
19	GH-150114(CAH1414)	61.0	56.0	63.3	54.3	50.0	51.3	59.3	56.5	60.7	51.0	61.3	53.7	54.5	57.0	56.4	55.4
20	VaMH 14020	60.0	53.3	60.0	51.3	50.3	50.3	58.0	54.8	57.7	50.7	59.7	52.7	54.0	57.3	55.3	54.1
21	GH-150125(CAH1525)	58.3	54.0	61.0	53.7	50.0	50.7	58.0	55.1	54.7	50.3	58.3	53.7	55.5	57.7	55.0	54.7
22	UDMH-129	58.3	53.3	60.3	51.3	48.7	49.3	55.3	53.8	60.0	50.3	57.7	50.7	54.0	54.7	54.6	53.1
23	IQ8319	60.7	57.3	62.7	52.0	49.7	50.3	57.7	55.8	55.0	51.3	59.0	53.7	55.0	55.7	54.9	54.3
24	IMHBG-2016-4	60.3	54.3	60.7	54.0	49.3	51.7	59.0	55.6	59.7	51.3	59.7	55.7	51.5	56.7	55.8	54.7
25	UDMH-128	52.3	51.7	56.7	48.0	43.7	45.7	52.0	50.0	52.0	52.0	57.3	45.7	52.0	51.7	51.8	49.4
26	GOLD-1155	58.0	53.0	59.7	51.3	48.0	48.7	55.7	53.5	53.0	51.0	58.3	55.7	51.5	57.7	54.5	53.1
27	BLH 113	59.0	53.0	61.7	51.0	47.7	49.0	57.3	54.1	55.0	50.7	59.7	50.7	50.0	55.7	53.6	52.6
28	IMHBG-2016-2	60.7	52.3	62.0	54.0	50.7	51.7	58.0	55.6	59.3	51.3	58.7	53.7	55.0	58.7	56.1	55.8

TABLE No. 3 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED							PZ ZN 4 Mean							CWZ ZN 5 Mean	OV'L Mean
		HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU		UDAI	BANS	CHHI	AMBI	GODH	JHAB		
29	IMHBG-2016-5	58.7	53.0	62.7	52.0	49.0	50.3	56.0	54.5	53.7	50.0	59.7	52.7	53.0	58.3	54.6	53.9
30	DH-302	58.3	52.0	62.7	51.0	50.0	48.7	55.0	54.0	53.3	50.3	57.3	50.7	55.5	54.0	53.5	53.5
31	WH-2006	53.3	51.3	58.3	49.3	46.0	48.3	54.0	51.5	53.7	51.7	57.0	48.7	55.0	51.7	52.9	51.3
32	IQ7802	57.3	53.3	61.3	51.0	49.0	49.3	54.7	53.7	59.7	51.0	59.0	50.7	53.0	57.0	55.1	54.0
33	IMHBG-2016-1	57.7	54.7	62.3	51.0	51.0	51.3	59.7	55.4	54.3	50.0	58.3	53.7	55.5	58.3	55.0	54.9
34	IIMRNH 2016-1	59.7	54.7	62.0	52.7	49.3	49.3	56.0	54.8	55.3	50.7	58.7	52.7	50.5	55.7	53.9	53.7
35	Kranthi	57.7	57.0	62.7	50.0	49.0	49.0	55.7	54.4	54.7	50.0	58.3	52.7	52.0	57.3	54.2	53.5
36	GH-150141(CAH1441)	59.7	56.0	61.0	53.3	52.0	53.7	57.3	56.1	56.0	51.7	60.3	54.7	56.0	56.0	55.8	54.9
37	HM-9 (Filler)	57.3	53.7	59.3	50.3	48.0	48.7	55.7	53.3	59.7	51.7	58.0	50.7	55.0	53.3	54.7	53.0
	CHECKS																
38	DHM 121(C)	62.3	54.3	62.7	49.7	50.0	49.3	57.0	55.0	54.0	51.0	60.7	52.7	55.0	55.3	54.8	54.0
39	CMH 08-292(C)	56.3	54.0	61.0	51.3	49.0	48.3	55.0	53.6	54.0	49.7	58.3	52.7	56.5	56.3	54.6	53.7
40	BIO 9544(C)	59.0	57.7	60.7	51.7	49.3	49.3	57.0	55.0	59.3	51.7	59.3	54.7	52.5	58.0	55.9	55.0
	Loc. Mean	**58.2**	**53.8**	**61.0**	**51.5**	**48.8**	**49.5**	**56.2**	**54.1**	**55.9**	**51.0**	**58.7**	**52.0**	**53.0**	**55.6**	**54.3**	**53.4**
	C.D. (5%)	2.34	1.48	3.07	1.85	1.19	0.89	2.54	1.24	1.04	1.90	1.41	0.47	5.31	1.04	2.19	0.92
	C.V. (%)	2.47	1.69	3.10	2.21	1.50	1.11	2.79	2.17	1.15	2.30	1.47	0.55	4.96	1.15	3.54	3.22
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.03	0.00	0.00	0.00

TABLE No. 3 (Contd.)

		DAYS TO 50% SILKING				NHZ					NWPZ							NEPZ
						ZN 1					ZN 2							ZN 3
S.No.	PEDIGREE	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	KMH-14-73	57.0	57.0	47.7	55.7	54.3	46.7	47.7	55.0	51.3	50.2	57.7	50.0	57.0	49.0	51.3	51.0	52.7
2	JKMH 4157	63.0	61.0	55.0	59.7	59.7	50.3	51.0	56.3	54.0	52.9	55.3	51.0	59.5	52.7	54.7	53.3	54.4
3	JKMH 1414	69.3	61.7	59.0	61.0	62.8	55.3	52.3	56.7	55.3	54.9	62.0	53.0	60.0	54.0	53.7	57.0	56.6
4	Gagan	60.7	57.0	50.0	56.3	56.0	49.3	51.3	57.3	53.3	52.8	58.0	52.0	58.5	51.7	47.3	51.7	53.2
5	IMHBG-2016-6	66.7	61.7	59.3	63.7	62.8	54.7	53.7	58.7	58.7	56.4	62.0	53.0	60.5	54.3	58.7	55.7	57.4
6	BLH 112	58.3	59.7	50.3	59.0	56.8	47.3	47.7	56.0	53.3	51.1	55.7	49.0	56.5	49.7	54.3	51.0	52.7
7	WH-2002	55.3	55.0	48.7	52.3	52.8	47.7	47.3	53.3	49.0	49.3	56.0	49.3	53.5	48.3	48.7	50.0	51.0
8	DH-291	62.3	59.3	53.3	56.3	57.8	51.0	49.7	56.0	51.3	52.0	56.3	51.0	58.5	51.3	54.7	52.3	54.0
9	OMH 14-30(CAH 1514)	63.7	59.0	55.7	61.0	59.8	53.0	54.0	56.7	55.0	54.7	57.7	52.0	60.5	54.0	58.0	57.0	56.5
10	MM9222	66.3	61.7	55.7	57.3	60.3	52.7	53.0	57.7	54.7	54.5	58.3	50.0	57.5	53.3	55.3	53.7	54.7
11	WH-1003	58.3	57.0	51.3	59.7	56.6	50.0	49.7	58.0	53.3	52.8	59.3	51.0	58.0	52.7	54.7	53.0	54.8
12	FCH-11267	66.0	60.3	56.7	63.7	61.7	54.3	54.0	55.7	58.0	55.5	60.0	53.0	59.0	55.0	59.7	57.0	57.3
13	DH-303	66.3	61.3	58.3	59.7	61.4	56.7	55.0	54.3	54.3	55.1	59.7	51.0	57.5	53.7	54.7	55.3	55.3
14	BLH 111	60.7	61.3	54.0	58.7	58.7	50.3	53.7	53.3	53.7	52.8	59.0	51.3	57.5	53.0	54.7	52.3	54.6
15	IQ8712	69.3	61.0	60.3	60.3	62.8	56.7	54.0	54.0	59.3	56.0	56.7	50.0	60.0	60.0	60.3	56.7	57.3
16	OMH 14-18(CAH 1519)	64.0	60.0	55.3	57.3	59.2	53.7	53.7	54.0	57.3	54.7	59.7	50.0	56.5	53.3	54.7	54.7	54.8
17	KMH-14-37	56.0	55.3	49.7	49.7	52.7	46.3	47.7	58.3	50.0	50.6	56.3	50.0	54.0	48.3	46.7	49.0	50.7
18	IQ8627	65.0	61.0	57.3	61.7	61.3	54.0	54.3	59.7	58.7	56.7	58.7	52.0	62.5	54.0	54.7	55.7	56.3
19	GH-150114(CAH1414)	67.3	59.7	58.7	61.3	61.8	54.7	53.7	50.3	59.3	54.5	63.0	52.3	61.0	57.3	58.7	55.7	58.0
20	VaMH 14020	68.3	61.0	56.7	58.0	61.0	53.7	53.7	51.0	55.7	53.5	61.3	52.0	59.5	54.0	54.7	55.7	56.2
21	GH-150125(CAH1525)	66.0	61.3	59.0	61.7	62.0	54.7	53.3	52.3	53.7	53.5	59.3	51.3	60.5	53.0	60.7	56.0	56.8
22	UDMH-129	63.3	58.7	54.7	57.3	58.5	51.3	52.7	56.3	53.7	53.5	59.7	51.0	60.0	52.7	52.7	52.7	54.8
23	IQ8319	63.3	59.7	59.0	61.0	60.8	52.7	52.0	50.7	56.3	52.9	61.0	52.0	61.5	54.7	53.3	55.7	56.4
24	IMHBG-2016-4	66.3	60.7	59.3	60.7	61.8	55.7	54.0	49.7	58.3	54.4	56.0	51.3	59.5	56.7	53.3	55.7	55.4
25	UDMH-128	55.0	56.0	48.3	56.3	53.9	45.3	47.7	53.7	49.7	49.1	57.0	49.3	54.5	47.3	49.7	48.7	51.1
26	GOLD-1155	65.7	60.0	54.7	58.7	59.8	51.7	51.0	50.7	55.3	52.2	59.0	51.0	57.0	54.0	52.7	55.7	54.9
27	BLH 113	62.0	59.3	54.7	59.7	58.9	50.7	48.0	53.0	54.7	51.6	59.3	52.0	57.5	54.3	51.3	54.3	54.8
28	IMHBG-2016-2	66.7	62.0	60.7	64.3	63.4	54.3	53.3	55.3	59.3	55.6	62.3	52.7	62.0	54.0	59.7	56.0	57.8

TABLE No. 3 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% SILKING				NHZ ZN 1					NWPZ ZN 2							NEPZ ZN 3
		BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
29	IMHBG-2016-5	68.3	61.7	57.3	58.0	61.3	52.0	52.0	54.0	55.0	53.3	58.7	52.0	60.0	55.3	53.7	55.7	55.9
30	DH-302	65.7	61.3	57.0	59.3	60.8	53.7	54.3	54.0	54.7	54.2	59.0	53.0	59.0	53.3	56.7	54.3	55.9
31	WH-2006	60.7	57.3	50.7	58.3	56.8	51.0	48.3	54.7	54.0	52.0	53.3	50.0	54.5	53.3	56.7	55.3	53.9
32	IQ7802	66.0	61.0	55.0	60.0	60.5	53.0	54.3	53.3	55.7	54.1	61.7	51.0	60.5	53.7	55.7	53.7	56.0
33	IMHBG-2016-1	68.3	61.7	58.3	59.7	62.0	55.3	53.3	55.7	54.0	54.6	61.7	51.0	61.0	54.3	56.7	56.3	56.8
34	IIMRNH 2016-1	65.3	60.0	56.7	60.3	60.6	51.3	53.0	53.3	55.3	53.3	58.7	50.0	57.5	54.7	55.7	53.7	55.0
35	Kranthi	65.0	60.7	55.0	58.0	59.7	52.3	53.3	53.3	54.7	53.4	58.0	52.3	57.5	54.0	53.3	55.7	55.1
36	GH-150141(CAH1441)	66.0	60.7	57.0	59.7	60.8	54.7	54.0	55.7	57.3	55.4	60.0	52.0	62.0	54.3	52.7	56.7	56.3
37	HM-9 (Filler)	62.0	60.7	51.0	62.0	58.9	49.7	53.0	52.7	53.7	52.3	60.3	53.0	56.5	53.0	59.0	52.7	55.8
	CHECKS																	
38	DHM 121(C)	66.3	60.0	58.0	60.3	61.2	52.3	53.0	51.7	59.3	54.1	60.3	51.0	58.0	52.7	56.7	54.0	55.4
39	CMH 08-292(C)	65.3	60.3	54.3	62.3	60.6	52.7	52.7	54.3	55.3	53.8	58.3	52.0	58.0	55.0	57.7	54.7	55.9
40	BIO 9544(C)	66.0	61.3	59.3	58.0	61.2	54.3	54.3	57.0	59.7	56.3	60.7	52.0	61.5	54.7	56.7	56.0	56.9
	Loc. Mean	**63.9**	**59.9**	**55.3**	**59.2**	**59.6**	**52.2**	**52.1**	**54.6**	**55.1**	**53.5**	**58.9**	**51.3**	**58.7**	**53.4**	**54.9**	**54.3**	**55.2**
	C.D. (5%)	2.25	0.94	1.88	3.48	2.42	2.02	0.83	1.51	1.68	2.94	4.66	1.52	1.70	2.52	1.94	2.02	1.88
	C.V. (%)	2.17	0.96	2.09	3.62	2.90	2.38	0.98	1.70	1.87	3.92	4.87	1.82	1.43	2.91	2.18	2.29	2.99
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 3 (Contd.)

		DAYS TO 50% SILKING							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	KMH-14-73	55.3	55.7	61.7	51.3	46.3	49.3	55.3	53.6	55.7	54.7	58.3	51.3	51.0	53.0	54.0	53.1
2	JKMH 4157	62.0	55.7	63.0	55.3	52.0	51.3	57.3	56.7	55.0	54.7	59.3	53.7	57.5	58.0	56.4	56.0
3	JKMH 1414	63.3	58.7	62.0	54.7	55.3	54.0	59.0	58.1	60.7	53.3	61.3	58.0	56.5	62.3	58.7	58.1
4	Gagan	59.0	55.7	61.3	53.3	50.3	51.3	56.0	55.3	55.3	54.7	59.0	50.7	55.0	54.3	54.8	54.5
5	IMHBG-2016-6	61.7	55.7	63.3	55.0	52.3	53.7	59.0	57.2	62.3	54.7	59.7	58.7	54.5	61.7	58.6	58.3
6	BLH 112	57.7	55.7	57.3	53.0	50.7	50.7	56.0	54.4	55.7	52.0	57.3	51.7	55.0	56.3	54.7	54.0
7	WH-2002	54.7	52.3	58.0	49.3	46.3	47.3	49.7	51.1	55.3	54.7	58.0	49.7	48.5	50.7	52.8	51.4
8	DH-291	59.3	57.0	59.3	53.3	52.3	50.7	55.3	55.3	55.0	54.0	58.3	53.3	55.0	56.7	55.4	54.9
9	OMH 14-30(CAH 1514)	60.7	54.0	62.7	56.3	52.7	53.3	59.7	57.0	55.3	54.3	58.7	54.7	55.0	58.7	56.1	56.8
10	MM9222	62.7	54.7	63.0	54.0	52.7	53.7	55.7	56.6	56.3	55.0	59.7	54.0	56.0	59.3	56.7	56.4
11	WH-1003	58.7	55.0	59.3	51.3	50.3	51.0	56.0	54.5	56.0	54.3	58.7	51.7	49.5	54.0	54.0	54.5
12	FCH-11267	63.0	58.7	62.0	56.3	53.3	55.3	60.3	58.4	64.0	54.3	60.7	58.3	52.0	63.0	58.7	58.3
13	DH-303	59.7	54.3	63.7	55.7	54.0	51.3	56.3	56.4	61.7	53.7	58.7	55.7	55.5	57.7	57.1	56.9
14	BLH 111	59.7	56.3	63.0	55.7	53.0	52.0	57.3	56.7	61.7	53.7	59.3	54.0	54.5	60.0	57.2	56.1
15	IQ8712	64.0	57.3	63.3	56.0	55.0	55.3	59.3	58.6	60.7	54.3	61.3	58.3	56.5	63.3	59.1	58.6
16	OMH 14-18(CAH 1519)	59.7	54.3	62.7	56.0	53.3	53.3	56.7	56.6	55.3	53.0	59.0	58.7	54.0	57.3	56.2	56.2
17	KMH-14-37	55.3	53.0	61.0	50.3	46.7	48.7	54.7	52.8	54.7	54.0	57.7	49.7	49.0	53.3	53.1	52.0
18	IQ8627	61.3	54.0	63.7	56.3	54.3	53.0	57.3	57.1	55.3	54.0	60.3	57.7	58.5	59.7	57.6	57.6
19	GH-150114(CAH1414)	62.7	57.7	64.3	57.0	52.7	53.7	60.3	58.3	62.7	54.0	62.3	57.0	56.5	60.0	58.8	58.3
20	VaMH 14020	61.3	55.3	62.0	56.0	53.0	53.7	59.0	57.2	58.7	53.7	60.7	56.0	55.5	59.7	57.4	57.0
21	GH-150125(CAH1525)	60.3	56.3	63.3	56.3	53.3	53.3	59.0	57.4	56.7	53.3	59.3	57.0	57.5	60.3	57.4	57.4
22	UDMH-129	60.3	55.3	61.7	54.0	51.3	51.7	56.3	55.8	61.7	53.3	58.3	53.3	56.0	57.7	56.7	55.8
23	IQ8319	62.3	59.0	64.0	54.3	52.7	53.3	58.7	57.8	57.0	54.3	60.0	56.7	56.5	59.0	57.3	57.1
24	IMHBG-2016-4	62.3	56.0	62.3	56.0	52.3	54.0	60.0	57.6	61.7	54.3	60.7	59.0	54.0	59.7	58.2	57.4
25	UDMH-128	54.0	53.7	57.7	49.7	46.7	49.3	53.0	52.0	54.0	55.0	58.0	48.7	54.0	54.7	54.1	52.1
26	GOLD-1155	60.0	55.0	60.3	53.7	51.0	51.0	56.7	55.4	55.0	54.0	59.3	59.3	53.5	61.0	57.0	55.8
27	BLH 113	61.0	55.0	64.3	55.7	50.7	51.7	58.3	56.7	57.0	53.7	60.7	53.7	52.0	59.0	56.0	55.7
28	IMHBG-2016-2	62.0	54.3	62.7	55.7	53.3	53.7	59.0	57.2	60.3	54.3	59.0	57.0	57.0	61.7	58.2	58.2

TABLE No. 3 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% SILKING HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
29	IMHBG-2016-5	60.7	54.7	63.0	56.0	51.7	52.7	57.0	56.5	55.7	53.0	60.7	56.0	55.0	61.3	56.9	56.7
30	DH-302	60.3	53.3	63.0	55.3	53.3	51.7	56.0	56.1	55.3	53.3	57.7	54.0	56.5	57.7	55.8	56.4
31	WH-2006	55.0	53.3	59.7	54.3	49.0	51.0	55.0	53.9	55.7	54.7	57.7	51.7	57.0	55.3	55.3	54.4
32	IQ7802	59.3	55.3	62.7	52.3	51.3	51.7	55.7	55.5	61.3	54.0	59.3	53.7	55.0	60.0	57.2	56.5
33	IMHBG-2016-1	60.0	56.3	62.3	53.7	54.0	54.3	60.7	57.3	56.3	53.0	59.3	57.0	57.5	61.3	57.4	57.5
34	IIMRNH 2016-1	61.7	56.3	63.7	54.7	52.0	52.3	57.0	56.8	57.3	53.7	59.7	55.7	52.5	59.0	56.3	56.3
35	Kranthi	59.3	59.3	63.0	53.7	53.0	51.3	56.7	56.6	56.7	53.0	59.3	56.0	54.0	60.0	56.5	56.2
36	GH-150141(CAH1441)	61.7	58.0	63.3	56.7	56.3	56.3	58.3	58.7	57.3	54.7	61.3	57.3	58.0	59.3	58.0	57.8
37	HM-9 (Filler)	59.0	56.0	60.0	52.3	51.7	50.7	56.7	55.2	60.7	54.7	59.0	53.3	57.0	56.0	56.8	55.8
	CHECKS																
38	DHM 121(C)	64.3	56.0	63.3	53.7	53.0	52.3	58.0	57.2	55.3	54.0	61.7	56.0	57.0	58.7	57.1	56.9
39	CMH 08-292(C)	58.3	56.7	63.3	53.3	51.7	51.3	56.0	55.8	55.7	52.7	58.7	55.3	58.5	59.3	56.7	56.4
40	BIO 9544(C)	61.0	59.3	63.3	55.0	52.3	51.3	58.0	57.2	60.3	54.7	60.3	58.0	53.5	60.7	57.9	57.8
	Loc. Mean	**60.1**	**55.8**	**62.1**	**54.3**	**51.9**	**52.2**	**57.2**	**56.2**	**57.7**	**54.0**	**59.5**	**55.0**	**54.9**	**58.5**	**56.6**	**56.2**
	C.D. (5%)	2.44	1.52	2.78	2.19	1.34	0.92	2.54	1.27	1.09	1.90	1.29	0.96	5.40	1.36	2.16	0.91
	C.V. (%)	2.50	1.68	2.75	2.48	1.58	1.08	2.74	2.15	1.16	2.17	1.34	1.07	4.86	1.43	3.35	3.02
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.05	0.00	0.00	0.00

TABLE No. 3 (Contd.)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK				NHZ ZN 1					NWPZ ZN 2							NEPZ ZN 3
		BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	KMH-14-73	94.3	91.7	84.7	82.3	88.3	83.7	82.0	99.0	114.7	94.8	85.7	84.0	96.0	81.7	89.3	84.3	86.8
2	JKMH 4157	98.0	92.3	91.3	85.0	91.7	88.0	83.0	99.7	117.7	97.1	87.7	89.0	99.0	86.0	94.7	92.0	91.4
3	JKMH 1414	106.0	93.3	95.3	83.3	94.5	85.7	84.0	106.3	117.7	98.4	92.0	88.0	102.5	81.0	91.3	89.7	90.8
4	Gagan	99.7	92.3	86.3	80.7	89.8	85.7	84.0	100.3	117.7	96.9	87.0	88.0	98.5	83.3	92.3	86.0	89.2
5	IMHBG-2016-6	100.0	93.7	95.7	86.3	93.9	85.0	82.7	100.7	116.3	96.2	94.3	88.0	101.0	81.3	90.3	89.7	90.8
6	BLH 112	94.0	91.7	86.7	83.3	88.9	82.0	81.7	99.3	118.3	95.3	86.7	87.0	96.5	78.3	87.3	82.3	86.4
7	WH-2002	88.7	91.7	85.0	78.0	85.8	82.0	84.0	97.3	102.3	91.4	86.7	85.0	99.0	76.7	85.7	80.3	85.6
8	DH-291	99.3	92.0	89.7	79.7	90.2	84.0	82.3	98.7	117.0	95.5	87.3	88.0	99.5	77.7	86.3	86.0	87.5
9	OMH 14-30(CAH 1514)	99.0	92.0	92.0	86.7	92.4	87.3	83.0	96.3	117.7	96.1	89.7	89.0	101.5	81.3	93.0	92.7	91.2
10	MM9222	103.0	93.7	92.0	83.0	92.9	89.7	84.3	100.0	118.3	98.1	89.3	89.0	98.5	85.3	90.7	92.7	90.9
11	WH-1003	94.0	91.3	87.0	83.3	88.9	83.0	82.0	96.0	116.3	94.3	85.3	84.7	99.5	78.3	92.7	87.3	88.0
12	FCH-11267	105.0	93.0	93.0	85.3	94.1	89.3	83.7	98.7	118.3	97.5	94.0	89.0	100.0	87.0	92.3	92.3	92.4
13	DH-303	103.7	93.7	95.3	83.0	93.9	89.3	85.3	97.3	117.7	97.4	91.0	89.0	97.5	83.7	87.3	89.0	89.6
14	BLH 111	99.3	92.7	90.3	82.3	91.2	84.7	82.7	99.7	117.7	96.2	87.3	88.0	98.0	85.3	93.3	88.3	90.1
15	IQ8712	106.0	94.7	96.7	86.0	95.8	90.0	85.3	97.7	121.7	98.7	95.0	89.0	99.0	92.7	96.3	95.0	94.5
16	OMH 14-18(CAH 1519)	102.0	92.0	91.7	79.3	91.3	85.0	84.3	99.7	117.0	96.5	90.3	88.0	96.0	84.7	85.3	89.3	88.9
17	KMH-14-37	91.0	92.3	86.0	77.3	86.7	82.0	82.0	101.0	118.3	95.8	84.3	87.0	93.5	76.7	86.3	81.3	84.9
18	IQ8627	102.7	93.7	93.7	85.0	93.8	86.0	82.7	102.7	118.7	97.5	91.0	88.0	101.0	86.0	86.3	92.3	90.8
19	GH-150114(CAH1414)	101.3	92.7	95.0	84.7	93.4	84.3	81.3	103.0	119.0	96.9	88.0	89.0	100.0	85.7	93.7	87.3	90.6
20	VaMH 14020	105.7	92.0	93.0	81.0	92.9	84.7	85.7	96.7	119.0	96.5	91.0	88.0	100.0	84.0	88.3	88.0	89.9
21	GH-150125(CAH1525)	103.0	93.3	95.3	85.0	94.2	90.0	85.0	99.0	118.3	98.1	91.3	89.0	101.5	86.0	91.7	91.7	91.9
22	UDMH-129	101.7	92.7	91.0	80.0	91.3	84.7	82.3	97.3	116.7	95.3	86.3	88.0	99.5	83.0	86.3	83.7	87.8
23	IQ8319	104.0	93.0	96.0	83.7	94.2	88.7	83.7	94.7	117.7	96.2	93.0	89.0	100.5	89.7	94.7	93.7	93.4
24	IMHBG-2016-4	103.7	92.7	95.3	82.3	93.5	87.7	83.3	95.0	115.7	95.4	92.7	89.0	98.5	84.3	95.7	88.7	91.5
25	UDMH-128	93.7	91.0	85.7	82.0	88.1	83.3	82.7	99.0	109.7	93.7	85.0	87.0	94.5	83.7	83.7	83.7	86.3
26	GOLD-1155	100.3	93.7	91.0	80.7	91.4	86.3	81.7	97.7	118.3	96.0	89.7	89.0	98.0	85.3	86.3	89.7	89.7
27	BLH 113	99.7	92.0	91.0	84.3	91.8	85.0	84.3	99.7	117.7	96.7	89.3	88.0	97.5	86.0	96.3	94.0	91.9
28	IMHBG-2016-2	98.3	93.3	97.0	85.7	93.6	84.7	84.3	106.3	117.0	98.1	93.3	88.0	101.0	84.7	94.3	88.7	91.7

TABLE No. 3 (Contd.)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK				NHZ ZN 1					NWPZ ZN 2							NEPZ ZN 3
		BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
29	IMHBG-2016-5	104.7	93.3	93.7	83.0	93.7	83.3	82.7	100.3	116.7	95.8	85.0	89.0	100.5	83.3	89.7	84.3	88.6
30	DH-302	104.7	93.0	93.3	84.0	93.8	90.0	82.7	100.7	118.3	97.9	92.0	88.0	99.5	90.0	90.7	98.0	93.0
31	WH-2006	94.7	92.3	87.0	83.0	89.3	84.0	82.7	99.3	116.0	95.5	87.7	88.0	93.5	82.3	87.7	87.0	87.7
32	IQ7802	101.3	92.7	91.3	83.0	92.1	84.0	84.7	98.7	117.7	96.3	88.7	88.0	100.0	79.7	84.3	85.7	87.7
33	IMHBG-2016-1	101.0	92.7	94.7	84.0	93.1	88.7	82.0	98.7	118.3	96.9	89.7	90.0	100.5	83.7	91.3	89.0	90.7
34	IIMRNH 2016-1	98.0	92.0	93.0	84.0	91.8	84.7	84.0	96.3	117.7	95.7	89.0	88.0	98.5	83.0	92.3	88.7	89.9
35	Kranthi	101.0	92.0	91.3	83.3	91.9	86.7	82.7	96.3	117.3	95.7	87.0	89.0	98.5	86.7	90.3	91.3	90.5
36	GH-150141(CAH1441)	105.0	92.7	93.3	82.0	93.3	89.7	85.7	100.3	117.0	98.2	91.7	90.0	102.5	88.0	85.3	93.0	91.8
37	HM-9 (Filler)	99.0	92.3	87.3	85.7	91.1	85.7	85.0	100.0	117.7	97.1	89.3	89.0	96.5	82.3	91.3	87.7	89.4
	CHECKS																	
38	DHM 121(C)	101.7	93.0	94.3	85.0	93.5	87.0	83.0	98.7	119.0	96.9	92.0	89.0	99.5	85.0	90.3	87.7	90.6
39	CMH 08-292(C)	98.3	91.7	90.7	86.3	91.8	84.3	82.0	96.0	116.7	94.8	87.7	88.0	99.5	85.3	88.3	88.0	89.5
40	BIO 9544(C)	105.7	92.3	95.7	81.7	93.8	87.7	85.3	98.7	121.0	98.2	92.0	89.0	101.0	89.0	92.3	93.3	92.8
	Loc. Mean	**100.3**	**92.6**	**91.7**	**83.1**	**91.9**	**85.9**	**83.4**	**99.1**	**117.1**	**96.4**	**89.4**	**88.2**	**98.9**	**83.9**	**90.2**	**88.8**	**89.9**
	C.D. (5%)	3.53	0.91	1.90	4.46	3.21	2.14	1.04	1.25	3.34	3.08	3.90	1.53	2.13	5.05	1.89	2.67	2.55
	C.V. (%)	2.16	0.60	1.28	3.30	2.49	1.53	0.77	0.78	1.75	2.28	2.69	1.07	1.06	3.70	1.29	1.85	2.49
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 3 (Contd.)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK							PZ ZN 4 Mean							CWZ ZN 5 Mean	OV'L Mean
		HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU		UDAI	BANS	CHHI	AMBI	GODH	JHAB		
1	KMH-14-73	93.3	90.7	100.3	92.0	85.7	90.3	90.7	91.9	85.7	84.7	89.0	88.3	84.0	85.7	86.2	89.4
2	JKMH 4157	101.0	89.3	111.0	98.3	91.3	91.7	95.3	96.9	86.3	85.0	98.7	99.3	85.0	88.3	90.4	93.5
3	JKMH 1414	102.0	93.0	104.0	96.0	94.3	94.7	94.0	96.9	90.7	83.7	94.3	91.0	86.5	92.3	89.8	93.8
4	Gagan	97.7	90.0	102.0	93.3	91.0	91.7	92.7	94.0	87.3	84.3	96.7	88.3	85.5	86.0	88.0	91.4
5	IMHBG-2016-6	99.3	89.7	103.0	94.3	91.3	94.7	92.0	94.9	90.3	84.7	96.0	91.0	84.5	92.0	89.8	92.9
6	BLH 112	96.3	90.0	99.0	91.0	90.0	91.7	90.0	92.6	86.7	82.0	93.0	88.0	86.5	86.3	87.1	89.8
7	WH-2002	95.0	86.7	98.0	87.3	85.7	88.7	85.3	89.5	86.3	84.7	86.3	84.7	80.0	81.7	83.9	87.1
8	DH-291	98.3	91.0	100.7	93.3	91.3	91.7	90.0	93.8	85.3	84.3	93.0	89.0	86.0	89.3	87.8	90.8
9	OMH 14-30(CAH 1514)	100.7	88.7	99.7	94.7	91.7	94.0	94.3	94.8	86.3	84.0	95.3	89.0	86.0	89.0	88.3	92.4
10	MM9222	101.7	89.7	111.3	98.0	92.0	94.7	94.7	97.4	86.3	85.0	99.3	100.7	87.0	88.3	91.1	94.0
11	WH-1003	100.0	90.0	99.0	91.7	89.7	92.3	89.7	93.2	87.7	84.0	90.7	87.7	82.0	86.3	86.4	90.1
12	FCH-11267	101.7	97.3	108.7	97.7	92.7	96.3	97.0	98.8	93.3	84.3	99.3	99.3	84.5	92.7	92.3	95.0
13	DH-303	99.0	89.0	109.3	96.0	94.0	92.7	92.0	96.0	93.7	83.3	94.0	90.3	84.5	87.0	88.8	92.9
14	BLH 111	99.0	90.7	106.0	99.7	92.3	92.7	94.0	96.3	93.7	84.3	97.7	91.3	85.5	88.7	90.2	92.8
15	IQ8712	102.3	94.0	108.7	99.3	94.0	95.7	96.0	98.6	90.7	85.0	102.0	99.7	86.0	89.3	92.1	95.8
16	OMH 14-18(CAH 1519)	97.7	89.0	104.0	95.3	92.7	93.7	93.7	95.1	85.3	82.7	97.3	93.7	83.5	87.7	88.4	91.9
17	KMH-14-37	94.7	88.3	99.7	88.7	85.7	89.7	88.3	90.7	86.3	83.7	87.3	85.0	79.0	85.0	84.4	88.2
18	IQ8627	98.3	89.0	107.0	98.3	93.7	93.7	94.0	96.3	86.7	84.7	96.7	91.0	84.0	88.7	88.6	93.2
19	GH-150114(CAH1414)	101.0	97.0	101.7	95.3	91.7	94.3	93.7	96.4	91.7	84.7	95.3	90.0	86.0	92.7	90.1	93.3
20	VaMH 14020	101.0	91.0	101.3	96.0	92.3	94.3	92.3	95.5	87.7	84.0	97.3	89.7	86.0	89.7	89.1	92.6
21	GH-150125(CAH1525)	98.3	91.3	106.3	96.0	93.0	94.0	94.3	96.2	87.7	83.3	96.3	88.0	86.0	92.3	88.9	93.6
22	UDMH-129	100.0	91.0	104.3	92.7	91.0	92.3	93.0	94.9	91.3	83.3	95.7	89.0	86.5	88.7	89.1	91.6
23	IQ8319	102.3	97.0	107.0	99.0	92.0	93.3	96.3	98.1	86.0	84.0	99.7	99.7	86.0	89.3	90.8	94.6
24	IMHBG-2016-4	101.0	92.0	99.0	93.7	91.3	94.7	90.7	94.6	90.7	84.3	96.3	90.0	85.5	89.0	89.3	92.7
25	UDMH-128	94.3	88.7	100.3	92.7	86.0	90.7	88.7	91.6	84.0	86.0	87.3	88.3	84.0	85.7	85.9	88.9
26	GOLD-1155	100.0	90.7	102.3	94.3	90.3	91.7	93.7	94.7	84.3	84.3	96.7	93.3	84.0	88.3	88.5	91.9
27	BLH 113	101.0	90.3	104.7	97.3	89.7	92.7	93.7	95.6	89.0	83.0	97.7	91.0	82.5	88.3	88.6	92.8
28	IMHBG-2016-2	102.7	90.0	101.7	92.0	92.7	94.3	90.0	94.8	90.7	84.3	97.3	90.7	86.0	89.7	89.8	93.3

TABLE No. 3 (Contd.)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
29	IMHBG-2016-5	100.0	90.3	100.7	93.7	90.7	93.0	89.0	93.9	86.7	83.3	87.0	88.3	85.0	89.3	86.6	91.4
30	DH-302	98.0	89.0	107.7	100.7	92.3	92.3	94.0	96.3	85.7	83.0	97.0	99.7	85.5	89.3	90.0	94.0
31	WH-2006	92.3	89.0	100.7	93.0	88.3	92.3	88.7	92.0	87.7	85.0	89.0	87.3	86.5	85.3	86.8	90.0
32	IQ7802	96.7	91.0	101.3	92.7	90.3	92.3	88.7	93.3	91.7	84.0	94.7	89.3	85.0	90.3	89.2	91.4
33	IMHBG-2016-1	100.0	93.3	100.7	93.3	93.7	95.3	94.7	95.9	87.7	83.0	95.7	89.3	84.5	91.7	88.6	92.9
34	IIMRNH 2016-1	101.0	94.0	103.0	95.0	91.7	92.3	91.0	95.4	88.0	83.7	96.7	89.7	84.5	89.3	88.6	92.2
35	Kranthi	99.0	98.3	105.0	96.3	92.0	91.7	92.3	96.4	86.7	83.0	97.3	90.3	86.0	89.7	88.8	92.6
36	GH-150141(CAH1441)	100.7	99.0	110.3	98.3	95.3	96.7	95.0	99.3	85.7	85.3	98.0	99.7	87.0	88.7	90.7	94.7
37	HM-9 (Filler)	101.7	91.7	100.7	95.0	91.3	91.7	92.0	94.9	91.0	84.7	93.0	89.3	86.0	85.3	88.2	91.9
	CHECKS																
38	DHM 121(C)	102.7	91.3	103.7	92.7	92.0	93.0	92.0	95.3	85.7	84.0	96.7	90.3	86.0	89.7	88.7	92.8
39	CMH 08-292(C)	97.3	95.3	99.7	92.7	91.0	91.7	88.7	93.8	86.3	83.0	96.0	89.7	86.5	88.7	88.4	91.5
40	BIO 9544(C)	100.3	98.3	106.7	97.7	92.0	92.3	94.7	97.4	90.7	84.3	97.3	99.3	85.5	94.0	91.9	94.7
	Loc. Mean	**99.2**	**91.6**	**103.5**	**94.9**	**91.2**	**92.9**	**92.3**	**95.1**	**88.1**	**84.1**	**95.1**	**91.5**	**85.0**	**88.7**	**88.8**	**92.3**
	C.D. (5%)	2.59	2.25	4.42	4.52	1.39	0.83	2.78	2.01	1.11	2.03	1.99	2.81	3.52	2.14	2.81	1.16
	C.V. (%)	1.61	1.51	2.63	2.93	0.94	0.55	1.86	2.00	0.77	1.49	1.29	1.89	2.05	1.48	2.78	2.36
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.02	0.00	0.00	0.00

TABLE No. 3 (Contd.)

		PLANT HEIGHT(cm)				NHZ					NWPZ							NEPZ
						ZN 1					ZN 2							ZN 3
S.No.	PEDIGREE	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	KMH-14-73	181.7	228.0	238.3	119.9	192.0	211.7	260.7	185.7	246.7	226.2	126.7	186.3	170.2	215.0	142.5	196.0	172.8
2	JKMH 4157	213.3	233.7	230.0	135.1	203.0	245.0	247.0	177.7	289.7	239.8	167.3	183.7	189.2	217.5	166.0	220.7	190.7
3	JKMH 1414	216.7	247.2	270.0	139.2	218.3	248.3	252.7	172.7	290.3	241.0	135.3	188.3	188.0	225.0	172.0	224.3	188.8
4	Gagan	191.7	229.3	219.3	127.2	191.9	236.7	236.0	173.7	270.3	229.2	129.7	186.7	193.7	215.0	160.5	190.0	179.3
5	IMHBG-2016-6	230.0	239.3	247.3	152.1	217.2	271.7	265.0	187.7	287.7	253.0	165.0	186.7	192.2	205.0	188.2	234.7	195.3
6	BLH 112	191.7	190.0	224.7	128.7	183.8	231.7	217.0	188.0	257.3	223.5	140.0	187.7	181.5	210.0	162.5	196.3	179.7
7	WH-2002	166.7	229.3	212.3	111.5	180.0	238.3	203.0	179.0	216.3	209.2	130.7	184.3	183.7	172.5	135.4	171.3	163.0
8	DH-291	190.0	177.7	240.0	120.7	182.1	248.3	230.0	185.7	248.0	228.0	110.7	184.3	180.3	172.5	142.5	177.0	161.2
9	OMH 14-30(CAH 1514)	183.3	182.9	235.0	105.7	176.7	231.7	253.7	185.7	260.3	232.8	112.3	187.0	172.1	197.5	139.8	198.0	167.8
10	MM9222	238.3	230.9	250.0	154.5	218.4	251.7	255.7	198.3	288.7	248.6	142.3	184.0	196.4	212.5	175.7	234.3	190.9
11	WH-1003	195.0	208.2	225.3	115.9	186.1	221.7	263.0	210.0	259.3	238.5	149.0	186.0	172.7	215.0	160.2	195.3	179.7
12	FCH-11267	215.0	213.0	251.7	127.1	201.7	238.3	238.0	195.0	278.0	237.3	140.3	181.7	196.7	210.0	166.1	215.3	185.0
13	DH-303	191.7	228.3	237.3	113.9	192.8	253.3	223.0	179.7	249.7	226.4	114.7	183.3	170.6	210.0	160.5	177.0	169.4
14	BLH 111	203.3	183.3	231.0	122.4	185.0	255.0	229.3	197.7	271.3	238.3	133.7	187.0	192.5	215.0	161.5	204.3	182.3
15	IQ8712	246.7	251.7	262.0	159.1	229.9	243.3	243.3	182.3	300.3	242.3	144.0	184.3	210.7	197.5	173.7	221.3	188.6
16	OMH 14-18(CAH 1519)	210.0	248.7	254.3	155.9	217.2	268.3	244.7	187.7	269.0	242.4	148.0	187.3	199.6	230.0	166.1	222.0	192.2
17	KMH-14-37	178.3	210.9	244.0	128.6	190.5	216.7	224.7	196.7	247.3	221.3	128.7	187.3	208.7	202.5	138.0	186.0	175.2
18	IQ8627	215.0	226.3	247.3	134.1	205.7	206.7	246.7	188.7	295.3	234.3	135.7	185.0	181.4	220.0	163.4	207.7	182.2
19	GH-150114(CAH1414)	206.7	192.3	266.3	128.9	198.6	243.3	236.7	168.0	274.3	230.6	134.0	181.7	192.8	205.0	166.4	212.3	182.0
20	VaMH 14020	186.7	194.7	244.0	130.6	189.0	235.0	232.7	168.0	267.0	225.7	125.3	188.0	179.4	200.0	155.1	204.3	175.4
21	GH-150125(CAH1525)	196.7	191.5	230.0	116.3	183.6	266.7	225.0	169.7	274.3	233.9	123.0	185.7	180.4	195.0	146.6	206.7	172.9
22	UDMH-129	211.7	237.3	242.3	128.6	205.0	260.0	243.3	167.7	249.7	230.2	127.3	187.0	165.2	195.0	160.8	185.7	170.2
23	IQ8319	213.3	243.0	250.0	141.2	211.9	238.3	255.3	172.3	279.7	236.4	140.0	186.0	182.8	227.5	176.4	215.3	188.0
24	IMHBG-2016-4	233.3	258.3	262.0	158.7	228.1	238.3	261.0	169.7	300.7	242.4	180.7	186.3	208.8	227.5	190.2	237.0	205.1
25	UDMH-128	171.7	191.2	194.0	103.1	165.0	228.3	195.7	180.0	217.0	205.3	110.0	187.3	180.1	172.5	133.8	170.3	159.0
26	GOLD-1155	190.0	236.0	246.0	131.5	200.9	235.0	231.3	164.3	265.7	224.1	129.0	188.0	193.2	205.0	148.2	194.7	176.3
27	BLH 113	218.3	209.7	240.0	143.9	203.0	241.7	227.3	178.3	268.7	229.0	156.7	185.7	196.9	202.5	178.8	221.0	190.3
28	IMHBG-2016-2	238.3	244.0	265.7	157.0	226.3	206.7	255.0	183.7	303.0	237.1	165.0	188.7	201.5	230.0	188.8	246.0	203.3

TABLE No. 3 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) BAJA	UDHA	KANG	GOSS	NHZ ZN 1 Mean	LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	NEPZ ZN 3 Mean
29	IMHBG-2016-5	211.7	190.0	262.3	121.6	196.4	235.0	237.3	184.0	270.3	231.7	145.7	184.7	197.9	200.0	176.7	192.0	182.8
30	DH-302	190.0	227.6	238.3	111.8	191.9	226.7	213.0	175.7	254.0	217.3	118.3	185.7	183.1	185.0	146.9	176.3	165.9
31	WH-2006	183.0	173.0	186.7	116.2	164.7	220.0	207.3	189.0	257.3	218.4	110.7	183.0	171.5	182.5	140.2	175.0	160.5
32	IQ7802	203.3	243.3	258.0	145.2	212.5	233.3	245.7	195.3	275.7	237.5	111.7	186.0	185.5	192.5	156.1	212.3	174.0
33	IMHBG-2016-1	200.0	192.7	251.7	117.1	190.4	248.3	231.7	175.7	266.0	230.4	133.0	184.3	166.8	200.0	161.9	208.7	175.8
34	IIMRNH 2016-1	221.7	253.7	259.3	145.6	220.1	258.3	257.7	186.7	291.7	248.6	146.3	184.3	185.7	222.5	156.6	239.3	189.1
35	Kranthi	183.3	227.9	251.7	120.0	195.7	213.3	238.3	186.7	243.3	220.4	117.3	187.0	176.6	192.5	153.1	191.0	169.6
36	GH-150141(CAH1441)	198.3	248.0	247.0	142.3	208.9	240.0	247.0	194.7	279.7	240.3	118.0	182.7	189.2	225.0	156.3	206.3	179.6
37	HM-9 (Filler)	173.3	178.3	232.7	104.1	172.1	246.7	203.7	200.3	257.0	226.9	109.0	185.3	174.5	195.0	145.8	175.3	164.2
	CHECKS																	
38	DHM 121(C)	206.7	189.7	254.3	143.8	198.6	263.3	236.7	186.0	264.3	237.6	128.7	192.3	192.4	215.0	159.2	193.7	180.2
39	CMH 08-292(C)	210.0	233.0	265.0	152.1	215.0	216.7	264.0	190.0	289.7	240.1	169.0	188.0	204.4	240.0	182.8	235.3	203.3
40	BIO 9544(C)	188.3	226.3	232.3	134.2	195.3	245.0	211.0	201.0	253.7	227.7	120.0	184.7	179.6	177.5	145.8	179.7	164.5
	Loc. Mean	**202.4**	**218.5**	**242.5**	**131.1**	**198.6**	**239.0**	**237.3**	**184.0**	**268.2**	**232.1**	**134.3**	**185.8**	**186.7**	**205.8**	**160.0**	**203.8**	**179.4**
	C.D. (5%)	17.27	3.26	13.14	22.58	18.07	46.20	4.85	7.71	11.37	21.83	22.51	4.99	14.48	17.79	18.58	13.71	12.21
	C.V. (%)	5.25	0.92	3.33	10.59	6.50	11.89	1.26	2.58	2.61	6.72	10.31	1.65	3.83	5.32	7.14	4.14	5.98
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.02	0.00	0.11	0.00	0.00	0.00	0.00	0.00

TABLE No. 3 (Contd.)

		PLANT HEIGHT(cm)							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	KMH-14-73	210.7	136.0	235.0	213.3	161.1	183.5	188.3	189.7	170.0	203.3	172.0	234.3	137.5	136.0	175.5	188.5
2	JKMH 4157	227.0	173.3	243.3	237.0	163.0	185.9	220.0	207.1	185.0	198.3	228.0	282.1	151.0	139.9	197.4	205.5
3	JKMH 1414	241.7	164.3	270.0	255.7	157.9	222.8	235.0	221.0	190.0	201.7	227.0	288.7	159.0	155.4	203.6	212.6
4	Gagan	204.3	152.0	228.3	208.7	176.9	156.7	190.0	188.1	163.3	185.0	185.7	250.4	137.5	133.2	175.9	190.1
5	IMHBG-2016-6	229.7	191.7	264.3	241.0	180.1	215.9	221.7	220.6	173.3	208.3	222.3	281.5	173.5	153.7	202.1	215.2
6	BLH 112	221.0	152.3	236.3	219.7	161.9	190.2	210.0	198.8	153.3	166.7	198.0	258.2	149.0	149.8	179.2	191.6
7	WH-2002	175.0	128.3	191.0	177.0	133.8	163.1	201.7	167.1	173.3	175.0	160.3	225.1	143.0	120.9	166.3	174.1
8	DH-291	200.7	156.7	227.7	207.7	148.5	180.9	201.7	189.1	160.0	165.0	185.0	244.5	147.5	113.3	169.2	183.2
9	OMH 14-30(CAH 1514)	214.0	144.0	234.3	203.3	172.8	180.3	208.3	193.9	173.3	181.7	188.7	253.9	138.5	138.5	179.1	188.0
10	MM9222	230.3	163.3	270.0	235.0	168.2	204.1	236.7	215.4	201.7	148.3	213.3	293.3	165.0	162.9	197.4	211.3
11	WH-1003	233.7	154.3	238.7	215.3	161.4	196.4	198.3	199.7	170.0	180.0	189.3	251.5	136.5	144.6	178.7	194.3
12	FCH-11267	222.3	171.7	264.3	224.3	166.2	182.6	210.0	205.9	181.7	161.7	224.0	271.3	165.0	144.2	191.3	202.1
13	DH-303	215.3	151.0	232.7	214.7	150.1	188.1	206.7	194.1	181.7	153.3	182.7	241.5	154.0	134.7	174.6	188.9
14	BLH 111	227.3	149.3	275.7	232.3	173.2	186.8	201.7	206.6	210.0	180.0	206.7	271.5	145.0	141.8	192.5	199.6
15	IQ8712	222.7	206.3	251.0	216.7	158.8	191.7	226.7	210.6	200.0	165.0	206.7	252.0	143.5	145.5	185.4	207.7
16	OMH 14-18(CAH 1519)	234.3	166.0	254.0	232.7	173.0	209.3	220.0	212.8	210.0	180.0	218.0	276.4	161.0	154.0	199.9	210.4
17	KMH-14-37	192.7	144.0	214.0	194.7	173.5	180.2	175.0	182.0	190.0	178.3	177.7	238.1	143.5	127.4	175.8	186.2
18	IQ8627	225.3	154.7	266.3	246.0	161.5	185.9	213.3	207.6	190.0	188.3	220.3	279.3	156.0	131.8	194.3	202.7
19	GH-150114(CAH1414)	227.3	157.0	253.7	223.7	161.2	190.8	206.7	202.9	170.0	188.3	210.0	267.4	158.0	123.9	186.3	198.0
20	VaMH 14020	203.3	157.0	232.7	227.0	147.8	182.4	198.3	192.6	171.7	178.3	199.7	247.7	152.5	134.1	180.7	190.5
21	GH-150125(CAH1525)	222.3	172.3	239.0	226.0	181.5	189.8	203.3	204.9	163.3	196.7	195.0	263.4	156.5	127.6	183.8	194.2
22	UDMH-129	213.7	144.7	238.7	225.3	178.8	194.0	183.3	196.9	180.0	156.7	186.0	252.1	165.0	143.8	180.6	193.5
23	IQ8319	220.3	153.7	245.7	220.3	171.4	204.0	220.0	205.1	186.7	210.0	204.3	271.1	161.5	131.8	194.2	204.5
24	IMHBG-2016-4	238.0	175.0	261.0	237.7	186.7	200.2	223.3	217.4	190.0	165.0	216.3	281.9	161.5	173.7	198.1	215.7
25	UDMH-128	184.3	126.3	194.0	187.3	141.3	154.2	158.3	163.7	180.0	175.0	151.3	222.1	146.5	109.4	164.1	169.1
26	GOLD-1155	218.3	149.7	244.0	229.7	176.0	186.2	215.0	202.7	218.3	193.3	194.0	254.5	151.0	128.3	189.9	196.9
27	BLH 113	242.0	164.3	242.0	225.0	177.2	175.2	231.7	208.2	210.0	176.7	192.7	279.1	154.0	136.5	191.5	202.8
28	IMHBG-2016-2	234.7	182.0	262.7	241.0	182.1	200.2	223.3	218.0	160.0	186.7	230.7	272.8	162.5	162.3	195.8	213.9

TABLE No. 3 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
29	IMHBG-2016-5	216.0	161.3	242.3	223.0	161.8	216.2	210.0	204.4	191.7	190.0	184.3	263.3	160.0	125.7	185.8	198.3
30	DH-302	205.0	145.7	226.0	207.3	144.7	177.3	205.0	187.3	190.0	183.3	172.7	243.9	136.0	128.6	175.8	185.1
31	WH-2006	197.3	154.3	207.3	201.7	148.7	184.3	180.0	182.0	170.0	170.0	181.7	244.1	139.5	119.1	170.7	177.5
32	IQ7802	213.7	158.3	261.0	225.3	165.4	191.3	201.7	202.4	171.7	203.3	216.3	266.5	147.5	135.8	190.2	200.1
33	IMHBG-2016-1	209.3	145.3	239.0	206.7	149.0	159.0	188.3	185.2	211.7	210.0	188.7	248.3	165.0	129.7	192.2	192.1
34	IIMRNH 2016-1	238.7	180.3	269.7	251.7	172.5	199.1	225.0	219.6	181.7	193.3	210.3	282.5	162.5	153.1	197.2	212.2
35	Kranthi	197.0	152.7	227.3	206.0	161.1	188.1	173.3	186.5	180.0	199.7	171.3	242.7	163.0	121.1	179.6	187.6
36	GH-150141(CAH1441)	224.3	161.3	234.0	235.7	157.4	199.2	233.3	206.5	190.0	176.7	178.0	282.9	147.5	149.4	187.4	201.6
37	HM-9 (Filler)	197.3	144.3	220.7	206.3	143.2	178.2	188.3	182.6	200.0	180.0	174.7	237.4	152.5	117.1	176.9	182.3
	CHECKS																
38	DHM 121(C)	196.0	165.0	243.0	206.7	168.8	188.2	203.3	195.9	171.7	193.3	193.3	258.7	156.5	148.8	187.1	197.0
39	CMH 08-292(C)	232.7	183.3	267.7	236.3	176.5	202.8	221.7	217.3	190.0	201.7	239.7	286.1	155.0	158.4	205.1	214.5
40	BIO 9544(C)	193.7	141.3	222.7	216.3	156.2	192.5	195.0	188.2	160.0	193.3	175.7	237.9	161.0	116.9	174.1	186.7
	Loc. Mean	**216.3**	**158.4**	**241.8**	**221.0**	**163.8**	**188.9**	**206.3**	**199.5**	**182.9**	**183.5**	**196.8**	**260.0**	**153.0**	**137.6**	**185.6**	**196.7**
	C.D. (5%)	16.50	14.19	23.00	20.31	8.64	6.43	28.69	10.48	10.21	42.84	12.91	22.40	36.71	7.99	15.49	6.62
	C.V. (%)	4.69	5.51	5.85	5.65	3.25	2.09	8.55	4.99	3.44	14.36	4.04	5.30	11.86	3.57	7.33	6.31
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.96	0.00	0.00	0.00

TABLE No. 3 (Contd.)

		EAR HEIGHT(cm)				NHZ					NWPZ							NEPZ
						ZN 1					ZN 2							ZN 3
S.No.	PEDIGREE	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	KMH-14-73	81.7	91.3	125.7	53.9	88.2	120.0	128.0	69.3	109.7	106.8	55.3	87.3	76.7	110.0	52.6	110.7	82.1
2	JKMH 4157	90.0	88.7	116.0	55.7	87.6	156.7	133.7	71.0	107.3	117.2	68.3	84.7	84.6	105.0	58.0	113.0	85.6
3	JKMH 1414	116.7	107.1	142.7	63.7	107.5	143.3	138.0	79.7	126.0	121.8	61.7	88.3	93.4	122.5	73.0	120.0	93.1
4	Gagan	90.0	103.4	116.7	54.7	91.2	138.3	123.7	70.3	106.0	109.6	56.7	87.7	98.6	107.5	54.8	89.3	82.4
5	IMHBG-2016-6	110.0	89.7	136.7	66.5	100.7	160.0	145.3	65.0	121.7	123.0	77.3	86.7	106.0	105.0	77.4	129.3	97.0
6	BLH 112	93.3	80.8	107.0	58.6	84.9	126.7	108.0	77.7	95.3	101.9	62.7	84.0	96.8	110.0	64.8	95.0	85.6
7	WH-2002	85.0	88.5	116.3	49.7	84.9	128.3	117.7	64.7	77.3	97.0	61.7	86.7	86.8	87.5	37.8	79.3	73.3
8	DH-291	86.7	81.3	129.3	45.8	85.8	140.0	132.0	76.0	101.3	112.3	45.7	85.3	89.3	82.5	50.6	88.7	73.7
9	OMH 14-30(CAH 1514)	81.7	85.0	125.0	37.6	82.3	133.3	121.3	90.0	107.0	112.9	48.0	87.3	81.5	95.0	55.4	101.0	78.0
10	MM9222	130.0	99.5	135.3	71.3	109.0	145.0	144.0	85.0	124.0	124.5	63.3	84.3	92.7	110.0	72.7	130.0	92.2
11	WH-1003	81.7	90.5	124.0	55.4	87.9	111.7	143.7	65.7	102.3	105.8	61.0	86.0	75.0	92.5	66.2	95.3	79.3
12	FCH-11267	111.7	86.3	131.7	59.0	97.2	140.0	151.0	72.7	141.0	126.2	68.3	86.3	98.4	117.5	75.5	122.3	94.7
13	DH-303	83.3	87.5	122.3	40.9	83.5	146.7	115.7	77.7	89.7	107.4	46.0	85.0	68.6	105.0	55.6	75.7	72.6
14	BLH 111	90.0	77.7	135.0	51.6	88.6	133.3	117.3	72.0	105.3	107.0	59.0	86.0	100.3	107.5	55.4	98.3	84.4
15	IQ8712	135.0	105.7	140.0	72.3	113.3	145.0	146.0	82.0	138.7	127.9	64.0	86.0	110.9	106.5	64.2	126.0	92.9
16	OMH 14-18(CAH 1519)	90.0	105.0	128.0	68.6	97.9	165.0	133.0	82.7	108.0	122.2	57.7	85.3	88.7	122.5	70.1	111.3	89.3
17	KMH-14-37	88.3	89.2	124.3	60.8	90.7	126.7	121.3	92.3	109.3	112.4	60.3	85.7	96.2	95.0	61.3	96.0	82.4
18	IQ8627	106.7	93.7	117.3	50.2	92.0	115.0	148.3	88.0	122.7	118.5	59.7	85.7	91.4	112.5	59.0	113.3	86.9
19	GH-150114(CAH1414)	120.0	91.2	135.7	56.3	100.8	148.3	131.3	67.0	110.0	114.2	57.0	86.3	96.2	107.5	71.2	120.3	89.8
20	VaMH 14020	100.0	101.0	130.7	63.5	98.8	136.7	138.0	74.0	108.0	114.2	56.0	87.3	89.4	105.0	62.6	115.7	86.0
21	GH-150125(CAH1525)	86.7	91.3	118.0	29.6	81.4	146.7	107.3	65.0	96.7	103.9	50.0	86.7	73.1	95.0	48.7	97.0	75.1
22	UDMH-129	105.0	94.3	119.0	64.2	95.6	143.3	134.3	66.7	111.7	114.0	59.0	86.7	83.0	97.5	59.9	99.3	80.9
23	IQ8319	113.3	93.6	145.0	66.7	104.7	140.0	140.7	79.3	118.0	119.5	70.7	88.3	82.9	107.5	86.4	118.7	92.4
24	IMHBG-2016-4	113.3	102.5	139.7	84.8	110.1	133.3	150.3	63.0	130.3	119.3	80.7	87.0	99.4	122.5	75.0	129.7	99.0
25	UDMH-128	88.3	86.4	100.0	38.0	78.2	141.7	98.7	59.0	83.0	95.6	50.7	89.7	87.2	75.0	44.2	84.3	71.9
26	GOLD-1155	95.0	93.5	128.3	58.4	93.8	135.0	129.3	59.0	113.3	109.2	61.0	86.7	98.8	115.0	59.5	109.0	88.3
27	BLH 113	101.7	90.5	135.0	67.4	98.6	131.7	123.7	63.3	97.0	103.9	66.3	87.0	82.0	95.0	58.4	113.0	83.6
28	IMHBG-2016-2	121.7	100.8	131.0	80.7	108.5	120.0	136.0	66.7	133.7	114.1	76.0	85.3	89.3	127.5	78.5	134.0	98.4

TABLE No. 3 (Contd.)

S.No.	PEDIGREE	EAR HEIGHT(cm)				NHZ ZN 1					NWPZ ZN 2							NEPZ ZN 3
		BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
29	IMHBG-2016-5	115.0	88.6	138.3	53.2	98.8	133.3	136.0	70.0	124.3	115.9	73.0	81.7	103.2	110.0	72.5	107.7	91.3
30	DH-302	91.7	86.6	122.3	42.9	85.9	133.3	123.7	75.7	98.3	107.8	59.0	84.0	80.4	90.0	51.5	79.3	74.0
31	WH-2006	91.7	84.3	100.3	39.9	79.1	118.3	84.3	63.0	86.3	88.0	44.0	88.0	86.1	100.0	42.8	82.7	73.9
32	IQ7802	86.7	91.0	123.3	53.3	88.6	136.7	108.3	59.0	108.0	103.0	43.0	87.0	80.5	87.5	53.3	103.0	75.7
33	IMHBG-2016-1	101.7	85.3	134.3	46.9	92.1	136.7	125.0	58.0	111.0	107.7	61.0	82.3	88.0	100.0	68.1	103.7	83.9
34	IIMRNH 2016-1	116.7	93.6	139.3	74.2	106.0	148.3	151.7	63.7	131.7	123.8	73.0	84.7	101.2	122.5	66.0	137.3	97.5
35	Kranthi	91.7	83.3	141.7	53.0	92.4	126.7	139.0	63.7	110.7	110.0	57.7	87.3	83.9	105.0	61.0	109.3	84.0
36	GH-150141(CAH1441)	101.7	90.0	131.3	54.1	94.3	143.3	132.7	67.0	112.7	113.9	50.7	85.0	85.3	120.0	51.0	105.3	82.9
37	HM-9 (Filler)	76.7	81.7	127.7	49.0	83.8	135.0	120.3	73.0	113.3	110.4	50.0	85.0	81.4	105.0	59.6	83.7	77.4
	CHECKS																	
38	DHM 121(C)	101.7	83.2	128.0	63.1	94.0	150.0	134.0	63.0	105.7	113.2	62.0	88.7	83.2	112.5	53.5	104.3	84.0
39	CMH 08-292(C)	105.0	92.3	131.0	75.4	100.9	130.0	152.7	73.3	124.3	120.1	85.7	87.0	106.3	145.0	81.6	134.7	106.7
40	BIO 9544(C)	98.3	105.6	133.3	60.0	99.3	130.0	120.7	76.3	96.7	105.9	55.7	87.0	89.9	90.0	59.8	97.0	79.9
	Loc. Mean	**99.4**	**91.5**	**127.7**	**57.3**	**94.0**	**136.8**	**129.7**	**71.3**	**110.4**	**112.0**	**60.5**	**86.2**	**89.7**	**105.7**	**61.7**	**106.6**	**85.1**
	C.D. (5%)	12.95	6.55	7.13	15.43	11.18	34.69	3.43	6.55	7.78	15.28	14.26	3.28	8.35	15.48	12.69	13.00	9.48
	C.V. (%)	8.01	4.40	3.43	16.58	8.49	15.60	1.63	5.66	4.33	9.74	14.51	2.34	4.60	9.01	12.65	7.50	9.78
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00

TABLE No. 3 (Contd.)

		EAR HEIGHT(cm)							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	KMH-14-73	83.0	46.7	171.7	115.3	79.0	99.3	76.7	95.9	76.7	88.3	68.7	92.7	66.5	68.0	76.8	89.1
2	JKMH 4157	91.7	67.0	123.7	121.7	86.5	86.3	80.0	93.8	81.7	81.7	91.0	99.7	59.0	70.0	80.5	91.6
3	JKMH 1414	103.3	59.3	134.7	151.7	103.2	124.2	108.3	112.1	83.3	86.7	107.3	126.7	66.0	77.7	91.3	104.0
4	Gagan	89.7	53.7	103.3	105.3	83.4	88.3	73.3	85.3	76.7	86.7	90.0	99.0	56.5	66.6	79.2	87.8
5	IMHBG-2016-6	105.3	74.3	119.3	128.7	98.8	113.9	98.3	105.5	78.3	105.0	106.3	118.1	80.5	76.9	94.2	103.0
6	BLH 112	95.0	52.3	100.7	109.0	80.2	90.2	88.3	88.0	63.3	80.0	90.0	95.1	60.0	74.9	77.2	86.7
7	WH-2002	64.0	45.3	88.7	94.0	70.9	79.1	66.7	72.7	86.7	76.7	68.0	90.3	65.0	60.4	74.5	78.6
8	DH-291	82.0	52.7	106.3	103.7	80.7	86.5	83.3	85.0	70.0	75.0	85.3	100.7	65.0	56.7	75.5	84.5
9	OMH 14-30(CAH 1514)	92.0	43.0	118.3	101.3	82.7	93.5	78.3	87.0	66.7	76.7	88.7	100.9	65.0	69.2	77.9	86.1
10	MM9222	103.7	57.7	123.7	136.0	92.8	109.4	100.0	103.3	86.7	79.3	107.3	124.3	78.5	81.4	92.9	102.5
11	WH-1003	108.0	53.0	109.0	118.7	85.7	101.3	78.3	93.4	86.7	72.3	82.7	104.7	57.5	72.3	79.4	88.2
12	FCH-11267	105.3	65.3	127.0	123.0	102.3	104.0	98.3	103.6	86.7	76.7	106.0	119.5	78.5	72.1	89.9	101.0
13	DH-303	80.0	42.7	90.3	110.7	74.8	87.8	85.0	81.6	71.7	66.7	82.7	87.9	67.5	67.3	74.0	82.0
14	BLH 111	95.3	49.7	112.7	118.0	81.8	89.0	75.0	88.8	98.3	81.3	97.3	105.1	62.5	70.9	85.9	89.8
15	IQ8712	94.3	80.0	119.3	123.3	95.3	99.1	93.3	100.7	83.3	80.0	96.7	114.7	64.0	72.7	85.2	101.4
16	OMH 14-18(CAH 1519)	103.0	59.3	110.3	114.3	104.0	106.9	91.7	98.5	98.3	80.0	100.3	110.2	75.5	77.0	90.2	98.0
17	KMH-14-37	83.0	52.0	91.3	101.0	86.3	89.0	71.7	82.0	90.0	76.7	83.3	98.3	67.5	63.7	79.9	87.4
18	IQ8627	97.3	55.7	125.3	133.7	82.1	84.5	86.7	95.0	86.7	88.3	106.7	116.3	70.0	65.9	89.0	94.9
19	GH-150114(CAH1414)	95.3	54.7	134.7	131.3	85.2	94.3	86.7	97.4	80.0	80.0	107.3	126.7	73.5	62.0	88.2	96.7
20	VaMH 14020	89.7	58.0	116.0	131.3	80.3	97.4	90.0	94.7	70.0	75.0	106.0	110.4	69.0	67.1	82.9	93.6
21	GH-150125(CAH1525)	84.3	65.3	101.3	106.3	89.7	94.9	75.0	88.1	66.7	91.3	82.0	100.7	67.0	63.8	78.6	84.5
22	UDMH-129	92.0	53.0	117.7	125.7	91.1	104.1	70.0	93.4	80.0	70.0	85.0	110.3	82.5	71.9	83.3	91.7
23	IQ8319	103.7	55.7	125.7	130.3	97.8	106.3	100.0	102.8	83.3	91.7	103.3	124.0	76.5	65.9	90.8	100.6
24	IMHBG-2016-4	111.0	67.3	121.0	129.0	106.6	109.4	103.3	106.8	83.3	71.7	102.0	123.0	76.0	86.8	90.5	103.8
25	UDMH-128	78.7	36.3	90.7	94.7	71.1	74.4	63.3	72.7	85.0	81.3	67.7	85.7	60.0	54.7	72.4	76.7
26	GOLD-1155	99.0	51.7	119.7	133.7	86.3	97.4	96.7	97.8	91.7	83.3	89.3	104.2	70.0	64.2	83.8	93.7
27	BLH 113	99.3	58.3	109.0	118.3	83.1	87.6	96.7	93.2	93.3	90.0	75.7	106.9	66.5	68.3	83.4	91.3
28	IMHBG-2016-2	105.3	67.0	115.3	131.0	96.8	116.3	106.7	105.5	81.7	75.0	108.7	116.3	71.0	81.1	89.0	102.0

TABLE No. 3 (Contd.)

S.No.	PEDIGREE	EAR HEIGHT(cm) HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
29	IMHBG-2016-5	102.0	60.0	122.7	132.7	83.8	116.3	98.3	102.3	86.7	76.3	102.7	122.1	76.0	62.9	87.8	98.1
30	DH-302	75.3	50.7	102.3	107.3	69.1	80.9	76.7	80.3	73.3	83.3	70.0	85.3	54.0	64.3	71.7	81.9
31	WH-2006	76.3	53.3	94.0	124.3	76.1	85.3	70.0	82.8	73.3	70.0	70.0	91.1	62.5	59.5	71.1	78.4
32	IQ7802	89.0	55.0	120.0	121.0	81.0	95.2	81.7	91.8	80.0	91.7	94.7	108.1	67.5	67.9	85.0	87.9
33	IMHBG-2016-1	90.3	50.7	110.7	105.3	78.9	86.7	73.3	85.1	95.0	96.7	91.3	109.7	71.5	64.8	88.2	89.9
34	IIMRNH 2016-1	116.7	72.3	143.7	152.7	104.7	114.5	100.0	114.9	95.0	75.0	115.7	126.5	79.5	76.6	94.7	106.5
35	Kranthi	96.0	51.3	117.7	112.3	83.2	99.3	78.3	91.2	76.7	88.0	89.0	107.1	70.5	60.5	82.0	90.5
36	GH-150141(CAH1441)	91.7	58.7	124.3	127.7	84.5	99.5	91.7	96.9	76.7	81.3	92.0	113.9	58.5	74.7	82.8	92.8
37	HM-9 (Filler)	79.0	49.0	99.3	109.3	75.7	88.5	71.7	81.8	90.0	75.0	78.7	88.5	68.0	58.6	76.5	84.2
	CHECKS																
38	DHM 121(C)	79.0	50.3	116.7	116.3	82.4	91.8	90.0	89.5	81.7	91.7	93.7	102.3	75.0	74.4	86.4	91.8
39	CMH 08-292(C)	113.7	67.0	132.7	144.3	97.2	113.3	108.3	110.9	93.3	91.7	131.0	126.7	63.5	79.2	97.6	106.9
40	BIO 9544(C)	83.3	49.3	115.0	118.7	83.5	102.1	91.7	91.9	70.0	88.3	85.0	104.5	67.5	58.4	79.0	89.5
	Loc. Mean	**93.2**	**56.1**	**115.6**	**120.3**	**86.5**	**97.2**	**86.3**	**93.6**	**82.0**	**81.9**	**92.5**	**107.4**	**68.3**	**68.8**	**83.5**	**92.2**
	C.D. (5%)	13.96	7.89	30.64	16.09	6.86	5.01	18.29	7.93	8.03	22.62	11.15	15.19	26.18	4.00	9.26	4.54
	C.V. (%)	9.22	8.65	16.30	8.22	4.88	3.17	13.03	8.04	6.03	16.99	7.42	8.70	18.96	3.57	9.75	9.22
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.94	0.00	0.00	0.00

TABLE No. 4 **PERFORMANCE OF MEDIUM MATURITY EXPERIMENTAL HYBRIDS AT BAJAURA, UDHAMPUR, KANGRA, GOSSAIGAON, LUDHIANA, KARNAL, KANPUR, PANTNAGAR, DHOLI, BHUBANESHWAR, RANCHI, VARANASI, BAHRAICH, SABOUR, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, VAGARAI, COIMBATORE, RAHURI, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA, JHABUA IN TRIAL No. TR62B (NIVT MEDIUM) DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								NHZ ZN 1										NWPZ ZN 2	
		BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
1	LMH 616	9298	12	8452	18	7017	21	1124	37	8256	18	7817	13	7229	16	8238	40	8017	15	7825	22
2	IMH 1607	8195	24	9620	6	7864	12	2756	8	8560	11	5900	31	6795	26	9582	19	5901	39	7045	38
3	IMH 1606	10455	2	8823	15	5592	37	1731	22	8290	16	6318	29	5244	41	8828	34	7372	29	6940	40
4	IMH 1526	8572	19	6932	38	7626	15	1486	28	7710	25	7813	15	6894	24	10124	14	7781	20	8153	16
5	HKH 354	7845	28	9254	9	6387	31	914	38	7829	23	6177	30	6798	25	9176	25	6339	36	7122	35
6	IMH 1609	8602	18	9873	2	6927	23	2309	15	8467	12	7332	21	6019	36	9012	30	6131	38	7124	34
7	DMRH 1419	8760	15	9099	13	7301	17	2479	12	8387	14	8350	5	8206	2	9711	18	9390	4	8914	6
8	LMH 916	6901	35	6842	40	5970	34	2665	11	6571	37	7170	23	7526	5	8415	36	6304	37	7354	31
9	LMH 816	8244	23	9473	7	7993	9	2719	10	8570	10	7553	18	6734	27	8295	38	6952	33	7383	29
10	IMH 1604	8686	16	9942	1	6709	25	1612	24	8445	13	7067	25	7973	3	8881	33	7536	24	7864	20
11	MH 23	10136	4	8856	14	5574	38	1265	32	8189	19	8042	10	5677	38	9223	24	7807	19	7687	25
12	IMH 1605	8151	25	7024	37	6455	29	1302	31	7210	34	5832	34	6329	31	8920	31	7262	31	7086	36
13	LMH 1116	7043	33	7865	25	8806	3	2909	4	7905	22	7850	12	7050	19	8081	41	7558	23	7635	26
14	IMH 1608	6416	40	7607	30	4034	41	535	39	6019	40	4070	41	5894	37	9228	23	3942	41	5784	41
15	EH-2906	6983	34	6904	39	7793	14	1822	21	7226	33	8617	3	6312	32	9752	17	8107	14	8197	15
16	LMH 716	7674	30	8767	16	8467	6	2769	6	8302	15	7203	22	7506	6	8704	35	7445	27	7714	24
17	VEH-16-1	7373	31	7472	32	4350	40	1197	34	6399	39	4985	38	8298	1	9128	26	7448	26	7465	27
18	IMH 1601	8819	14	8011	22	8010	8	3336	2	8280	17	8243	7	7340	14	10043	15	8500	11	8531	10
19	HKH 355	6579	38	7848	26	6281	32	1214	33	6903	36	5800	35	6602	30	9797	16	7146	32	7336	32
20	MMH 1403	8663	17	8421	20	6063	33	2346	13	7716	24	5583	36	7465	9	9287	21	7413	28	7437	28
21	HKH 356	6460	39	7649	29	5138	39	1559	25	6416	38	5084	37	7100	17	10137	13	6919	35	7310	33
22	KH-2001 Gold	11208	1	8435	19	8886	2	1180	35	9510	1	8492	4	7408	10	10949	9	12245	1	9773	1
23	IMH 1602	7086	32	7367	34	7811	13	2758	7	7421	31	7105	24	7013	21	12583	2	7929	16	8658	8
24	BH 414176	8016	27	7574	31	7303	16	1340	29	7631	27	7814	14	6937	22	12369	4	9292	5	9103	2
25	CCH 9999	9016	13	9164	12	7867	11	2291	16	8683	8	7743	17	7492	7	8918	32	10186	3	8585	9
26	LMH 1216	10068	5	9430	8	8682	4	2246	17	9393	2	8622	2	7939	4	8247	39	8123	13	8233	14
27	DMRH 1410	9505	7	9820	3	7129	20	3051	3	8818	7	6928	26	6703	28	9333	20	8712	10	7919	19
28	BH 414351	7810	29	7468	33	6640	27	2105	19	7306	32	7766	16	7390	12	12216	5	7483	25	8714	7

TABLE No. 4 **PERFORMANCE OF MEDIUM MATURITY EXPERIMENTAL HYBRIDS AT BAJAURA, UDHAMPUR, KANGRA, GOSSAIGAON, LUDHIANA, KARNAL, KANPUR, PANTNAGAR, DHOLI, BHUBANESHWAR, RANCHI, VARANASI, BAHRAICH, SABOUR, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, VAGARAI, COIMBATORE, RAHURI, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA, JHABUA IN TRIAL No. TR62B (NIVT MEDIUM) DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE							NHZ ZN 1 MEAN	R							NWPZ ZN 2 MEAN	R
		BAJA	R	UDHA	R	KANG	R	GOSS	R			LUDH	R	KARN	R	KANP	R	PANT	R	
29	HKH 353	5272	41	6529	41	5747	36	402	41	5849	41	4899	39	5542	39	11769	6	5649	40	6965	39
30	LMH 1016	8091	26	9779	4	8590	5	1542	27	8820	6	6894	27	6049	35	10905	10	9276	7	8281	13
31	INDAM-1122	9452	8	7828	27	9654	1	4701	1	8978	5	8134	8	6902	23	13448	1	7917	17	9100	3
32	IMH 1603	9319	11	9671	5	7966	10	2754	9	8985	4	8105	9	7283	15	10487	11	7659	22	8383	12
33	DAS-MH-310	9839	6	9241	10	8010	7	1337	30	9030	3	8320	6	7049	20	11248	7	9134	9	8938	5
34	IMH 1527	10430	3	8260	21	7165	19	1944	20	8618	9	7471	20	7469	8	9109	28	7304	30	7838	21
35	IMH 1533	8325	22	7365	35	6903	24	1156	36	7531	29	5844	33	7407	11	10212	12	7819	18	7820	23
36	AH-7080	8469	21	8537	17	5864	35	1544	26	7623	28	5847	32	7365	13	9262	22	9243	8	7929	18
37	MH 24	6768	36	7094	36	7300	18	2890	5	7054	35	7538	19	6679	29	8370	37	6932	34	7380	30
38	HM-9 (Filler)	6657	37	9180	11	6624	28	530	40	7487	30	4778	40	6242	34	9040	29	8197	12	7064	37
	CHECKS																				
39	DHM 121 (BH 41009)(C	8495	20	7886	24	6641	26	2344	14	7674	26	6432	28	7086	18	11096	8	7673	21	8072	17
40	CMH 08-292(C)	9326	10	7715	28	6949	22	1722	23	7997	20	9120	1	5452	40	12539	3	9288	6	9100	4
41	BIO 9544(C)	9401	9	7985	23	6400	30	2135	18	7929	21	8022	11	6306	33	9121	27	10526	2	8494	11
	Location Mean	**8351**		**8319**		**7036**		**1952**		**7902**		**7041**		**6895**		**9848**		**7850**		**7909**	
	C.D. (5%)	779		710		921		2105		804		1522		396		1924		1311		1288	
	C.V. (%)	5.74		5.25		8.06		**66.38**		**-**		13.3		3.53		12.02		10.27		**-**	
	F (Prob)	0		0		0		0.109				0		0		0		0			
	Plot Size	3.6		4.8		2.64		4.8		-		4.8		6		4.8		4.5		-	
	AGRONOMY DATA																				
	Sowing Date	17-06		28-06		21-06		17-07		-		21-06		25-06		6-08		29-06		-	
	Harvest Date	11-10		7-10		5-10		29-10		-		2-10		23-09		5-12		14-10		-	
	Irrigation Nos	3		-		-		1		-		7		5		2		-		-	
	Ferilizer Applied N	120		120		120		120		-		50		150		140		120		-	
	Ferilizer Applied P	60		60		60		60		-		24		60		60		60		-	
	Ferilizer Applied K	40		40		40		60		-		12		60		50		40		-	

LOCATIONS REJECTED DUE TO HIGH C.V. : GOSS 66.4 %: SABO 22.6 %: JHAB 40.7 %

TABLE No. 4 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												NEPZ ZN 3														PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R
1	LMH 616	5100	6	5719	6	6491	11	7013	11	4387	32	8072	3	5742	8	6892	22	6034	8	8363	24	9962	20	6418	25	8761	23	5819	26	7464	25
2	IMH 1607	3299	27	4782	26	4468	36	6616	20	5833	19	7031	9	4999	31	6828	25	2480	37	7039	37	10147	17	7175	19	9397	18	5257	37	6903	29
3	IMH 1606	3818	19	4435	39	4793	29	6026	27	7274	4	4495	33	5269	22	9595	1	3095	33	7906	29	9855	23	3246	41	9114	19	7045	7	7122	27
4	IMH 1526	2871	39	5045	22	5397	23	6827	16	3732	39	5236	26	4774	37	5355	37	4091	28	10156	6	9537	25	8359	8	10156	12	5837	25	7641	23
5	HKH 354	4710	7	4082	41	5220	25	6554	22	5277	26	4000	37	5168	27	6556	29	4606	21	7789	31	8408	33	5204	35	8101	33	5545	32	6601	32
6	IMH 1609	3052	36	4700	31	4766	30	6861	14	5781	21	5567	23	5032	30	7248	19	3711	30	7720	32	8098	38	6263	28	7191	37	5869	24	6586	33
7	DMRH 1419	3146	32	4939	24	5714	20	7628	4	6431	11	5733	21	5572	11	6649	27	4435	24	8719	21	10414	13	7950	12	10536	9	7043	8	7964	18
8	LMH 916	3100	33	6020	2	7047	5	5862	30	6373	15	4423	34	5680	9	6803	26	3613	31	8459	22	8464	31	6986	20	8137	32	7174	6	7091	28
9	LMH 816	2970	37	5317	13	4720	31	5798	33	5483	23	6159	18	4858	33	8791	6	4540	22	9515	14	11073	4	7926	13	8301	30	6466	17	8087	12
10	IMH 1604	6359	3	5725	5	7501	2	6413	25	6403	12	6116	19	6480	2	6552	30	6092	7	7821	30	8802	28	9510	4	7865	34	5550	31	7456	26
11	MH 23	3750	21	5032	23	5467	22	5723	34	3974	36	5444	24	4789	35	5853	34	4770	17	8342	25	9730	24	7855	15	11847	4	6915	12	7902	20
12	IMH 1605	7399	1	5360	12	4046	38	6716	18	7482	2	4904	28	6201	4	7153	20	6142	6	7250	34	11339	2	5981	31	9584	16	6301	19	7678	21
13	LMH 1116	3085	35	4640	33	6845	8	7136	6	5715	22	7335	7	5484	15	7144	21	6406	3	9598	12	9132	27	7691	16	8655	24	7854	3	8069	13
14	IMH 1608	4211	12	5078	21	3539	40	7041	9	3784	38	2836	41	4731	39	4370	40	2278	40	4274	41	6013	41	3784	39	4155	41	4228	41	4157	41
15	EH-2906	4115	14	5261	16	4133	37	5712	35	4687	30	6832	11	4782	36	7489	18	5553	10	10743	4	10221	15	5572	33	10041	13	6300	20	7988	16
16	LMH 716	4002	16	5467	9	4703	33	6363	26	6881	7	4843	30	5483	16	6400	31	3743	29	10017	9	10876	6	7477	18	8154	31	7026	9	7671	22
17	VEH-16-1	6093	4	4612	35	6669	9	4806	41	4375	33	5227	27	5311	21	6842	24	4108	27	7047	36	7441	39	5282	34	8553	25	5296	35	6367	35
18	IMH 1601	2920	38	4730	30	6462	12	6547	23	6374	14	6266	16	5407	19	8571	8	6034	9	8263	26	10480	12	8257	10	12704	1	6949	11	8751	4
19	HKH 355	3622	24	4634	34	4706	32	7002	12	3986	35	4715	31	4790	34	5489	36	4252	26	8145	27	8256	34	6363	26	8313	29	6009	23	6690	31
20	MMH 1403	4534	10	6266	1	4016	39	4873	40	4680	31	4402	36	4874	32	6209	32	4430	25	9172	17	8494	30	5593	32	5281	40	5384	34	6366	36
21	HKH 356	4249	11	5104	19	5045	27	5499	38	5901	18	5286	25	5160	28	6151	33	2377	39	8398	23	8214	35	4643	38	7007	38	4943	40	5962	38
22	KH-2001 Gold	5406	5	5594	7	7323	3	7955	3	5266	27	9625	1	6309	3	8565	9	6626	2	9515	13	10705	9	7598	17	8970	21	5021	38	8143	10
23	IMH 1602	3539	26	4491	37	5767	18	6726	17	3228	40	5724	22	4750	38	5002	38	4680	18	8754	19	8193	36	6465	24	8494	27	5669	29	6751	30
24	BH 414176	3744	22	5426	10	5713	21	6870	13	5425	24	6495	15	5436	17	7799	15	6396	4	10182	5	10157	16	8089	11	9903	15	6881	13	8487	6
25	CCH 9999	3619	25	4899	25	4513	35	8448	2	5102	28	5791	20	5316	20	6626	28	4461	23	6757	39	10791	8	10374	2	12160	3	5602	30	8110	11
26	LMH 1216	3873	17	4746	29	5775	17	6696	19	6433	10	8368	2	5505	14	8966	4	5053	14	9473	15	10241	14	8797	5	10851	7	7239	5	8660	5
27	DMRH 1410	3683	23	4272	40	7586	1	7122	8	6399	13	6194	17	5812	7	9172	3	4637	19	7607	33	10131	18	8450	7	9538	17	6517	15	8007	15
28	BH 414351	4205	13	5291	15	7060	4	5539	37	4052	34	4700	32	5230	25	6885	23	5198	13	9819	11	9243	26	6669	21	8860	22	6741	14	7631	24

TABLE No. 4 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												NEPZ ZN 3														PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R
29	HKH 353	3234	29	4462	38	2363	41	5800	32	3121	41	4892	29	3796	41	3988	41	4630	20	6405	40	8125	37	3773	40	7437	35	6094	21	5779	39
30	LMH 1016	2609	40	5305	14	6966	6	5894	28	5405	25	6795	12	5236	23	7785	16	5450	12	10063	7	10654	10	6274	27	10289	11	5279	36	7971	17
31	INDAM-1122	3152	30	4758	28	5793	16	6850	15	6979	6	7526	6	5506	13	8134	14	2950	35	12785	1	11288	3	10813	1	10741	8	7449	4	9166	1
32	IMH 1603	3292	28	5584	8	6493	10	5215	39	4936	29	7598	5	5104	29	8472	10	1976	41	8749	20	10519	11	8749	6	11631	5	6018	22	8016	14
33	DAS-MH-310	2335	41	5728	4	6946	7	7158	5	5821	20	3579	38	5598	10	8214	12	3600	32	11577	2	11595	1	8264	9	8506	26	6380	18	8305	8
34	IMH 1527	4634	8	5241	17	5055	26	7123	7	8361	1	6893	10	6083	6	8186	13	6306	5	9329	16	10918	5	6579	22	10026	14	6994	10	8334	7
35	IMH 1533	3149	31	5240	18	5750	19	5828	31	6210	16	4407	35	5236	24	8383	11	2385	38	6872	38	8413	32	4990	36	8376	28	5477	33	6414	34
36	AH-7080	3774	20	4675	32	5845	15	6603	21	6172	17	3266	40	5414	18	4987	39	3021	34	8907	18	8514	29	6233	29	7197	36	4951	39	6259	37
37	MH 24	3856	18	5407	11	5969	14	5562	36	6791	8	6668	14	5517	12	7651	17	4837	15	7957	28	10841	7	6205	30	10974	6	8737	1	8172	9
38	HM-9 (Filler)	4025	15	4764	27	4524	34	5865	29	3862	37	3375	39	4608	40	5614	35	2688	36	7060	35	6814	40	4736	37	6801	39	5755	27	5638	40
	CHECKS																														
39	DHM 121 (BH 41009)(C	3086	34	5089	20	4799	28	6444	24	6641	9	6693	13	5212	26	8810	5	4818	16	9996	10	10004	19	6483	23	9020	20	6510	16	7949	19
40	CMH 08-292(C)	6463	2	4513	36	5255	24	7016	10	7415	3	7155	8	6132	5	8703	7	6668	1	10763	3	9912	22	7863	14	10441	10	7930	2	8897	3
41	BIO 9544(C)	4549	9	5869	3	6339	13	8597	1	7079	5	7653	4	6486	1	9299	2	5546	11	10045	8	9953	21	9727	3	12320	2	5748	28	8948	2
	Location Mean	**3967**		**5081**		**5551**		**6496**		**5598**		**5813**		**5338**		**7175**		**4505**		**8716**		**9560**		**6943**		**9131**		**6239**		**7467**	
	C.D. (5%)	1176		364		2013		1101		997		2133		1130		1525		778		1823		885		590		748		1736		1155	
	C.V. (%)	18.24		4.41		17.92		10.42		10.96		**22.58**		**-**		13.07		10.6		12.87		5.69		5.23		5.04		17.12		**-**	
	F (Prob)	0		0		0.001		0		0		0				0		0		0		0		0		0		0.001			
	Plot Size	6		4.8		5.6		4.8		4.8		4.8		-		6		6		4.8		4.8		4.8		4.8		6		-	
	AGRONOMY DATA																														
	Sowing Date	27-06		25-06		1-07		23-06		22-06		1-07		-		22-06		1-07		27-06		3-08		1-08		6-07		13-07		-	
	Harvest Date	20-10		18-10		18-10		3-10		4-10		19-10		-		21-10		25-10		30-10		9-12		17-11		20-10		13-11		-	
	Irrigation Nos	2		-		-		-		-		3		-		4		5		2		8		11		10		2		-	
	Ferilizer Applied N	120		120		120		120		120		130		-		200		200		150		150		250		250		120		-	
	Ferilizer Applied P	60		60		60		60		60		40		-		60		60		65		75		75		75		60		-	
	Ferilizer Applied K	40		60		40		40		60		30		-		50		50		65		40		75		75		40		-	

TABLE No. 4 **(Contd.)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												CWZ ZN 5 MEAN		OV'L MEAN	
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R				
1	LMH 616	4668	31	6034	4	8483	20	5086	29	9608	1	3040	7	6776	7	7121	18
2	IMH 1607	5802	20	5462	17	6853	37	4825	32	1870	41	2247	19	4962	37	6333	35
3	IMH 1606	5584	24	4480	36	6960	36	4935	31	5559	17	1910	26	5504	33	6515	29
4	IMH 1526	4484	33	4008	41	7072	34	5168	27	3708	35	2985	9	4888	38	6564	27
5	HKH 354	6387	11	5046	27	6621	39	3827	39	3733	34	1192	34	5123	34	6235	36
6	IMH 1609	4807	30	5365	19	7225	33	4951	30	5729	14	2018	24	5616	31	6385	32
7	DMRH 1419	7119	4	5611	13	9291	12	5341	25	5926	11	3881	2	6658	10	7405	10
8	LMH 916	7562	1	4752	32	7802	25	5869	19	5469	18	2666	13	6291	18	6609	26
9	LMH 816	5750	21	4405	38	8996	15	6782	7	4294	31	2147	23	6045	22	6932	22
10	IMH 1604	5875	19	4759	31	8035	22	6718	10	5895	12	1929	25	6256	19	7194	14
11	MH 23	6782	8	5558	15	6835	38	6885	4	5961	10	1048	38	6404	14	6941	21
12	IMH 1605	6941	6	5801	7	7585	28	6550	12	3897	33	2181	22	6155	21	6896	24
13	LMH 1116	6649	10	4932	28	9874	7	6618	11	5654	16	2276	18	6746	8	7162	16
14	IMH 1608	2995	40	4467	37	4559	41	3801	40	5053	28	677	40	4175	41	4784	41
15	EH-2906	5976	17	5407	18	11012	1	4219	36	7428	3	1578	32	6809	5	7014	19
16	LMH 716	5621	22	5168	23	9409	11	5794	20	8241	2	2357	16	6846	4	7129	17
17	VEH-16-1	2119	41	5091	24	7711	27	5729	21	3542	38	1123	36	4838	39	6015	37
18	IMH 1601	5360	26	4194	40	7234	32	6048	16	2539	40	1700	28	5075	35	7193	15
19	HKH 355	7278	3	5301	21	8970	17	4233	35	5697	15	2720	12	6296	17	6346	34
20	MMH 1403	6916	7	5630	12	8984	16	4266	34	5321	22	3001	8	6223	20	6373	33
21	HKH 356	6347	12	5168	22	7364	30	3970	38	5434	20	1091	37	5657	29	6013	38
22	KH-2001 Gold	3851	38	5775	8	9662	9	6973	3	7343	4	2619	14	6721	9	7907	1
23	IMH 1602	6034	16	4387	39	7734	26	5553	23	5059	27	2775	11	5753	27	6528	28
24	BH 414176	7478	2	6066	3	10516	2	5954	17	5824	13	2819	10	7167	1	7572	5
25	CCH 9999	6951	5	5939	5	9995	5	6746	9	6008	9	1606	31	7128	2	7474	6
26	LMH 1216	4249	34	5058	26	10354	3	5647	22	3438	39	4180	1	5749	28	7417	9
27	DMRH 1410	6652	9	5839	6	8080	21	6776	8	6564	7	3080	6	6782	6	7381	11
28	BH 414351	5618	23	4721	33	9243	13	5303	26	4431	30	991	39	5863	24	6902	23

TABLE No. 4 **(Contd.)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												CWZ ZN 5 MEAN	R	OV'L MEAN	R
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R				
29	HKH 353	4939	29	5078	25	7326	31	3982	37	4032	32	1160	35	5071	36	5425	40
30	LMH 1016	4493	32	6979	1	9933	6	6302	14	6974	5	2186	21	6936	3	7343	12
31	INDAM-1122	5248	27	5752	9	9866	8	6820	6	5284	23	2414	15	6594	11	7833	2
32	IMH 1603	5931	18	4909	29	8586	18	6977	2	5225	24	2312	17	6326	16	7240	13
33	DAS-MH-310	6101	15	4709	34	7513	29	7210	1	3686	36	639	41	5844	26	7424	8
34	IMH 1527	5052	28	6707	2	9205	14	6885	5	4789	29	3107	5	6528	12	7442	7
35	IMH 1533	6195	13	5314	20	7017	35	5403	24	5342	21	1661	29	5854	25	6426	30
36	AH-7080	5567	25	4794	30	7896	24	4568	33	5455	19	3582	3	5656	30	6406	31
37	MH 24	4053	37	5637	11	8507	19	5873	18	3554	37	1738	27	5525	32	6796	25
38	HM-9 (Filler)	4104	36	4573	35	5966	40	3485	41	5218	25	1283	33	4669	40	5691	39
	CHECKS																
39	DHM 121 (BH 41009)(C	6161	14	5485	16	8008	23	5109	28	5073	26	1659	30	5967	23	6952	20
40	CMH 08-292(C)	4110	35	5602	14	10167	4	6165	15	6278	8	3119	4	6464	13	7736	3
41	BIO 9544(C)	3413	39	5724	10	9513	10	6439	13	6688	6	2243	20	6355	15	7692	4
	Location Mean	**5542**		**5261**		**8341**		**5605**		**5288**		**2169**		**6007**		**6847**	
	C.D. (5%)	638		1295		1404		1205		912		1436		1091		1115	
	C.V. (%)	7.08		15.15		10.35		13.23		10.61		**40.73**		**-**		-	
	F (Prob)	0		0.005		0		0		0		0					
	Plot Size	4.8		4.8		6		6		2.4		6		-		-	
	AGRONOMY DATA																
	Sowing Date	2-07		27-06		17-07		7-07		19-07		23-06		-		-	
	Harvest Date	18-10		19-10		25-11		-		10-11		8-10		-		-	
	Irrigation Nos	1		-		-		-		-		-		-		-	
	Ferilizer Applied N	120		150		120		120		120		120		-		-	
	Ferilizer Applied P	90		80		60		60		60		60		-		-	
	Ferilizer Applied K	-		-		40		40		-		60		-		-	

TABLE No. 4 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DHM 121 (BH 41009)(C)												NWPZ ZN 2	
		NHZ(ZN 1)													
		BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
1	LMH 616	9.5		7.2		5.7		-		7.6		21.5		2		-		4.5		-	
2	IMH 1607	-		22		18.4		17.5		11.5		-		-		-		-		-	
3	IMH 1606	23.1		11.9		-		-		8		-		-		-		-		-	
4	IMH 1526	0.9		-		14.8		-		0.5		21.5		-		-		1.4		1	
5	HKH 354	-		17.3		-		-		2		-		-		-		-		-	
6	IMH 1609	1.3		25.2		4.3		-		10.3		14		-		-		-		-	
7	DMRH 1419	3.1		15.4		9.9		5.7		9.3		29.8		15.8		-		22.4		10.4	
8	LMH 916	-		-		-		13.7		-		11.5		6.2		-		-		-	
9	LMH 816	-		20.1		20.4		16		11.7		17.4		-		-		-		-	
10	IMH 1604	2.2		26.1		1		-		10.1		9.9		12.5		-		-		-	
11	MH 23	19.3		12.3		-		-		6.7		25		-		-		1.7		-	
12	IMH 1605	-		-		-		-		-		-		-		-		-		-	
13	LMH 1116	-		-		32.6		24.1		3		22.1		-		-		-		-	
14	IMH 1608	-		-		-		-		-		-		-		-		-		-	
15	EH-2906	-		-		17.3		-		-		34		-		-		5.7		1.6	
16	LMH 716	-		11.2		27.5		18.1		8.2		12		5.9		-		-		-	
17	VEH-16-1	-		-		-		-		-		-		17.1		-		-		-	
18	IMH 1601	3.8		1.6		20.6		42.3		7.9		28.2		3.6		-		10.8		5.7	
19	HKH 355	-		-		-		-		-		-		-		-		-		-	
20	MMH 1403	2		6.8		-		0.1		0.5		-		5.3		-		-		-	
21	HKH 356	-		-		-		-		-		-		0.2		-		-		-	
22	KH-2001 Gold	31.9		7		33.8		-		23.9		32		4.5		-		59.6		21.1	
23	IMH 1602	-		-		17.6		17.6		-		10.5		-		13.4		3.3		7.3	
24	BH 414176	-		-		10		-		-		21.5		-		11.5		21.1		12.8	
25	CCH 9999	6.1		16.2		18.5		-		13.1		20.4		5.7		-		32.7		6.4	
26	LMH 1216	18.5		19.6		30.7		-		22.4		34.1		12		-		5.9		2	
27	DMRH 1410	11.9		24.5		7.3		30.1		14.9		7.7		-		-		13.5		-	
28	BH 414351	-		-		-		-		-		20.7		4.3		10.1		-		8	

TABLE No. 4 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DHM 121 (BH 41009)(C)														NWPZ ZN 2	
								NHZ(ZN 1)									
		BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
29	HKH 353	-		-		-		-		-		-		-		6.1		-		-	
30	LMH 1016	-		24		29.3		-		14.9		7.2		-		-		20.9		2.6	
31	INDAM-1122	11.3		-		45.4		100.5		17		26.5		-		21.2		3.2		12.7	
32	IMH 1603	9.7		22.6		19.9		17.5		17.1		26		2.8		-		-		3.9	
33	DAS-MH-310	15.8		17.2		20.6		-		17.7		29.4		-		1.4		19		10.7	
34	IMH 1527	22.8		4.7		7.9		-		12.3		16.1		5.4		-		-		-	
35	IMH 1533	-		-		3.9		-		-		-		4.5		-		1.9		-	
36	AH-7080	-		8.3		-		-		-		-		3.9		-		20.5		-	
37	MH 24	-		-		9.9		23.3		-		17.2		-		-		-		-	
38	HM-9 (Filler)	-		16.4		-		-		-		-		-		-		6.8		-	
	CHECKS																				
39	DHM 121 (BH 41009)(C)	-		-		-		-		-		-		-		-		-		-	
40	CMH 08-292(C)	9.8		-		4.6		-		4.2		41.8		-		13		21		12.7	
41	BIO 9544(C)	10.7		1.2		-		-		3.3		24.7		-		-		37.2		5.2	

TABLE No. 4 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DHM 121 (BH 41009)(C) (NEPZ)ZN 3																						PZ / ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R
1	LMH 616	65.3		12.4		35.3		8.8		-		20.6		10.2		-		25.3		-		-		-		-		-		-	
2	IMH 1607	6.9		-		-		2.7		-		5.1		-		-		-		-		1.4		10.7		4.2		-		-	
3	IMH 1606	23.7		-		-		-		9.5		-		1.1		8.9		-		-		-		-		1		8.2		-	
4	IMH 1526	-		-		12.5		6		-		-		-		-		-		1.6		-		28.9		12.6		-		-	
5	HKH 354	52.6		-		8.8		1.7		-		-		-		-		-		-		-		-		-		-		-	
6	IMH 1609	-		-		-		6.5		-		-		-		-		-		-		-		-		-		-		-	
7	DMRH 1419	2		-		19		18.4		-		-		6.9		-		-		-		4.1		22.6		16.8		8.2		0.2	
8	LMH 916	0.4		18.3		46.8		-		-		-		9		-		-		-		-		7.8		-		10.2		-	
9	LMH 816	-		4.5		-		-		-		-		-		-		-		-		10.7		22.3		-		-		1.7	
10	IMH 1604	106		12.5		56.3		-		-		-		24.3		-		26.4		-		-		46.7		-		-		-	
11	MH 23	21.5		-		13.9		-		-		-		-		-		-		-		-		21.2		31.3		6.2		-	
12	IMH 1605	139.8		5.3		-		4.2		12.7		-		19		-		27.5		-		13.3		-		6.3		-		-	
13	LMH 1116	-		-		42.6		10.7		-		9.6		5.2		-		33		-		-		18.6		-		20.6		1.5	
14	IMH 1608	36.5		-		-		9.3		-		-		-		-		-		-		-		-		-		-		-	
15	EH-2906	33.3		3.4		-		-		-		2.1		-		-		15.3		7.5		2.2		-		11.3		-		0.5	
16	LMH 716	29.7		7.4		-		-		3.6		-		5.2		-		-		0.2		8.7		15.3		-		7.9		-	
17	VEH-16-1	97.4		-		39		-		-		-		1.9		-		-		-		-		-		-		-		-	
18	IMH 1601	-		-		34.6		1.6		-		-		3.7		-		25.3		-		4.8		27.4		40.8		6.7		10.1	
19	HKH 355	17.4		-		-		8.7		-		-		-		-		-		-		-		-		-		-		-	
20	MMH 1403	46.9		23.1		-		-		-		-		-		-		-		-		-		-		-		-		-	
21	HKH 356	37.7		0.3		5.1		-		-		-		-		-		-		-		-		-		-		-		-	
22	KH-2001 Gold	75.2		9.9		52.6		23.5		-		43.8		21.1		-		37.5		-		7		17.2		-		-		2.4	
23	IMH 1602	14.7		-		20.2		4.4		-		-		-		-		-		-		-		-		-		-		-	
24	BH 414176	21.3		6.6		19		6.6		-		-		4.3		-		32.8		1.9		1.5		24.8		9.8		5.7		6.8	
25	CCH 9999	17.3		-		-		31.1		-		-		2		-		-		-		7.9		60		34.8		-		2	
26	LMH 1216	25.5		-		20.3		3.9		-		25		5.6		1.8		4.9		-		2.4		35.7		20.3		11.2		8.9	
27	DMRH 1410	19.3		-		58.1		10.5		-		-		11.5		4.1		-		-		1.3		30.3		5.7		0.1		0.7	
28	BH 414351	36.3		4		47.1		-		-		-		0.3		-		7.9		-		-		2.9		-		3.5		-	

TABLE No. 4 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DHM 121 (BH 41009)(C) (NEPZ)ZN 3 DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	PZ ZN 4 MEAN	R
29	HKH 353	4.8		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
30	LMH 1016	-		4.3		45.1		-		-		1.5		0.5		-		13.1		0.7		6.5		-		14.1		-		0.3	
31	INDAM-1122	2.1		-		20.7		6.3		5.1		12.4		5.7		-		-		27.9		12.8		66.8		19.1		14.4		15.3	
32	IMH 1603	6.7		9.7		35.3		-		-		13.5		-		-		-		-		5.1		35		29		-		0.8	
33	DAS-MH-310	-		12.6		44.7		11.1		-		-		7.4		-		-		15.8		15.9		27.5		-		-		4.5	
34	IMH 1527	50.2		3		5.3		10.5		25.9		3		16.7		-		30.9		-		9.1		1.5		11.2		7.4		4.8	
35	IMH 1533	2		3		19.8		-		-		-		0.5		-		-		-		-		-		-		-		-	
36	AH-7080	22.3		-		21.8		2.5		-		-		3.9		-		-		-		-		-		-		-		-	
37	MH 24	24.9		6.3		24.4		-		2.3		-		5.9		-		0.4		-		8.4		-		21.7		34.2		2.8	
38	HM-9 (Filler)	30.4		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
	CHECKS																														
39	DHM 121 (BH 41009)(C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
40	CMH 08-292(C)	109.4		-		9.5		8.9		11.7		6.9		17.7		-		38.4		7.7		-		21.3		15.8		21.8		11.9	
41	BIO 9544(C)	47.4		15.3		32.1		33.4		6.6		14.3		24.5		5.5		15.1		0.5		-		50.1		36.6		-		12.6	

TABLE No. 4 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DHM 121 (BH 41009)(C															
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	(CWZ)ZN 5 MEAN	R	OV'L MEAN	R
1	LMH 616	-		10		5.9		-		89.4		83.2		13.5		2.4	
2	IMH 1607	-		-		-		-		-		35.5		-		-	
3	IMH 1606	-		-		-		-		9.6		15.1		-		-	
4	IMH 1526	-		-		-		1.2		-		79.9		-		-	
5	HKH 354	3.7		-		-		-		-		-		-		-	
6	IMH 1609	-		-		-		-		12.9		21.6		-		-	
7	DMRH 1419	15.5		2.3		16		4.5		16.8		133.9		11.6		6.5	
8	LMH 916	22.7		-		-		14.9		7.8		60.7		5.4		-	
9	LMH 816	-		-		12.3		32.7		-		29.4		1.3		-	
10	IMH 1604	-		-		0.3		31.5		16.2		16.3		4.8		3.5	
11	MH 23	10.1		1.3		-		34.8		17.5		-		7.3		-	
12	IMH 1605	12.7		5.8		-		28.2		-		31.5		3.1		-	
13	LMH 1116	7.9		-		23.3		29.6		11.5		37.2		13		3	
14	IMH 1608	-		-		-		-		-		-		-		-	
15	EH-2906	-		-		37.5		-		46.4		-		14.1		0.9	
16	LMH 716	-		-		17.5		13.4		62.5		42.1		14.7		2.6	
17	VEH-16-1	-		-		-		12.1		-		-		-		-	
18	IMH 1601	-		-		-		18.4		-		2.5		-		3.5	
19	HKH 355	18.1		-		12		-		12.3		64		5.5		-	
20	MMH 1403	12.3		2.6		12.2		-		4.9		80.9		4.3		-	
21	HKH 356	3		-		-		-		7.1		-		-		-	
22	KH-2001 Gold	-		5.3		20.6		36.5		44.7		57.9		12.6		13.7	
23	IMH 1602	-		-		-		8.7		-		67.3		-		-	
24	BH 414176	21.4		10.6		31.3		16.5		14.8		69.9		20.1		8.9	
25	CCH 9999	12.8		8.3		24.8		32.1		18.4		-		19.4		7.5	
26	LMH 1216	-		-		29.3		10.5		-		152		-		6.7	
27	DMRH 1410	8		6.5		0.9		32.6		29.4		85.7		13.7		6.2	
28	BH 414351	-		-		15.4		3.8		-		-		-		-	

TABLE No. 4 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DHM 121 (BH 41009)(C																			
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	(CWZ)ZN 5 MEAN	R	OV'L MEAN	R				
29	HKH 353	-		-		-		-		-		-		-		-					
30	LMH 1016	-		27.2		24		23.4		37.5		31.8		16.2		5.6					
31	INDAM-1122	-		4.9		23.2		33.5		4.2		45.5		10.5		12.7					
32	IMH 1603	-		-		7.2		36.6		3		39.4		6		4.1					
33	DAS-MH-310	-		-		-		41.1		-		-		-		6.8					
34	IMH 1527	-		22.3		14.9		34.8		-		87.3		9.4		7					
35	IMH 1533	0.5		-		-		5.8		5.3		0.1		-		-					
36	AH-7080	-		-		-		-		7.5		115.9		-		-					
37	MH 24	-		2.8		6.2		15		-		4.8		-		-					
38	HM-9 (Filler)	-		-		-		-		2.9		-		-		-					
	CHECKS																				
39	DHM 121 (BH 41009)(C)	-		-		-		-		-		-		-		-					
40	CMH 08-292(C)	-		2.1		27		20.7		23.8		88		8.3		11.3					
41	BIO 9544(C)	-		4.4		18.8		26		31.8		35.2		6.5		10.6					

TABLE No. 4 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-292(C)																NWPZ ZN 2	
								NHZ(ZN 1)											
		BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
1	LMH 616	-		9.6		1		-		3.2		-		32.6		-		-		-	
2	IMH 1607	-		24.7		13.2		60		7		-		24.6		-		-		-	
3	IMH 1606	12.1		14.4		-		0.5		3.7		-		-		-		-		-	
4	IMH 1526	-		-		9.7		-		-		-		26.5		-		-		-	
5	HKH 354	-		20		-		-		-		-		24.7		-		-		-	
6	IMH 1609	-		28		-		34.1		5.9		-		10.4		-		-		-	
7	DMRH 1419	-		17.9		5.1		43.9		4.9		-		50.5		-		1.1		-	
8	LMH 916	-		-		-		54.7		-		-		38		-		-		-	
9	LMH 816	-		22.8		15		57.9		7.2		-		23.5		-		-		-	
10	IMH 1604	-		28.9		-		-		5.6		-		46.2		-		-		-	
11	MH 23	8.7		14.8		-		-		2.4		-		4.1		-		-		-	
12	IMH 1605	-		-		-		-		-		-		16.1		-		-		-	
13	LMH 1116	-		1.9		26.7		68.9		-		-		29.3		-		-		-	
14	IMH 1608	-		-		-		-		-		-		8.1		-		-		-	
15	EH-2906	-		-		12.1		5.8		-		-		15.8		-		-		-	
16	LMH 716	-		13.6		21.8		60.7		3.8		-		37.7		-		-		-	
17	VEH-16-1	-		-		-		-		-		-		52.2		-		-		-	
18	IMH 1601	-		3.8		15.3		93.7		3.5		-		34.6		-		-		-	
19	HKH 355	-		1.7		-		-		-		-		21.1		-		-		-	
20	MMH 1403	-		9.2		-		36.2		-		-		36.9		-		-		-	
21	HKH 356	-		-		-		-		-		-		30.2		-		-		-	
22	KH-2001 Gold	20.2		9.3		27.9		-		18.9		-		35.9		-		31.8		7.4	
23	IMH 1602	-		-		12.4		60.1		-		-		28.6		0.3		-		-	
24	BH 414176	-		-		5.1		-		-		-		27.2		-		0		0	
25	CCH 9999	-		18.8		13.2		33		8.6		-		37.4		-		9.7		-	
26	LMH 1216	8		22.2		24.9		30.4		17.5		-		45.6		-		-		-	
27	DMRH 1410	1.9		27.3		2.6		77.1		10.3		-		22.9		-		-		-	
28	BH 414351	-		-		-		22.2		-		-		35.6		-		-		-	

TABLE No. 4 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-292(C)																NWPZ ZN 2	
		NHZ(ZN 1)																	
		BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
29	HKH 353	-		-		-		-		-		-		1.7		-		-		-	
30	LMH 1016	-		26.8		23.6		-		10.3		-		11		-		-		-	
31	INDAM-1122	1.4		1.5		38.9		172.9		12.3		-		26.6		7.2		-		0	
32	IMH 1603	-		25.4		14.6		59.9		12.4		-		33.6		-		-		-	
33	DAS-MH-310	5.5		19.8		15.3		-		12.9		-		29.3		-		-		-	
34	IMH 1527	11.8		7.1		3.1		12.9		7.8		-		37		-		-		-	
35	IMH 1533	-		-		-		-		-		-		35.9		-		-		-	
36	AH-7080	-		10.7		-		-		-		-		35.1		-		-		-	
37	MH 24	-		-		5.1		67.8		-		-		22.5		-		-		-	
38	HM-9 (Filler)	-		19		-		-		-		-		14.5		-		-		-	
	CHECKS																				
39	DHM 121 (BH 41009)(C)	-		2.2		-		36.1		-		-		30		-		-		-	
40	CMH 08-292(C)	-		-		-		-		-		-		-		-		-		-	
41	BIO 9544(C)	0.8		3.5		-		24		-		-		15.7		-		13.3		-	

TABLE No. 4 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-292(C)												NEPZ ZN 3												PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R
1	LMH 616	-		26.7		23.5		-		-		12.8		-		-		-		-		0.5		-		-		-		-	
2	IMH 1607	-		6		-		-		-		-		-		-		-		-		2.4		-		-		-		-	
3	IMH 1606	-		-		-		-		-		-		-		10.2		-		-		-		-		-		-		-	
4	IMH 1526	-		11.8		2.7		-		-		-		-		-		-		-		-		6.3		-		-		-	
5	HKH 354	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
6	IMH 1609	-		4.1		-		-		-		-		-		-		-		-		-		-		-		-		-	
7	DMRH 1419	-		9.4		8.7		8.7		-		-		-		-		-		-		5.1		1.1		0.9		-		-	
8	LMH 916	-		33.4		34.1		-		-		-		-		-		-		-		-		-		-		-		-	
9	LMH 816	-		17.8		-		-		-		-		-		1		-		-		11.7		0.8		-		-		-	
10	IMH 1604	-		26.8		42.7		-		-		-		5.7		-		-		-		-		20.9		-		-		-	
11	MH 23	-		11.5		4		-		-		-		-		-		-		-		-		-		13.5		-		-	
12	IMH 1605	14.5		18.8		-		-		0.9		-		1.1		-		-		-		14.4		-		-		-		-	
13	LMH 1116	-		2.8		30.2		1.7		-		2.5		-		-		-		-		-		-		-		-		-	
14	IMH 1608	-		12.5		-		0.4		-		-		-		-		-		-		-		-		-		-		-	
15	EH-2906	-		16.6		-		-		-		-		-		-		-		-		3.1		-		-		-		-	
16	LMH 716	-		21.1		-		-		-		-		-		-		-		-		9.7		-		-		-		-	
17	VEH-16-1	-		2.2		26.9		-		-		-		-		-		-		-		-		-		-		-		-	
18	IMH 1601	-		4.8		23		-		-		-		-		-		-		-		5.7		5		21.7		-		-	
19	HKH 355	-		2.7		-		-		-		-		-		-		-		-		-		-		-		-		-	
20	MMH 1403	-		38.8		-		-		-		-		-		-		-		-		-		-		-		-		-	
21	HKH 356	-		13.1		-		-		-		-		-		-		-		-		-		-		-		-		-	
22	KH-2001 Gold	-		23.9		39.4		13.4		-		34.5		2.9		-		-		-		8		-		-		-		-	
23	IMH 1602	-		-		9.7		-		-		-		-		-		-		-		-		-		-		-		-	
24	BH 414176	-		20.2		8.7		-		-		-		-		-		-		-		2.5		2.9		-		-		-	
25	CCH 9999	-		8.6		-		20.4		-		-		-		-		-		-		8.9		31.9		16.5		-		-	
26	LMH 1216	-		5.2		9.9		-		-		17		-		3		-		-		3.3		11.9		3.9		-		-	
27	DMRH 1410	-		-		44.3		1.5		-		-		-		5.4		-		-		2.2		7.5		-		-		-	
28	BH 414351	-		17.2		34.3		-		-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 4 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-292(C)												NEPZ ZN 3 MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	PZ ZN 4 MEAN	R
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R																		
29	HKH 353	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
30	LMH 1016	-		17.6		32.6		-		-		-		-		-		-		-		7.5		-		-		-		-	
31	INDAM-1122	-		5.4		10.2		-		-		5.2		-		-		-		18.8		13.9		37.5		2.9		-		3	
32	IMH 1603	-		23.7		23.5		-		-		6.2		-		-		-		-		6.1		11.3		11.4		-		-	
33	DAS-MH-310	-		26.9		32.2		2		-		-		-		-		-		7.6		17		5.1		-		-		-	
34	IMH 1527	-		16.1		-		1.5		12.8		-		-		-		-		-		10.1		-		-		-		-	
35	IMH 1533	-		16.1		9.4		-		-		-		-		-		-		-		-		-		-		-		-	
36	AH-7080	-		3.6		11.2		-		-		-		-		-		-		-		-		-		-		-		-	
37	MH 24	-		19.8		13.6		-		-		-		-		-		-		-		9.4		-		5.1		10.2		-	
38	HM-9 (Filler)	-		5.6		-		-		-		-		-		-		-		-		-		-		-		-		-	
	CHECKS																														
39	DHM 121 (BH 41009)(C)	-		12.8		-		-		-		-		-		1.2		-		-		0.9		-		-		-		-	
40	CMH 08-292(C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
41	BIO 9544(C)	-		30		20.6		22.5		-		7		5.8		6.8		-		-		0.4		23.7		18		-		0.6	

TABLE No. 4 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-292(C) UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	LMH 616	13.6		7.7		-		-		53		-		4.8		-	
2	IMH 1607	41.2		-		-		-		-		-		-		-	
3	IMH 1606	35.9		-		-		-		-		-		-		-	
4	IMH 1526	9.1		-		-		-		-		-		-		-	
5	HKH 354	55.4		-		-		-		-		-		-		-	
6	IMH 1609	17		-		-		-		-		-		-		-	
7	DMRH 1419	73.2		0.2		-		-		-		24.4		3		-	
8	LMH 916	84		-		-		-		-		-		-		-	
9	LMH 816	39.9		-		-		10		-		-		-		-	
10	IMH 1604	43		-		-		9		-		-		-		-	
11	MH 23	65		-		-		11.7		-		-		-		-	
12	IMH 1605	68.9		3.6		-		6.3		-		-		-		-	
13	LMH 1116	61.8		-		-		7.4		-		-		4.4		-	
14	IMH 1608	-		-		-		-		-		-		-		-	
15	EH-2906	45.4		-		8.3		-		18.3		-		5.3		-	
16	LMH 716	36.8		-		-		-		31.3		-		5.9		-	
17	VEH-16-1	-		-		-		-		-		-		-		-	
18	IMH 1601	30.4		-		-		-		-		-		-		-	
19	HKH 355	77.1		-		-		-		-		-		-		-	
20	MMH 1403	68.3		0.5		-		-		-		-		-		-	
21	HKH 356	54.4		-		-		-		-		-		-		-	
22	KH-2001 Gold	-		3.1		-		13.1		17		-		4		2.2	
23	IMH 1602	46.8		-		-		-		-		-		-		-	
24	BH 414176	82		8.3		3.4		-		-		-		10.9		-	
25	CCH 9999	69.1		6		-		9.4		-		-		10.3		-	
26	LMH 1216	3.4		-		1.8		-		-		34		-		-	
27	DMRH 1410	61.9		4.2		-		9.9		4.5		-		4.9		-	
28	BH 414351	36.7		-		-		-		-		-		-		-	

TABLE No. 4 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-292(C) UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
29	HKH 353	20.2		-		-		-		-		-		-		-	
30	LMH 1016	9.3		24.6		-		2.2		11.1		-		7.3		-	
31	INDAM-1122	27.7		2.7		-		10.6		-		-		2		1.3	
32	IMH 1603	44.3		-		-		13.2		-		-		-		-	
33	DAS-MH-310	48.5		-		-		17		-		-		-		-	
34	IMH 1527	22.9		19.7		-		11.7		-		-		1		-	
35	IMH 1533	50.7		-		-		-		-		-		-		-	
36	AH-7080	35.5		-		-		-		-		14.8		-		-	
37	MH 24	-		0.6		-		-		-		-		-		-	
38	HM-9 (Filler)	-		-		-		-		-		-		-		-	
	CHECKS																
39	DHM 121 (BH 41009)(C)	49.9		-		-		-		-		-		-		-	
40	CMH 08-292(C)	-		-		-		-		-		-		-		-	
41	BIO 9544(C)	-		2.2		-		4.5		6.5		-		-		-	

TABLE No. 4 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9544(C)														NWPZ ZN 2	
								NHZ(ZN 1)									
		BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
1	LMH 616	-		5.9		9.6		-		4.1		-		14.6		-		-		-	
2	IMH 1607	-		20.5		22.9		29.1		8		-		7.8		5		-		-	
3	IMH 1606	11.2		10.5		-		-		4.6		-		-		-		-		-	
4	IMH 1526	-		-		19.1		-		-		-		9.3		11		-		-	
5	HKH 354	-		15.9		-		-		-		-		7.8		0.6		-		-	
6	IMH 1609	-		23.6		8.2		8.1		6.8		-		-		-		-		-	
7	DMRH 1419	-		13.9		14.1		16.1		5.8		4.1		30.1		6.5		-		4.9	
8	LMH 916	-		-		-		24.8		-		-		19.3		-		-		-	
9	LMH 816	-		18.6		24.9		27.4		8.1		-		6.8		-		-		-	
10	IMH 1604	-		24.5		4.8		-		6.5		-		26.4		-		-		-	
11	MH 23	7.8		10.9		-		-		3.3		0.2		-		1.1		-		-	
12	IMH 1605	-		-		0.9		-		-		-		0.4		-		-		-	
13	LMH 1116	-		-		37.6		36.3		-		-		11.8		-		-		-	
14	IMH 1608	-		-		-		-		-		-		-		1.2		-		-	
15	EH-2906	-		-		21.8		-		-		7.4		0.1		6.9		-		-	
16	LMH 716	-		9.8		32.3		29.7		4.7		-		19		-		-		-	
17	VEH-16-1	-		-		-		-		-		-		31.6		0.1		-		-	
18	IMH 1601	-		0.3		25.1		56.2		4.4		2.8		16.4		10.1		-		0.4	
19	HKH 355	-		-		-		-		-		-		4.7		7.4		-		-	
20	MMH 1403	-		5.5		-		9.9		-		-		18.4		1.8		-		-	
21	HKH 356	-		-		-		-		-		-		12.6		11.1		-		-	
22	KH-2001 Gold	19.2		5.6		38.8		-		19.9		5.9		17.5		20		16.3		15.1	
23	IMH 1602	-		-		22		29.2		-		-		11.2		37.9		-		1.9	
24	BH 414176	-		-		14.1		-		-		-		10		35.6		-		7.2	
25	CCH 9999	-		14.8		22.9		7.3		9.5		-		18.8		-		-		1.1	
26	LMH 1216	7.1		18.1		35.6		5.2		18.5		7.5		25.9		-		-		-	
27	DMRH 1410	1.1		23		11.4		42.9		11.2		-		6.3		2.3		-		-	
28	BH 414351	-		-		3.7		-		-		-		17.2		33.9		-		2.6	

TABLE No. 4 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9544(C)														NWPZ ZN 2	
								NHZ(ZN 1)									
		BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
29	HKH 353	-		-		-		-		-		-		-		29		-		-	
30	LMH 1016	-		22.5		34.2		-		11.2		-		-		19.6		-		-	
31	INDAM-1122	0.5		-		50.8		120.2		13.2		1.4		9.5		47.4		-		7.1	
32	IMH 1603	-		21.1		24.5		29		13.3		1		15.5		15		-		-	
33	DAS-MH-310	4.7		15.7		25.2		-		13.9		3.7		11.8		23.3		-		5.2	
34	IMH 1527	10.9		3.4		12		-		8.7		-		18.4		-		-		-	
35	IMH 1533	-		-		7.9		-		-		-		17.5		12		-		-	
36	AH-7080	-		6.9		-		-		-		-		16.8		1.5		-		-	
37	MH 24	-		-		14.1		35.4		-		-		5.9		-		-		-	
38	HM-9 (Filler)	-		15		3.5		-		-		-		-		-		-		-	
	CHECKS																				
39	DHM 121 (BH 41009)(C)	-		-		3.8		9.8		-		-		12.4		21.6		-		-	
40	CMH 08-292(C)	-		-		8.6		-		0.9		13.7		-		37.5		-		7.1	
41	BIO 9544(C)	-		-		-		-		-		-		-		-		-		-	

TABLE No. 4 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9544(C)												NEPZ ZN 3 MEAN	R										PZ ZN 4 MEAN	R
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R			HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU		
1	LMH 616	12.1		-		2.4		-		-		5.5		-		-		8.8		-		0.1		-		-		1.2		-	
2	IMH 1607	-		-		-		-		-		-		-		-		-		-		1.9		-		-		-		-	
3	IMH 1606	-		-		-		-		2.8		-		-		3.2		-		-		-		-		-		22.6		-	
4	IMH 1526	-		-		-		-		-		-		-		-		-		1.1		-		-		-		1.5		-	
5	HKH 354	3.5		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
6	IMH 1609	-		-		-		-		-		-		-		-		-		-		-		-		-		2.1		-	
7	DMRH 1419	-		-		-		-		-		-		-		-		-		-		4.6		-		-		22.5		-	
8	LMH 916	-		2.6		11.2		-		-		-		-		-		-		-		-		-		-		24.8		-	
9	LMH 816	-		-		-		-		-		-		-		-		-		-		11.3		-		-		12.5		-	
10	IMH 1604	39.8		-		18.3		-		-		-		-		-		9.8		-		-		-		-		-		-	
11	MH 23	-		-		-		-		-		-		-		-		-		-		-		-		-		20.3		-	
12	IMH 1605	62.7		-		-		-		5.7		-		-		-		10.8		-		13.9		-		-		9.6		-	
13	LMH 1116	-		-		8		-		-		-		-		-		15.5		-		-		-		-		36.6		-	
14	IMH 1608	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
15	EH-2906	-		-		-		-		-		-		-		-		0.1		7		2.7		-		-		9.6		-	
16	LMH 716	-		-		-		-		-		-		-		-		-		-		9.3		-		-		22.2		-	
17	VEH-16-1	33.9		-		5.2		-		-		-		-		-		-		-		-		-		-		-		-	
18	IMH 1601	-		-		1.9		-		-		-		-		-		8.8		-		5.3		-		3.1		20.9		-	
19	HKH 355	-		-		-		-		-		-		-		-		-		-		-		-		-		4.5		-	
20	MMH 1403	-		6.8		-		-		-		-		-		-		-		-		-		-		-		-		-	
21	HKH 356	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
22	KH-2001 Gold	18.8		-		15.5		-		-		25.8		-		-		19.5		-		7.6		-		-		-		-	
23	IMH 1602	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
24	BH 414176	-		-		-		-		-		-		-		-		15.3		1.4		2		-		-		19.7		-	
25	CCH 9999	-		-		-		-		-		-		-		-		-		-		8.4		6.6		-		-		-	
26	LMH 1216	-		-		-		-		-		9.3		-		-		-		-		2.9		-		-		25.9		-	
27	DMRH 1410	-		-		19.7		-		-		-		-		-		-		-		1.8		-		-		13.4		-	
28	BH 414351	-		-		11.4		-		-		-		-		-		-		-		-		-		-		17.3		-	

TABLE No. 4 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9544(C)											NEPZ ZN 3												PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	RAHU	R	MEAN	R
29	HKH 353	-		-		-		-		-		-		-		-		-		-		-		-		-		6		-	
30	LMH 1016	-		-		9.9		-		-		-		-		-		-		0.2		7		-		-		-		-	
31	INDAM-1122	-		-		-		-		-		-		-		-		-		27.3		13.4		11.2		-		29.6		2.4	
32	IMH 1603	-		-		2.4		-		-		-		-		-		-		-		5.7		-		-		4.7		-	
33	DAS-MH-310	-		-		9.6		-		-		-		-		-		-		15.3		16.5		-		-		11		-	
34	IMH 1527	1.9		-		-		-		18.1		-		-		-		13.7		-		9.7		-		-		21.7		-	
35	IMH 1533	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
36	AH-7080	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
37	MH 24	-		-		-		-		-		-		-		-		-		-		8.9		-		-		52		-	
38	HM-9 (Filler)	-		-		-		-		-		-		-		-		-		-		-		-		-		0.1		-	
	CHECKS																														
39	DHM 121 (BH 41009)(C)	-		-		-		-		-		-		-		-		-		-		0.5		-		-		13.3		-	
40	CMH 08-292(C)	42.1		-		-		-		4.7		-		-		-		20.2		7.1		-		-		-		38		-	
41	BIO 9544(C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 4 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9544(C) UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	LMH 616	36.8		5.4		-		-		43.7		35.5		6.6		-	
2	IMH 1607	70		-		-		-		-		0.2		-		-	
3	IMH 1606	63.6		-		-		-		-		-		-		-	
4	IMH 1526	31.4		-		-		-		-		33.1		-		-	
5	HKH 354	87.1		-		-		-		-		-		-		-	
6	IMH 1609	40.8		-		-		-		-		-		-		-	
7	DMRH 1419	108.6		-		-		-		-		73		4.8		-	
8	LMH 916	121.5		-		-		-		-		18.8		-		-	
9	LMH 816	68.5		-		-		5.3		-		-		-		-	
10	IMH 1604	72.1		-		-		4.3		-		-		-		-	
11	MH 23	98.7		-		-		6.9		-		-		0.8		-	
12	IMH 1605	103.3		1.3		-		1.7		-		-		-		-	
13	LMH 1116	94.8		-		3.8		2.8		-		1.5		6.1		-	
14	IMH 1608	-		-		-		-		-		-		-		-	
15	EH-2906	75.1		-		15.8		-		11.1		-		7.1		-	
16	LMH 716	64.7		-		-		-		23.2		5.1		7.7		-	
17	VEH-16-1	-		-		-		-		-		-		-		-	
18	IMH 1601	57		-		-		-		-		-		-		-	
19	HKH 355	113.2		-		-		-		-		21.3		-		-	
20	MMH 1403	102.6		-		-		-		-		33.8		-		-	
21	HKH 356	85.9		-		-		-		-		-		-		-	
22	KH-2001 Gold	12.8		0.9		1.6		8.3		9.8		16.7		5.7		2.8	
23	IMH 1602	76.8		-		-		-		-		23.7		-		-	
24	BH 414176	119.1		6		10.5		-		-		25.7		12.8		-	
25	CCH 9999	103.6		3.8		5.1		4.8		-		-		12.2		-	
26	LMH 1216	24.5		-		8.8		-		-		86.3		-		-	
27	DMRH 1410	94.9		2		-		5.2		-		37.3		6.7		-	
28	BH 414351	64.6		-		-		-		-		-		-		-	

TABLE No. 4 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9544(C) UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
29	HKH 353	44.7		-		-		-		-		-		-		-	
30	LMH 1016	31.6		21.9		4.4		-		4.3		-		9.1		-	
31	INDAM-1122	53.7		0.5		3.7		5.9		-		7.6		3.8		1.8	
32	IMH 1603	73.8		-		-		8.4		-		3.1		-		-	
33	DAS-MH-310	78.7		-		-		12		-		-		-		-	
34	IMH 1527	48		17.2		-		6.9		-		38.5		2.7		-	
35	IMH 1533	81.5		-		-		-		-		-		-		-	
36	AH-7080	63.1		-		-		-		-		59.7		-		-	
37	MH 24	18.8		-		-		-		-		-		-		-	
38	HM-9 (Filler)	20.2		-		-		-		-		-		-		-	
	CHECKS																
39	DHM 121 (BH 41009)(C)	80.5		-		-		-		-		-		-		-	
40	CMH 08-292(C)	20.4		-		6.9		-		-		39		1.7		0.6	
41	BIO 9544(C)	-		-		-		-		-		-		-		-	

TABLE No. 4 (Contd.)

		MOISTURE % AT HARVEST				NHZ					NWPZ							NEPZ
						ZN 1					ZN 2							ZN 3
S.No.	PEDIGREE	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	LMH 616	17.4	23.8	38.2	11.3	22.6	14.9	22.6	14.0	28.0	19.9	18.0	18.3	23.6	29.3	24.8	29.2	23.8
2	IMH 1607	19.7	23.2	33.8	18.9	23.9	14.7	22.9	14.3	27.2	19.8	18.0	18.4	23.6	28.6	22.4	28.7	23.3
3	IMH 1606	19.7	23.9	37.9	17.9	24.8	15.6	23.2	15.0	27.9	20.4	17.1	18.5	24.5	29.6	23.7	25.0	23.1
4	IMH 1526	20.7	23.0	34.9	14.4	23.2	14.8	23.7	15.0	28.1	20.4	18.4	18.6	23.9	29.3	24.9	31.2	24.4
5	HKH 354	18.3	25.0	32.3	10.5	21.5	13.9	24.5	13.7	22.6	18.7	17.6	18.9	23.9	25.3	23.9	25.8	22.6
6	IMH 1609	18.3	24.0	38.0	17.3	24.4	15.8	22.8	15.7	26.6	20.2	16.7	18.9	23.9	29.7	25.3	26.3	23.4
7	DMRH 1419	20.1	24.0	36.0	17.3	24.3	16.9	22.4	16.7	25.7	20.4	18.6	18.9	22.9	26.3	25.0	29.0	23.4
8	LMH 916	17.7	23.6	35.6	16.7	23.4	14.7	22.0	16.0	28.0	20.2	19.1	19.9	24.1	29.8	23.9	27.2	24.0
9	LMH 816	19.1	23.5	34.5	17.2	23.6	13.6	22.1	13.7	27.6	19.2	17.7	18.3	23.9	28.6	24.8	25.2	23.1
10	IMH 1604	20.0	24.1	31.3	14.2	22.4	13.3	23.4	14.0	26.9	19.4	18.4	18.9	24.0	28.2	23.4	25.9	23.1
11	MH 23	19.0	23.6	35.7	13.0	22.8	14.2	23.4	13.7	27.8	19.7	16.9	19.0	24.3	30.0	22.7	36.6	24.9
12	IMH 1605	17.6	23.6	36.6	14.5	23.1	14.7	23.4	13.7	28.2	20.0	17.7	19.6	22.9	29.7	26.7	27.9	24.1
13	LMH 1116	20.3	23.5	37.6	17.9	24.8	13.8	24.1	16.3	24.0	19.6	19.8	18.2	24.8	26.6	24.0	26.7	23.3
14	IMH 1608	20.4	24.0	35.8	10.7	22.7	16.0	25.1	15.0	27.7	20.9	15.3	19.8	25.8	30.4	24.3	27.2	23.8
15	EH-2906	20.1	23.5	37.7	14.0	23.8	15.1	24.9	16.7	28.7	21.4	18.1	19.8	24.0	28.6	25.3	26.9	23.8
16	LMH 716	17.9	23.5	35.1	18.2	23.7	16.2	22.9	16.0	27.8	20.7	19.4	18.9	24.0	26.3	24.1	28.5	23.5
17	VEH-16-1	19.7	23.6	38.4	17.9	24.9	15.3	22.6	15.0	28.9	20.4	18.3	19.6	24.3	28.5	23.2	25.0	23.1
18	IMH 1601	19.9	23.5	36.0	18.3	24.4	17.5	21.9	14.3	29.0	20.7	19.8	19.4	25.8	29.7	23.0	28.5	24.4
19	HKH 355	17.7	23.1	37.5	14.7	23.2	14.2	23.3	15.3	27.9	20.2	16.7	18.2	24.0	27.2	22.0	26.0	22.3
20	MMH 1403	19.9	23.1	37.7	13.4	23.5	17.8	23.0	15.3	27.9	21.0	18.2	19.5	25.4	30.8	24.1	27.9	24.3
21	HKH 356	17.8	23.2	32.1	14.7	21.9	14.3	23.6	14.0	26.4	19.6	18.5	19.3	23.8	26.9	23.1	26.8	23.1
22	KH-2001 Gold	17.8	24.5	36.9	13.4	23.1	19.1	23.9	15.0	28.7	21.7	21.6	18.9	24.0	30.2	24.7	33.0	25.4
23	IMH 1602	19.7	23.1	32.2	12.4	21.8	14.5	23.3	16.3	27.6	20.4	16.7	18.2	26.3	26.8	22.9	26.6	22.9
24	BH 414176	17.9	23.4	34.7	13.7	22.4	13.9	22.6	14.3	24.4	18.8	17.9	19.4	22.8	28.1	25.7	24.8	23.1
25	CCH 9999	21.3	23.5	35.8	16.1	24.2	14.7	23.9	13.0	28.8	20.1	18.0	19.2	23.8	26.4	26.0	30.0	23.9
26	LMH 1216	19.9	23.1	34.0	17.4	23.6	14.2	22.7	13.3	27.9	19.5	17.4	19.3	24.3	29.1	25.0	25.9	23.5
27	DMRH 1410	20.1	24.0	33.5	17.6	23.8	16.5	23.6	13.3	26.8	20.0	17.6	18.6	23.9	27.4	25.4	25.9	23.1
28	BH 414351	18.6	23.8	36.8	12.9	23.0	16.2	23.8	14.0	27.0	20.2	17.8	18.6	24.1	29.4	24.2	29.0	23.8

TABLE No. 4 (Contd.)

S.No.	PEDIGREE	MOISTURE % AT HARVEST				NHZ ZN 1					NWPZ ZN 2							NEPZ ZN 3
		BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
29	HKH 353	20.5	23.7	36.4	10.0	22.6	14.7	23.8	14.7	27.4	20.1	17.0	18.9	24.2	27.3	22.9	25.2	22.6
30	LMH 1016	20.5	25.1	37.6	14.3	24.3	16.6	22.6	15.3	27.3	20.5	17.2	18.9	23.0	29.5	24.1	30.0	23.8
31	INDAM-1122	17.7	24.0	36.2	17.8	23.9	21.2	23.7	16.7	28.4	22.5	18.5	19.3	25.9	31.4	24.8	31.3	25.2
32	IMH 1603	17.4	25.0	36.5	17.4	24.0	17.8	24.2	17.3	28.2	21.9	17.2	19.3	24.0	28.5	26.7	28.0	23.9
33	DAS-MH-310	18.4	24.0	36.2	11.1	22.4	16.1	24.3	14.7	23.1	19.6	17.7	18.5	23.8	28.4	23.9	28.0	23.4
34	IMH 1527	17.3	24.0	38.4	17.4	24.3	14.5	24.7	15.0	28.1	20.6	17.2	18.8	23.8	29.6	27.1	28.5	24.1
35	IMH 1533	17.6	23.5	35.8	14.0	22.7	14.7	23.7	14.3	28.2	20.2	16.4	18.3	23.0	29.4	22.8	25.3	22.5
36	AH-7080	17.9	24.3	36.6	17.0	23.9	15.4	23.1	13.3	24.2	19.0	17.3	18.8	23.9	28.6	24.1	26.8	23.2
37	MH 24	19.0	24.1	31.1	13.1	21.8	13.9	22.9	14.0	28.9	19.9	18.8	18.9	24.2	28.2	25.8	29.2	24.2
38	HM-9 (Filler)	19.2	23.8	31.5	10.4	21.2	13.8	24.4	13.7	27.0	19.7	17.0	18.3	25.0	27.4	22.1	28.1	23.0
	CHECKS																	
39	DHM 121 (BH 41009)(C)	19.8	23.1	37.8	17.3	24.5	15.8	22.5	15.0	23.9	19.3	17.4	18.9	24.3	30.7	23.6	27.6	23.7
40	CMH 08-292(C)	17.3	23.3	36.3	16.4	23.3	17.7	23.2	14.7	27.4	20.7	18.7	19.0	23.5	28.9	27.0	31.3	24.7
41	BIO 9544(C)	19.1	23.8	35.9	17.8	24.1	18.3	23.9	12.3	29.1	20.9	18.6	18.6	23.2	30.3	25.1	29.8	24.3
	Loc. Mean	**19.0**	**23.7**	**35.7**	**15.1**	**23.4**	**15.5**	**23.4**	**14.7**	**27.2**	**20.2**	**17.9**	**18.9**	**24.1**	**28.6**	**24.3**	**28.0**	**23.6**
	C.D. (5%)	0.52	0.65	1.61	3.82	2.44	1.79	0.31	2.10	1.38	1.80	1.59	0.00	1.81	1.09	1.30	5.83	1.50
	C.V. (%)	1.70	1.70	2.78	15.55	7.45	7.10	0.83	8.76	3.13	6.37	5.46	0.00	3.71	2.35	3.28	12.82	5.58
	F (Prob)	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.05	0.00	0.00	0.12	0.01

TABLE No. 4 (Contd.)

		MOISTURE % AT HARVEST							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	LMH 616	24.2	24.1	18.2	17.7	15.9	24.8	13.5	19.7	20.8	17.2	17.3	15.4	15.1	23.9	18.3	20.8
2	IMH 1607	22.1	24.8	18.2	17.7	16.8	22.5	14.1	19.4	20.4	17.2	13.7	16.1	16.0	23.2	17.8	20.6
3	IMH 1606	24.8	24.4	18.8	19.4	16.5	24.4	15.7	20.6	16.6	17.4	14.5	16.9	15.4	25.6	17.7	21.1
4	IMH 1526	24.2	22.0	18.8	19.2	17.4	24.6	14.4	20.1	20.4	19.0	12.9	15.0	15.2	25.8	18.1	21.1
5	HKH 354	21.5	22.1	16.5	18.4	16.0	19.8	13.0	18.2	20.1	17.6	13.3	17.5	15.7	21.3	17.6	19.6
6	IMH 1609	26.1	22.2	17.5	18.3	16.0	26.0	14.0	20.0	20.1	16.9	14.1	15.7	15.3	25.5	17.9	21.0
7	DMRH 1419	24.9	21.4	17.0	16.2	16.8	22.1	13.5	18.8	17.3	18.0	15.2	14.9	14.4	23.3	17.2	20.5
8	LMH 916	22.3	23.0	18.7	19.2	15.7	23.0	13.5	19.3	21.3	16.6	12.6	16.9	16.9	24.4	18.1	20.8
9	LMH 816	23.5	22.8	14.2	19.0	16.5	22.5	13.0	18.7	21.0	15.8	16.7	16.3	16.8	24.0	18.4	20.4
10	IMH 1604	24.7	23.6	15.6	18.6	16.7	25.9	14.2	19.9	21.3	16.1	13.9	15.8	14.4	25.2	17.8	20.4
11	MH 23	24.6	23.9	16.9	18.9	16.1	21.5	13.4	19.3	19.6	16.5	14.6	14.3	15.1	27.6	17.9	20.8
12	IMH 1605	25.4	24.5	15.8	18.7	16.3	25.5	15.0	20.2	20.3	16.3	14.3	16.5	15.4	24.9	18.0	20.9
13	LMH 1116	23.6	21.4	14.9	18.6	16.2	21.5	12.9	18.4	20.5	16.0	13.6	17.0	15.3	24.4	17.8	20.5
14	IMH 1608	27.5	22.7	17.4	18.6	17.0	24.6	13.3	20.1	17.2	16.8	12.3	14.5	16.3	23.9	16.8	20.7
15	EH-2906	24.9	21.1	16.1	19.2	15.8	23.1	13.4	19.1	18.1	17.8	12.6	15.1	16.1	27.6	17.9	20.9
16	LMH 716	23.8	22.9	15.6	18.3	16.5	21.3	13.1	18.8	15.2	17.4	15.6	16.4	15.1	24.2	17.3	20.5
17	VEH-16-1	24.4	21.2	16.0	18.5	16.4	22.0	13.7	18.9	21.1	16.9	14.0	17.3	16.1	24.5	18.3	20.8
18	IMH 1601	24.0	23.0	17.6	19.2	16.5	23.3	17.4	20.1	17.5	17.0	16.0	14.3	15.7	25.1	17.6	21.2
19	HKH 355	22.8	22.1	18.2	17.5	16.4	22.3	13.2	18.9	15.4	17.5	13.9	17.0	14.4	24.0	17.0	20.1
20	MMH 1403	23.1	22.3	16.3	19.0	16.8	26.2	13.4	19.6	20.3	17.3	18.1	16.3	15.1	23.7	18.5	21.2
21	HKH 356	22.6	22.6	20.5	18.4	16.5	23.0	13.5	19.6	20.1	16.8	13.7	14.5	14.9	25.1	17.5	20.2
22	KH-2001 Gold	25.3	22.8	20.4	19.1	17.6	24.5	15.4	20.7	21.3	17.0	17.7	16.6	16.7	27.3	19.4	22.0
23	IMH 1602	24.1	21.8	17.9	17.8	17.2	25.1	13.3	19.6	16.2	16.7	14.8	16.7	14.8	24.7	17.3	20.3
24	BH 414176	23.8	20.6	15.7	18.6	17.0	21.1	14.6	18.8	15.2	18.5	13.7	14.8	15.3	23.9	16.9	19.9
25	CCH 9999	23.8	20.3	17.0	18.5	16.3	24.4	13.7	19.1	16.2	17.9	12.6	15.4	15.2	25.4	17.1	20.6
26	LMH 1216	24.2	20.1	18.1	18.5	16.0	24.6	13.6	19.3	20.1	16.1	14.6	16.1	16.7	22.1	17.6	20.5
27	DMRH 1410	23.8	22.7	15.1	19.3	16.8	21.8	14.4	19.1	20.4	16.4	13.4	14.3	16.0	23.0	17.2	20.4
28	BH 414351	22.3	21.7	18.9	17.6	16.5	24.2	15.8	19.6	20.9	16.3	14.0	15.5	15.3	26.9	18.1	20.8

TABLE No. 4 (Contd.)

S.No.	PEDIGREE	MOISTURE % AT HARVEST HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
29	HKH 353	22.3	23.4	15.1	17.2	17.5	23.1	14.1	19.0	20.3	17.7	14.3	14.2	16.7	22.8	17.7	20.2
30	LMH 1016	24.2	22.1	19.6	19.2	17.0	23.8	14.2	20.0	18.7	16.7	13.9	15.4	16.4	26.3	17.9	21.1
31	INDAM-1122	26.7	23.7	21.4	19.4	16.3	24.1	16.3	21.1	20.3	16.6	15.4	14.5	15.1	26.8	18.1	22.0
32	IMH 1603	25.5	24.8	17.9	17.8	17.1	23.2	14.6	20.1	18.0	17.2	15.3	14.6	16.3	24.8	17.7	21.3
33	DAS-MH-310	24.4	19.5	17.1	18.7	17.0	24.1	12.9	19.1	16.2	16.6	12.8	15.8	15.7	26.9	17.3	20.2
34	IMH 1527	24.9	23.2	16.4	19.3	16.2	26.9	13.8	20.1	20.3	16.3	13.5	17.0	16.1	25.3	18.1	21.2
35	IMH 1533	24.6	27.6	15.3	18.7	17.0	25.5	14.1	20.4	16.0	17.3	14.5	16.5	15.3	24.1	17.3	20.5
36	AH-7080	21.0	17.5	16.6	18.4	16.6	24.1	13.2	18.2	15.6	16.8	13.2	14.8	16.0	24.7	16.8	20.0
37	MH 24	25.1	22.9	12.9	18.7	16.9	22.8	13.9	19.0	20.3	16.8	11.7	16.8	15.2	25.4	17.7	20.4
38	HM-9 (Filler)	24.2	21.5	17.4	15.3	17.3	22.1	13.7	18.8	15.5	16.9	11.9	14.0	16.1	21.1	15.9	19.6
	CHECKS																
39	DHM 121 (BH 41009)(C)	23.8	26.6	17.7	19.5	17.1	24.1	14.5	20.5	16.1	17.3	15.9	15.0	15.0	26.0	17.5	21.0
40	CMH 08-292(C)	25.2	24.2	18.4	19.0	16.9	24.0	13.7	20.2	21.0	15.8	18.9	15.1	15.7	27.4	19.0	21.5
41	BIO 9544(C)	21.6	22.8	18.1	19.1	16.7	24.2	14.6	19.6	21.3	16.6	15.8	16.5	16.8	27.4	19.1	21.4
	Loc. Mean	**24.0**	**22.6**	**17.2**	**18.5**	**16.6**	**23.6**	**14.0**	**19.5**	**18.9**	**16.9**	**14.4**	**15.7**	**15.6**	**24.9**	**17.7**	**20.7**
	C.D. (5%)	1.79	1.77	2.55	1.35	0.95	0.50	0.42	1.30	0.37	0.95	1.42	0.92	0.31	4.86	1.58	0.73
	C.V. (%)	4.57	4.82	9.14	4.49	3.53	1.30	1.83	6.32	1.22	3.46	6.08	3.60	1.24	12.03	7.81	6.61
	F (Prob)	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.12	0.00

TABLE No. 4 (Contd.)

		GRAIN SHELLING %				NHZ					NWPZ							NEPZ
						ZN 1					ZN 2							ZN 3
S.No.	PEDIGREE	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	LMH 616	82.2	84.0	76.9	60.3	75.9	78.6	81.7	74.7	82.9	79.5	80.0	78.6	83.2	75.0	71.3	79.0	77.8
2	IMH 1607	85.5	83.5	85.5	76.5	82.8	83.9	81.7	75.7	81.3	80.6	81.0	79.7	83.8	81.5	78.6	80.5	80.8
3	IMH 1606	84.4	82.7	79.0	72.4	79.6	82.0	79.6	76.7	84.1	80.6	81.0	79.3	82.1	77.0	78.8	76.0	79.0
4	IMH 1526	80.6	82.6	76.9	73.7	78.4	83.1	80.9	76.3	78.9	79.8	78.0	80.7	82.3	74.0	70.8	77.3	77.2
5	HKH 354	79.9	81.9	77.6	69.4	77.2	80.3	81.5	74.3	81.5	79.4	79.5	80.0	87.0	74.5	79.3	79.4	80.0
6	IMH 1609	81.4	85.8	80.8	76.7	81.2	85.9	78.6	71.7	80.3	79.1	77.0	79.7	84.0	76.0	76.3	74.6	77.9
7	DMRH 1419	82.3	80.3	78.0	70.6	77.8	81.0	81.2	71.3	80.5	78.5	80.0	79.3	81.0	79.0	76.0	76.4	78.6
8	LMH 916	86.4	84.7	80.9	67.3	79.8	84.4	77.5	74.3	81.1	79.3	80.5	79.3	85.7	78.0	76.5	69.9	78.3
9	LMH 816	76.6	83.1	77.6	75.2	78.1	79.5	81.7	75.3	79.3	79.0	80.0	78.1	79.7	77.0	76.3	78.3	78.2
10	IMH 1604	82.7	85.0	79.8	69.4	79.2	81.6	80.9	74.3	82.0	79.7	77.0	80.0	84.3	77.5	76.3	77.0	78.7
11	MH 23	81.8	82.3	81.1	67.0	78.0	79.0	79.4	74.3	81.6	78.6	80.5	80.9	81.9	76.5	73.3	75.1	78.0
12	IMH 1605	80.7	84.3	77.8	68.1	77.7	83.0	77.5	72.7	80.6	78.4	80.0	80.0	84.4	74.5	79.6	74.6	78.8
13	LMH 1116	86.1	84.8	82.5	75.8	82.3	84.1	79.4	75.3	84.0	80.7	78.0	78.9	85.9	81.0	78.7	80.4	80.5
14	IMH 1608	81.9	82.5	82.4	73.3	80.0	86.4	81.7	75.3	82.8	81.6	80.0	79.9	85.4	76.0	73.8	82.2	79.5
15	EH-2906	82.8	80.9	78.3	78.8	80.2	82.2	79.3	75.0	81.3	79.4	81.0	80.3	82.0	77.0	73.1	80.0	78.9
16	LMH 716	84.0	83.3	78.4	61.6	76.8	80.2	78.4	73.7	77.0	77.3	78.5	80.9	80.6	76.0	76.5	72.8	77.5
17	VEH-16-1	83.3	84.0	81.5	67.4	79.0	87.7	81.6	72.7	83.3	81.3	81.0	80.7	82.9	76.0	72.0	80.6	78.9
18	IMH 1601	82.7	84.1	79.4	76.9	80.8	84.8	78.6	74.3	83.0	80.2	80.5	80.7	83.8	76.0	73.9	77.3	78.7
19	HKH 355	79.2	83.0	79.4	58.3	75.0	82.7	77.7	73.3	83.8	79.4	81.0	79.7	81.8	77.5	71.8	74.9	77.8
20	MMH 1403	80.8	80.8	76.0	65.5	75.8	78.2	79.5	73.0	80.6	77.8	78.5	79.4	79.5	72.5	74.9	68.9	75.6
21	HKH 356	82.5	85.6	75.5	69.6	78.3	80.0	81.0	74.0	77.9	78.2	79.5	79.0	83.6	75.0	75.8	80.0	78.8
22	KH-2001 Gold	86.7	84.2	80.3	75.7	81.7	84.5	78.5	73.3	81.8	79.5	80.0	80.4	87.4	78.0	74.5	78.7	79.8
23	IMH 1602	82.1	84.0	80.3	85.2	82.9	82.8	81.0	74.0	77.6	78.9	80.0	80.0	84.6	74.5	71.1	72.8	77.1
24	BH 414176	83.5	83.5	80.6	77.5	81.3	82.9	79.3	73.3	81.1	79.1	79.5	80.0	81.6	78.5	77.0	78.6	79.2
25	CCH 9999	83.1	85.0	78.9	70.0	79.2	85.8	78.3	74.0	81.7	80.0	79.5	79.8	85.9	79.0	77.5	76.7	79.7
26	LMH 1216	84.4	84.0	80.9	75.5	81.2	82.2	80.3	74.7	85.4	80.6	78.0	79.1	84.5	79.0	77.2	77.0	79.1
27	DMRH 1410	82.9	83.5	76.9	68.3	77.9	79.2	79.2	75.0	80.6	78.5	79.5	79.3	81.6	75.0	75.5	73.4	77.4
28	BH 414351	80.5	82.9	78.0	78.2	79.9	81.6	80.2	73.7	81.4	79.2	77.5	78.0	80.1	74.0	75.2	70.7	75.9

TABLE No. 4 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % BAJA	UDHA	KANG	GOSS	NHZ ZN 1 Mean	LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	NEPZ ZN 3 Mean
29	HKH 353	82.5	82.8	77.8	68.3	77.8	79.3	78.8	74.0	81.5	78.4	77.5	78.3	83.0	76.0	68.8	78.3	77.0
30	LMH 1016	79.2	84.3	80.9	67.0	77.8	80.8	77.6	73.7	83.9	79.0	79.5	78.5	84.4	80.0	77.4	69.6	78.2
31	INDAM-1122	82.3	80.5	75.6	75.7	78.5	82.7	80.0	74.7	84.6	80.5	80.0	79.3	87.0	72.5	76.8	73.5	78.2
32	IMH 1603	84.5	83.3	83.2	78.8	82.4	85.3	77.8	74.7	80.7	79.6	80.0	79.9	85.6	78.5	75.0	77.2	79.4
33	DAS-MH-310	87.1	83.9	84.3	73.3	82.1	86.9	80.9	75.0	76.3	79.8	77.5	80.4	87.7	80.5	80.0	79.6	80.9
34	IMH 1527	83.3	85.0	83.0	77.1	82.1	83.7	78.4	73.3	83.5	79.7	78.5	79.8	82.8	80.5	82.1	78.3	80.3
35	IMH 1533	82.6	85.7	81.2	61.7	77.8	85.8	76.7	73.3	85.1	80.2	80.0	79.3	82.7	79.5	77.6	82.2	80.2
36	AH-7080	83.3	83.4	81.4	73.9	80.5	81.5	81.0	74.3	86.3	80.8	82.0	78.3	84.8	75.0	76.5	71.9	78.1
37	MH 24	81.0	83.8	80.8	73.3	79.7	81.4	81.2	72.7	83.8	79.8	79.0	80.0	83.1	79.0	75.6	75.3	78.7
38	HM-9 (Filler)	83.3	83.5	79.5	74.4	80.1	82.4	80.1	73.7	81.3	79.4	79.5	79.3	80.9	76.5	74.1	75.8	77.7
	CHECKS																	
39	DHM 121 (BH 41009)(C)	80.9	84.2	76.8	73.3	78.8	83.7	80.2	74.3	79.8	79.5	78.0	80.0	83.8	73.0	75.4	75.5	77.6
40	CMH 08-292(C)	83.3	85.7	81.5	72.2	80.7	82.8	78.9	74.3	81.7	79.4	80.5	79.3	83.8	77.5	81.8	77.1	80.0
41	BIO 9544(C)	82.2	83.5	79.4	76.0	80.3	83.8	80.0	73.7	85.6	80.7	78.0	79.5	87.1	75.5	77.6	79.7	79.6
	Loc. Mean	**82.6**	**83.5**	**79.7**	**71.9**	**79.4**	**82.6**	**79.7**	**74.1**	**81.7**	**79.5**	**79.4**	**79.6**	**83.6**	**76.8**	**75.8**	**76.5**	**78.6**
	C.D. (5%)	-	1.78	1.29	10.25	4.26	2.55	0.32	1.97	1.50	2.66	2.62	-	2.28	2.51	1.26	5.72	2.45
	C.V. (%)	-	1.31	1.00	8.77	3.83	1.90	0.25	1.63	1.13	2.39	2.03	-	1.35	2.01	1.02	4.60	2.73
	F (Prob)	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.56	0.01	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 4 (Contd.)

		GRAIN SHELLING %							PZ ZN 4							CWZ ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	LMH 616	76.9	77.8	84.2	79.0	77.4	79.0	82.0	79.5	80.1	74.9	82.8	76.7	87.6	78.4	80.1	78.7
2	IMH 1607	80.8	80.7	86.8	80.5	78.9	84.2	87.0	82.7	79.6	76.9	84.7	77.9	80.3	79.9	79.9	81.4
3	IMH 1606	82.7	76.9	86.0	78.5	75.5	79.2	82.0	80.1	80.4	76.3	81.0	78.9	80.5	71.6	78.1	79.4
4	IMH 1526	72.9	78.4	85.2	80.0	79.1	78.5	80.5	79.2	79.3	76.6	82.4	76.4	86.4	72.6	78.9	78.7
5	HKH 354	78.8	80.5	84.5	77.0	75.0	80.0	83.5	79.9	79.6	75.3	86.6	77.2	70.3	72.2	76.8	78.8
6	IMH 1609	79.4	80.3	86.7	77.8	76.8	83.8	85.0	81.4	78.3	73.1	83.6	78.3	81.2	75.6	78.3	79.6
7	DMRH 1419	77.1	78.1	84.1	76.5	79.5	80.2	82.0	79.6	80.8	76.5	84.9	77.5	88.4	78.3	81.0	79.3
8	LMH 916	81.7	81.6	85.9	79.0	77.3	82.8	86.0	82.0	80.6	74.2	84.1	78.9	81.0	76.1	79.1	79.8
9	LMH 816	83.0	80.4	84.9	82.1	76.4	77.1	80.0	80.6	82.1	74.7	85.4	79.4	83.1	73.6	79.7	79.2
10	IMH 1604	84.8	80.9	85.6	79.1	78.2	78.9	83.0	81.5	82.3	75.2	81.1	79.2	87.8	73.8	79.9	79.9
11	MH 23	73.7	78.4	85.0	80.5	78.9	78.8	80.0	79.3	80.9	76.2	85.9	75.5	84.3	66.3	78.2	78.5
12	IMH 1605	78.6	81.6	85.5	81.3	77.4	79.8	84.0	81.2	80.8	73.2	84.6	78.4	85.4	75.1	79.6	79.4
13	LMH 1116	79.4	81.1	87.9	78.9	77.6	79.9	84.0	81.3	81.9	74.8	87.9	80.3	85.1	72.4	80.4	81.0
14	IMH 1608	78.8	78.3	86.0	80.1	74.0	83.5	83.5	80.6	80.5	76.9	82.9	78.3	88.1	76.6	80.5	80.4
15	EH-2906	78.3	78.6	85.7	83.3	76.8	80.2	84.0	81.0	80.1	72.6	83.3	77.7	82.1	78.1	79.0	79.7
16	LMH 716	72.2	75.1	84.1	80.8	77.3	79.3	81.5	78.6	81.1	76.7	86.2	77.5	82.5	76.9	80.1	78.2
17	VEH-16-1	80.5	80.4	88.1	79.5	78.8	82.7	85.5	82.2	78.3	75.7	81.1	79.6	80.6	75.3	78.4	80.0
18	IMH 1601	85.4	81.2	86.7	81.0	77.1	81.3	85.5	82.6	81.2	77.3	84.1	77.3	83.8	75.0	79.8	80.5
19	HKH 355	76.8	79.9	85.3	79.6	77.9	80.2	82.5	80.3	81.9	75.6	83.9	80.4	84.7	72.7	79.9	78.7
20	MMH 1403	72.1	74.5	82.7	78.9	75.0	68.6	81.0	76.1	82.0	75.1	88.3	79.0	69.6	66.7	76.8	76.3
21	HKH 356	78.3	76.7	84.9	79.0	76.7	76.6	81.0	79.0	80.4	74.5	86.7	78.2	76.6	67.1	77.2	78.4
22	KH-2001 Gold	82.1	77.6	88.0	78.7	78.0	77.7	82.5	80.7	80.9	75.3	85.7	77.6	84.3	77.2	80.2	80.4
23	IMH 1602	71.3	79.1	85.0	74.5	78.2	78.6	83.5	78.6	79.8	75.9	81.8	79.1	67.7	67.9	75.3	78.2
24	BH 414176	78.0	80.7	86.2	80.6	79.2	77.4	84.0	80.9	80.5	77.1	85.4	76.9	71.0	77.8	78.1	79.7
25	CCH 9999	78.4	83.1	86.0	77.5	80.3	78.1	86.0	81.3	80.9	76.4	88.1	78.4	78.9	70.4	78.8	79.9
26	LMH 1216	77.3	79.3	86.5	80.1	77.9	80.0	84.5	80.8	80.9	75.3	83.3	78.1	78.6	78.1	79.0	80.1
27	DMRH 1410	85.0	77.9	83.1	79.0	76.4	75.5	81.5	79.8	79.3	73.7	81.1	77.5	88.4	73.7	78.9	78.6
28	BH 414351	76.4	77.5	85.7	73.8	77.0	80.3	83.5	79.2	80.5	74.4	84.6	78.5	84.2	66.4	78.1	78.3

TABLE No. 4 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
29	HKH 353	76.9	78.0	85.4	76.9	76.4	78.5	83.5	79.4	82.0	76.2	83.2	78.4	80.0	69.6	78.2	78.2
30	LMH 1016	75.9	79.6	85.5	78.9	79.4	80.0	84.5	80.5	78.2	75.4	84.4	77.0	82.4	76.6	79.0	79.1
31	INDAM-1122	75.8	80.9	86.4	75.5	82.3	77.9	82.0	80.1	78.3	72.8	83.3	75.9	82.8	63.7	76.1	78.6
32	IMH 1603	79.8	79.9	87.0	80.6	79.0	82.6	86.0	82.1	80.5	77.4	84.5	78.9	83.0	73.6	79.6	80.6
33	DAS-MH-310	79.1	78.9	90.4	83.4	79.7	82.4	88.5	83.2	79.5	74.2	81.2	78.8	72.4	78.3	77.4	80.7
34	IMH 1527	80.7	81.3	86.5	79.5	79.5	81.1	86.0	82.1	78.8	76.0	85.1	79.9	83.0	77.6	80.1	80.9
35	IMH 1533	79.1	76.9	85.2	80.5	75.8	82.3	86.0	80.8	79.5	73.1	82.9	77.5	84.0	74.5	78.6	79.6
36	AH-7080	81.2	80.0	86.3	79.0	75.2	78.3	84.5	80.6	78.4	75.2	83.1	76.6	82.8	77.2	78.9	79.7
37	MH 24	78.5	78.4	85.0	77.8	76.2	82.5	83.5	80.3	78.8	73.9	82.4	77.7	80.1	71.9	77.5	79.1
38	HM-9 (Filler)	79.6	78.0	84.9	78.1	76.2	77.1	81.5	79.3	79.3	73.3	78.8	77.6	79.4	66.4	75.8	78.3
	CHECKS																
39	DHM 121 (BH 41009)(C)	76.5	81.2	85.6	77.3	77.3	78.5	82.5	79.8	79.5	75.9	80.6	78.7	81.3	69.6	77.6	78.6
40	CMH 08-292(C)	79.1	80.6	86.4	79.0	79.6	79.6	85.0	81.3	80.6	74.7	83.0	78.3	86.0	77.6	80.0	80.4
41	BIO 9544(C)	77.1	80.1	88.6	80.1	78.4	82.0	74.0	80.0	79.8	74.1	82.1	79.2	82.0	73.9	78.5	79.7
	Loc. Mean	**78.5**	**79.3**	**85.8**	**79.1**	**77.6**	**79.6**	**83.3**	**80.5**	**80.2**	**75.2**	**83.8**	**78.1**	**81.5**	**73.6**	**78.7**	**79.4**
	C.D. (5%)	7.88	2.10	0.87	1.56	2.14	0.63	1.47	2.12	0.45	2.27	3.67	2.70	7.63	8.22	3.30	1.29
	C.V. (%)	6.18	1.63	0.62	1.21	1.70	0.49	1.09	2.50	0.35	1.85	2.69	2.13	5.76	6.87	3.68	3.05
	F (Prob)	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.13	0.00

TABLE No. 4 (Contd.)

		STAND AT HARVEST ('000/ha)				NHZ ZN 1					NWPZ ZN 2							NEPZ ZN 3
S.No.	PEDIGREE	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	LMH 616	48.1	76.4	82.1	74.3	70.2	81.3	56.7	73.6	60.0	67.9	41.1	61.1	68.8	55.6	68.1	77.8	62.1
2	IMH 1607	51.9	79.2	83.3	75.7	72.5	84.7	58.3	72.2	65.9	70.3	46.1	56.9	73.2	68.1	73.6	76.4	65.7
3	IMH 1606	48.1	76.4	75.8	82.6	70.7	80.6	58.3	72.2	56.3	66.9	45.6	61.1	67.9	64.6	71.5	68.8	63.2
4	IMH 1526	53.7	72.9	82.1	71.5	70.1	75.0	58.9	75.0	57.0	66.5	29.4	61.1	69.6	65.3	66.7	62.5	59.1
5	HKH 354	50.9	79.2	74.5	82.6	71.8	86.1	59.4	75.0	58.5	69.8	46.7	57.6	72.3	63.9	70.1	63.2	62.3
6	IMH 1609	50.0	77.1	82.1	75.7	71.2	81.9	57.8	75.7	60.0	68.9	37.2	59.0	67.9	59.7	59.7	67.4	58.5
7	DMRH 1419	51.9	75.7	73.2	72.2	68.3	73.6	59.4	77.1	57.0	66.8	45.6	60.4	53.6	49.3	66.0	56.3	55.2
8	LMH 916	52.8	75.7	78.3	78.5	71.3	85.4	61.1	73.6	63.0	70.8	45.6	62.5	70.5	61.8	66.0	76.4	63.8
9	LMH 816	47.2	79.2	84.6	75.0	71.5	76.4	57.8	77.1	60.0	67.8	39.4	58.3	67.0	57.6	64.6	70.8	59.6
10	IMH 1604	50.0	79.2	74.5	60.4	66.0	75.0	58.3	74.3	57.8	66.4	36.1	60.4	65.2	66.0	62.5	65.3	59.2
11	MH 23	50.0	76.4	84.6	72.2	70.8	81.9	57.2	74.3	63.0	69.1	43.9	61.8	76.8	70.1	65.3	68.8	64.4
12	IMH 1605	50.9	76.4	82.1	75.7	71.3	77.8	58.3	75.7	61.5	68.3	45.6	63.2	71.4	63.2	65.3	69.4	63.0
13	LMH 1116	42.6	77.8	77.0	68.1	66.4	72.9	59.4	75.7	60.0	67.0	42.2	59.7	72.3	64.6	70.1	72.9	63.7
14	IMH 1608	44.4	75.7	75.8	79.2	68.8	81.9	58.3	78.5	55.6	68.6	42.2	63.2	75.9	61.8	65.3	59.7	61.4
15	EH-2906	44.4	71.5	79.5	78.5	68.5	76.4	57.8	76.4	60.7	67.8	38.9	58.3	69.6	53.5	70.8	72.9	60.7
16	LMH 716	44.4	75.0	78.3	66.7	66.1	72.2	61.7	77.1	57.8	67.2	42.8	62.5	68.8	52.1	62.5	57.6	57.7
17	VEH-16-1	40.7	77.1	78.3	77.1	68.3	82.6	59.4	75.7	65.9	70.9	48.3	58.3	75.9	58.3	55.6	72.9	61.6
18	IMH 1601	48.1	73.6	79.5	71.5	68.2	86.1	60.6	72.9	61.5	70.3	40.0	60.4	75.0	66.7	77.8	75.7	65.9
19	HKH 355	38.0	75.7	78.3	84.0	69.0	81.3	57.8	76.4	57.0	68.1	38.3	63.9	72.3	59.7	66.0	72.2	62.1
20	MMH 1403	48.1	77.8	82.1	77.1	71.3	79.9	58.3	77.1	60.7	69.0	39.4	61.1	78.6	65.3	67.4	63.2	62.5
21	HKH 356	41.7	75.7	73.2	57.6	62.1	76.4	58.9	77.8	60.7	68.4	39.4	58.3	69.6	66.0	57.6	71.5	60.4
22	KH-2001 Gold	51.9	74.3	73.2	75.0	68.6	84.0	60.6	77.1	63.7	71.3	47.8	64.6	66.1	60.4	59.7	75.0	62.3
23	IMH 1602	48.1	72.2	75.8	83.3	69.9	85.4	59.4	72.9	61.5	69.8	47.8	61.1	75.0	61.1	68.1	74.3	64.6
24	BH 414176	51.9	74.3	78.3	73.6	69.5	82.6	57.8	75.0	63.7	69.8	37.2	62.5	70.5	62.5	63.2	74.3	61.7
25	CCH 9999	55.6	74.3	79.5	80.6	72.5	83.3	60.0	77.8	61.5	70.6	45.6	58.3	67.0	61.1	71.5	66.0	61.6
26	LMH 1216	48.1	79.2	80.8	72.2	70.1	84.7	60.0	76.4	56.3	69.4	40.0	58.3	72.3	59.7	63.2	74.3	61.3
27	DMRH 1410	39.8	78.5	78.3	75.7	68.1	85.4	58.9	76.4	64.4	71.3	51.7	60.4	71.4	60.4	67.4	72.9	64.0
28	BH 414351	48.1	77.1	77.0	84.7	71.7	81.3	60.0	76.4	54.1	67.9	41.7	58.3	66.1	57.6	66.7	62.5	58.8

TABLE No. 4 (Contd.)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) BAJA	UDHA	KANG	GOSS	NHZ ZN 1 Mean	LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	NEPZ ZN 3 Mean
29	HKH 353	42.6	73.6	73.2	78.5	67.0	81.9	57.8	72.9	60.7	68.3	41.7	58.3	70.5	67.4	63.2	72.2	62.2
30	LMH 1016	47.2	79.2	75.8	80.6	70.7	87.5	58.9	75.0	62.2	70.9	36.7	59.0	72.3	57.6	61.8	75.0	60.4
31	INDAM-1122	44.4	79.2	75.8	75.0	68.6	86.1	60.0	74.3	62.2	70.7	47.2	59.0	68.8	65.3	63.2	75.7	63.2
32	IMH 1603	42.6	78.5	74.5	82.6	69.5	79.2	60.0	75.7	62.2	69.3	43.9	63.2	71.4	66.0	59.7	75.0	63.2
33	DAS-MH-310	45.4	79.2	77.0	79.2	70.2	86.8	57.2	77.1	65.9	71.8	43.9	61.8	67.9	61.1	61.8	53.5	58.3
34	IMH 1527	46.3	75.0	78.3	83.3	70.7	80.6	58.9	72.2	64.4	69.0	48.3	64.6	71.4	64.6	65.3	69.4	63.9
35	IMH 1533	46.3	72.9	77.0	72.9	67.3	81.9	58.9	75.7	58.5	68.8	42.8	60.4	71.4	68.1	78.5	61.8	63.8
36	AH-7080	47.2	74.3	80.8	76.4	69.7	82.6	59.4	76.4	60.0	69.6	50.0	60.4	73.2	62.5	76.4	65.3	64.6
37	MH 24	48.1	77.8	82.1	78.5	71.6	84.7	58.3	77.1	60.7	70.2	46.1	62.5	75.9	62.5	75.0	72.9	65.8
38	HM-9 (Filler)	47.2	77.1	77.0	80.6	70.5	79.9	58.9	71.5	58.5	67.2	40.0	61.1	71.4	63.2	59.7	54.9	58.4
	CHECKS																	
39	DHM 121 (BH 41009)(C)	47.2	75.0	77.0	56.9	64.0	70.8	59.4	78.5	57.8	66.6	37.2	59.7	69.6	64.6	68.8	72.2	62.0
40	CMH 08-292(C)	45.4	73.6	78.3	81.3	69.6	84.7	60.6	75.7	61.5	70.6	44.4	62.5	68.8	56.3	66.7	67.4	61.0
41	BIO 9544(C)	44.4	77.1	79.5	79.2	70.1	81.9	58.3	69.4	63.0	68.2	39.4	63.2	69.6	66.7	69.4	77.8	64.4
	Loc. Mean	**47.2**	**76.2**	**78.3**	**75.8**	**69.4**	**81.1**	**59.0**	**75.3**	**60.6**	**69.0**	**42.6**	**60.7**	**70.6**	**62.0**	**66.4**	**69.1**	**61.9**
	C.D. (5%)	6.27	3.43	8.45	15.83	5.90	8.12	2.86	4.48	6.79	3.93	9.75	5.18	9.18	6.61	6.09	12.48	5.03
	C.V. (%)	8.18	2.77	6.65	12.86	6.07	6.16	2.98	3.66	6.90	4.07	14.08	5.25	6.44	6.56	5.65	11.11	7.14
	F (Prob)	0.00	0.00	0.35	0.12	0.32	0.00	0.24	0.03	0.07	0.27	0.03	0.23	0.06	0.00	0.00	0.00	0.00

TABLE No. 4 (Contd.)

		STAND AT HARVEST ('000/ha)							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	LMH 616	55.6	61.1	66.0	71.5	57.6	63.2	52.2	61.0	61.8	63.2	59.4	55.6	84.7	41.1	61.0	63.6
2	IMH 1607	61.1	59.4	75.7	72.2	56.9	65.3	50.6	63.0	59.7	58.3	66.7	60.6	84.7	46.1	62.7	66.0
3	IMH 1606	61.1	57.2	63.2	66.0	45.8	66.0	53.3	58.9	48.6	62.5	58.3	63.9	108.3	33.3	62.5	63.6
4	IMH 1526	52.8	46.1	64.6	66.7	56.3	64.6	53.9	57.8	56.9	61.8	60.6	56.1	86.1	37.2	59.8	61.6
5	HKH 354	57.2	61.1	77.1	70.8	53.5	65.3	53.9	62.7	59.7	61.1	66.1	50.6	91.7	33.9	60.5	64.5
6	IMH 1609	62.2	53.9	69.4	65.3	52.8	66.0	53.9	60.5	49.3	62.5	63.3	56.7	75.0	43.3	58.4	62.4
7	DMRH 1419	46.1	53.9	55.6	69.4	58.3	66.0	55.0	57.8	58.3	63.2	52.8	57.8	80.6	37.2	58.3	60.2
8	LMH 916	66.7	55.6	78.5	71.5	53.5	66.7	58.3	64.4	59.7	52.8	66.7	58.9	91.7	41.7	61.9	65.7
9	LMH 816	62.2	54.4	61.1	72.2	56.3	64.6	49.4	60.0	63.2	59.7	63.9	56.7	81.9	42.8	61.4	63.1
10	IMH 1604	41.7	60.6	63.9	67.4	59.0	65.3	52.8	58.7	55.6	64.6	66.1	61.7	72.2	39.4	59.9	61.3
11	MH 23	61.7	56.1	75.7	72.2	54.9	64.6	56.1	63.0	53.5	61.8	64.4	63.9	79.2	43.3	61.0	65.0
12	IMH 1605	58.3	59.4	67.4	72.9	54.2	65.3	54.4	61.7	57.6	63.9	65.6	59.4	69.4	43.3	59.9	64.0
13	LMH 1116	60.0	56.7	68.1	69.4	57.6	67.4	47.8	61.0	64.6	60.4	61.7	57.8	81.9	33.9	60.0	63.1
14	IMH 1608	63.9	53.9	66.0	73.6	42.4	66.0	52.8	59.8	38.2	61.8	62.2	51.7	69.4	29.4	52.1	61.1
15	EH-2906	46.1	55.0	63.2	68.8	46.5	66.0	50.0	56.5	64.6	63.2	65.6	54.4	79.2	21.1	58.0	61.2
16	LMH 716	61.7	56.1	66.7	65.3	54.2	63.2	50.6	59.7	50.0	58.3	56.1	56.1	93.1	37.2	58.5	61.0
17	VEH-16-1	61.7	57.8	77.1	63.9	51.4	66.0	52.2	61.4	46.5	63.2	66.7	60.0	100.0	43.3	63.3	64.3
18	IMH 1601	62.2	60.6	56.3	66.0	54.2	66.0	53.9	59.9	45.8	62.5	65.0	60.6	76.4	46.7	59.5	63.9
19	HKH 355	56.1	55.0	72.9	59.0	53.5	66.7	50.6	59.1	59.0	60.4	63.3	55.6	90.3	43.9	62.1	63.2
20	MMH 1403	63.9	60.6	75.0	66.0	53.5	64.6	55.0	62.6	61.1	61.1	80.6	53.3	95.8	51.7	67.3	65.9
21	HKH 356	58.3	60.0	66.7	65.3	40.3	66.0	51.1	58.2	57.6	63.9	65.0	53.9	80.6	36.7	59.6	61.1
22	KH-2001 Gold	54.4	59.4	77.8	66.0	55.6	66.0	51.1	61.5	57.6	66.0	64.4	61.7	100.0	36.7	64.4	64.8
23	IMH 1602	66.7	60.6	65.3	73.6	52.8	66.7	50.6	62.3	57.6	59.0	61.7	57.8	100.0	45.0	63.5	65.3
24	BH 414176	61.7	58.9	71.5	72.2	59.0	65.3	50.0	62.7	64.6	63.9	66.1	58.9	83.3	40.6	62.9	64.6
25	CCH 9999	61.7	58.9	75.0	75.7	56.3	66.0	53.3	63.8	61.1	56.9	66.7	58.9	87.5	41.1	62.0	65.2
26	LMH 1216	62.8	55.6	65.3	75.0	58.3	66.0	52.2	62.2	60.4	62.5	65.6	57.2	84.7	36.1	61.1	64.0
27	DMRH 1410	61.1	58.3	74.3	66.0	56.3	64.6	56.7	62.5	61.1	61.8	56.1	60.6	94.4	43.9	63.0	65.1
28	BH 414351	61.1	56.7	66.0	67.4	55.6	64.6	53.9	60.7	54.2	61.1	64.4	55.0	95.8	34.4	60.8	63.0

TABLE No. 4 (Contd.)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
29	HKH 353	46.7	57.8	63.2	70.8	41.7	65.3	53.3	57.0	59.0	65.3	63.3	52.2	83.3	35.6	59.8	61.9
30	LMH 1016	66.7	58.3	77.1	69.4	57.6	66.7	51.7	63.9	51.4	65.3	64.4	56.7	93.1	42.8	62.3	64.8
31	INDAM-1122	62.2	53.9	77.8	68.8	59.7	67.4	54.4	63.5	49.3	56.9	66.7	61.7	73.6	37.8	57.7	63.9
32	IMH 1603	61.7	44.4	67.4	63.2	54.9	66.7	52.2	58.6	54.2	61.8	53.3	59.4	73.6	37.2	56.6	62.4
33	DAS-MH-310	65.6	50.6	79.9	73.6	56.9	64.6	50.6	63.1	64.6	61.8	57.8	62.2	87.5	31.1	60.8	63.9
34	IMH 1527	61.7	62.2	67.4	73.6	59.0	64.6	52.2	63.0	63.9	61.8	63.3	60.6	81.9	47.8	63.2	65.3
35	IMH 1533	66.7	61.1	73.6	64.6	47.9	66.0	55.0	62.1	56.9	63.2	65.6	61.1	83.3	41.7	62.0	64.2
36	AH-7080	60.0	57.8	77.8	66.7	54.9	66.7	53.9	62.5	59.7	60.4	66.7	55.0	83.3	47.8	62.2	65.0
37	MH 24	66.1	62.2	67.4	72.9	54.2	66.7	52.2	63.1	60.4	61.1	62.2	58.3	83.3	43.3	61.5	65.7
38	HM-9 (Filler)	58.9	57.8	67.4	70.8	52.8	66.0	51.1	60.7	59.0	59.0	63.3	47.2	79.2	40.0	58.0	62.0
	CHECKS																
39	DHM 121 (BH 41009)(C)	57.2	46.7	71.5	64.6	56.9	66.0	55.6	59.8	61.8	64.6	59.4	57.2	98.6	29.4	61.9	62.4
40	CMH 08-292(C)	63.3	62.2	68.8	72.2	59.7	66.7	55.6	64.1	61.1	64.6	61.7	59.4	80.6	44.4	62.0	64.7
41	BIO 9544(C)	63.9	60.6	65.3	68.8	59.7	66.0	54.4	62.7	61.8	61.8	65.0	61.1	98.6	41.7	65.0	65.5
	Loc. Mean	**59.8**	**57.0**	**69.5**	**69.1**	**54.2**	**65.7**	**52.9**	**61.2**	**57.4**	**61.7**	**63.4**	**57.7**	**85.8**	**39.6**	**60.9**	**63.6**
	C.D. (5%)	7.66	4.30	10.67	8.63	5.28	2.37	5.63	4.38	5.52	8.84	9.88	6.65	14.41	11.33	6.38	2.35
	C.V. (%)	7.89	4.64	9.45	7.69	6.00	2.22	6.55	6.80	5.93	8.82	9.59	7.09	10.34	17.59	9.20	6.90
	F (Prob)	0.00	0.00	0.00	0.06	0.00	0.14	0.25	0.00	0.00	0.91	0.02	0.00	0.00	0.00	0.16	0.00

TABLE No. 4 (Contd.)

		DAYS TO 50% POLLEN SHED				NHZ					NWPZ							NEPZ
						ZN 1					ZN 2							ZN 3
S.No.	PEDIGREE	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	LMH 616	58.0	53.7	52.0	54.7	54.6	53.3	51.0	52.7	53.3	52.6	53.7	48.7	54.0	52.0	54.0	51.0	52.2
2	IMH 1607	59.0	53.3	49.0	50.3	52.9	53.7	49.0	53.7	52.3	52.2	53.7	46.0	53.5	50.3	46.7	49.7	50.0
3	IMH 1606	59.0	54.3	51.0	50.3	53.7	50.3	50.0	55.7	51.0	51.8	55.3	49.0	54.5	50.3	48.7	48.7	51.1
4	IMH 1526	61.0	53.3	51.3	53.3	54.8	51.3	53.0	55.7	51.3	52.8	55.7	47.0	56.0	53.3	53.3	51.3	52.8
5	HKH 354	56.7	51.3	48.7	53.3	52.5	51.3	47.7	56.3	50.3	51.4	52.7	47.0	55.5	49.0	49.3	48.0	50.3
6	IMH 1609	59.3	52.3	51.0	51.7	53.6	52.7	50.0	56.7	51.7	52.8	56.3	48.0	54.5	50.3	51.3	48.7	51.5
7	DMRH 1419	59.7	56.0	51.7	55.3	55.7	52.0	48.0	57.0	52.3	52.3	56.0	48.0	54.5	50.7	52.7	51.0	52.1
8	LMH 916	58.7	52.0	50.7	51.7	53.3	53.0	48.3	56.0	50.7	52.0	53.7	47.0	52.5	51.0	44.7	49.7	49.8
9	LMH 816	59.3	51.7	51.7	52.3	53.8	50.0	49.0	55.3	52.0	51.6	53.3	47.0	53.5	52.0	48.7	49.0	50.6
10	IMH 1604	59.3	54.3	50.0	53.0	54.2	54.7	48.7	54.3	53.7	52.8	56.3	47.0	55.0	51.7	51.7	49.3	51.8
11	MH 23	60.0	54.3	52.3	53.0	54.9	54.7	51.7	57.0	52.0	53.8	56.3	49.0	55.0	53.0	52.7	50.0	52.7
12	IMH 1605	59.3	55.7	50.7	53.0	54.7	54.0	49.0	55.3	51.0	52.3	54.7	48.0	55.5	50.0	49.7	48.7	51.1
13	LMH 1116	59.7	51.3	51.3	53.0	53.8	52.7	48.0	55.7	52.7	52.3	54.0	47.0	56.0	54.3	45.7	52.0	51.5
14	IMH 1608	62.0	56.0	50.3	53.0	55.3	54.3	52.0	53.3	51.7	52.8	57.7	47.0	55.0	53.0	55.7	51.3	53.3
15	EH-2906	60.3	54.3	52.3	54.3	55.3	51.3	51.7	55.7	53.3	53.0	54.7	47.0	54.5	53.3	55.3	51.0	52.6
16	LMH 716	58.7	54.0	51.3	52.3	54.1	53.0	48.3	54.3	51.7	51.8	54.0	46.0	55.0	51.7	47.7	51.3	50.9
17	VEH-16-1	59.7	55.0	52.7	53.7	55.3	54.3	50.0	54.0	51.3	52.4	55.7	47.0	53.0	53.0	52.3	49.0	51.7
18	IMH 1601	56.0	54.0	52.3	52.7	53.8	52.0	49.0	55.0	51.3	51.8	55.3	47.0	55.0	51.0	49.7	51.3	51.6
19	HKH 355	55.7	53.0	48.3	53.7	52.7	51.3	48.7	53.7	50.0	50.9	54.0	48.0	53.0	49.7	49.3	48.0	50.3
20	MMH 1403	60.7	54.0	54.3	53.3	55.6	57.0	53.7	54.7	53.3	54.7	57.3	47.0	54.5	54.7	54.0	53.7	53.5
21	HKH 356	54.0	52.3	48.3	52.7	51.8	52.0	48.7	55.7	52.0	52.1	53.7	47.0	54.0	53.0	53.7	48.7	51.7
22	KH-2001 Gold	59.0	55.0	51.3	52.7	54.5	54.7	52.0	56.7	53.0	54.1	55.7	47.0	54.5	52.0	55.7	49.3	52.4
23	IMH 1602	56.7	52.3	49.7	52.3	52.8	50.0	49.7	57.3	50.3	51.8	55.7	47.0	53.5	50.7	49.7	49.3	51.0
24	BH 414176	61.3	55.7	52.7	52.7	55.6	53.0	50.3	55.7	50.7	52.4	57.3	47.0	54.5	51.0	50.7	49.3	51.6
25	CCH 9999	58.0	54.3	50.3	53.0	53.9	53.0	47.7	56.7	51.3	52.2	54.7	47.0	51.5	50.0	49.7	50.7	50.6
26	LMH 1216	61.0	50.3	50.7	51.3	53.3	50.7	48.3	55.0	50.0	51.0	56.0	47.0	55.0	51.0	47.7	50.7	51.2
27	DMRH 1410	59.3	50.3	51.7	52.3	53.4	54.3	49.7	55.7	54.0	53.4	57.0	49.0	51.5	50.3	53.7	49.0	51.8
28	BH 414351	61.3	56.0	55.0	54.0	56.6	53.3	52.0	53.3	53.3	53.0	57.0	48.3	54.0	53.7	55.3	52.7	53.5

TABLE No. 4 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED BAJA	UDHA	KANG	GOSS	NHZ ZN 1 Mean	LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	NEPZ ZN 3 Mean
29	HKH 353	54.3	53.7	49.0	54.3	52.8	48.3	50.3	52.0	49.3	50.0	53.0	49.0	53.0	49.7	47.7	47.7	50.0
30	LMH 1016	60.7	53.7	51.7	52.7	54.7	55.7	51.7	53.7	53.3	53.6	56.3	49.0	56.0	55.7	52.7	53.3	53.8
31	INDAM-1122	59.7	55.0	50.7	50.0	53.8	53.3	50.0	55.0	53.0	52.8	54.3	48.0	56.5	53.0	50.7	51.3	52.3
32	IMH 1603	60.0	53.3	51.7	52.3	54.3	53.0	49.3	55.3	51.3	52.3	57.0	46.0	54.0	55.0	55.7	51.0	53.1
33	DAS-MH-310	54.7	54.0	50.0	51.7	52.6	54.3	49.7	56.0	52.3	53.1	55.3	49.0	55.0	52.7	54.7	52.7	53.2
34	IMH 1527	58.0	52.3	51.3	52.0	53.4	51.7	51.3	55.0	50.7	52.2	55.3	48.0	54.0	53.0	52.7	49.7	52.1
35	IMH 1533	59.3	53.0	50.7	52.3	53.8	53.7	50.0	55.3	50.7	52.4	56.0	47.0	54.0	51.0	52.7	49.7	51.7
36	AH-7080	56.0	52.7	49.7	54.0	53.1	54.3	47.0	55.7	50.3	51.8	53.0	45.0	51.0	49.7	50.7	48.7	49.7
37	MH 24	59.7	56.0	51.3	52.0	54.8	51.3	49.7	54.3	51.7	51.8	56.0	50.0	56.5	52.7	51.7	50.3	52.9
38	HM-9 (Filler)	58.0	50.7	51.7	53.7	53.5	52.0	48.0	55.3	50.0	51.3	54.3	45.0	56.0	51.3	51.3	47.7	50.9
	CHECKS																	
39	DHM 121 (BH 41009)(C)	61.3	56.0	52.3	51.7	55.3	52.3	51.3	53.7	53.3	52.7	57.0	46.0	54.5	52.0	51.7	50.3	51.9
40	CMH 08-292(C)	59.3	52.0	52.0	54.0	54.3	53.0	47.0	56.7	52.7	52.3	56.0	47.0	55.5	51.7	51.7	51.7	52.3
41	BIO 9544(C)	61.0	56.0	55.0	53.0	56.3	55.3	52.3	53.7	54.0	53.8	59.7	47.0	56.5	52.0	56.7	51.7	53.9
	Loc. Mean	**58.9**	**53.6**	**51.2**	**52.7**	**54.1**	**52.8**	**49.8**	**55.1**	**51.8**	**52.4**	**55.4**	**47.4**	**54.4**	**51.8**	**51.4**	**50.2**	**51.8**
	C.D. (5%)	2.04	0.92	1.63	2.90	1.91	3.10	0.86	1.79	1.81	1.93	3.19	1.67	1.01	2.64	1.74	1.67	1.68
	C.V. (%)	2.13	1.05	1.96	3.38	2.53	3.61	1.06	1.99	2.15	2.63	3.54	2.17	0.91	3.14	2.08	2.05	2.85
	F (Prob)	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 4 (Contd.)

		DAYS TO 50% POLLEN SHED							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	LMH 616	60.0	53.7	59.0	50.7	47.7	48.3	57.3	53.8	58.3	51.0	57.7	52.7	59.0	53.3	55.3	53.7
2	IMH 1607	58.3	57.0	61.0	51.0	49.7	49.0	58.7	55.0	58.3	50.3	57.7	50.7	63.0	51.7	55.3	53.2
3	IMH 1606	59.0	57.3	60.7	50.0	49.3	49.0	58.3	54.8	55.7	51.7	57.7	53.7	61.3	55.7	55.9	53.6
4	IMH 1526	60.7	54.0	60.0	53.7	52.3	50.3	57.7	55.5	57.3	51.0	59.0	53.7	59.3	54.0	55.7	54.4
5	HKH 354	59.0	53.7	58.3	49.7	48.3	48.7	57.3	53.6	60.0	52.0	57.0	54.7	60.0	53.7	56.2	52.9
6	IMH 1609	58.7	53.3	60.7	50.3	49.7	49.3	57.0	54.1	61.3	50.7	59.7	52.7	60.0	51.0	55.9	53.7
7	DMRH 1419	57.7	54.3	60.0	51.3	49.3	49.0	57.7	54.2	60.0	50.3	57.7	54.3	62.0	55.7	56.7	54.2
8	LMH 916	57.7	54.0	57.7	49.7	48.3	48.7	57.3	53.3	56.7	51.0	57.0	55.7	63.0	51.7	55.8	52.9
9	LMH 816	57.0	52.3	60.0	51.0	48.7	49.0	56.7	53.5	54.7	51.3	57.7	53.7	60.0	53.3	55.1	53.0
10	IMH 1604	59.7	57.7	59.7	50.7	49.3	48.7	57.0	54.7	59.7	52.3	59.7	53.7	60.0	53.0	56.4	54.1
11	MH 23	62.0	58.3	61.0	53.0	49.7	48.7	58.3	55.9	58.7	51.0	61.3	53.7	58.0	54.7	56.2	54.8
12	IMH 1605	60.0	54.3	60.3	50.3	50.0	49.0	58.0	54.6	55.0	51.7	60.0	53.7	58.3	53.0	55.3	53.6
13	LMH 1116	58.3	53.7	59.0	52.0	50.0	49.3	57.3	54.2	55.7	49.7	57.3	53.7	62.0	55.0	55.6	53.6
14	IMH 1608	61.7	58.7	62.7	50.7	49.7	51.0	58.7	56.1	58.0	51.7	60.0	53.7	65.0	57.7	57.7	55.2
15	EH-2906	59.0	53.3	59.0	50.7	50.7	48.3	57.3	54.0	56.0	51.3	58.0	54.3	56.7	55.0	55.2	54.0
16	LMH 716	58.0	53.7	59.0	50.3	49.0	49.0	56.0	53.6	56.7	50.0	57.0	52.7	60.0	55.3	55.3	53.2
17	VEH-16-1	58.7	56.7	59.7	49.7	49.7	49.3	55.0	54.1	55.7	51.0	59.3	52.7	62.0	53.7	55.7	53.8
18	IMH 1601	59.3	55.3	61.0	50.7	50.0	48.3	57.0	54.5	57.3	51.3	57.7	54.3	63.0	52.3	56.0	53.7
19	HKH 355	57.3	53.3	60.7	52.0	49.0	49.0	57.7	54.1	55.0	50.0	57.7	52.7	56.0	50.7	53.7	52.5
20	MMH 1403	60.3	54.7	61.0	54.0	53.0	53.3	58.7	56.4	57.0	50.3	57.7	57.7	62.0	54.3	56.5	55.4
21	HKH 356	56.3	55.7	58.7	49.3	48.7	48.3	57.7	53.5	54.0	52.0	57.3	54.7	65.0	54.3	56.2	53.2
22	KH-2001 Gold	60.3	53.7	61.0	51.7	49.3	50.7	58.3	55.0	58.0	51.3	60.3	54.7	56.0	53.7	55.7	54.4
23	IMH 1602	58.3	55.0	60.0	51.0	49.3	48.0	57.3	54.1	55.7	51.7	57.7	53.7	63.0	50.3	55.3	53.2
24	BH 414176	59.3	53.3	60.0	51.3	49.7	49.0	57.3	54.3	59.0	51.3	57.3	54.3	62.0	53.0	56.2	54.0
25	CCH 9999	58.3	56.0	58.3	49.3	49.3	47.7	56.7	53.7	56.3	52.7	57.7	53.3	61.0	53.7	55.8	53.3
26	LMH 1216	56.7	54.3	58.3	50.3	49.0	48.7	56.0	53.3	56.3	50.7	57.3	54.7	62.3	50.7	55.3	53.0
27	DMRH 1410	59.7	54.0	61.3	50.0	50.3	49.3	58.0	54.7	61.7	52.0	60.0	55.7	62.0	53.7	57.5	54.3
28	BH 414351	58.0	55.7	61.0	52.7	50.0	49.3	58.7	55.0	56.0	51.0	58.3	55.3	55.0	56.7	55.4	54.7

TABLE No. 4 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED							PZ ZN 4 Mean							CWZ ZN 5 Mean	OV'L Mean
		HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU		UDAI	BANS	CHHI	AMBI	GODH	JHAB		
29	HKH 353	59.0	56.7	57.0	50.0	48.0	48.0	56.3	53.6	55.0	51.7	58.3	50.7	56.0	50.0	53.6	52.1
30	LMH 1016	59.3	55.7	60.0	53.7	50.7	51.7	59.0	55.7	58.3	51.7	58.0	55.3	62.0	57.7	57.2	55.1
31	INDAM-1122	60.7	54.3	62.3	51.0	50.3	49.0	57.3	55.0	57.7	52.3	60.0	54.7	63.0	56.7	57.4	54.4
32	IMH 1603	59.0	57.0	60.3	51.7	50.0	49.3	57.0	54.9	55.7	51.3	59.7	54.7	62.3	55.3	56.5	54.4
33	DAS-MH-310	59.0	56.7	60.0	51.7	49.0	49.7	58.3	54.9	62.3	51.3	58.7	52.7	58.0	58.7	56.9	54.4
34	IMH 1527	58.3	55.7	60.0	50.3	50.7	49.0	57.7	54.5	56.3	51.3	57.7	52.7	61.0	52.3	55.2	53.6
35	IMH 1533	58.0	54.3	58.7	48.7	49.3	48.0	55.0	53.1	57.3	50.7	57.3	51.3	57.3	52.7	54.4	53.1
36	AH-7080	57.0	54.3	59.3	48.7	48.7	48.3	53.3	52.8	61.3	52.3	57.0	51.3	60.0	49.3	55.2	52.5
37	MH 24	58.0	56.0	61.3	52.3	50.3	49.7	57.3	55.0	57.7	50.3	60.0	54.7	62.0	56.3	56.8	54.4
38	HM-9 (Filler)	58.3	55.7	59.0	49.0	49.3	49.0	57.7	54.0	59.0	51.0	57.3	53.3	60.7	49.3	55.1	53.1
	CHECKS																
39	DHM 121 (BH 41009)(C)	59.0	58.0	61.3	51.3	50.3	49.3	57.3	55.2	57.0	52.7	59.7	55.0	60.0	56.0	56.7	54.5
40	CMH 08-292(C)	57.7	56.7	57.0	50.7	49.0	49.0	54.7	53.5	59.0	52.0	57.7	55.7	61.0	54.0	56.6	53.9
41	BIO 9544(C)	59.0	56.7	60.0	51.3	49.0	49.3	58.0	54.8	55.3	51.3	57.7	55.7	65.7	55.7	56.9	55.1
	Loc. Mean	**58.8**	**55.2**	**59.9**	**50.9**	**49.6**	**49.2**	**57.3**	**54.4**	**57.5**	**51.3**	**58.3**	**53.9**	**60.6**	**53.8**	**55.9**	**53.8**
	C.D. (5%)	2.35	1.57	2.06	1.29	1.66	0.81	2.00	1.05	1.01	1.73	1.28	1.34	2.16	1.61	1.98	0.75
	C.V. (%)	2.46	1.75	2.12	1.56	2.07	1.02	2.14	1.84	1.08	2.07	1.35	1.53	2.20	1.84	3.11	2.63
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.01	0.00

TABLE No. 4 (Contd.)

		DAYS TO 50% SILKING				NHZ ZN 1					NWPZ ZN 2							NEPZ ZN 3
S.No.	PEDIGREE	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	LMH 616	60.0	57.7	55.3	61.3	58.6	54.3	53.0	56.7	56.7	55.2	56.3	51.7	57.5	56.0	56.0	54.3	55.3
2	IMH 1607	61.0	57.0	52.0	58.7	57.2	55.3	51.0	57.0	56.0	54.8	56.7	49.0	57.5	54.3	48.7	56.3	53.8
3	IMH 1606	61.0	58.0	54.0	57.7	57.7	51.7	52.0	59.0	54.7	54.3	59.0	52.0	58.5	56.7	50.7	57.7	55.8
4	IMH 1526	63.0	57.3	53.3	60.7	58.6	52.0	55.0	59.0	54.3	55.1	58.7	50.0	60.0	57.3	55.0	54.7	55.9
5	HKH 354	59.0	55.3	50.7	61.0	56.5	51.7	50.7	59.3	53.3	53.8	55.3	51.0	59.5	53.3	51.3	53.3	54.0
6	IMH 1609	61.3	56.7	54.7	60.0	58.2	54.3	52.0	59.7	55.0	55.3	59.3	51.3	57.5	56.3	53.3	57.7	55.9
7	DMRH 1419	61.7	59.7	54.7	62.3	59.6	53.3	50.0	60.7	55.0	54.8	58.0	51.3	59.5	53.7	54.3	54.0	55.1
8	LMH 916	60.7	56.0	52.7	59.3	57.2	54.0	50.3	59.3	54.3	54.5	56.3	49.3	57.0	56.7	46.7	55.7	53.6
9	LMH 816	61.3	55.7	54.3	60.0	57.8	51.0	51.0	58.3	56.0	54.1	55.7	50.3	56.5	56.7	50.7	53.3	53.9
10	IMH 1604	61.3	58.3	53.0	60.7	58.3	56.7	50.7	57.7	56.3	55.3	59.7	50.0	59.0	58.0	53.7	55.7	56.0
11	MH 23	62.0	58.3	55.0	59.7	58.8	55.0	53.7	59.3	55.7	55.9	59.0	52.0	58.5	59.7	54.7	55.3	56.5
12	IMH 1605	61.3	60.0	54.3	60.0	58.9	56.0	52.0	59.0	54.7	55.4	58.3	52.0	59.5	56.7	51.7	57.7	56.0
13	LMH 1116	61.7	55.3	53.7	59.0	57.4	53.0	51.0	58.7	55.7	54.6	56.7	50.0	60.0	58.7	47.7	53.7	54.4
14	IMH 1608	64.0	60.3	54.7	60.0	59.8	56.0	54.0	56.7	55.0	55.4	60.7	51.0	59.0	59.3	57.7	59.7	57.9
15	EH-2906	62.3	58.7	55.0	61.0	59.3	52.3	53.7	59.0	56.7	55.4	57.0	50.3	59.5	58.3	57.3	54.3	56.1
16	LMH 716	60.7	57.3	53.7	60.0	57.9	53.7	51.3	58.0	55.0	54.5	57.0	49.3	59.0	55.7	49.7	54.3	54.2
17	VEH-16-1	61.7	59.0	56.3	60.3	59.3	55.3	52.0	57.7	55.7	55.2	58.7	50.0	56.0	59.7	54.3	55.0	55.6
18	IMH 1601	58.0	58.0	56.3	59.7	58.0	53.0	52.0	58.3	54.7	54.5	58.3	50.0	58.0	57.3	51.7	57.3	55.4
19	HKH 355	57.7	56.3	50.7	62.0	56.7	52.7	50.7	57.0	53.3	53.4	57.3	51.0	57.0	55.0	51.3	54.3	54.3
20	MMH 1403	62.7	58.0	57.0	60.3	59.5	58.3	55.7	57.7	56.3	57.0	59.7	50.0	59.0	59.3	56.0	57.3	56.9
21	HKH 356	56.3	56.3	50.3	60.0	55.8	52.7	50.7	59.0	55.0	54.3	56.3	50.0	57.5	58.7	55.7	54.0	55.4
22	KH-2001 Gold	61.0	58.7	54.0	60.7	58.6	56.0	54.0	59.7	56.0	56.4	58.0	50.0	58.5	57.0	57.7	53.7	55.8
23	IMH 1602	58.7	56.3	51.7	59.7	56.6	51.0	51.7	60.3	53.7	54.2	57.7	50.0	57.5	55.3	51.7	54.3	54.4
24	BH 414176	63.3	59.0	56.0	60.3	59.7	54.0	52.3	58.7	53.7	54.7	60.0	50.0	59.5	56.0	52.7	54.7	55.5
25	CCH 9999	60.0	58.3	52.3	60.0	57.7	53.7	49.7	57.3	54.7	53.8	57.0	50.3	56.0	52.7	51.7	53.3	53.5
26	LMH 1216	63.0	54.3	53.7	57.7	57.2	52.0	50.3	58.3	53.0	53.4	58.7	50.7	59.0	58.0	49.7	53.3	54.9
27	DMRH 1410	61.3	54.7	55.7	59.7	57.8	56.3	51.7	59.0	57.3	56.1	60.3	52.0	55.5	56.7	55.7	57.0	56.2
28	BH 414351	63.3	60.0	58.3	61.0	60.7	53.7	54.0	56.7	56.7	55.3	59.3	52.0	57.5	59.0	57.3	57.0	57.0

TABLE No. 4 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% SILKING				NHZ ZN 1					NWPZ ZN 2							NEPZ ZN 3
		BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
29	HKH 353	57.3	57.7	52.3	62.0	57.3	50.0	52.3	55.0	52.3	52.4	57.0	52.3	57.0	55.3	49.7	52.0	53.9
30	LMH 1016	62.7	57.7	54.3	59.3	58.5	56.7	53.7	57.3	56.3	56.0	59.7	51.7	60.0	60.0	54.7	57.0	57.2
31	INDAM-1122	61.7	59.0	54.3	56.7	57.9	55.0	52.0	59.0	56.7	55.7	57.3	52.0	60.5	58.7	52.7	57.0	56.4
32	IMH 1603	62.0	57.0	55.3	58.7	58.3	54.0	51.3	59.0	55.0	54.8	60.0	49.0	56.5	60.3	57.7	56.3	56.6
33	DAS-MH-310	56.7	57.7	52.0	59.3	56.4	55.0	51.7	59.7	55.0	55.3	58.0	52.7	59.0	57.3	56.7	56.0	56.6
34	IMH 1527	60.3	56.0	55.0	59.0	57.6	53.0	53.3	58.0	55.3	54.9	58.3	52.0	57.5	58.3	54.7	55.7	56.1
35	IMH 1533	61.3	56.7	55.0	59.3	58.1	55.3	52.0	58.7	54.0	55.0	59.0	50.3	58.0	56.3	54.7	56.0	55.7
36	AH-7080	58.0	56.7	53.0	61.0	57.2	54.3	49.0	59.7	53.0	54.0	55.3	48.3	55.0	54.0	52.7	54.0	53.2
37	MH 24	61.7	59.3	54.0	60.0	58.8	52.3	51.7	58.3	55.3	54.4	59.0	53.7	60.5	57.7	53.7	55.3	56.6
38	HM-9 (Filler)	60.0	54.7	55.3	61.0	57.8	53.0	50.0	59.7	53.0	53.9	57.3	48.0	60.0	55.3	53.3	52.7	54.4
	CHECKS																	
39	DHM 121 (BH 41009)(C)	63.3	60.0	56.0	58.3	59.4	53.7	54.3	56.7	56.7	55.3	60.3	49.7	58.5	59.3	53.7	56.3	56.3
40	CMH 08-292(C)	61.3	56.0	54.7	61.7	58.4	54.0	49.0	60.0	55.7	54.7	58.0	50.3	59.5	55.0	53.7	54.7	55.2
41	BIO 9544(C)	63.0	59.7	58.3	60.3	60.3	56.0	54.3	57.7	57.3	56.3	62.0	49.3	60.5	57.3	58.7	56.3	57.4
	Loc. Mean	**60.9**	**57.5**	**54.2**	**60.0**	**58.2**	**53.9**	**52.0**	**58.4**	**55.1**	**54.9**	**58.2**	**50.6**	**58.3**	**57.0**	**53.4**	**55.3**	**55.5**
	C.D. (5%)	2.10	0.86	1.71	3.26	2.02	3.09	0.86	2.07	1.90	1.93	3.09	1.95	1.39	3.17	1.80	2.04	1.81
	C.V. (%)	2.12	0.92	1.94	3.35	2.48	3.52	1.01	2.18	2.12	2.51	3.27	2.37	1.18	3.42	2.07	2.27	2.87
	F (Prob)	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 4 (Contd.)

		DAYS TO 50% SILKING							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	LMH 616	62.0	55.7	59.7	53.0	50.7	50.7	58.3	55.7	60.7	54.0	58.3	56.0	61.0	56.3	57.7	56.4
2	IMH 1607	60.3	59.0	63.0	55.7	53.0	51.0	60.0	57.4	60.7	53.3	58.3	53.7	65.0	54.7	57.6	56.2
3	IMH 1606	61.0	59.0	62.0	55.3	53.0	51.3	59.3	57.3	57.7	54.7	58.7	56.7	63.3	58.7	58.3	56.8
4	IMH 1526	62.7	56.7	61.0	54.7	55.7	52.3	58.7	57.4	60.3	54.0	59.3	56.7	61.3	56.7	58.1	57.0
5	HKH 354	60.7	55.7	59.0	51.7	51.3	51.3	58.3	55.4	61.3	55.0	57.3	57.3	62.0	57.0	58.3	55.7
6	IMH 1609	60.7	55.3	62.0	55.3	53.0	52.3	58.0	56.7	62.7	53.7	61.7	55.3	62.0	54.0	58.2	56.9
7	DMRH 1419	59.7	56.0	60.7	53.7	52.7	51.7	58.7	56.1	61.3	53.3	58.0	57.3	64.0	58.7	58.8	56.8
8	LMH 916	59.3	55.7	58.3	52.0	52.0	50.7	58.3	55.2	58.3	54.0	57.0	58.7	65.0	54.7	57.9	55.6
9	LMH 816	59.0	54.3	60.7	52.7	51.7	51.3	57.7	55.3	57.3	54.3	58.3	56.3	62.0	55.7	57.3	55.6
10	IMH 1604	61.7	60.0	62.3	54.3	53.3	51.3	58.0	57.3	61.7	55.3	61.7	56.7	62.0	56.0	58.9	57.2
11	MH 23	64.0	59.3	61.7	54.7	53.0	51.0	59.3	57.6	60.3	54.0	62.0	57.0	60.0	57.7	58.5	57.5
12	IMH 1605	62.0	56.3	61.7	55.3	54.0	51.7	59.0	57.1	56.7	54.7	61.7	57.0	60.3	55.7	57.7	57.0
13	LMH 1116	60.3	56.0	60.3	54.0	53.7	51.7	58.3	56.3	56.7	52.7	57.7	56.7	64.0	58.0	57.6	56.1
14	IMH 1608	63.3	60.3	65.7	52.7	54.0	53.0	59.7	58.4	59.0	54.7	62.0	56.3	67.0	60.7	59.9	58.4
15	EH-2906	61.0	55.7	59.7	52.0	54.3	51.3	58.3	56.0	57.7	54.3	58.3	57.7	58.7	58.0	57.4	56.8
16	LMH 716	60.7	55.0	60.3	52.0	52.0	51.0	57.0	55.4	58.3	53.0	57.7	55.7	62.0	58.0	57.4	55.8
17	VEH-16-1	61.0	58.3	61.0	55.0	53.7	51.7	56.0	56.7	56.7	54.0	60.3	56.3	64.0	56.7	58.0	56.9
18	IMH 1601	61.0	57.3	62.3	55.0	53.0	50.7	58.0	56.8	58.7	54.3	58.0	57.7	65.0	55.7	58.2	56.6
19	HKH 355	60.0	55.0	61.7	54.7	53.0	51.7	58.7	56.4	58.0	53.0	58.3	55.7	58.0	54.3	56.2	55.5
20	MMH 1403	62.7	56.0	62.3	56.0	56.0	55.7	59.7	58.3	59.3	53.3	58.3	60.0	64.0	57.7	58.8	58.1
21	HKH 356	58.3	57.3	59.3	52.3	52.7	51.3	58.7	55.7	55.7	55.0	57.7	57.7	67.0	57.3	58.4	56.0
22	KH-2001 Gold	62.3	55.7	62.0	55.3	53.0	52.7	59.3	57.2	59.7	54.3	61.7	58.7	58.0	56.7	58.2	57.2
23	IMH 1602	61.3	56.7	61.3	55.0	52.7	50.7	58.3	56.6	57.3	54.7	58.7	57.0	65.0	53.3	57.7	56.0
24	BH 414176	61.3	55.3	61.0	54.0	53.7	51.0	58.3	56.4	61.0	54.3	57.7	57.0	64.0	56.0	58.3	56.8
25	CCH 9999	60.7	57.3	58.7	51.7	52.7	50.0	57.7	55.5	57.7	55.7	58.0	56.7	63.0	57.0	58.0	55.7
26	LMH 1216	58.7	56.0	59.3	52.0	52.0	50.3	57.0	55.0	58.3	53.7	57.3	58.0	64.3	53.7	57.6	55.6
27	DMRH 1410	61.7	56.3	63.3	56.0	54.0	52.0	59.0	57.5	63.3	55.0	59.7	59.0	64.0	56.7	59.6	57.5
28	BH 414351	61.3	58.0	61.7	55.3	54.0	52.3	59.7	57.5	57.7	54.0	58.7	58.0	57.0	59.7	57.5	57.5

TABLE No. 4 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% SILKING HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
29	HKH 353	62.0	58.3	59.7	52.7	52.3	50.7	57.3	56.1	56.3	54.7	59.0	53.3	58.0	53.0	55.7	55.2
30	LMH 1016	60.7	57.7	61.3	55.7	54.7	53.7	60.0	57.7	60.3	54.7	58.7	58.0	64.0	60.3	59.3	57.8
31	INDAM-1122	62.3	56.3	63.3	55.7	53.7	51.3	58.3	57.3	59.0	55.3	61.7	58.0	65.0	60.0	59.8	57.5
32	IMH 1603	61.0	60.3	61.3	55.0	54.0	52.3	58.0	57.4	56.7	54.3	61.0	58.3	64.3	58.7	58.9	57.3
33	DAS-MH-310	60.7	58.7	61.0	53.0	52.3	51.3	59.3	56.6	64.3	54.3	59.3	56.0	60.0	61.0	59.2	57.0
34	IMH 1527	60.0	57.7	61.0	54.3	54.7	52.0	58.7	56.9	58.3	54.3	58.3	55.0	63.0	55.7	57.4	56.6
35	IMH 1533	60.0	56.3	60.0	53.7	53.3	50.7	56.0	55.7	60.7	53.7	57.7	54.3	59.3	55.3	56.8	56.2
36	AH-7080	59.0	56.3	60.0	52.0	52.3	51.3	54.3	55.0	64.7	55.3	58.0	54.3	62.0	52.3	57.8	55.4
37	MH 24	60.0	58.3	62.3	53.7	53.7	52.3	58.3	57.0	59.3	53.3	61.0	58.3	64.0	59.7	59.3	57.3
38	HM-9 (Filler)	60.0	57.3	60.3	51.0	53.7	51.7	58.7	56.1	61.3	54.0	58.0	56.7	62.7	52.0	57.4	56.0
	CHECKS																
39	DHM 121 (BH 41009)(C)	61.0	60.0	62.7	55.7	54.3	52.7	58.3	57.8	58.3	55.7	61.7	58.7	62.0	59.3	59.3	57.7
40	CMH 08-292(C)	61.0	58.7	58.0	53.3	52.3	51.7	55.7	55.8	60.7	55.0	57.7	58.7	63.0	56.7	58.6	56.5
41	BIO 9544(C)	61.0	59.3	60.7	54.0	52.7	51.3	59.0	56.9	57.3	54.3	57.7	59.3	67.7	59.0	59.2	57.9
	Loc. Mean	**60.9**	**57.2**	**61.1**	**53.9**	**53.2**	**51.6**	**58.3**	**56.6**	**59.3**	**54.3**	**59.1**	**57.0**	**62.6**	**56.8**	**58.2**	**56.7**
	C.D. (5%)	3.13	1.58	1.85	2.30	1.81	0.84	2.01	1.10	1.15	1.73	1.41	1.71	2.16	1.75	2.10	0.79
	C.V. (%)	3.16	1.70	1.86	2.63	2.09	1.01	2.13	1.84	1.19	1.96	1.47	1.85	2.13	1.89	3.18	2.61
	F (Prob)	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.05	0.00

TABLE No. 4 (Contd.)

		DAYS TO 75% DRY HUSK				NHZ ZN 1					NWPZ ZN 2							NEPZ ZN 3
S.No.	PEDIGREE	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	LMH 616	97.0	91.3	91.0	85.0	91.1	86.0	83.0	101.7	117.0	96.9	86.0	88.7	98.0	84.0	90.3	87.3	89.1
2	IMH 1607	100.3	92.3	88.7	82.0	90.8	84.7	82.0	101.0	115.7	95.8	84.0	87.0	99.0	84.3	85.3	88.0	87.9
3	IMH 1606	99.3	92.0	89.7	81.7	90.7	84.7	83.0	103.3	117.0	97.0	87.0	88.0	100.5	85.7	87.7	88.0	89.5
4	IMH 1526	103.3	92.0	89.0	84.0	92.1	87.7	85.0	100.7	116.3	97.4	91.3	87.0	100.0	89.3	86.3	87.0	90.2
5	HKH 354	99.7	91.3	86.3	85.3	90.7	86.3	84.0	99.7	117.0	96.8	88.3	87.0	99.5	83.3	87.7	88.7	89.1
6	IMH 1609	98.7	91.3	90.3	82.3	90.7	84.7	83.0	98.0	117.3	95.7	88.3	88.0	98.5	85.0	90.7	88.3	89.8
7	DMRH 1419	98.7	92.0	90.3	86.7	91.9	85.0	83.0	100.7	117.7	96.6	90.0	87.0	100.5	82.0	89.7	85.0	89.0
8	LMH 916	94.3	91.0	88.3	84.3	89.5	84.0	83.0	98.3	116.7	95.5	89.0	88.0	98.5	85.0	83.7	85.7	88.3
9	LMH 816	95.3	91.3	90.0	84.0	90.2	84.0	83.0	98.7	116.3	95.5	87.3	87.0	97.0	85.7	84.7	83.0	87.4
10	IMH 1604	99.7	91.7	88.7	86.0	91.5	86.7	85.0	106.3	115.7	98.4	92.0	86.0	99.5	85.3	88.7	86.7	89.7
11	MH 23	100.0	92.7	90.7	84.0	91.8	85.0	84.0	108.7	114.3	98.0	89.3	88.0	99.0	89.7	90.0	86.0	90.3
12	IMH 1605	100.7	93.7	91.7	85.0	92.8	85.0	83.0	101.7	115.3	96.3	87.7	87.0	100.5	85.0	89.0	88.0	89.5
13	LMH 1116	95.7	92.0	89.3	83.7	90.2	84.0	83.0	97.7	115.7	95.1	87.7	85.3	99.5	87.7	86.7	83.0	88.3
14	IMH 1608	102.7	92.0	90.3	84.0	92.3	86.0	85.0	100.3	115.0	96.6	89.7	87.0	100.0	89.3	91.7	87.0	90.8
15	EH-2906	100.3	91.3	90.7	85.0	91.8	86.3	85.0	101.0	119.0	97.8	90.3	87.0	99.5	88.7	94.7	89.7	91.6
16	LMH 716	94.7	92.0	89.3	84.7	90.2	84.7	84.0	98.0	115.7	95.6	87.3	88.0	99.5	80.0	85.7	82.3	87.1
17	VEH-16-1	102.0	91.7	92.0	84.0	92.4	86.0	84.0	96.7	115.3	95.5	91.7	87.0	96.0	91.0	91.7	85.7	90.5
18	IMH 1601	97.3	91.3	92.0	84.0	91.2	85.0	84.0	96.0	118.3	95.8	89.3	88.0	99.5	87.3	82.7	90.0	89.5
19	HKH 355	97.7	91.7	86.3	86.7	90.6	86.0	84.0	101.0	116.0	96.8	87.3	86.7	97.5	86.3	85.7	88.0	88.6
20	MMH 1403	100.7	92.3	93.7	83.3	92.5	87.0	86.0	98.0	117.0	97.0	93.3	88.0	100.5	90.7	91.0	89.3	92.1
21	HKH 356	100.3	91.3	86.0	84.0	90.4	85.7	84.0	103.0	117.3	97.5	90.0	87.0	98.5	91.3	85.7	89.7	90.4
22	KH-2001 Gold	98.7	91.7	89.7	85.3	91.3	86.0	85.0	100.3	116.3	96.9	93.3	88.0	101.0	86.7	92.7	86.7	91.4
23	IMH 1602	100.3	91.0	87.3	84.7	90.8	86.7	86.0	103.0	119.0	98.7	88.3	87.0	98.5	84.3	87.7	88.7	89.1
24	BH 414176	95.7	92.7	91.7	83.7	90.9	84.3	82.0	100.0	117.7	96.0	90.3	87.0	98.5	82.0	87.7	84.7	88.4
25	CCH 9999	100.0	92.0	88.0	83.0	90.8	86.0	83.0	98.3	115.7	95.8	88.0	88.0	98.0	82.3	89.3	88.7	89.1
26	LMH 1216	95.3	91.0	90.0	81.0	89.3	84.3	82.0	96.0	115.0	94.3	88.7	87.0	99.5	82.7	86.7	84.0	88.1
27	DMRH 1410	97.7	91.3	91.7	82.7	90.8	84.7	84.0	96.3	117.0	95.5	92.0	88.0	99.0	83.3	91.3	85.0	89.8
28	BH 414351	98.3	92.3	94.3	85.0	92.5	84.3	85.0	106.3	116.3	98.0	91.3	87.0	98.0	89.7	89.7	87.3	90.5

TABLE No. 4 (Contd.)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK				NHZ ZN 1					NWPZ ZN 2							NEPZ ZN 3
		BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
29	HKH 353	94.7	91.0	88.0	86.7	90.1	85.7	82.0	103.0	116.3	96.7	87.3	88.0	98.5	88.3	85.0	89.0	89.4
30	LMH 1016	103.3	92.7	90.0	83.3	92.3	85.0	85.0	107.7	117.3	98.8	93.3	88.0	101.0	89.7	90.3	90.7	92.2
31	INDAM-1122	102.3	92.0	90.0	80.7	91.2	88.7	85.0	99.3	118.3	97.8	93.7	88.0	100.0	91.3	87.7	89.3	91.7
32	IMH 1603	99.0	91.7	91.0	83.3	91.3	83.7	83.0	99.7	117.0	95.8	90.3	87.0	98.0	87.7	86.7	86.7	89.4
33	DAS-MH-310	98.3	92.3	87.7	83.7	90.5	85.0	82.0	99.7	115.0	95.4	88.7	89.0	100.5	87.7	93.7	88.7	91.4
34	IMH 1527	98.7	91.3	90.7	82.7	90.8	84.3	84.0	103.3	116.7	97.1	87.7	87.0	98.5	84.0	85.7	85.3	88.0
35	IMH 1533	102.7	91.3	90.7	84.7	92.3	85.7	85.0	99.0	116.3	96.5	87.7	87.0	98.5	84.3	85.7	87.3	88.4
36	AH-7080	96.3	91.7	88.7	86.3	90.8	84.7	83.0	97.7	115.7	95.3	87.3	86.0	96.0	84.0	88.0	87.3	88.1
37	MH 24	97.7	91.3	89.7	84.7	90.8	84.0	85.0	97.3	116.3	95.7	89.7	88.0	100.5	90.7	89.7	87.0	90.9
38	HM-9 (Filler)	96.3	91.7	91.0	84.7	90.9	86.0	83.0	98.3	116.3	95.9	86.7	88.0	102.5	83.3	88.3	84.0	88.8
	CHECKS																	
39	DHM 121 (BH 41009)(C)	101.3	93.0	91.7	81.7	91.9	84.7	83.0	100.0	117.7	96.3	93.0	87.0	101.0	87.3	88.3	88.0	90.8
40	CMH 08-292(C)	94.3	91.0	90.3	87.0	90.7	84.7	79.0	96.7	114.7	93.8	89.7	87.0	99.5	81.3	89.7	83.7	88.5
41	BIO 9544(C)	103.3	92.3	94.0	85.3	93.7	86.3	85.0	96.3	117.7	96.3	94.3	87.0	100.5	91.0	88.3	89.0	91.7
	Loc. Mean	**98.8**	**91.8**	**90.0**	**84.1**	**91.2**	**85.3**	**83.7**	**100.2**	**116.5**	**96.4**	**89.5**	**87.4**	**99.2**	**86.3**	**88.3**	**87.0**	**89.6**
	C.D. (5%)	2.76	1.03	1.61	4.16	2.55	2.37	1.29	2.12	1.80	2.44	3.66	1.59	1.18	4.39	2.78	2.87	2.21
	C.V. (%)	1.72	0.69	1.10	3.04	2.00	1.71	0.95	1.30	0.95	1.81	2.52	1.12	0.59	3.13	1.94	2.03	2.17
	F (Prob)	0.00	0.00	0.00	0.37	0.41	0.03	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00

TABLE No. 4 (Contd.)

		DAYS TO 75% DRY HUSK							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	LMH 616	95.3	91.3	103.3	94.7	89.7	91.3	93.0	94.1	93.0	83.0	99.3	91.0	87.7	85.7	89.9	92.0
2	IMH 1607	93.7	98.3	102.7	99.7	93.0	91.7	97.3	96.6	94.7	83.0	95.3	93.0	92.0	86.0	90.7	92.4
3	IMH 1606	93.3	98.0	100.7	95.0	92.7	91.3	94.7	95.1	95.0	84.3	98.7	91.3	91.0	87.0	91.2	92.6
4	IMH 1526	95.7	94.0	105.7	100.0	94.7	92.3	97.7	97.1	90.7	83.3	99.0	93.3	90.3	85.7	90.4	93.4
5	HKH 354	95.3	91.3	103.3	97.0	91.0	91.7	96.3	95.1	92.7	84.3	98.0	92.0	90.0	87.3	90.7	92.4
6	IMH 1609	94.0	91.3	100.7	101.0	93.7	92.3	94.7	95.4	95.7	83.3	94.0	93.7	87.7	85.3	89.9	92.3
7	DMRH 1419	93.3	90.7	102.0	95.3	92.3	91.3	92.7	94.0	96.3	83.7	97.7	92.7	91.3	85.0	91.1	92.3
8	LMH 916	93.0	90.3	101.3	93.7	91.3	91.7	92.0	93.3	91.7	83.3	93.7	91.0	91.7	86.7	89.7	91.2
9	LMH 816	92.0	89.7	100.7	92.7	92.0	92.0	91.0	92.9	86.7	83.0	94.3	90.0	88.3	85.0	87.9	90.5
10	IMH 1604	93.7	99.0	101.0	100.7	92.7	91.7	97.0	96.5	95.7	84.0	95.7	99.7	90.3	88.0	92.2	93.6
11	MH 23	96.0	100.7	104.3	96.3	93.3	91.7	94.0	96.6	94.7	82.7	98.3	91.7	87.7	85.3	90.1	93.3
12	IMH 1605	94.7	93.0	100.3	95.3	93.7	91.7	92.0	94.4	91.7	84.3	94.3	91.3	91.3	88.3	90.2	92.4
13	LMH 1116	92.7	93.3	103.3	93.7	92.7	91.7	92.0	94.2	84.3	82.3	96.3	91.3	90.7	86.3	88.6	91.2
14	IMH 1608	97.3	100.0	108.7	97.0	93.7	93.3	93.7	97.7	92.7	85.0	94.7	91.3	94.3	88.0	91.0	93.7
15	EH-2906	95.0	91.7	105.3	94.7	93.7	91.3	94.3	95.1	90.7	85.0	98.0	90.7	86.3	86.7	89.6	93.0
16	LMH 716	93.0	90.3	101.0	92.7	92.3	91.3	90.0	93.0	92.0	83.7	94.3	89.3	89.0	86.3	89.1	90.8
17	VEH-16-1	94.0	97.7	100.7	96.3	94.0	91.7	90.3	95.0	96.7	83.7	97.3	90.7	93.3	88.0	91.6	92.9
18	IMH 1601	94.0	98.0	101.3	99.0	93.0	91.3	93.7	95.8	92.0	84.7	94.3	92.0	93.7	88.0	90.8	92.6
19	HKH 355	92.0	90.0	100.3	94.3	92.3	92.0	93.7	93.5	91.7	82.7	95.3	90.0	86.0	83.0	88.1	91.3
20	MMH 1403	94.3	91.3	102.3	96.0	95.7	96.0	94.0	95.7	97.7	82.7	97.0	93.3	90.3	87.0	91.3	93.6
21	HKH 356	90.3	96.3	104.0	101.7	93.0	91.7	99.3	96.6	86.3	84.0	98.3	91.7	93.3	88.0	90.3	93.0
22	KH-2001 Gold	94.3	95.3	105.3	101.3	92.7	92.3	99.0	97.2	89.3	83.7	98.7	92.3	88.3	86.3	89.8	93.3
23	IMH 1602	92.7	96.0	103.7	101.7	93.3	90.3	96.0	96.2	91.3	84.3	98.7	90.0	94.0	82.0	90.1	92.8
24	BH 414176	94.3	90.3	100.0	92.3	93.7	91.7	92.0	93.5	97.7	84.0	94.3	90.0	92.7	86.0	90.8	91.7
25	CCH 9999	93.3	97.0	101.7	95.3	92.7	89.7	95.0	95.0	91.3	85.7	95.3	94.0	92.3	86.0	90.8	92.2
26	LMH 1216	91.7	92.0	100.0	92.0	91.7	90.7	91.0	92.7	93.7	83.7	94.0	90.7	92.7	85.3	90.0	90.8
27	DMRH 1410	93.7	92.3	101.7	95.0	94.3	91.7	92.3	94.4	97.3	84.0	95.7	93.3	91.7	86.3	91.4	92.3
28	BH 414351	93.3	98.0	102.0	96.0	93.7	92.7	94.3	95.7	88.7	83.3	95.0	89.7	86.0	87.7	88.4	92.8

TABLE No. 4 (Contd.)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK							PZ ZN 4 Mean							CWZ ZN 5 Mean	OV'L Mean
		HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU		UDAI	BANS	CHHI	AMBI	GODH	JHAB		
29	HKH 353	94.3	98.3	106.7	96.0	92.7	90.7	94.3	96.1	93.7	84.0	97.7	90.3	87.0	84.3	89.5	92.4
30	LMH 1016	94.3	95.3	103.7	98.3	95.0	94.3	94.7	96.5	99.7	83.3	97.0	92.7	89.0	88.7	91.7	94.2
31	INDAM-1122	94.7	91.7	107.0	103.0	93.3	91.7	96.3	96.8	87.3	85.0	99.7	93.3	94.0	88.0	91.2	93.8
32	IMH 1603	94.3	99.0	100.0	95.0	93.7	92.7	91.3	95.1	88.0	84.7	95.7	89.7	92.0	87.7	89.6	92.2
33	DAS-MH-310	94.7	98.3	103.3	97.0	92.0	91.7	96.0	96.1	97.0	83.3	96.7	96.0	85.7	89.0	91.3	93.1
34	IMH 1527	94.0	97.7	100.0	95.3	94.3	92.0	91.0	94.9	95.7	84.0	93.7	90.3	89.0	85.3	89.7	91.9
35	IMH 1533	93.3	94.3	100.7	95.0	93.3	90.7	91.0	94.0	91.0	83.7	95.7	89.7	85.7	84.7	88.4	91.6
36	AH-7080	92.7	96.0	100.3	94.7	92.0	92.3	91.3	94.2	94.7	85.3	95.0	90.0	89.0	84.3	89.7	91.5
37	MH 24	91.7	97.0	104.3	96.0	94.0	92.3	93.0	95.5	91.7	83.0	95.7	93.7	91.3	88.3	90.6	92.7
38	HM-9 (Filler)	93.3	96.7	102.0	94.0	92.7	92.7	94.7	95.1	88.0	83.7	94.7	91.7	88.7	84.3	88.5	91.7
	CHECKS																
39	DHM 121 (BH 41009)(C)	94.0	99.3	100.3	97.7	94.7	93.3	92.3	96.0	89.7	86.0	97.3	92.7	88.0	86.7	90.1	93.0
40	CMH 08-292(C)	93.7	97.3	100.3	91.7	91.7	91.7	90.0	93.8	90.7	84.3	95.3	90.7	90.7	85.0	89.4	91.2
41	BIO 9544(C)	94.3	99.0	102.3	99.7	92.3	91.7	98.7	96.9	89.7	84.0	96.0	99.3	96.3	87.3	92.1	94.1
	Loc. Mean	**93.8**	**95.1**	**102.4**	**96.4**	**93.0**	**91.9**	**93.8**	**95.2**	**92.4**	**83.9**	**96.2**	**92.0**	**90.3**	**86.3**	**90.2**	**92.4**
	C.D. (5%)	1.64	2.55	3.25	3.78	1.89	0.89	1.83	2.06	1.25	2.13	1.94	3.22	4.20	1.96	2.50	1.05
	C.V. (%)	1.07	1.65	1.95	2.41	1.25	0.59	1.20	2.06	0.83	1.56	1.24	2.16	2.86	1.40	2.43	2.12
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.04	0.00

TABLE No. 4 (Contd.)

		PLANT HEIGHT(cm)				NHZ					NWPZ							NEPZ
						ZN 1					ZN 2							ZN 3
S.No.	PEDIGREE	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	LMH 616	208.3	238.7	249.3	126.3	205.7	193.3	215.0	176.7	268.0	213.3	146.7	178.7	184.1	175.0	149.3	221.0	175.8
2	IMH 1607	198.3	244.3	249.0	146.6	209.6	178.3	200.0	182.3	252.7	203.3	124.7	174.3	177.0	195.0	152.8	213.7	172.9
3	IMH 1606	210.0	249.3	256.7	141.8	214.5	186.7	195.0	174.3	252.3	202.1	125.7	169.3	174.0	185.0	165.6	203.0	170.4
4	IMH 1526	225.0	205.7	254.0	152.9	209.4	205.0	195.0	186.3	280.7	216.8	139.7	177.7	206.4	195.0	166.6	218.7	184.0
5	HKH 354	193.3	206.6	220.0	118.9	184.7	193.3	195.0	170.0	260.3	204.7	131.3	168.7	171.8	200.0	159.1	186.7	169.6
6	IMH 1609	210.0	223.0	257.3	131.0	205.3	170.0	198.0	162.3	252.3	195.7	130.7	181.7	182.4	175.0	159.6	206.0	172.6
7	DMRH 1419	223.3	239.3	260.7	139.2	215.6	201.7	230.0	177.7	281.3	222.7	139.7	167.0	194.2	200.0	163.3	245.3	184.9
8	LMH 916	191.7	237.8	224.3	132.3	196.5	186.7	196.3	181.0	238.3	200.6	129.7	170.3	182.6	192.5	160.9	208.7	174.1
9	LMH 816	235.0	236.0	257.7	149.9	219.7	198.3	203.0	186.3	270.7	214.6	129.0	171.0	187.3	150.0	152.1	209.3	166.5
10	IMH 1604	220.0	222.3	256.7	129.1	207.0	195.0	205.0	187.0	269.7	214.2	139.0	178.0	185.4	202.5	165.4	190.0	176.7
11	MH 23	196.7	217.7	231.0	130.1	193.9	196.7	180.0	201.0	233.7	202.8	129.0	172.0	165.8	167.5	152.1	229.0	169.2
12	IMH 1605	200.0	203.7	256.0	124.8	196.1	173.3	190.0	197.0	254.7	203.8	126.7	170.7	170.1	195.0	156.6	190.0	168.2
13	LMH 1116	223.3	201.7	255.7	154.6	208.8	208.3	214.0	193.3	260.0	218.9	147.3	176.0	175.6	197.5	159.0	216.3	178.6
14	IMH 1608	193.3	201.3	219.0	107.7	180.4	180.0	180.0	191.7	249.0	200.2	129.0	171.3	170.5	165.0	136.3	188.0	160.0
15	EH-2906	228.3	248.0	231.0	136.8	211.0	215.0	233.0	193.0	279.3	230.1	149.0	182.0	192.7	187.5	182.6	225.3	186.5
16	LMH 716	236.7	224.3	266.0	151.6	219.7	213.3	207.7	184.3	252.7	214.5	133.0	174.0	188.6	207.5	167.2	221.0	181.9
17	VEH-16-1	196.7	227.3	266.0	115.8	201.5	170.0	180.0	185.3	229.0	191.1	127.3	177.0	170.4	160.0	136.6	184.7	159.3
18	IMH 1601	205.0	202.5	267.0	156.0	207.6	193.3	199.3	200.0	273.3	216.5	139.0	167.3	176.7	200.0	169.0	202.7	175.8
19	HKH 355	205.0	226.3	255.0	134.9	205.3	181.7	200.0	197.7	273.7	213.3	133.0	174.3	184.3	202.5	152.5	197.3	174.0
20	MMH 1403	206.7	222.0	240.3	142.9	203.0	186.7	210.0	185.7	278.7	215.3	135.7	170.3	185.6	187.5	162.1	219.3	176.8
21	HKH 356	208.3	248.3	231.3	146.0	208.5	188.3	197.7	195.7	247.0	207.2	145.7	177.3	171.2	195.0	153.4	194.7	172.9
22	KH-2001 Gold	235.0	239.7	274.3	119.1	217.0	206.7	190.0	194.3	281.0	218.0	143.0	170.3	182.8	195.0	169.7	226.0	181.1
23	IMH 1602	206.7	233.3	244.3	152.9	209.3	208.3	185.0	187.0	260.7	210.3	131.3	169.3	178.7	192.5	163.5	207.7	173.8
24	BH 414176	240.0	229.9	248.0	136.2	213.5	216.7	235.0	189.7	286.7	232.0	148.0	174.3	186.4	205.0	174.3	231.7	186.6
25	CCH 9999	206.7	224.3	238.3	114.8	196.0	193.3	195.0	199.3	267.0	213.7	126.3	169.3	172.6	180.0	152.7	198.0	166.5
26	LMH 1216	236.7	238.0	262.3	169.5	226.6	220.0	220.0	196.0	276.7	228.2	144.0	171.7	189.1	195.0	177.9	239.7	186.2
27	DMRH 1410	221.7	233.5	259.0	160.3	218.6	205.0	198.0	190.7	262.3	214.0	139.7	180.3	184.2	190.0	171.4	213.0	179.8
28	BH 414351	221.7	236.7	286.0	158.5	225.7	215.0	240.0	188.0	285.3	232.1	135.0	175.7	198.8	205.0	187.3	227.3	188.2

TABLE No. 4 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) BAJA	UDHA	KANG	GOSS	NHZ ZN 1 Mean	LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	NEPZ ZN 3 Mean
29	HKH 353	191.7	215.5	212.3	113.5	183.3	170.0	178.0	193.0	258.7	199.9	122.0	172.0	173.4	182.5	136.8	194.7	163.6
30	LMH 1016	233.3	221.7	272.0	147.7	218.7	216.7	215.0	189.7	294.0	228.8	147.3	174.3	193.4	165.0	183.0	223.3	181.1
31	INDAM-1122	220.0	244.1	269.0	159.5	223.1	195.0	196.7	197.3	260.3	212.3	130.7	162.0	187.3	195.0	180.1	219.3	179.1
32	IMH 1603	211.7	226.7	244.7	157.9	210.2	196.7	215.0	174.3	251.7	209.4	143.0	163.3	189.0	150.0	161.8	215.3	170.4
33	DAS-MH-310	203.3	226.7	245.3	120.6	199.0	181.7	193.0	185.7	268.3	207.2	126.7	173.7	200.7	192.5	161.8	202.7	176.3
34	IMH 1527	211.7	243.7	245.7	147.9	212.2	203.3	230.0	189.7	279.0	225.5	147.3	173.7	192.4	182.5	171.4	216.3	180.6
35	IMH 1533	191.7	226.3	220.0	114.1	188.0	180.0	203.0	200.0	270.0	213.3	115.7	160.3	167.8	192.5	150.6	204.3	165.2
36	AH-7080	218.3	244.3	260.0	130.5	213.3	193.3	210.0	173.7	270.3	211.8	128.3	166.0	196.4	187.5	167.6	218.3	177.4
37	MH 24	216.7	210.7	268.3	146.7	210.6	216.7	216.7	182.7	262.7	219.7	133.3	165.3	191.0	210.0	184.5	200.0	180.7
38	HM-9 (Filler)	196.7	209.3	217.7	101.5	181.3	166.7	190.0	176.7	260.0	198.3	113.0	160.7	181.0	180.0	143.1	189.3	161.2
	CHECKS																	
39	DHM 121 (BH 41009)(C)	208.3	210.2	270.0	144.9	208.4	196.7	208.0	192.0	275.7	218.1	124.0	176.3	179.0	197.5	171.3	205.3	175.6
40	CMH 08-292(C)	243.3	222.0	278.3	138.6	220.6	228.3	243.0	192.7	273.7	234.4	145.7	160.0	198.2	222.5	179.2	237.3	190.5
41	BIO 9544(C)	210.0	266.0	270.3	123.6	217.5	195.0	195.0	194.0	269.0	213.3	133.0	161.7	172.3	185.0	148.4	185.3	164.3
	Loc. Mean	**213.2**	**227.5**	**251.0**	**137.3**	**207.2**	**195.6**	**204.4**	**187.7**	**265.1**	**213.2**	**134.3**	**171.4**	**183.2**	**188.8**	**162.4**	**210.4**	**175.1**
	C.D. (5%)	18.87	10.63	8.41	31.73	18.02	23.15	5.53	7.73	13.32	15.45	25.27	5.06	13.88	15.91	18.09	25.40	11.38
	C.V. (%)	5.45	2.88	2.06	14.23	6.21	7.28	1.66	2.54	3.09	5.18	11.58	1.82	3.75	5.19	6.85	7.43	5.71
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 4 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
1	LMH 616	203.3	163.0	217.0	214.7	146.6	198.2	183.3	189.4	170.0	200.0	201.0	210.7	201.7	147.7	188.5	192.1
2	IMH 1607	184.0	130.0	215.7	213.3	129.3	185.6	166.7	174.9	170.0	188.3	177.3	191.4	190.0	126.0	173.8	183.6
3	IMH 1606	207.0	137.0	222.3	213.0	147.9	185.6	218.3	190.2	191.7	185.0	193.7	234.8	160.0	136.7	183.6	189.7
4	IMH 1526	207.7	152.0	234.0	215.0	126.6	184.5	196.7	188.1	191.0	168.3	189.7	237.9	193.3	141.5	187.0	194.3
5	HKH 354	202.7	147.3	204.3	212.3	145.4	183.0	186.7	183.1	155.0	175.0	181.7	206.7	170.0	124.5	168.8	180.4
6	IMH 1609	191.3	138.0	214.7	213.7	127.1	146.4	168.3	171.4	175.0	166.7	187.3	214.7	183.3	120.4	174.6	181.0
7	DMRH 1419	206.0	164.7	242.3	230.0	157.7	199.2	211.7	201.6	185.0	165.0	208.7	235.8	186.7	157.3	189.7	200.5
8	LMH 916	211.0	156.3	206.3	208.7	144.7	178.6	178.3	183.4	178.3	190.0	156.0	220.6	166.7	119.0	171.8	183.2
9	LMH 816	227.3	153.3	265.0	239.7	130.6	187.9	201.7	200.8	148.3	176.7	212.0	245.2	186.7	141.9	185.1	194.5
10	IMH 1604	200.3	164.7	238.0	234.7	148.2	180.0	200.0	195.1	186.7	198.3	202.7	231.7	185.0	146.2	191.8	194.9
11	MH 23	210.0	143.7	222.7	214.7	143.8	183.0	171.7	184.2	121.7	163.3	178.3	227.5	200.0	151.3	173.7	182.7
12	IMH 1605	196.3	144.0	214.7	218.3	139.4	184.7	181.7	182.7	155.0	181.7	199.3	231.3	195.0	123.9	181.0	184.2
13	LMH 1116	226.0	164.0	245.7	236.0	149.6	205.5	200.0	203.8	210.0	170.0	201.0	250.4	183.3	148.1	193.8	199.0
14	IMH 1608	174.7	135.3	201.7	211.0	116.1	155.2	171.7	166.5	163.3	173.3	178.3	210.8	170.0	117.7	168.9	172.6
15	EH-2906	214.3	157.3	228.0	230.0	141.4	181.0	185.0	191.0	200.0	171.7	204.3	236.0	186.7	138.0	189.4	198.4
16	LMH 716	221.0	152.7	255.0	242.3	144.9	170.6	221.7	201.2	203.3	186.7	202.3	237.1	178.3	150.1	193.0	199.8
17	VEH-16-1	192.0	127.7	218.0	211.0	126.8	176.6	181.7	176.3	155.0	173.3	162.0	196.0	166.7	107.6	160.1	174.8
18	IMH 1601	214.3	154.3	222.7	218.0	134.4	195.0	200.0	191.2	195.0	183.3	187.3	234.5	176.7	123.5	183.4	192.2
19	HKH 355	206.3	161.7	227.3	221.0	136.5	191.6	190.0	190.6	178.3	181.7	182.7	225.3	190.0	149.2	184.5	191.1
20	MMH 1403	215.0	150.0	222.7	218.7	130.3	165.1	180.0	183.1	158.3	190.0	194.7	219.9	190.0	154.2	184.5	189.7
21	HKH 356	214.3	139.7	234.3	218.7	152.7	163.6	196.7	188.6	196.7	168.3	191.0	240.1	166.7	149.1	185.3	190.1
22	KH-2001 Gold	221.3	166.0	251.3	233.3	147.9	192.7	226.7	205.6	165.0	198.3	213.3	249.4	213.3	144.5	197.3	201.9
23	IMH 1602	202.3	154.7	214.7	216.7	140.1	186.0	185.0	185.6	180.0	180.0	182.7	240.7	181.7	134.1	183.2	189.6
24	BH 414176	208.7	173.3	244.0	236.3	169.6	215.8	225.0	210.4	161.7	188.3	203.3	238.7	170.0	157.9	186.7	203.5
25	CCH 9999	195.7	138.0	226.3	221.0	139.8	195.5	183.3	185.7	156.7	165.0	185.0	227.1	183.3	129.7	174.5	184.6
26	LMH 1216	223.3	160.0	246.7	232.3	150.2	211.5	215.0	205.6	170.0	171.7	202.3	221.4	193.3	156.9	185.9	203.4
27	DMRH 1410	214.3	156.0	242.3	229.3	134.9	184.5	206.7	195.4	170.0	200.0	201.0	248.2	200.0	160.3	196.6	198.4
28	BH 414351	226.0	176.0	239.0	236.0	150.9	193.0	211.7	204.7	163.3	180.0	201.7	231.7	211.7	125.9	185.7	204.0

TABLE No. 4 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
29	HKH 353	197.0	142.7	201.0	217.3	138.8	161.3	175.0	176.2	180.0	180.0	159.3	213.3	166.7	118.2	169.6	176.5
30	LMH 1016	222.7	178.0	245.3	243.3	148.5	199.6	205.0	206.1	198.3	168.3	201.0	241.1	193.3	142.3	190.7	202.3
31	INDAM-1122	230.7	132.7	246.0	247.3	136.5	199.4	216.7	201.3	215.0	178.3	214.3	249.9	175.0	143.9	196.1	200.1
32	IMH 1603	214.3	136.0	219.7	230.7	168.4	194.5	198.3	194.6	138.3	170.0	182.0	234.0	176.7	154.4	175.9	189.6
33	DAS-MH-310	198.7	142.3	245.7	230.3	143.6	166.3	188.3	187.9	140.0	176.7	189.3	231.4	165.0	113.9	169.4	185.7
34	IMH 1527	211.3	172.7	228.3	226.0	141.1	196.3	225.0	200.1	180.0	183.3	187.0	228.9	193.3	151.5	187.4	198.5
35	IMH 1533	195.3	124.0	197.3	187.7	138.8	177.3	176.7	171.0	153.3	176.7	158.0	211.5	173.3	122.5	165.9	177.4
36	AH-7080	211.7	137.7	235.7	224.7	138.5	184.4	175.7	186.9	143.3	163.3	193.0	230.6	176.7	158.2	177.5	190.3
37	MH 24	235.0	160.3	254.3	252.0	143.3	205.1	243.3	213.3	200.0	173.3	202.3	254.3	183.3	142.2	192.6	202.0
38	HM-9 (Filler)	180.0	135.0	213.0	205.0	129.2	171.2	170.0	171.9	151.7	148.3	165.7	218.9	163.3	128.7	162.8	172.8
	CHECKS																
39	DHM 121 (BH 41009)(C)	217.7	163.7	234.0	225.3	138.7	203.5	208.3	198.7	180.0	175.0	192.3	228.1	188.3	131.2	182.5	194.3
40	CMH 08-292(C)	229.7	151.3	251.0	236.0	158.4	181.6	223.3	204.5	140.0	201.7	222.7	249.2	193.3	164.8	195.3	206.1
41	BIO 9544(C)	196.3	148.3	217.7	206.3	127.4	189.8	195.0	183.0	175.0	186.7	176.0	214.3	156.7	118.2	171.1	185.8
	Loc. Mean	**208.7**	**150.9**	**229.4**	**223.7**	**141.6**	**185.6**	**196.2**	**190.9**	**171.9**	**178.6**	**190.8**	**229.3**	**182.6**	**138.4**	**181.9**	**191.1**
	C.D. (5%)	16.56	12.01	15.37	16.11	7.18	6.68	27.87	10.40	7.37	27.73	12.76	27.05	31.10	12.11	15.24	6.16
	C.V. (%)	4.88	4.90	4.12	4.43	3.12	2.22	8.74	5.17	2.64	9.56	4.11	7.26	10.48	5.38	7.36	6.04
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.06	0.00	0.00	0.00

TABLE No. 4 (Contd.)

		EAR HEIGHT(cm)				NHZ					NWPZ							NEPZ
						ZN 1					ZN 2							ZN 3
S.No.	PEDIGREE	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	LMH 616	115.0	96.2	131.0	62.4	101.1	110.0	120.7	66.7	103.7	100.3	70.7	83.3	78.6	75.0	52.6	130.0	81.7
2	IMH 1607	105.0	110.5	126.0	80.7	105.6	96.7	118.3	66.7	102.3	96.0	56.3	84.0	84.1	95.0	64.6	124.0	84.7
3	IMH 1606	106.7	103.0	130.3	73.3	103.3	113.3	108.0	64.0	106.0	97.8	58.0	71.7	84.0	82.5	68.4	118.0	80.4
4	IMH 1526	106.7	95.3	124.0	70.8	99.2	105.0	108.0	59.7	102.3	93.7	62.3	77.7	97.3	87.5	57.3	115.7	83.0
5	HKH 354	93.3	97.7	110.7	48.7	87.6	101.7	110.0	62.7	91.7	91.5	54.7	79.0	82.5	100.0	52.6	96.7	77.6
6	IMH 1609	101.7	100.3	135.7	65.3	100.8	91.7	117.0	64.7	102.3	93.9	64.7	86.3	87.9	85.0	67.8	119.0	85.1
7	DMRH 1419	110.0	113.7	138.0	65.4	106.8	115.0	126.3	69.7	116.3	106.8	70.0	76.7	86.9	112.5	76.6	121.7	90.7
8	LMH 916	93.3	101.0	121.7	58.9	93.7	103.3	108.0	62.3	98.3	93.0	55.3	74.0	78.6	95.0	60.4	113.7	79.5
9	LMH 816	123.3	97.3	140.0	67.1	107.0	111.7	111.3	68.7	109.0	100.2	62.0	77.3	81.3	65.0	58.3	106.7	75.1
10	IMH 1604	125.0	94.3	132.3	68.4	105.0	125.0	125.0	65.0	123.0	109.5	64.0	79.3	90.6	110.0	71.2	130.7	91.0
11	MH 23	91.7	91.7	124.0	60.3	91.9	105.0	96.3	71.3	105.0	94.4	59.0	74.0	81.2	72.5	60.4	130.3	79.6
12	IMH 1605	105.0	100.3	141.7	57.5	101.1	90.0	103.3	67.7	106.3	91.8	63.7	73.7	74.6	95.0	62.8	101.0	78.5
13	LMH 1116	111.7	98.3	132.3	75.5	104.5	103.3	114.7	63.3	107.7	97.3	65.7	73.7	78.4	97.5	65.4	124.7	84.2
14	IMH 1608	91.0	93.3	112.3	49.1	86.5	101.7	98.0	59.3	106.7	91.4	51.3	76.0	80.0	87.5	44.4	114.3	75.6
15	EH-2906	118.3	118.2	132.3	65.4	108.6	105.0	139.0	64.7	119.3	107.0	71.3	79.7	89.8	95.0	71.3	126.3	88.9
16	LMH 716	120.0	99.0	138.7	72.3	107.5	115.0	119.3	54.3	119.0	101.9	63.0	73.0	87.1	100.0	64.7	126.7	85.7
17	VEH-16-1	95.0	107.0	127.3	45.9	93.8	93.3	95.7	59.3	91.3	84.9	64.0	78.7	77.2	67.5	47.3	91.7	71.1
18	IMH 1601	91.7	88.7	138.3	80.1	99.7	110.0	108.0	64.3	109.3	97.9	55.3	70.0	82.5	105.0	66.4	117.3	82.8
19	HKH 355	101.7	94.7	125.7	63.1	96.3	101.7	108.3	71.3	118.7	100.0	58.3	76.0	82.3	97.5	61.1	114.0	81.5
20	MMH 1403	96.7	98.8	123.3	61.1	95.0	86.7	98.3	66.0	100.0	87.8	62.3	75.7	89.4	85.0	63.8	118.0	82.4
21	HKH 356	100.0	119.0	127.0	70.3	104.1	101.7	98.0	67.3	102.3	92.3	69.0	74.7	85.3	95.0	46.4	101.3	78.6
22	KH-2001 Gold	126.7	100.1	131.7	49.7	102.0	101.7	101.3	57.0	115.0	93.8	65.7	68.0	86.6	75.0	69.1	118.7	80.5
23	IMH 1602	110.0	96.7	133.7	82.3	105.7	126.7	117.0	63.3	107.0	103.5	64.7	71.3	84.6	105.0	70.6	120.3	86.1
24	BH 414176	135.0	119.3	130.7	69.5	113.6	125.0	133.0	67.3	130.0	113.8	61.3	71.7	88.3	105.0	72.6	135.7	89.1
25	CCH 9999	110.0	101.7	122.0	55.3	97.3	111.7	103.7	64.7	110.7	97.7	51.3	70.3	77.8	87.5	62.0	114.7	77.3
26	LMH 1216	131.7	98.7	135.3	84.9	112.6	128.3	120.7	58.7	114.0	105.4	78.0	73.3	84.7	100.0	75.6	147.3	93.2
27	DMRH 1410	115.0	111.0	126.3	87.7	110.0	123.3	110.7	61.3	114.3	102.4	64.7	81.3	90.3	100.0	81.3	131.7	91.5
28	BH 414351	100.0	97.7	142.7	73.1	103.4	115.0	116.3	56.7	107.3	98.8	60.3	75.3	95.2	95.0	70.0	111.3	84.5

TABLE No. 4 (Contd.)

S.No.	PEDIGREE	EAR HEIGHT(cm) BAJA	UDHA	KANG	GOSS	NHZ ZN 1 Mean	LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	NEPZ ZN 3 Mean
29	HKH 353	86.7	96.7	109.0	45.9	84.6	86.7	89.3	63.0	80.0	79.8	49.7	77.0	83.5	80.0	38.5	95.3	70.7
30	LMH 1016	130.0	101.7	139.3	79.2	112.6	115.0	126.7	75.3	127.0	111.0	71.7	77.0	89.7	77.5	82.9	128.0	87.8
31	INDAM-1122	101.7	109.0	129.7	72.4	103.2	103.3	102.3	83.0	98.3	96.7	62.0	65.7	92.8	87.5	63.0	114.7	80.9
32	IMH 1603	98.3	102.2	128.7	76.1	101.3	113.3	108.3	70.0	100.0	97.9	57.0	64.3	76.0	65.0	58.4	120.0	73.5
33	DAS-MH-310	90.0	116.7	122.0	43.5	93.0	80.0	90.7	70.0	101.7	85.6	54.7	77.7	89.4	80.0	50.2	106.3	76.4
34	IMH 1527	100.0	105.7	124.3	65.9	99.0	118.3	124.3	58.7	104.0	101.3	70.3	73.7	85.2	80.0	69.6	122.3	83.5
35	IMH 1533	95.0	98.0	121.0	49.8	91.0	108.3	116.3	86.7	114.0	106.3	49.7	71.0	76.7	95.0	56.7	119.0	78.0
36	AH-7080	98.3	120.7	126.0	51.6	99.2	96.7	109.7	69.0	114.0	97.3	57.0	69.0	96.3	85.0	65.0	117.3	81.6
37	MH 24	106.7	105.3	139.0	69.7	105.2	125.0	118.0	58.3	111.7	103.3	70.7	65.7	84.6	112.5	82.9	108.3	87.4
38	HM-9 (Filler)	105.0	96.3	118.3	45.5	91.3	96.7	103.0	82.7	104.7	96.8	57.3	70.3	83.7	100.0	52.4	106.3	78.4
	CHECKS																	
39	DHM 121 (BH 41009)(C)	113.3	113.9	140.0	65.5	108.2	105.0	112.7	83.0	106.3	101.8	63.0	80.0	80.1	92.5	64.8	110.3	81.8
40	CMH 08-292(C)	135.0	113.3	145.0	70.1	115.9	130.0	133.0	86.7	121.3	117.8	74.7	68.7	88.3	135.0	76.5	141.0	97.4
41	BIO 9544(C)	113.3	117.4	138.0	58.5	106.8	116.7	123.0	69.0	120.3	107.3	69.7	70.3	86.4	100.0	65.6	104.0	82.7
	Loc. Mean	**107.4**	**103.4**	**129.6**	**64.8**	**101.3**	**107.6**	**112.0**	**66.9**	**108.3**	**98.7**	**62.3**	**74.5**	**84.9**	**91.8**	**63.7**	**117.4**	**82.4**
	C.D. (5%)	13.60	8.48	5.84	20.84	12.27	21.96	3.27	2.42	8.61	11.57	16.05	3.84	10.25	11.43	14.07	17.91	9.49
	C.V. (%)	7.79	5.05	2.77	19.78	8.65	12.55	1.80	2.23	4.89	8.37	15.85	3.17	5.98	7.66	13.60	9.38	10.12
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 4 (Contd.)

		EAR HEIGHT(cm)							PZ							CWZ	
									ZN 4							ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	LMH 616	78.0	62.0	104.0	112.7	82.9	100.0	83.3	89.0	79.0	89.7	91.7	83.8	81.7	73.8	83.6	89.9
2	IMH 1607	78.0	40.3	105.7	118.7	75.1	93.2	65.0	82.3	82.3	90.0	83.7	71.9	70.0	63.0	78.2	87.7
3	IMH 1606	95.3	48.3	111.0	123.3	82.9	98.1	95.0	93.4	80.0	83.3	87.7	84.1	68.3	68.4	80.7	90.2
4	IMH 1526	78.7	50.0	107.0	115.3	65.1	85.9	73.3	82.2	80.0	71.7	85.7	87.0	65.0	70.8	79.0	86.1
5	HKH 354	77.0	49.0	92.3	115.3	77.8	85.2	73.3	81.4	61.7	83.3	87.3	70.5	58.3	62.3	73.0	81.4
6	IMH 1609	83.7	49.7	105.0	118.7	73.9	76.0	71.7	82.7	86.7	78.0	95.3	77.2	66.7	60.2	79.5	87.1
7	DMRH 1419	90.0	57.7	130.3	142.7	85.7	108.1	96.7	101.6	85.0	78.3	106.7	91.5	76.7	78.7	88.0	98.1
8	LMH 916	92.7	54.7	98.3	116.0	77.9	95.3	70.0	86.4	93.3	83.3	75.7	77.2	63.3	59.5	77.8	85.3
9	LMH 816	98.0	49.7	119.0	135.0	82.1	97.9	91.7	96.2	61.7	90.0	95.3	92.7	71.7	71.0	82.1	90.9
10	IMH 1604	94.0	63.3	127.3	143.3	97.1	107.1	90.0	103.2	100.0	93.3	112.0	91.5	71.7	73.1	94.0	99.8
11	MH 23	92.7	46.0	111.3	120.7	85.5	97.3	68.3	88.8	65.0	80.0	81.3	84.7	75.0	75.6	77.3	85.8
12	IMH 1605	88.7	48.7	107.0	125.7	80.3	107.9	70.0	89.7	81.7	84.7	104.3	86.3	70.0	61.9	83.8	88.1
13	LMH 1116	98.0	60.3	115.3	130.7	83.1	105.8	80.0	96.2	105.0	88.3	96.0	91.5	80.0	74.1	91.0	93.9
14	IMH 1608	69.3	42.3	96.3	120.0	69.5	80.3	70.0	78.3	73.3	78.3	80.3	80.3	55.0	58.9	74.2	80.2
15	EH-2906	88.7	58.7	102.3	123.7	75.5	105.5	76.7	90.1	91.7	76.7	98.3	86.8	63.3	69.0	84.5	94.2
16	LMH 716	87.7	52.0	120.0	139.0	84.8	97.3	96.7	96.8	96.7	85.0	99.3	84.7	61.7	75.1	88.1	95.0
17	VEH-16-1	75.3	36.7	100.3	114.0	69.9	83.8	75.0	79.3	77.7	76.7	63.0	68.2	51.7	53.8	67.9	78.3
18	IMH 1601	89.7	54.0	107.0	112.0	75.1	105.9	81.7	89.3	95.0	88.3	87.3	84.7	58.3	61.8	83.4	89.6
19	HKH 355	88.7	61.0	115.0	126.0	70.0	96.6	80.0	91.0	90.0	81.7	97.0	78.8	65.0	74.6	84.4	89.8
20	MMH 1403	86.0	48.0	99.0	111.3	71.1	93.8	66.7	82.3	70.0	80.0	72.7	72.8	65.0	77.1	74.5	83.6
21	HKH 356	90.7	42.3	109.3	111.3	77.3	77.1	78.3	83.8	96.7	70.0	85.0	86.4	58.3	74.5	82.5	86.8
22	KH-2001 Gold	82.3	57.7	116.7	122.7	79.1	100.2	100.0	94.1	70.0	95.0	101.3	94.7	79.0	72.2	86.7	90.7
23	IMH 1602	81.0	57.0	103.0	124.0	79.3	93.0	75.0	87.5	85.0	80.0	78.3	89.2	68.3	67.1	79.9	91.0
24	BH 414176	96.3	69.0	131.0	141.7	92.3	116.0	101.7	106.9	71.7	90.0	90.7	92.6	63.3	79.0	84.8	100.6
25	CCH 9999	76.7	46.0	102.7	124.3	77.9	98.2	76.7	86.1	63.3	73.3	87.3	82.6	73.3	64.9	74.3	85.3
26	LMH 1216	98.3	53.0	117.0	130.0	69.5	117.0	103.3	98.3	81.7	81.7	105.0	87.1	70.0	78.5	86.8	98.2
27	DMRH 1410	103.3	60.3	130.7	151.0	83.1	107.8	93.3	104.2	86.7	93.3	105.0	107.7	75.0	80.2	94.6	100.1
28	BH 414351	92.3	65.0	99.7	123.7	75.9	97.6	85.0	91.3	75.0	83.3	84.7	76.2	73.3	63.0	76.4	89.9

TABLE No. 4 (Contd.)

S.No.	PEDIGREE	EAR HEIGHT(cm) HYDE	KARI	DHAR	MAND	VAGA	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ ZN 5 Mean	OV'L Mean
29	HKH 353	66.7	38.7	80.3	126.0	67.0	83.8	65.0	75.4	70.0	75.0	70.0	58.6	53.3	59.1	66.5	74.7
30	LMH 1016	100.0	68.0	118.0	137.3	87.7	108.4	95.0	102.1	93.3	80.0	97.7	91.7	81.7	71.1	86.8	98.8
31	INDAM-1122	91.3	40.0	107.7	138.3	81.6	106.1	81.7	92.4	100.0	73.3	89.3	82.5	58.3	71.9	83.4	90.4
32	IMH 1603	94.3	40.0	98.7	122.3	91.0	107.0	78.3	90.2	61.7	73.3	79.0	83.2	70.0	77.2	74.9	86.3
33	DAS-MH-310	73.3	44.7	105.7	121.0	68.1	86.4	75.0	82.0	55.0	88.3	81.3	80.4	70.0	56.9	72.4	81.1
34	IMH 1527	84.7	66.7	108.0	151.0	78.2	98.6	78.3	95.1	85.0	88.3	82.0	78.3	63.3	75.8	81.9	91.4
35	IMH 1533	82.7	38.7	100.0	96.7	79.2	90.4	63.3	78.7	76.7	83.3	80.0	81.5	68.3	61.2	76.5	84.3
36	AH-7080	90.0	40.7	106.7	115.7	71.3	99.7	66.7	84.4	50.0	83.3	86.7	80.9	55.0	79.1	76.0	86.4
37	MH 24	114.0	56.7	121.7	157.7	88.0	112.2	106.7	108.1	100.0	84.7	95.7	98.7	65.0	71.1	90.0	98.7
38	HM-9 (Filler)	68.3	42.7	101.7	111.3	69.9	80.5	66.7	77.3	56.7	76.7	82.3	75.4	53.3	64.4	71.1	81.5
	CHECKS																
39	DHM 121 (BH 41009)(C)	92.3	63.0	111.3	125.0	79.1	102.5	88.3	94.5	78.3	81.7	83.7	87.3	63.3	65.6	79.3	91.9
40	CMH 08-292(C)	104.7	52.3	123.7	137.0	93.8	103.4	105.0	102.8	65.0	91.7	105.7	106.6	71.7	82.4	90.3	103.5
41	BIO 9544(C)	90.3	50.3	112.3	118.3	77.4	103.1	88.3	91.5	86.7	85.0	86.7	89.5	56.7	59.1	81.4	92.3
	Loc. Mean	**87.9**	**51.8**	**109.3**	**125.6**	**78.8**	**97.8**	**81.6**	**90.4**	**79.6**	**82.7**	**89.2**	**84.3**	**66.6**	**69.2**	**81.0**	**89.7**
	C.D. (5%)	12.95	8.77	12.72	20.61	6.01	5.34	15.32	7.13	6.51	15.71	12.03	14.90	21.79	6.05	10.33	4.37
	C.V. (%)	9.06	10.42	7.16	10.10	4.69	3.36	11.55	7.49	5.03	11.69	8.30	10.88	20.14	5.38	10.21	8.96
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.39	0.00	0.00	0.00

TABLE No. 5 **PERFORMANCE OF EARLY EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, UDHAMPUR, KANGRA, GOSSAIGAON, LUDHIANA, KARNAL, KANPUR, PANTNAGAR, DHOLI, BHUBANESHWAR, RANCHI, VARANASI, BAHRAICH, SABOUR, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, VAGARAI, COIMBATORE, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA IN TRIAL No. TR63-64 (NIVT EARLY+ EXTRA EARLY) DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD YIELD (kg/ha) AT 15% MOISTURE										NHZ ZN 1										NWPZ ZN 2	
		ALMO	R	BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
1	AH-7007	5352	37	5731	37	6750	30	7453	3	1044	18	6321	30	4386	34	4106	33	8329	4	8828	11	6412	19
2	FH 3763	8634	2	8367	13	7356	20	4450	31	557	37	7202	13	6529	11	4945	20	5852	35	8297	15	6406	20
3	KH-102	7707	10	9736	2	7796	16	5543	12	1085	17	7695	5	6108	13	5831	4	6235	29	8024	18	6550	17
4	IH-0901	6593	25	7078	30	7878	14	4514	29	842	28	6516	26	5161	25	4710	23	6568	26	6212	37	5663	35
5	IH-0702	6493	27	6742	33	8316	10	4873	22	1430	11	6606	23	4722	32	4357	30	8442	3	6685	35	6051	25
6	KMH-14-50	6085	31	6900	31	6937	28	4269	34	428	39	6048	36	3943	38	4320	31	5743	36	6269	36	5069	38
7	DMRH 1417	9010	1	8361	14	7182	25	3487	39	857	26	7010	18	6081	14	6307	1	7291	14	10164	4	7461	6
8	HKH 351	6913	21	8662	10	6544	36	7025	4	1124	16	7286	11	6032	16	5466	8	7397	13	7931	21	6707	14
9	KMH-14-46	7530	12	8323	15	7788	17	8633	1	1029	20	8069	2	5654	18	5375	11	5641	38	6792	33	5865	32
10	AH-7154	7950	7	8441	11	7182	26	3723	36	688	35	6824	20	5494	20	3798	35	6835	24	8836	10	6241	24
11	JH 31816	8038	3	9355	4	7857	15	4757	25	864	25	7502	7	7580	4	4235	32	5522	39	9988	5	6832	11
12	JH 31784	7995	6	7471	22	6747	31	5901	9	917	23	7028	17	7937	2	5937	3	6022	32	8768	12	7166	8
13	FH 3768	7182	18	8674	9	7197	23	5885	10	771	32	7235	12	5604	19	5670	5	10437	2	9781	7	7873	1
14	BAUMC-5	6615	23	7462	23	6362	39	4820	24	1998	7	6315	31	4840	30	4032	34	10578	1	7430	28	6720	13
15	JH 31783	7513	13	9012	6	6642	34	5251	15	897	24	7104	14	6734	9	5204	14	6883	22	9437	8	7064	10
16	KDMH-105	5200	38	7253	28	8325	9	4652	26	1040	19	6358	29	5172	24	3612	38	7054	17	8019	19	5964	27
17	MH 21	5617	34	7264	27	7589	19	4562	28	1242	13	6258	34	4538	33	4450	27	8048	9	6895	32	5983	26
18	JH 31780	6263	29	7638	20	7607	18	3609	37	961	21	6279	32	5138	26	3774	36	6930	20	7680	26	5880	31
19	HKH 352	7259	17	8864	8	8266	11	3832	35	2041	5	7056	16	6150	12	5178	15	6932	19	7854	23	6528	18
20	WH-2093	5554	36	5236	39	8398	8	5011	20	845	27	6050	35	4023	37	3427	40	7281	15	5383	39	5028	39
21	AH-7204	5557	35	6628	34	6367	38	4479	30	2239	3	5758	38	4805	31	4375	29	4850	40	8428	14	5615	36
22	WH-2096	6195	30	5362	38	6849	29	5270	14	354	40	5919	37	3789	39	4835	21	6016	33	7164	30	5451	37
23	MH 22	6765	22	8407	12	6950	27	5131	19	1161	14	6813	21	6662	10	4957	19	6486	28	8140	16	6561	16
24	JH 31794	6566	26	7124	29	8534	5	3531	38	789	31	6439	28	4872	28	4434	28	7670	12	5798	38	5694	34
25	JH 31801	7132	20	7292	26	6426	37	5140	18	2477	1	6498	27	5951	17	5428	9	8160	5	9245	9	7196	7
26	IH-1204	5759	33	6442	35	7287	21	3410	40	813	30	5725	39	4882	27	4981	18	6143	31	7771	24	5944	28
27	KMH-14-55	7579	11	6224	36	6657	33	7864	2	629	36	7081	15	4235	35	5124	16	7910	11	7879	22	6287	22
28	DH-304	7473	14	9019	5	6729	32	6077	7	2008	6	7324	9	7022	8	5654	6	6883	23	11814	1	7843	2

TABLE No. 5 **PERFORMANCE OF EARLY EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, UDHAMPUR, KANGRA, GOSSAIGAON, LUDHIANA, KARNAL, KANPUR, PANTNAGAR, DHOLI, BHUBANESHWAR, RANCHI, VARANASI, BAHRAICH, SABOUR, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, VAGARAI, COIMBATORE, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA IN TRIAL No. TR63-64 (NIVT EARLY+ EXTRA EARLY) DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD YIELD (kg/ha) AT 15% MOISTURE										NHZ ZN 1								NWPZ ZN 2	
		ALMO	R	BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
29	AH-7009R	6068	32	7452	24	8426	7	4272	33	930	22	6555	24	5245	23	3558	39	7054	18	7770	25	5907	30
30	AH9002	7153	19	7725	19	7184	24	5694	11	1994	8	6939	19	7708	3	5573	7	8048	10	7035	31	7091	9
31	IH-0903	6477	28	7427	25	6308	40	4822	23	716	34	6259	33	4871	29	5388	10	6930	21	8024	17	6303	21
32	FH 3765	8037	4	9546	3	8518	6	5185	16	1390	12	7821	4	7135	7	5223	13	7201	16	10907	2	7616	3
33	FH 3771	7938	8	8200	17	8107	13	4908	21	2257	2	7288	10	5423	21	5039	17	6513	27	6704	34	5920	29
34	DH-305	6597	24	7830	18	6604	35	5171	17	743	33	6550	25	4060	36	3615	37	8064	8	7527	27	5816	33
35	BAUM-4	4618	40	4529	40	8128	12	4315	32	838	29	5398	40	3396	40	4768	22	5683	37	5298	40	4786	40
	CHECKS																						
36	Vivek Hybrid 51(C)	7280	16	8238	16	8691	4	6134	6	1725	9	7586	6	5290	22	5305	12	5995	34	8438	13	6257	23
37	Vivek Hybrid 45(C)	7446	15	7499	21	10330	1	6206	5	1126	15	7870	3	7216	6	4662	24	8159	6	7244	29	6820	12
38	PMH5(C)	5109	39	6898	32	9302	2	5921	8	1613	10	6807	22	7405	5	4554	25	6822	25	8010	20	6698	15
39	BIO605(C)	7815	9	8934	7	7237	22	5400	13	552	38	7346	8	6034	15	6082	2	8124	7	9782	6	7505	4
40	DKC 7074(C)	8002	5	10750	1	8998	3	4626	27	2073	4	8094	1	9006	1	4547	26	6164	30	10209	3	7482	5
	Location Mean	**6877**		**7702**		**7559**		**5145**		**1177**		**6821**		**5671**		**4821**		**7072**		**8061**		**6406**	
	C.D. (5%)	1100		610		729		677		1289		779		1298		442		863		1888		1123	
	C.V. (%)	9.84		4.87		5.93		8.1		**67.36**		**-**		14.08		5.64		7.51		14.41		**-**	
	F (Prob)	0		0		0		0		0.056				0		0		0		0			
	Plot Size	4.8		3.6		4.8		2.88		4.8		-		4.8		6		4.8		4.5		-	
	AGRONOMY DATA																						
	Sowing Date	29-06		17-06		9-07		15-06		19-07		-		22-06		25-06		6-08		29-06		-	
	Harvest Date	19-10		5-10		13-10		22-10		5-11		-		30-09		22-09		1-12		6-10		-	
	Irrigation Nos	-		3		-		-		1		-		7		4		2		-		-	
	Ferilizer Applied N	90		120		120		120		120		-		50		150		140		120		-	
	Ferilizer Applied P	60		60		60		60		60		-		24		60		60		60		-	
	Ferilizer Applied K	40		40		40		40		60		-		12		60		50		40		-	

LOCATIONS REJECTED DUE TO HIGH C.V. : GOSS 67.4 %: DHOL 37.6 %

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD YIELD (kg/ha) AT 15% MOISTURE												NEPZ ZN 3												PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	MEAN	R
1	AH-7007	1895	30	3935	35	2625	38	5859	2	4613	13	5067	29	4420	29	5523	19	3582	24	6477	25	8212	6	5571	35	7065	24	6072	22
2	FH 3763	2283	24	4309	26	4419	22	4571	25	3861	25	6198	12	4672	19	7053	5	2965	36	10700	11	6626	15	6857	24	8898	9	7183	11
3	KH-102	4727	1	6180	3	5476	7	4118	36	4329	19	5532	22	5127	10	7732	2	5156	3	10725	10	9826	1	10218	1	10271	2	8988	1
4	IH-0901	1496	39	4175	31	3140	36	5045	14	3745	27	5426	25	4306	33	5833	16	3706	20	6271	27	6271	23	7279	19	7916	18	6213	20
5	IH-0702	1998	27	5143	13	2414	39	4878	17	3765	26	5550	21	4350	31	5056	26	2986	35	7286	22	5804	29	6259	27	6174	31	5594	31
6	KMH-14-50	1696	36	4074	33	1863	40	4222	32	3458	32	4682	34	3660	40	4942	30	4193	13	7505	20	7109	14	6051	32	5895	34	5949	25
7	DMRH 1417	2753	15	6483	1	4902	12	3877	38	4891	7	4902	31	5011	13	2053	40	3323	31	1450	40	4269	38	2853	40	6136	32	3347	40
8	HKH 351	1998	26	4333	24	4775	17	5623	5	4683	10	5910	16	5065	11	5223	24	4756	6	5392	33	7567	9	5922	34	7541	21	6067	24
9	KMH-14-46	3337	6	5041	15	4983	11	5187	12	3384	34	4580	35	4635	21	5789	17	4822	4	6611	24	7169	13	6217	29	6981	26	6265	19
10	AH-7154	3106	10	3734	37	3844	30	4462	28	3251	38	6909	10	4440	28	6444	9	3048	33	11416	3	6000	28	8114	13	8512	11	7256	10
11	JH 31816	1773	34	6186	2	5879	4	5217	10	5562	2	8051	2	6179	1	6156	13	4343	10	5665	31	6615	16	8608	5	7612	20	6500	18
12	JH 31784	2606	16	5670	6	6518	1	6004	1	4688	9	7453	5	6066	2	5765	18	4342	11	3378	38	6410	19	7380	18	7941	17	5870	26
13	FH 3768	1864	32	4695	17	4114	28	5539	6	3255	37	4822	32	4485	27	7299	3	3857	17	10917	8	9007	2	7637	17	10234	3	8158	2
14	BAUMC-5	2863	12	5241	12	5630	5	3934	37	4053	23	3570	40	4485	26	4849	32	3871	16	9089	13	5176	33	6197	30	5040	37	5703	30
15	JH 31783	2781	14	5352	10	5029	10	4740	22	6660	1	8003	3	5957	3	6229	11	4492	9	5537	32	8228	5	7741	16	10326	1	7092	13
16	KDMH-105	3122	9	4238	29	4509	20	4499	26	4083	22	5920	15	4650	20	5361	23	3556	25	10560	12	6098	27	7028	20	8961	8	6927	15
17	MH 21	3268	7	3849	36	3445	33	5461	7	4597	14	5082	28	4487	25	4365	35	3643	23	8256	18	6295	22	6106	31	6422	30	5848	28
18	JH 31780	1655	37	4201	30	5077	9	4824	19	4662	12	5469	23	4847	17	5104	25	2361	38	5898	28	5340	31	8489	9	8012	16	5867	27
19	HKH 352	2502	21	4438	22	4209	27	4686	23	4982	6	4821	33	4627	23	5435	21	3465	28	8778	15	6394	20	8103	14	7086	23	6544	17
20	WH-2093	1457	40	3664	38	3453	32	4163	33	4223	20	4486	37	3998	37	4436	34	3336	30	4847	36	3955	40	6868	23	4486	38	4655	37
21	AH-7204	1839	33	4260	28	4341	24	4270	31	3014	39	6073	14	4392	30	4484	33	3113	32	8676	16	6207	24	6401	26	3877	40	5460	32
22	WH-2096	1769	35	3503	40	3084	37	5193	11	3363	35	5000	30	4029	35	4044	37	3692	21	5381	34	4897	34	5005	37	6024	33	4840	36
23	MH 22	1625	38	4312	25	5405	8	5055	13	5035	4	6141	13	5190	7	5440	20	2814	37	8434	17	5460	30	9024	2	5474	36	6108	21
24	JH 31794	3194	8	4646	18	4889	13	4445	29	3494	30	3667	38	4228	34	4996	27	2318	39	5111	35	4726	36	6013	33	9096	7	5377	34
25	JH 31801	3338	5	5466	8	6103	3	4927	16	3628	28	7279	6	5481	5	6621	8	4765	5	10952	7	8420	4	6901	22	8316	14	7662	6
26	IH-1204	2450	22	4102	32	4372	23	4817	20	3446	33	5807	18	4509	24	4942	29	3025	34	6624	23	4022	39	4884	38	4298	39	4633	38
27	KMH-14-55	1972	28	5998	4	3318	35	5775	3	4544	17	5661	20	5059	12	4278	36	3499	26	5866	29	5333	32	4034	39	6581	28	4932	35
28	DH-304	2406	23	5979	5	4730	19	4802	21	3600	29	7078	8	5238	6	6131	14	5604	1	7741	19	8881	3	8330	11	9983	4	7778	5

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD YIELD (kg/ha) AT 15% MOISTURE												NEPZ ZN 3												PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	MEAN	R
29	AH-7009R	2793	13	3622	39	3969	29	4982	15	4864	8	7107	7	4909	15	6298	10	4590	8	7451	21	7611	8	6836	25	8625	10	6902	16
30	AH9002	2944	11	4858	16	4773	18	4148	34	5293	3	5894	17	4993	14	3958	38	5366	2	10875	9	7433	12	8918	3	9292	6	7640	7
31	IH-0903	1956	29	4294	27	4236	25	4827	18	3280	36	5082	27	4344	32	4993	28	4240	12	6276	26	6305	21	6968	21	7640	19	6070	23
32	FH 3765	2559	18	5319	11	4887	14	-	39	3883	24	4519	36	3726	39	7817	1	3482	27	13581	1	6181	25	7919	15	9766	5	8124	3
33	FH 3771	2550	19	4552	19	4880	15	-	40	4111	21	5724	19	3858	38	6917	6	3664	22	11400	4	6414	18	8625	4	7039	25	7343	8
34	DH-305	2579	17	4529	20	3822	31	5765	4	4556	16	5460	24	4827	18	5374	22	3801	19	5747	30	6454	17	6245	28	6935	27	5759	29
35	BAUM-4	1868	31	4441	21	3328	34	4421	30	4340	18	3607	39	4027	36	3466	39	1865	40	4781	37	4735	35	5117	36	6441	29	4401	39
	CHECKS																												
36	Vivek Hybrid 51(C)	2078	25	5370	9	4868	16	4145	35	4591	15	6943	9	5183	8	4942	31	4004	15	8844	14	7779	7	8495	8	8432	13	7083	14
37	Vivek Hybrid 45(C)	3870	2	4388	23	4444	21	5218	9	2878	40	6214	11	4628	22	6738	7	4115	14	11079	6	4690	37	8522	6	7435	22	7096	12
38	PMH5(C)	3405	3	4016	34	4209	26	5226	8	3471	31	7526	4	4890	16	5929	15	3446	29	2083	39	7446	11	8146	12	5705	35	5459	33
39	BIO605(C)	2544	20	5132	14	6230	2	4470	27	4667	11	5388	26	5177	9	6194	12	3826	18	11144	5	6138	26	8513	7	8118	15	7322	9
40	DKC 7074(C)	3357	4	5582	7	5507	6	4579	24	4990	5	8523	1	5836	4	7115	4	4721	7	12440	2	7495	10	8340	10	8482	12	8099	4
	Location Mean	**2507**		**4733**		**4443**		**4841**		**4195**		**5778**		**4750**		**5533**		**3794**		**7781**		**6475**		**7068**		**7477**		**6355**	
	C.D. (5%)	1531		406		946		516		812		1421		820		796		699		2131		1019		771		921		1056	
	C.V. (%)	**37.56**		5.28		13.1		6.89		11.9		15.12		**-**		8.85		11.34		16.84		9.68		6.71		7.58		**-**	
	F (Prob)	0.013		0		0		0		0		0				0		0		0		0		0		0			
	Plot Size	6		4.8		5.6		4.8		4.8		4.8		-		6		6		4.8		4.8		4.8		4.8		-	
	AGRONOMY DATA																												
	Sowing Date	4-07		19-06		22-07		26-06		23-06		1-07		-		29-06		14-07		28-06		5-08		3-08		6-07		-	
	Harvest Date	23-10		3-10		-		27-09		22-09		20-10		-		19-10		29-10		17-10		23-11		15-11		10-10		-	
	Irrigation Nos	2		-		-		100		-		3		-		4		4		2		8		10		9		-	
	Ferilizer Applied N	120		120		120		60		120		120		-		200		200		150		150		250		250		-	
	Ferilizer Applied P	60		60		60		40		60		60		-		60		60		65		75		75		75		-	
	Ferilizer Applied K	40		60		40		-		60		40		-		50		50		65		40		75		75		-	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD YIELD (kg/ha) AT 15% MOISTURE UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	AH-7007	3652	24	3388	40	4883	34	3249	35	2873	34	3609	36	5313	31
2	FH 3763	4002	18	3946	33	5134	32	5078	18	2877	33	4207	29	5914	16
3	KH-102	5647	3	4982	7	7647	5	8839	1	6120	2	6647	1	7074	2
4	IH-0901	3991	19	4221	26	5560	23	3309	33	3236	28	4063	33	5327	29
5	IH-0702	4984	7	4946	8	5257	28	4241	30	5331	8	4952	14	5446	25
6	KMH-14-50	3958	20	4563	14	5353	27	4661	24	4308	17	4568	22	5054	35
7	DMRH 1417	6338	1	4192	27	6217	13	4736	21	3008	32	4898	15	5313	30
8	HKH 351	2595	38	4275	23	7086	10	6199	11	4748	13	4981	12	5942	15
9	KMH-14-46	4465	10	4324	21	5576	22	4710	23	4044	22	4624	21	5817	19
10	AH-7154	4067	17	4427	18	7287	8	5542	14	5445	6	5353	9	6032	14
11	JH 31816	2943	30	3626	36	6141	14	4533	27	4394	16	4327	27	6203	13
12	JH 31784	5031	6	5009	6	5849	16	7643	4	5017	11	5710	6	6286	12
13	FH 3768	3120	28	4480	16	5023	33	4652	25	4301	18	4315	28	6391	9
14	BAUMC-5	4415	11	4566	13	5709	19	5693	12	3297	27	4736	17	5520	24
15	JH 31783	2654	34	4365	20	7580	6	4334	28	4285	19	4644	19	6343	10
16	KDMH-105	2647	35	4086	28	6506	12	5600	13	4682	14	4704	18	5734	23
17	MH 21	3342	27	4246	24	4752	35	4713	22	3821	23	4175	31	5307	32
18	JH 31780	4287	12	3984	31	5486	25	4762	20	3364	26	4377	26	5415	27
19	HKH 352	4624	8	4578	12	5502	24	5225	16	4458	15	4878	16	5880	18
20	WH-2093	2201	40	3441	38	4106	38	2842	38	1930	39	2904	40	4448	39
21	AH-7204	3022	29	4789	10	5374	26	3308	34	4240	20	4147	32	5039	36
22	WH-2096	3437	26	3866	34	3203	40	2884	37	2854	35	3249	38	4621	38
23	MH 22	2591	39	4462	17	5201	29	6219	9	4175	21	4530	23	5781	21
24	JH 31794	4253	13	4081	29	5892	15	3034	36	3720	24	4196	30	5121	34
25	JH 31801	5127	5	5323	3	6928	11	4786	19	5117	10	5456	7	6476	5
26	IH-1204	3676	23	3952	32	5139	31	2710	39	3121	30	3719	35	4817	37
27	KMH-14-55	2719	32	3474	37	4746	36	4607	26	1166	40	3342	37	5211	33
28	DH-304	4571	9	4078	30	8875	1	7231	5	2464	38	5444	8	6698	3

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD YIELD (kg/ha) AT 15% MOISTURE UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
29	AH-7009R	2917	31	4528	15	5800	18	3934	31	6023	4	4640	20	5792	20
30	AH9002	2615	37	5558	2	7505	7	8174	3	5292	9	5829	5	6503	4
31	IH-0903	5842	2	3805	35	5842	17	3366	32	3433	25	4458	25	5445	26
32	FH 3765	4121	16	5202	4	5180	30	7108	6	3218	29	4966	13	6415	7
33	FH 3771	4219	14	4659	11	5692	20	5536	15	4951	12	5011	11	5885	17
34	DH-305	3648	25	4240	25	4672	37	4260	29	3029	31	3970	34	5334	28
35	BAUM-4	2633	36	4304	22	3239	39	2347	40	2600	36	3025	39	4267	40
	CHECKS														
36	Vivek Hybrid 51(C)	3926	22	6084	1	7982	4	7065	7	5884	5	6188	3	6447	6
37	Vivek Hybrid 45(C)	5554	4	5045	5	8320	3	5079	17	5366	7	5873	4	6410	8
38	PMH5(C)	4202	15	4409	19	5673	21	6201	10	6060	3	5309	10	5740	22
39	BIO605(C)	2668	33	3412	39	7192	9	6773	8	2535	37	4516	24	6325	11
40	DKC 7074(C)	3926	21	4903	9	8626	2	8513	2	6704	1	6534	2	7198	1
	Location Mean	**3866**		**4395**		**5943**		**5092**		**4087**		**4677**		**5757**	
	C.D. (5%)	595		961		965		694		374		718		901	
	C.V. (%)	9.47		13.44		9.98		8.38		4.52		-		-	
	F (Prob)	0		0		0		0		0					
	Plot Size	4.8		4.8		6		4.8		4.8		-		-	
	AGRONOMY DATA														
	Sowing Date	2-07		27-06		17-07		4-07		8-07		-		-	
	Harvest Date	19-10		19-10		2-12		-		25-10		-		-	
	Irrigation Nos	1		-		-		-		-		-		-	
	Ferilizer Applied N	90		150		120		100		-		-		-	
	Ferilizer Applied P	60		80		60		50		120		-		-	
	Ferilizer Applied K	-		-		40		30		60		-		-	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 51(C)																		NWPZ ZN 2	
										NHZ(ZN 1)											
		ALMO	R	BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
1	AH-7007	-		-		-		21.5		-		-		-		-		38.9		4.6		2.5	
2	FH 3763	18.6		1.6		-		-		-		-		23.4		-		-		-		2.4	
3	KH-102	5.9		18.2		-		-		-		1.4		15.5		9.9		4		-		4.7	
4	IH-0901	-		-		-		-		-		-		-		-		9.6		-		-	
5	IH-0702	-		-		-		-		-		-		-		-		40.8		-		-	
6	KMH-14-50	-		-		-		-		-		-		-		-		-		-		-	
7	DMRH 1417	23.8		1.5		-		-		-		-		15		18.9		21.6		20.5		19.2	
8	HKH 351	-		5.1		-		14.5		-		-		14		3		23.4		-		7.2	
9	KMH-14-46	3.4		1		-		40.7		-		6.4		6.9		1.3		-		-		-	
10	AH-7154	9.2		2.5		-		-		-		-		3.9		-		14		4.7		-	
11	JH 31816	10.4		13.6		-		-		-		-		43.3		-		-		18.4		9.2	
12	JH 31784	9.8		-		-		-		-		-		50		11.9		0.4		3.9		14.5	
13	FH 3768	-		5.3		-		-		-		-		5.9		6.9		74.1		15.9		25.8	
14	BAUMC-5	-		-		-		-		15.8		-		-		-		76.4		-		7.4	
15	JH 31783	3.2		9.4		-		-		-		-		27.3		-		14.8		11.8		12.9	
16	KDMH-105	-		-		-		-		-		-		-		-		17.7		-		-	
17	MH 21	-		-		-		-		-		-		-		-		34.2		-		-	
18	JH 31780	-		-		-		-		-		-		-		-		15.6		-		-	
19	HKH 352	-		7.6		-		-		18.3		-		16.3		-		15.6		-		4.3	
20	WH-2093	-		-		-		-		-		-		-		-		21.4		-		-	
21	AH-7204	-		-		-		-		29.8		-		-		-		-		-		-	
22	WH-2096	-		-		-		-		-		-		-		-		0.3		-		-	
23	MH 22	-		2.1		-		-		-		-		25.9		-		8.2		-		4.9	
24	JH 31794	-		-		-		-		-		-		-		-		27.9		-		-	
25	JH 31801	-		-		-		-		43.6		-		12.5		2.3		36.1		9.6		15	
26	IH-1204	-		-		-		-		-		-		-		-		2.5		-		-	
27	KMH-14-55	4.1		-		-		28.2		-		-		-		-		31.9		-		0.5	
28	DH-304	2.6		9.5		-		-		16.4		-		32.8		6.6		14.8		40		25.4	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 51(C)												NHZ(ZN 1)								NWPZ ZN 2	
		ALMO	R	BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
29	AH-7009R	-		-		-		-		-		-		-		-		17.7		-		-	
30	AH9002	-		-		-		-		15.5		-		45.7		5		34.2		-		13.3	
31	IH-0903	-		-		-		-		-		-		-		1.6		15.6		-		0.7	
32	FH 3765	10.4		15.9		-		-		-		3.1		34.9		-		20.1		29.3		21.7	
33	FH 3771	9		-		-		-		30.8		-		2.5		-		8.6		-		-	
34	DH-305	-		-		-		-		-		-		-		-		34.5		-		-	
35	BAUM-4	-		-		-		-		-		-		-		-		-		-		-	
	CHECKS																						
36	Vivek Hybrid 51(C)	-		-		-		-		-		-		-		-		-		-		-	
37	Vivek Hybrid 45(C)	2.3		-		18.8		1.2		-		3.7		36.4		-		36.1		-		9	
38	PMH5(C)	-		-		7		-		-		-		40		-		13.8		-		7	
39	BIO605(C)	7.3		8.5		-		-		-		-		14.1		14.6		35.5		15.9		19.9	
40	DKC 7074(C)	9.9		30.5		3.5		-		20.1		6.7		70.3		-		2.8		21		19.6	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 51(C)										NEPZ ZN 3										PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	MEAN	R
1	AH-7007	-		-		-		41.3		0.5		-		-		11.8		-		-		5.6		-		-		-	
2	FH 3763	9.9		-		-		10.3		-		-		-		42.7		-		21		-		-		5.5		1.4	
3	KH-102	127.5		15.1		12.5		-		-		-		-		56.5		28.8		21.3		26.3		20.3		21.8		26.9	
4	IH-0901	-		-		-		21.7		-		-		-		18		-		-		-		-		-		-	
5	IH-0702	-		-		-		17.7		-		-		-		2.3		-		-		-		-		-		-	
6	KMH-14-50	-		-		-		1.9		-		-		-		0		4.7		-		-		-		-		-	
7	DMRH 1417	32.5		20.7		0.7		-		6.5		-		-		-		-		-		-		-		-		-	
8	HKH 351	-		-		-		35.7		2		-		-		5.7		18.8		-		-		-		-		-	
9	KMH-14-46	60.6		-		2.4		25.2		-		-		-		17.1		20.4		-		-		-		-		-	
10	AH-7154	49.5		-		-		7.6		-		-		-		30.4		-		29.1		-		-		0.9		2.4	
11	JH 31816	-		15.2		20.8		25.9		21.1		15.9		19.2		24.6		8.5		-		-		1.3		-		-	
12	JH 31784	25.4		5.6		33.9		44.9		2.1		7.3		17		16.7		8.4		-		-		-		-		-	
13	FH 3768	-		-		-		33.6		-		-		-		47.7		-		23.4		15.8		-		21.4		15.2	
14	BAUMC-5	37.8		-		15.6		-		-		-		-		-		-		2.8		-		-		-		-	
15	JH 31783	33.8		-		3.3		14.4		45.1		15.3		14.9		26		12.2		-		5.8		-		22.5		0.1	
16	KDMH-105	50.3		-		-		8.5		-		-		-		8.5		-		19.4		-		-		6.3		-	
17	MH 21	57.3		-		-		31.8		0.1		-		-		-		-		-		-		-		-		-	
18	JH 31780	-		-		4.3		16.4		1.5		-		-		3.3		-		-		-		-		-		-	
19	HKH 352	20.4		-		-		13.1		8.5		-		-		10		-		-		-		-		-		-	
20	WH-2093	-		-		-		0.4		-		-		-		-		-		-		-		-		-		-	
21	AH-7204	-		-		-		3		-		-		-		-		-		-		-		-		-		-	
22	WH-2096	-		-		-		25.3		-		-		-		-		-		-		-		-		-		-	
23	MH 22	-		-		11		22		9.7		-		0.1		10.1		-		-		-		6.2		-		-	
24	JH 31794	53.7		-		0.4		7.2		-		-		-		1.1		-		-		-		-		7.9		-	
25	JH 31801	60.7		1.8		25.4		18.9		-		4.8		5.7		34		19		23.8		8.2		-		-		8.2	
26	IH-1204	17.9		-		-		16.2		-		-		-		0		-		-		-		-		-		-	
27	KMH-14-55	-		11.7		-		39.3		-		-		-		-		-		-		-		-		-		-	
28	DH-304	15.8		11.3		-		15.8		-		1.9		1		24.1		40		-		14.2		-		18.4		9.8	

TABLE No. 5 (Contd.)

		GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 51(C)												NEPZ														PZ	
Sl														ZN 3														ZN 4	
No	PEDIGREE	DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	MEAN	R
29	AH-7009R	34.4		-		-		20.2		6		2.4		-		27.4		14.6		-		-		-		2.3		-	
30	AH9002	41.7		-		-		0.1		15.3		-		-		-		34		23		-		5		10.2		7.9	
31	IH-0903	-		-		-		16.5		-		-		-		1		5.9		-		-		-		-		-	
32	FH 3765	23.1		-		0.4		-		-		-		-		58.2		-		53.6		-		-		15.8		14.7	
33	FH 3771	22.7		-		0.2		-		-		-		-		40		-		28.9		-		1.5		-		3.7	
34	DH-305	24.1		-		-		39.1		-		-		-		8.8		-		-		-		-		-		-	
35	BAUM-4	-		-		-		6.7		-		-		-		-		-		-		-		-		-		-	
	CHECKS																												
36	Vivek Hybrid 51(C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
37	Vivek Hybrid 45(C)	86.2		-		-		25.9		-		-		-		36.3		2.8		25.3		-		0.3		-		0.2	
38	PMH5(C)	63.9		-		-		26.1		-		8.4		-		20		-		-		-		-		-		-	
39	BIO605(C)	22.4		-		28		7.8		1.7		-		-		25.4		-		26		-		0.2		-		3.4	
40	DKC 7074(C)	61.6		3.9		13.1		10.5		8.7		22.7		12.6		44		17.9		40.7		-		-		0.6		14.3	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 51(C)															
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	(CWZ)ZN 5 MEAN	R	OV'L MEAN	R
1	AH-7007	-		-		-		-		-		-		-	
2	FH 3763	1.9		-		-		-		-		-		-	
3	KH-102	43.8		-		-		25.1		4		7.4		9.7	
4	IH-0901	1.6		-		-		-		-		-		-	
5	IH-0702	26.9		-		-		-		-		-		-	
6	KMH-14-50	0.8		-		-		-		-		-		-	
7	DMRH 1417	61.4		-		-		-		-		-		-	
8	HKH 351	-		-		-		-		-		-		-	
9	KMH-14-46	13.7		-		-		-		-		-		-	
10	AH-7154	3.6		-		-		-		-		-		-	
11	JH 31816	-		-		-		-		-		-		-	
12	JH 31784	28.1		-		-		8.2		-		-		-	
13	FH 3768	-		-		-		-		-		-		-	
14	BAUMC-5	12.5		-		-		-		-		-		-	
15	JH 31783	-		-		-		-		-		-		-	
16	KDMH-105	-		-		-		-		-		-		-	
17	MH 21	-		-		-		-		-		-		-	
18	JH 31780	9.2		-		-		-		-		-		-	
19	HKH 352	17.8		-		-		-		-		-		-	
20	WH-2093	-		-		-		-		-		-		-	
21	AH-7204	-		-		-		-		-		-		-	
22	WH-2096	-		-		-		-		-		-		-	
23	MH 22	-		-		-		-		-		-		-	
24	JH 31794	8.3		-		-		-		-		-		-	
25	JH 31801	30.6		-		-		-		-		-		0.5	
26	IH-1204	-		-		-		-		-		-		-	
27	KMH-14-55	-		-		-		-		-		-		-	
28	DH-304	16.4		-		11.2		2.4		-		-		3.9	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 51(C) UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	(CWZ)ZN 5 MEAN	R	OV'L MEAN	R
29	AH-7009R	-		-		-		-		2.4		-		-	
30	AH9002	-		-		-		15.7		-		-		0.9	
31	IH-0903	48.8		-		-		-		-		-		-	
32	FH 3765	5		-		-		0.6		-		-		-	
33	FH 3771	7.5		-		-		-		-		-		-	
34	DH-305	-		-		-		-		-		-		-	
35	BAUM-4	-		-		-		-		-		-		-	
	CHECKS														
36	Vivek Hybrid 51(C)	-		-		-		-		-		-		-	
37	Vivek Hybrid 45(C)	41.5		-		4.2		-		-		-		-	
38	PMH5(C)	7		-		-		-		3		-		-	
39	BIO605(C)	-		-		-		-		-		-		-	
40	DKC 7074(C)	0		-		8.1		20.5		13.9		5.6		11.6	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 45(C)																		NWPZ ZN 2	
										NHZ(ZN 1)											
		ALMO	R	BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
1	AH-7007	-		-		-		20.1		-		-		-		-		2.1		21.9		-	
2	FH 3763	16		11.6		-		-		-		-		-		6.1		-		14.5		-	
3	KH-102	3.5		29.8		-		-		-		-		-		25.1		-		10.8		-	
4	IH-0901	-		-		-		-		-		-		-		1		-		-		-	
5	IH-0702	-		-		-		-		27		-		-		-		3.5		-		-	
6	KMH-14-50	-		-		-		-		-		-		-		-		-		-		-	
7	DMRH 1417	21		11.5		-		-		-		-		-		35.3		-		40.3		9.4	
8	HKH 351	-		15.5		-		13.2		-		-		-		17.2		-		9.5		-	
9	KMH-14-46	1.1		11		-		39.1		-		2.5		-		15.3		-		-		-	
10	AH-7154	6.8		12.6		-		-		-		-		-		-		-		22		-	
11	JH 31816	8		24.8		-		-		-		-		5		-		-		37.9		0.2	
12	JH 31784	7.4		-		-		-		-		-		10		27.4		-		21		5.1	
13	FH 3768	-		15.7		-		-		-		-		-		21.6		27.9		35		15.4	
14	BAUMC-5	-		-		-		-		77.5		-		-		-		29.7		2.6		-	
15	JH 31783	0.9		20.2		-		-		-		-		-		11.6		-		30.3		3.6	
16	KDMH-105	-		-		-		-		-		-		-		-		-		10.7		-	
17	MH 21	-		-		-		-		10.3		-		-		-		-		-		-	
18	JH 31780	-		1.8		-		-		-		-		-		-		-		6		-	
19	HKH 352	-		18.2		-		-		81.2		-		-		11.1		-		8.4		-	
20	WH-2093	-		-		-		-		-		-		-		-		-		-		-	
21	AH-7204	-		-		-		-		98.8		-		-		-		-		16.4		-	
22	WH-2096	-		-		-		-		-		-		-		3.7		-		-		-	
23	MH 22	-		12.1		-		-		3.1		-		-		6.3		-		12.4		-	
24	JH 31794	-		-		-		-		-		-		-		-		-		-		-	
25	JH 31801	-		-		-		-		120		-		-		16.4		0		27.6		5.5	
26	IH-1204	-		-		-		-		-		-		-		6.9		-		7.3		-	
27	KMH-14-55	1.8		-		-		26.7		-		-		-		9.9		-		8.8		-	
28	DH-304	0.4		20.3		-		-		78.4		-		-		21.3		-		63.1		15	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 45(C)																		NWPZ ZN 2	
										NHZ(ZN 1)											
		ALMO	R	BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
29	AH-7009R	-		-		-		-		-		-		-		-		-		7.3		-	
30	AH9002	-		3		-		-		77		-		6.8		19.5		-		-		4	
31	IH-0903	-		-		-		-		-		-		-		15.6		-		10.8		-	
32	FH 3765	7.9		27.3		-		-		23.5		-		-		12		-		50.6		11.7	
33	FH 3771	6.6		9.3		-		-		100.4		-		-		8.1		-		-		-	
34	DH-305	-		4.4		-		-		-		-		-		-		-		3.9		-	
35	BAUM-4	-		-		-		-		-		-		-		2.3		-		-		-	
	CHECKS																						
36	Vivek Hybrid 51(C)	-		9.8		-		-		53.2		-		-		13.8		-		16.5		-	
37	Vivek Hybrid 45(C)	-		-		-		-		-		-		-		-		-		-		-	
38	PMH5(C)	-		-		-		-		43.3		-		2.6		-		-		10.6		-	
39	BIO605(C)	5		19.1		-		-		-		-		-		30.5		-		35		10	
40	DKC 7074(C)	7.5		43.3		-		-		84.1		2.8		24.8		-		-		40.9		9.7	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 45(C)										NEPZ ZN 3 MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	PZ ZN 4 MEAN	R
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R																
1	AH-7007	-		-		-		12.3		60.3		-		-		-		-		-		75.1		-		-		-	
2	FH 3763	-		-		-		-		34.2		-		0.9		4.7		-		-		41.3		-		19.7		1.2	
3	KH-102	22.1		40.8		23.2		-		50.4		-		10.8		14.7		25.3		-		109.5		19.9		38.2		26.7	
4	IH-0901	-		-		-		-		30.1		-		-		-		-		-		33.7		-		6.5		-	
5	IH-0702	-		17.2		-		-		30.8		-		-		-		-		-		23.8		-		-		-	
6	KMH-14-50	-		-		-		-		20.2		-		-		-		1.9		-		51.6		-		-		-	
7	DMRH 1417	-		47.7		10.3		-		70		-		8.3		-		-		-		-		-		-		-	
8	HKH 351	-		-		7.5		7.8		62.7		-		9.4		-		15.6		-		61.3		-		1.4		-	
9	KMH-14-46	-		14.9		12.1		-		17.6		-		0.1		-		17.2		-		52.9		-		-		-	
10	AH-7154	-		-		-		-		13		11.2		-		-		-		3		27.9		-		14.5		2.2	
11	JH 31816	-		41		32.3		-		93.3		29.6		33.5		-		5.6		-		41		1		2.4		-	
12	JH 31784	-		29.2		46.7		15.1		62.9		19.9		31.1		-		5.5		-		36.7		-		6.8		-	
13	FH 3768	-		7		-		6.2		13.1		-		-		8.3		-		-		92		-		37.7		15	
14	BAUMC-5	-		19.4		26.7		-		40.8		-		-		-		-		-		10.4		-		-		-	
15	JH 31783	-		22		13.2		-		131.4		28.8		28.7		-		9.2		-		75.4		-		38.9		-	
16	KDMH-105	-		-		1.5		-		41.9		-		0.5		-		-		-		30		-		20.5		-	
17	MH 21	-		-		-		4.7		59.7		-		-		-		-		-		34.2		-		-		-	
18	JH 31780	-		-		14.2		-		62		-		4.7		-		-		-		13.9		-		7.8		-	
19	HKH 352	-		1.1		-		-		73.1		-		-		-		-		-		36.3		-		-		-	
20	WH-2093	-		-		-		-		46.7		-		-		-		-		-		-		-		-		-	
21	AH-7204	-		-		-		-		4.7		-		-		-		-		-		32.3		-		-		-	
22	WH-2096	-		-		-		-		16.8		-		-		-		-		-		4.4		-		-		-	
23	MH 22	-		-		21.6		-		75		-		12.1		-		-		-		16.4		5.9		-		-	
24	JH 31794	-		5.9		10		-		21.4		-		-		-		-		-		0.8		-		22.4		-	
25	JH 31801	-		24.6		37.3		-		26.1		17.1		18.4		-		15.8		-		79.5		-		11.9		8	
26	IH-1204	-		-		-		-		19.7		-		-		-		-		-		-		-		-		-	
27	KMH-14-55	-		36.7		-		10.7		57.9		-		9.3		-		-		-		13.7		-		-		-	
28	DH-304	-		36.3		6.4		-		25.1		13.9		13.2		-		36.2		-		89.4		-		34.3		9.6	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 45(C)										NEPZ ZN 3										PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	MEAN	R
29	AH-7009R	-		-		-		-		69		14.4		6.1		-		11.5		-		62.3		-		16		-	
30	AH9002	-		10.7		7.4		-		83.9		-		7.9		-		30.4		-		58.5		4.6		25		7.7	
31	IH-0903	-		-		-		-		14		-		-		-		3		-		34.4		-		2.8		-	
32	FH 3765	-		21.2		10		-		34.9		-		-		16		-		22.6		31.8		-		31.4		14.5	
33	FH 3771	-		3.7		9.8		-		42.8		-		-		2.7		-		2.9		36.8		1.2		-		3.5	
34	DH-305	-		3.2		-		10.5		58.3		-		4.3		-		-		-		37.6		-		-		-	
35	BAUM-4	-		1.2		-		-		50.8		-		-		-		-		-		1		-		-		-	
	CHECKS																												
36	Vivek Hybrid 51(C)	-		22.4		9.5		-		59.5		11.7		12		-		-		-		65.9		-		13.4		-	
37	Vivek Hybrid 45(C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
38	PMH5(C)	-		-		-		0.2		20.6		21.1		5.6		-		-		-		58.8		-		-		-	
39	BIO605(C)	-		17		40.2		-		62.2		-		11.9		-		-		0.6		30.9		-		9.2		3.2	
40	DKC 7074(C)	-		27.2		23.9		-		73.4		37.2		26.1		5.6		14.7		12.3		59.8		-		14.1		14.1	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 45(C)													
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	(CWZ)ZN 5 MEAN	R	OV'L MEAN	R
1	AH-7007	-		-		-		-		-		-		-	
2	FH 3763	-		-		-		-		-		-		-	
3	KH-102	1.7		-		-		74		14.1		13.2		10.4	
4	IH-0901	-		-		-		-		-		-		-	
5	IH-0702	-		-		-		-		-		-		-	
6	KMH-14-50	-		-		-		-		-		-		-	
7	DMRH 1417	14.1		-		-		-		-		-		-	
8	HKH 351	-		-		-		22.1		-		-		-	
9	KMH-14-46	-		-		-		-		-		-		-	
10	AH-7154	-		-		-		9.1		1.5		-		-	
11	JH 31816	-		-		-		-		-		-		-	
12	JH 31784	-		-		-		50.5		-		-		-	
13	FH 3768	-		-		-		-		-		-		-	
14	BAUMC-5	-		-		-		12.1		-		-		-	
15	JH 31783	-		-		-		-		-		-		-	
16	KDMH-105	-		-		-		10.3		-		-		-	
17	MH 21	-		-		-		-		-		-		-	
18	JH 31780	-		-		-		-		-		-		-	
19	HKH 352	-		-		-		2.9		-		-		-	
20	WH-2093	-		-		-		-		-		-		-	
21	AH-7204	-		-		-		-		-		-		-	
22	WH-2096	-		-		-		-		-		-		-	
23	MH 22	-		-		-		22.4		-		-		-	
24	JH 31794	-		-		-		-		-		-		-	
25	JH 31801	-		5.5		-		-		-		-		1	
26	IH-1204	-		-		-		-		-		-		-	
27	KMH-14-55	-		-		-		-		-		-		-	
28	DH-304	-		-		6.7		42.4		-		-		4.5	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 45(C)															
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	(CWZ)ZN 5 MEAN	R	OV'L MEAN	R
29	AH-7009R	-		-		-		-		12.2		-		-	
30	AH9002	-		10.2		-		60.9		-		-		1.4	
31	IH-0903	5.2		-		-		-		-		-		-	
32	FH 3765	-		3.1		-		40		-		-		0.1	
33	FH 3771	-		-		-		9		-		-		-	
34	DH-305	-		-		-		-		-		-		-	
35	BAUM-4	-		-		-		-		-		-		-	
	CHECKS														
36	Vivek Hybrid 51(C)	-		20.6		-		39.1		9.7		5.4		0.6	
37	Vivek Hybrid 45(C)	-		-		-		-		-		-		-	
38	PMH5(C)	-		-		-		22.1		12.9		-		-	
39	BIO605(C)	-		-		-		33.3		-		-		-	
40	DKC 7074(C)	-		-		3.7		67.6		25		11.3		12.3	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH5(C)																		NWPZ ZN 2	
										NHZ(ZN 1)											
		ALMO	R	BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
1	AH-7007	4.8		-		-		25.9		-		-		-		-		22.1		10.2		-	
2	FH 3763	69		21.3		-		-		-		5.8		-		8.6		-		3.6		-	
3	KH-102	50.9		41.1		-		-		-		13		-		28.1		-		0.2		-	
4	IH-0901	29.1		2.6		-		-		-		-		-		3.4		-		-		-	
5	IH-0702	27.1		-		-		-		-		-		-		-		23.7		-		-	
6	KMH-14-50	19.1		0		-		-		-		-		-		-		-		-		-	
7	DMRH 1417	76.4		21.2		-		-		-		3		-		38.5		6.9		26.9		11.4	
8	HKH 351	35.3		25.6		-		18.6		-		7		-		20		8.4		-		0.1	
9	KMH-14-46	47.4		20.7		-		45.8		-		18.5		-		18		-		-		-	
10	AH-7154	55.6		22.4		-		-		-		0.2		-		-		0.2		10.3		-	
11	JH 31816	57.3		35.6		-		-		-		10.2		2.4		-		-		24.7		2	
12	JH 31784	56.5		8.3		-		-		-		3.2		7.2		30.4		-		9.5		7	
13	FH 3768	40.6		25.7		-		-		-		6.3		-		24.5		53		22.1		17.5	
14	BAUMC-5	29.5		8.2		-		-		23.9		-		-		-		55.1		-		0.3	
15	JH 31783	47.1		30.6		-		-		-		4.4		-		14.3		0.9		17.8		5.5	
16	KDMH-105	1.8		5.1		-		-		-		-		-		-		3.4		0.1		-	
17	MH 21	10		5.3		-		-		-		-		-		-		18		-		-	
18	JH 31780	22.6		10.7		-		-		-		-		-		-		1.6		-		-	
19	HKH 352	42.1		28.5		-		-		26.5		3.6		-		13.7		1.6		-		-	
20	WH-2093	8.7		-		-		-		-		-		-		-		6.7		-		-	
21	AH-7204	8.8		-		-		-		38.7		-		-		-		-		5.2		-	
22	WH-2096	21.3		-		-		-		-		-		-		6.2		-		-		-	
23	MH 22	32.4		21.9		-		-		-		0.1		-		8.8		-		1.6		-	
24	JH 31794	28.5		3.3		-		-		-		-		-		-		12.4		-		-	
25	JH 31801	39.6		5.7		-		-		53.5		-		-		19.2		19.6		15.4		7.4	
26	IH-1204	12.7		-		-		-		-		-		-		9.4		-		-		-	
27	KMH-14-55	48.4		-		-		32.8		-		4		-		12.5		16		-		-	
28	DH-304	46.3		30.7		-		2.6		24.5		7.6		-		24.2		0.9		47.5		17.1	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH5(C)																NWPZ ZN 2	
										NHZ(ZN 1)									
		ALMO	R	BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
29	AH-7009R	18.8		8		-		-		-		-		-		-		3.4		-		-	
30	AH9002	40		12		-		-		23.6		1.9		4.1		22.4		18		-		5.9	
31	IH-0903	26.8		7.7		-		-		-		-		-		18.3		1.6		0.2		-	
32	FH 3765	57.3		38.4		-		-		-		14.9		-		14.7		5.6		36.2		13.7	
33	FH 3771	55.4		18.9		-		-		39.9		7.1		-		10.7		-		-		-	
34	DH-305	29.1		13.5		-		-		-		-		-		-		18.2		-		-	
35	BAUM-4	-		-		-		-		-		-		-		4.7		-		-		-	
	CHECKS																						
36	Vivek Hybrid 51(C)	42.5		19.4		-		3.6		6.9		11.4		-		16.5		-		5.3		-	
37	Vivek Hybrid 45(C)	45.7		8.7		11.1		4.8		-		15.6		-		2.4		19.6		-		1.8	
38	PMH5(C)	-		-		-		-		-		-		-		-		-		-		-	
39	BIO605(C)	53		29.5		-		-		-		7.9		-		33.6		19.1		22.1		12.1	
40	DKC 7074(C)	56.6		55.8		-		-		28.5		18.9		21.6		-		-		27.5		11.7	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH5(C)										NEPZ ZN 3										PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	MEAN	R
1	AH-7007	-		-		-		12.1		32.9		-		-		-		4		211		10.3		-		23.8		11.2	
2	FH 3763	-		7.3		5		-		11.2		-		-		18.9		-		413.8		-		-		56		31.6	
3	KH-102	38.8		53.9		30.1		-		24.7		-		4.9		30.4		49.6		415		32		25.4		80.1		64.6	
4	IH-0901	-		4		-		-		7.9		-		-		-		7.5		201.1		-		-		38.8		13.8	
5	IH-0702	-		28.1		-		-		8.5		-		-		-		-		249.9		-		-		8.2		2.5	
6	KMH-14-50	-		1.5		-		-		-		-		-		-		21.7		260.4		-		-		3.3		9	
7	DMRH 1417	-		61.4		16.5		-		40.9		-		2.5		-		-		-		-		-		7.6		-	
8	HKH 351	-		7.9		13.4		7.6		34.9		-		3.6		-		38		158.9		1.6		-		32.2		11.1	
9	KMH-14-46	-		25.5		18.4		-		-		-		-		-		40		217.4		-		-		22.4		14.8	
10	AH-7154	-		-		-		-		-		-		-		8.7		-		448.2		-		-		49.2		32.9	
11	JH 31816	-		54		39.7		-		60.2		7		26.4		3.8		26		172		-		5.7		33.4		19.1	
12	JH 31784	-		41.2		54.9		14.9		35.1		-		24.1		-		26		62.2		-		-		39.2		7.5	
13	FH 3768	-		16.9		-		6		-		-		-		23.1		11.9		424.2		21		-		79.4		49.4	
14	BAUMC-5	-		30.5		33.7		-		16.8		-		-		-		12.3		336.4		-		-		-		4.5	
15	JH 31783	-		33.3		19.5		-		91.9		6.3		21.8		5		30.4		165.9		10.5		-		81		29.9	
16	KDMH-105	-		5.5		7.1		-		17.6		-		-		-		3.2		407		-		-		57.1		26.9	
17	MH 21	-		-		-		4.5		32.5		-		-		-		5.7		296.4		-		-		12.6		7.1	
18	JH 31780	-		4.6		20.6		-		34.3		-		-		-		-		183.2		-		4.2		40.4		7.5	
19	HKH 352	-		10.5		-		-		43.5		-		-		-		0.6		321.5		-		-		24.2		19.9	
20	WH-2093	-		-		-		-		21.7		-		-		-		-		132.7		-		-		-		-	
21	AH-7204	-		6.1		3.1		-		-		-		-		-		-		316.6		-		-		-		0	
22	WH-2096	-		-		-		-		-		-		-		-		7.1		158.4		-		-		5.6		-	
23	MH 22	-		7.4		28.4		-		45.1		-		6.1		-		-		304.9		-		10.8		-		11.9	
24	JH 31794	-		15.7		16.2		-		0.7		-		-		-		-		145.4		-		-		59.5		-	
25	JH 31801	-		36.1		45		-		4.5		-		12.1		11.7		38.3		425.9		13.1		-		45.8		40.4	
26	IH-1204	-		2.1		3.9		-		-		-		-		-		-		218.1		-		-		-		-	
27	KMH-14-55	-		49.4		-		10.5		30.9		-		3.5		-		1.6		181.7		-		-		15.4		-	
28	DH-304	-		48.9		12.4		-		3.7		-		7.1		3.4		62.6		271.7		19.3		2.3		75		42.5	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH5(C)										NEPZ ZN 3										PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	MEAN	R
29	AH-7009R	-		-		-		-		40.1		-		0.4		6.2		33.2		257.7		2.2		-		51.2		26.4	
30	AH9002	-		21		13.4		-		52.5		-		2.1		-		55.7		422.2		-		9.5		62.9		40	
31	IH-0903	-		6.9		0.6		-		-		-		-		-		23		201.3		-		-		33.9		11.2	
32	FH 3765	-		32.5		16.1		-		11.9		-		-		31.8		1		552.1		-		-		71.2		48.8	
33	FH 3771	-		13.4		15.9		-		18.4		-		-		16.7		6.3		447.4		-		5.9		23.4		34.5	
34	DH-305	-		12.8		-		10.3		31.3		-		-		-		10.3		176		-		-		21.6		5.5	
35	BAUM-4	-		10.6		-		-		25		-		-		-		-		129.6		-		-		12.9		-	
	CHECKS																												
36	Vivek Hybrid 51(C)	-		33.7		15.7		-		32.3		-		6		-		16.2		324.6		4.5		4.3		47.8		29.7	
37	Vivek Hybrid 45(C)	13.7		9.3		5.6		-		-		-		-		13.6		19.4		432		-		4.6		30.3		30	
38	PMH5(C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
39	BIO605(C)	-		27.8		48		-		34.5		-		5.9		4.5		11		435.1		-		4.5		42.3		34.1	
40	DKC 7074(C)	-		39		30.8		-		43.8		13.2		19.4		20		37		497.3		0.7		2.4		48.7		48.4	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH5(C) UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	AH-7007	-		-		-		-		-		-		-	
2	FH 3763	-		-		-		-		-		-		3	
3	KH-102	34.4		13		34.8		42.5		1		25.2		23.2	
4	IH-0901	-		-		-		-		-		-		-	
5	IH-0702	18.6		12.2		-		-		-		-		-	
6	KMH-14-50	-		3.5		-		-		-		-		-	
7	DMRH 1417	50.8		-		9.6		-		-		-		-	
8	HKH 351	-		-		24.9		-		-		-		3.5	
9	KMH-14-46	6.3		-		-		-		-		-		1.3	
10	AH-7154	-		0.4		28.5		-		-		0.8		5.1	
11	JH 31816	-		-		8.3		-		-		-		8.1	
12	JH 31784	19.7		13.6		3.1		23.3		-		7.5		9.5	
13	FH 3768	-		1.6		-		-		-		-		11.3	
14	BAUMC-5	5.1		3.5		0.6		-		-		-		-	
15	JH 31783	-		-		33.6		-		-		-		10.5	
16	KDMH-105	-		-		14.7		-		-		-		-	
17	MH 21	-		-		-		-		-		-		-	
18	JH 31780	2		-		-		-		-		-		-	
19	HKH 352	10		3.8		-		-		-		-		2.4	
20	WH-2093	-		-		-		-		-		-		-	
21	AH-7204	-		8.6		-		-		-		-		-	
22	WH-2096	-		-		-		-		-		-		-	
23	MH 22	-		1.2		-		0.3		-		-		0.7	
24	JH 31794	1.2		-		3.9		-		-		-		-	
25	JH 31801	22		20.7		22.1		-		-		2.8		12.8	
26	IH-1204	-		-		-		-		-		-		-	
27	KMH-14-55	-		-		-		-		-		-		-	
28	DH-304	8.8		-		56.4		16.6		-		2.5		16.7	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH5(C) UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
29	AH-7009R	-		2.7		2.2		-		-		-		0.9	
30	AH9002	-		26.1		32.3		31.8		-		9.8		13.3	
31	IH-0903	39		-		3		-		-		-		-	
32	FH 3765	-		18		-		14.6		-		-		11.8	
33	FH 3771	0.4		5.7		0.3		-		-		-		2.5	
34	DH-305	-		-		-		-		-		-		-	
35	BAUM-4	-		-		-		-		-		-		-	
	CHECKS														
36	Vivek Hybrid 51(C)	-		38		40.7		13.9		-		16.6		12.3	
37	Vivek Hybrid 45(C)	32.2		14.4		46.7		-		-		10.6		11.7	
38	PMH5(C)	-		-		-		-		-		-		-	
39	BIO605(C)	-		-		26.8		9.2		-		-		10.2	
40	DKC 7074(C)	-		11.2		52.1		37.3		10.6		23.1		25.4	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO605(C)																NWPZ ZN 2	
										NHZ(ZN 1)									
		ALMO	R	BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
1	AH-7007	-		-		-		38		89.2		-		-		-		2.5		-		-	
2	FH 3763	10.5		-		1.6		-		0.9		-		8.2		-		-		-		-	
3	KH-102	-		9		7.7		2.6		96.5		4.8		1.2		-		-		-		-	
4	IH-0901	-		-		8.8		-		52.5		-		-		-		-		-		-	
5	IH-0702	-		-		14.9		-		159		-		-		-		3.9		-		-	
6	KMH-14-50	-		-		-		-		-		-		-		-		-		-		-	
7	DMRH 1417	15.3		-		-		-		55.2		-		0.8		3.7		-		3.9		-	
8	HKH 351	-		-		-		30.1		103.6		-		-		-		-		-		-	
9	KMH-14-46	-		-		7.6		59.9		86.4		9.8		-		-		-		-		-	
10	AH-7154	1.7		-		-		-		24.6		-		-		-		-		-		-	
11	JH 31816	2.9		4.7		8.6		-		56.5		2.1		25.6		-		-		2.1		-	
12	JH 31784	2.3		-		-		9.3		66.1		-		31.5		-		-		-		-	
13	FH 3768	-		-		-		9		39.6		-		-		-		28.5		-		4.9	
14	BAUMC-5	-		-		-		-		261.9		-		-		-		30.2		-		-	
15	JH 31783	-		0.9		-		-		62.5		-		11.6		-		-		-		-	
16	KDMH-105	-		-		15		-		88.3		-		-		-		-		-		-	
17	MH 21	-		-		4.9		-		124.9		-		-		-		-		-		-	
18	JH 31780	-		-		5.1		-		74		-		-		-		-		-		-	
19	HKH 352	-		-		14.2		-		269.6		-		1.9		-		-		-		-	
20	WH-2093	-		-		16		-		53.1		-		-		-		-		-		-	
21	AH-7204	-		-		-		-		305.5		-		-		-		-		-		-	
22	WH-2096	-		-		-		-		-		-		-		-		-		-		-	
23	MH 22	-		-		-		-		110.3		-		10.4		-		-		-		-	
24	JH 31794	-		-		17.9		-		43		-		-		-		-		-		-	
25	JH 31801	-		-		-		-		348.6		-		-		-		0.4		-		-	
26	IH-1204	-		-		0.7		-		47.2		-		-		-		-		-		-	
27	KMH-14-55	-		-		-		45.6		13.9		-		-		-		-		-		-	
28	DH-304	-		1		-		12.5		263.8		-		16.4		-		-		20.8		4.5	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO605(C)																NWPZ ZN 2	
										NHZ(ZN 1)									
		ALMO	R	BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
29	AH-7009R	-		-		16.4		-		68.4		-		-		-		-		-		-	
30	AH9002	-		-		-		5.4		261.1		-		27.8		-		-		-		-	
31	IH-0903	-		-		-		-		29.6		-		-		-		-		-		-	
32	FH 3765	2.8		6.8		17.7		-		151.8		6.5		18.2		-		-		11.5		1.5	
33	FH 3771	1.6		-		12		-		308.8		-		-		-		-		-		-	
34	DH-305	-		-		-		-		34.6		-		-		-		-		-		-	
35	BAUM-4	-		-		12.3		-		51.9		-		-		-		-		-		-	
	CHECKS																						
36	Vivek Hybrid 51(C)	-		-		20.1		13.6		212.5		3.3		-		-		-		-		-	
37	Vivek Hybrid 45(C)	-		-		42.7		14.9		103.9		7.1		19.6		-		0.4		-		-	
38	PMH5(C)	-		-		28.5		9.6		192.2		-		22.7		-		-		-		-	
39	BIO605(C)	-		-		-		-		-		-		-		-		-		-		-	
40	DKC 7074(C)	2.4		20.3		24.3		-		275.4		10.2		49.3		-		-		4.4		-	

TABLE No. 5 (Contd.)

		GRAIN YIELD % SUPERIORITY OVER THE BIO605(C)												NEPZ														PZ	
Sl														ZN 3														ZN 4	
No	PEDIGREE	DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	MEAN	R
1	AH-7007	-		-		-		31.1		-		-		-		-		-		-		33.8		-		-		-	
2	FH 3763	-		-		-		2.3		-		15		-		13.9		-		-		7.9		-		9.6		-	
3	KH-102	85.8		20.4		-		-		-		2.7		-		24.8		34.7		-		60.1		20		26.5		22.7	
4	IH-0901	-		-		-		12.9		-		0.7		-		-		-		-		2.2		-		-		-	
5	IH-0702	-		0.2		-		9.1		-		3		-		-		-		-		-		-		-		-	
6	KMH-14-50	-		-		-		-		-		-		-		-		9.6		-		15.8		-		-		-	
7	DMRH 1417	8.2		26.3		-		-		4.8		-		-		-		-		-		-		-		-		-	
8	HKH 351	-		-		-		25.8		0.3		9.7		-		-		24.3		-		23.3		-		-		-	
9	KMH-14-46	31.1		-		-		16.1		-		-		-		-		26		-		16.8		-		-		-	
10	AH-7154	22.1		-		-		-		-		28.2		-		4		-		2.4		-		-		4.9		-	
11	JH 31816	-		20.5		-		16.7		19.2		49.4		19.3		-		13.5		-		7.8		1.1		-		-	
12	JH 31784	2.4		10.5		4.6		34.3		0.4		38.3		17.2		-		13.5		-		4.4		-		-		-	
13	FH 3768	-		-		-		23.9		-		-		-		17.8		0.8		-		46.7		-		26.1		11.4	
14	BAUMC-5	12.5		2.1		-		-		-		-		-		-		1.2		-		-		-		-		-	
15	JH 31783	9.3		4.3		-		6.1		42.7		48.5		15.1		0.6		17.4		-		34		-		27.2		-	
16	KDMH-105	22.7		-		-		0.6		-		9.9		-		-		-		-		-		-		10.4		-	
17	MH 21	28.5		-		-		22.2		-		-		-		-		-		-		2.5		-		-		-	
18	JH 31780	-		-		-		7.9		-		1.5		-		-		-		-		-		-		-		-	
19	HKH 352	-		-		-		4.8		6.7		-		-		-		-		-		4.2		-		-		-	
20	WH-2093	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
21	AH-7204	-		-		-		-		-		12.7		-		-		-		-		1.1		-		-		-	
22	WH-2096	-		-		-		16.2		-		-		-		-		-		-		-		-		-		-	
23	MH 22	-		-		-		13.1		7.9		14		0.2		-		-		-		-		6		-		-	
24	JH 31794	25.5		-		-		-		-		-		-		-		-		-		-		-		12		-	
25	JH 31801	31.2		6.5		-		10.2		-		35.1		5.9		6.9		24.5		-		37.2		-		2.4		4.6	
26	IH-1204	-		-		-		7.8		-		7.8		-		-		-		-		-		-		-		-	
27	KMH-14-55	-		16.9		-		29.2		-		5.1		-		-		-		-		-		-		-		-	
28	DH-304	-		16.5		-		7.4		-		31.4		1.2		-		46.5		-		44.7		-		23		6.2	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO605(C)										NEPZ ZN 3										PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	MEAN	R
29	AH-7009R	9.8		-		-		11.4		4.2		31.9		-		1.7		19.9		-		24		-		6.2		-	
30	AH9002	15.7		-		-		-		13.4		9.4		-		-		40.2		-		21.1		4.8		14.5		4.3	
31	IH-0903	-		-		-		8		-		-		-		-		10.8		-		2.7		-		-		-	
32	FH 3765	0.6		3.7		-		-		-		-		-		26.2		-		21.9		0.7		-		20.3		11	
33	FH 3771	0.2		-		-		-		-		6.2		-		11.7		-		2.3		4.5		1.3		-		0.3	
34	DH-305	1.4		-		-		29		-		1.3		-		-		-		-		5.2		-		-		-	
35	BAUM-4	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
	CHECKS																												
36	Vivek Hybrid 51(C)	-		4.6		-		-		-		28.9		0.1		-		4.6		-		26.7		-		3.9		-	
37	Vivek Hybrid 45(C)	52.1		-		-		16.7		-		15.3		-		8.8		7.5		-		-		0.1		-		-	
38	PMH5(C)	33.8		-		-		16.9		-		39.7		-		-		-		-		21.3		-		-		-	
39	BIO605(C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
40	DKC 7074(C)	31.9		8.8		-		2.4		6.9		58.2		12.7		14.9		23.4		11.6		22.1		-		4.5		10.6	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO605(C) UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	AH-7007	36.9		-		-		-		13.3		-		-	
2	FH 3763	50		15.7		-		-		13.5		-		-	
3	KH-102	111.6		46		6.3		30.5		141.5		47.2		11.8	
4	IH-0901	49.6		23.7		-		-		27.7		-		-	
5	IH-0702	86.8		45		-		-		110.3		9.7		-	
6	KMH-14-50	48.3		33.7		-		-		70		1.2		-	
7	DMRH 1417	137.5		22.9		-		-		18.7		8.5		-	
8	HKH 351	-		25.3		-		-		87.3		10.3		-	
9	KMH-14-46	67.3		26.7		-		-		59.6		2.4		-	
10	AH-7154	52.4		29.8		1.3		-		114.8		18.5		-	
11	JH 31816	10.3		6.3		-		-		73.4		-		-	
12	JH 31784	88.5		46.8		-		12.9		98		26.4		-	
13	FH 3768	16.9		31.3		-		-		69.7		-		1	
14	BAUMC-5	65.5		33.8		-		-		30.1		4.9		-	
15	JH 31783	-		27.9		5.4		-		69.1		2.8		0.3	
16	KDMH-105	-		19.8		-		-		84.7		4.2		-	
17	MH 21	25.3		24.4		-		-		50.7		-		-	
18	JH 31780	60.7		16.8		-		-		32.7		-		-	
19	HKH 352	73.3		34.2		-		-		75.9		8		-	
20	WH-2093	-		0.9		-		-		-		-		-	
21	AH-7204	13.3		40.4		-		-		67.3		-		-	
22	WH-2096	28.8		13.3		-		-		12.6		-		-	
23	MH 22	-		30.8		-		-		64.7		0.3		-	
24	JH 31794	59.4		19.6		-		-		46.8		-		-	
25	JH 31801	92.1		56		-		-		101.9		20.8		2.4	
26	IH-1204	37.7		15.8		-		-		23.1		-		-	
27	KMH-14-55	1.9		1.8		-		-		-		-		-	
28	DH-304	71.3		19.5		23.4		6.8		-		20.5		5.9	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO605(C) UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
29	AH-7009R	9.3		32.7		-		-		137.6		2.8		-	
30	AH9002	-		62.9		4.4		20.7		108.8		29.1		2.8	
31	IH-0903	118.9		11.5		-		-		35.4		-		-	
32	FH 3765	54.4		52.5		-		5		27		10		1.4	
33	FH 3771	58.1		36.5		-		-		95.3		11		-	
34	DH-305	36.7		24.3		-		-		19.5		-		-	
35	BAUM-4	-		26.2		-		-		2.6		-		-	
	CHECKS														
36	Vivek Hybrid 51(C)	47.1		78.3		11		4.3		132.1		37		1.9	
37	Vivek Hybrid 45(C)	108.1		47.9		15.7		-		111.7		30		1.3	
38	PMH5(C)	57.5		29.2		-		-		139.1		17.6		-	
39	BIO605(C)	-		-		-		-		-		-		-	
40	DKC 7074(C)	47.1		43.7		19.9		25.7		164.5		44.7		13.8	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DKC 7074(C)																		NWPZ ZN 2	
										NHZ(ZN 1)											
		ALMO	R	BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
1	AH-7007	-		-		-		61.1		-		-		-		-		35.1		-		-	
2	FH 3763	7.9		-		-		-		-		-		-		8.7		-		-		-	
3	KH-102	-		-		-		19.8		-		-		-		28.2		1.1		-		-	
4	IH-0901	-		-		-		-		-		-		-		3.6		6.6		-		-	
5	IH-0702	-		-		-		5.3		-		-		-		-		37		-		-	
6	KMH-14-50	-		-		-		-		-		-		-		-		-		-		-	
7	DMRH 1417	12.6		-		-		-		-		-		-		38.7		18.3		-		-	
8	HKH 351	-		-		-		51.8		-		-		-		20.2		20		-		-	
9	KMH-14-46	-		-		-		86.6		-		-		-		18.2		-		-		-	
10	AH-7154	-		-		-		-		-		-		-		-		10.9		-		-	
11	JH 31816	0.4		-		-		2.8		-		-		-		-		-		-		-	
12	JH 31784	-		-		-		27.5		-		-		-		30.6		-		-		-	
13	FH 3768	-		-		-		27.2		-		-		-		24.7		69.3		-		5.2	
14	BAUMC-5	-		-		-		4.2		-		-		-		-		71.6		-		-	
15	JH 31783	-		-		-		13.5		-		-		-		14.4		11.7		-		-	
16	KDMH-105	-		-		-		0.6		-		-		-		-		14.4		-		-	
17	MH 21	-		-		-		-		-		-		-		-		30.6		-		-	
18	JH 31780	-		-		-		-		-		-		-		-		12.4		-		-	
19	HKH 352	-		-		-		-		-		-		-		13.9		12.5		-		-	
20	WH-2093	-		-		-		8.3		-		-		-		-		18.1		-		-	
21	AH-7204	-		-		-		-		8		-		-		-		-		-		-	
22	WH-2096	-		-		-		13.9		-		-		-		6.3		-		-		-	
23	MH 22	-		-		-		10.9		-		-		-		9		5.2		-		-	
24	JH 31794	-		-		-		-		-		-		-		-		24.4		-		-	
25	JH 31801	-		-		-		11.1		19.5		-		-		19.4		32.4		-		-	
26	IH-1204	-		-		-		-		-		-		-		9.5		-		-		-	
27	KMH-14-55	-		-		-		70		-		-		-		12.7		28.3		-		-	
28	DH-304	-		-		-		31.4		-		-		-		24.3		11.7		15.7		4.8	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DKC 7074(C)																		NWPZ ZN 2	
										NHZ(ZN 1)											
		ALMO	R	BAJA	R	UDHA	R	KANG	R	GOSS	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R
29	AH-7009R	-		-		-		-		-		-		-		-		14.4		-		-	
30	AH9002	-		-		-		23.1		-		-		-		22.5		30.6		-		-	
31	IH-0903	-		-		-		4.2		-		-		-		18.5		12.4		-		-	
32	FH 3765	0.4		-		-		12.1		-		-		-		14.9		16.8		6.8		1.8	
33	FH 3771	-		-		-		6.1		8.9		-		-		10.8		5.7		-		-	
34	DH-305	-		-		-		11.8		-		-		-		-		30.8		-		-	
35	BAUM-4	-		-		-		-		-		-		-		4.9		-		-		-	
	CHECKS																						
36	Vivek Hybrid 51(C)	-		-		-		32.6		-		-		-		16.7		-		-		-	
37	Vivek Hybrid 45(C)	-		-		14.8		34.2		-		-		-		2.5		32.4		-		-	
38	PMH5(C)	-		-		3.4		28		-		-		-		0.1		10.7		-		-	
39	BIO605(C)	-		-		-		16.7		-		-		-		33.8		31.8		-		0.3	
40	DKC 7074(C)	-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 5 (Contd.)

		GRAIN YIELD % SUPERIORITY OVER THE DKC 7074(C)												NEPZ														PZ	
Sl														ZN 3														ZN 4	
No	PEDIGREE	DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	MEAN	R
1	AH-7007	-		-		-		28		-		-		-		-		-		-		9.6		-		-		-	
2	FH 3763	-		-		-		-		-		-		-		-		-		-		-		-		4.9		-	
3	KH-102	40.8		10.7		-		-		-		-		-		8.7		9.2		-		31.1		22.5		21.1		11	
4	IH-0901	-		-		-		10.2		-		-		-		-		-		-		-		-		-		-	
5	IH-0702	-		-		-		6.5		-		-		-		-		-		-		-		-		-		-	
6	KMH-14-50	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
7	DMRH 1417	-		16.2		-		-		-		-		-		-		-		-		-		-		-		-	
8	HKH 351	-		-		-		22.8		-		-		-		-		0.7		-		1		-		-		-	
9	KMH-14-46	-		-		-		13.3		-		-		-		-		2.2		-		-		-		-		-	
10	AH-7154	-		-		-		-		-		-		-		-		-		-		-		-		0.4		-	
11	JH 31816	-		10.8		6.8		14		11.5		-		5.9		-		-		-		-		3.2		-		-	
12	JH 31784	-		1.6		18.4		31.1		-		-		4		-		-		-		-		-		-		-	
13	FH 3768	-		-		-		21		-		-		-		2.6		-		-		20.2		-		20.7		0.7	
14	BAUMC-5	-		-		2.2		-		-		-		-		-		-		-		-		-		-		-	
15	JH 31783	-		-		-		3.5		33.5		-		2.1		-		-		-		9.8		-		21.7		-	
16	KDMH-105	-		-		-		-		-		-		-		-		-		-		-		-		5.7		-	
17	MH 21	-		-		-		19.3		-		-		-		-		-		-		-		-		-		-	
18	JH 31780	-		-		-		5.4		-		-		-		-		-		-		-		1.8		-		-	
19	HKH 352	-		-		-		2.4		-		-		-		-		-		-		-		-		-		-	
20	WH-2093	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
21	AH-7204	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
22	WH-2096	-		-		-		13.4		-		-		-		-		-		-		-		-		-		-	
23	MH 22	-		-		-		10.4		0.9		-		-		-		-		-		-		8.2		-		-	
24	JH 31794	-		-		-		-		-		-		-		-		-		-		-		-		7.2		-	
25	JH 31801	-		-		10.8		7.6		-		-		-		-		0.9		-		12.3		-		-		-	
26	IH-1204	-		-		-		5.2		-		-		-		-		-		-		-		-		-		-	
27	KMH-14-55	-		7.5		-		26.1		-		-		-		-		-		-		-		-		-		-	
28	DH-304	-		7.1		-		4.9		-		-		-		-		18.7		-		18.5		-		17.7		-	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DKC 7074(C)										NEPZ ZN 3												PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	MEAN	R
29	AH-7009R	-		-		-		8.8		-		-		-		-		-		-		1.5		-		1.7		-	
30	AH9002	-		-		-		-		6.1		-		-		-		13.7		-		-		6.9		9.6		-	
31	IH-0903	-		-		-		5.4		-		-		-		-		-		-		-		-		-		-	
32	FH 3765	-		-		-		-		-		-		-		9.9		-		9.2		-		-		15.1		0.3	
33	FH 3771	-		-		-		-		-		-		-		-		-		-		-		3.4		-		-	
34	DH-305	-		-		-		25.9		-		-		-		-		-		-		-		-		-		-	
35	BAUM-4	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
	CHECKS																												
36	Vivek Hybrid 51(C)	-		-		-		-		-		-		-		-		-		-		3.8		1.9		-		-	
37	Vivek Hybrid 45(C)	15.3		-		-		14		-		-		-		-		-		-		-		2.2		-		-	
38	PMH5(C)	1.4		-		-		14.1		-		-		-		-		-		-		-		-		-		-	
39	BIO605(C)	-		-		13.1		-		-		-		-		-		-		-		-		2.1		-		-	
40	DKC 7074(C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DKC 7074(C)													
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	(CWZ) ZN 5 MEAN	R	OV'L MEAN	R
1	AH-7007	-		-		-		-		-		-		-	
2	FH 3763	1.9		-		-		-		-		-		-	
3	KH-102	43.8		1.6		-		3.8		-		1.7		-	
4	IH-0901	1.6		-		-		-		-		-		-	
5	IH-0702	26.9		0.9		-		-		-		-		-	
6	KMH-14-50	0.8		-		-		-		-		-		-	
7	DMRH 1417	61.4		-		-		-		-		-		-	
8	HKH 351	-		-		-		-		-		-		-	
9	KMH-14-46	13.7		-		-		-		-		-		-	
10	AH-7154	3.6		-		-		-		-		-		-	
11	JH 31816	-		-		-		-		-		-		-	
12	JH 31784	28.1		2.2		-		-		-		-		-	
13	FH 3768	-		-		-		-		-		-		-	
14	BAUMC-5	12.5		-		-		-		-		-		-	
15	JH 31783	-		-		-		-		-		-		-	
16	KDMH-105	-		-		-		-		-		-		-	
17	MH 21	-		-		-		-		-		-		-	
18	JH 31780	9.2		-		-		-		-		-		-	
19	HKH 352	17.8		-		-		-		-		-		-	
20	WH-2093	-		-		-		-		-		-		-	
21	AH-7204	-		-		-		-		-		-		-	
22	WH-2096	-		-		-		-		-		-		-	
23	MH 22	-		-		-		-		-		-		-	
24	JH 31794	8.3		-		-		-		-		-		-	
25	JH 31801	30.6		8.6		-		-		-		-		-	
26	IH-1204	-		-		-		-		-		-		-	
27	KMH-14-55	-		-		-		-		-		-		-	
28	DH-304	16.4		-		2.9		-		-		-		-	

TABLE No. 5 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DKC 7074(C)													
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	(CWZ) ZN 5 MEAN	R	OV'L MEAN	R
29	AH-7009R	-		-		-		-		-		-		-	
30	AH9002	-		13.4		-		-		-		-		-	
31	IH-0903	48.8		-		-		-		-		-		-	
32	FH 3765	5		6.1		-		-		-		-		-	
33	FH 3771	7.4		-		-		-		-		-		-	
34	DH-305	-		-		-		-		-		-		-	
35	BAUM-4	-		-		-		-		-		-		-	
	CHECKS														
36	Vivek Hybrid 51(C)	-		24.1		-		-		-		-		-	
37	Vivek Hybrid 45(C)	41.5		2.9		-		-		-		-		-	
38	PMH5(C)	7		-		-		-		-		-		-	
39	BIO605(C)	-		-		-		-		-		-		-	
40	DKC 7074(C)	-		-		-		-		-		-		-	

TABLE No. 5 (Contd.)

		MOISTURE % AT HARVEST					NHZ					NWPZ						NEPZ
							ZN 1					ZN 2						ZN 3
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	AH-7007	20.1	19.6	24.9	29.5	15.8	23.5	13.3	20.0	14.0	20.3	16.9	20.3	18.3	27.0	26.6	22.8	24.2	23.2
2	FH 3763	22.1	20.4	24.9	31.0	9.9	24.6	13.6	20.5	14.7	19.0	16.9	19.1	18.6	27.0	31.8	23.0	26.8	24.4
3	KH-102	22.8	19.7	24.6	29.8	13.2	24.2	16.3	19.7	15.0	19.8	17.7	21.8	18.8	27.6	35.2	22.8	26.9	25.5
4	IH-0901	21.5	20.2	24.4	29.0	9.7	23.8	13.4	22.0	14.0	21.0	17.6	19.0	17.8	26.9	28.5	22.1	23.6	23.0
5	IH-0702	23.3	19.0	25.0	31.3	14.1	24.6	12.0	19.6	15.0	25.9	18.1	18.3	19.1	26.6	28.5	22.9	23.8	23.2
6	KMH-14-50	22.5	19.8	24.1	29.9	9.0	24.1	13.1	20.2	14.0	21.6	17.2	18.2	17.3	27.0	31.4	20.9	23.7	23.1
7	DMRH 1417	24.9	20.2	24.9	32.3	13.3	25.6	16.7	18.8	14.0	23.7	18.3	21.8	19.2	27.8	36.3	22.8	26.2	25.7
8	HKH 351	24.7	19.7	24.9	28.7	10.4	24.5	13.9	20.6	12.0	26.4	18.2	19.9	17.3	27.2	30.3	24.0	25.4	24.0
9	KMH-14-46	22.5	20.6	24.5	29.3	16.5	24.2	13.4	21.6	14.3	20.4	17.4	18.4	17.6	26.8	26.6	23.1	26.0	23.1
10	AH-7154	27.2	19.9	24.5	34.7	13.5	26.6	14.5	19.9	15.0	20.7	17.5	19.8	18.1	27.0	33.4	21.3	26.3	24.3
11	JH 31816	28.2	20.2	24.6	33.6	9.4	26.6	13.6	19.4	13.7	19.3	16.5	19.0	17.9	27.4	30.1	24.9	24.0	23.9
12	JH 31784	23.3	20.0	23.8	34.1	13.2	25.3	14.1	20.6	13.0	24.2	18.0	20.1	18.3	27.5	29.1	23.8	24.7	23.9
13	FH 3768	26.3	19.2	24.5	30.7	10.4	25.2	13.3	19.0	15.0	26.0	18.3	20.8	19.2	27.0	27.1	20.7	29.8	24.1
14	BAUMC-5	23.3	20.2	24.3	30.5	17.7	24.5	13.7	20.8	14.3	25.8	18.7	20.2	19.4	27.0	37.1	22.0	27.5	25.5
15	JH 31783	25.6	20.0	24.4	33.8	10.2	25.9	13.0	19.4	14.7	21.3	17.1	19.9	17.8	27.2	30.8	23.1	24.9	23.9
16	KDMH-105	26.8	19.6	24.2	37.1	15.3	26.9	13.1	21.0	14.3	25.1	18.4	19.9	17.2	26.9	30.8	21.8	24.7	23.5
17	MH 21	23.9	19.5	24.8	29.2	17.1	24.3	13.5	23.5	14.3	24.5	18.9	18.9	17.7	26.7	28.7	24.0	22.8	23.1
18	JH 31780	23.5	19.2	24.6	31.0	15.2	24.5	14.0	27.6	15.0	19.9	19.1	21.2	17.6	27.0	32.1	23.5	26.9	24.7
19	HKH 352	24.0	20.2	25.0	33.4	14.5	25.6	13.0	20.6	14.3	19.7	16.9	18.3	17.3	26.5	30.5	22.8	25.6	23.5
20	WH-2093	20.7	18.2	24.6	31.9	12.6	23.8	13.3	20.4	13.7	22.6	17.5	17.6	18.6	26.5	32.6	25.6	24.1	24.1
21	AH-7204	22.3	17.3	25.0	30.4	13.9	23.7	14.2	22.3	14.3	20.6	17.9	18.0	15.7	26.2	32.2	21.9	23.1	22.8
22	WH-2096	24.3	19.5	25.0	27.3	9.4	24.0	11.3	19.7	15.0	17.9	16.0	19.4	18.9	26.1	32.1	21.5	22.3	23.4
23	MH 22	27.2	19.6	24.2	33.8	13.8	26.2	10.6	19.7	15.0	22.5	16.9	19.3	18.5	27.5	33.1	22.0	25.4	24.3
24	JH 31794	23.3	19.1	24.0	36.8	9.5	25.8	13.5	21.5	14.0	25.8	18.7	16.2	18.4	26.9	36.0	23.0	22.0	23.7
25	JH 31801	24.5	19.6	25.1	32.1	17.5	25.3	14.1	21.9	14.0	19.1	17.3	19.2	17.5	27.4	30.3	21.6	26.5	23.7
26	IH-1204	24.1	17.7	24.6	31.3	15.3	24.4	12.5	20.2	12.0	20.6	16.3	17.9	18.0	26.9	28.4	21.1	22.6	22.5
27	KMH-14-55	22.5	20.1	25.0	33.1	15.8	25.1	12.3	21.5	14.3	21.1	17.3	21.1	17.6	26.3	29.7	23.0	26.9	24.1
28	DH-304	23.5	19.3	24.1	33.8	13.5	25.1	17.9	20.4	14.7	19.5	18.1	21.5	18.3	26.4	30.8	23.0	28.7	24.8

TABLE No. 5 (Contd.)

S.No.	PEDIGREE	MOISTURE % AT HARVEST ALMO	BAJA	UDHA	KANG	GOSS	NHZ ZN 1 Mean	LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	NEPZ ZN 3 Mean
29	AH-7009R	24.0	19.9	24.6	28.5	9.2	24.2	13.5	21.1	14.3	19.4	17.1	20.0	18.8	26.5	29.0	23.8	25.6	23.9
30	AH9002	24.1	19.2	25.0	34.9	13.2	25.8	15.6	22.3	14.3	20.1	18.1	19.6	18.9	27.0	33.9	25.2	25.1	24.9
31	IH-0903	25.8	20.4	24.5	30.4	17.1	25.3	14.0	19.2	15.0	20.5	17.1	18.4	19.2	26.5	30.5	23.8	25.6	24.0
32	FH 3765	24.2	18.2	24.9	30.5	13.2	24.4	16.8	28.1	15.0	23.7	20.9	21.4	18.2	26.9	-	23.8	31.7	24.4
33	FH 3771	22.4	20.0	25.1	34.9	13.1	25.6	13.2	20.2	15.0	20.3	17.2	19.7	18.0	27.0	-	24.0	23.4	22.4
34	DH-305	23.4	19.0	24.8	33.8	12.9	25.2	13.6	20.1	14.3	25.1	18.3	20.2	17.5	26.5	28.8	22.9	28.3	24.0
35	BAUM-4	20.3	17.7	24.5	27.3	15.1	22.4	12.7	19.7	14.0	20.1	16.6	20.8	17.8	26.2	28.4	21.5	22.7	22.9
	CHECKS																		
36	Vivek Hybrid 51(C)	25.8	20.5	24.1	32.0	13.1	25.6	16.2	20.1	12.7	20.6	17.4	20.0	17.6	27.5	32.3	21.4	26.8	24.3
37	Vivek Hybrid 45(C)	27.6	20.3	24.9	32.7	13.7	26.3	13.2	20.5	13.3	20.3	16.8	19.8	17.4	26.9	28.9	21.8	26.7	23.6
38	PMH5(C)	22.0	19.1	24.5	33.0	13.9	24.6	13.4	23.2	14.0	22.4	18.2	19.1	18.6	26.4	29.3	23.7	25.7	23.8
39	BIO605(C)	25.5	20.1	24.1	35.8	11.7	26.4	14.2	20.2	14.0	22.4	17.7	19.4	17.9	26.9	34.4	20.6	28.0	24.5
40	DKC 7074(C)	23.4	19.5	24.9	37.5	13.2	26.3	16.1	23.4	13.7	25.4	19.7	15.5	18.9	27.0	32.0	21.6	26.4	23.5
	Loc. Mean	**23.9**	**19.5**	**24.6**	**32.0**	**13.2**	**25.0**	**13.8**	**21.0**	**14.2**	**21.8**	**17.7**	**19.5**	**18.1**	**26.9**	**31.0**	**22.7**	**25.5**	**23.9**
	C.D. (5%)	2.29	0.43	0.57	2.17	4.40	2.19	1.05	0.35	0.78	1.29	2.41	2.19	0.00	0.63	2.08	1.08	3.86	1.93
	C.V. (%)	5.89	1.35	1.44	4.17	20.52	6.24	4.68	1.03	3.36	3.64	9.70	6.94	0.00	1.43	4.03	2.92	9.31	7.09
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.16

Locations Rejected due to High C.V.: GOSSAIGAON 20.5%

TABLE No. 5 (Contd.)

		MOISTURE % AT HARVEST						PZ						CWZ	
								ZN 4						ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	AH-7007	18.3	19.0	21.8	16.3	17.2	15.3	18.0	15.5	15.8	12.7	15.5	14.5	14.8	19.3
2	FH 3763	20.8	17.8	25.7	16.0	17.0	19.8	19.5	12.4	16.2	14.1	14.9	15.0	14.5	20.1
3	KH-102	22.1	20.8	19.9	17.0	16.6	20.6	19.5	16.4	16.3	16.0	17.5	15.2	16.2	20.8
4	IH-0901	17.1	19.1	19.8	17.1	17.4	20.2	18.4	12.4	15.8	12.2	17.4	15.0	14.6	19.5
5	IH-0702	19.5	17.6	17.8	16.6	17.1	21.2	18.3	19.1	16.5	13.2	16.2	15.0	16.0	20.0
6	KMH-14-50	18.0	18.5	19.8	16.5	17.6	21.4	18.6	19.9	15.7	11.5	18.5	15.4	16.2	19.8
7	DMRH 1417	13.1	19.8	13.2	15.1	16.7	19.2	16.2	16.2	16.1	12.9	17.2	15.0	15.4	20.1
8	HKH 351	18.9	18.3	21.6	16.8	17.2	21.1	19.0	16.8	15.9	13.7	16.6	14.0	15.4	20.2
9	KMH-14-46	18.0	18.1	20.6	16.4	16.9	21.3	18.5	15.3	15.2	12.5	18.8	13.5	15.0	19.7
10	AH-7154	20.1	22.7	22.7	16.6	16.6	20.2	19.8	18.5	16.1	15.5	16.3	13.8	16.0	20.8
11	JH 31816	21.3	19.3	24.9	17.6	15.8	21.3	20.0	18.6	18.0	12.6	15.7	13.5	15.7	20.6
12	JH 31784	20.6	19.1	18.7	17.2	16.2	20.0	18.6	16.9	15.9	12.6	17.9	15.2	15.7	20.3
13	FH 3768	19.5	17.6	20.8	15.6	17.4	20.9	18.6	14.0	15.4	11.0	15.1	13.8	13.8	20.0
14	BAUMC-5	19.9	18.0	27.1	15.5	17.3	20.1	19.6	15.1	16.3	13.7	19.9	15.0	16.0	20.9
15	JH 31783	21.6	19.7	23.4	15.3	16.9	21.6	19.7	19.5	16.8	12.7	19.6	15.0	16.7	20.7
16	KDMH-105	18.2	19.9	19.6	14.6	15.8	18.1	17.7	16.0	16.3	12.9	15.4	15.2	15.1	20.2
17	MH 21	19.0	19.1	23.8	14.7	15.8	21.8	19.0	13.6	16.0	12.7	16.5	14.2	14.6	19.9
18	JH 31780	20.1	19.5	19.4	15.5	17.5	21.1	18.8	15.8	16.4	14.5	15.6	15.4	15.5	20.5
19	HKH 352	21.0	18.0	21.1	15.3	16.4	19.3	18.5	15.2	16.1	12.5	17.0	14.7	15.1	19.9
20	WH-2093	19.3	18.8	23.7	14.8	17.0	22.8	19.4	15.1	15.8	11.5	15.3	14.9	14.5	20.0
21	AH-7204	14.5	16.4	17.5	15.4	16.3	19.2	16.5	15.2	17.9	12.1	17.4	14.7	15.5	19.2
22	WH-2096	20.2	17.6	22.0	15.3	16.4	18.0	18.2	16.4	15.4	12.4	18.0	15.9	15.6	19.5
23	MH 22	20.2	19.8	24.8	15.4	16.4	19.7	19.4	15.6	16.4	11.6	18.2	15.8	15.5	20.5
24	JH 31794	19.4	20.6	22.4	17.7	16.4	22.4	19.8	14.9	15.7	13.6	15.6	14.0	14.8	20.5
25	JH 31801	21.8	19.3	20.6	16.2	18.2	21.9	19.6	19.3	16.4	13.5	18.7	15.4	16.6	20.6
26	IH-1204	18.7	20.2	19.2	16.1	17.0	18.9	18.3	19.0	16.4	12.3	19.1	14.2	16.2	19.5
27	KMH-14-55	19.1	15.7	20.6	17.9	17.1	20.7	18.5	15.4	15.6	12.3	17.1	13.9	14.8	20.0
28	DH-304	20.0	20.1	23.9	15.4	15.8	20.3	19.2	14.6	15.7	13.2	17.3	15.2	15.2	20.5

TABLE No. 5 (Contd.)

S.No.	PEDIGREE	MOISTURE % AT HARVEST HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ ZN 5 Mean	OV'L Mean
29	AH-7009R	21.7	19.2	22.3	15.5	17.7	20.8	19.5	19.6	15.7	13.9	19.7	15.2	16.8	20.4
30	AH9002	16.3	18.1	15.7	15.3	16.8	20.3	17.1	14.9	16.1	12.5	17.3	15.0	15.2	20.1
31	IH-0903	19.5	18.0	24.7	15.9	16.9	17.8	18.8	17.6	16.3	13.0	19.3	15.2	16.3	20.3
32	FH 3765	22.5	19.4	21.2	16.8	17.5	24.1	20.2	16.4	16.0	13.5	15.5	15.0	15.3	20.9
33	FH 3771	20.1	18.8	24.4	15.5	16.6	22.3	19.6	19.5	15.7	12.4	15.4	13.5	15.3	19.9
34	DH-305	20.3	19.8	22.8	18.0	16.0	20.4	19.5	16.9	17.8	13.2	15.9	14.5	15.7	20.6
35	BAUM-4	15.0	18.7	19.4	15.8	17.0	12.9	16.4	14.7	16.1	11.7	18.0	15.5	15.2	18.7
	CHECKS														
36	Vivek Hybrid 51(C)	19.5	18.1	23.7	15.4	17.0	18.4	18.7	16.4	16.3	13.3	15.3	15.9	15.4	20.3
37	Vivek Hybrid 45(C)	20.6	17.6	24.1	17.9	16.9	20.0	19.5	18.6	16.3	12.6	17.1	14.8	15.9	20.4
38	PMH5(C)	20.1	17.6	15.4	16.9	16.8	21.6	18.0	14.7	15.4	12.3	17.5	15.2	15.0	19.9
39	BIO605(C)	22.7	17.9	23.3	17.7	16.5	23.3	20.2	19.1	15.5	13.0	16.2	15.2	15.8	20.9
40	DKC 7074(C)	19.5	18.9	26.2	15.9	17.9	23.3	20.3	17.2	15.8	14.2	19.3	15.8	16.4	21.1
	Loc. Mean	**19.5**	**18.8**	**21.5**	**16.1**	**16.8**	**20.3**	**18.8**	**16.4**	**16.1**	**12.9**	**17.1**	**14.8**	**15.5**	**20.2**
	C.D. (5%)	1.76	1.51	3.75	0.65	0.91	0.69	1.92	0.44	1.00	1.25	0.33	0.00	1.50	0.92
	C.V. (%)	5.55	4.94	10.75	2.49	3.33	2.10	8.96	1.67	3.82	5.94	1.20	0.00	7.76	8.22
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00

TABLE No. 5 (Contd.)

		GRAIN SHELLING %					NHZ					NWPZ						NEPZ
							ZN 1					ZN 2						ZN 3
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	AH-7007	80.4	73.2	81.8	78.4	79.2	78.6	77.7	79.0	75.0	79.6	77.8	79.0	78.6	84.2	78.0	72.3	77.7	78.3
2	FH 3763	82.2	82.7	83.5	80.5	75.7	80.9	78.9	77.7	74.3	81.0	78.0	78.5	81.0	84.7	69.5	72.2	79.4	77.5
3	KH-102	85.4	81.8	84.6	82.5	75.3	81.9	84.0	79.6	78.0	85.1	81.7	83.5	81.0	85.7	72.0	73.0	79.0	79.0
4	IH-0901	84.9	83.9	85.3	82.5	76.3	82.6	82.8	76.7	73.0	83.5	79.0	81.0	79.7	84.0	77.0	73.6	82.6	79.6
5	IH-0702	83.6	78.2	84.5	81.4	80.7	81.7	78.1	79.0	73.7	79.6	77.6	79.5	78.6	85.4	72.0	72.9	81.5	78.3
6	KMH-14-50	83.6	80.3	83.2	82.3	68.5	79.6	81.1	76.3	74.3	84.2	79.0	77.5	80.4	79.2	72.5	71.3	80.5	76.9
7	DMRH 1417	84.5	83.8	85.8	80.3	75.7	82.0	82.3	79.7	74.7	84.0	80.2	74.0	80.5	83.4	73.0	75.3	81.6	78.0
8	HKH 351	83.2	83.0	82.3	81.3	73.0	80.6	80.9	78.1	73.0	76.8	77.2	79.5	78.2	85.1	71.5	80.3	76.4	78.5
9	KMH-14-46	84.4	84.0	84.4	85.0	84.1	84.4	81.9	75.0	74.7	82.9	78.6	81.0	78.0	85.2	71.5	74.8	77.9	78.1
10	AH-7154	84.1	82.2	81.8	80.2	75.6	80.8	83.5	78.9	74.0	85.3	80.4	82.0	78.6	84.4	74.5	73.4	82.7	79.3
11	JH 31816	84.6	85.9	83.0	80.5	68.3	80.5	85.1	76.3	76.0	85.1	80.6	78.0	79.5	84.3	72.5	80.2	80.7	79.2
12	JH 31784	84.0	86.3	81.2	78.9	76.1	81.3	83.4	79.1	73.7	86.0	80.5	80.5	80.9	85.6	73.0	81.0	81.3	80.4
13	FH 3768	84.2	82.0	84.3	83.3	70.0	80.7	81.5	79.6	73.3	85.2	79.9	80.0	77.3	83.9	72.0	68.9	78.5	76.8
14	BAUMC-5	80.9	78.8	80.7	78.1	82.5	80.2	81.9	78.7	72.3	84.5	79.4	79.5	78.8	83.4	69.5	75.7	78.9	77.6
15	JH 31783	84.1	83.8	82.4	82.6	69.7	80.5	85.4	76.1	73.7	86.5	80.4	77.0	80.5	85.0	73.5	77.9	80.5	79.1
16	KDMH-105	83.3	82.3	84.3	76.7	79.5	81.2	81.8	74.9	74.7	84.5	79.0	80.5	79.3	83.9	71.0	73.5	80.1	78.0
17	MH 21	82.9	79.4	82.6	78.1	76.3	79.9	79.2	77.6	74.7	79.9	77.8	81.0	79.5	81.8	66.5	75.5	79.1	77.2
18	JH 31780	86.4	86.9	84.9	82.1	78.5	83.8	81.7	79.5	75.0	80.9	79.3	78.5	79.0	84.1	72.5	74.6	85.1	79.0
19	HKH 352	84.1	84.3	84.0	79.5	80.1	82.4	83.6	79.1	75.0	80.8	79.6	78.0	80.1	81.7	73.0	75.3	80.8	78.1
20	WH-2093	87.6	84.1	83.8	85.2	70.9	82.3	82.5	73.8	77.0	73.9	76.8	79.5	77.6	86.1	72.0	75.3	83.0	78.9
21	AH-7204	80.3	80.1	81.5	77.3	77.5	79.3	78.9	77.9	75.3	84.0	79.0	80.0	78.3	82.3	72.0	68.5	79.0	76.7
22	WH-2096	88.0	82.7	84.4	84.2	66.4	81.1	79.8	78.5	75.3	86.3	80.0	80.0	80.1	83.9	75.5	72.9	83.3	79.3
23	MH 22	86.3	79.7	84.0	82.8	68.9	80.3	83.1	80.0	74.7	86.6	81.1	79.0	77.1	85.2	77.0	76.8	77.3	78.7
24	JH 31794	85.9	82.7	85.1	79.6	73.3	81.3	80.4	79.8	73.3	77.0	77.6	80.0	78.3	85.2	71.5	71.2	78.8	77.5
25	JH 31801	84.4	80.5	83.0	80.0	84.5	82.5	82.1	78.3	73.0	83.0	79.1	80.0	81.1	85.1	71.5	73.6	81.8	78.8
26	IH-1204	84.6	79.0	84.8	80.6	73.3	80.4	79.6	79.3	74.3	86.4	79.9	81.5	78.5	87.2	75.5	72.2	83.4	79.7
27	KMH-14-55	88.1	84.0	84.5	85.7	75.7	83.6	84.9	79.1	76.3	83.3	80.9	78.0	81.0	83.3	79.0	76.0	83.4	80.1
28	DH-304	84.2	82.8	79.5	80.2	76.4	80.6	83.1	79.5	73.7	81.3	79.4	79.5	80.7	83.4	73.0	71.6	78.8	77.8

TABLE No. 5 (Contd.)

		GRAIN SHELLING %					NHZ					NWPZ						NEPZ
							ZN 1					ZN 2						ZN 3
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
29	AH-7009R	86.5	84.9	84.2	81.6	74.2	82.3	82.8	79.7	74.7	85.7	80.7	78.5	76.9	83.8	78.0	79.8	82.4	79.9
30	AH9002	84.8	78.0	84.6	79.9	72.8	80.0	85.5	76.5	74.7	79.6	79.1	80.0	78.0	84.8	70.5	78.0	78.3	78.3
31	IH-0903	86.3	84.4	83.5	82.5	71.5	81.6	80.6	77.0	75.0	84.5	79.3	79.5	80.3	84.0	81.0	73.2	81.5	79.9
32	FH 3765	85.4	83.9	84.9	81.0	68.3	80.7	81.9	79.2	75.7	84.6	80.3	79.0	80.4	83.6	-	70.1	75.8	77.8
33	FH 3771	82.9	81.1	80.5	79.5	73.3	79.5	79.0	78.3	72.7	81.1	77.8	78.5	78.1	83.1	-	77.0	80.2	79.4
34	DH-305	85.8	84.5	83.0	81.9	72.1	81.4	82.6	79.0	74.3	84.7	80.2	78.5	80.0	84.4	74.5	75.4	81.1	79.0
35	BAUM-4	83.3	80.1	84.2	82.3	75.3	81.0	79.7	74.3	73.7	80.9	77.2	75.5	77.8	85.9	72.0	73.6	78.3	77.2
	CHECKS																		
36	Vivek Hybrid 51(C)	82.8	83.8	82.7	81.6	73.0	80.8	84.7	79.4	73.7	82.9	80.2	79.5	78.2	84.0	72.0	72.2	81.8	77.9
37	Vivek Hybrid 45(C)	84.0	82.6	84.8	81.6	76.1	81.8	84.7	78.1	74.3	84.9	80.5	81.0	79.3	83.5	73.0	69.4	81.9	78.0
38	PMH5(C)	85.2	82.1	84.9	82.4	73.3	81.6	80.7	79.9	74.7	82.8	79.5	79.5	81.6	81.6	76.0	74.3	80.4	78.9
39	BIO605(C)	84.5	84.7	81.3	81.0	68.8	80.1	82.8	79.2	73.7	86.7	80.6	79.5	79.7	85.1	76.0	76.5	80.4	79.5
40	DKC 7074(C)	84.1	81.9	84.0	77.0	71.4	79.7	81.3	76.0	74.7	85.4	79.3	81.0	78.0	84.1	73.0	74.9	78.8	78.3
	Loc. Mean	**84.4**	**82.3**	**83.4**	**81.0**	**74.6**	**81.1**	**81.9**	**78.1**	**74.4**	**83.0**	**79.4**	**79.4**	**79.3**	**84.1**	**73.4**	**74.3**	**80.3**	**78.5**
	C.D. (5%)	1.32	-	1.57	1.79	7.05	3.34	2.58	0.30	1.51	1.63	2.73	2.73	0.00	1.08	2.53	1.34	3.79	2.49
	C.V. (%)	0.96	-	1.16	1.36	5.82	3.30	1.94	0.24	1.24	1.21	2.46	2.12	0.00	0.79	2.07	1.11	2.90	2.78
	F (Prob)	0.00	-	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.28

TABLE No. 5 (Contd.)

		GRAIN SHELLING %						PZ						CWZ	
								ZN 4						ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	AH-7007	74.4	77.8	82.2	77.5	80.0	76.0	78.0	80.1	72.6	78.6	77.1	74.1	76.5	77.9
2	FH 3763	78.8	77.8	83.4	76.3	79.6	76.9	78.8	80.5	74.5	81.8	76.1	83.7	79.3	78.9
3	KH-102	79.5	80.1	85.8	80.6	76.5	79.7	80.4	80.2	72.6	83.9	79.0	87.9	80.7	80.6
4	IH-0901	84.1	81.9	86.0	79.9	78.1	79.8	81.6	79.1	74.2	79.7	79.1	86.3	79.7	80.6
5	IH-0702	80.7	83.4	84.5	78.1	77.1	76.3	80.0	79.8	74.0	87.6	77.3	83.9	80.5	79.7
6	KMH-14-50	80.2	80.1	83.7	77.6	76.1	77.9	79.3	81.1	72.7	84.2	79.6	84.8	80.5	79.0
7	DMRH 1417	84.2	80.0	83.9	78.4	81.9	84.5	82.1	80.1	73.3	84.1	78.6	87.5	80.7	80.6
8	HKH 351	80.7	80.3	59.3	78.6	77.5	77.2	75.6	79.5	73.0	87.0	79.7	85.0	80.8	78.5
9	KMH-14-46	87.1	85.6	86.6	80.1	80.2	83.5	83.9	80.2	75.6	84.6	78.9	86.7	81.2	81.3
10	AH-7154	80.6	81.2	85.8	78.0	78.9	77.6	80.3	80.4	73.6	83.1	77.9	85.9	80.2	80.2
11	JH 31816	81.9	79.7	85.8	78.1	81.5	82.1	81.5	79.7	71.9	85.5	78.5	84.6	80.0	80.3
12	JH 31784	77.6	78.4	84.3	78.1	77.0	75.1	78.4	81.0	77.3	88.6	78.6	84.7	82.0	80.4
13	FH 3768	81.6	82.4	86.0	77.9	79.5	76.6	80.7	79.3	72.8	81.5	77.1	83.1	78.7	79.3
14	BAUMC-5	75.6	78.6	84.0	79.1	77.8	77.2	78.7	79.6	75.3	81.8	79.3	83.3	79.9	79.1
15	JH 31783	79.8	79.9	84.9	80.6	77.7	82.2	80.8	80.7	73.7	85.9	79.5	85.7	81.1	80.4
16	KDMH-105	79.5	79.0	83.3	78.2	78.2	77.8	79.3	78.7	75.0	88.2	77.1	85.0	80.8	79.6
17	MH 21	76.3	80.7	84.2	82.1	76.5	74.3	79.0	78.9	73.5	78.5	77.6	84.5	78.6	78.5
18	JH 31780	83.7	85.1	87.5	79.1	80.6	82.9	83.1	78.4	76.6	83.9	77.7	87.7	80.8	81.3
19	HKH 352	79.9	80.1	86.7	78.7	77.8	78.6	80.3	81.4	74.6	84.0	79.4	85.3	81.0	80.2
20	WH-2093	85.0	85.3	88.0	80.1	80.1	80.8	83.2	79.4	74.1	80.6	77.5	63.8	75.1	79.5
21	AH-7204	78.7	79.7	82.4	78.6	77.5	80.3	79.5	78.6	74.2	83.6	79.0	84.5	80.0	78.8
22	WH-2096	82.7	84.1	87.1	78.9	77.9	83.3	82.3	81.1	72.5	83.0	78.4	83.9	79.8	80.5
23	MH 22	79.7	77.1	87.4	79.4	81.0	83.3	81.3	79.1	74.9	86.1	78.9	84.3	80.7	80.4
24	JH 31794	85.7	85.5	86.4	78.1	76.6	83.0	82.5	80.5	74.7	88.4	77.2	86.1	81.4	80.2
25	JH 31801	78.5	78.0	84.5	79.1	77.6	77.2	79.2	80.1	74.9	82.2	79.3	85.1	80.3	79.9
26	IH-1204	83.2	81.5	84.4	76.8	79.3	81.5	81.1	80.5	74.0	86.7	78.8	87.3	81.4	80.5
27	KMH-14-55	86.1	87.4	86.8	78.6	80.8	82.5	83.7	81.1	73.4	87.2	78.2	85.0	81.0	81.9
28	DH-304	79.3	81.1	83.8	80.6	77.5	79.4	80.3	80.9	73.1	87.6	79.7	87.8	81.8	79.9

TABLE No. 5 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ ZN 5 Mean	OV'L Mean
29	AH-7009R	78.4	79.0	87.1	77.2	79.6	79.0	80.0	80.8	75.8	88.7	79.1	86.5	82.2	80.9
30	AH9002	83.4	84.6	85.2	78.1	81.0	80.3	82.1	79.1	78.0	87.6	79.1	86.1	82.0	80.3
31	IH-0903	80.6	81.1	87.8	78.5	81.2	78.4	81.3	81.1	75.3	86.9	78.7	84.7	81.3	80.7
32	FH 3765	78.7	78.0	85.8	81.3	79.5	78.4	80.3	81.0	76.0	84.0	78.7	83.5	80.6	79.9
33	FH 3771	77.1	77.1	83.5	78.3	78.8	75.1	78.3	81.2	74.5	86.1	78.3	83.4	80.7	79.1
34	DH-305	80.1	77.1	84.9	79.3	80.7	81.0	80.5	80.8	73.7	81.3	78.5	80.3	78.9	80.0
35	BAUM-4	80.0	77.6	86.4	76.3	79.5	81.8	80.3	78.8	76.3	85.1	79.5	81.0	80.1	79.2
	CHECKS														
36	Vivek Hybrid 51(C)	79.9	80.7	84.0	78.9	80.3	80.3	80.7	78.8	76.1	84.7	77.4	86.5	80.7	80.0
37	Vivek Hybrid 45(C)	80.2	78.9	85.1	78.1	78.8	79.7	80.1	81.4	73.8	87.1	79.7	87.1	81.8	80.3
38	PMH5(C)	78.2	78.0	84.4	79.9	78.8	77.6	79.5	78.8	73.3	88.1	79.3	83.3	80.6	80.0
39	BIO605(C)	84.0	81.8	87.2	79.3	79.8	79.5	81.9	80.8	73.0	85.6	77.3	84.1	80.2	80.5
40	DKC 7074(C)	80.5	80.1	85.1	77.4	79.5	77.7	80.0	79.9	75.3	86.0	79.2	83.3	80.7	79.6
	Loc. Mean	**80.7**	**80.6**	**84.6**	**78.7**	**78.9**	**79.4**	**80.5**	**80.0**	**74.3**	**84.7**	**78.5**	**84.2**	**80.4**	**80.0**
	C.D. (5%)	4.41	2.35	6.47	1.25	2.16	0.46	2.72	0.53	2.17	3.48	3.06	0.00	2.71	1.28
	C.V. (%)	3.36	1.79	4.70	0.97	1.69	0.35	2.97	0.41	1.80	2.53	2.40	0.00	2.70	2.95
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.00

TABLE No. 5 (Contd.)

		STAND AT HARVEST ('000/ha)					NHZ ZN 1					NWPZ ZN 2						NEPZ ZN 3
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	AH-7007	64.6	49.1	75.7	74.1	84.7	65.9	81.3	59.4	72.9	60.7	68.6	44.4	59.0	70.8	68.8	65.3	77.1	64.2
2	FH 3763	62.5	48.1	77.1	70.6	88.9	64.6	75.7	59.4	71.5	64.4	67.8	46.1	57.6	69.6	66.0	65.3	75.0	63.3
3	KH-102	64.6	49.1	77.1	70.6	89.6	65.3	75.0	60.0	74.3	61.5	67.7	48.3	62.5	70.8	68.8	66.7	69.4	64.4
4	IH-0901	63.2	50.0	75.0	74.1	78.5	65.6	79.2	58.9	73.6	62.2	68.5	46.7	60.4	72.6	61.8	66.7	72.2	63.4
5	IH-0702	61.1	48.1	74.3	69.4	77.8	63.3	75.7	59.4	72.9	60.0	67.0	44.4	63.2	70.2	62.5	61.1	76.4	63.0
6	KMH-14-50	59.0	39.8	76.4	72.9	77.1	62.0	73.6	60.0	74.3	60.7	67.2	46.7	62.5	66.1	64.6	64.6	68.8	62.2
7	DMRH 1417	59.0	43.5	75.7	70.6	58.3	62.2	68.8	60.6	77.1	57.8	66.0	40.0	60.4	64.3	66.7	56.3	59.0	57.8
8	HKH 351	61.1	53.7	75.7	69.4	84.7	65.0	82.6	57.2	68.8	63.7	68.1	41.7	62.5	70.8	71.5	76.4	77.1	66.7
9	KMH-14-46	63.2	50.0	76.4	71.8	91.0	65.3	80.6	60.6	70.8	59.3	67.8	43.9	60.4	70.8	66.7	70.8	66.0	63.1
10	AH-7154	66.0	51.9	76.4	76.4	81.3	67.7	82.6	58.3	74.3	63.7	69.7	53.9	60.4	72.6	70.1	62.5	77.1	66.1
11	JH 31816	64.6	54.6	75.7	70.6	97.9	66.4	82.6	59.4	70.1	63.7	69.0	40.6	62.5	73.8	68.8	71.5	79.2	66.1
12	JH 31784	65.3	51.9	77.8	75.2	90.3	67.5	81.3	60.6	77.1	59.3	69.5	42.2	64.6	69.0	68.8	72.9	75.7	65.5
13	FH 3768	60.4	51.9	75.7	70.6	81.3	64.6	75.7	58.9	71.5	65.9	68.0	42.2	63.9	74.4	69.4	61.8	73.6	64.2
14	BAUMC-5	60.4	50.9	72.2	74.1	69.4	64.4	72.9	58.9	72.9	58.5	65.8	37.2	60.4	70.8	68.1	66.7	68.1	61.9
15	JH 31783	64.6	49.1	74.3	78.7	77.8	66.7	81.9	60.0	72.9	61.5	69.1	45.0	63.9	67.3	70.8	68.1	79.9	65.8
16	KDMH-105	56.9	45.4	77.8	69.4	72.2	62.4	81.3	60.0	75.0	65.2	70.4	53.3	62.5	68.5	61.1	66.7	79.9	65.3
17	MH 21	62.5	50.9	76.4	71.8	52.1	65.4	79.2	59.4	75.0	64.4	69.5	46.7	58.3	67.9	64.6	71.5	71.5	63.4
18	JH 31780	59.0	45.4	75.0	70.6	84.0	62.5	81.9	58.9	74.3	60.7	69.0	48.3	60.4	65.5	70.8	59.7	77.1	63.6
19	HKH 352	65.3	47.2	75.7	75.2	72.2	65.9	79.9	60.6	77.1	65.9	70.9	43.3	62.5	70.2	70.8	70.1	70.8	64.6
20	WH-2093	61.8	40.7	75.0	71.8	80.6	62.3	80.6	58.9	70.8	63.0	68.3	52.8	62.5	72.6	71.5	65.3	73.6	66.4
21	AH-7204	60.4	46.3	75.0	71.8	71.5	63.4	79.9	61.1	74.3	64.4	69.9	40.6	62.5	64.3	68.8	69.4	76.4	63.7
22	WH-2096	61.8	39.8	75.0	69.4	77.1	61.5	77.1	60.6	70.1	58.5	66.6	38.3	62.5	67.9	68.8	63.2	74.3	62.5
23	MH 22	61.8	49.1	74.3	71.8	86.8	64.2	84.7	57.8	77.1	63.0	70.6	51.1	64.6	68.5	68.8	75.0	79.9	68.0
24	JH 31794	61.1	53.7	76.4	71.8	92.4	65.7	87.5	60.6	71.5	60.0	69.9	50.0	59.7	68.5	68.1	72.9	67.4	64.4
25	JH 31801	57.6	49.1	75.7	74.1	84.0	64.1	75.7	59.4	72.9	62.2	67.6	42.2	62.5	72.0	73.6	63.9	78.5	65.5
26	IH-1204	61.8	45.4	76.4	75.2	75.7	64.7	77.1	58.9	72.9	60.7	67.4	45.0	60.4	63.7	67.4	67.4	73.6	62.9
27	KMH-14-55	59.7	38.0	78.5	70.6	68.1	61.7	68.1	60.6	75.0	59.3	65.7	39.4	61.8	61.9	65.3	72.2	70.8	61.9
28	DH-304	61.8	44.4	75.0	71.8	80.6	63.3	83.3	60.6	72.9	65.2	70.5	36.1	61.8	64.9	67.4	59.0	77.8	61.2

TABLE No. 5 (Contd.)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) ALMO	BAJA	UDHA	KANG	GOSS	NHZ ZN 1 Mean	LUDH	KARN	KANP	PANT	NWPZ ZN 2 Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	NEPZ ZN 3 Mean
29	AH-7009R	63.9	48.1	75.7	76.4	86.1	66.0	78.5	57.2	75.0	63.0	68.4	49.4	62.5	65.5	68.8	61.1	77.8	64.2
30	AH9002	59.0	47.2	75.7	69.4	87.5	62.8	81.3	60.0	75.0	59.3	68.9	45.6	63.2	70.8	70.8	64.6	71.5	64.4
31	IH-0903	62.5	48.1	75.7	72.9	75.7	64.8	83.3	57.8	74.3	60.7	69.0	44.4	61.8	72.6	62.5	63.9	70.1	62.6
32	FH 3765	63.2	51.9	77.8	72.9	84.7	66.4	87.5	57.2	76.4	62.2	70.8	36.1	61.8	64.9	-	59.7	68.1	58.1
33	FH 3771	62.5	44.4	75.7	71.8	81.9	63.6	86.1	58.9	73.6	58.5	69.3	45.0	63.2	73.2	-	68.1	75.0	64.9
34	DH-305	60.4	44.4	75.0	70.6	84.7	62.6	75.0	59.4	70.1	60.7	66.3	42.2	61.8	71.4	68.1	66.0	74.3	64.0
35	BAUM-4	61.8	36.1	75.7	74.1	80.6	61.9	74.3	58.9	71.5	62.2	66.7	40.6	60.4	70.2	68.1	70.8	68.1	63.0
	CHECKS																		
36	Vivek Hybrid 51(C)	61.8	45.4	78.5	75.2	83.3	65.2	80.6	60.6	72.2	65.2	69.6	48.3	61.8	67.9	63.9	73.6	77.8	65.5
37	Vivek Hybrid 45(C)	64.6	43.5	79.9	71.8	57.6	64.9	77.8	58.9	72.2	62.2	67.8	47.8	59.0	71.4	67.4	56.3	75.0	62.8
38	PMH5(C)	61.8	47.2	77.1	71.8	72.9	64.5	80.6	59.4	77.1	64.4	70.4	49.4	59.7	65.5	66.0	57.6	77.8	62.7
39	BIO605(C)	63.2	44.4	72.2	70.6	86.1	62.6	75.7	60.0	68.8	62.2	66.7	46.7	63.9	66.1	66.0	61.1	61.8	60.9
40	DKC 7074(C)	63.2	54.6	77.8	81.0	76.4	69.2	86.1	60.6	72.2	64.4	70.8	44.4	62.5	60.7	67.4	75.0	77.8	64.6
	Loc. Mean	**62.0**	**47.3**	**76.0**	**72.6**	**79.6**	**64.5**	**79.3**	**59.4**	**73.3**	**62.0**	**68.5**	**44.8**	**61.7**	**68.8**	**67.6**	**66.3**	**73.5**	**63.7**
	C.D. (5%)	4.09	6.24	3.16	5.36	28.25	3.67	7.97	3.26	4.14	5.12	3.90	12.95	4.85	7.97	6.45	5.73	9.74	4.34
	C.V. (%)	4.06	8.11	2.56	4.55	21.83	4.06	6.18	3.37	3.48	5.08	4.07	17.80	4.83	7.13	5.72	5.32	8.15	5.99
	F (Prob)	0.00	0.00	0.01	0.01	0.64	0.00	0.00	0.79	0.00	0.04	0.28	0.55	0.58	0.08	0.03	0.00	0.00	0.01

Locations Rejected due to High C.V. : GOSSAIGAON 21.8%

TABLE No. 5 (Contd.)

		STAND AT HARVEST ('000/ha)						PZ						CWZ	
								ZN 4						ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	AH-7007	65.6	60.6	73.6	67.4	52.8	65.3	64.2	61.8	61.8	65.6	63.2	67.7	64.0	65.1
2	FH 3763	61.7	47.2	67.4	64.6	58.3	64.6	60.6	52.8	60.4	63.9	66.7	57.3	60.2	63.0
3	KH-102	65.6	63.3	67.4	75.0	59.7	65.3	66.0	53.5	61.8	63.9	89.6	72.9	68.3	66.3
4	IH-0901	65.6	52.2	61.8	65.3	55.6	66.0	61.1	58.3	56.3	65.0	62.5	64.6	61.3	63.6
5	IH-0702	61.7	53.9	66.7	69.4	58.3	62.5	62.1	63.2	60.4	65.6	69.4	62.5	64.2	63.7
6	KMH-14-50	59.4	56.1	59.7	69.4	54.2	63.2	60.3	62.5	61.1	61.7	68.8	69.8	64.8	63.0
7	DMRH 1417	62.8	39.4	51.4	61.1	33.3	63.2	51.9	53.5	61.1	53.3	66.0	50.0	56.8	58.2
8	HKH 351	58.9	60.0	61.8	67.4	53.5	66.0	61.3	47.9	59.0	65.6	77.1	59.4	61.8	64.3
9	KMH-14-46	66.7	64.4	63.2	66.0	52.8	66.7	63.3	57.6	59.0	66.1	71.5	67.7	64.4	64.5
10	AH-7154	62.8	61.1	73.6	66.0	58.3	64.6	64.4	63.2	63.2	66.7	75.0	82.3	70.1	67.3
11	JH 31816	65.0	62.8	70.1	68.8	61.1	64.6	65.4	55.6	63.2	65.0	66.0	54.2	60.8	65.4
12	JH 31784	58.9	59.4	68.1	76.4	57.6	66.0	64.4	59.7	63.9	65.0	84.7	62.5	67.2	66.5
13	FH 3768	64.4	54.4	64.6	65.3	58.3	66.7	62.3	57.6	58.3	63.3	66.0	63.5	61.8	63.9
14	BAUMC-5	58.9	62.8	70.1	70.1	56.9	64.6	63.9	61.8	61.1	62.2	72.2	56.3	62.7	63.6
15	JH 31783	63.3	55.0	63.2	68.1	57.6	64.6	62.0	47.9	61.1	66.1	61.8	61.5	59.7	64.3
16	KDMH-105	65.6	62.8	71.5	67.4	56.3	63.9	64.6	62.5	56.3	65.0	73.6	62.5	64.0	65.2
17	MH 21	63.3	55.6	52.8	69.4	52.1	65.3	59.7	50.7	60.4	65.0	69.4	81.3	65.4	64.2
18	JH 31780	57.2	37.2	61.8	69.4	59.7	63.9	58.2	62.5	57.6	63.9	69.4	71.9	65.1	63.3
19	HKH 352	65.6	59.4	71.5	67.4	57.6	66.0	64.6	56.3	54.2	63.3	70.8	69.8	62.9	65.5
20	WH-2093	62.2	57.2	67.4	64.6	54.9	64.6	61.8	54.9	59.0	64.4	59.0	68.8	61.2	63.9
21	AH-7204	56.1	51.1	66.0	69.4	57.6	63.2	60.6	50.0	54.2	65.6	61.1	54.2	57.0	62.5
22	WH-2096	58.3	56.7	68.8	62.5	50.7	65.3	60.4	61.1	61.8	68.3	62.5	61.5	63.0	62.6
23	MH 22	66.7	52.8	68.8	69.4	59.0	63.2	63.3	51.4	61.1	61.1	76.4	74.0	64.8	66.0
24	JH 31794	60.6	43.9	64.6	66.7	57.6	65.3	59.8	47.9	59.7	66.7	61.1	62.5	59.6	63.4
25	JH 31801	64.4	55.6	68.8	66.7	54.9	66.0	62.7	63.9	63.2	65.0	69.4	68.8	66.1	65.0
26	IH-1204	66.7	60.0	61.1	63.9	48.6	66.0	61.0	59.7	60.4	66.1	58.3	61.5	61.2	63.1
27	KMH-14-55	47.2	32.2	55.6	60.4	37.5	63.9	49.5	55.6	56.3	52.8	64.6	43.8	54.6	58.0
28	DH-304	59.4	50.6	69.4	72.2	59.0	63.9	62.4	54.9	59.7	66.1	77.1	53.1	62.2	63.5

TABLE No. 5 (Contd.)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ ZN 5 Mean	OV'L Mean
29	AH-7009R	66.7	64.4	71.5	66.0	57.6	66.0	65.4	56.3	58.3	66.7	69.4	62.5	62.6	65.1
30	AH9002	59.4	57.2	63.2	66.7	57.6	64.6	61.5	54.9	59.0	62.8	81.3	58.3	63.3	63.9
31	IH-0903	63.9	55.6	66.0	73.6	54.2	68.1	63.5	56.9	59.7	63.9	66.7	61.5	61.7	64.0
32	FH 3765	65.6	64.4	71.5	66.0	56.9	66.0	65.1	51.4	63.2	62.2	73.6	56.3	61.3	64.0
33	FH 3771	66.7	51.1	67.4	68.1	56.9	66.0	62.7	54.2	63.9	63.3	76.4	44.8	60.5	63.9
34	DH-305	62.8	58.3	64.6	65.3	58.3	63.2	62.1	56.9	59.0	66.7	67.4	58.3	61.7	63.2
35	BAUM-4	59.4	47.8	64.6	63.2	43.1	63.9	57.0	51.4	62.5	62.8	56.3	65.6	59.7	61.3
	CHECKS														
36	Vivek Hybrid 51(C)	61.7	64.4	73.6	67.4	58.3	63.9	64.9	58.3	61.8	64.4	76.4	77.1	67.6	66.4
37	Vivek Hybrid 45(C)	63.9	56.1	63.9	59.7	61.1	65.3	61.7	59.7	63.9	66.7	70.1	71.9	66.5	64.4
38	PMH5(C)	61.1	61.7	63.9	68.1	57.6	64.6	62.8	63.9	62.5	64.4	78.5	65.6	67.0	65.1
39	BIO605(C)	60.6	54.4	58.3	61.8	57.6	64.6	59.6	45.1	59.0	63.3	70.8	33.3	54.3	60.5
40	DKC 7074(C)	66.1	55.6	71.5	68.1	56.9	66.0	64.0	63.9	62.5	65.6	81.3	69.8	68.6	67.0
	Loc. Mean	**62.3**	**55.5**	**65.8**	**67.1**	**55.3**	**64.9**	**61.8**	**56.5**	**60.3**	**64.1**	**70.0**	**62.8**	**62.7**	**64.0**
	C.D. (5%)	5.98	5.98	11.68	7.63	4.66	3.00	4.61	7.49	6.92	5.01	7.96	8.89	7.10	2.28
	C.V. (%)	5.91	6.63	10.93	7.00	5.19	2.84	6.55	8.15	7.07	4.80	6.99	7.00	9.06	6.43
	F (Prob)	0.00	0.00	0.03	0.02	0.00	0.19	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00

TABLE No. 5 (Contd.)

		DAYS TO 50% POLLEN SHED					NHZ ZN 1					NWPZ ZN 2						NEPZ ZN 3
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	AH-7007	57.3	52.0	45.3	45.7	50.3	50.1	46.3	43.3	43.3	46.7	44.9	48.7	43.0	43.3	46.7	51.3	44.0	46.2
2	FH 3763	58.7	52.7	48.0	48.3	54.3	52.4	47.3	45.3	54.3	47.3	48.6	52.0	45.0	50.7	51.0	55.3	49.3	50.6
3	KH-102	59.7	55.0	47.7	49.3	52.3	52.8	50.3	46.7	54.7	49.0	50.2	51.7	44.0	50.7	52.0	56.3	50.7	50.9
4	IH-0901	58.0	52.3	46.0	47.3	49.3	50.6	47.0	45.0	50.3	46.7	47.3	50.3	44.0	46.0	49.0	54.3	45.7	48.2
5	IH-0702	58.7	53.0	47.0	46.0	46.7	50.3	49.3	45.0	47.3	46.7	47.1	49.7	42.0	44.7	48.3	52.3	44.0	46.8
6	KMH-14-50	61.3	55.3	45.7	45.0	54.0	52.3	47.0	47.7	45.3	48.3	47.1	50.7	44.0	49.3	49.0	53.3	47.3	48.9
7	DMRH 1417	60.0	56.3	48.3	48.7	52.0	53.1	49.0	49.0	45.0	49.7	48.2	53.0	47.0	52.0	54.7	55.7	54.0	52.7
8	HKH 351	58.7	51.0	47.0	48.0	51.3	51.2	50.3	45.0	46.0	48.3	47.4	52.7	44.0	48.7	50.0	52.3	48.0	49.3
9	KMH-14-46	58.3	55.3	45.0	45.7	52.0	51.3	44.0	49.0	45.0	48.0	46.5	53.0	44.0	46.3	48.7	52.7	46.0	48.4
10	AH-7154	59.3	53.7	49.0	49.0	50.7	52.3	45.7	48.0	46.0	46.7	46.6	49.3	42.0	46.3	47.3	51.3	43.7	46.7
11	JH 31816	61.0	55.7	49.0	50.0	50.3	53.2	48.7	48.7	48.3	46.3	48.0	52.3	45.0	46.0	48.7	54.3	46.7	48.8
12	JH 31784	60.7	56.3	48.0	50.0	52.7	53.5	48.7	47.3	45.3	49.7	47.8	54.7	45.0	46.0	48.0	55.7	47.0	49.4
13	FH 3768	58.0	55.3	46.7	48.3	53.0	52.3	48.3	45.0	46.0	47.3	46.7	53.0	45.0	47.7	49.3	54.7	49.7	49.9
14	BAUMC-5	64.7	60.3	48.7	52.0	53.0	55.7	53.7	49.0	48.3	48.7	49.9	50.0	49.0	53.3	55.0	56.3	51.0	52.4
15	JH 31783	61.0	53.7	47.0	48.0	50.7	52.1	47.3	44.7	45.3	46.7	46.0	51.3	46.0	46.7	47.3	51.3	46.7	48.2
16	KDMH-105	62.3	55.7	47.3	51.0	52.0	53.7	50.7	46.3	46.7	47.7	47.8	50.3	45.0	50.7	53.7	51.7	46.7	49.7
17	MH 21	59.3	55.3	48.3	48.3	53.0	52.9	48.0	48.0	45.3	47.7	47.3	53.0	44.0	47.0	49.7	55.3	48.0	49.5
18	JH 31780	59.7	53.0	47.0	47.3	51.7	51.7	49.3	51.7	45.0	47.7	48.4	51.0	47.0	48.3	50.7	54.3	47.7	49.8
19	HKH 352	60.3	54.3	49.0	50.3	50.0	52.8	50.7	48.0	46.0	47.0	47.9	51.7	46.0	47.3	49.0	56.3	48.0	49.7
20	WH-2093	54.7	50.3	46.3	44.3	50.3	49.2	46.3	47.0	45.0	46.7	46.3	49.0	44.0	45.3	49.3	53.3	44.3	47.6
21	AH-7204	56.7	50.7	46.0	46.3	47.3	49.4	46.0	46.0	43.3	47.0	45.6	51.0	43.0	47.7	48.7	50.3	46.7	47.9
22	WH-2096	54.0	50.7	47.0	43.0	50.3	49.0	46.0	46.3	45.3	46.7	46.1	49.3	44.0	44.7	45.0	50.3	45.7	46.5
23	MH 22	59.3	56.0	48.3	47.0	52.3	52.6	49.3	47.0	47.0	49.0	48.1	51.0	45.0	50.0	51.0	55.3	48.3	50.1
24	JH 31794	58.7	56.3	49.0	48.7	51.7	52.9	51.3	49.0	51.3	49.3	50.3	52.7	46.0	47.3	52.7	56.3	46.7	50.3
25	JH 31801	58.0	51.3	47.0	47.7	52.0	51.2	45.3	46.7	54.3	46.7	48.3	49.3	43.0	47.0	48.3	53.7	45.7	47.8
26	IH-1204	61.0	53.7	45.3	48.0	48.7	51.3	48.3	44.7	52.7	46.0	47.9	47.3	41.0	43.0	50.7	48.3	42.3	45.4
27	KMH-14-55	54.7	52.7	45.3	44.0	49.3	49.2	44.3	44.0	51.0	46.3	46.4	49.0	42.0	44.3	48.0	52.3	46.0	46.9
28	DH-304	58.3	56.7	49.0	51.7	51.0	53.3	51.0	47.0	56.3	48.0	50.6	54.0	45.0	55.0	51.0	55.3	50.0	51.7

TABLE No. 5 (Contd.)

		DAYS TO 50% POLLEN SHED					NHZ ZN 1					NWPZ ZN 2							NEPZ ZN 3
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
29	AH-7009R	56.3	51.0	45.3	47.0	51.3	50.2	49.0	47.0	55.7	47.3	49.8	50.3	44.0	46.7	47.7	53.7	43.3	47.6
30	AH9002	58.7	54.7	49.0	48.7	52.3	52.7	50.0	46.3	53.0	50.0	49.8	53.0	44.0	49.7	52.0	51.7	49.0	49.9
31	IH-0903	56.7	51.0	46.0	46.3	47.0	49.4	44.0	44.7	53.0	46.3	47.0	49.0	43.0	46.7	47.7	51.3	45.7	47.2
32	FH 3765	59.0	54.3	47.7	51.3	54.0	53.3	49.0	51.0	54.0	50.3	51.1	50.7	48.0	57.3	-	52.3	51.7	52.0
33	FH 3771	59.7	55.7	48.0	49.7	51.7	52.9	48.3	45.7	52.7	50.7	49.3	51.0	44.0	48.3	-	52.3	46.0	48.3
34	DH-305	57.0	53.7	46.0	48.3	51.3	51.3	47.7	43.0	48.7	47.7	46.8	50.3	44.0	46.0	46.7	46.7	47.3	46.8
35	BAUM-4	54.7	51.3	47.7	45.7	46.3	49.1	43.7	44.7	48.0	47.7	46.0	49.3	44.0	43.3	44.7	46.3	40.0	44.6
	CHECKS																		
36	Vivek Hybrid 51(C)	56.7	49.0	47.7	46.3	50.0	49.9	46.7	45.0	45.0	47.0	45.9	51.7	44.0	46.7	47.0	53.3	47.3	48.3
37	Vivek Hybrid 45(C)	57.7	53.7	49.0	46.7	51.7	51.7	45.0	44.7	46.3	48.7	46.2	48.0	45.0	47.7	48.0	55.7	44.0	48.1
38	PMH5(C)	57.7	51.7	47.3	46.7	51.0	50.9	44.3	43.0	51.7	46.0	46.3	50.3	43.0	46.7	47.0	50.3	45.7	47.2
39	BIO605(C)	61.3	57.3	47.3	50.7	52.3	53.8	49.3	48.0	47.3	49.0	48.4	51.7	44.0	48.3	54.0	55.3	50.0	50.6
40	DKC 7074(C)	62.3	58.3	49.0	53.3	50.0	54.6	51.3	50.3	50.0	48.7	50.1	53.0	44.0	52.3	55.7	54.7	49.7	51.6
	Loc. Mean	**58.8**	**53.9**	**47.3**	**48.0**	**51.0**	**51.8**	**48.0**	**46.6**	**48.6**	**47.8**	**47.7**	**51.0**	**44.4**	**47.9**	**49.6**	**53.1**	**47.0**	**48.8**
	C.D. (5%)	1.54	2.15	0.67	1.79	3.61	1.79	2.82	0.88	2.90	2.56	3.26	3.27	1.63	1.39	3.02	1.97	3.43	1.88
	C.V. (%)	1.61	2.45	0.87	2.29	4.35	2.77	3.62	1.16	3.66	3.30	4.87	3.94	2.26	1.79	3.65	2.28	4.49	3.39
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 5 (Contd.)

		DAYS TO 50% POLLEN SHED						PZ						CWZ	
								ZN 4						ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	AH-7007	50.3	47.3	54.3	48.0	45.3	43.3	48.1	51.7	46.0	51.0	44.7	46.5	48.0	47.5
2	FH 3763	51.0	49.3	55.7	47.3	46.3	46.3	49.3	52.7	47.7	56.0	49.7	48.5	50.9	50.4
3	KH-102	53.7	50.0	56.0	50.3	49.3	46.7	51.0	55.7	47.3	57.7	49.7	50.0	52.1	51.4
4	IH-0901	51.0	48.7	55.7	49.0	46.0	44.3	49.1	51.0	47.0	55.7	50.7	48.0	50.5	49.2
5	IH-0702	50.7	48.3	53.3	45.3	44.0	41.7	47.2	52.7	47.7	52.3	43.7	45.0	48.3	47.9
6	KMH-14-50	51.0	49.7	56.7	50.7	46.0	42.7	49.4	55.3	46.0	57.3	47.7	50.5	51.4	49.9
7	DMRH 1417	51.7	53.0	55.7	51.7	50.3	46.7	51.5	51.0	45.7	55.0	47.7	47.5	49.4	51.2
8	HKH 351	51.3	51.0	56.3	51.3	47.0	45.7	50.4	53.7	45.3	56.0	49.7	51.0	51.1	50.0
9	KMH-14-46	51.3	48.3	55.3	50.0	46.3	43.7	49.2	55.0	47.0	55.7	45.7	47.0	50.1	49.2
10	AH-7154	51.0	48.7	55.0	51.3	47.0	42.7	49.3	54.3	47.7	55.0	46.7	47.0	50.1	49.0
11	JH 31816	53.0	51.7	56.7	51.0	46.7	45.7	50.8	55.3	46.7	56.0	49.7	50.5	51.6	50.5
12	JH 31784	51.3	50.7	57.0	52.0	51.0	46.3	51.4	56.0	46.7	56.0	47.7	51.0	51.5	50.8
13	FH 3768	50.3	53.0	55.0	51.7	47.7	45.7	50.6	54.7	46.0	56.3	50.7	49.0	51.3	50.3
14	BAUMC-5	57.0	50.0	57.3	53.7	51.0	51.3	53.4	58.3	47.0	59.7	53.7	54.0	54.5	53.3
15	JH 31783	54.3	52.0	56.3	51.0	46.3	45.7	50.9	54.3	47.0	55.7	49.7	50.5	51.4	49.9
16	KDMH-105	52.0	52.3	56.7	50.0	47.0	45.3	50.6	59.7	45.7	57.0	51.7	50.0	52.8	51.0
17	MH 21	53.7	50.3	57.3	51.7	50.3	46.0	51.6	57.0	46.7	56.7	48.7	53.0	52.4	50.8
18	JH 31780	52.0	52.3	55.3	51.3	50.7	48.3	51.7	51.3	45.3	55.7	50.7	48.5	50.3	50.5
19	HKH 352	51.3	51.0	56.0	51.0	47.3	44.7	50.2	52.3	47.3	55.7	47.7	49.0	50.4	50.3
20	WH-2093	51.3	49.7	53.7	46.0	46.0	42.7	48.2	56.3	46.0	52.3	45.7	47.5	49.6	48.2
21	AH-7204	51.3	48.7	53.3	48.3	45.3	42.7	48.3	54.3	47.3	52.0	44.7	47.0	49.1	48.1
22	WH-2096	51.3	47.7	52.7	48.0	44.7	40.7	47.5	53.7	46.7	52.7	45.7	47.5	49.2	47.7
23	MH 22	55.0	53.7	56.7	52.0	50.7	48.3	52.7	58.0	46.7	57.3	52.7	53.0	53.5	51.5
24	JH 31794	53.0	51.0	56.0	50.7	50.3	44.7	50.9	55.7	47.3	55.7	49.7	49.5	51.6	51.2
25	JH 31801	50.7	49.0	55.0	51.3	47.3	44.7	49.7	52.0	46.3	55.7	52.7	46.5	50.6	49.5
26	IH-1204	49.7	47.3	51.0	46.3	41.3	38.7	45.7	52.3	46.0	51.0	44.7	46.0	48.0	47.5
27	KMH-14-55	51.3	48.3	54.7	48.3	46.0	43.3	48.7	52.7	47.0	52.7	44.7	51.0	49.6	48.2
28	DH-304	53.3	52.0	55.3	51.3	50.7	45.7	51.4	56.3	47.0	56.0	50.7	53.5	52.7	52.0

TABLE No. 5 (Contd.)

		DAYS TO 50% POLLEN SHED						PZ						CWZ	
								ZN 4						ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
29	AH-7009R	51.7	50.3	54.3	48.3	46.0	44.3	49.2	53.0	47.0	54.7	50.7	48.5	50.8	49.4
30	AH9002	51.0	50.7	55.0	51.3	49.7	46.3	50.7	52.7	47.7	56.0	48.7	51.0	51.2	50.8
31	IH-0903	50.3	49.0	55.0	48.0	45.3	42.7	48.4	51.7	47.3	52.3	45.7	47.0	48.8	48.2
32	FH 3765	51.7	56.0	55.7	53.0	50.3	47.3	52.3	57.7	46.7	57.0	49.3	52.5	52.6	52.3
33	FH 3771	51.3	51.0	55.7	51.3	47.3	45.3	50.3	52.7	47.3	56.0	46.7	50.0	50.5	50.3
34	DH-305	50.7	47.7	54.7	49.7	46.3	44.0	48.8	56.3	46.0	53.7	45.7	47.0	49.7	48.7
35	BAUM-4	47.7	46.7	50.0	44.0	43.7	39.3	45.2	52.7	45.7	51.7	43.7	46.5	48.0	46.5
	CHECKS														
36	Vivek Hybrid 51(C)	51.3	48.7	55.3	48.7	46.0	43.0	48.8	52.7	47.0	53.0	47.7	49.0	49.9	48.7
37	Vivek Hybrid 45(C)	52.0	49.0	53.7	50.3	44.7	43.0	48.8	52.7	47.3	54.3	47.7	48.5	50.1	49.0
38	PMH5(C)	52.3	49.3	55.7	49.3	46.3	44.7	49.6	54.7	47.0	55.0	50.7	49.0	51.3	49.1
39	BIO605(C)	54.0	53.0	57.0	51.3	47.3	48.7	51.9	53.0	47.0	56.3	49.7	54.5	52.1	51.5
40	DKC 7074(C)	55.3	54.0	55.3	51.7	50.3	47.3	52.3	53.7	47.0	56.7	49.7	49.5	51.3	52.0
	Loc. Mean	**51.9**	**50.3**	**55.2**	**49.9**	**47.3**	**44.8**	**49.9**	**54.2**	**46.7**	**55.1**	**48.3**	**49.3**	**50.7**	**49.8**
	C.D. (5%)	1.61	1.62	1.73	1.37	0.83	0.93	1.32	1.44	1.46	1.16	0.54	4.31	1.97	0.91
	C.V. (%)	1.91	1.99	1.93	1.69	1.08	1.27	2.33	1.64	1.93	1.30	0.69	4.32	3.12	3.35
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00

TABLE No. 5 (Contd.)

		DAYS TO 50% SILKING					NHZ ZN 1					NWPZ ZN 2						NEPZ ZN 3
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	AH-7007	58.0	54.0	49.0	48.0	59.0	53.6	49.3	45.3	46.3	50.0	47.8	51.3	46.3	47.7	53.7	53.3	48.0	50.1
2	FH 3763	59.3	54.7	51.0	51.0	61.0	55.4	48.7	47.3	57.0	50.3	50.8	54.0	48.0	55.0	55.3	57.3	53.7	53.9
3	KH-102	61.0	57.0	51.0	53.7	58.7	56.3	52.0	49.7	57.7	52.0	52.8	54.0	47.0	55.0	58.0	58.3	55.0	54.6
4	IH-0901	59.3	54.3	49.0	51.0	57.3	54.2	48.0	47.0	53.3	50.0	49.6	53.3	47.0	50.3	54.3	56.3	49.0	51.7
5	IH-0702	60.0	55.3	51.0	49.0	54.0	53.9	51.0	47.0	50.3	49.7	49.5	52.0	45.0	49.3	54.7	54.3	48.3	50.6
6	KMH-14-50	62.7	57.3	49.3	49.0	57.7	55.2	50.3	49.7	48.7	51.0	49.9	53.0	48.0	53.7	55.0	55.3	54.3	53.2
7	DMRH 1417	60.7	58.7	51.3	53.3	58.3	56.5	50.3	51.0	47.7	52.7	50.4	55.7	50.0	56.7	59.3	57.7	58.0	56.2
8	HKH 351	60.0	53.0	51.0	51.3	58.7	54.8	50.7	47.0	50.0	51.3	49.8	55.3	47.0	53.0	54.7	54.3	50.7	52.5
9	KMH-14-46	59.7	57.3	49.0	48.0	58.3	54.5	48.0	51.0	47.7	51.3	49.5	55.3	47.0	50.7	54.0	54.3	50.7	52.0
10	AH-7154	60.3	55.7	52.0	52.7	58.0	55.7	47.0	50.0	49.3	49.3	48.9	52.0	45.0	50.0	54.0	53.3	47.0	50.2
11	JH 31816	61.7	57.7	53.0	54.3	57.7	56.9	50.3	50.7	51.3	48.7	50.3	54.7	48.0	50.7	55.3	56.3	50.0	52.5
12	JH 31784	61.0	58.3	52.0	54.7	59.3	57.1	50.3	49.3	48.3	52.7	50.2	56.7	48.3	51.3	53.3	57.7	51.0	53.1
13	FH 3768	59.0	57.3	50.0	51.3	60.0	55.5	49.7	47.0	49.3	50.3	49.1	55.3	48.0	52.3	53.7	56.7	53.7	53.3
14	BAUMC-5	66.3	62.3	52.0	56.3	61.3	59.7	55.3	51.0	51.3	52.0	52.4	53.0	52.0	58.7	60.0	58.3	56.7	56.4
15	JH 31783	61.7	55.7	50.3	52.3	58.7	55.7	49.3	46.7	48.3	49.7	48.5	54.0	49.0	50.7	52.7	53.3	50.7	51.7
16	KDMH-105	63.0	57.7	51.0	55.0	60.3	57.4	52.0	48.3	50.0	51.0	50.3	53.0	48.7	55.3	58.3	53.7	51.0	53.3
17	MH 21	61.0	57.3	51.7	52.0	59.0	56.2	50.0	50.0	48.7	50.7	49.8	55.3	47.7	51.0	55.7	57.3	54.3	53.6
18	JH 31780	61.0	55.0	51.0	51.0	59.3	55.5	51.0	53.7	47.7	50.3	50.7	52.7	50.0	52.3	56.7	56.3	53.0	53.5
19	HKH 352	62.3	56.7	52.0	54.7	57.0	56.5	52.0	50.0	50.0	50.7	50.7	54.0	49.0	51.7	54.3	58.3	52.7	53.3
20	WH-2093	56.3	52.3	49.7	47.3	57.0	52.5	48.7	49.0	47.7	49.7	48.8	52.0	47.3	49.3	55.3	55.3	49.3	51.4
21	AH-7204	58.3	52.7	50.0	50.3	54.3	53.1	48.0	48.0	46.3	50.0	48.1	53.7	46.7	51.3	54.0	52.3	50.7	51.4
22	WH-2096	56.0	52.7	50.3	47.3	58.7	53.0	47.3	48.3	48.3	50.0	48.5	51.7	47.0	48.7	52.3	52.3	50.0	50.3
23	MH 22	61.3	58.0	52.0	51.3	59.3	56.4	50.0	49.0	50.7	52.3	50.5	53.7	48.0	55.3	55.7	57.3	53.3	53.9
24	JH 31794	59.0	58.3	53.0	53.3	58.0	56.3	52.7	51.0	55.3	53.0	53.0	55.3	49.0	51.7	57.0	58.3	51.7	53.8
25	JH 31801	59.7	53.3	50.7	50.7	59.7	54.8	47.3	48.7	57.7	49.7	50.8	52.3	46.3	51.7	53.3	55.7	49.3	51.4
26	IH-1204	62.3	55.7	49.0	51.7	56.7	55.1	50.0	46.7	56.7	49.0	50.6	50.0	44.0	46.0	55.7	50.3	46.7	48.8
27	KMH-14-55	56.7	54.7	49.3	46.3	56.7	52.7	45.7	46.0	55.0	49.3	49.0	51.7	45.0	48.7	54.0	54.3	50.7	50.7
28	DH-304	59.3	58.7	52.7	56.0	58.3	57.0	52.3	49.0	60.3	48.7	52.6	57.0	48.3	59.3	56.7	57.3	55.7	55.7

TABLE No. 5 (Contd.)

		DAYS TO 50% SILKING					NHZ					NWPZ						NEPZ
							ZN 1					ZN 2						ZN 3
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
29	AH-7009R	58.3	53.0	49.3	51.0	59.3	54.2	51.3	49.0	59.0	50.7	52.5	52.7	48.0	52.3	53.7	55.7	48.7	51.8
30	AH9002	59.3	56.7	53.0	52.7	58.7	56.1	50.3	48.3	56.3	53.0	52.0	55.3	47.0	54.3	58.0	53.7	52.3	53.4
31	IH-0903	58.7	53.0	50.0	49.7	54.3	53.1	47.3	46.7	57.0	50.0	50.3	52.3	46.3	51.0	53.3	53.3	50.7	51.2
32	FH 3765	59.7	56.3	51.3	55.0	60.7	56.6	50.3	53.0	53.7	53.0	52.5	53.3	51.0	61.7	-	54.3	56.7	55.4
33	FH 3771	60.7	57.7	51.7	53.7	58.7	56.5	50.0	47.7	52.3	53.7	50.9	53.7	47.0	52.7	-	54.3	50.7	51.7
34	DH-305	58.3	55.7	50.3	51.7	57.7	54.7	49.0	45.0	53.3	50.7	49.5	52.0	47.3	50.7	52.0	48.7	51.7	50.4
35	BAUM-4	56.3	53.3	51.3	49.7	54.7	53.1	46.0	46.7	52.0	50.7	48.8	51.7	47.0	46.7	50.7	48.3	44.0	48.1
	CHECKS																		
36	Vivek Hybrid 51(C)	58.3	51.3	50.7	50.0	56.7	53.4	48.7	47.0	49.3	49.7	48.7	53.7	47.0	52.0	54.3	55.3	51.3	52.3
37	Vivek Hybrid 45(C)	59.0	56.0	52.0	51.0	59.0	55.4	47.7	46.7	50.0	52.3	49.2	51.3	48.0	52.7	54.7	57.7	50.0	52.4
38	PMH5(C)	58.7	53.7	50.3	50.0	58.3	54.2	45.3	45.0	55.0	49.0	48.6	52.7	46.0	51.3	53.0	52.3	49.7	50.8
39	BIO605(C)	62.7	59.3	51.3	54.0	60.3	57.5	50.7	50.0	51.3	52.0	51.0	54.0	47.0	53.0	59.0	57.3	54.7	54.2
40	DKC 7074(C)	62.7	60.7	52.0	57.3	56.7	57.9	52.3	52.3	52.3	51.7	52.2	55.7	47.0	56.3	61.7	56.7	53.0	55.1
	Loc. Mean	**60.0**	**56.0**	**50.9**	**51.7**	**58.2**	**55.4**	**49.7**	**48.6**	**51.8**	**50.8**	**50.2**	**53.5**	**47.5**	**52.3**	**55.2**	**55.1**	**51.5**	**52.5**
	C.D. (5%)	1.37	2.21	0.68	1.86	3.81	1.84	2.45	0.88	2.68	2.76	3.31	3.15	1.64	1.51	3.27	1.99	3.70	1.91
	C.V. (%)	1.41	2.43	0.83	2.21	4.03	2.66	3.04	1.11	3.18	3.34	4.71	3.62	2.12	1.77	3.55	2.23	4.42	3.20
	F (Prob)	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.01	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 5 (Contd.)

		DAYS TO 50% SILKING						PZ						CWZ	
								ZN 4						ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	AH-7007	52.3	49.3	55.0	51.7	48.3	46.0	50.4	52.7	49.0	51.3	47.0	48.5	49.7	50.4
2	FH 3763	52.7	51.0	56.7	49.3	50.0	49.7	51.6	53.7	50.7	56.3	52.0	50.0	52.5	52.9
3	KH-102	55.7	52.0	56.7	52.7	52.3	49.7	53.2	57.3	50.3	58.7	52.0	51.0	53.9	54.2
4	IH-0901	53.0	50.0	57.0	52.0	49.7	46.7	51.4	52.3	50.0	56.0	53.0	50.0	52.3	51.9
5	IH-0702	52.7	50.7	53.7	47.3	47.7	45.3	49.6	54.7	50.7	52.3	45.7	47.5	50.2	50.7
6	KMH-14-50	53.0	51.3	57.3	54.3	49.7	45.7	51.9	56.7	49.0	58.3	50.0	53.0	53.4	52.8
7	DMRH 1417	53.7	54.7	56.0	53.3	54.0	49.7	53.6	52.3	48.7	55.7	50.0	50.0	51.3	53.8
8	HKH 351	53.3	52.7	57.0	54.0	50.0	49.0	52.7	55.3	48.3	56.0	52.0	53.0	52.9	52.6
9	KMH-14-46	53.3	50.3	57.0	52.7	49.3	47.3	51.7	56.3	50.0	57.0	47.7	49.5	52.1	52.0
10	AH-7154	53.0	50.7	55.7	52.7	50.0	46.0	51.3	55.3	50.7	55.3	49.7	49.0	52.0	51.7
11	JH 31816	54.7	54.0	57.3	54.3	49.3	48.3	53.0	56.7	49.7	57.3	52.0	52.0	53.5	53.3
12	JH 31784	53.3	52.3	58.0	55.3	54.0	49.3	53.7	57.7	49.7	57.3	50.0	53.0	53.5	53.6
13	FH 3768	52.0	54.7	55.7	53.3	51.7	49.3	52.8	56.0	49.0	56.7	53.0	51.5	53.2	52.9
14	BAUMC-5	59.0	52.3	58.3	58.0	54.3	53.7	55.9	60.3	50.0	60.7	56.0	56.0	56.6	56.4
15	JH 31783	56.3	53.3	57.3	53.3	50.0	49.3	53.3	55.3	50.0	57.3	51.7	52.0	53.3	52.7
16	KDMH-105	53.7	54.3	57.0	52.7	50.7	48.7	52.8	61.0	48.7	58.0	54.0	53.0	54.9	53.8
17	MH 21	55.0	52.3	58.3	54.7	53.3	49.7	53.9	59.0	49.7	57.7	51.0	55.0	54.5	53.7
18	JH 31780	54.0	54.0	56.0	54.3	53.7	50.3	53.7	52.3	48.3	56.0	53.0	51.5	52.2	53.3
19	HKH 352	53.3	52.7	57.3	53.7	50.7	48.7	52.7	54.3	50.3	57.0	50.0	51.5	52.6	53.3
20	WH-2093	53.3	51.3	54.7	51.0	50.0	46.7	51.2	57.7	49.0	54.0	48.0	49.5	51.6	51.2
21	AH-7204	53.3	50.3	54.3	50.3	48.7	46.0	50.5	57.3	50.3	53.0	47.0	49.0	51.3	51.0
22	WH-2096	53.3	50.3	53.7	50.7	47.7	44.3	50.0	55.0	49.7	54.0	48.3	50.0	51.4	50.7
23	MH 22	57.0	55.3	57.0	54.3	54.0	51.3	54.8	59.7	49.7	59.0	55.0	52.5	55.2	54.3
24	JH 31794	55.0	52.7	57.0	53.0	54.3	49.0	53.5	56.7	50.3	57.0	52.0	52.0	53.6	54.1
25	JH 31801	52.7	50.3	56.0	53.3	50.7	48.7	51.9	53.7	49.3	56.0	55.3	48.0	52.5	52.3
26	IH-1204	51.7	49.0	52.0	48.0	44.3	41.7	47.8	54.0	49.0	51.7	47.0	47.5	49.8	50.2
27	KMH-14-55	53.3	50.0	56.0	50.0	49.7	46.7	50.9	56.3	50.0	54.7	47.0	53.0	52.2	51.2
28	DH-304	55.3	54.0	56.3	54.7	54.0	49.7	54.0	57.7	50.0	56.3	52.7	55.0	54.3	54.8

TABLE No. 5 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% SILKING HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ ZN 5 Mean	OV'L Mean
29	AH-7009R	53.7	52.7	55.3	51.7	49.3	47.3	51.7	54.0	50.0	56.0	53.0	50.0	52.6	52.5
30	AH9002	53.0	52.7	55.7	54.7	53.7	48.7	53.1	54.3	50.7	56.3	51.0	53.0	53.1	53.6
31	IH-0903	52.3	50.7	55.7	51.0	48.3	46.7	50.8	52.7	50.3	54.0	48.0	48.5	50.7	51.2
32	FH 3765	53.7	58.0	56.3	55.7	53.7	50.3	54.6	59.7	49.7	57.7	51.7	54.5	54.6	54.8
33	FH 3771	53.3	53.0	56.3	55.7	50.7	49.0	53.0	54.3	50.3	57.0	49.0	52.0	52.5	53.0
34	DH-305	52.7	49.3	55.0	53.3	49.3	47.3	51.2	58.3	49.0	55.3	48.0	49.5	52.0	51.6
35	BAUM-4	49.7	48.7	52.7	48.0	46.7	42.7	48.1	54.3	48.7	52.0	46.0	47.5	49.7	49.5
	CHECKS														
36	Vivek Hybrid 51(C)	53.3	50.7	56.7	50.3	49.3	46.7	51.2	54.3	50.0	53.7	50.0	51.5	51.9	51.6
37	Vivek Hybrid 45(C)	54.0	51.0	55.0	54.0	47.7	45.3	51.2	54.3	50.3	55.7	50.0	50.0	52.1	52.1
38	PMH5(C)	54.3	51.0	56.3	52.7	50.0	49.3	52.3	56.7	50.0	56.3	53.0	51.0	53.4	52.0
39	BIO605(C)	55.7	54.7	57.7	54.0	50.7	50.7	53.9	54.3	50.0	58.3	52.0	56.5	54.2	54.3
40	DKC 7074(C)	57.3	55.7	56.7	55.3	53.3	49.7	54.7	56.3	50.0	57.3	51.7	52.0	53.5	54.8
	Loc. Mean	**53.8**	**52.1**	**56.1**	**52.8**	**50.6**	**48.0**	**52.2**	**55.8**	**49.7**	**56.0**	**50.6**	**51.2**	**52.7**	**52.7**
	C.D. (5%)	1.79	1.71	1.84	2.37	0.96	0.85	1.37	1.13	1.46	1.37	0.67	4.25	2.03	0.93
	C.V. (%)	2.05	2.02	2.02	2.76	1.17	1.09	2.31	1.24	1.81	1.50	0.81	4.10	3.09	3.24
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00

TABLE No. 5 (Contd.)

		DAYS TO 75% DRY HUSK					NHZ ZN 1					NWPZ ZN 2						NEPZ ZN 3
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	AH-7007	97.7	93.3	84.7	84.3	85.0	89.0	81.7	76.3	91.3	107.7	89.3	79.3	83.0	83.0	80.0	78.3	83.7	81.2
2	FH 3763	96.7	88.0	87.0	86.7	87.0	89.1	79.7	78.7	89.7	108.3	89.1	82.3	84.0	90.0	82.3	81.3	88.0	84.7
3	KH-102	101.0	95.7	87.3	90.3	85.0	91.9	82.3	82.0	92.0	111.0	91.8	88.3	83.0	90.7	85.7	84.3	88.0	86.7
4	IH-0901	98.3	92.3	85.3	86.7	84.3	89.4	82.3	78.7	84.7	109.0	88.7	79.3	82.0	87.0	85.7	81.3	82.7	83.0
5	IH-0702	97.7	95.3	87.0	84.7	82.3	89.4	80.3	78.7	88.0	109.7	89.2	80.0	83.0	85.0	80.0	79.3	79.3	81.1
6	KMH-14-50	100.7	95.0	85.3	84.7	84.7	90.1	81.7	79.7	91.0	109.0	90.3	82.7	84.0	89.3	81.7	81.3	86.7	84.3
7	DMRH 1417	101.0	94.0	87.3	89.7	85.3	91.5	82.3	80.3	93.7	108.3	91.2	90.0	86.0	92.7	87.7	84.3	91.3	88.7
8	HKH 351	98.3	94.0	87.0	86.7	85.3	90.3	81.7	77.7	92.7	107.7	89.9	82.3	83.0	89.0	81.7	76.7	86.7	83.2
9	KMH-14-46	98.0	94.7	85.0	83.7	85.0	89.3	80.3	78.0	91.3	108.3	89.5	82.3	83.0	86.3	81.7	81.3	81.7	82.7
10	AH-7154	102.3	93.7	87.3	89.3	84.3	91.4	81.7	80.3	94.3	109.0	91.3	81.3	83.0	85.0	85.3	80.3	81.3	82.7
11	JH 31816	100.0	94.0	85.7	89.3	85.3	90.9	82.7	80.0	96.3	108.3	91.8	83.0	84.0	87.0	81.7	78.3	84.7	83.1
12	JH 31784	98.3	93.7	88.0	90.3	86.7	91.4	82.3	82.7	91.7	109.7	91.6	88.3	85.0	87.3	81.0	81.3	85.0	84.7
13	FH 3768	99.7	94.0	86.0	86.7	87.3	90.7	79.7	79.0	96.3	109.0	91.0	85.3	82.0	89.3	80.0	79.3	90.3	84.4
14	BAUMC-5	104.3	99.3	88.0	91.3	87.3	94.1	83.3	82.0	87.7	109.7	90.7	89.0	84.0	94.3	89.7	85.3	89.7	88.7
15	JH 31783	99.0	93.0	86.3	88.7	85.3	90.5	80.3	78.7	86.0	108.3	88.3	82.7	83.0	89.0	83.3	80.3	82.7	83.5
16	KDMH-105	104.0	94.7	87.0	90.3	87.3	92.7	82.7	77.3	85.3	109.0	88.6	80.7	83.0	90.7	91.0	78.3	82.3	84.3
17	MH 21	101.7	96.7	87.7	87.7	87.0	92.1	82.3	80.3	90.0	110.3	90.7	81.3	84.0	88.7	84.0	80.3	87.3	84.3
18	JH 31780	100.3	94.3	86.3	86.7	85.7	90.7	83.7	88.3	96.7	109.0	94.4	85.7	84.0	88.3	89.7	80.3	89.7	86.3
19	HKH 352	98.7	94.3	88.0	91.0	85.3	91.5	81.0	76.7	96.7	107.0	90.3	80.7	83.0	88.7	81.0	82.3	83.7	83.2
20	WH-2093	95.7	91.0	88.0	83.0	83.0	88.1	82.3	78.3	96.3	109.0	91.5	79.3	83.0	85.0	83.7	81.3	81.0	82.2
21	AH-7204	96.0	93.0	86.0	86.0	82.7	88.7	81.0	75.0	96.0	109.0	90.3	79.3	83.0	88.0	88.7	81.3	85.3	84.3
22	WH-2096	96.3	89.7	85.0	83.0	85.3	87.9	79.7	81.0	92.3	109.0	90.5	79.3	83.0	86.0	77.7	79.3	83.7	81.5
23	MH 22	103.0	95.3	88.0	87.0	84.7	91.6	82.7	79.3	89.0	109.0	90.0	83.0	84.0	91.0	86.7	84.3	86.3	85.9
24	JH 31794	100.0	94.3	88.3	90.3	85.3	91.7	83.0	80.3	89.7	110.3	90.8	88.0	84.0	88.3	87.0	83.7	89.0	86.7
25	JH 31801	100.7	92.0	86.3	85.7	86.0	90.1	81.0	77.7	91.0	108.3	89.5	83.0	83.0	88.7	81.0	82.3	85.7	83.9
26	IH-1204	100.3	92.0	85.0	87.3	83.7	89.7	82.3	80.3	93.3	111.7	91.9	80.0	82.0	82.3	86.3	76.3	78.7	80.9
27	KMH-14-55	97.3	95.0	85.3	82.7	83.7	88.8	81.7	81.7	91.3	108.3	90.7	80.3	82.0	84.3	87.7	79.7	85.7	83.3
28	DH-304	99.7	96.7	87.7	91.3	86.7	92.4	82.3	82.0	89.7	110.3	91.1	88.0	84.0	92.0	82.0	86.3	87.0	86.6

TABLE No. 5 (Contd.)

		DAYS TO 75% DRY HUSK					NHZ					NWPZ						NEPZ
							ZN 1					ZN 2						ZN 3
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
29	AH-7009R	102.7	95.7	85.3	86.7	86.3	91.3	82.7	81.0	88.0	108.3	90.0	81.3	83.0	88.3	83.3	79.3	88.7	84.0
30	AH9002	103.3	98.3	87.7	87.3	85.0	92.3	83.0	80.3	90.7	107.7	90.4	85.0	82.0	90.7	86.7	77.3	88.3	85.0
31	IH-0903	99.7	94.0	86.3	86.0	82.3	89.7	79.7	80.0	90.7	108.3	89.7	81.0	84.0	85.7	87.3	77.0	85.7	83.4
32	FH 3765	100.7	94.3	87.0	90.7	86.7	91.9	82.3	87.3	93.3	109.7	93.2	89.3	85.0	97.3	-	82.3	90.7	88.9
33	FH 3771	102.7	98.0	87.0	89.7	85.0	92.5	83.3	81.3	91.3	110.3	91.6	88.3	84.0	87.7	-	79.3	87.7	85.4
34	DH-305	95.7	92.7	86.0	87.3	85.3	89.4	81.0	79.7	90.3	107.7	89.7	80.0	83.0	86.0	84.7	77.3	86.3	82.9
35	BAUM-4	96.0	87.7	87.3	84.7	83.7	87.9	79.7	74.7	91.0	108.3	88.4	75.7	82.0	83.0	77.7	75.3	78.0	78.6
	CHECKS																		
36	Vivek Hybrid 51(C)	96.7	86.7	86.7	85.0	83.3	87.7	80.3	76.3	90.7	108.3	88.9	81.0	83.0	89.3	81.3	78.3	83.7	82.8
37	Vivek Hybrid 45(C)	100.0	95.0	88.0	86.7	85.3	91.0	81.7	79.0	89.3	110.3	90.1	80.7	84.0	88.7	82.3	85.3	84.0	84.2
38	PMH5(C)	98.3	92.0	85.3	85.7	85.3	89.3	81.7	78.3	91.3	109.7	90.3	85.0	84.0	87.7	82.3	77.7	87.7	84.1
39	BIO605(C)	101.7	96.0	87.3	89.7	85.3	92.0	82.0	81.3	86.7	110.3	90.1	84.7	83.0	89.3	87.3	79.3	88.7	85.4
40	DKC 7074(C)	102.0	97.0	88.0	90.0	84.3	92.3	83.3	84.7	89.7	112.0	92.4	87.7	85.0	92.0	86.0	83.3	90.0	87.3
	Loc. Mean	**99.7**	**93.9**	**86.7**	**87.4**	**85.1**	**90.5**	**81.7**	**79.9**	**91.2**	**109.1**	**90.5**	**83.1**	**83.4**	**88.3**	**84.0**	**80.5**	**85.7**	**84.2**
	C.D. (5%)	2.66	2.19	0.97	2.36	3.04	2.00	1.87	0.98	2.36	2.42	2.92	3.97	1.63	1.83	3.19	1.84	4.12	2.51
	C.V. (%)	1.64	1.43	0.69	1.66	2.19	1.77	1.41	0.75	1.59	1.37	2.31	2.94	1.20	1.28	2.27	1.41	2.96	2.62
	F (Prob)	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 5 (Contd.)

		DAYS TO 75% DRY HUSK						PZ						CWZ	
								ZN 4						ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	AH-7007	81.3	79.3	93.7	89.0	86.7	85.3	85.9	82.3	77.0	86.0	83.0	79.0	81.5	85.1
2	FH 3763	81.0	81.0	96.3	86.7	90.0	89.0	87.3	87.3	75.7	84.7	82.0	82.5	82.4	86.4
3	KH-102	83.7	82.0	95.0	87.3	91.3	88.7	88.0	88.7	76.3	89.7	82.0	83.0	83.9	88.2
4	IH-0901	80.0	80.0	95.0	90.7	88.3	86.7	86.8	84.7	76.7	88.0	84.0	84.0	83.5	86.1
5	IH-0702	80.3	80.7	93.3	87.3	86.3	83.3	85.2	85.3	77.7	87.3	82.0	79.0	82.3	85.1
6	KMH-14-50	79.7	81.3	95.7	92.0	88.7	83.7	86.8	83.3	78.3	88.7	82.0	82.0	82.9	86.6
7	DMRH 1417	79.7	88.3	95.7	90.7	92.7	88.3	89.2	86.0	76.0	88.7	83.3	80.0	82.8	88.6
8	HKH 351	81.0	84.7	95.7	90.7	90.0	87.3	88.2	84.7	74.3	88.3	83.0	81.0	82.3	86.6
9	KMH-14-46	81.7	80.3	95.7	86.0	88.0	86.7	86.4	86.0	75.7	87.7	83.0	82.0	82.9	85.9
10	AH-7154	80.7	81.3	94.0	91.3	89.0	84.3	86.8	89.3	77.0	89.3	81.0	79.0	83.1	86.7
11	JH 31816	80.7	87.0	97.0	90.3	88.3	87.7	88.5	87.7	76.7	89.3	87.7	77.0	83.7	87.3
12	JH 31784	79.7	84.0	96.7	89.3	93.0	88.3	88.5	92.3	77.3	88.7	83.0	83.0	84.9	87.9
13	FH 3768	78.0	87.3	95.0	93.3	90.7	88.7	88.8	83.3	75.3	87.7	83.0	80.0	81.9	87.2
14	BAUMC-5	86.0	81.7	99.7	91.7	93.3	92.3	90.8	89.7	76.7	89.7	84.0	83.0	84.6	89.7
15	JH 31783	83.7	84.7	96.3	88.7	89.7	87.7	88.4	87.3	77.7	88.7	82.0	83.0	83.7	86.8
16	KDMH-105	81.0	84.3	95.0	87.3	89.7	88.0	87.6	87.3	76.7	90.7	83.0	79.0	83.3	87.1
17	MH 21	83.0	82.3	96.3	92.3	92.3	88.7	89.2	87.7	76.7	89.0	83.0	85.0	84.3	87.9
18	JH 31780	82.0	84.0	94.7	89.3	92.7	89.3	88.7	87.7	76.3	89.3	84.0	81.5	83.8	88.4
19	HKH 352	80.0	82.7	96.0	90.7	90.0	87.3	87.8	85.7	78.3	87.0	83.0	81.0	83.0	86.9
20	WH-2093	79.7	81.3	93.0	86.7	88.7	85.7	85.8	88.3	75.7	86.7	81.0	80.0	82.3	85.6
21	AH-7204	79.7	80.3	92.3	88.7	87.3	84.7	85.5	80.7	77.3	88.3	83.0	78.0	81.5	85.8
22	WH-2096	79.0	80.3	91.3	89.7	86.3	82.0	84.8	84.3	76.0	85.7	81.0	81.0	81.6	84.9
23	MH 22	84.7	85.3	95.7	92.0	93.0	90.3	90.2	89.3	76.7	89.7	85.0	83.0	84.7	88.4
24	JH 31794	82.3	82.7	94.0	88.0	93.3	88.3	88.1	88.3	78.0	89.0	83.0	85.0	84.7	88.2
25	JH 31801	79.0	80.3	93.7	90.7	89.3	87.7	86.8	85.7	76.7	89.3	82.0	80.0	82.7	86.4
26	IH-1204	79.0	79.0	88.7	87.7	85.0	81.3	83.4	86.7	75.0	86.3	82.0	80.0	82.0	85.1
27	KMH-14-55	80.3	80.0	94.3	89.7	89.7	85.7	86.6	91.3	76.3	88.0	82.0	85.5	84.6	86.5
28	DH-304	84.7	84.0	94.7	91.3	93.0	87.7	89.2	88.3	77.3	90.7	84.0	81.0	84.3	88.6

TABLE No. 5 (Contd.)

		DAYS TO 75% DRY HUSK						PZ						CWZ	
								ZN 4						ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
29	AH-7009R	80.0	82.7	95.3	92.0	88.0	86.3	87.4	89.3	77.0	89.3	82.0	80.0	83.5	87.0
30	AH9002	79.3	82.7	96.7	92.7	93.0	87.7	88.7	87.7	77.3	90.0	82.0	82.0	83.8	87.9
31	IH-0903	79.3	80.7	94.3	90.0	86.7	85.3	86.1	85.3	77.0	87.7	83.0	80.5	82.7	86.1
32	FH 3765	81.7	88.0	95.7	92.0	92.7	88.7	89.8	90.3	76.0	89.0	84.0	83.5	84.6	89.5
33	FH 3771	80.0	83.0	95.7	90.3	90.0	88.3	87.9	89.7	74.3	92.0	82.0	84.5	84.5	88.2
34	DH-305	79.3	79.3	94.0	92.0	89.0	86.7	86.7	86.0	74.7	87.3	84.0	82.5	82.9	86.1
35	BAUM-4	77.7	78.7	90.3	87.0	86.0	81.3	83.5	83.7	77.0	83.7	82.0	79.0	81.1	83.5
	CHECKS														
36	Vivek Hybrid 51(C)	79.7	80.7	94.7	89.7	88.0	85.7	86.4	81.3	77.0	88.7	82.0	80.0	81.8	85.3
37	Vivek Hybrid 45(C)	83.0	81.0	94.7	90.7	86.7	83.7	86.6	89.3	76.7	90.3	82.0	81.0	83.9	86.9
38	PMH5(C)	82.3	81.0	93.3	90.7	89.0	88.7	87.5	90.3	76.3	88.0	83.0	80.0	83.5	86.7
39	BIO605(C)	85.0	84.7	97.7	90.7	90.3	89.7	89.7	89.0	76.7	89.3	83.0	85.0	84.6	88.2
40	DKC 7074(C)	85.3	85.7	95.7	91.3	92.3	89.7	90.0	86.7	77.7	91.7	87.7	81.5	85.0	89.2
	Loc. Mean	**81.1**	**82.5**	**94.8**	**90.0**	**89.7**	**86.9**	**87.5**	**87.0**	**76.6**	**88.5**	**82.9**	**81.4**	**83.3**	**87.0**
	C.D. (5%)	2.72	1.91	3.10	2.52	1.55	0.94	1.78	1.37	2.32	1.71	0.52	3.68	2.12	1.05
	C.V. (%)	2.06	1.42	2.01	1.72	1.06	0.67	1.79	0.97	1.86	1.19	0.38	2.23	2.03	2.21
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00

TABLE No. 5 (Contd.)

		PLANT HEIGHT(cm)					NHZ					NWPZ							NEPZ
							ZN 1					ZN 2							ZN 3
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	AH-7007	211.7	190.0	191.0	234.3	123.2	190.0	186.7	190.7	177.0	230.3	196.2	116.3	182.3	169.3	141.0	124.0	152.7	147.6
2	FH 3763	228.3	203.3	201.0	248.3	135.2	203.2	213.3	187.7	187.0	252.3	210.1	135.7	182.7	168.1	171.7	156.0	174.7	164.8
3	KH-102	213.3	206.7	225.7	244.0	136.4	205.2	213.3	183.7	181.7	258.3	209.3	123.0	184.7	162.4	147.3	154.6	188.0	160.0
4	IH-0901	205.0	188.3	185.0	224.3	123.9	185.3	191.7	167.7	188.3	231.3	194.8	112.0	188.7	166.7	168.0	157.4	175.0	161.3
5	IH-0702	210.0	206.7	190.0	246.0	134.1	197.4	215.0	220.3	187.7	240.0	215.8	132.3	180.7	169.1	167.7	152.8	173.7	162.7
6	KMH-14-50	205.0	190.0	188.4	221.0	111.6	183.2	193.3	177.0	181.7	268.7	205.2	121.7	185.0	162.3	136.0	146.8	168.3	153.4
7	DMRH 1417	215.0	211.7	188.7	215.0	126.9	191.4	216.7	203.0	187.0	275.0	220.4	129.7	179.3	171.7	157.7	152.8	197.3	164.7
8	HKH 351	215.0	196.7	198.7	249.7	125.5	197.1	196.7	198.3	188.0	274.7	214.4	128.0	180.0	157.6	167.7	156.3	176.7	161.0
9	KMH-14-46	216.7	200.0	203.3	249.0	128.4	199.5	191.7	219.0	193.7	254.7	214.8	129.3	184.0	160.7	171.0	149.2	172.7	161.2
10	AH-7154	213.3	175.0	191.0	226.3	112.9	183.7	171.7	172.0	188.3	219.7	187.9	110.7	180.3	159.3	149.3	140.4	155.0	149.2
11	JH 31816	220.0	208.3	202.3	249.3	133.4	202.7	215.0	174.0	185.7	267.0	210.4	132.7	183.7	161.9	173.7	168.1	182.0	167.0
12	JH 31784	218.3	203.3	231.3	242.3	129.0	204.9	203.3	194.3	183.7	253.7	208.8	125.0	184.3	171.3	162.7	153.8	174.0	161.9
13	FH 3768	223.3	193.3	191.7	229.3	125.3	192.6	200.0	194.0	181.7	266.0	210.4	124.7	179.3	163.8	152.7	143.1	172.0	155.9
14	BAUMC-5	246.7	246.7	195.0	262.0	140.0	218.1	216.7	213.7	165.3	278.3	218.5	128.7	182.0	175.5	158.3	159.4	196.3	166.7
15	JH 31783	245.0	210.0	238.0	266.0	133.7	218.5	205.0	192.0	165.7	261.3	206.0	126.3	183.3	155.5	172.0	175.1	182.0	165.7
16	KDMH-105	221.7	203.3	210.0	241.0	127.9	200.8	193.3	176.3	183.7	230.7	196.0	124.7	179.3	169.4	146.0	139.3	171.0	155.0
17	MH 21	203.3	191.7	187.3	237.7	123.7	188.7	176.7	172.7	180.7	250.7	195.2	111.3	185.7	155.2	165.3	149.4	157.3	154.0
18	JH 31780	211.7	206.7	218.3	222.0	131.3	198.0	198.3	157.7	166.7	226.3	187.3	116.3	184.3	178.8	155.3	134.2	171.7	156.8
19	HKH 352	196.7	193.3	203.7	228.7	124.9	189.5	190.0	189.7	176.0	260.0	203.9	120.3	183.3	160.3	150.3	141.3	169.7	154.2
20	WH-2093	201.7	166.7	195.0	201.7	131.3	179.3	183.3	176.3	174.3	232.3	191.6	106.3	183.0	165.3	156.0	158.5	158.7	154.6
21	AH-7204	203.3	198.3	205.3	218.0	135.3	192.1	183.3	191.7	181.3	255.7	203.0	105.7	180.0	160.5	154.3	144.0	163.3	151.3
22	WH-2096	196.7	173.3	195.7	211.7	114.3	178.3	181.7	178.0	171.3	245.3	194.1	116.3	182.3	158.3	154.3	133.8	159.7	150.8
23	MH 22	223.3	208.3	231.7	219.7	127.2	202.0	171.7	166.0	173.7	241.0	188.1	119.3	181.3	159.6	148.3	146.8	185.0	156.7
24	JH 31794	226.7	203.3	188.0	231.3	141.2	198.1	198.3	203.3	187.0	258.0	211.7	116.3	185.7	165.1	161.3	161.6	184.7	162.4
25	JH 31801	211.7	183.3	188.7	206.7	123.8	182.8	203.3	172.7	197.3	235.7	202.3	111.3	182.7	163.8	163.7	143.4	165.3	155.0
26	IH-1204	220.0	213.3	187.7	244.0	126.6	198.3	228.3	193.0	174.3	238.3	208.5	126.0	185.3	167.5	156.0	177.4	187.7	166.7
27	KMH-14-55	208.3	195.0	187.3	235.0	128.9	190.9	180.0	207.0	185.7	241.3	203.5	129.0	184.3	164.9	169.3	148.2	172.3	161.3
28	DH-304	221.7	195.0	209.0	220.7	129.6	195.2	198.3	193.3	189.7	264.0	211.3	101.3	183.7	159.8	163.0	125.1	163.0	149.3

TABLE No. 5 (Contd.)

		PLANT HEIGHT(cm)					NHZ					NWPZ						NEPZ
							ZN 1					ZN 2						ZN 3
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
29	AH-7009R	180.0	156.7	187.7	185.0	111.5	164.2	151.7	175.3	182.3	217.0	181.6	114.0	188.0	161.1	152.7	118.4	147.7	147.0
30	AH9002	195.0	176.7	217.7	220.0	111.0	184.1	175.0	166.3	173.7	230.0	186.3	102.7	189.0	162.3	136.0	139.1	156.7	147.6
31	IH-0903	191.7	200.0	184.3	211.0	129.0	183.2	188.3	179.0	182.7	235.7	196.4	110.7	189.0	167.5	142.7	143.4	152.7	151.0
32	FH 3765	228.3	203.3	190.1	225.0	133.7	196.1	208.3	192.0	200.3	261.3	215.5	131.3	190.3	162.3	-	142.6	176.7	160.6
33	FH 3771	191.7	180.0	187.3	221.0	120.9	180.2	180.0	172.0	189.0	214.7	188.9	114.7	186.3	161.3	-	123.8	157.3	148.7
34	DH-305	208.3	183.3	193.0	215.7	122.4	184.5	186.7	183.3	200.3	229.0	199.8	117.0	185.0	159.5	184.3	153.6	169.7	161.5
35	BAUM-4	206.7	181.7	234.3	217.0	128.2	193.6	180.0	183.7	189.7	243.3	199.2	126.7	186.3	160.3	154.3	173.2	175.3	162.7
	CHECKS																		
36	Vivek Hybrid 51(C)	203.3	190.0	207.7	213.3	129.8	188.8	166.7	203.0	184.7	237.3	197.9	111.0	185.7	164.7	151.7	145.1	178.7	156.1
37	Vivek Hybrid 45(C)	195.0	170.0	198.3	207.7	112.9	176.8	176.7	143.3	189.0	205.0	178.5	106.7	188.0	169.6	145.0	129.1	157.3	149.3
38	PMH5(C)	213.3	198.3	202.7	223.0	137.4	194.9	195.0	200.0	192.7	237.7	206.3	119.7	184.7	161.3	169.3	145.9	164.0	157.5
39	BIO605(C)	235.0	223.3	226.7	243.3	121.1	209.9	228.3	211.3	184.7	272.0	224.1	149.0	180.7	158.9	149.3	162.4	189.7	165.0
40	DKC 7074(C)	225.0	216.7	220.7	243.3	131.3	207.4	190.0	188.3	200.7	250.7	207.4	110.0	184.7	160.0	146.0	138.5	172.3	151.9
	Loc. Mean	**212.7**	**196.0**	**202.0**	**228.8**	**126.9**	**193.3**	**193.6**	**186.6**	**183.8**	**246.1**	**202.5**	**119.8**	**184.0**	**163.8**	**157.1**	**147.7**	**171.2**	**157.3**
	C.D. (5%)	15.51	15.06	3.97	8.37	19.44	13.19	22.17	4.25	5.87	14.82	17.80	16.10	5.13	13.38	12.99	22.25	14.63	9.83
	C.V. (%)	4.49	4.73	1.21	2.25	9.43	5.46	7.04	1.40	1.97	3.71	6.28	8.26	1.71	5.03	4.95	9.27	5.26	5.49
	F (Prob)	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00

TABLE No. 5 (Contd.)

		PLANT HEIGHT(cm)						PZ						CWZ	
								ZN 4						ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	AH-7007	204.0	157.7	187.7	174.0	131.8	147.8	167.2	140.0	174.7	151.0	198.9	131.5	159.2	170.0
2	FH 3763	207.3	171.7	219.3	178.3	140.8	146.2	177.3	121.7	158.3	150.7	229.9	159.0	163.9	181.9
3	KH-102	208.0	163.7	208.3	184.3	156.4	181.4	183.7	160.0	168.3	157.3	219.4	152.5	171.5	184.0
4	IH-0901	193.7	153.0	197.7	162.3	134.3	177.9	169.8	155.0	160.0	165.3	214.3	127.5	164.4	173.6
5	IH-0702	194.7	170.0	196.7	175.7	138.0	152.6	171.3	135.0	163.3	156.7	219.0	146.5	164.1	179.8
6	KMH-14-50	192.3	161.7	206.0	188.7	146.2	168.4	177.2	180.0	171.7	188.3	212.3	135.0	177.5	177.2
7	DMRH 1417	135.3	146.7	160.7	160.0	98.4	138.2	139.9	172.3	165.0	164.0	233.9	150.5	177.2	175.1
8	HKH 351	206.3	175.7	200.0	203.3	139.2	171.8	182.7	145.0	166.7	154.7	233.1	141.5	168.2	182.6
9	KMH-14-46	198.3	165.0	200.7	183.7	141.3	179.6	178.1	153.7	148.3	155.0	224.1	134.0	163.0	181.0
10	AH-7154	174.3	150.7	188.3	176.3	130.9	150.3	161.8	128.3	168.3	153.7	197.1	141.5	157.8	166.3
11	JH 31816	204.3	170.3	224.3	197.3	162.2	181.4	190.0	145.0	168.3	179.3	226.3	162.5	176.3	187.6
12	JH 31784	205.3	160.3	209.0	187.7	138.7	176.2	179.5	151.7	173.0	160.0	224.3	155.0	172.8	183.5
13	FH 3768	210.3	157.0	203.0	197.7	133.3	166.3	177.9	133.3	161.7	148.0	229.7	144.0	163.3	177.9
14	BAUMC-5	230.7	180.3	237.0	206.7	151.5	170.7	196.1	161.7	153.3	171.3	240.3	152.5	175.8	193.1
15	JH 31783	216.7	162.3	213.3	202.3	167.0	187.4	191.5	135.0	170.0	182.7	225.8	160.0	174.7	189.8
16	KDMH-105	191.3	167.0	207.7	173.0	148.2	173.8	176.8	135.0	156.7	180.0	218.9	150.0	168.1	177.7
17	MH 21	190.0	151.0	199.7	177.0	138.2	150.8	167.8	142.3	156.7	162.7	214.7	125.0	160.3	171.4
18	JH 31780	180.7	150.0	200.3	171.0	126.6	168.3	166.2	165.0	161.7	145.3	204.8	142.5	163.9	172.9
19	HKH 352	195.0	163.0	196.7	180.0	146.1	172.2	175.5	146.7	155.0	150.3	224.5	141.5	163.6	175.4
20	WH-2093	183.7	153.7	175.0	177.3	136.0	153.2	163.1	118.3	156.7	134.0	207.5	132.5	149.8	166.1
21	AH-7204	200.3	162.0	196.7	181.0	137.7	166.5	174.0	110.0	161.7	146.0	209.1	132.5	151.9	172.5
22	WH-2096	184.3	164.3	176.0	159.7	142.3	146.2	162.1	160.0	166.7	144.7	192.4	131.5	159.0	167.0
23	MH 22	200.7	158.0	210.0	184.0	134.9	143.5	171.8	130.0	176.7	150.7	223.0	140.0	164.1	175.2
24	JH 31794	183.0	154.3	199.3	189.0	136.3	165.6	171.3	118.3	175.0	150.3	215.0	146.5	161.0	178.6
25	JH 31801	184.3	153.7	199.7	182.3	139.5	158.9	169.7	148.3	166.7	157.3	213.8	141.5	165.5	173.1
26	IH-1204	177.0	159.0	197.7	173.3	141.8	162.8	168.6	150.0	165.0	149.3	211.1	136.5	162.4	178.8
27	KMH-14-55	182.0	145.0	197.7	168.3	131.4	153.0	162.9	145.0	166.7	181.0	209.7	124.0	165.3	174.6
28	DH-304	196.0	167.0	212.0	187.3	140.0	161.6	177.3	166.7	170.0	171.0	225.9	130.0	172.7	178.6

TABLE No. 5 (Contd.)

		PLANT HEIGHT(cm)						PZ						CWZ	
								ZN 4						ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
29	AH-7009R	174.3	144.3	171.7	153.3	104.9	148.4	149.5	93.3	165.0	125.7	179.2	112.5	135.1	153.9
30	AH9002	172.7	149.7	185.3	148.0	133.5	141.1	155.1	125.0	163.3	140.0	198.5	133.0	152.0	163.1
31	IH-0903	183.0	158.3	195.3	176.3	131.2	145.5	165.0	145.0	173.3	140.0	214.2	136.5	161.8	169.5
32	FH 3765	216.0	165.3	209.0	191.3	143.0	179.1	184.0	145.0	153.3	147.0	223.0	154.0	164.5	182.9
33	FH 3771	183.3	143.0	190.7	156.0	131.9	153.7	159.8	135.0	184.3	134.3	206.7	138.0	159.7	166.3
34	DH-305	186.7	159.0	192.7	165.0	129.2	157.3	165.0	150.0	163.3	137.0	207.4	136.5	158.8	172.1
35	BAUM-4	180.0	155.3	188.7	177.7	139.3	154.3	165.9	96.7	160.0	157.3	195.9	131.5	148.3	172.2
	CHECKS														
36	Vivek Hybrid 51(C)	190.0	157.0	205.3	174.0	137.5	150.4	169.0	111.7	160.0	162.3	220.0	143.0	159.4	172.5
37	Vivek Hybrid 45(C)	178.3	142.3	182.3	158.3	142.9	136.1	156.7	136.7	165.0	143.7	191.8	129.0	153.2	161.5
38	PMH5(C)	198.3	155.7	194.0	187.0	162.4	135.7	172.2	146.7	178.3	154.0	216.5	147.5	168.6	177.7
39	BIO605(C)	215.0	174.7	222.7	206.0	140.3	188.0	191.1	161.7	163.3	194.7	213.5	139.0	174.4	190.6
40	DKC 7074(C)	185.0	147.0	209.3	166.3	120.7	152.5	163.5	169.0	188.0	154.7	217.9	147.5	175.4	178.3
	Loc. Mean	**192.3**	**158.6**	**199.2**	**178.5**	**138.1**	**160.4**	**171.2**	**141.7**	**165.6**	**156.3**	**214.6**	**140.4**	**163.7**	**175.6**
	C.D. (5%)	12.69	10.73	12.97	21.57	9.24	4.90	9.73	6.27	17.38	14.72	19.62	24.79	15.00	6.06
	C.V. (%)	4.06	4.16	4.01	7.43	4.12	1.88	4.99	2.72	6.46	5.79	5.63	8.73	7.33	6.34
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.09	0.00	0.00

TABLE No. 5 (Contd.)

		EAR HEIGHT(cm)					NHZ ZN 1					NWPZ ZN 2						NEPZ ZN 3
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	AH-7007	103.3	93.3	90.5	108.0	45.1	88.0	93.3	88.0	90.7	84.0	89.0	54.7	86.3	74.5	67.0	43.4	67.3	65.5
2	FH 3763	108.3	80.0	108.3	116.7	57.1	94.1	113.3	108.3	96.3	85.3	100.8	66.0	84.3	64.9	78.3	54.5	79.0	71.2
3	KH-102	106.7	83.3	90.5	117.7	49.7	89.6	120.0	98.0	81.7	96.3	99.0	57.0	85.7	64.9	72.7	48.6	89.3	69.7
4	IH-0901	106.7	96.7	87.2	105.0	51.1	89.3	116.7	94.7	89.3	100.7	100.3	48.0	88.3	59.8	76.0	73.5	92.0	72.9
5	IH-0702	103.3	90.0	88.1	120.0	59.6	92.2	126.7	110.7	93.7	107.0	109.5	67.3	84.7	70.0	82.7	65.7	84.7	75.8
6	KMH-14-50	100.0	86.7	91.3	114.3	51.8	88.8	108.3	91.0	78.7	118.7	99.2	54.0	85.7	62.9	76.3	57.8	82.3	69.9
7	DMRH 1417	101.7	103.3	91.2	113.0	53.4	92.5	115.0	108.0	86.7	123.7	108.3	59.0	77.7	70.8	84.3	56.1	100.0	74.7
8	HKH 351	111.7	100.0	82.7	126.7	59.5	96.1	115.0	123.3	87.7	118.3	111.1	63.3	75.7	65.7	86.0	61.5	91.3	73.9
9	KMH-14-46	113.3	93.3	78.7	127.7	59.1	94.4	115.0	113.0	79.7	95.7	100.8	60.7	87.7	68.7	88.3	57.8	83.3	74.4
10	AH-7154	110.0	78.3	85.5	99.3	39.6	82.6	85.0	83.0	87.3	87.0	85.6	46.7	83.0	61.3	65.3	48.3	70.3	62.5
11	JH 31816	111.7	95.0	88.8	112.0	57.6	93.0	116.7	98.7	97.0	111.7	106.0	63.3	84.7	66.4	78.7	57.1	87.7	73.0
12	JH 31784	116.7	105.0	98.5	116.7	60.7	99.5	108.3	103.0	78.7	108.7	99.7	58.3	83.7	73.3	83.3	59.0	86.7	74.1
13	FH 3768	103.3	81.7	89.0	111.7	47.3	86.6	100.0	79.7	71.0	91.3	85.5	51.3	83.3	64.9	75.0	41.4	70.0	64.3
14	BAUMC-5	141.7	143.3	88.0	139.3	73.8	117.2	128.3	111.7	78.0	128.0	111.5	69.3	83.7	81.1	84.3	76.7	103.3	83.1
15	JH 31783	128.3	96.7	90.0	122.3	56.4	98.7	121.7	103.7	66.7	107.3	99.8	56.3	85.0	63.9	85.0	60.9	86.0	72.9
16	KDMH-105	123.3	110.0	97.8	120.0	57.9	101.8	125.0	104.0	65.7	96.0	97.7	60.3	79.3	65.1	65.0	61.3	96.7	71.3
17	MH 21	106.7	91.7	79.2	119.0	50.5	89.4	100.0	92.7	63.7	87.7	86.0	50.7	87.3	61.5	80.0	51.5	76.7	68.0
18	JH 31780	121.7	103.3	97.7	109.3	61.5	98.7	121.7	99.7	69.0	93.7	96.0	55.7	82.0	72.9	79.3	56.5	86.7	72.2
19	HKH 352	106.7	98.3	90.7	107.7	52.8	91.2	105.0	113.0	64.3	104.7	96.8	59.0	82.7	64.8	72.7	51.0	82.3	68.7
20	WH-2093	90.0	73.3	85.7	100.7	59.4	81.8	98.3	104.0	71.3	97.7	92.8	47.3	83.7	64.9	69.3	63.3	72.0	66.8
21	AH-7204	101.7	86.7	87.8	109.3	55.5	88.2	98.3	87.0	68.0	107.3	90.2	49.0	84.3	64.9	82.3	58.6	72.0	68.5
22	WH-2096	85.0	75.0	78.3	105.3	48.3	78.4	96.7	91.0	62.3	91.7	85.4	53.0	81.7	56.1	66.0	44.7	71.7	62.2
23	MH 22	110.0	111.7	92.0	102.0	55.0	94.1	85.0	100.7	62.3	102.7	87.7	58.0	84.7	61.6	77.0	55.4	98.0	72.4
24	JH 31794	116.7	93.3	84.8	116.0	61.7	94.5	108.3	112.7	75.3	97.0	98.3	50.7	85.3	68.2	80.3	65.7	90.3	73.4
25	JH 31801	106.7	86.7	81.3	106.0	51.4	86.4	116.7	109.3	83.0	96.7	101.4	50.3	84.0	56.6	83.7	57.9	87.3	70.0
26	IH-1204	128.3	101.7	80.3	121.7	66.9	99.8	128.3	111.3	70.0	98.7	102.1	62.7	85.0	67.1	74.0	79.4	101.3	78.2
27	KMH-14-55	116.7	101.7	76.0	122.0	58.1	94.9	113.3	122.3	70.0	104.3	102.5	62.3	81.0	67.4	93.3	56.0	88.3	74.7
28	DH-304	115.0	93.3	89.0	115.7	56.1	93.8	111.7	107.7	58.7	105.3	95.8	46.3	84.7	66.8	81.0	42.2	72.3	65.6

TABLE No. 5 (Contd.)

		EAR HEIGHT(cm)					NHZ					NWPZ						NEPZ
							ZN 1					ZN 2						ZN 3
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	GOSS	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
29	AH-7009R	75.0	66.7	82.0	81.0	39.5	68.8	90.0	94.0	86.7	78.7	87.3	52.3	84.7	61.7	72.7	33.6	64.3	61.6
30	AH9002	100.0	88.3	85.3	120.0	54.1	89.5	100.0	77.3	69.0	96.0	85.6	45.7	86.7	62.8	66.0	47.5	84.3	65.5
31	IH-0903	95.0	111.7	73.7	102.3	52.7	87.1	108.3	102.0	58.3	108.7	94.3	50.0	85.3	67.5	76.0	50.1	75.0	67.3
32	FH 3765	105.0	90.0	80.2	116.7	53.1	89.0	105.0	92.3	61.7	90.3	87.3	54.7	89.3	66.1	-	46.2	76.7	66.6
33	FH 3771	95.0	75.0	83.8	110.7	48.7	82.6	91.7	83.7	55.0	71.7	75.5	50.7	87.0	64.3	-	38.0	74.7	62.9
34	DH-305	95.0	86.7	77.3	101.0	58.3	83.7	98.3	88.7	59.0	102.3	87.1	49.7	83.3	59.2	82.3	55.5	82.7	68.8
35	BAUM-4	106.7	90.0	89.3	106.0	51.0	88.6	95.0	93.3	66.0	92.0	86.6	60.7	86.3	70.3	78.3	64.9	87.7	74.7
	CHECKS																		
36	Vivek Hybrid 51(C)	103.3	95.0	92.1	109.3	60.8	92.1	95.0	107.0	62.0	101.7	91.4	54.0	86.0	66.9	68.7	62.7	95.7	72.3
37	Vivek Hybrid 45(C)	96.7	85.0	85.1	105.3	47.4	83.9	103.3	68.0	86.7	86.3	86.1	53.3	85.7	68.8	75.3	44.3	77.3	67.5
38	PMH5(C)	101.7	96.7	86.7	110.0	59.5	90.9	115.0	109.3	86.7	102.7	103.4	60.3	84.3	65.8	82.7	60.4	77.0	71.8
39	BIO605(C)	115.0	111.7	98.7	120.0	59.1	100.9	128.3	111.3	74.7	110.0	106.1	70.7	84.3	63.6	81.0	64.9	106.7	78.5
40	DKC 7074(C)	126.7	118.3	101.3	125.3	53.8	105.1	115.0	91.3	67.7	116.7	97.7	50.7	86.3	60.1	85.3	57.5	96.3	72.7
	Loc. Mean	**107.8**	**94.2**	**87.6**	**112.8**	**54.9**	**91.5**	**108.4**	**99.7**	**74.5**	**100.1**	**95.7**	**55.8**	**84.4**	**65.7**	**77.8**	**55.8**	**84.2**	**70.5**
	C.D. (5%)	12.33	13.20	4.07	6.27	16.63	9.37	20.89	3.48	2.97	7.69	13.74	10.86	4.33	8.01	7.96	16.24	13.17	7.23
	C.V. (%)	7.04	8.62	2.86	3.42	18.64	8.20	11.85	2.15	2.45	4.73	10.26	11.97	3.16	7.50	6.13	17.91	9.63	9.00
	F (Prob)	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 5 (Contd.)

		EAR HEIGHT(cm)						PZ						CWZ	
								ZN 4						ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	AH-7007	72.3	55.0	83.0	85.3	68.2	74.4	73.1	60.0	76.3	62.0	72.2	65.0	67.1	75.5
2	FH 3763	69.0	68.7	89.3	84.7	71.3	76.8	76.6	55.0	76.3	73.3	80.1	55.0	67.9	80.8
3	KH-102	72.0	64.7	88.0	96.0	79.5	86.5	81.1	78.3	69.7	64.0	81.1	52.5	69.1	80.5
4	IH-0901	77.0	57.3	98.0	85.7	79.1	88.1	80.9	70.0	81.3	66.3	80.4	67.5	73.1	82.2
5	IH-0702	78.7	69.0	90.0	91.7	72.6	76.3	79.7	71.7	71.3	62.7	88.7	75.0	73.9	84.7
6	KMH-14-50	72.7	61.7	92.0	105.3	72.9	83.8	81.4	74.3	80.0	81.0	79.7	55.0	74.0	81.5
7	DMRH 1417	43.0	47.3	72.0	86.3	59.1	74.1	63.6	77.7	71.7	80.0	93.1	70.0	78.5	81.5
8	HKH 351	76.0	72.3	96.0	111.7	72.2	88.7	86.1	73.3	75.0	72.3	97.4	65.0	76.6	87.2
9	KMH-14-46	76.0	63.0	93.7	98.7	75.5	94.2	83.5	65.0	71.7	73.7	90.1	67.5	73.6	84.3
10	AH-7154	62.3	51.7	84.0	84.7	73.3	73.5	71.6	65.0	73.3	65.0	74.4	55.0	66.5	72.8
11	JH 31816	74.7	67.0	98.0	109.0	80.5	90.1	86.5	70.0	81.7	75.0	89.5	72.5	77.7	86.0
12	JH 31784	75.0	61.7	98.3	97.0	71.2	88.4	81.9	58.3	75.0	76.0	83.4	70.0	72.5	84.4
13	FH 3768	70.7	55.3	75.7	87.3	69.3	79.5	73.0	63.3	61.7	60.0	79.5	65.0	65.9	74.2
14	BAUMC-5	101.3	80.3	136.0	133.0	90.1	99.5	106.7	71.7	63.3	90.0	110.1	67.5	80.5	99.0
15	JH 31783	78.3	61.7	97.0	105.7	81.2	97.4	86.9	71.7	75.0	77.3	92.7	72.5	77.8	86.2
16	KDMH-105	81.7	68.7	106.0	101.3	89.9	84.3	88.6	65.0	66.7	95.0	92.2	72.5	78.3	86.6
17	MH 21	65.7	53.7	90.0	98.3	74.3	74.1	76.0	75.0	81.0	89.0	81.0	57.5	76.7	78.4
18	JH 31780	72.3	52.0	96.7	106.7	79.1	84.2	81.8	50.0	65.0	72.3	77.1	62.5	65.4	81.9
19	HKH 352	72.3	64.0	91.0	102.3	75.2	85.3	81.7	71.7	76.3	66.7	85.3	72.5	74.5	81.5
20	WH-2093	66.7	53.7	76.0	85.0	75.2	73.5	71.7	55.0	71.7	60.0	73.7	60.0	64.1	74.3
21	AH-7204	77.0	63.3	90.3	101.0	76.1	82.1	81.6	45.0	76.0	66.0	81.3	57.5	65.2	78.0
22	WH-2096	67.7	63.3	71.7	82.7	66.8	72.5	70.8	68.3	71.3	53.3	71.2	55.0	63.8	71.2
23	MH 22	79.7	58.0	105.3	103.0	78.5	72.4	82.8	65.0	80.0	64.7	84.6	60.0	70.9	81.0
24	JH 31794	64.3	57.0	93.7	106.3	71.8	82.3	79.2	45.0	81.0	64.7	82.5	62.5	67.1	81.4
25	JH 31801	76.0	57.7	97.0	104.7	85.7	79.4	83.4	75.0	76.7	75.7	86.4	72.5	77.2	82.5
26	IH-1204	69.3	57.3	91.0	92.0	76.9	82.5	78.2	65.0	71.7	69.7	81.9	60.0	69.6	84.4
27	KMH-14-55	69.0	52.7	95.0	94.3	72.7	74.3	76.3	65.0	70.0	84.0	78.7	57.5	71.0	82.5
28	DH-304	78.0	71.0	100.3	99.7	82.7	78.3	85.0	70.0	68.3	80.3	82.7	50.0	70.3	81.0

TABLE No. 5 (Contd.)

S.No.	PEDIGREE	EAR HEIGHT(cm) HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ ZN 5 Mean	OV'L Mean
29	AH-7009R	56.3	49.0	75.7	69.3	62.1	77.3	65.0	40.0	65.0	51.0	65.7	52.5	54.8	66.4
30	AH9002	62.3	54.0	87.0	86.7	72.9	73.1	72.7	63.3	68.3	65.0	75.7	62.5	67.0	75.1
31	IH-0903	67.3	60.0	96.3	92.3	71.8	73.0	76.8	65.0	71.3	62.7	77.8	70.0	69.4	77.9
32	FH 3765	61.7	62.7	79.0	94.0	71.5	89.8	76.4	55.0	68.3	52.7	76.9	62.5	63.1	76.0
33	FH 3771	71.0	47.0	84.0	78.0	65.7	73.9	69.9	43.3	74.7	54.0	74.3	60.0	61.3	70.2
34	DH-305	66.0	61.7	85.0	90.7	63.2	73.1	73.3	55.0	71.3	64.7	71.6	62.5	65.0	74.8
35	BAUM-4	62.7	57.7	84.7	78.0	72.1	61.1	69.4	43.3	69.7	64.3	77.3	60.0	62.9	75.7
	CHECKS														
36	Vivek Hybrid 51(C)	83.0	58.3	102.0	99.3	76.7	85.1	84.1	60.0	71.7	84.0	94.4	70.0	76.0	82.5
37	Vivek Hybrid 45(C)	67.7	45.0	80.7	82.7	75.8	72.5	70.7	50.0	70.0	60.7	71.7	60.0	62.5	73.3
38	PMH5(C)	72.3	58.0	87.0	99.3	78.0	65.5	76.7	67.3	75.0	78.0	80.4	65.0	73.1	81.7
39	BIO605(C)	83.3	74.7	109.3	109.0	74.2	93.6	90.7	78.3	76.3	88.3	90.3	67.5	80.2	90.2
40	DKC 7074(C)	78.0	51.7	108.0	103.7	73.8	77.9	82.2	81.7	75.0	75.0	92.0	65.0	77.7	85.9
	Loc. Mean	**71.8**	**59.7**	**91.8**	**95.6**	**74.5**	**80.3**	**78.9**	**63.6**	**72.9**	**70.5**	**82.5**	**63.3**	**70.5**	**80.4**
	C.D. (5%)	9.21	8.48	8.68	16.80	6.47	5.17	6.70	5.78	15.78	12.59	12.46	16.66	8.70	4.12
	C.V. (%)	7.90	8.74	5.82	10.82	5.34	3.96	7.46	5.59	13.32	10.99	9.29	13.01	9.87	9.43
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.23	0.00	0.00

TABLE No. 6 **PERFORMANCE OF MEDIUM MATURITY EXPERIMENTAL HYBRIDS AT BAJAURA, BERTIN, GOSSAIGAON, IMPHAL, KANGRA, POONCH, RAJOURI, UDHAMPUR IN TRIAL No. TR66Z1 (AVT-I MEDIUM-NHZ) DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																NHZ ZN 1		OV'L	
		BAJA	R	BERT	R	GOSS	R	IMPH	R	KANG	R	POON	R	RAJO	R	UDHA	R	MEAN	R	MEAN	R
1	KMH-13-5	5800	7	9613	1	2098	7	7814	4	8364	1	5959	7	8207	1	6408	6	7452	5	7452	5
2	HM15207	10839	3	6412	4	2449	4	10582	1	5550	5	8878	2	8192	2	6923	4	8197	1	8197	1
3	Bio 9681-Filler	9707	5	5886	5	2763	3	10511	2	5472	6	6555	5	6991	6	7746	2	7552	3	7552	3
4	Seed Tech2324-Filler	11656	2	5773	6	2186	6	4588	7	5755	4	7549	3	7760	4	8242	1	7332	6	7332	6
	CHECKS																				
5	Bio 9637(C)	10770	4	6594	3	3239	1	8277	3	6068	3	7230	4	6813	7	6927	3	7526	4	7526	4
6	HM9(C)	7579	6	5070	7	3098	2	6530	6	3482	7	6279	6	8044	3	6028	7	6145	7	6145	7
7	PMH4(C)	12217	1	7198	2	2346	5	6939	5	6096	2	9414	1	7405	5	6615	5	7983	2	7983	2
	Location Mean	**9795**		**6649**		**2597**		**7891**		**5827**		**7409**		**7630**		**6984**		**7455**		**7455**	
	C.D. (5%)	975		603		1832		1285		641		1069		570		571		816		816	
	C.V. (%)	5.54		5.04		**39.26**		9.06		6.12		8.03		4.16		4.55		**-**		-	
	F (Prob)	0		0		0.693		0		0		0		0		0					
	Plot Size	7.2		5.76		9.6		9.6		9.6		9.6		14.4		9.6		-		-	
	AGRONOMY DATA																				
	Sowing Date	30-06		30-06		30-07		22-08		25-06		28-06		20-07		29-06		-		-	
	Harvest Date	28-10		8-10		3-11		10-12		11-10		1-11		14-11		3-10		-		-	
	Irrigation Nos	3		-		1		-		-		-		1		-		-		-	
	Ferilizer Applied N	120		120		120		80		120		90		120		120		-		-	
	Ferilizer Applied P	60		60		60		60		60		60		60		60		-		-	
	Ferilizer Applied K	40		40		60		40		40		40		40		40		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 39.3 %

TABLE No. 6 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Bio 9637(C) BAJA	R	BERT	R	GOSS	R	IMPH	R	KANG	R	POON	R	RAJO	R	UDHA	R	NHZ ZN 1 MEAN	R	OV'L MEAN	R
1	KMH-13-5	-		45.8		-		-		37.8		-		20.5		-		-		-	
2	HM15207	0.6		-		-		27.8		-		22.8		20.2		-		8.9		8.9	
3	Bio 9681-Filler	-		-		-		27		-		-		2.6		11.8		0.4		0.4	
4	Seed Tech2324-Filler	8.2		-		-		-		-		4.4		13.9		19		-		-	
	CHECKS																				
5	Bio 9637(C)	-		-		-		-		-		-		-		-		-		-	
6	HM9(C)	-		-		-		-		-		-		18.1		-		-		-	
7	PMH4(C)	13.4		9.2		-		-		0.5		30.2		8.7		-		6.1		6.1	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM9(C) BAJA	R	BERT	R	GOSS	R	IMPH	R	KANG	R	POON	R	RAJO	R	UDHA	R	NHZ ZN 1 MEAN	R	OV'L MEAN	R
1	KMH-13-5	-		89.6		-		19.7		140.2		-		2		6.3		21.3		21.3	
2	HM15207	43		26.5		-		62.1		59.4		41.4		1.8		14.8		33.4		33.4	
3	Bio 9681-Filler	28.1		16.1		-		61		57.1		4.4		-		28.5		22.9		22.9	
4	Seed Tech2324-Filler	53.8		13.9		-		-		65.2		20.2		-		36.7		19.3		19.3	
	CHECKS																				
5	Bio 9637(C)	42.1		30.1		4.5		26.8		74.3		15.2		-		14.9		22.5		22.5	
6	HM9(C)	-		-		-		-		-		-		-		-		-		-	
7	PMH4(C)	61.2		42		-		6.3		75.1		49.9		-		9.7		29.9		29.9	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH4(C) BAJA	R	BERT	R	GOSS	R	IMPH	R	KANG	R	POON	R	RAJO	R	UDHA	R	NHZ ZN 1 MEAN	R	OV'L MEAN	R
1	KMH-13-5	-		33.5		-		12.6		37.2		-		10.8		-		-		-	
2	HM15207	-		-		4.4		52.5		-		-		10.6		4.7		2.7		2.7	
3	Bio 9681-Filler	-		-		17.8		51.5		-		-		-		17.1		-		-	
4	Seed Tech2324-Filler	-		-		-		-		-		-		4.8		24.6		-		-	
	CHECKS																				
5	Bio 9637(C)	-		-		38.1		19.3		-		-		-		4.7		-		-	
6	HM9(C)	-		-		32.1		-		-		-		8.6		-		-		-	
7	PMH4(C)	-		-		-		-		-		-		-		-		-		-	

TABLE No. 6 (Contd.)

		MOISTURE % AT HARVEST								NHZ ZN 1
S.No.	PEDIGREE	BAJA	BERT	GOSS	IMPH	KANG	POON	RAJO	UDHA	Mean
1	KMH-13-5	18.4	30.7	16.5	24.7	30.4	19.4	19.2	24.1	22.9
2	HM15207	21.5	37.8	17.6	26.3	36.1	21.3	17.8	24.5	25.3
3	Bio 9681-Filler	22.4	33.7	17.0	25.5	35.2	21.3	19.1	24.1	24.8
4	Seed Tech2324-Filler	18.4	36.8	16.8	24.6	38.1	19.8	19.1	24.1	24.7
	CHECKS									
5	Bio 9637(C)	21.1	35.7	16.9	24.2	34.2	22.1	19.8	25.0	24.9
6	HM9(C)	20.5	33.8	16.0	23.6	34.3	19.8	20.1	24.0	24.0
7	PMH4(C)	21.2	34.1	16.3	25.1	37.0	21.3	20.4	24.5	25.0
	Loc. Mean	**20.5**	**34.6**	**16.7**	**24.9**	**35.0**	**20.7**	**19.3**	**24.3**	**24.5**
	C.D. (5%)	0.47	1.40	1.43	2.53	0.86	0.80	1.28	0.68	1.31
	C.V. (%)	1.29	2.28	4.82	5.72	1.38	2.18	3.72	1.56	5.31
	F (Prob)	0.00	0.00	0.32	0.40	0.00	0.00	0.01	0.06	0.01

		GRAIN SHELLING %								NHZ ZN 1
S.No.	PEDIGREE	BAJA	BERT	GOSS	IMPH	KANG	POON	RAJO	UDHA	Mean
1	KMH-13-5	81.1	82.2	69.6	82.8	81.6	80.0	73.6	81.5	79.0
2	HM15207	80.3	78.8	72.2	78.8	76.7	80.0	66.7	81.2	76.8
3	Bio 9681-Filler	78.4	77.0	80.8	79.0	75.5	82.5	66.1	81.6	77.6
4	Seed Tech2324-Filler	82.7	78.6	80.6	79.6	79.1	81.5	74.2	83.6	80.0
	CHECKS									
5	Bio 9637(C)	79.2	79.3	86.6	80.2	76.0	81.5	67.0	83.3	79.1
6	HM9(C)	78.8	76.4	66.7	81.1	76.1	81.5	64.2	82.6	75.9
7	PMH4(C)	84.6	84.1	77.1	79.4	81.1	79.5	71.6	83.2	80.1
	Loc. Mean	**80.7**	**79.5**	**76.2**	**80.1**	**78.0**	**80.9**	**69.1**	**82.4**	**78.4**
	C.D. (5%)	0.00	1.41	12.15	5.04	2.16	2.20	4.17	2.82	3.16
	C.V. (%)	0.00	1.00	8.96	3.53	1.56	1.53	3.39	1.93	3.99
	F (Prob)	0.00	0.00	0.04	0.62	0.00	0.10	0.00	0.41	0.07

TABLE No. 6 (Contd.)

		STAND AT HARVEST ('000/ha)								NHZ
										ZN 1
S.No.	PEDIGREE	BAJA	BERT	GOSS	IMPH	KANG	POON	RAJO	UDHA	Mean
1	KMH-13-5	52.3	75.8	78.5	58.3	79.5	52.1	51.2	72.2	65.0
2	HM15207	55.1	79.9	81.6	57.3	81.3	44.1	50.2	73.3	65.3
3	Bio 9681-Filler	61.6	77.0	80.2	58.3	74.7	46.9	51.2	74.0	65.5
4	Seed Tech2324-Filler	58.8	74.1	77.1	58.0	79.9	50.3	52.1	75.0	65.7
	CHECKS									
5	Bio 9637(C)	56.9	80.4	79.9	58.3	77.8	51.0	51.6	73.3	66.2
6	HM9(C)	54.2	71.8	83.7	58.3	77.4	44.1	54.9	71.5	64.5
7	PMH4(C)	59.7	80.4	78.5	58.3	75.0	57.6	51.6	71.5	66.6
	Loc. Mean	**56.9**	**77.1**	**79.9**	**58.1**	**77.9**	**49.5**	**51.8**	**73.0**	**65.5**
	C.D. (5%)	6.62	3.71	6.97	0.76	3.00	4.97	3.36	2.03	2.88
	C.V. (%)	6.53	2.71	4.90	0.73	2.17	5.65	3.65	1.56	4.35
	F (Prob)	0.10	0.00	0.49	0.08	0.00	0.00	0.18	0.02	0.81

		DAYS TO 50% POLLEN SHED								NHZ
										ZN 1
S.No.	PEDIGREE	BAJA	BERT	GOSS	IMPH	KANG	POON	RAJO	UDHA	Mean
1	KMH-13-5	47.3	46.7	41.7	59.0	46.3	54.0	58.0	49.7	50.3
2	HM15207	54.3	53.0	52.7	58.7	53.0	59.7	61.7	54.0	55.9
3	Bio 9681-Filler	59.7	54.7	53.7	58.3	54.7	61.7	60.0	53.3	57.0
4	Seed Tech2324-Filler	55.7	53.3	54.0	58.3	53.3	60.0	57.7	50.0	55.3
	CHECKS									
5	Bio 9637(C)	58.7	52.7	51.3	58.7	52.7	59.7	60.7	54.0	56.0
6	HM9(C)	54.7	49.7	53.0	56.7	49.7	54.7	55.3	52.0	53.2
7	PMH4(C)	51.7	49.7	50.0	57.7	49.7	52.0	59.0	49.3	52.4
	Loc. Mean	**54.6**	**51.4**	**50.9**	**58.2**	**51.3**	**57.4**	**58.9**	**51.8**	**54.3**
	C.D. (5%)	2.10	1.19	5.37	3.17	1.22	1.78	5.12	0.65	2.08
	C.V. (%)	2.16	1.30	5.92	3.07	1.33	1.74	4.89	0.71	3.79
	F (Prob)	0.00	0.00	0.00	0.73	0.00	0.00	0.22	0.00	0.00

TABLE No. 6 (Contd.)

		DAYS TO 50% SILKING								NHZ
										ZN 1
S.No.	PEDIGREE	BAJA	BERT	GOSS	IMPH	KANG	POON	RAJO	UDHA	Mean
1	KMH-13-5	50.7	49.3	49.0	65.0	49.3	56.3	64.0	53.3	54.6
2	HM15207	56.7	57.0	59.0	64.7	57.0	62.3	63.7	57.7	59.8
3	Bio 9681-Filler	62.3	58.3	61.0	63.7	58.3	65.7	63.3	57.3	61.3
4	Seed Tech2324-Filler	58.0	57.7	60.7	63.3	57.7	63.3	62.3	53.7	59.6
	CHECKS									
5	Bio 9637(C)	61.7	57.7	57.3	63.0	57.7	63.7	64.0	57.3	60.3
6	HM9(C)	56.7	53.3	59.3	62.3	53.3	56.7	59.7	56.0	57.2
7	PMH4(C)	54.3	53.7	56.0	64.7	53.0	55.0	62.0	53.3	56.5
	Loc. Mean	**57.2**	**55.3**	**57.5**	**63.8**	**55.2**	**60.4**	**62.7**	**55.5**	**58.5**
	C.D. (5%)	1.83	1.23	5.65	3.15	1.38	1.69	4.24	0.94	2.28
	C.V. (%)	1.80	1.25	5.53	2.77	1.41	1.57	3.80	0.95	3.87
	F (Prob)	0.00	0.00	0.01	0.49	0.00	0.00	0.34	0.00	0.00

		DAYS TO 75% DRY HUSK								NHZ
										ZN 1
S.No.	PEDIGREE	BAJA	BERT	GOSS	IMPH	KANG	POON	RAJO	UDHA	Mean
1	KMH-13-5	86.7	84.7	74.7	109.0	84.7	108.0	100.8	91.0	92.4
2	HM15207	100.3	92.3	83.3	108.0	92.3	114.0	98.2	93.7	97.8
3	Bio 9681-Filler	99.7	93.7	86.0	108.3	93.7	114.7	98.2	92.3	98.3
4	Seed Tech2324-Filler	98.3	93.0	85.0	109.0	93.0	113.7	99.9	91.7	97.9
	CHECKS									
5	Bio 9637(C)	98.7	93.0	81.0	106.3	93.0	114.0	99.4	93.3	97.3
6	HM9(C)	93.7	88.7	84.7	105.0	88.7	108.3	101.8	93.3	95.5
7	PMH4(C)	90.7	88.3	81.0	109.0	88.3	101.3	98.6	91.7	93.6
	Loc. Mean	**95.4**	**90.5**	**82.2**	**107.8**	**90.5**	**110.6**	**99.5**	**92.4**	**96.1**
	C.D. (5%)	1.46	1.38	6.22	1.63	1.38	4.13	4.29	0.99	2.73
	C.V. (%)	0.86	0.86	4.25	0.85	0.86	2.10	2.43	0.60	2.81
	F (Prob)	0.00	0.00	0.03	0.00	0.00	0.00	0.48	0.00	0.00

TABLE No. 6 (Contd.)

		PLANT HEIGHT(cm)								NHZ
										ZN 1
S.No.	PEDIGREE	BAJA	BERT	GOSS	IMPH	KANG	POON	RAJO	UDHA	Mean
1	KMH-13-5	225.0	249.0	162.0	291.8	241.0	250.0	200.1	208.7	228.4
2	HM15207	238.3	241.7	159.2	301.6	246.0	273.5	185.0	224.3	233.7
3	Bio 9681-Filler	225.0	241.0	168.3	296.3	258.3	262.5	193.1	246.7	236.4
4	Seed Tech2324-Filler	235.0	245.0	156.0	296.3	236.3	258.7	207.1	208.3	230.3
	CHECKS									
5	Bio 9637(C)	245.0	266.0	155.4	299.4	262.3	259.5	195.1	230.0	239.1
6	HM9(C)	213.3	197.3	177.3	287.8	216.7	224.3	194.3	225.7	217.1
7	PMH4(C)	190.0	221.0	161.9	278.1	232.3	230.2	198.5	214.3	215.8
	Loc. Mean	**224.5**	**237.3**	**162.9**	**293.0**	**241.9**	**251.2**	**196.2**	**222.6**	**228.7**
	C.D. (5%)	24.30	8.93	22.67	13.47	9.32	23.90	21.35	9.05	12.55
	C.V. (%)	6.08	2.12	7.82	2.58	2.17	5.35	6.12	2.29	5.44
	F (Prob)	0.01	0.00	0.42	0.03	0.00	0.01	0.49	0.00	0.00

		EAR HEIGHT(cm)								NHZ
										ZN 1
S.No.	PEDIGREE	BAJA	BERT	GOSS	IMPH	KANG	POON	RAJO	UDHA	Mean
1	KMH-13-5	126.7	130.7	81.1	92.6	132.3	104.0	89.8	88.7	105.7
2	HM15207	120.0	149.0	75.4	93.8	130.0	108.1	102.4	91.0	108.7
3	Bio 9681-Filler	133.3	125.0	77.3	94.2	142.7	116.0	100.2	116.0	113.1
4	Seed Tech2324-Filler	135.0	127.3	78.2	94.8	120.0	119.8	97.3	94.0	108.3
	CHECKS									
5	Bio 9637(C)	145.0	142.3	78.5	92.9	142.0	113.3	97.5	104.7	114.5
6	HM9(C)	113.3	98.3	87.9	93.1	117.7	85.0	97.6	93.0	98.2
7	PMH4(C)	103.3	115.3	76.5	93.6	121.7	88.3	95.9	96.3	98.9
	Loc. Mean	**125.2**	**126.9**	**79.3**	**93.6**	**129.5**	**104.9**	**97.2**	**97.7**	**106.8**
	C.D. (5%)	16.12	6.86	15.78	3.22	4.90	19.78	11.90	6.43	9.13
	C.V. (%)	7.24	3.04	11.19	1.94	2.13	10.60	6.88	3.70	8.47
	F (Prob)	0.00	0.00	0.67	0.76	0.00	0.01	0.45	0.00	0.00

TABLE No. 7 **PERFORMANCE OF EARLY MATURITY EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, BERTIN, GOSSAIGAON, KANGRA, POONCH, RAJOURI, IMPHAL, UDHAMPUR IN TRIAL No. TR67Z1 (AVT-I EARLY-NHZ) DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																NHZ ZN 1 MEAN	R	OV'L MEAN	R
		ALMO	R	BAJA	R	BERT	R	GOSS	R	KANG	R	POON	R	RAJO	R	UDHA	R				
1	KMH-13-15	6131	5	6288	5	8035	1	2984	5	7311	1	4826	6	8396	1	6693	4	6811	5	6811	5
2	FH 3754	8159	3	12524	2	6662	2	2984	4	4976	6	6820	5	7840	3	6800	3	7683	3	7683	3
3	JH 31785	6947	4	7356	4	6452	3	3585	1	6531	2	7545	3	6472	5	6678	5	6855	4	6855	4
4	DMRH 1305	9556	1	9681	3	5768	5	2432	7	5760	4	8408	2	8153	2	7549	1	7840	1	7840	1
5	Seed Tech 2324 (Filler)	8680	2	13479	1	5606	6	3030	3	5324	5	8597	1	5829	6	6608	6	7732	2	7732	2
	CHECKS																				
6	PMH-5(C)	5241	6	5609	6	6331	4	3112	2	6244	3	6990	4	6669	4	6413	7	6214	6	6214	6
7	Prakash(C)	3518	7	4552	7	3094	7	2511	6	1847	7	4641	7	4858	7	7539	2	4293	7	4293	7
	Location Mean	**6891**		**8498**		**5992**		**2948**		**5427**		**6832**		**6888**		**6897**		**6775**		**6775**	
	C.D. (5%)	1198		610		770		2098		475		1512		473		611		807		807	
	C.V. (%)	9.68		3.99		7.15		**39.6**		4.87		12.31		3.82		4.93		**-**		-	
	F (Prob)	0		0		0		0.854		0		0		0		0.004					
	Plot Size	7.2		6		4.8		9.6		9.6		9.6		14.4		9.6		-		-	
	AGRONOMY DATA																				
	Sowing Date	4-07		30-06		30-06		30-07		25-06		28-06		20-07		29-06		-		-	
	Harvest Date	25-10		28-10		8-10		3-11		4-10		20-10		5-11		3-10		-		-	
	Irrigation Nos	-		2		-		1		-		-		1		-		-		-	
	Ferilizer Applied N	90		150		120		120		120		90		120		120		-		-	
	Ferilizer Applied P	60		60		60		60		60		60		60		60		-		-	
	Ferilizer Applied K	40		40		40		60		40		40		40		40		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : GOSS 39.6 %

Location Imphal: Rejected due to low trial mean yield (1696 kg/ha) in comparison to state average yield

TABLE No. 7 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-5(C) ALMO	R	BAJA	R	BERT	R	GOSS	R	KANG	R	POON	R	RAJO	R	UDHA	R	NHZ ZN 1 MEAN	R	OV'L MEAN	R
1	KMH-13-15	17		12.1		26.9		-		17.1		-		25.9		4.4		9.6		9.6	
2	FH 3754	55.7		123.3		5.2		-		-		-		17.6		6		23.6		23.6	
3	JH 31785	32.5		31.2		1.9		15.2		4.6		7.9		-		4.1		10.3		10.3	
4	DMRH 1305	82.3		72.6		-		-		-		20.3		22.3		17.7		26.2		26.2	
5	Seed Tech 2324 (Filler)	65.6		140.3		-		-		-		23		-		3		24.4		24.4	
	CHECKS																				
6	PMH-5(C)	-		-		-		-		-		-		-		-		-		-	
7	Prakash(C)	-		-		-		-		-		-		-		17.6		-		-	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Prakash(C) ALMO	R	BAJA	R	BERT	R	GOSS	R	KANG	R	POON	R	RAJO	R	UDHA	R	NHZ ZN 1 MEAN	R	OV'L MEAN	R
1	KMH-13-15	74.3		38.1		159.7		18.8		295.9		4		72.8		-		58.7		58.7	
2	FH 3754	131.9		175.1		115.3		18.8		169.5		46.9		61.4		-		79		79	
3	JH 31785	97.5		61.6		108.5		42.8		253.6		62.6		33.2		-		59.7		59.7	
4	DMRH 1305	171.6		112.7		86.4		-		211.9		81.2		67.8		0.1		82.6		82.6	
5	Seed Tech 2324 (Filler)	146.7		196.1		81.2		20.7		188.3		85.2		20		-		80.1		80.1	
	CHECKS																				
6	PMH-5(C)	49		23.2		104.6		24		238.1		50.6		37.3		-		44.8		44.8	
7	Prakash(C)	-		-		-		-		-		-		-		-		-		-	

TABLE No. 7 (Contd.)

		MOISTURE % AT HARVEST								NHZ
										ZN 1
S.No.	PEDIGREE	ALMO	BAJA	BERT	GOSS	KANG	POON	RAJO	UDHA	Mean
1	KMH-13-15	21.0	18.5	28.4	17.0	38.0	21.3	20.0	25.1	23.6
2	FH 3754	19.1	18.2	27.9	17.4	33.9	20.0	23.1	24.5	23.0
3	JH 31785	22.2	19.2	26.4	18.3	33.9	20.1	24.8	24.7	23.7
4	DMRH 1305	19.1	20.2	34.1	16.5	32.2	21.3	23.5	24.1	23.9
5	Seed Tech 2324 (Filler)	24.8	20.8	34.0	17.7	37.0	21.5	23.7	24.5	25.5
	CHECKS									
6	PMH-5(C)	20.4	17.9	32.0	17.1	32.6	20.0	21.0	24.4	23.2
7	Prakash(C)	16.3	16.4	34.3	17.7	34.2	21.5	21.2	24.8	23.3
	Loc. Mean	**20.4**	**18.7**	**31.0**	**17.4**	**34.5**	**20.8**	**22.4**	**24.6**	**23.7**
	C.D. (5%)	2.52	0.98	1.67	1.58	0.68	0.83	3.13	0.70	1.86
	C.V. (%)	6.92	2.94	3.03	5.10	1.11	2.24	7.85	1.59	7.77
	F (Prob)	0.00	0.00	0.00	0.33	0.00	0.00	0.05	0.17	0.16

		GRAIN SHELLING %								NHZ
										ZN 1
S.No.	PEDIGREE	ALMO	BAJA	BERT	GOSS	KANG	POON	RAJO	UDHA	Mean
1	KMH-13-15	83.9	82.1	81.1	80.0	82.9	82.5	81.1	82.5	82.0
2	FH 3754	84.7	81.8	81.9	81.8	81.3	80.0	75.7	83.5	81.3
3	JH 31785	86.8	80.7	83.3	77.9	83.3	80.5	78.1	84.8	81.9
4	DMRH 1305	84.4	86.7	82.7	82.1	82.2	82.5	79.7	84.1	83.0
5	Seed Tech 2324 (Filler)	83.5	81.6	78.6	81.8	79.5	82.5	72.6	83.5	80.5
	CHECKS									
6	PMH-5(C)	85.2	71.2	81.5	82.0	80.1	83.5	81.1	81.6	80.8
7	Prakash(C)	83.9	79.3	82.1	81.4	83.4	81.0	72.2	83.0	80.8
	Loc. Mean	**84.6**	**80.5**	**81.6**	**81.0**	**81.8**	**81.8**	**77.2**	**83.3**	**81.5**
	C.D. (5%)	1.43	0.00	1.36	6.43	1.34	2.45	6.21	0.86	2.43
	C.V. (%)	0.95	0.00	0.94	4.46	0.92	1.68	4.52	0.58	2.96
	F (Prob)	0.01	0.00	0.00	0.76	0.00	0.07	0.03	0.00	0.36

TABLE No. 7 (Contd.)

		STAND AT HARVEST ('000/ha)								NHZ
										ZN 1
S.No.	PEDIGREE	ALMO	BAJA	BERT	GOSS	KANG	POON	RAJO	UDHA	Mean
1	KMH-13-15	63.9	75.0	67.4	80.2	74.7	52.8	53.0	70.8	67.2
2	FH 3754	66.2	73.9	70.1	79.9	76.0	53.8	56.5	70.5	68.4
3	JH 31785	64.8	73.3	77.1	83.3	79.9	59.0	54.2	64.6	69.5
4	DMRH 1305	65.3	67.8	68.8	76.7	78.5	51.7	54.2	74.3	67.2
5	Seed Tech 2324 (Filler)	65.7	66.7	69.4	80.6	74.3	51.4	48.1	68.8	65.6
	CHECKS									
6	PMH-5(C)	63.9	83.3	78.5	80.2	73.3	47.6	50.0	70.5	68.4
7	Prakash(C)	62.0	63.3	66.7	78.5	77.4	44.1	50.5	74.7	64.6
	Loc. Mean	**64.6**	**71.9**	**71.1**	**79.9**	**76.3**	**51.5**	**52.3**	**70.6**	**67.3**
	C.D. (5%)	3.87	4.68	4.29	8.08	2.90	4.42	4.83	8.49	3.77
	C.V. (%)	3.37	3.66	3.39	5.68	2.13	4.83	5.19	6.76	5.55
	F (Prob)	0.34	0.00	0.00	0.73	0.00	0.00	0.03	0.25	0.16

		DAYS TO 50% POLLEN SHED								NHZ
										ZN 1
S.No.	PEDIGREE	ALMO	BAJA	BERT	GOSS	KANG	POON	RAJO	UDHA	Mean
1	KMH-13-15	54.7	52.3	45.3	42.3	45.3	52.7	48.3	50.0	48.9
2	FH 3754	51.3	49.0	46.7	41.7	46.7	50.3	50.0	54.0	48.7
3	JH 31785	55.0	52.0	48.0	43.3	48.0	53.3	50.7	49.7	50.0
4	DMRH 1305	52.7	49.7	47.0	42.7	47.0	51.3	49.0	52.0	48.9
5	Seed Tech 2324 (Filler)	60.0	56.0	53.7	49.0	53.7	58.0	49.7	51.3	53.9
	CHECKS									
6	PMH-5(C)	52.7	51.7	49.7	41.0	46.7	50.0	51.0	49.3	49.0
7	Prakash(C)	55.3	53.3	49.3	46.3	49.3	54.7	53.7	53.0	51.9
	Loc. Mean	**54.5**	**52.0**	**48.5**	**43.8**	**48.1**	**52.9**	**50.3**	**51.3**	**50.2**
	C.D. (5%)	1.27	1.61	1.33	3.31	1.38	2.84	3.64	1.19	1.66
	C.V. (%)	1.31	1.74	1.54	4.25	1.61	3.02	4.07	1.30	3.28
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00

TABLE No. 7 (Contd.)

		DAYS TO 50% SILKING								NHZ
										ZN 1
S.No.	PEDIGREE	ALMO	BAJA	BERT	GOSS	KANG	POON	RAJO	UDHA	Mean
1	KMH-13-15	55.3	54.3	47.3	48.3	47.3	56.0	50.3	53.7	51.6
2	FH 3754	52.0	51.0	50.3	47.3	51.0	52.7	53.0	58.3	52.0
3	JH 31785	56.7	54.0	51.0	49.7	51.0	56.0	54.0	53.7	53.3
4	DMRH 1305	53.3	51.7	51.0	49.7	51.0	54.0	51.7	56.3	52.3
5	Seed Tech 2324 (Filler)	60.7	58.0	56.7	55.7	56.7	60.0	52.7	55.0	56.9
	CHECKS									
6	PMH-5(C)	53.3	53.7	53.3	47.0	50.7	53.3	53.0	53.7	52.3
7	Prakash(C)	56.0	55.3	52.3	52.7	53.3	57.3	56.7	57.3	55.1
	Loc. Mean	**55.3**	**54.0**	**51.7**	**50.0**	**51.6**	**55.6**	**53.0**	**55.4**	**53.3**
	C.D. (5%)	1.35	1.61	1.34	4.32	1.54	2.61	3.82	0.99	1.83
	C.V. (%)	1.38	1.67	1.45	4.85	1.67	2.64	4.05	1.00	3.40
	F (Prob)	0.00	0.00	0.00	0.01	0.00	0.00	0.08	0.00	0.00

		DAYS TO 75% DRY HUSK								NHZ
										ZN 1
S.No.	PEDIGREE	ALMO	BAJA	BERT	GOSS	KANG	POON	RAJO	UDHA	Mean
1	KMH-13-15	92.7	87.7	80.7	75.0	80.7	98.3	96.0	91.3	87.8
2	FH 3754	96.0	90.7	83.3	73.3	83.3	101.0	92.0	91.7	88.9
3	JH 31785	92.7	86.3	84.3	75.0	84.3	99.7	98.0	90.3	88.8
4	DMRH 1305	95.0	88.7	84.3	76.0	84.3	102.0	94.0	91.3	89.5
5	Seed Tech 2324 (Filler)	103.7	96.7	91.0	77.7	90.0	110.0	96.7	91.3	94.6
	CHECKS									
6	PMH-5(C)	90.7	86.7	84.0	72.7	84.0	100.0	94.0	90.3	87.8
7	Prakash(C)	90.0	87.7	85.3	77.0	85.3	91.7	99.7	91.7	88.5
	Loc. Mean	**94.4**	**89.2**	**84.7**	**75.2**	**84.6**	**100.4**	**95.8**	**91.1**	**89.4**
	C.D. (5%)	1.50	2.23	1.39	3.30	1.01	2.87	5.90	1.11	2.61
	C.V. (%)	0.90	1.41	0.92	2.47	0.67	1.61	3.46	0.68	2.89
	F (Prob)	0.00	0.00	0.00	0.06	0.00	0.00	0.16	0.08	0.00

TABLE No. 7 (Contd.)

		PLANT HEIGHT(cm)								NHZ
										ZN 1
S.No.	PEDIGREE	ALMO	BAJA	BERT	GOSS	KANG	POON	RAJO	UDHA	Mean
1	KMH-13-15	266.7	216.7	251.0	171.3	245.3	257.1	195.9	231.7	229.5
2	FH 3754	213.3	185.0	216.0	160.4	213.0	204.3	190.0	196.0	197.3
3	JH 31785	233.3	203.3	225.7	178.6	230.7	248.7	190.5	230.7	217.7
4	DMRH 1305	198.3	163.3	199.7	161.3	204.3	208.9	193.8	224.3	194.2
5	Seed Tech 2324 (Filler)	231.7	215.0	246.0	187.9	220.0	256.8	187.4	203.7	218.6
	CHECKS									
6	PMH-5(C)	238.3	218.3	231.7	169.5	240.3	247.3	191.3	195.0	216.5
7	Prakash(C)	196.7	185.0	200.3	139.9	205.0	147.3	199.1	191.3	183.1
	Loc. Mean	**225.5**	**198.1**	**224.3**	**167.0**	**222.7**	**224.3**	**192.6**	**210.4**	**208.1**
	C.D. (5%)	10.81	23.77	9.38	24.82	6.85	14.79	14.04	5.46	15.85
	C.V. (%)	2.69	6.75	2.35	8.35	1.73	3.71	4.10	1.46	7.55
	F (Prob)	0.00	0.00	0.00	0.03	0.00	0.00	0.62	0.00	0.00

		EAR HEIGHT(cm)								NHZ
										ZN 1
S.No.	PEDIGREE	ALMO	BAJA	BERT	GOSS	KANG	POON	RAJO	UDHA	Mean
1	KMH-13-15	140.0	113.3	142.3	80.3	131.7	111.3	91.8	107.3	114.8
2	FH 3754	91.7	96.7	108.7	72.7	106.7	84.3	92.4	81.2	91.8
3	JH 31785	123.3	116.7	124.3	94.5	115.3	112.2	91.5	101.3	109.9
4	DMRH 1305	86.7	78.3	99.3	75.7	112.3	78.3	91.2	95.0	89.6
5	Seed Tech 2324 (Filler)	133.3	123.3	130.3	94.3	120.7	117.0	95.0	82.7	112.1
	CHECKS									
6	PMH-5(C)	118.3	111.7	114.0	79.7	121.0	91.7	92.9	86.3	102.0
7	Prakash(C)	101.7	103.3	97.3	64.3	106.0	54.1	94.8	83.5	88.1
	Loc. Mean	**113.6**	**106.2**	**116.6**	**80.2**	**116.2**	**92.7**	**92.8**	**91.0**	**101.2**
	C.D. (5%)	10.54	32.13	7.74	16.90	4.83	14.29	8.21	5.50	10.27
	C.V. (%)	5.22	17.01	3.73	11.84	2.33	8.67	4.97	3.39	10.06
	F (Prob)	0.00	0.13	0.00	0.02	0.00	0.00	0.90	0.00	0.00

TABLE No. 8 **PERFORMANCE OF LATE MATURITY EXPERIMENTAL HYBRIDS AT ALIGARH, GURDASPUR, KANPUR, KARNAL, LUDHIANA, PANTNAGAR IN TRIAL No. TR65Z2 (AVT-I LATE-NWPZ) DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												NWPZ ZN 2		OV'L	
		ALIG	R	GURD	R	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	MEAN	R
1	KMH-2852	8741	5	7090	9	7534	5	7325	7	9839	1	8836	8	8228	6	8228	6
2	PM15103L	7292	7	10743	2	6179	8	7880	4	6779	7	9711	3	8097	7	8097	7
3	PM15104L	6481	9	10798	1	5887	9	8494	1	8210	2	9812	1	8280	5	8280	5
4	C.P 802	9272	4	9310	6	6795	6	8241	3	7386	3	9730	2	8456	3	8456	3
5	BL 103	9698	3	9657	5	7878	3	8436	2	6623	9	9148	6	8573	2	8573	2
6	SMH-3902	10000	2	10237	3	8439	2	7839	5	7169	5	9400	5	8847	1	8847	1
	CHECKS																
7	PMH 1 (C)	10415	1	9907	4	8611	1	7234	8	7359	4	7018	9	8424	4	8424	4
8	Seed tech 2324(C)	8638	6	7355	8	7564	4	7504	6	6746	8	8887	7	7782	8	7782	8
9	Bio-9681(C)	7004	8	8269	7	6209	7	6704	9	6878	6	9465	4	7422	9	7422	9
	Location Mean	**8616**		**9263**		**7233**		**7740**		**7443**		**9112**		**8234**		**8234**	
	C.D. (5%)	721		2840		389		640		2217		1657		1411		1411	
	C.V. (%)	4.81		17.62		3.09		4.75		17.11		10.45		-		-	
	F (Prob)	0		0.066		0		0		0.08		0.078					
	Plot Size	9.6		10.4		9.6		12		9.6		9		-		-	
	AGRONOMY DATA																
	Sowing Date	27-06		7-08		23-07		26-06		25-06		29-06		-		-	
	Harvest Date	27-09		24-10		17-11		28-09		7-10		18-10		-		-	
	Irrigation Nos	2		1		2		6		7		-		-		-	
	Ferilizer Applied N	120		50		120		150		50		120		-		-	
	Ferilizer Applied P	60		24		60		60		24		60		-		-	
	Ferilizer Applied K	50		12		50		60		12		40		-		-	

TABLE No. 8 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 1 (C) ALIG	R	GURD	R	KANP	R	KARN	R	LUDH	R	PANT	R	NWPZ ZN 2 MEAN	R	OV'L MEAN	R
1	KMH-2852	-		-		-		1.2		33.7		25.9		-		-	
2	PM15103L	-		8.4		-		8.9		-		38.4		-		-	
3	PM15104L	-		9		-		17.4		11.6		39.8		-		-	
4	C.P 802	-		-		-		13.9		0.4		38.6		0.4		0.4	
5	BL 103	-		-		-		16.6		-		30.4		1.8		1.8	
6	SMH-3902	-		3.3		-		8.4		-		33.9		5		5	
	CHECKS																
7	PMH 1 (C)	-		-		-		-		-		-		-		-	
8	Seed tech 2324(C)	-		-		-		3.7		-		26.6		-		-	
9	Bio-9681(C)	-		-		-		-		-		34.9		-		-	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seed tech 2324(C) ALIG	R	GURD	R	KANP	R	KARN	R	LUDH	R	PANT	R	NWPZ ZN 2 MEAN	R	OV'L MEAN	R
1	KMH-2852	1.2		-		-		-		45.9		-		5.7		5.7	
2	PM15103L	-		46.1		-		5		0.5		9.3		4		4	
3	PM15104L	-		46.8		-		13.2		21.7		10.4		6.4		6.4	
4	C.P 802	7.3		26.6		-		9.8		9.5		9.5		8.7		8.7	
5	BL 103	12.3		31.3		4.1		12.4		-		2.9		10.2		10.2	
6	SMH-3902	15.8		39.2		11.6		4.5		6.3		5.8		13.7		13.7	
	CHECKS																
7	PMH 1 (C)	20.6		34.7		13.8		-		9.1		-		8.2		8.2	
8	Seed tech 2324(C)	-		-		-		-		-		-		-		-	
9	Bio-9681(C)	-		12.4		-		-		2		6.5		-		-	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Bio-9681(C) ALIG	R	GURD	R	KANP	R	KARN	R	LUDH	R	PANT	R	NWPZ ZN 2 MEAN	R	OV'L MEAN	R
1	KMH-2852	24.8		-		21.4		9.3		43		-		10.9		10.9	
2	PM15103L	4.1		29.9		-		17.6		-		2.6		9.1		9.1	
3	PM15104L	-		30.6		-		26.7		19.4		3.7		11.6		11.6	
4	C.P 802	32.4		12.6		9.4		22.9		7.4		2.8		13.9		13.9	
5	BL 103	38.5		16.8		26.9		25.8		-		-		15.5		15.5	
6	SMH-3902	42.8		23.8		35.9		16.9		4.2		-		19.2		19.2	
	CHECKS																
7	PMH 1 (C)	48.7		19.8		38.7		7.9		7		-		13.5		13.5	
8	Seed tech 2324(C)	23.3		-		21.8		11.9		-		-		4.9		4.9	
9	Bio-9681(C)	-		-		-		-		-		-		-		-	

TABLE No. 8 (Contd.)

		MOISTURE % AT HARVEST						NWPZ
								ZN 2
S.No.	PEDIGREE	ALIG	GURD	KANP	KARN	LUDH	PANT	Mean
1	KMH-2852	16.7	22.0	15.3	25.4	21.1	28.3	21.5
2	PM15103L	17.7	21.8	14.3	23.1	20.1	28.2	20.9
3	PM15104L	16.6	21.5	15.3	25.4	19.1	23.5	20.2
4	C.P 802	16.8	21.5	14.3	23.8	20.0	27.0	20.6
5	BL 103	17.1	20.0	16.3	23.9	17.4	28.1	20.5
6	SMH-3902	17.3	21.5	17.3	25.9	18.6	26.1	21.1
	CHECKS							
7	PMH 1 (C)	17.9	21.5	17.7	24.2	19.0	27.4	21.3
8	Seed tech 2324(C)	16.3	21.8	16.0	24.6	19.7	28.2	21.1
9	Bio-9681(C)	15.5	21.0	14.3	24.2	21.6	28.0	20.8
	Loc. Mean	**16.9**	**21.4**	**15.7**	**24.5**	**19.6**	**27.2**	**20.9**
	C.D. (5%)	1.52	0.56	1.04	0.35	0.67	1.03	1.33
	C.V. (%)	5.20	1.52	3.84	0.83	1.97	2.18	5.44
	F (Prob)	0.11	0.00	0.00	0.00	0.00	0.00	0.65

		GRAIN SHELLING %						NWPZ
								ZN 2
S.No.	PEDIGREE	ALIG	GURD	KANP	KARN	LUDH	PANT	Mean
1	KMH-2852	77.9	81.1	74.3	80.4	83.3	87.5	80.8
2	PM15103L	77.2	82.1	72.7	79.5	84.8	84.1	80.1
3	PM15104L	74.2	76.2	74.3	82.1	82.8	82.2	78.6
4	C.P 802	79.0	82.2	75.0	81.1	81.1	87.1	80.9
5	BL 103	76.1	82.5	75.3	81.7	82.5	87.3	80.9
6	SMH-3902	77.9	80.0	76.7	79.4	82.4	83.7	80.0
	CHECKS							
7	PMH 1 (C)	76.4	79.6	72.3	78.8	82.2	81.9	78.5
8	Seed tech 2324(C)	76.9	80.5	76.0	80.4	82.7	86.0	80.4
9	Bio-9681(C)	74.7	78.9	73.3	76.9	81.1	81.1	77.7
	Loc. Mean	**76.7**	**80.3**	**74.4**	**80.0**	**82.5**	**84.5**	**79.8**
	C.D. (5%)	1.43	1.99	1.26	0.29	3.65	1.28	1.66
	C.V. (%)	1.08	1.43	0.98	0.21	2.55	0.88	1.79
	F (Prob)	0.00	0.00	0.00	0.00	0.58	0.00	0.00

TABLE No. 8 (Contd.)

		STAND AT HARVEST ('000/ha)						NWPZ
								ZN 2
S.No.	PEDIGREE	ALIG	GURD	KANP	KARN	LUDH	PANT	Mean
1	KMH-2852	80.9	44.6	79.5	63.3	69.8	61.5	66.6
2	PM15103L	79.9	57.7	80.9	62.8	81.3	59.6	70.4
3	PM15104L	79.9	61.9	80.6	63.9	79.2	62.2	71.3
4	C.P 802	80.2	51.3	80.2	62.8	72.9	58.1	67.6
5	BL 103	81.3	50.6	80.6	61.7	78.5	61.5	69.0
6	SMH-3902	79.5	56.7	80.6	63.1	76.0	59.3	69.2
	CHECKS							
7	PMH 1 (C)	78.5	54.2	79.9	63.1	75.0	54.1	67.4
8	Seed tech 2324(C)	79.5	56.4	79.9	63.3	76.0	60.0	69.2
9	Bio-9681(C)	79.5	50.0	80.9	62.5	74.0	58.5	67.6
	Loc. Mean	**79.9**	**53.7**	**80.3**	**62.9**	**75.8**	**59.4**	**68.7**
	C.D. (5%)	2.16	11.93	1.90	1.88	9.85	5.95	2.95
	C.V. (%)	1.56	12.83	1.37	1.73	7.51	5.78	3.69
	F (Prob)	0.31	0.18	0.76	0.48	0.40	0.23	0.05

		DAYS TO 50% POLLEN SHED						NWPZ
								ZN 2
S.No.	PEDIGREE	ALIG	GURD	KANP	KARN	LUDH	PANT	Mean
1	KMH-2852	53.0	57.3	53.3	53.7	52.3	56.3	54.3
2	PM15103L	54.0	56.7	55.3	55.0	54.0	54.7	54.9
3	PM15104L	53.7	56.3	54.0	55.0	55.7	56.7	55.2
4	C.P 802	54.0	57.7	54.0	52.7	53.0	55.0	54.4
5	BL 103	51.7	56.3	55.0	52.7	55.7	54.7	54.3
6	SMH-3902	53.3	58.7	53.3	54.7	56.0	55.3	55.2
	CHECKS							
7	PMH 1 (C)	53.3	56.0	55.7	51.7	54.0	55.7	54.4
8	Seed tech 2324(C)	53.3	56.3	53.3	54.3	52.3	55.0	54.1
9	Bio-9681(C)	53.0	58.3	55.7	55.3	51.3	56.3	55.0
	Loc. Mean	**53.3**	**57.1**	**54.4**	**53.9**	**53.8**	**55.5**	**54.7**
	C.D. (5%)	1.42	0.97	1.15	0.87	2.50	2.30	1.33
	C.V. (%)	1.54	0.98	1.22	0.93	2.68	2.40	2.08
	F (Prob)	0.09	0.00	0.00	0.00	0.01	0.48	0.55

TABLE No. 8 (Contd.)

		DAYS TO 50% SILKING						NWPZ ZN 2
S.No.	PEDIGREE	ALIG	GURD	KANP	KARN	LUDH	PANT	Mean
1	KMH-2852	56.3	58.0	56.7	55.7	55.0	59.3	56.8
2	PM15103L	56.7	57.3	58.7	57.0	56.0	57.3	57.2
3	PM15104L	56.0	56.7	58.0	57.0	57.0	59.7	57.4
4	C.P 802	56.0	58.3	57.7	54.7	55.0	58.0	56.6
5	BL 103	54.3	57.0	59.3	54.7	57.3	57.7	56.7
6	SMH-3902	57.3	59.7	56.7	56.7	57.7	58.3	57.7
	CHECKS							
7	PMH 1 (C)	57.7	57.3	59.7	53.7	56.0	58.3	57.1
8	Seed tech 2324(C)	55.3	57.0	56.7	56.3	54.0	58.0	56.2
9	Bio-9681(C)	57.3	59.3	59.7	57.3	53.7	59.3	57.8
	Loc. Mean	**56.3**	**57.9**	**58.1**	**55.9**	**55.7**	**58.4**	**57.1**
	C.D. (5%)	1.49	1.52	1.12	0.87	2.93	2.46	1.35
	C.V. (%)	1.52	1.52	1.11	0.89	3.04	2.44	2.03
	F (Prob)	0.00	0.01	0.00	0.00	0.09	0.48	0.32

		DAYS TO 75% DRY HUSK						NWPZ ZN 2
S.No.	PEDIGREE	ALIG	GURD	KANP	KARN	LUDH	PANT	Mean
1	KMH-2852	88.3	91.0	105.3	89.0	87.0	118.3	96.5
2	PM15103L	88.0	93.0	106.7	90.3	86.3	119.3	97.3
3	PM15104L	88.7	91.3	109.0	90.3	86.0	120.3	97.6
4	C.P 802	87.3	90.0	110.0	88.3	86.7	120.3	97.1
5	BL 103	86.3	91.7	108.0	88.0	87.0	119.3	96.7
6	SMH-3902	89.7	91.7	110.7	89.7	87.3	120.0	98.2
	CHECKS							
7	PMH 1 (C)	90.7	90.3	107.7	87.0	87.0	117.7	96.7
8	Seed tech 2324(C)	87.0	90.3	105.0	89.0	86.3	120.3	96.3
9	Bio-9681(C)	90.7	94.3	107.7	90.0	85.7	122.3	98.4
	Loc. Mean	**88.5**	**91.5**	**107.8**	**89.1**	**86.6**	**119.8**	**97.2**
	C.D. (5%)	1.45	3.02	1.87	1.39	1.52	2.20	1.50
	C.V. (%)	0.95	1.91	1.00	0.90	1.02	1.06	1.32
	F (Prob)	0.00	0.13	0.00	0.00	0.38	0.02	0.07

TABLE No. 8 (Contd.)

		PLANT HEIGHT(cm)						NWPZ
								ZN 2
S.No.	PEDIGREE	ALIG	GURD	KANP	KARN	LUDH	PANT	Mean
1	KMH-2852	281.5	235.0	199.0	244.7	223.3	278.3	243.6
2	PM15103L	267.3	246.7	181.7	214.7	191.7	267.7	228.3
3	PM15104L	271.0	231.7	192.7	242.3	198.3	273.0	234.8
4	C.P 802	246.4	220.0	182.3	212.3	178.3	266.0	217.6
5	BL 103	259.1	241.7	182.0	223.0	203.3	287.3	232.7
6	SMH-3902	257.8	216.7	194.3	229.0	196.7	266.0	226.8
	CHECKS							
7	PMH 1 (C)	258.4	231.7	192.3	218.7	216.7	272.3	231.7
8	Seed tech 2324(C)	250.2	198.3	194.7	223.3	166.7	271.0	217.4
9	Bio-9681(C)	234.5	206.7	190.7	199.3	208.3	266.3	217.6
	Loc. Mean	**258.5**	**225.4**	**190.0**	**223.0**	**198.1**	**272.0**	**227.8**
	C.D. (5%)	5.78	27.32	10.75	4.60	24.70	15.08	12.49
	C.V. (%)	1.29	7.00	3.27	1.19	7.20	3.20	4.70
	F (Prob)	0.00	0.02	0.02	0.00	0.00	0.12	0.00

		EAR HEIGHT(cm)						NWPZ
								ZN 2
S.No.	PEDIGREE	ALIG	GURD	KANP	KARN	LUDH	PANT	Mean
1	KMH-2852	91.3	110.0	93.3	122.0	116.7	98.7	105.3
2	PM15103L	88.9	160.0	83.3	119.0	105.0	95.7	108.6
3	PM15104L	92.7	110.0	84.7	108.3	91.7	94.3	97.0
4	C.P 802	92.8	105.0	87.7	122.7	96.7	116.0	103.5
5	BL 103	100.0	111.7	76.3	118.0	113.3	130.0	108.2
6	SMH-3902	84.7	98.3	91.0	116.3	101.7	92.7	97.5
	CHECKS							
7	PMH 1 (C)	94.4	118.3	92.7	115.0	116.7	110.7	108.0
8	Seed tech 2324(C)	88.9	95.0	88.3	131.7	90.0	119.7	102.3
9	Bio-9681(C)	101.2	121.7	87.7	129.0	135.0	129.0	117.3
	Loc. Mean	**92.8**	**114.4**	**87.2**	**120.2**	**107.4**	**109.6**	**105.3**
	C.D. (5%)	10.03	38.93	9.21	3.15	14.73	10.61	13.47
	C.V. (%)	6.25	19.65	6.10	1.52	7.92	5.59	10.97
	F (Prob)	0.06	0.09	0.03	0.00	0.00	0.00	0.11

TABLE NO. 9 **PERFORMANCE OF MEDIUM MATURITY EXPERIMENTAL HYBRIDS AT LUDHIANA, KARNAL, KANPUR, PANTNAGAR, ALIGARH, GURDASPUR IN TRIAL No. TR66,70 Z2 (AVT-I,II MEDIUM-NWPZ) DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												NWPZ ZN 2		OV'L	
		LUDH	R	KARN	R	KANP	R	PANT	R	ALIG	R	GURD	R	MEAN	R	MEAN	R
1	VaMH 12014	8456	2	7172	5	6170	2	8510	3	7236	2	10558	1	8017	2	8017	2
2	HM15206	6465	4	7453	1	5462	5	8668	2	6451	5	9545	5	7341	4	7341	4
3	HM15207	6101	6	7250	4	6481	1	8017	5	7827	1	8781	6	7409	3	7409	3
4	C.P 201	9104	1	7388	2	6001	3	10123	1	7079	4	9786	3	8247	1	8247	1
	CHECKS																
5	Bio 9637(C)	6397	5	7347	3	5150	6	8240	4	6251	7	10175	2	7260	5	7260	5
6	HM9(C)	5055	7	7034	7	5902	4	5264	7	7160	3	5116	7	5922	7	5922	7
7	PMH4(C)	7872	3	7087	6	4928	7	7023	6	6281	6	9584	4	7129	6	7129	6
	Location Mean	**7064**		**7247**		**5728**		**7978**		**6898**		**9078**		**7332**		**7332**	
	C.D. (5%)	621		958		200		1377		579		2453		1031		1031	
	C.V. (%)	4.89		7.36		1.94		9.61		4.67		15.03		-		-	
	F (Prob)	0		0.937		0		0		0		0.001					
	Plot Size	14.4		18		14.4		13.5		14.4		15.6		-		-	
	AGRONOMY DATA																
	Sowing Date	25-06		26-06		23-07		29-06		27-06		7-08		-		-	
	Harvest Date	7-10		23-09		17-11		18-10		27-09		21-10		-		-	
	Irrigation Nos	7		5		2		-		2		1		-		-	
	Ferilizer Applied N	50		150		120		120		120		50		-		-	
	Ferilizer Applied P	24		60		60		60		60		24		-		-	
	Ferilizer Applied K	12		60		50		40		50		12		-		-	

TABLE No.9 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Bio 9637(C) LUDH	R	KARN	R	KANP	R	PANT	R	ALIG	R	GURD	R	NWPZ ZN 2 MEAN	R	OV'L MEAN	R
1	VaMH 12014	32.2		-		19.8		3.3		15.8		3.8		10.4		10.4	
2	HM15206	1.1		1.4		6		5.2		3.2		-		1.1		1.1	
3	HM15207	-		-		25.8		-		25.2		-		2.1		2.1	
4	C.P 201	42.3		0.5		16.5		22.9		13.2		-		13.6		13.6	
	CHECKS																
5	Bio 9637(C)	-		-		-		-		-		-		-		-	
6	HM9(C)	-		-		14.6		-		14.5		-		-		-	
7	PMH4(C)	23.1		-		-		-		0.5		-		-		-	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM9(C) LUDH	R	KARN	R	KANP	R	PANT	R	ALIG	R	GURD	R	NWPZ ZN 2 MEAN	R	OV'L MEAN	R
1	VaMH 12014	67.3		2		4.5		61.7		1.1		106.4		35.4		35.4	
2	HM15206	27.9		6		-		64.7		-		86.6		24		24	
3	HM15207	20.7		3.1		9.8		52.3		9.3		71.6		25.1		25.1	
4	C.P 201	80.1		5		1.7		92.3		-		91.3		39.3		39.3	
	CHECKS																
5	Bio 9637(C)	26.6		4.5		-		56.5		-		98.9		22.6		22.6	
6	HM9(C)	-		-		-		-		-		-		-		-	
7	PMH4(C)	55.7		0.8		-		33.4		-		87.3		20.4		20.4	

Sl No	PEDIGREE	COB YIELD % SUPERIORITY OVER THE PMH4(C) LUDH	R	KARN	R	KANP	R	PANT	R	ALIG	R	GURD	R	NWPZ ZN 2 MEAN	R	OV'L MEAN	R
1	VaMH 12014	7.4		1.2		25.2		21.2		15.2		10.2		12.5		12.5	
2	HM15206	-		5.2		10.8		23.4		2.7		-		3		3	
3	HM15207	-		2.3		31.5		14.2		24.6		-		3.9		3.9	
4	C.P 201	15.7		4.2		21.8		44.1		12.7		2.1		15.7		15.7	
	CHECKS																
5	Bio 9637(C)	-		3.7		4.5		17.3		-		6.2		1.8		1.8	
6	HM9(C)	-		-		19.8		-		14		-		-		-	
7	PMH4(C)	-		-		-		-		-		-		-		-	

TABLE No.9 (Contd.)

		MOISTURE % AT HARVEST						NWPZ
								ZN 2
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	ALIG	GURD	Mean
1	VaMH 12014	14.9	22.7	15.7	29.0	16.9	21.8	20.2
2	HM15206	17.3	23.6	14.7	26.0	16.5	22.0	20.0
3	HM15207	16.5	23.3	16.3	26.8	17.1	21.3	20.2
4	C.P 201	17.1	24.4	14.3	24.9	16.1	21.5	19.7
	CHECKS							
5	Bio 9637(C)	17.0	24.1	15.7	29.0	16.8	21.5	20.7
6	HM9(C)	13.8	22.2	17.3	26.1	16.9	21.8	19.7
7	PMH4(C)	13.9	23.7	15.3	24.7	16.8	21.0	19.2
	Loc. Mean	**15.8**	**23.4**	**15.6**	**26.6**	**16.7**	**21.5**	**19.9**
	C.D. (5%)	0.98	2.01	1.06	0.58	0.97	0.71	1.29
	C.V. (%)	3.50	4.83	3.83	1.22	3.27	1.86	5.49
	F (Prob)	0.00	0.32	0.00	0.00	0.38	0.13	0.41

		STAND AT HARVEST ('000/ha)						NWPZ
								ZN 2
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	ALIG	GURD	Mean
1	VaMH 12014	72.0	62.4	77.5	60.5	80.3	72.6	70.9
2	HM15206	47.7	62.6	78.5	55.6	78.5	72.4	65.9
3	HM15207	43.5	61.3	77.8	49.4	80.8	62.0	62.5
4	C.P 201	78.7	61.3	78.2	64.0	80.6	59.4	70.4
	CHECKS							
5	Bio 9637(C)	62.5	61.9	78.5	60.7	82.4	75.2	70.2
6	HM9(C)	62.3	61.5	78.0	55.1	76.4	55.3	64.8
7	PMH4(C)	76.4	61.5	76.9	61.7	77.8	67.1	70.2
	Loc. Mean	**63.3**	**61.8**	**77.9**	**58.1**	**79.5**	**66.3**	**67.8**
	C.D. (5%)	9.13	1.63	1.68	5.63	3.67	11.57	7.55
	C.V. (%)	8.11	1.48	1.21	5.44	2.59	9.81	9.44
	F (Prob)	0.00	0.46	0.40	0.00	0.05	0.02	0.16

		GRAIN SHELLING %						NWPZ
								ZN 2
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	ALIG	GURD	Mean
1	VaMH 12014	83.2	80.2	76.3	84.6	77.2	84.6	81.0
2	HM15206	80.9	81.6	75.3	84.5	76.4	79.7	79.7
3	HM15207	79.8	80.9	74.7	86.1	76.2	79.0	79.5
4	C.P 201	84.3	81.9	72.7	85.3	74.1	83.8	80.3
	CHECKS							
5	Bio 9637(C)	82.3	81.4	72.3	81.7	73.4	79.0	78.4
6	HM9(C)	81.3	79.1	75.3	85.3	75.1	79.2	79.2
7	PMH4(C)	85.6	81.1	75.0	82.8	76.0	85.4	81.0
	Loc. Mean	**82.5**	**80.9**	**74.5**	**84.3**	**75.5**	**81.5**	**79.9**
	C.D. (5%)	2.74	1.93	1.19	1.05	1.40	1.89	1.99
	C.V. (%)	1.87	1.34	0.89	0.70	1.04	1.30	2.12
	F (Prob)	0.01	0.09	0.00	0.00	0.00	0.00	0.10

		DAYS TO 50% POLLEN SHED						NWPZ
								ZN 2
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	ALIG	GURD	Mean
1	VaMH 12014	51.0	48.0	57.0	53.0	53.0	55.0	52.8
2	HM15206	49.7	48.3	55.7	50.3	52.7	55.7	52.1
3	HM15207	48.7	47.7	57.3	52.0	51.7	53.0	51.7
4	C.P 201	52.7	52.0	56.7	52.3	52.0	56.3	53.7
	CHECKS							
5	Bio 9637(C)	52.7	48.7	55.0	56.0	53.0	56.3	53.6
6	HM9(C)	49.0	48.3	58.7	53.0	51.7	51.0	51.9
7	PMH4(C)	46.7	48.0	56.7	51.0	50.3	51.7	50.7
	Loc. Mean	**50.0**	**48.7**	**56.7**	**52.5**	**52.0**	**54.1**	**52.4**
	C.D. (5%)	3.11	4.19	1.66	2.87	1.80	1.07	1.74
	C.V. (%)	3.49	4.84	1.65	3.07	1.94	1.12	2.81
	F (Prob)	0.01	0.37	0.01	0.02	0.07	0.00	0.02

TABLE No.9 (Contd.)

	DAYS TO 50% SILKING							NWPZ
								ZN 2
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	ALIG	GURD	Mean
1	VaMH 12014	52.7	49.7	60.3	57.0	55.7	55.0	55.1
2	HM15206	49.7	50.3	60.0	53.3	55.0	55.7	54.0
3	HM15207	48.7	49.3	61.0	55.3	53.7	54.0	53.7
4	C.P 201	53.7	54.0	60.0	56.0	55.0	56.3	55.8
	CHECKS							
5	Bio 9637(C)	53.7	50.7	59.0	59.0	55.3	56.3	55.7
6	HM9(C)	49.7	50.0	61.0	56.3	54.7	53.0	54.1
7	PMH4(C)	48.3	50.0	59.7	54.0	52.7	53.7	53.1
	Loc. Mean	**50.9**	**50.6**	**60.1**	**55.9**	**54.6**	**54.9**	**54.5**
	C.D. (5%)	3.55	4.26	1.71	3.12	1.97	0.79	1.52
	C.V. (%)	3.92	4.73	1.60	3.14	2.03	0.81	2.37
	F (Prob)	0.02	0.33	0.21	0.03	0.07	0.00	0.00

	PLANT HEIGHT(cm)							NWPZ
								ZN 2
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	ALIG	GURD	Mean
1	VaMH 12014	208.3	205.3	189.0	299.7	265.1	271.7	239.8
2	HM15206	198.3	211.3	200.3	298.0	257.2	215.0	230.0
3	HM15207	220.0	197.3	196.7	305.7	259.9	216.7	232.7
4	C.P 201	201.7	206.3	189.0	287.0	254.7	215.0	225.6
	CHECKS							
5	Bio 9637(C)	190.0	221.0	201.0	298.0	259.9	243.3	235.5
6	HM9(C)	178.3	209.7	198.0	263.3	225.3	193.3	211.3
7	PMH4(C)	185.0	204.7	200.3	250.7	221.3	206.7	211.4
	Loc. Mean	**197.4**	**208.0**	**196.3**	**286.0**	**249.1**	**223.1**	**226.6**
	C.D. (5%)	28.82	53.97	8.60	13.21	4.01	18.12	16.31
	C.V. (%)	8.21	14.59	2.46	2.60	0.91	4.57	6.10
	F (Prob)	0.10	0.98	0.03	0.00	0.00	0.00	0.00

	DAYS TO 75% DRY HUSK							NWPZ
								ZN 2
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	ALIG	GURD	Mean
1	VaMH 12014	84.3	83.3	107.7	118.3	91.0	89.0	95.6
2	HM15206	85.7	84.7	104.7	118.3	86.0	91.3	95.1
3	HM15207	85.7	83.7	101.7	117.7	83.0	89.0	93.4
4	C.P 201	86.7	86.0	108.0	116.3	86.0	92.0	95.8
	CHECKS							
5	Bio 9637(C)	86.7	85.3	101.7	120.7	91.0	92.7	96.3
6	HM9(C)	84.7	83.0	99.0	118.0	88.3	89.7	93.8
7	PMH4(C)	84.3	83.3	99.0	118.3	90.0	89.0	94.0
	Loc. Mean	**85.4**	**84.2**	**103.1**	**118.2**	**87.9**	**90.4**	**94.9**
	C.D. (5%)	2.15	4.42	2.42	3.69	1.60	1.77	2.48
	C.V. (%)	1.41	2.95	1.32	1.75	1.02	1.10	2.22
	F (Prob)	0.13	0.69	0.00	0.39	0.00	0.00	0.15

	EAR HEIGHT(cm)							NWPZ
								ZN 2
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	ALIG	GURD	Mean
1	VaMH 12014	101.7	105.3	74.3	124.7	93.9	130.0	105.0
2	HM15206	90.0	113.3	82.7	109.3	87.3	88.3	95.2
3	HM15207	110.0	105.7	76.0	121.0	85.6	103.3	100.3
4	C.P 201	101.7	90.7	71.7	110.3	98.8	106.7	96.6
	CHECKS							
5	Bio 9637(C)	101.7	122.7	92.3	139.0	112.6	136.7	117.5
6	HM9(C)	106.7	104.7	95.0	107.7	84.2	98.3	99.4
7	PMH4(C)	98.3	105.3	95.0	97.0	76.5	103.3	95.9
	Loc. Mean	**101.4**	**106.8**	**83.9**	**115.6**	**91.3**	**109.5**	**101.4**
	C.D. (5%)	23.84	33.66	3.99	9.39	3.27	15.32	11.79
	C.V. (%)	13.21	17.71	2.67	4.57	2.02	7.87	9.86
	F (Prob)	0.67	0.60	0.00	0.00	0.00	0.00	0.01

TABLE No. 10 **PERFORMANCE OF LATE MATURITY EXPERIMENTAL HYBRIDS AT BHUBANESHWAR, DHOLI, RANCHI, VARANASI, BAHRAICH, KALYANI, KORAPUT, SABOUR IN TRIAL No. TR65Z3 (AVT-I LATE MATURITY-NEPZ) DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE														NEPZ ZN 3 MEAN	R	OV'L MEAN	R
		BHUB	R	RANC	R	VARA	R	BAHR	R	KALY	R	KORA	R	SABO	R				
1	CMH12-686	7353	1	3250	8	4690	5	5336	5	9632	3	8288	7	5984	6	5323	7	5323	7
2	DKC9163 (IP8703)	6480	4	7289	2	5102	2	7274	2	9799	2	10893	3	8886	2	7006	2	7006	2
3	DKC8161 (IP8570)	6149	5	5830	5	3885	7	8661	1	4730	8	11835	2	6480	5	6201	3	6201	3
4	VNR-31565 (IMR-143)	6481	3	5820	6	4834	4	5286	6	5971	7	7315	8	5785	8	5641	5	5641	5
5	ADV 7022	7291	2	8122	1	5115	1	5884	4	6181	6	12159	1	9593	1	7201	1	7201	1
	CHECKS																		
6	PMH 1 (C)	4831	8	6036	3	4302	6	4972	7	6691	5	9994	4	6694	4	5367	6	5367	6
7	Seed tech 2324(C)	6107	6	5239	7	4981	3	6519	3	11197	1	9736	5	7751	3	6119	4	6119	4
8	Bio -9681(C)	5522	7	6028	4	2488	8	4712	8	7867	4	8777	6	5976	7	4945	8	4945	8
	Location Mean	**6277**		**5952**		**4425**		**6081**		**7759**		**9875**		**7144**		**5975**		**5975**	
	C.D. (5%)	495		946		622		664		2873		3897		2439		1033		1033	
	C.V. (%)	4.47		9.01		7.96		6.19		**20.99**		**22.37**		19.36		**-**		-	
	F (Prob)	0		0		0		0		0.002		0.108		0.019					
	Plot Size	9.6		11.2		9.6		9.6		9.6		9.6		9.6		-		-	
	AGRONOMY DATA																		
	Sowing Date	29-06		2-07		25-06		5-07		29-06		12-07		3-07		-		-	
	Harvest Date	26-10		19-10		4-10		15-10		5-10		16-11		22-10		-		-	
	Irrigation Nos	-		-		-		-		-		-		3		-		-	
	Ferilizer Applied N	120		120		120		120		150		150		130		-		-	
	Ferilizer Applied P	60		60		60		60		75		75		40		-		-	
	Ferilizer Applied K	60		40		40		60		75		75		30		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : KALY 21.0 %: KORA 22.4 %

Location Dholi: Rejected due to low trial mean yield (2049 kg/ha) in comparison to state average yield

TABLE No. 10 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 1 (C) BHUB	R	RANC	R	VARA	R	BAHR	R	KALY	R	KORA	R	SABO	R	NEPZ ZN 3 MEAN	R	OV'L MEAN	R
1	CMH12-686	52.2		-		9		7.3		43.9		-		-		-		-	
2	DKC9163 (IP8703)	34.1		20.8		18.6		46.3		46.5		9		32.7		30.5		30.5	
3	DKC8161 (IP8570)	27.3		-		-		74.2		-		18.4		-		15.5		15.5	
4	VNR-31565 (IMR-143)	34.2		-		12.4		6.3		-		-		-		5.1		5.1	
5	ADV 7022	50.9		34.6		18.9		18.3		-		21.7		43.3		34.2		34.2	
	CHECKS																		
6	PMH 1 (C)	-		-		-		-		-		-		-		-		-	
7	Seed tech 2324(C)	26.4		-		15.8		31.1		67.3		-		15.8		14		14	
8	Bio -9681(C)	14.3		-		-		-		17.6		-		-		-		-	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seed tech 2324(C) BHUB	R	RANC	R	VARA	R	BAHR	R	KALY	R	KORA	R	SABO	R	NEPZ ZN 3 MEAN	R	OV'L MEAN	R
1	CMH12-686	20.4		-		-		-		-		-		-		-		-	
2	DKC9163 (IP8703)	6.1		39.1		2.4		11.6		-		11.9		14.6		14.5		14.5	
3	DKC8161 (IP8570)	0.7		11.3		-		32.9		-		21.6		-		1.3		1.3	
4	VNR-31565 (IMR-143)	6.1		11.1		-		-		-		-		-		-		-	
5	ADV 7022	19.4		55		2.7		-		-		24.9		23.8		17.7		17.7	
	CHECKS																		
6	PMH 1 (C)	-		15.2		-		-		-		2.6		-		-		-	
7	Seed tech 2324(C)	-		-		-		-		-		-		-		-		-	
8	Bio -9681(C)	-		15.1		-		-		-		-		-		-		-	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Bio -9681(C) BHUB	R	RANC	R	VARA	R	BAHR	R	KALY	R	KORA	R	SABO	R	NEPZ ZN 3 MEAN	R	OV'L MEAN	R
1	CMH12-686	33.2		-		88.5		13.2		22.4		-		0.1		7.6		7.6	
2	DKC9163 (IP8703)	17.4		20.9		105.1		54.4		24.6		24.1		48.7		41.7		41.7	
3	DKC8161 (IP8570)	11.4		-		56.2		83.8		-		34.8		8.4		25.4		25.4	
4	VNR-31565 (IMR-143)	17.4		-		94.3		12.2		-		-		-		14.1		14.1	
5	ADV 7022	32		34.7		105.6		24.9		-		38.5		60.5		45.6		45.6	
	CHECKS																		
6	PMH 1 (C)	-		0.1		72.9		5.5		-		13.9		12		8.5		8.5	
7	Seed tech 2324(C)	10.6		-		100.2		38.3		42.3		10.9		29.7		23.7		23.7	
8	Bio -9681(C)	-		-		-		-		-		-		-		-		-	

TABLE No. 10 (Contd.)

S.No.	PEDIGREE	MOISTURE % AT HARVEST BHUB	RANC	VARA	BAHR	KORA	SABO	NEPZ ZN 3 Mean
1	CMH12-686	18.5	25.9	32.8	24.9	16.4	30.8	24.9
2	DKC9163 (IP8703)	18.4	26.3	34.3	27.5	16.5	33.1	26.0
3	DKC8161 (IP8570)	18.8	25.1	32.3	27.2	16.4	31.4	25.2
4	VNR-31565 (IMR-143)	18.9	25.4	31.7	25.9	16.4	32.0	25.0
5	ADV 7022	18.9	26.1	35.1	26.8	16.5	33.5	26.1
	CHECKS							
6	PMH 1 (C)	18.8	25.4	30.4	27.0	16.5	31.4	24.9
7	Seed tech 2324(C)	19.4	25.7	33.1	26.3	16.5	30.4	25.2
8	Bio -9681(C)	18.7	26.1	35.1	27.9	16.3	28.9	25.5
	Loc. Mean	**18.8**	**25.8**	**33.1**	**26.7**	**16.4**	**31.4**	**25.4**
	C.D. (5%)	0.00	1.51	0.50	1.03	0.33	5.33	1.15
	C.V. (%)	0.00	3.34	0.86	2.21	1.15	9.68	3.86
	F (Prob)	0.00	0.69	0.00	0.00	0.74	0.66	0.22

S.No.	PEDIGREE	GRAIN SHELLING % BHUB	RANC	VARA	BAHR	KALY	KORA	SABO	NEPZ ZN 3 Mean
1	CMH12-686	80.9	82.9	77.0	75.9	75.5	77.4	74.8	77.8
2	DKC9163 (IP8703)	81.0	83.6	77.0	81.0	81.6	78.8	77.9	80.1
3	DKC8161 (IP8570)	79.9	81.5	72.3	81.8	70.3	77.1	71.5	76.4
4	VNR-31565 (IMR-143)	79.2	84.3	77.3	74.0	86.1	78.9	81.9	80.2
5	ADV 7022	84.0	80.9	78.7	78.8	77.8	81.6	81.6	80.5
	CHECKS								
6	PMH 1 (C)	78.3	85.6	72.0	75.4	76.3	80.5	77.0	77.9
7	Seed tech 2324(C)	79.6	86.5	75.0	80.5	78.2	78.3	76.8	79.3
8	Bio -9681(C)	78.8	85.0	69.0	78.0	74.8	78.6	80.0	77.7
	Loc. Mean	**80.2**	**83.8**	**74.8**	**78.2**	**77.6**	**78.9**	**77.7**	**78.7**
	C.D. (5%)	0.00	0.79	3.43	1.42	6.85	2.03	4.27	3.03
	C.V. (%)	0.00	0.54	2.62	1.04	5.04	1.47	3.14	3.57
	F (Prob)	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.08

TABLE No. 10 (Contd.)

		STAND AT HARVEST ('000/ha)							NEPZ
									ZN 3
S.No.	PEDIGREE	BHUB	RANC	VARA	BAHR	KALY	KORA	SABO	Mean
1	CMH12-686	65.3	45.5	59.4	65.6	84.0	68.1	44.4	61.8
2	DKC9163 (IP8703)	62.5	71.7	64.9	69.8	85.4	70.8	70.5	70.8
3	DKC8161 (IP8570)	62.5	71.7	64.6	65.3	87.8	66.7	62.2	68.7
4	VNR-31565 (IMR-143)	63.5	66.7	62.2	61.8	79.2	61.1	59.4	64.8
5	ADV 7022	64.6	71.4	65.6	66.7	88.2	66.7	76.0	71.3
	CHECKS								
6	PMH 1 (C)	64.6	64.6	66.3	64.2	80.6	65.3	58.0	66.2
7	Seed tech 2324(C)	62.5	68.5	66.3	60.4	84.7	72.2	76.4	70.1
8	Bio -9681(C)	63.2	67.3	65.6	60.1	85.4	65.3	53.8	65.8
	Loc. Mean	**63.6**	**65.9**	**64.4**	**64.2**	**84.4**	**67.0**	**62.6**	**67.4**
	C.D. (5%)	3.62	6.55	2.72	5.06	7.45	7.86	11.69	5.59
	C.V. (%)	3.25	5.67	2.41	4.50	5.04	6.70	10.67	7.68
	F (Prob)	0.56	0.00	0.00	0.01	0.20	0.17	0.00	0.01

		DAYS TO 50% POLLEN SHED							NEPZ
									ZN 3
S.No.	PEDIGREE	BHUB	RANC	VARA	BAHR	KALY	KORA	SABO	Mean
1	CMH12-686	51.0	57.7	53.7	61.3	47.0	67.7	52.3	55.8
2	DKC9163 (IP8703)	54.0	56.3	53.7	59.7	46.7	67.0	53.7	55.9
3	DKC8161 (IP8570)	53.0	56.3	53.3	57.3	48.3	69.3	53.7	55.9
4	VNR-31565 (IMR-143)	55.0	55.7	53.7	60.3	47.7	68.3	53.7	56.3
5	ADV 7022	53.0	56.7	55.3	61.7	45.3	68.0	56.0	56.6
	CHECKS								
6	PMH 1 (C)	53.0	58.3	51.3	64.0	49.3	63.0	53.3	56.0
7	Seed tech 2324(C)	53.0	59.3	53.7	59.3	46.7	63.7	53.3	55.6
8	Bio -9681(C)	52.0	56.7	54.0	62.3	49.7	66.0	54.0	56.4
	Loc. Mean	**53.0**	**57.1**	**53.6**	**60.8**	**47.6**	**66.6**	**53.8**	**56.1**
	C.D. (5%)	1.22	0.71	1.66	1.98	6.92	4.04	1.81	1.75
	C.V. (%)	1.31	0.71	1.77	1.86	8.30	3.46	1.93	2.90
	F (Prob)	0.00	0.00	0.01	0.00	0.88	0.04	0.04	0.95

TABLE No. 10 (Contd.)

		DAYS TO 50% SILKING							NEPZ
									ZN 3
S.No.	PEDIGREE	BHUB	RANC	VARA	BAHR	KALY	KORA	SABO	Mean
1	CMH12-686	54.0	62.0	58.0	63.3	49.7	73.3	56.0	59.5
2	DKC9163 (IP8703)	57.0	60.0	58.0	61.7	49.0	73.0	58.0	59.5
3	DKC8161 (IP8570)	56.0	60.3	58.0	59.3	50.7	73.7	57.7	59.4
4	VNR-31565 (IMR-143)	58.0	59.7	58.3	62.3	50.3	74.3	57.7	60.1
5	ADV 7022	56.0	60.7	58.0	63.7	48.0	73.7	61.3	60.2
	CHECKS								
6	PMH 1 (C)	56.0	62.3	55.7	66.0	51.7	65.0	56.0	59.0
7	Seed tech 2324(C)	56.3	63.0	56.3	61.3	49.3	68.3	58.0	59.0
8	Bio -9681(C)	54.7	60.0	58.0	64.3	52.0	73.3	59.3	60.2
	Loc. Mean	**56.0**	**61.0**	**57.5**	**62.8**	**50.1**	**71.8**	**58.0**	**59.6**
	C.D. (5%)	1.43	0.80	2.42	1.98	6.91	4.33	1.90	2.08
	C.V. (%)	1.46	0.75	2.40	1.80	7.88	3.44	1.87	3.24
	F (Prob)	0.00	0.00	0.25	0.00	0.91	0.00	0.00	0.82

		DAYS TO 75% DRY HUSK							NEPZ
									ZN 3
S.No.	PEDIGREE	BHUB	RANC	VARA	BAHR	KALY	KORA	SABO	Mean
1	CMH12-686	95.0	98.0	88.0	95.3	90.3	104.3	90.0	94.4
2	DKC9163 (IP8703)	97.0	97.7	90.3	99.0	91.7	109.7	96.3	97.4
3	DKC8161 (IP8570)	95.0	100.3	91.3	93.7	86.0	107.7	92.3	95.2
4	VNR-31565 (IMR-143)	97.0	99.7	93.0	94.7	91.0	107.3	93.7	96.6
5	ADV 7022	96.0	97.7	91.0	96.7	81.7	106.3	94.3	94.8
	CHECKS								
6	PMH 1 (C)	97.0	100.3	83.7	97.7	89.0	104.3	87.0	94.1
7	Seed tech 2324(C)	96.0	97.7	89.3	93.7	86.7	105.0	92.3	94.4
8	Bio -9681(C)	95.0	97.3	91.3	98.7	85.0	103.0	95.3	95.1
	Loc. Mean	**96.0**	**98.6**	**89.8**	**96.2**	**87.7**	**106.0**	**92.7**	**95.3**
	C.D. (5%)	1.22	1.18	1.64	1.76	5.70	5.19	2.02	2.49
	C.V. (%)	0.72	0.68	1.05	1.04	3.71	2.80	1.25	2.42
	F (Prob)	0.00	0.00	0.00	0.00	0.03	0.20	0.00	0.12

TABLE No. 10 (Contd.)

		PLANT HEIGHT(cm)							NEPZ
									ZN 3
S.No.	PEDIGREE	BHUB	RANC	VARA	BAHR	KALY	KORA	SABO	Mean
1	CMH12-686	175.3	177.9	195.0	173.6	191.6	237.0	195.7	192.3
2	DKC9163 (IP8703)	172.7	182.7	195.0	178.1	161.9	245.7	201.7	191.1
3	DKC8161 (IP8570)	177.0	186.0	173.3	168.5	155.8	256.7	184.3	186.0
4	VNR-31565 (IMR-143)	178.3	183.4	185.0	169.8	181.5	232.3	199.0	189.9
5	ADV 7022	176.7	182.2	180.0	161.6	164.9	226.0	182.7	182.0
	CHECKS								
6	PMH 1 (C)	171.0	187.4	200.0	164.6	178.9	253.7	220.0	196.5
7	Seed tech 2324(C)	172.0	174.4	181.7	162.9	158.4	214.3	157.3	174.4
8	Bio -9681(C)	174.7	163.4	185.0	153.7	160.5	215.0	164.7	173.8
	Loc. Mean	**174.7**	**179.7**	**186.9**	**166.6**	**169.2**	**235.1**	**188.2**	**185.8**
	C.D. (5%)	4.70	14.83	25.64	17.82	21.70	16.99	17.94	10.51
	C.V. (%)	1.54	4.71	7.84	6.11	7.32	4.13	5.45	5.24
	F (Prob)	0.05	0.07	0.39	0.19	0.03	0.00	0.00	0.00

		EAR HEIGHT(cm)							NEPZ
									ZN 3
S.No.	PEDIGREE	BHUB	RANC	VARA	BAHR	KALY	KORA	SABO	Mean
1	CMH12-686	79.3	74.9	105.0	76.3	82.4	107.3	95.3	88.7
2	DKC9163 (IP8703)	77.7	89.2	106.7	59.4	68.5	116.3	96.3	87.7
3	DKC8161 (IP8570)	79.7	78.6	85.0	57.8	63.5	111.7	83.0	79.9
4	VNR-31565 (IMR-143)	81.3	77.3	96.7	60.7	69.1	99.7	104.3	84.2
5	ADV 7022	79.0	81.7	88.3	58.2	69.8	99.0	87.0	80.4
	CHECKS								
6	PMH 1 (C)	74.0	87.7	105.0	70.3	75.7	123.0	118.3	93.4
7	Seed tech 2324(C)	73.3	84.5	108.3	68.2	84.3	108.0	82.3	87.0
8	Bio -9681(C)	75.0	82.3	96.7	66.9	75.6	116.3	82.7	85.1
	Loc. Mean	**77.4**	**82.0**	**99.0**	**64.7**	**73.6**	**110.2**	**93.7**	**85.8**
	C.D. (5%)	3.85	8.52	21.54	14.98	9.29	12.98	18.45	7.66
	C.V. (%)	2.84	5.93	12.43	13.22	7.20	6.73	11.25	8.27
	F (Prob)	0.00	0.03	0.24	0.15	0.00	0.02	0.01	0.02

TABLE No. 11 PERFORMANCE OF MEDIUM MATURITY EXPERIMENTAL HYBRIDS AT BHUBANESHWAR, DHOLI, RANCHI, VARANASI, BAHRAICH, KALYANI, KORAPUT, SABOUR IN TRIAL No. TR66Z3 (AVT-I MEDIUM-NEPZ) DURING KHARIF 2016

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE														NEPZ ZN 3		OV'L	
		BHUB	R	RANC	R	VARA	R	BAHR	R	KALY	R	KORA	R	SABO	R	MEAN	R	MEAN	R
1	VaMH 12014	6327	1	7981	2	6389	2	4022	8	5698	6	9485	5	7250	2	6736	2	6736	2
2	HM15206	5708	4	5784	6	3515	8	7238	1	6500	2	8143	6	3841	8	5819	7	5819	7
3	JKMH 4103	5520	6	6616	4	4608	5	4190	7	6074	4	12106	1	6584	4	6528	3	6528	3
4	BL 107	5916	2	7189	3	5923	3	6812	2	5685	7	5331	7	5227	6	6012	5	6012	5
5	IIMRNH 2015-4	5365	7	5761	7	5286	4	4675	5	4746	8	9894	4	6865	3	6085	4	6085	4
6	BL 106	5110	9	5169	8	3704	7	3690	9	6088	3	4798	8	5973	5	4933	8	4933	8
7	JH 13347	5741	3	8033	1	7273	1	5502	3	7837	1	11419	3	8900	1	7815	1	7815	1
	CHECKS																		
8	Bio 9637(C)	5560	5	6324	5	3924	6	5035	4	4046	9	11611	2	4343	7	5835	6	5835	6
9	HM9(C)	5152	8	2595	9	2900	9	4301	6	5854	5	4774	9	2782	9	4051	9	4051	9
	Location Mean	**5600**		**6161**		**4836**		**5052**		**5837**		**8618**		**5752**		**5979**		**5979**	
	C.D. (5%)	368		995		738		612		1541		1938		1685		1125		1125	
	C.V. (%)	3.77		9.28		8.77		6.96		15.17		12.92		16.84		-		-	
	F (Prob)	0		0		0		0		0.003		0		0					
	Plot Size	9.6		11.2		9.6		9.6		9.6		9.6		9.6		-		-	
	AGRONOMY DATA																		
	Sowing Date	29-06		2-07		25-06		5-07		29-06		12-07		3-07		-		-	
	Harvest Date	20-10		19-10		4-10		15-10		7-10		12-11		22-10		-		-	
	Irrigation Nos	-		-		-		-		-		-		3		-		-	
	Ferilizer Applied N	120		120		120		120		150		150		130		-		-	
	Ferilizer Applied P	60		60		60		60		75		75		40		-		-	
	Ferilizer Applied K	60		40		40		60		75		75		30		-		-	

Location Dholi: Rejected due to low trial mean yield (2004 kg/ha) in comparison to state average yield

TABLE No. 11 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Bio 9637(C)												NEPZ ZN 3 MEAN	R	OV'L MEAN	R
		BHUB	R	RANC	R	VARA	R	BAHR	R	KALY	R	KORA	R	SABO	R				
1	VaMH 12014	13.8		26.2		62.8		-		40.8		-		66.9		15.4		15.4	
2	HM15206	2.7		-		-		43.8		60.7		-		-		-		-	
3	JKMH 4103	-		4.6		17.4		-		50.1		4.3		51.6		11.9		11.9	
4	BL 107	6.4		13.7		50.9		35.3		40.5		-		20.4		3		3	
5	IIMRNH 2015-4	-		-		34.7		-		17.3		-		58.1		4.3		4.3	
6	BL 106	-		-		-		-		50.5		-		37.5		-		-	
7	JH 13347	3.3		27		85.3		9.3		93.7		-		104.9		33.9		33.9	
	CHECKS																		
8	Bio 9637(C)	-		-		-		-		-		-		-		-		-	
9	HM9(C)	-		-		-		-		44.7		-		-		-		-	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM9(C												NEPZ ZN 3 MEAN	R	OV'L MEAN	R
		BHUB	R	RANC	R	VARA	R	BAHR	R	KALY	R	KORA	R	SABO	R				
1	VaMH 12014	22.8		207.6		120.3		-		-		98.7		160.6		66.3		66.3	
2	HM15206	10.8		122.9		21.2		68.3		11		70.6		38.1		43.6		43.6	
3	JKMH 4103	7.1		155		58.9		-		3.8		153.6		136.6		61.1		61.1	
4	BL 107	14.8		177		104.2		58.4		-		11.7		87.9		48.4		48.4	
5	IIMRNH 2015-4	4.1		122		82.3		8.7		-		107.3		146.8		50.2		50.2	
6	BL 106	-		99.2		27.7		-		4		0.5		114.7		21.8		21.8	
7	JH 13347	11.4		209.6		150.8		27.9		33.9		139.2		219.9		92.9		92.9	
	CHECKS																		
8	Bio 9637(C)	7.9		143.7		35.3		17.1		-		143.2		56.1		44		44	
9	HM9(C)	-		-		-		-		-		-		-		-		-	

TABLE No. 11 (Contd.)

		MOISTURE % AT HARVEST						NEPZ
								ZN 3
S.No.	PEDIGREE	BHUB	RANC	VARA	BAHR	KORA	SABO	Mean
1	VaMH 12014	18.8	25.2	28.2	26.9	16.4	29.8	24.2
2	HM15206	19.5	25.1	28.5	26.9	16.6	28.2	24.1
3	JKMH 4103	18.6	26.0	28.4	23.5	16.5	30.0	23.8
4	BL 107	19.4	26.3	28.8	25.8	16.4	28.8	24.3
5	IIMRNH 2015-4	17.2	25.4	28.8	23.0	16.5	26.3	22.9
6	BL 106	17.6	26.3	29.2	25.0	16.3	31.5	24.3
7	JH 13347	18.1	26.1	28.4	26.8	16.4	28.9	24.1
	CHECKS							
8	Bio 9637(C)	17.9	26.1	31.4	24.9	16.5	30.4	24.5
9	HM9(C)	18.8	25.8	27.1	23.1	16.4	27.1	23.0
	Loc. Mean	**18.4**	**25.8**	**28.7**	**25.1**	**16.4**	**29.0**	**23.9**
	C.D. (5%)	0.00	1.17	1.66	0.97	0.11	4.20	1.21
	C.V. (%)	0.00	2.62	3.34	2.22	0.39	8.37	4.35
	F (Prob)	0.00	0.27	0.01	0.00	0.01	0.28	0.09

		GRAIN SHELLING %							NEPZ
									ZN 3
S.No.	PEDIGREE	BHUB	RANC	VARA	BAHR	KALY	KORA	SABO	Mean
1	VaMH 12014	83.3	84.4	78.0	76.9	76.0	81.9	79.2	79.9
2	HM15206	81.5	82.9	74.7	81.3	76.3	80.4	77.7	79.3
3	JKMH 4103	78.3	84.0	75.7	77.1	80.0	83.9	74.4	79.0
4	BL 107	81.3	82.5	76.7	80.6	82.7	81.8	75.0	80.1
5	IIMRNH 2015-4	79.7	80.4	79.0	76.3	80.0	80.3	76.4	78.9
6	BL 106	82.5	81.9	80.0	74.8	82.3	83.0	80.9	80.8
7	JH 13347	82.9	83.2	79.7	78.3	81.9	83.4	77.4	81.0
	CHECKS								
8	Bio 9637(C)	78.2	84.5	71.3	77.4	79.4	79.0	79.1	78.4
9	HM9(C)	83.5	82.5	75.3	75.6	79.8	78.3	77.6	78.9
	Loc. Mean	**81.2**	**82.9**	**76.7**	**77.6**	**79.8**	**81.3**	**77.5**	**79.6**
	C.D. (5%)	-	1.04	5.15	1.40	3.92	2.36	4.64	2.27
	C.V. (%)	-	0.73	3.88	1.04	2.84	1.67	3.46	2.66
	F (Prob)	0.00	0.00	0.05	0.00	0.02	0.00	0.16	0.30

TABLE No. 11 (Contd.)

		STAND AT HARVEST ('000/ha)							NEPZ
									ZN 3
S.No.	PEDIGREE	BHUB	RANC	VARA	BAHR	KALY	KORA	SABO	Mean
1	VaMH 12014	62.2	73.8	63.5	67.7	86.8	75.7	69.4	71.3
2	HM15206	60.4	45.5	58.0	62.5	87.2	50.7	30.2	56.4
3	JKMH 4103	62.8	72.6	63.2	60.1	86.1	67.4	64.2	68.1
4	BL 107	62.2	70.5	60.4	65.6	86.8	67.7	50.0	66.2
5	IIMRNH 2015-4	61.5	70.5	65.3	59.0	86.8	72.9	71.9	69.7
6	BL 106	62.5	67.9	59.4	61.8	86.1	75.3	57.3	67.2
7	JH 13347	65.3	69.9	65.3	63.9	87.5	74.7	74.7	71.6
	CHECKS								
8	Bio 9637(C)	63.5	64.3	64.6	59.4	83.0	61.5	47.2	63.4
9	HM9(C)	61.5	37.8	57.6	63.2	85.1	43.8	31.9	54.4
	Loc. Mean	**62.4**	**63.7**	**61.9**	**62.6**	**86.1**	**65.5**	**55.2**	**65.3**
	C.D. (5%)	3.17	5.13	3.67	4.53	5.14	14.92	11.55	7.91
	C.V. (%)	2.93	4.66	3.43	4.18	3.45	13.16	12.09	11.26
	F (Prob)	0.16	0.00	0.00	0.01	0.73	0.00	0.00	0.00

		DAYS TO 50% POLLEN SHED							NEPZ
									ZN 3
S.No.	PEDIGREE	BHUB	RANC	VARA	BAHR	KALY	KORA	SABO	Mean
1	VaMH 12014	50.3	55.3	51.0	57.3	45.7	60.3	52.3	53.2
2	HM15206	50.3	52.3	51.7	59.7	50.7	64.0	51.7	54.3
3	JKMH 4103	50.0	50.7	50.3	51.7	50.3	60.7	49.7	51.9
4	BL 107	49.0	52.7	49.7	52.3	48.0	59.3	49.7	51.5
5	IIMRNH 2015-4	48.0	51.0	51.7	54.3	50.0	59.7	51.7	52.3
6	BL 106	49.0	50.7	53.0	60.7	49.7	61.3	50.7	53.6
7	JH 13347	48.7	50.3	52.0	60.7	45.7	59.3	50.0	52.4
	CHECKS								
8	Bio 9637(C)	49.0	54.3	54.0	56.3	45.3	63.7	54.0	53.8
9	HM9(C)	49.7	52.7	51.7	56.3	49.7	60.3	49.7	52.9
	Loc. Mean	**49.3**	**52.2**	**51.7**	**56.6**	**48.3**	**61.0**	**51.0**	**52.9**
	C.D. (5%)	1.53	0.93	2.76	2.15	4.04	2.42	1.69	2.01
	C.V. (%)	1.79	1.03	3.09	2.19	4.83	2.29	1.91	3.53
	F (Prob)	0.06	0.00	0.11	0.00	0.04	0.00	0.00	0.12

TABLE No. 11 (Contd.)

		DAYS TO 50% SILKING							NEPZ
									ZN 3
S.No.	PEDIGREE	BHUB	RANC	VARA	BAHR	KALY	KORA	SABO	Mean
1	VaMH 12014	53.7	59.3	56.3	59.3	48.3	64.0	56.0	56.7
2	HM15206	54.0	56.3	57.7	61.7	52.7	66.7	55.0	57.7
3	JKMH 4103	54.0	54.7	55.7	53.7	53.0	63.3	54.0	55.5
4	BL 107	53.0	56.7	55.0	54.3	50.7	63.0	54.7	55.3
5	IIMRNH 2015-4	51.7	55.3	56.3	56.3	53.0	63.0	54.7	55.8
6	BL 106	53.0	54.7	57.7	62.7	52.7	65.3	57.0	57.6
7	JH 13347	52.0	54.3	55.7	62.7	48.0	64.7	54.0	55.9
	CHECKS								
8	Bio 9637(C)	52.3	58.3	58.7	58.3	47.3	67.7	59.3	57.4
9	HM9(C)	53.3	56.7	57.7	58.3	52.3	64.0	55.0	56.8
	Loc. Mean	**53.0**	**56.3**	**56.7**	**58.6**	**50.9**	**64.6**	**55.5**	**56.5**
	C.D. (5%)	1.68	0.95	3.19	2.15	4.07	2.50	2.02	2.05
	C.V. (%)	1.83	0.98	3.25	2.12	4.62	2.23	2.10	3.37
	F (Prob)	0.07	0.00	0.30	0.00	0.03	0.01	0.00	0.13

		DAYS TO 75% DRY HUSK							NEPZ
									ZN 3
S.No.	PEDIGREE	BHUB	RANC	VARA	BAHR	KALY	KORA	SABO	Mean
1	VaMH 12014	86.0	97.3	84.7	87.7	89.0	97.3	89.0	90.1
2	HM15206	90.0	99.0	86.3	89.3	90.7	99.7	90.7	92.2
3	JKMH 4103	89.0	92.7	84.7	83.7	89.7	96.7	91.3	89.7
4	BL 107	87.0	97.3	85.3	81.7	87.0	98.0	90.3	89.5
5	IIMRNH 2015-4	88.0	98.3	83.3	82.7	93.0	96.7	87.0	89.9
6	BL 106	87.0	93.3	87.0	88.7	90.3	88.3	90.3	89.3
7	JH 13347	85.0	91.7	83.0	90.3	84.0	100.0	90.3	89.2
	CHECKS								
8	Bio 9637(C)	88.0	96.3	90.0	94.7	95.3	104.3	92.0	94.4
9	HM9(C)	87.0	96.7	87.3	85.7	89.3	97.7	91.0	90.7
	Loc. Mean	**87.4**	**95.9**	**85.7**	**87.1**	**89.8**	**97.6**	**90.2**	**90.6**
	C.D. (5%)	1.80	1.03	3.68	1.76	6.02	3.45	1.61	2.82
	C.V. (%)	1.19	0.62	2.48	1.17	3.87	2.04	1.03	2.90
	F (Prob)	0.00	0.00	0.02	0.00	0.05	0.00	0.00	0.01

TABLE No. 11 (Contd.)

		PLANT HEIGHT(cm)							NEPZ
									ZN 3
S.No.	PEDIGREE	BHUB	RANC	VARA	BAHR	KALY	KORA	SABO	Mean
1	VaMH 12014	152.7	201.7	195.0	178.8	146.6	265.1	198.3	191.2
2	HM15206	157.7	189.5	181.7	175.9	153.1	266.8	173.7	185.5
3	JKMH 4103	155.3	184.8	193.3	140.2	173.6	245.0	177.3	181.4
4	BL 107	147.7	188.2	186.7	167.4	183.4	262.5	161.3	185.3
5	IIMRNH 2015-4	154.0	189.3	176.7	166.0	177.8	246.3	177.3	183.9
6	BL 106	153.0	182.1	188.3	168.3	171.3	244.9	160.0	181.1
7	JH 13347	151.7	184.6	183.3	160.9	164.1	229.9	177.3	178.8
	CHECKS								
8	Bio 9637(C)	153.7	190.4	193.3	165.2	185.8	225.4	174.3	184.0
9	HM9(C)	151.3	169.9	171.7	136.0	149.1	222.3	140.0	162.9
	Loc. Mean	**153.0**	**186.7**	**185.6**	**162.1**	**167.2**	**245.4**	**171.1**	**181.6**
	C.D. (5%)	3.77	17.50	19.19	3.42	25.12	44.08	18.91	11.56
	C.V. (%)	1.42	5.41	5.97	1.22	8.68	10.38	6.39	5.93
	F (Prob)	0.00	0.10	0.21	0.00	0.03	0.29	0.00	0.00

		EAR HEIGHT(cm)							NEPZ
									ZN 3
S.No.	PEDIGREE	BHUB	RANC	VARA	BAHR	KALY	KORA	SABO	Mean
1	VaMH 12014	62.7	88.6	96.7	54.3	68.7	126.5	80.3	82.5
2	HM15206	59.3	87.3	91.7	71.7	56.4	132.7	71.3	81.5
3	JKMH 4103	61.0	88.5	83.3	47.3	74.9	115.5	78.0	78.3
4	BL 107	58.0	82.4	93.3	75.6	75.0	134.7	75.7	85.0
5	IIMRNH 2015-4	61.0	80.0	85.0	69.3	80.8	121.7	83.0	83.0
6	BL 106	61.7	82.9	85.0	60.5	63.4	122.4	71.7	78.2
7	JH 13347	60.0	86.7	88.3	63.8	75.8	114.7	93.7	83.3
	CHECKS								
8	Bio 9637(C)	61.7	96.5	96.7	63.3	77.5	135.7	90.0	88.8
9	HM9(C)	65.0	77.5	88.3	40.9	52.9	100.6	62.3	69.7
	Loc. Mean	**61.1**	**85.6**	**89.8**	**60.7**	**69.5**	**122.7**	**78.4**	**81.1**
	C.D. (5%)	2.57	8.80	10.97	2.88	15.14	11.90	18.50	7.73
	C.V. (%)	2.43	5.94	7.06	2.74	12.59	5.60	13.62	8.86
	F (Prob)	0.00	0.01	0.13	0.00	0.01	0.00	0.06	0.00

TABLE No. 12 **PERFORMANCE OF LATE MATURITY EXPERIMENTAL HYBRIDS AT HYDERABAD, KARIMNAGAR, DHARWAD, VRDC-DHARWAD, MANDYA, NIPHAD, VAGARAI, COIMBATORE, DHULE, PARBHANI, RAHURI IN TRIAL No. TR65,69 Z4 (AVT-I,II LATE-PZ) DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																				PZ ZN 4		OV'L	
		HYDE	R	KARI	R	DHAR	R	VRDC	R	MAND	R	NIPH	R	VAGA	R	COIM	R	DHUL	R	PARB	R	RAHU	R	MEAN	R	MEAN	R
1	CMH12-688	6274	10	3900	9	10960	9	5117	10	9966	3	8018	10	7965	5	10908	3	8645	9	8582	2	8670	3	8091	8	8091	8
2	DKC9167 (IP8708)	9505	1	6419	1	12862	4	6762	3	9492	5	8866	7	9680	1	9453	8	9574	6	7561	8	6113	10	8753	5	8753	5
3	ADV 7022	8608	3	5733	2	13161	3	7037	2	9828	4	10054	4	6819	9	9532	7	10591	4	7771	7	10717	1	9077	3	9077	3
4	DAS-MH-111	6848	7	4570	8	12284	5	6343	5	9992	2	10740	2	9271	3	12135	2	11703	1	9580	1	7882	6	9213	1	9213	1
5	HT 51412616	7133	6	5420	3	15072	1	5246	9	9483	6	9222	6	6977	8	8701	10	9925	5	7807	6	6155	9	8286	6	8286	6
6	DMH192	9069	2	4916	6	14338	2	7699	1	10838	1	9255	5	9387	2	9548	6	9565	7	7820	5	7893	5	9121	2	9121	2
7	ADV 0990296	7936	4	4933	5	12172	6	6359	4	8868	8	10519	3	8437	4	12564	1	10768	3	8105	3	6913	7	8870	4	8870	4
	CHECKS																										
8	Seed tech 2324(C)	7681	5	4752	7	11480	8	6111	6	9319	7	8269	8	7819	6	9003	9	9096	8	7174	9	8459	4	8106	7	8106	7
9	Bio 9681(C)	6760	8	3544	10	11958	7	5409	7	6345	10	11476	1	7770	7	10424	4	11372	2	6761	10	6833	8	8059	9	8059	9
10	PMH 1(C)	6650	9	5209	4	9661	10	5263	8	8256	9	8101	9	6794	10	9616	5	8526	10	8025	4	10018	2	7829	10	7829	10
	Location Mean	**7646**		**4940**		**12395**		**6135**		**9239**		**9452**		**8092**		**10188**		**9976**		**7919**		**7965**		**8541**		**8541**	
	C.D. (5%)	804		1149		1589		1903		950		598		606		400		1827		1361		2033		1202		1202	
	C.V. (%)	6.11		13.5		7.44		18.01		5.97		3.67		4.35		2.28		10.63		9.97		14.81		-		-	
	F (Prob)	0		0.002		0		0.083		0		0		0		0		0.01		0.022		0.001					
	Plot Size	18		18		14.4		14.4		12		18		14.4		14.4		18		18		18		-		-	
	AGRONOMY DATA																										
	Sowing Date	29-06		14-07		27-06		29-06		3-08		18-07		1-08		13-07		1-07		2-07		13-07		-		-	
	Harvest Date	29-10		18-11		30-10		11-12		6-12		26-11		18-11		7-11		30-10		19-10		25-11		-		-	
	Irrigation Nos	4		7		3		3		8		-		12		12		-		-		-		-		-	
	Ferilizer Applied N	200		200		150		150		150		120		250		250		120		120		120		-		-	
	Ferilizer Applied P	60		60		65		75		75		60		75		75		60		60		60		-		-	
	Ferilizer Applied K	50		50		65		37.5		40		40		75		75		60		40		40		-		-	

TABLE No. 12 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seed tech 2324(C)																		PZ ZN 4 MEAN	R	OV'L MEAN	R
		HYDE	R	KARI	R	DHAR	R	VRDC	R	MAND	R	NIPH	R	VAGA	R	COIM	R	DHUL	R	PARB	R	RAHU	R				
1	CMH12-688	-		-		-		-		6.9		-		1.9		21.2		-		19.6		2.5		-		-	
2	DKC9167 (IP8708)	23.7		35.1		12		10.6		1.9		7.2		23.8		5		5.3		5.4		-		8		8	
3	ADV 7022	12.1		20.6		14.6		15.1		5.5		21.6		-		5.9		16.4		8.3		26.7		12		12	
4	DAS-MH-111	-		-		7		3.8		7.2		29.9		18.6		34.8		28.7		33.5		-		13.7		13.7	
5	HT 51412616	-		14.1		31.3		-		1.8		11.5		-		-		9.1		8.8		-		2.2		2.2	
6	DMH192	18.1		3.5		24.9		26		16.3		11.9		20.1		6		5.2		9		-		12.5		12.5	
7	ADV 0990296	3.3		3.8		6		4.1		-		27.2		7.9		39.5		18.4		13		-		9.4		9.4	
	CHECKS																										
8	Seed tech 2324(C)	-		-		-		-		-		-		-		-		-		-		-		-		-	
9	Bio 9681(C)	-		-		4.2		-		-		38.8		-		15.8		25		-		-		-		-	
10	PMH 1(C)	-		9.6		-		-		-		-		-		6.8		-		11.9		18.4		-		-	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Bio 9681(C)																		PZ ZN 4 MEAN	R	OV'L MEAN	R
		HYDE	R	KARI	R	DHAR	R	VRDC	R	MAND	R	NIPH	R	VAGA	R	COIM	R	DHUL	R	PARB	R	RAHU	R				
1	CMH12-688	-		10.1		-		-		57.1		-		2.5		4.6		-		26.9		26.9		0.4		0.4	
2	DKC9167 (IP8708)	40.6		81.1		7.6		25		49.6		-		24.6		-		-		11.8		-		8.6		8.6	
3	ADV 7022	27.3		61.8		10.1		30.1		54.9		-		-		-		-		14.9		56.8		12.6		12.6	
4	DAS-MH-111	1.3		29		2.7		17.3		57.5		-		19.3		16.4		2.9		41.7		15.3		14.3		14.3	
5	HT 51412616	5.5		52.9		26		-		49.5		-		-		-		-		15.5		-		2.8		2.8	
6	DMH192	34.2		38.7		19.9		42.3		70.8		-		20.8		-		-		15.7		15.5		13.2		13.2	
7	ADV 0990296	17.4		39.2		1.8		17.6		39.7		-		8.6		20.5		-		19.9		1.2		10.1		10.1	
	CHECKS																										
8	Seed tech 2324(C)	13.6		34.1		-		13		46.9		-		0.6		-		-		6.1		23.8		0.6		0.6	
9	Bio 9681(C)	-		-		-		-		-		-		-		-		-		-		-		-		-	
10	PMH 1(C)	-		47		-		-		30.1		-		-		-		-		18.7		46.6		-		-	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 1(C)																		PZ ZN 4 MEAN	R	OV'L MEAN	R
		HYDE	R	KARI	R	DHAR	R	VRDC	R	MAND	R	NIPH	R	VAGA	R	COIM	R	DHUL	R	PARB	R	RAHU	R				
1	CMH12-688	-		-		13.4		-		20.7		-		17.2		13.4		1.4		6.9		-		3.4		3.4	
2	DKC9167 (IP8708)	42.9		23.2		33.1		28.5		15		9.4		42.5		-		12.3		-		-		11.8		11.8	
3	ADV 7022	29.4		10		36.2		33.7		19		24.1		0.4		-		24.2		-		7		15.9		15.9	
4	DAS-MH-111	3		-		27.1		20.5		21		32.6		36.5		26.2		37.2		19.4		-		17.7		17.7	
5	HT 51412616	7.3		4		56		-		14.9		13.8		2.7		-		16.4		-		-		5.8		5.8	
6	DMH192	36.4		-		48.4		46.3		31.3		14.2		38.2		-		12.2		-		-		16.5		16.5	
7	ADV 0990296	19.3		-		26		20.8		7.4		29.8		24.2		30.7		26.3		1		-		13.3		13.3	
	CHECKS																										
8	Seed tech 2324(C)	15.5		-		18.8		16.1		12.9		2.1		15.1		-		6.7		-		-		3.5		3.5	
9	Bio 9681(C)	1.7		-		23.8		2.8		-		41.7		14.4		8.4		33.4		-		-		2.9		2.9	
10	PMH 1(C)	-		-		-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 12 (Contd.)

		MOISTURE % AT HARVEST											PZ
													ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	RAHU	Mean
1	CMH12-688	21.9	21.8	18.6	13.1	18.2	11.2	16.2	22.3	17.5	27.3	15.0	18.4
2	DKC9167 (IP8708)	23.6	21.5	20.4	12.4	18.5	11.2	16.0	24.8	18.5	26.9	14.7	18.9
3	ADV 7022	24.4	21.9	19.4	13.7	17.3	11.1	17.2	20.1	18.9	28.5	16.1	18.9
4	DAS-MH-111	23.4	21.9	20.5	13.3	18.3	11.0	17.5	21.8	18.0	27.2	18.6	19.2
5	HT 51412616	24.0	21.2	11.9	13.4	18.1	11.1	16.9	23.1	17.7	26.9	16.3	18.2
6	DMH192	22.5	24.1	12.4	13.1	18.6	11.2	16.3	24.2	17.6	26.5	16.6	18.4
7	ADV 0990296	25.3	21.4	17.4	13.2	18.3	11.0	15.8	23.0	19.2	28.3	14.9	18.9
	CHECKS												
8	Seed tech 2324(C)	22.2	24.4	16.4	12.6	18.8	11.1	15.5	25.3	16.7	25.8	15.9	18.6
9	Bio 9681(C)	21.9	22.2	12.5	12.0	17.5	11.2	17.1	23.1	16.6	26.1	15.8	17.8
10	PMH 1(C)	23.6	22.6	16.3	12.5	18.1	11.0	16.8	24.2	16.5	26.5	16.0	18.6
	Loc. Mean	**23.3**	**22.3**	**16.6**	**13.0**	**18.1**	**11.1**	**16.5**	**23.2**	**17.7**	**27.0**	**16.0**	**18.6**
	C.D. (5%)	2.04	2.49	4.15	2.14	0.83	0.13	0.73	0.95	3.22	1.57	0.36	1.13
	C.V. (%)	5.10	6.52	14.60	9.64	2.66	0.68	2.60	2.38	10.60	3.39	1.31	7.18
	F (Prob)	0.03	0.16	0.00	0.83	0.04	0.02	0.00	0.00	0.65	0.04	0.00	0.41

		GRAIN SHELLING %											PZ
													ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	RAHU	Mean
1	CMH12-688	75.9	76.8	88.2	86.6	78.8	70.2	79.1	81.1	78.1	82.0	81.0	79.8
2	DKC9167 (IP8708)	79.8	77.9	85.9	86.1	79.0	71.2	81.8	78.0	78.1	80.5	83.5	80.2
3	ADV 7022	82.0	80.3	88.4	88.0	81.0	76.0	78.3	83.0	83.0	82.3	86.0	82.6
4	DAS-MH-111	77.0	74.3	81.8	84.4	80.4	76.9	81.5	79.1	78.0	84.9	81.0	79.9
5	HT 51412616	79.3	76.7	86.7	85.8	79.8	77.5	78.8	80.4	80.9	81.1	83.0	80.9
6	DMH192	78.7	80.5	86.5	86.7	81.6	75.9	81.8	81.2	81.4	83.6	83.5	81.9
7	ADV 0990296	80.1	81.4	87.1	90.0	81.0	77.5	80.6	83.0	83.0	83.0	88.0	83.1
	CHECKS												
8	Seed tech 2324(C)	78.8	79.9	86.6	88.1	78.5	74.6	79.2	78.1	79.1	85.1	86.0	81.3
9	Bio 9681(C)	79.1	75.7	86.6	84.8	80.8	80.5	78.7	82.3	78.3	82.7	83.0	81.1
10	PMH 1(C)	74.4	74.2	84.5	85.6	77.5	72.4	77.7	76.3	77.2	84.3	83.0	78.8
	Loc. Mean	**78.5**	**77.8**	**86.2**	**86.6**	**79.8**	**75.3**	**79.7**	**80.2**	**79.7**	**83.0**	**83.8**	**81.0**
	C.D. (5%)	3.77	2.42	1.06	2.34	1.11	1.24	1.77	0.67	2.17	4.99	0.89	1.48
	C.V. (%)	2.80	1.82	0.72	1.57	0.81	0.96	1.29	0.49	1.59	3.51	0.62	2.15
	F (Prob)	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00

TABLE No. 12 (Contd.)

		STAND AT HARVEST ('000/ha)											PZ
													ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	RAHU	Mean
1	CMH12-688	50.4	46.5	64.8	28.9	67.2	59.6	59.5	66.2	57.8	64.1	46.3	55.6
2	DKC9167 (IP8708)	64.8	61.1	71.5	44.0	72.8	61.1	62.0	66.0	60.6	64.8	45.2	61.3
3	ADV 7022	62.6	55.7	70.4	49.5	70.3	61.1	59.3	65.3	60.4	64.6	44.3	60.3
4	DAS-MH-111	60.0	58.9	74.8	40.5	70.3	63.5	59.7	66.2	62.2	63.7	48.3	60.7
5	HT 51412616	57.6	54.1	74.5	44.0	66.4	58.1	59.7	65.5	60.6	65.4	44.4	59.1
6	DMH192	58.7	58.7	76.4	48.4	70.0	60.9	59.5	66.2	59.3	64.3	41.3	60.3
7	ADV 0990296	61.5	49.8	71.5	44.0	67.8	59.8	60.2	66.2	58.9	63.9	49.6	59.4
	CHECKS												
8	Seed tech 2324(C)	63.3	58.5	69.9	44.9	70.0	57.8	59.5	66.4	57.6	64.4	46.5	59.9
9	Bio 9681(C)	59.1	42.6	76.4	46.3	71.1	59.1	58.8	66.0	57.8	64.8	39.6	58.3
10	PMH 1(C)	56.7	50.9	67.4	44.4	70.0	61.7	61.1	66.0	61.3	63.0	42.4	58.6
	Loc. Mean	**59.5**	**53.7**	**71.8**	**43.5**	**69.6**	**60.3**	**59.9**	**66.0**	**59.6**	**64.3**	**44.8**	**59.4**
	C.D. (5%)	3.67	6.17	9.32	8.53	4.53	3.03	3.04	0.79	3.64	1.85	4.89	2.58
	C.V. (%)	3.60	6.70	7.57	11.43	3.79	2.93	2.96	0.70	3.56	1.68	6.37	5.13
	F (Prob)	0.00	0.00	0.22	0.01	0.19	0.03	0.56	0.15	0.15	0.35	0.01	0.00

		DAYS TO 50% POLLEN SHED											PZ
													ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	RAHU	Mean
1	CMH12-688	56.3	57.7	62.7	64.0	55.3	59.0	53.7	51.3	56.7	60.7	57.0	57.7
2	DKC9167 (IP8708)	56.7	59.0	62.3	64.5	56.0	59.3	52.3	51.0	59.0	58.7	60.0	58.1
3	ADV 7022	57.7	58.3	64.3	65.5	57.0	61.7	56.3	53.7	62.0	60.0	61.7	59.8
4	DAS-MH-111	56.0	57.3	61.0	64.5	55.0	57.7	51.3	50.3	55.3	58.0	57.0	56.7
5	HT 51412616	57.0	57.7	63.0	65.0	55.7	61.7	53.0	51.3	57.7	59.0	61.7	58.4
6	DMH192	57.0	58.3	60.7	64.5	56.0	65.3	53.0	51.7	64.7	59.3	58.0	59.0
7	ADV 0990296	57.0	58.3	62.7	66.5	53.7	67.0	53.7	50.3	64.3	60.7	58.3	59.3
	CHECKS												
8	Seed tech 2324(C)	57.3	58.3	61.7	63.5	52.0	60.3	51.0	49.3	59.0	58.0	58.3	57.2
9	Bio 9681(C)	55.7	56.7	59.0	59.0	50.7	58.7	51.0	51.3	56.3	58.7	59.7	56.1
10	PMH 1(C)	56.0	56.7	60.0	63.0	53.3	61.3	48.3	50.3	57.7	57.3	58.3	56.6
	Loc. Mean	**56.7**	**57.8**	**61.7**	**64.0**	**54.5**	**61.2**	**52.4**	**51.1**	**59.3**	**59.0**	**59.0**	**57.9**
	C.D. (5%)	0.93	1.02	1.65	1.57	1.31	2.50	0.72	0.97	2.43	1.84	3.34	1.31
	C.V. (%)	0.95	1.03	1.56	1.43	1.40	2.38	0.80	1.11	2.39	1.82	3.30	2.67
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.00

TABLE No. 12 (Contd.)

		DAYS TO 50% SILKING											PZ
													ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	RAHU	Mean
1	CMH12-688	58.3	60.0	64.7	65.0	57.3	60.3	56.7	55.3	59.3	67.0	59.0	60.3
2	DKC9167 (IP8708)	58.7	60.7	64.3	65.5	57.7	60.7	55.3	55.7	65.0	64.7	62.0	60.9
3	ADV 7022	59.7	61.0	65.7	66.5	61.0	63.7	59.3	57.7	64.7	67.0	63.0	62.7
4	DAS-MH-111	58.0	59.7	62.3	65.5	57.7	58.7	54.3	54.3	58.7	65.0	60.0	59.5
5	HT 51412616	59.0	60.3	65.0	66.0	57.0	62.7	56.0	54.3	62.3	66.3	63.3	61.1
6	DMH192	59.0	60.3	63.0	65.5	58.0	67.3	56.0	55.7	68.3	67.3	59.3	61.8
7	ADV 0990296	59.0	60.0	64.3	68.0	57.7	68.0	56.7	56.3	67.3	67.3	60.3	62.3
	CHECKS												
8	Seed tech 2324(C)	59.3	60.7	63.3	65.0	56.0	63.0	54.0	52.3	62.7	65.0	59.7	60.1
9	Bio 9681(C)	57.7	58.7	60.7	60.0	52.3	60.0	54.0	55.7	60.7	66.3	61.3	58.8
10	PMH 1(C)	58.0	58.7	61.7	64.0	55.0	63.0	52.0	54.3	60.7	65.3	59.7	59.3
	Loc. Mean	**58.7**	**60.0**	**63.5**	**65.1**	**57.0**	**62.7**	**55.4**	**55.2**	**63.0**	**66.1**	**60.8**	**60.7**
	C.D. (5%)	0.93	0.95	1.50	1.39	1.92	3.37	0.68	1.21	2.75	1.61	3.10	1.32
	C.V. (%)	0.92	0.92	1.38	1.24	1.96	3.13	0.72	1.28	2.54	1.42	2.98	2.56
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.00

		DAYS TO 75% DRY HUSK											PZ
													ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	RAHU	Mean
1	CMH12-688	98.0	101.3	102.0	108.0	95.3	110.3	97.7	97.3	109.3	117.3	93.7	102.8
2	DKC9167 (IP8708)	97.7	102.3	107.0	110.5	99.0	115.7	96.0	96.3	115.7	114.7	99.0	104.9
3	ADV 7022	99.0	102.0	104.3	109.5	104.3	115.7	98.7	99.3	114.3	117.0	100.7	105.9
4	DAS-MH-111	97.3	100.0	106.0	108.0	102.7	110.0	95.3	95.7	109.3	115.0	95.3	103.2
5	HT 51412616	97.3	102.3	105.3	109.0	103.3	116.0	97.0	95.3	114.7	116.3	97.3	104.9
6	DMH192	99.0	101.0	107.7	110.0	106.3	118.7	97.0	96.3	117.0	117.3	100.0	106.4
7	ADV 0990296	100.0	102.0	107.0	110.0	104.7	117.0	97.7	98.3	116.0	117.3	102.0	106.5
	CHECKS												
8	Seed tech 2324(C)	99.0	102.0	104.3	108.5	101.0	115.7	94.7	94.3	114.0	115.0	96.0	104.0
9	Bio 9681(C)	97.3	100.7	103.3	106.5	93.3	107.3	95.7	96.7	106.3	116.3	101.0	102.2
10	PMH 1(C)	96.3	100.3	102.7	106.5	95.7	112.3	93.0	95.3	110.3	115.3	94.0	102.0
	Loc. Mean	**98.1**	**101.4**	**105.0**	**108.7**	**100.6**	**113.9**	**96.3**	**96.5**	**112.7**	**116.2**	**97.9**	**104.3**
	C.D. (5%)	1.61	1.94	2.62	0.85	4.16	2.78	1.02	1.03	2.99	1.61	4.40	1.65
	C.V. (%)	0.96	1.11	1.46	0.46	2.41	1.42	0.62	0.62	1.55	0.81	2.62	1.86
	F (Prob)	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00

TABLE No. 12 (Contd.)

		PLANT HEIGHT(cm)											PZ
													ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	RAHU	Mean
1	CMH12-688	208.7	171.0	229.7	181.3	230.3	251.3	160.1	197.4	253.1	195.0	213.3	208.3
2	DKC9167 (IP8708)	227.7	186.3	245.0	170.0	237.7	234.0	157.6	201.5	238.6	187.7	185.0	206.5
3	ADV 7022	213.0	183.7	218.0	170.4	211.0	211.0	106.7	191.4	215.8	182.3	205.0	191.7
4	DAS-MH-111	217.0	174.7	247.7	182.1	220.3	255.0	140.5	214.8	243.0	218.7	200.0	210.3
5	HT 51412616	205.0	165.7	219.0	171.3	207.7	230.0	134.9	177.3	219.4	184.7	181.7	190.6
6	DMH192	231.7	181.3	231.3	181.3	218.0	221.7	142.4	168.6	220.2	210.0	216.7	202.1
7	ADV 0990296	200.3	154.7	199.3	157.3	176.0	215.3	112.1	181.2	210.3	154.3	190.0	177.4
	CHECKS												
8	Seed tech 2324(C)	208.0	174.7	211.3	164.4	268.0	224.3	144.7	177.3	224.3	167.7	198.3	196.6
9	Bio 9681(C)	213.0	169.7	223.7	182.9	204.3	238.0	161.0	195.9	236.0	169.0	196.7	199.1
10	PMH 1(C)	232.7	182.7	233.3	183.0	224.3	247.0	149.2	221.3	247.7	209.0	216.7	213.4
	Loc. Mean	**215.7**	**174.4**	**225.8**	**174.4**	**219.8**	**232.8**	**140.9**	**192.7**	**230.8**	**187.8**	**200.3**	**199.6**
	C.D. (5%)	13.34	11.32	14.43	17.02	18.46	14.09	8.42	8.70	7.50	10.06	24.56	10.20
	C.V. (%)	3.61	3.78	3.73	5.69	4.90	3.53	3.48	2.63	1.89	3.12	7.15	6.03
	F (Prob)	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00

		EAR HEIGHT(cm)											PZ
													ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	RAHU	Mean
1	CMH12-688	86.0	67.0	96.3	76.6	128.7	83.0	86.0	108.0	82.8	105.3	90.0	91.8
2	DKC9167 (IP8708)	90.0	86.0	112.3	86.8	121.7	82.7	93.6	110.7	79.9	84.3	73.3	92.8
3	ADV 7022	81.7	76.7	103.7	78.9	120.0	79.0	75.2	107.8	75.9	85.7	88.3	88.4
4	DAS-MH-111	81.3	74.3	121.0	87.3	128.0	84.3	74.4	109.1	88.7	99.7	76.7	93.2
5	HT 51412616	88.3	69.7	118.0	85.3	109.7	87.0	80.5	113.1	87.5	85.0	80.0	91.3
6	DMH192	87.3	75.7	102.0	65.0	113.3	77.3	77.0	92.9	76.4	107.7	95.0	88.1
7	ADV 0990296	72.7	58.0	91.7	59.9	103.3	59.0	66.4	95.2	57.9	75.7	73.3	73.9
	CHECKS												
8	Seed tech 2324(C)	87.3	84.0	108.7	80.5	108.3	80.0	80.7	114.0	78.4	92.7	90.0	91.3
9	Bio 9681(C)	88.0	69.3	87.3	67.4	101.0	92.0	83.1	113.1	90.8	77.0	90.0	87.2
10	PMH 1(C)	98.7	85.0	108.3	87.6	124.3	84.0	85.2	124.1	80.4	103.7	96.7	98.0
	Loc. Mean	**86.1**	**74.6**	**104.9**	**77.5**	**115.8**	**80.8**	**80.2**	**108.8**	**79.9**	**91.7**	**85.3**	**89.6**
	C.D. (5%)	10.78	7.01	15.88	13.53	11.29	5.22	6.23	3.98	4.18	7.26	16.16	6.15
	C.V. (%)	7.30	5.48	8.82	10.17	5.68	3.77	4.53	2.13	3.05	4.61	11.04	8.10
	F (Prob)	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00

TABLE No. 13 **PERFORMANCE OF MEDIUM MATURITY EXPERIMENTAL HYBRIDS AT HYDERABAD, KARIMNAGAR, DHARWAD, VRDC-DHARWAD, MANDYA, NIPHAD, VAGARAI, COIMBATORE, DHULE, PARBHANI IN TRIAL No. TR66,70 Z4 (AVT-I,II MEDIUM-PZ) DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																		PZ ZN 4		OV'L	
		HYDE	R	KARI	R	DHAR	R	VRDC	R	MAND	R	NIPH	R	VAGA	R	COIM	R	DHUL	R	PARB	R	MEAN	R	MEAN	R
1	BL 106	8726	1	6707	2	8014	6	5598	6	8968	6	9435	2	8233	5	9542	6	10111	3	7625	1	8296	5	8296	5
2	JH 13348	6487	6	5157	4	9298	4	6062	5	10885	4	8360	6	8176	6	10894	2	8872	5	6486	6	8068	6	8068	6
3	JH 31605	7664	3	4187	5	10119	2	7547	2	10907	3	8289	7	9905	2	10297	3	8213	6	7138	3	8427	3	8427	3
4	JKMH 4848	8036	2	6715	1	8554	5	8009	1	11758	1	9222	3	9601	3	10948	1	10270	2	6679	5	8979	1	8979	1
	CHECKS																								
5	Bio 9637(C)	6764	5	4118	6	11205	1	6526	4	11206	2	9207	4	8806	4	9569	5	9464	4	7325	2	8419	4	8419	4
6	HM9(C)	4690	7	2443	7	7937	7	4413	7	7318	7	8881	5	6964	7	8977	7	7690	7	5792	7	6511	7	6511	7
7	PMH4(C)	7336	4	6526	3	9746	3	6768	3	10005	5	10507	1	10190	1	10116	4	10436	1	6855	4	8849	2	8849	2
	Location Mean	**7100**		**5122**		**9267**		**6418**		**10150**		**9129**		**8839**		**10049**		**9294**		**6843**		**8221**		**8221**	
	C.D. (5%)	1013		1319		2888		1239		643		559		328		390		1479		1764		1162		1162	
	C.V. (%)	7.94		14.33		17.34		10.75		3.52		3.41		2.07		2.16		8.86		14.35		-		-	
	F (Prob)	0		0		0.146		0		0		0		0		0		0.006		0.333					
	Plot Size	18		18		14.4		14.4		12		18		14.4		14.4		18		18		-		-	
	AGRONOMY DATA																								
	Sowing Date	29-06		1-07		27-06		29-06		3-08		18-07		3-08		6-07		1-07		2-07		-		-	
	Harvest Date	26-10		25-10		25-10		11-12		7-12		16-11		17-11		18-10		26-10		18-10		-		-	
	Irrigation Nos	4		5		3		3		8		-		11		10		-		-		-		-	
	Ferilizer Applied N	200		200		150		150		150		120		250		250		120		120		-		-	
	Ferilizer Applied P	60		60		65		75		75		60		75		75		60		60		-		-	
	Ferilizer Applied K	50		50		65		37.5		40		40		75		75		60		40		-		-	

TABLE No. 13 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Bio 9637(C) HYDE	R	KARI	R	DHAR	R	VRDC	R	MAND	R	NIPH	R	VAGA	R	COIM	R	DHUL	R	PARB	R	PZ ZN 4 MEAN	R	OV'L MEAN	R
1	BL 106	29		62.9		-		-		-		2.5		-		-		6.8		4.1		-		-	
2	JH 13348	-		25.2		-		-		-		-		-		13.9		-		-		-		-	
3	JH 31605	13.3		1.7		-		15.6		-		-		12.5		7.6		-		-		0.1		0.1	
4	JKMH 4848	18.8		63.1		-		22.7		4.9		0.2		9		14.4		8.5		-		6.7		6.7	
	CHECKS																								
5	Bio 9637(C)	-		-		-		-		-		-		-		-		-		-		-		-	
6	HM9(C)	-		-		-		-		-		-		-		-		-		-		-		-	
7	PMH4(C)	8.5		58.5		-		3.7		-		14.1		15.7		5.7		10.3		-		5.1		5.1	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM9(C) HYDE	R	KARI	R	DHAR	R	VRDC	R	MAND	R	NIPH	R	VAGA	R	COIM	R	DHUL	R	PARB	R	PZ ZN 4 MEAN	R	OV'L MEAN	R
1	BL 106	86.1		175		1		26.9		22.5		6.2		18.2		6.3		31.5		31.7		27.4		27.4	
2	JH 13348	38.3		111		17.1		37.4		48.7		-		17.4		21.4		15.4		12		23.9		23.9	
3	JH 31605	63.4		71.4		27.5		71		49		-		42.2		14.7		6.8		23.2		29.4		29.4	
4	JKMH 4848	71.4		175		7.8		81.5		60.7		3.8		37.9		22		33.5		15.3		37.9		37.9	
	CHECKS																								
5	Bio 9637(C)	44.2		68.6		41.2		47.9		53.1		3.7		26.5		6.6		23.1		26.5		29.3		29.3	
6	HM9(C)	-		-		-		-		-		-		-		-		-		-		-		-	
7	PMH4(C)	56.4		167		22.8		53.3		36.7		18.3		46.3		12.7		35.7		18.4		35.9		35.9	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH4(C) HYDE	R	KARI	R	DHAR	R	VRDC	R	MAND	R	NIPH	R	VAGA	R	COIM	R	DHUL	R	PARB	R	PZ ZN 4 MEAN	R	OV'L MEAN	R
1	BL 106	18.9		2.8		-		-		-		-		-		-		-		11.2		-		-	
2	JH 13348	-		-		-		-		8.8		-		-		7.7		-		-		-		-	
3	JH 31605	4.5		-		3.8		11.5		9		-		-		1.8		-		4.1		-		-	
4	JKMH 4848	9.5		2.9		-		18.3		17.5		-		-		8.2		-		-		1.5		1.5	
	CHECKS																								
5	Bio 9637(C)	-		-		15		-		12		-		-		-		-		6.9		-		-	
6	HM9(C)	-		-		-		-		-		-		-		-		-		-		-		-	
7	PMH4(C)	-		-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 13 (Contd.)

	MOISTURE % AT HARVEST										PZ
											ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	Mean
1	BL 106	22.2	22.9	14.2	12.0	16.4	11.0	17.2	21.4	16.5	26.1	18.0
2	JH 13348	21.6	20.8	13.5	12.8	17.0	11.2	16.7	23.2	16.6	26.2	17.9
3	JH 31605	23.9	24.0	16.7	13.0	18.4	11.0	16.6	23.1	18.3	26.5	19.1
4	JKMH 4848	21.4	23.1	11.9	14.1	18.2	11.0	16.6	23.1	15.4	26.1	18.1
	CHECKS											
5	Bio 9637(C)	20.8	22.3	13.7	13.2	18.1	11.2	17.1	26.9	16.7	26.5	18.6
6	HM9(C)	19.6	22.7	12.1	12.7	16.8	11.1	15.8	20.9	14.5	24.7	17.1
7	PMH4(C)	22.1	21.4	12.4	12.1	17.1	11.2	16.7	21.6	16.3	24.4	17.5
	Loc. Mean	**21.7**	**22.4**	**13.5**	**12.8**	**17.4**	**11.1**	**16.7**	**22.9**	**16.3**	**25.8**	**18.1**
	C.D. (5%)	1.58	1.31	4.02	2.65	0.79	0.13	0.70	0.56	3.27	1.69	0.87
	C.V. (%)	4.11	3.28	16.75	11.61	2.54	0.68	2.37	1.37	11.26	3.68	5.39
	F (Prob)	0.00	0.00	0.23	0.67	0.00	0.03	0.02	0.00	0.37	0.08	0.00

	GRAIN SHELLING %										PZ
											ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	Mean
1	BL 106	82.1	82.1	87.6	88.9	84.0	77.7	82.2	78.1	82.1	77.2	82.2
2	JH 13348	78.2	81.5	88.2	86.8	81.8	76.9	81.9	83.4	83.4	77.2	81.9
3	JH 31605	77.5	79.7	86.5	86.3	79.2	79.5	80.3	76.7	79.0	74.7	79.9
4	JKMH 4848	83.1	83.7	87.1	87.3	81.9	80.6	80.9	79.7	84.3	78.2	82.7
	CHECKS											
5	Bio 9637(C)	79.1	78.9	87.2	85.3	79.0	79.5	79.3	79.4	80.1	76.3	80.4
6	HM9(C)	75.4	77.9	84.3	83.1	76.1	78.5	78.7	79.1	75.9	77.8	78.7
7	PMH4(C)	80.9	81.0	89.0	88.5	82.0	80.5	81.4	80.1	82.2	75.8	82.1
	Loc. Mean	**79.5**	**80.7**	**87.1**	**86.6**	**80.5**	**79.0**	**80.6**	**79.5**	**81.0**	**76.7**	**81.1**
	C.D. (5%)	3.57	2.22	0.69	2.23	1.44	1.63	1.31	0.69	2.93	5.02	1.34
	C.V. (%)	2.53	1.55	0.45	1.45	1.00	1.16	0.91	0.49	2.03	3.68	1.85
	F (Prob)	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00

TABLE No. 13 (Contd.)

		STAND AT HARVEST ('000/ha)										PZ
												ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	Mean
1	BL 106	61.3	62.4	70.1	42.1	69.7	60.9	61.3	66.9	60.2	63.0	61.8
2	JH 13348	50.7	50.9	61.3	40.7	69.4	61.9	60.2	66.2	61.7	64.6	58.8
3	JH 31605	60.4	60.9	72.2	44.9	67.2	57.2	63.0	66.7	58.3	64.3	61.5
4	JKMH 4848	60.6	60.6	66.4	45.8	71.7	59.4	61.6	66.4	59.4	62.8	61.5
	CHECKS											
5	Bio 9637(C)	51.3	48.9	67.6	40.0	73.9	59.6	60.9	60.4	60.2	64.8	58.8
6	HM9(C)	46.9	41.3	56.5	31.0	66.4	56.1	60.0	65.5	58.0	63.1	54.5
7	PMH4(C)	58.9	60.7	71.8	45.8	69.2	60.9	60.6	66.4	60.6	65.0	62.0
	Loc. Mean	**55.7**	**55.1**	**66.6**	**41.5**	**69.6**	**59.4**	**61.1**	**65.5**	**59.8**	**63.9**	**59.8**
	C.D. (5%)	5.83	5.72	12.25	12.28	2.98	2.40	2.49	7.05	3.82	1.58	3.08
	C.V. (%)	5.88	5.84	10.34	16.64	2.41	2.27	2.29	6.05	3.59	1.39	5.74
	F (Prob)	0.00	0.00	0.13	0.20	0.00	0.00	0.24	0.47	0.42	0.03	0.00

		DAYS TO 50% POLLEN SHED										PZ
												ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	Mean
1	BL 106	55.3	55.7	59.0	60.0	52.0	54.7	49.3	48.3	53.7	53.7	54.2
2	JH 13348	56.0	57.0	58.7	60.0	54.7	56.7	50.3	47.7	57.0	53.3	55.1
3	JH 31605	54.7	53.3	57.3	59.0	51.7	55.0	48.3	47.7	54.7	51.7	53.3
4	JKMH 4848	52.3	52.7	58.0	60.0	50.3	55.7	47.7	46.3	54.3	49.0	52.6
	CHECKS											
5	Bio 9637(C)	55.0	55.3	59.0	60.5	52.7	55.0	50.7	49.0	54.0	53.7	54.5
6	HM9(C)	52.7	53.0	58.3	62.0	52.3	56.3	48.3	47.7	54.0	51.3	53.6
7	PMH4(C)	53.7	54.0	56.7	57.0	50.3	53.0	48.3	46.7	52.7	51.7	52.4
	Loc. Mean	**54.2**	**54.4**	**58.1**	**59.8**	**52.0**	**55.2**	**49.0**	**47.6**	**54.3**	**52.0**	**53.7**
	C.D. (5%)	1.27	1.07	1.65	1.61	2.07	3.68	1.11	0.94	2.62	1.15	0.86
	C.V. (%)	1.31	1.11	1.60	1.52	2.24	3.75	1.27	1.11	2.71	1.25	1.79
	F (Prob)	0.00	0.00	0.07	0.00	0.01	0.45	0.00	0.00	0.09	0.00	0.00

TABLE No. 13 (Contd.)

		DAYS TO 50% SILKING										PZ
												ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	Mean
1	BL 106	57.3	57.7	59.0	61.0	55.0	58.3	53.0	51.0	57.0	59.0	56.8
2	JH 13348	58.0	59.0	59.7	61.0	56.3	60.0	53.7	50.3	61.3	58.0	57.7
3	JH 31605	56.7	55.0	58.3	60.0	54.7	57.7	52.3	50.3	59.0	56.3	56.0
4	JKMH 4848	54.3	54.7	59.0	60.5	54.0	59.0	51.3	50.0	58.7	54.7	55.6
	CHECKS											
5	Bio 9637(C)	57.0	58.0	59.3	61.5	56.0	57.7	54.3	52.0	58.7	58.3	57.3
6	HM9(C)	54.7	55.0	59.3	63.5	55.3	59.0	52.0	50.3	59.0	57.0	56.5
7	PMH4(C)	55.0	55.7	58.0	58.5	53.3	57.3	52.3	50.0	58.0	58.0	55.6
	Loc. Mean	**56.1**	**56.4**	**59.0**	**60.9**	**55.0**	**58.4**	**52.7**	**50.6**	**58.8**	**57.3**	**56.5**
	C.D. (5%)	1.81	1.43	1.58	1.62	2.16	4.06	0.85	0.55	2.79	1.47	0.88
	C.V. (%)	1.81	1.42	1.50	1.50	2.21	3.90	0.91	0.61	2.67	1.44	1.73
	F (Prob)	0.00	0.00	0.32	0.00	0.10	0.78	0.00	0.00	0.13	0.00	0.00

		DAYS TO 75% DRY HUSK										PZ
												ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	Mean
1	BL 106	90.3	94.0	101.0	103.5	96.7	107.7	94.0	91.7	106.0	107.3	99.2
2	JH 13348	91.0	94.7	108.7	106.5	104.0	115.0	94.7	91.0	113.7	108.3	102.8
3	JH 31605	89.0	90.7	99.3	106.5	94.0	110.0	93.3	90.7	106.3	104.0	98.4
4	JKMH 4848	88.3	90.3	100.7	104.0	96.0	110.0	92.3	90.3	108.3	102.0	98.2
	CHECKS											
5	Bio 9637(C)	90.0	93.3	112.0	109.0	103.7	108.3	95.0	92.7	109.3	108.3	102.2
6	HM9(C)	88.3	90.0	102.0	106.5	97.0	108.3	93.0	91.3	109.0	107.0	99.3
7	PMH4(C)	88.3	91.0	103.0	104.5	96.0	110.0	93.3	90.7	108.3	108.0	99.3
	Loc. Mean	**89.3**	**92.0**	**103.8**	**105.8**	**98.2**	**109.9**	**93.7**	**91.2**	**108.7**	**106.4**	**99.9**
	C.D. (5%)	1.45	1.49	2.34	1.15	1.83	3.54	0.87	0.65	3.53	2.99	1.74
	C.V. (%)	0.91	0.91	1.27	0.61	1.05	1.81	0.52	0.40	1.83	1.58	1.94
	F (Prob)	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00

TABLE No. 13 (Contd.)

		PLANT HEIGHT(cm)										PZ
												ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	Mean
1	BL 106	226.0	150.7	234.3	163.3	208.3	252.7	167.1	176.7	251.4	189.0	201.9
2	JH 13348	238.0	180.0	247.0	191.8	226.0	266.3	174.7	190.0	258.5	209.3	218.2
3	JH 31605	216.7	164.0	233.3	177.7	215.7	257.0	165.0	189.6	250.7	192.0	206.2
4	JKMH 4848	232.0	120.7	241.0	175.6	226.3	246.3	158.0	200.6	248.5	183.7	203.3
	CHECKS											
5	Bio 9637(C)	247.0	166.7	243.0	191.9	220.7	249.0	161.0	197.6	219.6	194.0	209.0
6	HM9(C)	193.0	136.3	201.0	170.8	211.3	236.0	130.5	165.4	222.7	158.7	182.6
7	PMH4(C)	197.7	143.3	200.3	156.9	178.0	256.3	144.5	183.1	252.6	161.0	187.4
	Loc. Mean	**221.5**	**151.7**	**228.6**	**175.4**	**212.3**	**252.0**	**157.3**	**186.1**	**243.4**	**184.0**	**201.2**
	C.D. (5%)	26.23	13.52	11.93	20.42	17.74	12.72	8.18	7.54	4.35	9.26	10.22
	C.V. (%)	6.66	5.01	2.93	6.54	4.70	2.84	2.92	2.28	1.00	2.83	5.66
	F (Prob)	0.01	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00

		EAR HEIGHT(cm)										PZ
												ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	Mean
1	BL 106	85.0	50.3	102.7	80.1	104.7	79.3	91.0	90.1	77.9	83.3	84.4
2	JH 13348	94.0	74.3	108.0	92.8	118.7	92.3	92.0	104.0	91.3	109.3	97.7
3	JH 31605	87.0	62.3	100.0	93.7	104.0	78.3	93.4	104.4	79.1	98.0	90.0
4	JKMH 4848	89.3	51.0	101.7	73.5	99.7	72.3	88.6	97.3	72.1	80.3	82.6
	CHECKS											
5	Bio 9637(C)	91.7	65.0	121.3	103.1	117.3	94.3	91.8	106.7	90.6	106.0	98.8
6	HM9(C)	63.0	38.7	81.7	62.0	101.0	68.0	69.2	78.3	62.8	65.7	69.0
7	PMH4(C)	77.3	46.3	90.7	75.1	86.0	86.3	83.3	98.8	81.3	73.3	79.9
	Loc. Mean	**83.9**	**55.4**	**100.9**	**82.9**	**104.5**	**81.6**	**87.0**	**97.1**	**79.3**	**88.0**	**86.1**
	C.D. (5%)	10.30	9.43	12.24	16.74	6.70	5.76	4.88	3.27	1.94	6.07	5.23
	C.V. (%)	6.90	9.57	6.82	11.35	3.61	3.97	3.15	1.89	1.37	3.88	6.78
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 14 **PERFORMANCE OF EARLY MATURITY EXPERIMENTAL HYBRIDS AT HYDERABAD, KARIMNAGAR, DHARWAD, VRDC-DHARWAD, MANDYA, NIPHAD, VAGARAI, COIMBATORE, DHULE, PARBHANI, RAHURI IN TRIAL No. TR67Z4 (AVT-I EARLY-PZ) DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																				PZ ZN 4 MEAN	R	OV'L MEAN	R
		HYDE	R	KARI	R	DHAR	R	VRDC	R	MAND	R	NIPH	R	VAGA	R	COIM	R	DHUL	R	PARB	R	RAHU	R				
1	AH-7006	5444	5	5028	3	7052	5	5549	5	8094	6	6410	6	7155	6	10128	4	6266	6	4366	6	4654	6	6460	5	6460	5
2	JKMH 4222	9311	1	6988	1	11713	3	6880	1	10700	2	7163	4	9410	3	11514	1	8488	4	5255	1	7821	1	8836	2	8836	2
3	Seed Tech 2324 (Filler)	7201	3	5389	2	13203	1	6185	4	11454	1	9013	2	11018	1	11330	2	9599	2	4884	4	6590	2	8968	1	8968	1
4	PMH1(Filler)	7613	2	4830	4	12435	2	6539	3	10589	3	9679	1	10749	2	10501	3	9614	1	5010	3	6248	4	8727	3	8727	3
5	PMH4 (Filler)	7028	4	4601	5	8670	4	6690	2	10489	4	8833	3	7980	4	9897	5	8980	3	4244	7	6421	3	7714	4	7714	4
	CHECKS																										
6	PMH-5(C)	5376	6	4033	6	1900	7	2520	6	8432	5	6648	5	7607	5	8662	7	6417	5	4628	5	5153	5	5886	6	5886	6
7	Prakash(C)	4133	7	1410	7	2206	6	1360	7	8000	7	4445	7	2990	7	8959	6	3583	7	5035	2	3800	7	4456	7	4456	7
	Location Mean	**6587**		**4611**		**8168**		**5103**		**9680**		**7456**		**8130**		**10142**		**7564**		**4775**		**5813**		**7292**		**7292**	
	C.D. (5%)	1172		1049		2101		2232		692		535		599		518		1813		606		1679		1076		1076	
	C.V. (%)	9.9		12.65		14.31		**24.34**		3.98		3.99		4.1		2.84		13.34		7.06		16.08		**-**		-	
	F (Prob)	0		0		0		0		0		0		0		0		0		0.012		0.004					
	Plot Size	12		12		9.6		9.6		9.6		12		9.6		9.6		12		18		9.6		-		-	
	AGRONOMY DATA																										
	Sowing Date	29-06		14-07		27-06		29-06		3-08		7-18		3-08		6-07		1-07		2-07		13-07		-		-	
	Harvest Date	18-10		20-10		27-10		10-12		14-12		2-11		15-11		8-10		22-10		17-10		28-10		-		-	
	Irrigation Nos	4		4		3		3		8		-		10		8		-		-		2		-		-	
	Ferilizer Applied N	200		200		150		150		150		120		250		250		120		120		100		-		-	
	Ferilizer Applied P	60		60		65		75		75		60		75		75		60		60		50		-		-	
	Ferilizer Applied K	50		50		65		37.5		40		40		75		75		60		40		30		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : VRDC 24.3 %

TABLE No. 14 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-5(C)																PZ ZN 4 MEAN	R	OV'L MEAN	R
		HYDE	R	KARI	R	DHAR	R	VRDC	R	MAND	R	NIPH	R	VAGA	R	COIM	R	DHUL	R	PARB	R	RAHU	R				
1	AH-7006	1.3		24.6		271.2		120.2		-		-		-		16.9		-		-		-		9.8		9.8	
2	JKMH 4222	73.2		73.2		516.6		173		26.9		7.8		23.7		32.9		32.3		13.5		51.8		50.1		50.1	
3	Seed Tech 2324 (Filler)	33.9		33.6		595		145.4		35.8		35.6		44.8		30.8		49.6		5.5		27.9		52.4		52.4	
4	PMH1(Filler)	41.6		19.8		554.6		159.5		25.6		45.6		41.3		21.2		49.8		8.2		21.2		48.3		48.3	
5	PMH4 (Filler)	30.7		14.1		356.4		165.5		24.4		32.9		4.9		14.3		39.9		-		24.6		31.1		31.1	
	CHECKS																										
6	PMH-5(C)	-		-		-		-		-		-		-		-		-		-		-		-		-	
7	Prakash(C)	-		-		16.1		-		-		-		-		3.4		-		8.8		-		-		-	

Sl No	PEDIGREE	COB YIELD % SUPERIORITY OVER THE Prakash(C)																PZ ZN 4 MEAN	R	OV'L MEAN	R
		HYDE	R	KARI	R	DHAR	R	VRDC	R	MAND	R	NIPH	R	VAGA	R	COIM	R	DHUL	R	PARB	R	RAHU	R				
1	AH-7006	31.7		257		219.7		307.9		1.2		44.2		139.3		13.1		74.9		-		22.5		45		45	
2	JKMH 4222	125.3		396		431		405.8		33.8		61.2		214.7		28.5		136.9		4.4		105.8		98.3		98.3	
3	Seed Tech 2324 (Filler)	74.2		282		498.6		354.7		43.2		103		268.5		26.5		167.9		-		73.4		101.3		101.3	
4	PMH1(Filler)	84.2		243		463.8		380.7		32.4		118		259.5		17.2		168.3		-		64.4		95.8		95.8	
5	PMH4 (Filler)	70		226		293.1		391.8		31.1		98.7		166.9		10.5		150.6		-		69		73.1		73.1	
	CHECKS																										
6	PMH-5(C)	30.1		186		-		85.2		5.4		49.6		154.4		-		79.1		-		35.6		32.1		32.1	
7	Prakash(C)	-		-		-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 14 (Contd.)

		MOISTURE % AT HARVEST											PZ
													ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	RAHU	Mean
1	AH-7006	17.7	22.2	21.4	12.3	14.3	11.1	15.9	19.2	15.1	23.8	12.2	16.8
2	JKMH 4222	19.2	18.3	20.4	13.3	15.6	11.2	16.7	20.5	16.6	25.3	12.5	17.2
3	Seed Tech 2324 (Filler)	23.7	21.9	17.1	12.7	16.5	11.2	17.0	24.2	18.7	27.3	15.5	18.7
4	PMH1(Filler)	22.1	26.2	24.4	12.8	15.4	11.1	17.3	23.2	18.1	26.1	12.1	19.0
5	PMH4 (Filler)	21.4	22.3	26.3	12.7	16.3	11.2	16.3	23.0	15.4	25.3	11.9	18.4
	CHECKS												
6	PMH-5(C)	20.1	17.2	15.3	11.6	13.5	11.2	16.4	20.5	14.9	24.4	12.8	16.1
7	Prakash(C)	15.1	19.9	18.3	12.3	13.5	11.1	16.5	18.3	13.5	18.4	12.4	15.4
	Loc. Mean	**19.9**	**21.1**	**20.4**	**12.5**	**15.0**	**11.2**	**16.6**	**21.2**	**16.0**	**24.4**	**12.8**	**17.4**
	C.D. (5%)	2.68	1.16	3.34	1.46	0.53	0.16	0.74	0.77	2.24	2.72	2.34	1.54
	C.V. (%)	7.58	3.09	9.19	6.54	2.00	0.83	2.52	2.05	7.84	6.26	10.30	10.42
	F (Prob)	0.00	0.00	0.00	0.31	0.00	0.76	0.03	0.00	0.00	0.00	0.07	0.00

		GRAIN SHELLING %											PZ
													ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	RAHU	Mean
1	AH-7006	79.7	79.5	84.2	85.3	80.5	79.3	78.3	82.1	79.7	77.6	84.5	81.0
2	JKMH 4222	78.2	80.5	91.1	86.4	81.5	71.5	80.1	80.7	80.9	72.8	87.5	81.0
3	Seed Tech 2324 (Filler)	77.6	79.4	82.3	84.9	77.5	75.4	82.1	80.2	79.1	76.0	82.0	79.7
4	PMH1(Filler)	77.0	75.7	81.8	84.4	77.0	78.3	82.3	78.0	78.7	77.0	81.5	79.2
5	PMH4 (Filler)	81.2	82.6	87.0	88.6	82.0	80.5	79.3	77.3	81.6	73.5	86.5	81.8
	CHECKS												
6	PMH-5(C)	78.3	81.7	82.6	82.3	79.1	76.6	78.1	77.6	79.8	76.8	83.5	79.7
7	Prakash(C)	82.6	79.4	82.0	84.7	81.1	77.0	75.1	78.0	82.5	75.8	85.0	80.3
	Loc. Mean	**79.2**	**79.8**	**84.4**	**85.2**	**79.8**	**76.9**	**79.3**	**79.1**	**80.3**	**75.6**	**84.4**	**80.4**
	C.D. (5%)	3.13	3.17	2.42	4.64	0.70	1.13	1.32	0.55	4.21	0.00	1.24	1.85
	C.V. (%)	2.22	2.23	1.61	3.06	0.49	0.83	0.94	0.39	2.95	0.00	0.83	2.71
	F (Prob)	0.02	0.01	0.00	0.22	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.08

TABLE No. 14 (Contd.)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	RAHU	ZN 4 Mean
1	AH-7006	55.0	63.3	68.4	48.6	85.1	56.1	59.7	66.0	55.6	43.1	62.2	60.3
2	JKMH 4222	60.6	58.6	67.4	45.8	85.1	58.3	61.1	66.3	57.2	43.3	68.1	61.1
3	Seed Tech 2324 (Filler)	45.6	45.6	53.5	43.1	84.0	56.1	60.8	66.3	56.7	42.8	66.7	56.5
4	PMH1(Filler)	51.4	51.9	67.4	37.5	81.6	58.6	61.1	66.7	58.3	43.1	69.4	58.8
5	PMH4 (Filler)	53.6	55.6	76.7	46.2	84.0	59.7	61.1	66.0	59.4	43.5	63.9	60.9
	CHECKS												
6	PMH-5(C)	51.7	46.1	55.2	46.9	85.1	57.2	58.7	65.6	56.7	43.3	66.0	57.5
7	Prakash(C)	43.6	33.1	57.3	31.6	84.4	58.6	40.6	66.3	58.9	42.6	68.4	53.2
	Loc. Mean	**51.6**	**50.6**	**63.7**	**42.8**	**84.2**	**57.8**	**57.6**	**66.2**	**57.5**	**43.1**	**66.4**	**58.3**
	C.D. (5%)	5.62	3.51	12.08	7.91	3.92	2.14	2.73	1.19	2.71	1.36	6.43	4.04
	C.V. (%)	6.12	3.90	10.66	10.39	2.62	2.08	2.66	1.01	2.64	1.77	5.44	8.12
	F (Prob)	0.00	0.00	0.01	0.01	0.50	0.02	0.00	0.61	0.08	0.76	0.24	0.00

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	RAHU	PZ ZN 4 Mean
1	AH-7006	52.0	53.7	58.0	59.0	48.0	51.7	44.3	45.7	51.0	51.0	54.3	51.7
2	JKMH 4222	51.3	51.0	57.0	59.5	49.0	51.0	45.3	46.0	51.0	50.3	53.0	51.3
3	Seed Tech 2324 (Filler)	56.3	58.7	60.0	61.0	50.0	55.7	46.3	46.3	53.3	54.0	56.7	54.4
4	PMH1(Filler)	56.0	56.7	60.0	62.0	52.0	52.7	48.0	47.3	52.0	50.7	56.3	54.0
5	PMH4 (Filler)	54.7	57.0	57.0	58.5	48.7	47.0	45.7	45.3	46.3	49.7	55.7	51.4
	CHECKS												
6	PMH-5(C)	51.0	49.0	56.0	56.0	48.0	46.0	44.0	43.3	44.7	49.0	52.0	49.0
7	Prakash(C)	53.7	56.0	58.0	57.5	48.7	47.7	45.3	46.0	47.0	47.0	53.0	50.9
	Loc. Mean	**53.6**	**54.6**	**58.0**	**59.1**	**49.2**	**50.2**	**45.6**	**45.7**	**49.3**	**50.2**	**54.4**	**51.8**
	C.D. (5%)	1.49	1.20	2.13	1.40	0.92	3.69	0.94	0.90	1.86	1.62	2.80	1.27
	C.V. (%)	1.56	1.23	2.06	1.33	1.06	4.13	1.16	1.10	2.11	1.81	2.90	2.87
	F (Prob)	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00

TABLE No. 14 (Contd.)

		DAYS TO 50% SILKING											PZ
													ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	RAHU	Mean
1	AH-7006	54.0	55.7	59.3	60.0	50.7	54.7	48.3	48.7	53.7	56.0	55.3	54.2
2	JKMH 4222	53.3	53.0	59.3	60.5	50.7	54.7	48.7	49.0	54.3	55.7	54.0	53.9
3	Seed Tech 2324 (Filler)	58.3	60.3	60.7	62.0	52.7	61.3	49.7	48.3	57.7	59.0	57.7	57.1
4	PMH1(Filler)	58.0	59.0	61.3	63.0	54.0	58.0	51.3	49.3	54.3	56.0	57.3	56.5
5	PMH4 (Filler)	56.7	59.3	58.3	59.5	52.7	53.7	49.0	48.7	53.0	55.3	56.7	54.8
	CHECKS												
6	PMH-5(C)	53.0	50.3	56.7	57.0	49.7	50.7	47.7	47.3	49.3	55.3	53.0	51.8
7	Prakash(C)	55.7	57.7	59.3	58.5	50.0	54.0	48.3	49.0	50.3	52.0	54.0	53.5
	Loc. Mean	**55.6**	**56.5**	**59.3**	**60.1**	**51.5**	**55.3**	**49.0**	**48.6**	**53.2**	**55.6**	**55.4**	**54.6**
	C.D. (5%)	1.49	1.27	2.20	1.40	1.74	4.05	1.23	0.92	1.81	2.10	2.80	1.23
	C.V. (%)	1.50	1.26	2.09	1.31	1.90	4.12	1.41	1.07	1.92	2.12	2.84	2.65
	F (Prob)	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.00

		DAYS TO 75% DRY HUSK										PZ
												ZN 4
S.No.	PEDIGREE	HYDE	KARI	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	RAHU	Mean
1	AH-7006	81.3	90.7	104.5	90.7	93.0	89.7	87.7	93.0	101.7	87.3	92.0
2	JKMH 4222	80.3	83.7	104.0	92.0	92.3	89.3	88.7	91.7	99.0	86.0	90.7
3	Seed Tech 2324 (Filler)	87.0	99.0	108.5	96.3	93.3	90.7	88.0	95.0	104.0	91.7	95.4
4	PMH1(Filler)	86.3	99.0	106.0	94.0	94.0	92.3	88.7	92.7	101.0	87.3	94.1
5	PMH4 (Filler)	84.7	98.3	105.5	93.7	92.0	90.0	88.7	91.7	100.3	88.3	93.3
	CHECKS											
6	PMH-5(C)	79.3	80.0	101.5	91.3	92.0	89.0	86.3	90.0	97.3	88.0	89.5
7	Prakash(C)	83.0	91.0	101.5	90.0	92.7	89.0	88.3	91.3	96.3	87.0	91.0
	Loc. Mean	**83.1**	**91.7**	**104.5**	**92.6**	**92.8**	**90.0**	**88.0**	**92.2**	**100.0**	**88.0**	**92.3**
	C.D. (5%)	2.68	2.05	0.51	3.12	2.95	2.90	1.01	2.20	2.13	6.21	2.13
	C.V. (%)	1.82	1.26	0.28	1.90	1.79	1.81	0.65	1.34	1.20	3.97	2.58
	F (Prob)	0.00	0.00	0.00	0.01	0.73	0.23	0.00	0.01	0.00	0.59	0.00

TABLE No. 14 (Contd.)

		PLANT HEIGHT(cm)											PZ
													ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	RAHU	Mean
1	AH-7006	185.7	156.0	192.7	152.4	180.0	79.0	134.4	180.4	220.1	146.3	151.7	161.7
2	JKMH 4222	233.0	176.3	234.7	182.5	227.7	93.7	189.0	197.7	246.5	199.7	228.3	200.8
3	Seed Tech 2324 (Filler)	206.7	165.3	215.3	170.3	188.7	96.3	144.6	177.3	249.1	153.0	195.0	178.3
4	PMH1(Filler)	234.7	190.0	251.0	179.8	210.3	97.3	156.8	181.6	246.5	168.7	216.7	193.9
5	PMH4 (Filler)	193.3	164.3	203.7	165.5	183.0	92.0	145.1	172.4	220.6	157.0	173.3	170.0
	CHECKS												
6	PMH-5(C)	195.3	162.3	200.3	132.6	164.3	96.3	140.6	163.8	210.9	150.0	191.7	164.4
7	Prakash(C)	136.3	117.3	152.7	106.2	162.0	79.7	116.3	137.7	167.7	185.7	136.7	136.2
	Loc. Mean	**197.9**	**161.7**	**207.2**	**155.6**	**188.0**	**90.6**	**146.7**	**173.0**	**223.0**	**165.8**	**184.8**	**172.2**
	C.D. (5%)	10.70	14.31	12.78	27.29	34.17	4.33	8.87	5.19	11.48	11.07	33.53	12.23
	C.V. (%)	3.04	4.97	3.47	9.86	10.22	2.68	3.40	1.68	2.89	3.75	10.20	8.33
	F (Prob)	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

		EAR HEIGHT(cm)											PZ
													ZN 4
S.No.	PEDIGREE	HYDE	KARI	DHAR	VRDC	MAND	NIPH	VAGA	COIM	DHUL	PARB	RAHU	Mean
1	AH-7006	68.0	58.0	88.7	62.2	92.3	47.0	76.6	83.9	79.3	69.7	60.0	71.4
2	JKMH 4222	77.3	71.7	88.7	74.6	108.3	46.3	93.0	95.1	91.5	95.0	96.7	85.3
3	Seed Tech 2324 (Filler)	86.7	62.0	108.3	77.4	117.7	47.0	85.5	88.0	97.9	85.0	93.3	86.3
4	PMH1(Filler)	100.0	87.7	120.3	85.1	111.7	47.3	94.5	102.6	98.1	80.7	103.3	93.8
5	PMH4 (Filler)	67.7	65.7	88.7	72.8	98.7	46.3	81.7	90.4	90.5	74.0	76.7	77.5
	CHECKS												
6	PMH-5(C)	68.3	64.7	90.7	72.8	97.0	46.3	75.9	76.1	96.5	66.7	78.3	75.7
7	Prakash(C)	38.3	37.0	71.0	52.3	81.0	46.7	60.5	72.7	79.0	91.0	50.0	61.8
	Loc. Mean	**72.3**	**63.8**	**93.8**	**71.0**	**101.0**	**46.7**	**81.1**	**87.0**	**90.4**	**80.3**	**79.8**	**78.8**
	C.D. (5%)	8.53	7.41	11.59	17.58	10.88	1.73	7.73	14.62	8.85	7.30	16.55	7.13
	C.V. (%)	6.63	6.53	6.95	13.91	6.06	2.08	5.36	9.45	5.50	5.11	11.66	10.60
	F (Prob)	0.00	0.00	0.00	0.03	0.00	0.78	0.00	0.01	0.00	0.00	0.00	0.00

TABLE No. 15 PERFORMANCE OF LATE MATURITY EXPERIMENTAL HYBRIDS AT UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA, JHABHUA, BHILODA, DAHOD, RAIPUR, JAGADALPUR, KOTA, CHITRAKOOT IN TRIAL No. TR65,69 Z5 (AVT-I,II LATE - CWZ) DURING KHARIF 2016

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																				CWZ ZN 5		OV'L	
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	BHIL	R	DAHO	R	RAIP	R	JAGA	R	CHIT	R	MEAN	R	MEAN	R
1	CMH12-686	7023	7	7023	7	8720	7	4992	9	5041	8	3160	9	4278	8	3806	7	4964	9	5937	8	8100	9	5731	8	5731	8
2	DKC9164 (IP9002)	8054	1	8054	1	8901	6	9092	2	7395	2	7307	1	6679	2	5737	1	6500	1	8429	2	8608	5	7705	1	7705	1
3	SYN516753	7079	6	7079	6	9736	3	7448	5	6526	5	6782	2	5284	4	4385	4	5398	7	7791	5	8479	6	6908	4	6908	4
4	DKC9151(IN8902)	7213	5	7213	5	9537	4	8167	3	8058	1	4804	4	5114	5	5115	3	6461	2	8137	4	9063	3	7171	3	7171	3
5	ADV 0990296	7239	4	7239	4	8961	5	7968	4	5314	7	3902	8	6181	3	4382	5	6004	4	8798	1	8242	8	6748	5	6748	5
6	KH-2192	7254	3	7254	3	11899	1	10091	1	7330	3	4245	7	6724	1	5451	2	6315	3	8218	3	9686	1	7679	2	7679	2
	CHECKS																										
7	PMH 1 (C)	5272	8	5272	8	10035	2	6765	7	6409	6	4684	6	5052	6	3718	9	5221	8	5906	9	8357	7	6063	7	6063	7
8	Seed tech 2324(C)	7369	2	7369	2	8205	8	7249	6	7174	4	4951	3	4649	7	4376	6	5927	6	6929	6	8805	4	6637	6	6637	6
9	Bio 9681(C)	4418	9	4418	9	7392	9	5827	8	4554	9	4716	5	3004	9	3739	8	5930	5	5971	7	9229	2	5382	9	5382	9
	Location Mean	**6769**		**6769**		**9265**		**7511**		**6422**		**4950**		**5218**		**4523**		**5858**		**7346**		**8730**		**6669**		**6669**	
	C.D. (5%)	948		963		881		1107		219		780		1678		1216		902		930		2139		1069		1069	
	C.V. (%)	8.05		8.18		5.46		8.47		1.96		9.05		18.48		15.45		8.85		7.28		14.08		-		-	
	F (Prob)	0		0		0		0		0		0		0.004		0.011		0.009		0		0.782					
	Plot Size	14.4		14.4		18		18		14.4		18		16.8		18		18		18		10.8		-		-	
	AGRONOMY DATA																										
	Sowing Date	2-07		27-06		17-07		4-07		8-07		28-06		7-05		-		19-07		4-07		24-07		-		-	
	Harvest Date	19-10		19-10		2-12		-		25-10		14-10		21-10		-		-		-		11-10		-		-	
	Irrigation Nos	1		-		-		-		-		-		2		-		-		-		2		-		-	
	Ferilizer Applied N	120		150		120		120		120		120		120		-		120		120		100		-		-	
	Ferilizer Applied P	90		80		60		60		60		60		60		-		60		60		60		-		-	
	Ferilizer Applied K	-		-		40		40		-		60		-		-		40		40		40		-		-	

Location Kota: Rejected due to low trial mean yield (1615 kg/ha) in comparison to state average yield

TABLE No. 15 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 1 (C)																		CWZ ZN 5 MEAN	R	OV'L MEAN	R
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	BHIL	R	DAHO	R	RAIP	R	JAGA	R	CHIT	R				
1	CMH12-686	33.2		33.2		-		-		-		-		-		2.4		-		0.5		-		-		-	
2	DKC9164 (IP9002)	52.8		52.8		-		34.4		15.4		56		32.2		54.3		24.5		42.7		3		27.1		27.1	
3	SYN516753	34.3		34.3		-		10.1		1.8		44.8		4.6		17.9		3.4		31.9		1.5		13.9		13.9	
4	DKC9151(IN8902)	36.8		36.8		-		20.7		25.7		2.6		1.2		37.6		23.7		37.8		8.5		18.3		18.3	
5	ADV 0990296	37.3		37.3		-		17.8		-		-		22.4		17.9		15		49		-		11.3		11.3	
6	KH-2192	37.6		37.6		18.6		49.2		14.4		-		33.1		46.6		20.9		39.2		15.9		26.7		26.7	
	CHECKS																										
7	PMH 1 (C)	-		-		-		-		-		-		-		-		-		-		-		-		-	
8	Seed tech 2324(C)	39.8		39.8		-		7.2		11.9		5.7		-		17.7		13.5		17.3		5.4		9.5		9.5	
9	Bio 9681(C)	-		-		-		-		-		0.7		-		0.6		13.6		1.1		10.4		-		-	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seed tech 2324(C)																		CWZ ZN 5 MEAN	R	OV'L MEAN	R
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	BHIL	R	DAHO	R	RAIP	R	JAGA	R	CHIT	R				
1	CMH12-686	-		-		6.3		-		-		-		-		-		-		-		-		-		-	
2	DKC9164 (IP9002)	9.3		9.3		8.5		25.4		3.1		47.6		43.7		31.1		9.7		21.6		-		16.1		16.1	
3	SYN516753	-		-		18.7		2.8		-		37		13.7		0.2		-		12.4		-		4.1		4.1	
4	DKC9151(IN8902)	-		-		16.2		12.7		12.3		-		10		16.9		9		17.4		2.9		8.1		8.1	
5	ADV 0990296	-		-		9.2		9.9		-		-		33		0.1		1.3		27		-		1.7		1.7	
6	KH-2192	-		-		45		39.2		2.2		-		44.6		24.5		6.5		18.6		10		15.7		15.7	
	CHECKS																										
7	PMH 1 (C)	-		-		22.3		-		-		-		8.7		-		-		-		-		-		-	
8	Seed tech 2324(C)	-		-		-		-		-		-		-		-		-		-		-		-		-	
9	Bio 9681(C)	-		-		-		-		-		-		-		-		0		-		4.8		-		-	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Bio 9681(C)																		CWZ ZN 5 MEAN	R	OV'L MEAN	R
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	BHIL	R	DAHO	R	RAIP	R	JAGA	R	CHIT	R				
1	CMH12-686	59		59		18		-		10.7		-		42.4		1.8		-		-		-		6.5		6.5	
2	DKC9164 (IP9002)	82.3		82.3		20.4		56		62.4		55		122		53.4		9.6		41.2		-		43.2		43.2	
3	SYN516753	60.3		60.3		31.7		27.8		43.3		43.8		75.9		17.3		-		30.5		-		28.4		28.4	
4	DKC9151(IN8902)	63.3		63.3		29		40.2		76.9		1.9		70.2		36.8		9		36.3		-		33.3		33.3	
5	ADV 0990296	63.9		63.9		21.2		36.7		16.7		-		106		17.2		1.3		47.3		-		25.4		25.4	
6	KH-2192	64.2		64.2		61		73.2		61		-		124		45.8		6.5		37.6		5		42.7		42.7	
	CHECKS																										
7	PMH 1 (C)	19.3		19.3		35.8		16.1		40.7		-		68.2		-		-		-		-		12.7		12.7	
8	Seed tech 2324(C)	66.8		66.8		11		24.4		57.5		5		54.7		17		-		16		-		23.3		23.3	
9	Bio 9681(C)	-		-		-		-		-		-		-		-		-		-		-		-		-	

Table No. 15 (Contd.)

		MOISTURE % AT HARVEST											CWZ ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	CMH12-686	17.0	17.0	16.6	16.4	15.0	17.4	29.5	15.4	15.4	14.4	20.4	17.7
2	DKC9164 (IP9002)	17.0	17.0	14.3	16.4	16.0	19.3	28.6	16.1	15.5	14.4	20.9	17.8
3	SYN516753	16.7	16.7	17.3	18.4	14.9	22.1	23.9	15.0	16.9	15.9	19.8	18.0
4	DKC9151(IN8902)	17.1	17.1	13.0	18.7	15.2	18.2	29.3	16.1	17.2	16.1	20.2	18.0
5	ADV 0990296	17.3	17.3	16.5	17.3	16.3	19.3	27.0	18.3	16.2	15.2	19.1	18.2
6	KH-2192	16.7	16.7	15.2	17.5	15.2	17.2	23.0	15.6	16.2	15.5	19.2	17.1
	CHECKS												
7	PMH 1 (C)	16.6	16.6	16.4	16.7	15.2	18.1	25.7	15.8	15.6	14.8	19.9	17.4
8	Seed tech 2324(C)	17.3	17.3	14.5	16.8	16.9	19.1	25.3	14.6	15.5	14.8	19.7	17.4
9	Bio 9681(C)	17.2	17.2	12.7	16.1	16.3	15.5	22.8	13.0	15.4	14.9	20.5	16.5
	Loc. Mean	**17.0**	**17.0**	**15.2**	**17.1**	**15.7**	**18.5**	**26.1**	**15.5**	**16.0**	**15.1**	**20.0**	**17.6**
	C.D. (5%)	0.78	0.78	1.62	2.59	0.26	2.57	2.12	0.24	1.99	2.11	1.96	1.02
	C.V. (%)	2.67	2.67	6.16	8.75	0.94	8.05	4.69	0.91	7.20	8.09	5.68	6.86
	F (Prob)	0.48	0.48	0.00	0.41	0.00	0.01	0.00	0.00	0.45	0.65	0.61	0.06

		GRAIN SHELLING %											CWZ ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	CMH12-686	78.4	78.4	83.9	79.9	85.4	65.2	80.5	82.0	78.9	79.8	74.8	78.8
2	DKC9164 (IP9002)	78.6	78.6	85.4	80.4	82.3	79.7	81.8	80.6	78.3	78.2	73.2	79.7
3	SYN516753	78.5	78.5	83.3	81.2	84.5	76.2	81.3	82.3	79.3	77.9	72.4	79.6
4	DKC9151(IN8902)	77.4	77.4	90.0	80.9	86.8	77.0	79.8	83.9	79.2	78.5	73.0	80.4
5	ADV 0990296	78.5	78.5	87.1	80.1	89.7	74.1	86.8	85.3	78.9	80.3	69.0	80.8
6	KH-2192	77.8	77.8	88.4	81.0	80.4	74.9	83.0	84.5	79.0	78.5	74.7	80.0
	CHECKS												
7	PMH 1 (C)	78.2	78.2	86.5	80.7	84.1	77.0	81.7	82.1	79.6	79.8	71.2	79.9
8	Seed tech 2324(C)	78.0	78.0	82.8	80.8	85.4	79.7	83.7	85.2	78.5	78.3	70.7	80.1
9	Bio 9681(C)	70.7	70.7	87.7	79.9	80.5	79.5	79.9	85.2	79.1	78.8	70.7	78.4
	Loc. Mean	**77.3**	**77.3**	**86.1**	**80.5**	**84.3**	**75.9**	**82.1**	**83.5**	**79.0**	**78.9**	**72.2**	**79.7**
	C.D. (5%)	1.41	1.41	1.88	1.54	0.83	5.36	3.64	1.92	2.30	2.43	3.66	1.99
	C.V. (%)	1.06	1.06	1.26	1.10	0.57	4.08	2.56	1.33	1.68	1.78	2.93	2.95
	F (Prob)	0.00	0.00	0.00	0.57	0.00	0.00	0.02	0.00	0.97	0.42	0.05	0.41

Table No. 15 (Contd.)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	CWZ ZN 5 Mean
1	CMH12-686	64.6	64.6	52.8	50.4	49.5	25.2	53.2	31.7	61.3	50.6	73.8	52.5
2	DKC9164 (IP9002)	66.9	66.9	60.9	66.5	59.5	43.0	63.7	46.7	65.4	66.9	92.6	63.5
3	SYN516753	63.2	63.2	66.7	58.0	50.7	41.1	61.5	42.8	62.6	63.5	95.4	60.8
4	DKC9151(IN8902)	64.6	64.6	66.7	64.4	63.9	40.0	68.5	47.2	65.4	64.1	92.9	63.8
5	ADV 0990296	61.1	61.1	64.8	62.4	64.6	34.4	64.1	45.4	63.5	66.5	90.7	61.7
6	KH-2192	64.6	64.6	65.4	67.6	67.4	35.2	68.7	46.1	62.8	66.5	88.9	63.4
	CHECKS												
7	PMH 1 (C)	63.4	63.4	62.0	53.9	59.0	38.1	58.3	44.1	61.5	51.5	92.6	58.9
8	Seed tech 2324(C)	67.4	67.4	64.1	57.2	67.1	40.9	69.2	44.4	63.0	59.8	94.1	63.2
9	Bio 9681(C)	60.9	60.9	64.3	58.3	57.9	44.8	65.1	47.0	62.8	60.0	90.7	61.2
	Loc. Mean	**64.1**	**64.1**	**63.1**	**59.9**	**60.0**	**38.1**	**63.6**	**43.9**	**63.1**	**61.0**	**90.2**	**61.0**
	C.D. (5%)	5.35	5.35	5.09	4.81	3.72	4.98	9.94	4.56	2.71	3.97	12.83	3.10
	C.V. (%)	4.82	4.82	4.67	4.64	3.58	7.55	9.04	5.99	2.48	3.76	8.22	5.99
	F (Prob)	0.21	0.21	0.00	0.00	0.00	0.00	0.05	0.00	0.05	0.00	0.08	0.00

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	CWZ ZN 5 Mean
1	CMH12-686	57.7	57.7	62.0	55.7	51.0	52.0	53.3	57.7	56.3	55.7	62.3	56.5
2	DKC9164 (IP9002)	57.7	57.7	60.7	56.7	51.7	51.3	53.0	57.0	60.7	57.3	58.3	56.5
3	SYN516753	57.3	57.3	62.3	58.7	54.3	53.0	53.3	56.7	62.0	58.3	59.7	57.5
4	DKC9151(IN8902)	57.3	57.3	62.0	54.7	53.3	52.3	53.7	55.0	61.3	56.3	61.0	56.8
5	ADV 0990296	56.7	56.7	61.7	55.7	53.3	51.7	52.0	56.3	60.7	58.3	60.3	56.7
6	KH-2192	57.7	57.7	59.3	54.7	51.7	50.0	52.7	53.3	63.7	56.3	60.3	56.1
	CHECKS												
7	PMH 1 (C)	55.7	55.7	59.7	55.7	51.0	50.7	52.3	55.3	57.3	55.0	61.0	55.4
8	Seed tech 2324(C)	57.3	57.3	60.3	55.7	52.3	50.7	52.0	56.3	58.7	56.0	61.0	56.2
9	Bio 9681(C)	55.0	55.0	59.0	51.3	48.3	47.7	51.0	47.7	57.0	53.3	61.0	53.3
	Loc. Mean	**56.9**	**56.9**	**60.8**	**55.4**	**51.9**	**51.0**	**52.6**	**55.0**	**59.7**	**56.3**	**60.6**	**56.1**
	C.D. (5%)	2.49	2.49	0.68	0.33	3.53	1.45	1.92	1.63	2.73	1.09	2.23	1.11
	C.V. (%)	2.52	2.52	0.64	0.35	3.93	1.64	2.11	1.71	2.64	1.12	2.13	2.33
	F (Prob)	0.28	0.28	0.00	0.00	0.08	0.00	0.16	0.00	0.00	0.00	0.09	0.00

Table No. 15 (Contd.)

		DAYS TO 50% SILKING											CWZ ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	CMH12-686	60.7	60.7	62.3	59.3	53.0	55.0	58.3	60.7	59.0	58.7	66.3	59.5
2	DKC9164 (IP9002)	60.7	60.7	61.7	59.0	53.7	53.3	58.0	60.7	63.7	59.7	61.7	59.3
3	SYN516753	60.3	60.3	64.0	60.7	56.3	55.7	58.7	61.0	64.3	61.0	63.0	60.5
4	DKC9151(IN8902)	60.3	60.3	63.3	57.7	55.3	55.0	59.0	59.3	64.0	59.7	65.0	59.9
5	ADV 0990296	59.7	59.7	63.7	58.7	55.3	54.3	56.3	60.7	63.3	61.3	62.3	59.6
6	KH-2192	60.7	60.7	59.3	57.7	53.7	52.3	57.3	58.0	66.3	58.7	63.0	58.9
	CHECKS												
7	PMH 1 (C)	58.7	58.7	60.3	58.3	53.0	52.7	57.3	61.0	60.7	58.0	65.0	58.5
8	Seed tech 2324(C)	60.3	60.3	62.3	58.7	54.3	53.3	57.0	60.0	60.7	59.7	64.3	59.2
9	Bio 9681(C)	58.0	58.0	59.0	54.0	50.3	49.7	56.0	53.7	59.0	56.7	64.3	56.2
	Loc. Mean	**59.9**	**59.9**	**61.8**	**58.2**	**53.9**	**53.5**	**57.6**	**59.4**	**62.3**	**59.3**	**63.9**	**59.1**
	C.D. (5%)	2.49	2.49	0.87	0.76	3.53	1.69	2.54	1.41	2.97	1.41	2.51	1.10
	C.V. (%)	2.40	2.40	0.81	0.76	3.78	1.83	2.55	1.37	2.75	1.37	2.27	2.20
	F (Prob)	0.28	0.28	0.00	0.00	0.08	0.00	0.24	0.00	0.00	0.00	0.02	0.00

		DAYS TO 75% DRY HUSK											CWZ ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	CMH12-686	92.7	92.7	99.3	94.3	77.7	91.0	80.3	129.0	94.3	99.7	107.0	96.2
2	DKC9164 (IP9002)	93.3	93.3	102.3	97.7	76.3	92.0	85.3	130.3	95.0	102.7	103.7	97.5
3	SYN516753	92.3	92.3	99.7	98.0	80.7	91.3	84.0	124.7	98.0	104.0	102.3	97.0
4	DKC9151(IN8902)	93.0	93.0	101.3	97.7	79.7	92.7	84.7	125.0	97.7	105.0	105.0	97.7
5	ADV 0990296	92.0	92.0	101.7	98.0	78.7	92.0	85.3	129.3	97.0	105.3	103.7	97.7
6	KH-2192	92.3	92.3	98.7	95.0	78.0	91.7	81.7	127.0	95.3	103.3	106.7	96.5
	CHECKS												
7	PMH 1 (C)	91.3	91.3	97.3	91.7	77.3	89.7	80.0	125.3	92.7	96.7	103.7	94.3
8	Seed tech 2324(C)	92.7	92.7	98.7	94.0	80.0	90.7	81.0	125.7	89.0	101.0	105.0	95.5
9	Bio 9681(C)	89.7	89.7	96.3	91.0	76.3	90.3	80.7	118.0	87.0	97.0	104.0	92.7
	Loc. Mean	**92.1**	**92.1**	**99.5**	**95.3**	**78.3**	**91.3**	**82.6**	**126.0**	**94.0**	**101.6**	**104.6**	**96.1**
	C.D. (5%)	2.89	2.89	1.18	0.88	4.82	2.17	5.46	3.48	2.88	1.32	3.28	1.50
	C.V. (%)	1.81	1.81	0.69	0.53	3.55	1.37	3.82	1.60	1.77	0.75	1.81	1.84
	F (Prob)	0.32	0.32	0.00	0.00	0.50	0.18	0.23	0.00	0.00	0.00	0.13	0.00

Table No. 15 (Contd.)

		PLANT HEIGHT(cm)											CWZ
													ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	CMH12-686	196.7	196.7	171.0	246.3	165.0	166.3	169.0	161.9	238.3	192.6	183.8	189.8
2	DKC9164 (IP9002)	183.3	183.3	183.7	232.8	152.7	181.9	156.7	156.8	231.7	188.9	188.2	185.4
3	SYN516753	191.7	191.7	187.7	236.6	148.3	184.2	158.3	162.1	254.3	190.8	187.0	190.2
4	DKC9151(IN8902)	198.3	198.3	208.7	273.1	168.3	181.6	171.7	169.3	261.5	209.5	185.3	202.3
5	ADV 0990296	171.7	171.7	170.7	217.5	173.3	145.1	152.7	127.6	223.0	165.3	186.9	173.2
6	KH-2192	198.3	198.3	201.3	258.0	139.7	168.5	156.0	156.5	239.0	189.4	192.9	190.7
	CHECKS												
7	PMH 1 (C)	175.0	175.0	208.0	253.5	167.7	195.7	166.7	156.2	246.0	199.7	176.1	192.7
8	Seed tech 2324(C)	198.3	198.3	173.0	230.9	144.3	166.1	152.0	162.4	232.9	174.8	183.8	183.4
9	Bio 9681(C)	171.7	171.7	193.3	229.1	166.7	180.6	146.7	157.2	253.7	188.5	185.2	185.9
	Loc. Mean	**187.2**	**187.2**	**188.6**	**242.0**	**158.4**	**174.4**	**158.9**	**156.7**	**242.3**	**188.8**	**185.5**	**188.2**
	C.D. (5%)	33.50	33.50	33.24	16.65	28.14	9.37	16.99	9.88	18.76	14.54	14.81	8.69
	C.V. (%)	10.34	10.34	10.18	3.98	10.26	3.10	6.18	3.64	4.47	4.45	4.61	5.44
	F (Prob)	0.40	0.40	0.13	0.00	0.17	0.00	0.08	0.00	0.01	0.00	0.59	0.00

		EAR HEIGHT(cm)											CWZ
													ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	CMH12-686	101.7	101.7	95.3	92.3	72.7	83.2	78.0	70.3	96.8	61.0	71.0	84.0
2	DKC9164 (IP9002)	88.3	88.3	91.0	99.1	65.0	91.0	75.7	71.2	95.8	60.2	71.3	81.5
3	SYN516753	90.0	90.0	89.0	85.4	74.3	92.1	70.7	69.4	102.5	61.1	72.0	81.5
4	DKC9151(IN8902)	100.0	100.0	94.0	100.7	79.3	90.8	76.3	69.3	104.9	64.9	73.8	86.7
5	ADV 0990296	76.7	76.7	65.7	78.1	79.3	72.6	67.0	53.5	88.5	57.1	73.5	71.7
6	KH-2192	93.3	93.3	76.7	89.3	61.7	84.2	65.7	63.1	86.3	60.4	71.6	76.9
	CHECKS												
7	PMH 1 (C)	91.7	91.7	96.3	106.1	75.0	97.9	86.0	71.3	107.2	62.3	70.2	86.9
8	Seed tech 2324(C)	93.3	93.3	89.3	96.0	68.7	83.0	78.0	68.3	94.5	59.8	71.2	81.4
9	Bio 9681(C)	91.7	91.7	78.0	62.4	73.7	90.3	58.7	64.3	91.2	60.4	72.0	75.8
	Loc. Mean	**91.9**	**91.9**	**86.1**	**89.9**	**72.2**	**87.2**	**72.9**	**66.7**	**96.4**	**60.8**	**71.8**	**80.7**
	C.D. (5%)	13.97	13.97	13.57	9.42	19.83	4.67	16.68	7.13	12.76	4.52	3.40	5.05
	C.V. (%)	8.79	8.79	9.10	6.05	15.87	3.09	13.22	6.17	7.65	4.30	2.73	7.38
	F (Prob)	0.07	0.07	0.00	0.00	0.59	0.00	0.09	0.00	0.03	0.13	0.44	0.00

TABLE No. 16 PERFORMANCE OF MEDIUM MATURITY EXPERIMENTAL HYBRIDS AT UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA, JHABHUA, BHILODA, DAHOD, RAIPUR, JAGADALPUR, KOTA, CHITRAKOOT IN TRIAL No. TR66Z5 (AVT-I MEDIUM-CWZ) DURING KHARIF 2016

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																				CWZ ZN 5		OV'L	
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	BHIL	R	DAHO	R	RAIP	R	JAGA	R	CHIT	R	MEAN	R	MEAN	R
1	BL 106	4370	5	4370	5	8222	4	5966	6	7250	3	5006	1	5571	2	4816	2	7103	1	7309	2	7645	5	6148	3	6148	3
2	JH 13347	5779	1	5779	1	9279	1	7278	2	9232	1	4992	2	5805	1	5349	1	7099	2	8568	1	7522	6	6971	1	6971	1
3	JH 13348	4963	4	4963	4	7451	6	6504	5	6899	4	4697	3	5253	6	3701	6	4369	6	7175	4	7841	3	5801	5	5801	5
4	LMH 615	4964	3	4964	3	8608	2	7390	1	8355	2	4376	4	5520	3	4695	3	5967	4	7270	3	7906	2	6365	2	6365	2
	CHECKS																										
5	Bio 9637(C)	4154	6	4154	6	8309	3	6884	3	5738	5	3673	6	5347	5	3988	5	5601	5	5279	6	7679	4	5528	6	5528	6
6	HM9(C)	3729	7	3729	7	5958	7	2998	7	2877	7	2408	7	3300	7	2634	7	2904	7	4468	7	7501	7	3864	7	3864	7
7	PMH4(C)	5144	2	5144	2	7694	5	6841	4	4788	6	3956	5	5478	4	4045	4	6808	3	6676	5	8218	1	5890	4	5890	4
	Location Mean	**4729**		**4729**		**7932**		**6266**		**6449**		**4158**		**5182**		**4175**		**5693**		**6678**		**7759**		**5795**		**5795**	
	C.D. (5%)	775		1038		1414		788		287		694		1140		1208		1036		1132		1050		960		960	
	C.V. (%)	9.12		12.21		9.92		7		2.48		9.29		12.24		16.1		10.12		9.43		7.53		-		-	
	F (Prob)	0.014		0.014		0.004		0		0		0.001		0.003		0.005		0		0		0.721					
	Plot Size	9.6		9.6		12		12		9.6		12		11.2		12		12		12		7.2		-		-	
	AGRONOMY DATA																										
	Sowing Date	2-07		27-06		17-07		4-07		8-07		28-06		7-05		-		19-07		8-07		24-07		-		-	
	Harvest Date	21-10		19-10		2-12		-		25-10		14-10		21-10		-		-		-		27-10		-		-	
	Irrigation Nos	1		-		-		-		-		-		2		-		-		-		2		-		-	
	Ferilizer Applied N	120		150		120		120		120		120		120		-		120		120		100		-		-	
	Ferilizer Applied P	90		80		60		60		60		60		60		-		60		60		60		-		-	
	Ferilizer Applied K	-		-		40		40		-		60		-		-		40		40		40		-		-	

Location Kota: Rejected due to low trial mean yield (1372 kg/ha) in comparison to state average yield

TABLE No. 16 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Bio 9637(C)																		CWZ ZN 5		OV'L	
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	BHIL	R	DAHO	R	RAIP	R	JAGA	R	CHIT	R	MEAN	R	MEAN	R
1	BL 106	5.2		5.2		-		-		26.3		36.3		4.2		20.8		26.8		38.5		-		11.2		11.2	
2	JH 13347	39.1		39.1		11.7		5.7		60.9		35.9		8.6		34.1		26.7		62.3		-		26.1		26.1	
3	JH 13348	19.5		19.5		-		-		20.2		27.9		-		-		-		35.9		2.1		5		5	
4	LMH 615	19.5		19.5		3.6		7.3		45.6		19.1		3.2		17.7		6.5		37.7		3		15.1		15.1	
	CHECKS																										
5	Bio 9637(C)	-		-		-		-		-		-		-		-		-		-		-		-		-	
6	HM9(C)	-		-		-		-		-		-		-		-		-		-		-		-		-	
7	PMH4(C)	23.8		23.8		-		-		-		7.7		2.5		1.4		21.6		26.5		7		6.6		6.6	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM9(C)																		CWZ ZN 5		OV'L	
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	BHIL	R	DAHO	R	RAIP	R	JAGA	R	CHIT	R	MEAN	R	MEAN	R
1	BL 106	17.2		17.2		38		99		152		107.9		68.8		82.8		145		63.6		1.9		59.1		59.1	
2	JH 13347	55		55		55.7		143		220.9		107.3		75.9		103.1		144		91.8		0.3		80.4		80.4	
3	JH 13348	33.1		33.1		25.1		117		139.8		95.1		59.2		40.5		50.4		60.6		4.5		50.1		50.1	
4	LMH 615	33.1		33.1		44.5		147		190.4		81.8		67.3		78.2		106		62.7		5.4		64.7		64.7	
	CHECKS																										
5	Bio 9637(C)	11.4		11.4		39.5		130		99.5		52.5		62		51.4		92.9		18.1		2.4		43		43	
6	HM9(C)	-		-		-		-		-		-		-		-		-		-		-		-		-	
7	PMH4(C)	37.9		37.9		29.1		128		66.4		64.3		66		53.5		134		49.4		9.6		52.4		52.4	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH4(C)																		CWZ ZN 5		OV'L	
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	BHIL	R	DAHO	R	RAIP	R	JAGA	R	CHIT	R	MEAN	R	MEAN	R
1	BL 106	-		-		6.9		-		51.4		26.5		1.7		19.1		4.3		9.5		-		4.4		4.4	
2	JH 13347	12.3		12.3		20.6		6.4		92.8		26.2		6		32.2		4.3		28.3		-		18.3		18.3	
3	JH 13348	-		-		-		-		44.1		18.7		-		-		-		7.5		-		-		-	
4	LMH 615	-		-		11.9		8		74.5		10.6		0.8		16.1		-		8.9		-		8.1		8.1	
	CHECKS																										
5	Bio 9637(C)	-		-		8		0.6		19.8		-		-		-		-		-		-		-		-	
6	HM9(C)	-		-		-		-		-		-		-		-		-		-		-		-		-	
7	PMH4(C)	-		-		-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 16 (Contd.)

		MOISTURE % AT HARVEST											CWZ ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	BL 106	16.9	16.9	15.5	17.0	14.7	16.1	16.4	12.3	16.4	16.0	19.4	16.1
2	JH 13347	16.7	16.7	15.4	17.1	14.9	16.6	16.5	13.1	16.5	16.0	19.4	16.2
3	JH 13348	16.9	16.9	18.2	17.8	15.7	17.4	16.9	14.4	17.0	16.2	16.3	16.7
4	LMH 615	17.0	17.0	15.5	18.3	16.1	15.0	15.6	13.0	16.9	17.0	17.4	16.3
	CHECKS												
5	Bio 9637(C)	16.9	16.9	15.1	18.0	15.6	16.1	16.4	12.8	16.8	16.3	19.6	16.4
6	HM9(C)	16.2	16.2	13.3	16.6	14.6	13.7	15.4	12.4	16.2	15.6	19.7	15.4
7	PMH4(C)	17.1	17.1	14.8	17.3	13.8	15.3	15.8	11.8	16.7	16.3	17.2	15.8
	Loc. Mean	**16.8**	**16.8**	**15.4**	**17.4**	**15.0**	**15.7**	**16.1**	**12.8**	**16.7**	**16.2**	**18.4**	**16.1**
	C.D. (5%)	0.36	0.36	1.48	2.77	0.51	1.27	0.67	0.38	1.81	2.29	1.86	0.66
	C.V. (%)	1.22	1.22	5.41	8.92	1.91	4.53	2.35	1.68	6.10	7.96	5.69	4.81
	F (Prob)	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00	0.95	0.89	0.01	0.01

		GRAIN SHELLING %											CWZ ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	BL 106	76.6	76.6	88.7	79.7	84.6	85.7	86.1	87.3	78.4	79.4	69.7	81.2
2	JH 13347	77.1	77.1	85.7	79.8	86.5	85.6	85.7	87.1	78.3	79.4	74.4	81.5
3	JH 13348	78.5	78.5	85.2	79.6	88.6	75.8	85.5	86.7	78.2	79.2	72.9	80.8
4	LMH 615	78.3	78.3	89.0	79.8	86.8	81.3	85.9	86.9	78.3	78.6	68.7	81.1
	CHECKS												
5	Bio 9637(C)	76.9	76.9	89.7	80.0	87.6	76.8	84.2	84.5	80.5	79.8	73.2	80.9
6	HM9(C)	73.5	73.5	85.9	78.6	88.6	74.0	78.6	83.5	78.0	78.2	75.5	78.9
7	PMH4(C)	76.0	76.0	89.1	79.9	63.6	86.8	87.2	79.1	79.2	79.1	69.8	78.7
	Loc. Mean	**76.7**	**76.7**	**87.6**	**79.6**	**83.7**	**80.9**	**84.7**	**85.0**	**78.7**	**79.1**	**72.0**	**80.4**
	C.D. (5%)	2.74	2.74	4.63	1.34	2.29	6.44	3.35	4.13	2.03	2.96	4.32	3.07
	C.V. (%)	2.01	2.01	2.97	0.94	1.54	4.48	2.22	2.73	1.45	2.11	3.37	4.48
	F (Prob)	0.03	0.03	0.23	0.38	0.00	0.00	0.00	0.01	0.19	0.92	0.03	0.36

TABLE No. 16 (Contd.)

		STAND AT HARVEST ('000/ha)											CWZ
													ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	BL 106	55.6	55.6	63.6	56.1	58.7	44.4	56.8	40.8	65.3	62.5	88.4	58.9
2	JH 13347	60.8	60.8	63.6	60.8	80.6	44.2	60.4	51.1	66.7	68.1	94.9	64.7
3	JH 13348	63.9	63.9	56.1	58.3	54.2	44.2	57.1	47.8	50.3	61.1	84.3	58.3
4	LMH 615	59.0	59.0	56.7	63.1	66.0	42.2	62.2	47.5	60.6	62.5	85.6	60.4
	CHECKS												
5	Bio 9637(C)	60.4	60.4	53.1	61.4	67.7	38.6	63.7	45.8	63.9	50.3	86.6	59.3
6	HM9(C)	62.2	62.2	56.9	42.5	45.1	41.4	53.9	42.2	45.6	45.6	101.4	54.4
7	PMH4(C)	63.5	63.5	65.3	58.3	65.6	44.4	64.9	53.1	64.7	58.3	95.4	63.4
	Loc. Mean	**60.8**	**60.8**	**59.3**	**57.2**	**62.5**	**42.8**	**59.9**	**46.9**	**59.6**	**58.3**	**90.9**	**59.9**
	C.D. (5%)	5.63	5.63	6.53	5.69	3.66	6.26	9.57	5.98	5.24	3.71	12.85	4.65
	C.V. (%)	5.21	5.21	6.19	5.59	3.29	8.22	8.99	7.17	4.94	3.58	7.95	9.09
	F (Prob)	0.08	0.08	0.01	0.00	0.00	0.38	0.21	0.01	0.00	0.00	0.10	0.00

		DAYS TO 50% POLLEN SHED											CWZ
													ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	BL 106	50.3	50.3	61.7	49.7	48.0	49.7	54.0	51.0	52.7	53.7	53.7	52.2
2	JH 13347	50.7	50.7	57.7	51.7	47.0	50.0	49.3	44.0	52.3	51.7	52.3	50.7
3	JH 13348	50.3	50.3	62.0	53.7	51.0	52.3	53.3	53.7	55.7	52.3	55.0	53.6
4	LMH 615	50.7	50.7	58.7	50.3	48.0	49.0	53.3	55.7	52.0	53.7	54.3	52.4
	CHECKS												
5	Bio 9637(C)	51.3	51.3	61.3	53.7	49.0	50.7	53.7	53.3	49.0	55.0	55.7	53.1
6	HM9(C)	50.7	50.7	58.0	47.7	48.0	47.3	51.0	49.7	52.0	53.3	55.0	51.2
7	PMH4(C)	50.3	50.3	57.7	46.7	50.0	47.7	50.3	45.7	53.0	51.3	53.0	50.5
	Loc. Mean	**50.6**	**50.6**	**59.6**	**50.5**	**48.7**	**49.5**	**52.1**	**50.4**	**52.4**	**53.0**	**54.1**	**52.0**
	C.D. (5%)	2.04	2.04	0.90	0.39	1.16	1.07	2.19	2.87	2.64	1.10	1.68	1.48
	C.V. (%)	2.26	2.26	0.85	0.43	1.34	1.22	2.36	3.20	2.84	1.16	1.74	3.34
	F (Prob)	0.93	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00

TABLE No. 16 (Contd.)

		DAYS TO 50% SILKING											CWZ ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	BL 106	53.3	53.3	62.7	52.0	50.0	52.7	59.0	54.7	55.3	56.3	57.7	55.2
2	JH 13347	53.7	53.7	58.0	54.0	49.0	52.3	54.3	49.0	54.7	55.0	55.7	53.6
3	JH 13348	53.3	53.3	63.0	55.7	53.7	55.0	58.3	58.0	59.0	55.7	58.3	56.7
4	LMH 615	53.7	53.7	60.3	52.7	50.0	51.7	58.0	60.3	54.0	55.7	56.3	55.1
	CHECKS												
5	Bio 9637(C)	54.3	54.3	62.3	55.7	51.0	53.3	58.0	58.0	51.7	57.7	59.0	55.9
6	HM9(C)	53.7	53.7	59.3	50.0	50.0	50.3	56.0	55.0	55.3	56.0	58.3	54.3
7	PMH4(C)	53.3	53.3	57.3	49.0	52.0	50.7	55.0	51.0	55.7	55.7	56.3	53.6
	Loc. Mean	**53.6**	**53.6**	**60.4**	**52.7**	**50.8**	**52.3**	**57.0**	**55.1**	**55.1**	**56.0**	**57.4**	**54.9**
	C.D. (5%)	2.04	2.04	1.19	0.78	1.69	1.65	1.85	3.13	2.20	1.62	1.42	1.46
	C.V. (%)	2.13	2.13	1.10	0.83	1.87	1.77	1.82	3.19	2.25	1.62	1.39	3.12
	F (Prob)	0.93	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00

		DAYS TO 75% DRY HUSK											CWZ ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	BL 106	83.3	83.3	98.7	91.0	79.0	88.3	82.7	122.3	94.0	101.0	97.0	92.8
2	JH 13347	84.0	84.0	98.3	92.3	80.3	88.0	84.7	122.3	92.0	95.0	93.3	92.2
3	JH 13348	84.0	84.0	102.3	94.0	84.7	89.7	83.3	123.7	91.0	97.0	95.7	93.6
4	LMH 615	84.3	84.3	96.7	90.0	81.3	85.7	81.3	126.0	85.7	95.7	94.7	91.4
	CHECKS												
5	Bio 9637(C)	84.3	84.3	101.7	96.7	80.3	88.7	82.3	121.0	82.0	99.3	96.3	92.5
6	HM9(C)	83.7	83.7	96.3	92.0	81.3	87.3	84.0	124.0	90.7	96.0	92.7	92.0
7	PMH4(C)	85.0	85.0	98.7	90.0	82.7	86.0	82.7	124.0	92.0	98.0	95.3	92.7
	Loc. Mean	**84.1**	**84.1**	**99.0**	**92.3**	**81.4**	**87.7**	**83.0**	**123.3**	**89.6**	**97.4**	**95.0**	**92.4**
	C.D. (5%)	2.16	2.16	1.03	0.59	3.35	1.99	3.01	4.62	2.76	1.34	2.65	1.72
	C.V. (%)	1.44	1.44	0.58	0.36	2.31	1.27	2.04	2.11	1.73	0.77	1.57	2.18
	F (Prob)	0.74	0.74	0.00	0.00	0.06	0.01	0.33	0.39	0.00	0.00	0.04	0.30

TABLE No. 16 (Contd.)

		PLANT HEIGHT(cm)											CWZ ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	BL 106	170.0	170.0	185.0	229.4	176.7	172.3	163.3	164.5	233.7	201.7	215.3	189.2
2	JH 13347	188.3	188.3	182.7	215.9	168.3	165.9	163.0	161.1	210.7	186.7	204.3	185.0
3	JH 13348	203.3	203.3	210.7	251.3	168.3	188.6	181.7	165.8	246.6	211.1	208.7	203.6
4	LMH 615	193.3	193.3	184.7	254.7	168.3	186.2	169.0	166.1	238.6	189.7	209.7	195.8
	CHECKS												
5	Bio 9637(C)	195.0	195.0	179.3	249.9	165.0	165.4	161.0	158.9	248.6	192.7	205.5	192.4
6	HM9(C)	165.0	165.0	182.0	213.1	139.7	137.4	145.7	134.7	205.7	167.5	185.1	167.3
7	PMH4(C)	176.7	176.7	158.7	212.3	150.3	153.5	147.0	144.8	210.8	160.7	191.2	171.2
	Loc. Mean	**184.5**	**184.5**	**183.3**	**232.4**	**162.4**	**167.0**	**161.5**	**156.6**	**227.8**	**187.1**	**202.8**	**186.4**
	C.D. (5%)	50.52	50.52	11.01	19.45	18.71	9.27	15.45	9.04	28.98	14.39	13.87	7.02
	C.V. (%)	15.39	15.39	3.38	4.71	6.48	3.12	5.38	3.25	7.15	4.32	3.84	4.42
	F (Prob)	0.62	0.62	0.00	0.00	0.01	0.00	0.00	0.00	0.02	0.00	0.01	0.00

		EAR HEIGHT(cm)											ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	BL 106	76.7	76.7	80.0	82.5	76.0	86.1	73.3	72.9	94.7	61.8	80.3	78.3
2	JH 13347	91.7	91.7	80.7	78.1	75.3	83.0	82.7	78.1	87.9	57.6	76.7	80.3
3	JH 13348	101.7	101.7	89.3	97.5	80.3	94.3	85.7	78.5	99.9	63.4	78.5	88.2
4	LMH 615	85.0	85.0	85.0	95.1	78.7	93.1	84.0	76.1	105.0	59.5	75.6	83.8
	CHECKS												
5	Bio 9637(C)	91.7	91.7	72.7	91.5	80.3	82.7	70.7	82.3	104.0	61.9	69.5	81.7
6	HM9(C)	76.7	71.7	80.0	73.5	62.0	68.7	70.7	59.4	75.1	56.6	69.8	69.5
7	PMH4(C)	81.7	81.7	72.0	75.6	73.7	76.8	72.7	70.2	84.7	50.9	71.6	73.8
	Loc. Mean	**86.4**	**85.7**	**80.0**	**84.8**	**75.2**	**83.5**	**77.1**	**73.9**	**93.0**	**58.8**	**74.6**	**79.4**
	C.D. (5%)	23.21	25.12	8.01	10.13	13.80	4.61	12.56	7.67	18.64	4.18	7.46	4.43
	C.V. (%)	15.10	16.47	5.63	6.71	10.32	3.10	9.16	5.83	11.26	3.99	5.62	6.55
	F (Prob)	0.27	0.24	0.01	0.00	0.14	0.00	0.07	0.00	0.04	0.00	0.04	0.00

TABLE No. 17 **PERFORMANCE OF EARLY MATURITY EXPERIMENTAL HYBRIDS AT UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA, JHABHUA, BHILODA, DAHOD, RAIPUR, JAGADALPUR, KOTA, CHITRAKOOT IN TRIAL No. TR67Z5 (AVT-I EARLY-CWZ) DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																				CWZ ZN 5 MEAN	R	OV'L MEAN	R
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	BHIL	R	DAHO	R	RAIP	R	JAGA	R	CHIT	R				
1	JKMH 4222	4005	4	5083	1	8248	1	5117	5	6087	2	5482	1	3751	3	3433	3	5464	7	9136	2	9023	2	5894	2	5894	2
2	Seed Tech 2324 (Filler)	3106	7	4264	2	6273	3	6660	3	3189	4	3941	5	2932	6	2339	6	8055	2	7281	4	8341	3	5125	4	5125	4
3	PMH1 (Filler)	3376	5	2968	7	5760	5	6254	4	2161	6	3798	6	2788	7	2963	4	5531	6	6883	5	8064	5	4595	6	4595	6
4	PMH4 (Filler)	4948	1	3393	4	6166	4	3872	7	7899	1	4691	2	3823	2	4625	1	7761	4	9443	1	9441	1	6005	1	6005	1
5	BIO9637 (Filler)	3243	6	3375	5	6407	2	4194	6	3121	5	4038	4	2949	5	2559	5	7776	3	7451	3	7261	7	4761	5	4761	5
	CHECKS																										
6	PMH-5(C)	4415	3	3462	3	4051	6	6937	2	5773	3	4277	3	4124	1	3609	2	8137	1	5120	6	8189	4	5281	3	5281	3
7	Prakash(C)	4766	2	3114	6	1943	7	7179	1	547	7	683	7	2980	4	385	7	6010	5	3568	7	7575	6	3523	7	3523	7
	Location Mean	**3980**		**3666**		**5550**		**5745**		**4111**		**3844**		**3335**		**2845**		**6962**		**6983**		**8270**		**5026**		**5026**	
	C.D. (5%)	679		660		488		810		354		610		563		713		1396		799		870		722		722	
	C.V. (%)	9.49		10.03		4.89		7.84		4.79		8.82		9.39		13.94		11.16		6.37		5.86		-		-	
	F (Prob)	0.001		0		0		0		0		0		0		0		0.001		0		0.002					
	Plot Size	9.6		9.6		12		9.6		9.6		12		11.2		12		9.6		9.6		7.2		-		-	
	AGRONOMY DATA																										
	Sowing Date	2-07		27-06		18-07		4-07		8-07		28-06		7-05		-		19-07		4-07		24-07		-		-	
	Harvest Date	23-10		19-10		2-12		-		25-10		14-10		21-10		-		-		-		20-10		-		-	
	Irrigation Nos	1		-		-		-		-		-		2		-		-		-		2		-		-	
	Ferilizer Applied N	90		150		120		100		120		120		120		-		100		100		100		-		-	
	Ferilizer Applied P	60		80		60		50		60		60		60		-		50		50		60		-		-	
	Ferilizer Applied K	-		-		40		30		-		60		-		-		30		30		40		-		-	

Location Kota: Rejected due to low trial mean yield (1229 kg/ha) in comparison to state average yield

TABLE No. 17 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-5(C)																		CWZ ZN 5 MEAN	R	OV'L MEAN	R
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	BHIL	R	DAHO	R	RAIP	R	JAGA	R	CHIT	R				
1	JKMH 4222	-		46.8		103.6		-		5.4		28.2		-		-		-		78.4		10.2		11.6		11.6	
2	Seed Tech 2324 (Filler)	-		23.1		54.8		-		-		-		-		-		-		42.2		1.9		-		-	
3	PMH1 (Filler)	-		-		42.2		-		-		-		-		-		-		34.4		-		-		-	
4	PMH4 (Filler)	12.1		-		52.2		-		36.8		9.7		-		28.1		-		84.4		15.3		13.7		13.7	
5	BIO9637 (Filler)	-		-		58.2		-		-		-		-		-		-		45.5		-		-		-	
	CHECKS																										
6	PMH-5(C)	-		-		-		-		-		-		-		-		-		-		-		-		-	
7	Prakash(C)	7.9		-		-		3.5		-		-		-		-		-		-		-		-		-	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Prakash(C)																		CWZ ZN 5 MEAN	R	OV'L MEAN	R
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	BHIL	R	DAHO	R	RAIP	R	JAGA	R	CHIT	R				
1	JKMH 4222	-		63.2		324.4		-		1012		702.6		25.9		792		-		156.1		19.1		67.3		67.3	
2	Seed Tech 2324 (Filler)	-		36.9		222.8		-		482.8		477.1		-		507.6		34		104.1		10.1		45.5		45.5	
3	PMH1 (Filler)	-		-		196.4		-		294.9		456.1		-		669.8		-		92.9		6.5		30.4		30.4	
4	PMH4 (Filler)	3.8		9		217.3		-		1344		586.8		28.3		1102		29.1		164.7		24.6		70.5		70.5	
5	BIO9637 (Filler)	-		8.4		229.7		-		470.4		491.3		-		564.9		29.4		108.8		-		35.2		35.2	
	CHECKS																										
6	PMH-5(C)	-		11.2		108.4		-		955.1		526.2		38.4		837.7		35.4		43.5		8.1		49.9		49.9	
7	Prakash(C)	-		-		-		-		-		-		-		-		-		-		-		-		-	

Table No. 17 (Contd.)

		MOISTURE % AT HARVEST											CWZ
													ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	JKMH 4222	22.8	16.1	10.7	16.9	15.3	14.2	16.5	10.9	15.9	15.3	18.7	15.7
2	Seed Tech 2324 (Filler)	22.9	16.1	11.6	16.8	14.0	15.4	15.9	10.7	16.0	15.1	19.1	15.8
3	PMH1 (Filler)	22.4	15.6	11.8	15.9	14.6	14.6	17.5	11.6	15.4	14.5	18.9	15.7
4	PMH4 (Filler)	22.9	15.9	11.7	16.1	15.4	16.6	15.2	10.6	15.5	14.7	20.4	15.9
5	BIO9637 (Filler)	22.5	15.2	11.6	16.6	15.0	14.6	15.8	10.9	16.1	15.1	18.3	15.6
	CHECKS												
6	PMH-5(C)	22.4	15.8	11.2	16.8	14.9	14.7	15.9	9.9	15.9	15.3	16.9	15.4
7	Prakash(C)	22.9	16.2	10.2	16.0	14.6	14.2	16.4	10.4	15.4	14.4	17.2	15.3
	Loc. Mean	**22.6**	**15.8**	**11.3**	**16.4**	**14.8**	**14.9**	**16.2**	**10.7**	**15.8**	**14.9**	**18.5**	**15.6**
	C.D. (5%)	0.71	0.25	0.75	2.17	0.47	1.74	1.24	1.12	1.42	1.58	2.01	0.51
	C.V. (%)	1.76	0.87	3.72	7.43	1.79	6.58	4.33	5.89	5.08	5.95	6.10	3.82
	F (Prob)	0.46	0.00	0.00	0.89	0.00	0.10	0.04	0.12	0.85	0.76	0.04	0.18

		GRAIN SHELLING %											CWZ
													ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	JKMH 4222	83.0	74.9	89.6	79.5	83.7	84.0	83.5	87.3	78.9	79.1	71.2	81.3
2	Seed Tech 2324 (Filler)	82.9	73.4	85.3	78.4	86.4	85.5	86.0	86.3	80.3	79.2	68.5	81.1
3	PMH1 (Filler)	82.5	74.0	89.7	78.4	86.0	84.6	88.0	86.7	78.9	77.8	72.2	81.7
4	PMH4 (Filler)	83.1	72.5	85.3	79.0	82.8	84.7	85.9	87.3	78.1	79.0	72.4	80.9
5	BIO9637 (Filler)	82.5	70.6	89.1	77.9	89.0	84.2	86.3	87.6	78.0	78.0	72.5	81.4
	CHECKS												
6	PMH-5(C)	82.9	71.4	84.2	79.1	86.1	83.8	84.8	85.6	79.2	79.1	71.0	80.6
7	Prakash(C)	83.1	72.2	88.9	78.9	82.6	85.1	87.1	87.0	78.1	77.9	70.3	81.0
	Loc. Mean	**82.8**	**72.7**	**87.5**	**78.7**	**85.2**	**84.5**	**85.9**	**86.8**	**78.8**	**78.6**	**71.2**	**81.2**
	C.D. (5%)	0.74	1.96	3.11	2.22	2.82	2.66	3.14	1.75	2.34	2.82	2.53	1.16
	C.V. (%)	0.51	1.51	2.00	1.58	1.86	1.77	2.05	1.13	1.67	2.01	2.00	1.68
	F (Prob)	0.50	0.01	0.01	0.75	0.00	0.78	0.13	0.26	0.38	0.79	0.05	0.61

Table No. 17 (Contd.)

		STAND AT HARVEST ('000/ha)											CWZ
													ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	JKMH 4222	64.2	61.8	63.6	64.6	75.0	45.8	56.3	46.4	63.9	81.3	87.5	64.6
2	Seed Tech 2324 (Filler)	64.2	58.7	65.0	76.4	68.1	46.1	52.1	46.1	79.5	74.7	85.6	65.1
3	PMH1 (Filler)	64.2	58.3	66.1	71.9	67.0	45.0	58.9	43.3	61.8	72.2	87.5	63.3
4	PMH4 (Filler)	64.6	61.1	60.0	56.9	68.4	41.9	54.2	48.3	78.5	83.3	98.1	65.0
5	BIO9637 (Filler)	64.2	57.3	65.6	64.6	65.6	49.2	54.2	42.8	76.7	77.4	93.1	64.6
	CHECKS												
6	PMH-5(C)	64.2	58.0	60.8	77.1	66.3	43.9	58.9	50.8	80.6	65.6	90.3	65.1
7	Prakash(C)	64.2	54.9	54.4	78.5	33.0	21.4	54.5	21.1	68.4	55.9	84.3	53.7
	Loc. Mean	**64.3**	**58.6**	**62.2**	**70.0**	**63.3**	**41.9**	**55.6**	**42.7**	**72.8**	**72.9**	**89.5**	**63.1**
	C.D. (5%)	0.90	8.57	7.91	5.79	4.43	5.51	6.21	7.22	7.95	4.09	11.84	5.73
	C.V. (%)	0.79	8.22	7.14	4.65	3.93	7.39	6.28	9.50	6.14	3.15	7.44	10.66
	F (Prob)	0.97	0.65	0.07	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.24	0.00

		DAYS TO 50% POLLEN SHED											CWZ
													ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	JKMH 4222	53.3	46.7	55.7	48.7	50.3	48.0	49.0	42.7	46.3	49.0	53.3	49.4
2	Seed Tech 2324 (Filler)	52.3	47.7	53.7	43.7	47.3	48.0	43.3	44.7	45.0	46.0	48.7	47.3
3	PMH1 (Filler)	52.3	46.7	52.0	47.3	46.0	50.0	42.7	44.0	45.7	46.7	47.0	47.3
4	PMH4 (Filler)	53.3	47.0	56.0	48.7	51.0	43.7	49.7	47.3	51.0	48.3	50.3	49.7
5	BIO9637 (Filler)	51.7	46.7	52.0	45.0	48.0	43.7	44.3	43.7	47.0	47.7	46.3	46.9
	CHECKS												
6	PMH-5(C)	51.7	47.0	54.0	48.0	48.0	48.7	42.7	42.7	44.7	50.3	52.3	48.2
7	Prakash(C)	58.7	46.3	56.0	43.7	51.7	49.7	50.0	48.0	41.3	49.3	53.7	49.8
	Loc. Mean	**53.3**	**46.9**	**54.2**	**46.4**	**48.9**	**47.4**	**46.0**	**44.7**	**45.9**	**48.2**	**50.2**	**48.4**
	C.D. (5%)	1.10	1.52	1.95	1.83	3.03	1.45	1.93	2.05	1.68	1.51	3.97	1.81
	C.V. (%)	1.16	1.82	2.02	2.22	3.48	1.72	2.36	2.57	2.06	1.76	4.45	4.38
	F (Prob)	0.00	0.63	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00

Table No. 17 (Contd.)

		DAYS TO 50% SILKING											CWZ ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	JKMH 4222	55.3	49.7	56.0	50.7	52.3	50.0	54.3	49.3	48.7	52.0	56.3	52.2
2	Seed Tech 2324 (Filler)	54.3	50.7	52.0	46.3	49.3	50.3	48.7	50.3	48.0	48.7	53.0	50.2
3	PMH1 (Filler)	54.0	49.7	52.3	50.3	48.3	52.7	49.0	48.3	48.7	50.3	53.0	50.6
4	PMH4 (Filler)	55.3	50.0	56.3	51.3	53.0	46.7	54.7	53.0	53.0	51.3	54.7	52.7
5	BIO9637 (Filler)	53.7	49.7	52.0	47.0	48.3	46.3	49.3	49.7	50.0	51.7	50.7	49.8
	CHECKS												
6	PMH-5(C)	53.7	50.0	55.7	50.3	50.0	50.7	48.3	48.0	46.7	52.7	55.0	51.0
7	Prakash(C)	60.7	49.3	56.0	46.3	53.3	52.0	55.3	53.3	44.0	52.0	57.3	52.7
	Loc. Mean	**55.3**	**49.9**	**54.3**	**48.9**	**50.7**	**49.8**	**51.4**	**50.3**	**48.4**	**51.2**	**54.3**	**51.3**
	C.D. (5%)	1.03	1.52	0.71	2.01	2.82	1.33	2.03	2.31	1.58	1.44	3.82	1.70
	C.V. (%)	1.04	1.71	0.73	2.31	3.13	1.50	2.22	2.58	1.83	1.57	3.95	3.89
	F (Prob)	0.00	0.63	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.04	0.00

		DAYS TO 75% DRY HUSK											CWZ ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	JKMH 4222	85.3	76.3	89.0	85.3	77.3	84.0	82.3	115.0	82.3	93.7	86.0	87.0
2	Seed Tech 2324 (Filler)	85.3	77.3	87.3	86.0	76.0	81.3	78.0	109.7	81.0	93.3	83.3	85.3
3	PMH1 (Filler)	84.7	76.7	87.3	88.3	74.3	83.0	78.3	115.0	81.3	93.0	82.3	85.8
4	PMH4 (Filler)	84.7	77.7	90.0	83.0	81.0	85.7	81.0	120.3	85.7	93.3	84.0	87.8
5	BIO9637 (Filler)	83.7	78.0	85.3	83.3	76.0	83.0	78.7	113.7	82.0	94.0	80.0	85.2
	CHECKS												
6	PMH-5(C)	83.7	76.7	88.7	87.0	75.7	82.7	77.7	116.0	80.7	93.0	86.3	86.2
7	Prakash(C)	91.3	77.0	82.0	85.0	77.0	79.3	81.3	112.0	80.0	93.3	85.3	85.8
	Loc. Mean	**85.5**	**77.1**	**87.1**	**85.4**	**76.8**	**82.7**	**79.6**	**114.5**	**81.9**	**93.4**	**83.9**	**86.2**
	C.D. (5%)	0.78	2.25	3.15	9.19	2.07	1.68	4.86	2.89	3.11	1.50	3.46	1.71
	C.V. (%)	0.51	1.64	2.04	6.04	1.51	1.14	3.43	1.42	2.14	0.91	2.32	2.33
	F (Prob)	0.00	0.67	0.00	0.86	0.00	0.00	0.28	0.00	0.03	0.77	0.02	0.04

Table No. 17 (Contd.)

		PLANT HEIGHT(cm)											CWZ
													ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	JKMH 4222	170.0	210.0	204.0	221.5	164.3	193.5	167.3	153.9	252.9	223.1	210.4	197.4
2	Seed Tech 2324 (Filler)	160.0	151.7	156.0	198.3	133.7	148.8	143.0	122.5	212.2	173.7	184.7	162.2
3	PMH1 (Filler)	156.7	148.3	153.7	215.9	123.3	143.3	141.0	131.9	214.1	171.7	183.3	162.1
4	PMH4 (Filler)	170.0	148.3	157.0	196.1	151.7	156.1	152.3	132.5	224.0	177.9	186.2	168.4
5	BIO9637 (Filler)	156.7	140.0	163.7	196.6	135.0	143.4	135.7	124.7	215.4	171.7	188.9	161.1
	CHECKS												
6	PMH-5(C)	160.0	175.0	156.7	227.5	156.7	166.0	148.3	132.9	219.6	175.5	191.5	173.6
7	Prakash(C)	170.0	155.0	162.3	214.0	127.7	123.8	137.7	90.3	162.2	141.9	169.3	150.4
	Loc. Mean	**163.3**	**161.2**	**164.8**	**210.0**	**141.8**	**153.5**	**146.5**	**127.0**	**214.3**	**176.5**	**187.7**	**167.9**
	C.D. (5%)	10.02	49.31	12.07	45.08	22.97	12.32	16.14	10.53	13.12	8.69	9.39	9.83
	C.V. (%)	3.45	17.20	4.12	12.07	9.11	4.51	6.19	4.66	3.44	2.77	2.81	6.87
	F (Prob)	0.02	0.11	0.00	0.60	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00

		EAR HEIGHT(cm)											CWZ
													ZN 5
S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGA	CHIT	Mean
1	JKMH 4222	70.0	91.7	88.3	83.5	72.0	96.8	74.7	67.8	91.8	71.2	65.7	79.4
2	Seed Tech 2324 (Filler)	63.3	73.3	53.3	66.9	47.0	74.4	54.3	40.5	72.0	56.7	65.1	60.6
3	PMH1 (Filler)	66.7	71.7	57.0	79.6	45.0	71.6	50.0	47.1	72.0	56.6	66.0	62.1
4	PMH4 (Filler)	76.7	76.7	77.3	76.8	71.7	78.1	78.0	65.0	88.2	58.5	64.5	73.8
5	BIO9637 (Filler)	73.3	63.3	54.7	69.5	48.3	71.7	51.0	43.7	74.2	57.2	64.7	61.1
	CHECKS												
6	PMH-5(C)	66.7	87.7	78.7	84.0	71.0	83.0	69.3	56.7	79.7	59.3	68.0	73.1
7	Prakash(C)	73.3	80.0	83.7	80.4	53.7	61.9	64.7	43.9	59.6	48.9	54.7	64.1
	Loc. Mean	**70.0**	**77.8**	**70.4**	**77.2**	**58.4**	**76.8**	**63.1**	**52.1**	**76.8**	**58.4**	**64.1**	**67.7**
	C.D. (5%)	7.76	23.38	9.77	26.45	16.98	6.17	7.85	6.94	6.60	4.09	5.43	5.85
	C.V. (%)	6.23	16.90	7.80	19.25	16.35	4.52	6.99	7.49	4.83	3.94	4.76	10.13
	F (Prob)	0.03	0.22	0.00	0.72	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 18 **PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, IMPHAL, LUDHIANA, KARNAL, DELHI, KANPUR, PANTNAGAR, DHOLI, BHUBANESHWAR, RANCHI, VARANASI, BAHRAICH, KALYANI, SABOUR, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, COIMBATORE, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR. GODHRA IN TRIAL No. TRQPM I-II-III DURING KHARIF 2016**

Sl		GRAIN YIELD (kg/ha) AT 15% MOISTURE								NHZ ZN 1												NWPZ ZN 2	
No	PEDIGREE	ALMO	R	BAJA	R	KANG	R	IMPH	R	MEAN	R	LUDH	R	KARN	R	DELH	R	KANP	R	PANT	R	MEAN	R
1	IIMRQPMH 1608	6517	26	7907	19	3651	23	3406	17	5370	23	4879	24	7850	1	5414	10	6157	2	6216	25	6103	15
2	REHQ2014-11	6828	24	7228	23	3823	20	2896	19	5194	26	4535	25	5866	25	3893	23	6513	1	6088	26	5379	25
3	FQH 106	7234	21	6419	26	3922	15	4323	8	5474	20	5325	21	5767	27	4842	19	5214	12	7181	13	5666	24
4	IIMRQPMH 1601	8424	7	10376	1	4373	10	2898	18	6517	7	7746	1	6509	22	7668	2	5543	7	8200	3	7133	1
5	IIMRQPMH 1502	8522	4	8830	11	4817	5	2798	21	6242	11	5960	17	7768	3	6586	4	5413	10	6355	22	6416	6
6	IIMRQPMH 1605	8176	13	9404	6	4362	11	2883	20	6206	12	6790	4	7150	16	5429	8	5944	3	7378	9	6538	5
7	IIMRQPMH 1606	7942	15	8591	14	4555	7	3668	16	6189	13	5292	22	6883	21	5170	12	4689	22	6611	20	5729	23
8	VEHQ-16-1	8263	12	9395	7	4313	12	4409	7	6595	6	6434	12	7503	8	8182	1	4724	21	7301	11	6829	2
9	IIMRQPMH 1607	8097	14	6850	25	4417	9	5284	1	6162	15	6676	6	7460	10	4130	22	5608	4	7408	8	6256	11
10	IIMRQPMH 1603	8831	2	9923	2	3869	19	4299	10	6731	2	6607	8	7219	13	6037	5	5172	14	6826	18	6372	8
11	BQPMH 16	8370	8	8366	17	5048	3	4798	3	6646	5	6496	10	7194	14	6000	6	4597	23	7259	12	6309	10
12	IIMRQPMH 1504*	8301	10	9857	3	3882	18	3957	14	6499	8	6870	3	7146	17	4945	16	5472	8	6352	23	6157	13
13	IMHQPM 1530	9469	1	9668	4	6520	1	4581	4	7559	1	6596	9	7688	6	4853	17	5566	6	6921	16	6325	9
14	IIMRQPMH 1604	7203	22	7383	22	4483	8	2339	24	5352	24	5282	23	7503	9	3475	26	4324	26	6225	24	5362	26
15	IIMRQPMH 1610	7623	18	6993	24	4860	4	2072	26	5387	22	6484	11	7704	5	5167	13	4510	24	6753	19	6124	14
16	IIMRQPMH 1609	7683	17	7662	20	3777	21	2238	25	5340	25	7255	2	7043	20	3890	25	5591	5	7451	7	6246	12
17	QPM-MH-27	8335	9	8973	10	3897	17	1710	27	5729	18	6204	13	7054	19	4848	18	5194	13	8684	2	6397	7
18	IIMRQPMH 1602	8554	3	8794	12	4290	13	2699	23	6084	16	6026	15	7085	18	5135	14	4939	17	6977	15	6032	18
19	KDQH-51	5359	27	5528	27	3940	14	2785	22	4403	27	2779	27	6069	24	2911	27	4242	27	4829	27	4166	27
20	IIMRQPMH 1508	7824	16	8522	16	4726	6	4545	5	6404	10	5591	20	7803	2	4325	21	4925	18	6882	17	5905	21

TABLE No. 18 **PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, IMPHAL, LUDHIANA, KARNAL, DELHI, KANPUR, PANTNAGAR, DHOLI, BHUBANESHWAR, RANCHI, VARANASI, BAHRAICH, KALYANI, SABOUR, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, COIMBATORE, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA IN TRIAL No. TRQPM I-II-III DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								NHZ ZN 1												NWPZ ZN 2	
		ALMO	R	BAJA	R	KANG	R	IMPH	R	MEAN	R	LUDH	R	KARN	R	DELH	R	KANP	R	PANT	R	MEAN	R
21	IIMRQPMH 1501	8272	11	9579	5	3775	22	5252	2	6719	3	6688	5	7670	7	6693	3	4401	25	7511	5	6593	3
	CHECKS																						
22	Pratap QPM Hybrid 1(C)	7546	19	8351	18	3899	16	4310	9	6026	17	5949	18	7169	15	5464	7	4916	19	6578	21	6015	19
23	Vivek QPM 9(C)	6726	25	7510	21	3412	26	3980	12	5407	21	4202	26	7229	12	5108	15	5133	15	7048	14	5744	22
24	HQPM 1(C)	8491	6	9355	8	3527	25	4412	6	6446	9	5805	19	5821	26	5425	9	5443	9	7981	4	6095	16
25	HQPM 4(C)	8495	5	8633	13	3585	24	3975	13	6172	14	6168	14	7718	4	3890	24	5093	16	7310	10	6036	17
26	HQPM 5(C)	7030	23	8544	15	3288	27	3915	15	5694	19	6017	16	6495	23	4583	20	5354	11	7510	6	5992	20
27	HQPM 7(C)	7373	20	9151	9	6032	2	4230	11	6697	4	6609	7	7310	11	5240	11	4883	20	8779	1	6564	4
	Location Mean	**7833**		**8437**		**4261**		**3654**		**6046**		**5973**		**7099**		**5159**		**5169**		**7060**		**6092**	
	C.D. (5%)	1005		1031		540		926		875		1452		497		521		394		1018		777	
	C.V. (%)	7.83		7.45		6.16		15.45		-		14.83		4.27		6.16		4.65		8.8		-	
	F (Prob)	0		0		0		0				0		0		0		0		0			
	Plot Size	7.2		7.2		7.2		12		-		9.6		12		12		9.6		9		-	
	AGRONOMY DATA																						
	Sowing Date	29-06		20-06		22-06		8-08		-		22-06		25-06		8-07		23-07		29-06		-	
	Harvest Date	27-10		18-10		8-10		10-12		-		6-10		23-09		20-10		17-11		13-10		-	
	Irrigation Nos	-		3		-		-		-		7		5		7		2		-		-	
	Ferilizer Applied N	100		120		120		80		-		50		150		-		120		120		-	
	Ferilizer Applied P	60		60		60		60		-		24		60		-		60		60		-	
	Ferilizer Applied K	40		40		40		40		-		12		60		-		50		40		-	

LOCATIONS REJECTED DUE TO HIGH C.V. : SABO 23.9 %

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE														NEPZ ZN 3												PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	KALY	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	COIM	R	MEAN	R
1	IIMRQPMH 1608	2514	23	6594	2	4557	9	3605	17	4216	15	8732	1	3206	24	5036	4	4523	25	2010	26	6911	23	7804	24	8021	17	5854	23
2	REHQ2014-11	2517	22	4967	18	3815	19	2627	23	4040	16	4895	21	3944	21	3810	23	5033	22	2972	22	6997	22	7132	26	6949	26	5817	25
3	FQH 106	2873	14	3573	27	2801	26	3275	21	3747	18	3204	27	3639	23	3246	27	5023	23	4066	12	7140	21	9808	9	8081	16	6824	19
4	IIMRQPMH 1601	3283	3	4497	23	3812	20	3814	16	5147	9	6176	7	7057	3	4455	14	5869	12	5102	7	9414	2	9592	10	8598	11	7715	7
5	IIMRQPMH 1502	2588	19	4691	21	5156	7	5033	3	6414	2	4102	25	5212	15	4664	8	5648	15	5582	3	8340	11	8799	17	9751	3	7624	8
6	IIMRQPMH 1605	3054	12	4849	20	3767	22	4520	9	4678	13	5335	15	5252	12	4367	19	5964	10	5730	2	7883	13	9347	15	8444	13	7474	10
7	IIMRQPMH 1606	3219	5	3948	26	3321	24	3997	12	5803	3	6012	8	4210	20	4383	18	5629	17	3907	15	8976	4	10094	6	8425	14	7406	11
8	VEHQ-16-1	2266	25	5164	14	3872	17	5967	1	4823	11	4873	22	7223	1	4494	12	6795	4	4186	10	7815	14	11309	1	9156	6	7852	5
9	IIMRQPMH 1607	2232	26	4627	22	3859	18	3596	18	3093	22	5839	10	2768	26	3875	22	4754	24	3234	20	5789	26	8543	19	8539	12	6172	21
10	IIMRQPMH 1603	3220	4	5088	17	6309	2	4117	11	2967	25	5234	16	7215	2	4489	13	6351	8	3749	16	7320	19	9355	14	8996	8	7154	14
11	BQPMH 16	3212	7	5451	10	4297	10	5001	5	3706	21	4336	24	5334	11	4334	20	6869	2	5002	8	8573	10	9255	16	10443	2	8028	3
12	IIMRQPMH 1504*	3138	9	5095	16	4075	15	4514	10	4983	10	3877	26	6990	4	4280	21	6899	1	5991	1	8963	6	9990	8	7091	25	7787	6
13	IMHQPM 1530	2680	16	5917	9	5166	6	5006	4	3718	20	5027	19	4496	17	4586	10	5926	11	4127	11	8164	12	8036	23	8881	9	7027	15
14	IIMRQPMH 1604	2384	24	4257	24	4082	14	2500	24	2814	27	4354	23	2959	25	3399	25	5305	20	1537	27	7797	15	7564	25	6786	27	5798	26
15	IIMRQPMH 1610	2679	17	5960	8	3386	23	3849	15	5269	8	7506	4	4493	18	4775	6	5105	21	3558	18	5880	25	8241	21	7543	19	6065	22
16	IIMRQPMH 1609	3084	11	6014	5	4288	11	3989	13	4805	12	5159	17	4309	19	4557	11	5728	13	3088	21	7584	18	10064	7	8177	15	6928	16
17	QPM-MH-27	2698	15	5384	12	6315	1	3583	19	7631	1	5481	14	5238	14	5182	3	6708	5	5408	4	8698	8	10860	2	9590	4	8253	2
18	IIMRQPMH 1602	3100	10	6380	4	3768	21	4970	6	2908	26	5524	12	5495	9	4442	15	5728	14	3974	14	7721	16	10191	4	9087	7	7340	12
19	KDQH-51	2559	21	3979	25	2162	27	2007	26	3005	24	5830	11	2604	27	3257	26	3870	27	2115	25	5542	27	5943	27	7214	22	4937	27
20	IIMRQPMH 1508	2595	18	5433	11	4232	12	4643	8	4231	14	6937	5	3927	22	4679	7	5612	19	3349	19	7213	20	8272	20	7209	23	6331	20

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE														NEPZ ZN 3										PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	KALY	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	COIM	R	MEAN	R
21	IIMRQPMH 1501	3529	2	5095	15	5802	4	3139	22	3738	19	5087	18	6588	6	4398	16	6358	7	4909	9	9436	1	10513	3	10524	1	8348	1
	CHECKS																												
22	Pratap QPM Hybrid 1(C)	2099	27	5968	7	4008	16	3955	14	5352	7	4941	20	5693	7	4387	17	6814	3	4012	13	7668	17	8666	18	7406	21	6913	17
23	Vivek QPM 9(C)	3215	6	4943	19	3206	25	1936	27	3082	23	5995	9	5383	10	3730	24	4434	26	2732	24	6692	24	8118	22	7131	24	5821	24
24	HQPM 1(C)	2875	13	5265	13	4168	13	3518	20	5386	5	7926	2	6699	5	4856	5	5614	18	3568	17	8619	9	9428	11	8851	10	7216	13
25	HQPM 4(C)	2559	20	6753	1	5891	3	4814	7	5358	6	6552	6	5249	13	5321	2	6364	6	5308	5	8966	5	9419	12	7424	20	7496	9
26	HQPM 5(C)	5186	1	5990	6	4915	8	2430	25	3782	17	5490	13	4608	16	4632	9	5641	16	2807	23	8874	7	9414	13	7766	18	6901	18
27	HQPM 7(C)	3180	8	6564	3	5194	5	5341	2	5716	4	7633	3	5524	8	5605	1	6181	9	5135	6	9143	3	10184	5	9434	5	8015	4
	Location Mean	**2909**		**5276**		**4305**		**3917**		**4460**		**5632**		**5012**		**4416**		**5731**		**3969**		**7856**		**9109**		**8353**		**7004**	
	C.D. (5%)	736		333		821		706		794		1212		1965		767		1328		1154		1367		840		519		1042	
	C.V. (%)	15.44		3.85		11.64		10.99		10.86		13.13		**23.91**		**-**		14.14		17.74		10.61		5.63		3.79		**-**	
	F (Prob)	0		0		0		0		0		0		0				0		0		0		0		0			
	Plot Size	12		9.6		11.2		9.6		9.6		9.6		9.6		-		12		12		9.6		9.6		9.6		-	
	AGRONOMY DATA																												
	Sowing Date	7-07		13-07		9-07		23-06		25-06		26-06		3-07		-		22-06		16-07		27-06		5-08		13-07		-	
	Harvest Date	24-10		31-10		20-10		2-10		1-10		5-10		22-10		-		25-10		6-11		3-11		15-12		26-10		-	
	Irrigation Nos	2		-		120		-		-		-		3		-		4		4		3		8		11		-	
	Ferilizer Applied N	120		120		60		120		120		150		130		-		200		200		150		150		250		-	
	Ferilizer Applied P	60		60		40		60		60		75		40		-		60		60		65		75		75		-	
	Ferilizer Applied K	40		60		-		40		60		75		30		-		50		50		65		40		75		-	

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										CWZ ZN 5		OV'L	
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	MEAN	R	MEAN	R
1	IIMRQPMH 1608	6749	17	4279	9	5106	23	3101	21	5315	8	4910	19	5441	20
2	REHQ2014-11	7430	11	3993	14	5036	24	3051	22	4097	19	4721	21	4929	24
3	FQH 106	5702	24	3711	20	3732	26	3512	19	4963	10	4324	24	5017	23
4	IIMRQPMH 1601	7796	8	4771	4	6149	17	4709	5	5764	3	5838	5	6249	3
5	IIMRQPMH 1502	7122	13	4983	2	6837	9	4835	4	3193	23	5394	13	6005	10
6	IIMRQPMH 1605	6382	19	4575	7	6427	14	4237	10	5670	6	5458	11	5935	13
7	IIMRQPMH 1606	7339	12	4002	13	5979	20	4086	12	3498	21	4981	16	5665	16
8	VEHQ-16-1	9487	1	4717	6	6657	11	3553	18	4805	13	5844	4	6239	4
9	IIMRQPMH 1607	9242	2	3747	19	6358	15	2766	24	2735	25	4970	17	5395	21
10	IIMRQPMH 1603	8593	6	3752	18	7294	3	3831	16	6478	2	5989	2	6057	7
11	BQPMH 16	6087	22	4516	8	6859	8	5127	2	4478	16	5413	12	6054	8
12	IIMRQPMH 1504*	6077	23	4109	11	7114	5	4384	7	5639	7	5465	10	5949	12
13	IMHQPM 1530	8423	7	3870	16	7336	2	3021	23	4303	17	5391	14	6058	6
14	IIMRQPMH 1604	3377	27	4251	10	4487	25	3709	17	3456	22	3856	26	4675	26
15	IIMRQPMH 1610	6301	21	2996	27	5729	21	3413	20	4549	15	4597	23	5365	22
16	IIMRQPMH 1609	6586	18	4929	3	6968	6	4874	3	3160	24	5303	15	5644	17
17	QPM-MH-27	8684	5	3924	15	7288	4	3855	15	4739	14	5698	7	6230	5
18	IIMRQPMH 1602	7456	10	3787	17	6487	13	4350	8	5286	9	5473	9	5809	14
19	KDQH-51	6356	20	3572	23	3496	27	2549	26	2219	27	3638	27	4034	27
20	IIMRQPMH 1508	5152	25	3591	22	5698	22	4063	14	5673	5	4836	20	5562	18

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										CWZ ZN 5 MEAN	R	OV'L MEAN	R
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R				
21	IIMRQPMH 1501	6953	15	5505	1	7873	1	5161	1	4900	12	6078	1	6335	2
	CHECKS														
22	Pratap QPM Hybrid 1(C)	8926	4	3565	24	6692	10	2711	25	5686	4	5516	8	5706	15
23	Vivek QPM 9(C)	4214	26	3200	25	6012	19	4337	9	2585	26	4070	25	4887	25
24	HQPM 1(C)	8988	3	4081	12	6588	12	4155	11	4958	11	5754	6	6010	9
25	HQPM 4(C)	7474	9	3118	26	6351	16	4081	13	3734	20	4952	18	5961	11
26	HQPM 5(C)	6870	16	3666	21	6141	18	2496	27	4279	18	4690	22	5539	19
27	HQPM 7(C)	6956	14	4752	5	6953	7	4564	6	6496	1	5944	3	6521	1
	Location Mean	**7064**		**4073**		**6209**		**3872**		**4543**		**5152**		**5677**	
	C.D. (5%)	518		751		1060		812		511		730		834	
	C.V. (%)	4.47		11.25		10.42		12.79		6.87		-		-	
	F (Prob)	0		0		0		0		0					
	Plot Size	9.6		9.6		12		12		4.8		-		-	
	AGRONOMY DATA														
	Sowing Date	19-07		27-06		17-07		5-07		8-07		-		-	
	Harvest Date	3-11		19-10		3-12		-		25-10		-		-	
	Irrigation Nos	1		-		-		-		-		-		-	
	Ferilizer Applied N	120		150		120		120		120		-		-	
	Ferilizer Applied P	90		80		60		60		60		-		-	
	Ferilizer Applied K	-		-		40		40		-		-		-	

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Pratap QPM Hybrid 1(C)												NWPZ	
		NHZ(ZN 1)												ZN 2	
		ALMO	R	BAJA	R	KANG	R	IMPH	R	MEAN	R	LUDH	R	KARN	R	DELH	R	KANP	R	PANT	R	MEAN	R
1	IIMRQPMH 1608	-		-		-		-		-		9.5		-		25.3		-		1.5	
2	REHQ2014-11	-		-		-		-		-		-		-		32.5		-		-	
3	FQH 106	-		-		0.6		0.3		-		-		-		-		6.1		9.2		-	
4	IIMRQPMH 1601	11.6		24.2		12.2		-		8.1		30.2		-		40.3		12.8		24.7		18.6	
5	IIMRQPMH 1502	12.9		5.7		23.5		-		3.6		0.2		8.4		20.5		10.1		-		6.7	
6	IIMRQPMH 1605	8.4		12.6		11.9		-		3		14.1		-		-		20.9		12.2		8.7	
7	IIMRQPMH 1606	5.3		2.9		16.8		-		2.7		-		-		-		-		0.5		-	
8	VEHQ-16-1	9.5		12.5		10.6		2.3		9.4		8.1		4.7		49.7		-		11		13.5	
9	IIMRQPMH 1607	7.3		-		13.3		22.6		2.2		12.2		4.1		-		14.1		12.6		4	
10	IIMRQPMH 1603	17		18.8		-		-		11.7		11		0.7		10.5		5.2		3.8		5.9	
11	BQPMH 16	10.9		0.2		29.5		11.3		10.3		9.2		0.3		9.8		-		10.4		4.9	
12	IIMRQPMH 1504*	10		18		-		-		7.8		15.5		-		-		11.3		-		2.4	
13	IMHQPM 1530	25.5		15.8		67.2		6.3		25.4		10.9		7.2		-		13.2		5.2		5.1	
14	IIMRQPMH 1604	-		-		15		-		-		-		4.7		-		-		-		-	
15	IIMRQPMH 1610	1		-		24.6		-		-		9		7.5		-		-		2.7		1.8	
16	IIMRQPMH 1609	1.8		-		-		-		-		22		-		-		13.7		13.3		3.8	
17	QPM-MH-27	10.5		7.4		-		-		-		4.3		-		-		5.7		32		6.3	
18	IIMRQPMH 1602	13.4		5.3		10		-		1		1.3		-		-		0.5		6.1		0.3	
19	KDQH-51	-		-		1.1		-		-		-		-		-		-		-		-	
20	IIMRQPMH 1508	3.7		2		21.2		5.5		6.3		-		8.8		-		0.2		4.6		-	
21	IIMRQPMH 1501	9.6		14.7		-		21.9		11.5		12.4		7		22.5		-		14.2		9.6	
	CHECKS																						
22	Pratap QPM Hybrid 1(C)	-		-		-		-		-		-		-		-		-		-		-	
23	Vivek QPM 9(C)	-		-		-		-		-		-		0.8		-		4.4		7.2		-	
24	HQPM 1(C)	12.5		12		-		2.4		7		-		-		-		10.7		21.3		1.3	
25	HQPM 4(C)	12.6		3.4		-		-		2.4		3.7		7.7		-		3.6		11.1		0.3	
26	HQPM 5(C)	-		2.3		-		-		-		1.1		-		-		8.9		14.2		-	
27	HQPM 7(C)	-		9.6		54.7		-		11.1		11.1		2		-		-		33.5		9.1	

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Pratap QPM Hybrid 1(C)																		NEPZ ZN 3 MEAN	R	PZ ZN 4 MEAN	R
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	KALY	R	SABO	R	HYDE	R	KARI	R	DHAR	R	MAND	R	COIM			
1	IIMRQPMH 1608	19.8		10.5		13.7		-		-		76.7		-		14.8		-		-		-		8.3		-	
2	REHQ2014-11	19.9		-		-		-		-		-		-		-		-		-		-		-		-	
3	FQH 106	36.9		-		-		-		-		-		-		-		1.4		-		13.2		9.1		-	
4	IIMRQPMH 1601	56.4		-		-		-		-		25		24		1.5		-		27.2		22.8		10.7		16.1		11.6	
5	IIMRQPMH 1502	23.3		-		28.6		27.2		19.8		-		-		6.3		-		39.1		8.8		1.5		31.7		10.3	
6	IIMRQPMH 1605	45.4		-		-		14.3		-		8		-		-		-		42.8		2.8		7.9		14		8.1	
7	IIMRQPMH 1606	53.3		-		-		1		8.4		21.7		-		-		-		-		17.1		16.5		13.8		7.1	
8	VEHQ-16-1	8		-		-		50.8		-		-		26.9		2.4		-		4.3		1.9		30.5		23.6		13.6	
9	IIMRQPMH 1607	6.3		-		-		-		-		18.2		-		-		-		-		-		-		15.3		-	
10	IIMRQPMH 1603	53.4		-		57.4		4.1		-		5.9		26.7		2.3		-		-		-		7.9		21.5		3.5	
11	BQPMH 16	53		-		7.2		26.4		-		-		-		-		0.8		24.7		11.8		6.8		41		16.1	
12	IIMRQPMH 1504*	49.5		-		1.7		14.1		-		-		22.8		-		1.3		49.4		16.9		15.3		-		12.6	
13	IMHQPM 1530	27.6		-		28.9		26.6		-		1.8		-		4.5		-		2.9		6.5		-		19.9		1.6	
14	IIMRQPMH 1604	13.6		-		1.9		-		-		-		-		-		-		-		1.7		-		-		-	
15	IIMRQPMH 1610	27.6		-		-		-		-		51.9		-		8.8		-		-		-		-		1.9		-	
16	IIMRQPMH 1609	46.9		0.8		7		0.8		-		4.4		-		3.9		-		-		-		16.1		10.4		0.2	
17	QPM-MH-27	28.5		-		57.6		-		42.6		10.9		-		18.1		-		34.8		13.4		25.3		29.5		19.4	
18	IIMRQPMH 1602	47.7		6.9		-		25.7		-		11.8		-		1.2		-		-		0.7		17.6		22.7		6.2	
19	KDQH-51	21.9		-		-		-		-		18		-		-		-		-		-		-		-		-	
20	IIMRQPMH 1508	23.6		-		5.6		17.4		-		40.4		-		6.6		-		-		-		-		-		-	
21	IIMRQPMH 1501	68.1		-		44.8		-		-		3		15.7		0.2		-		22.4		23.1		21.3		42.1		20.8	
	CHECKS																												
22	Pratap QPM Hybrid 1(C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
23	Vivek QPM 9(C)	53.1		-		-		-		-		21.3		-		-		-		-		-		-		-		-	
24	HQPM 1(C)	37		-		4		-		0.6		60.4		17.7		10.7		-		-		12.4		8.8		19.5		4.4	
25	HQPM 4(C)	21.9		13.1		47		21.7		0.1		32.6		-		21.3		-		32.3		16.9		8.7		0.2		8.4	
26	HQPM 5(C)	147		0.4		22.6		-		-		11.1		-		5.6		-		-		15.7		8.6		4.9		-	
27	HQPM 7(C)	51.4		10		29.6		35		6.8		54.5		-		27.7		-		28		19.2		17.5		27.4		15.9	

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Pratap QPM Hybrid 1(C)											
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	CWZ(ZN 5) MEAN	R	OV'L MEAN	R
1	IIMRQPMH 1608	-		20		-		14.4		-		-		-	
2	REHQ2014-11	-		12		-		12.5		-		-		-	
3	FQH 106	-		4.1		-		29.5		-		-		-	
4	IIMRQPMH 1601	-		33.8		-		73.7		1.4		5.8		9.5	
5	IIMRQPMH 1502	-		39.8		2.2		78.3		-		-		5.2	
6	IIMRQPMH 1605	-		28.3		-		56.3		-		-		4	
7	IIMRQPMH 1606	-		12.2		-		50.7		-		-		-	
8	VEHQ-16-1	6.3		32.3		-		31		-		5.9		9.3	
9	IIMRQPMH 1607	3.5		5.1		-		2		-		-		-	
10	IIMRQPMH 1603	-		5.2		9		41.3		13.9		8.6		6.2	
11	BQPMH 16	-		26.7		2.5		89.1		-		-		6.1	
12	IIMRQPMH 1504*	-		15.2		6.3		61.7		-		-		4.3	
13	IMHQPM 1530	-		8.5		9.6		11.4		-		-		6.2	
14	IIMRQPMH 1604	-		19.2		-		36.8		-		-		-	
15	IIMRQPMH 1610	-		-		-		25.9		-		-		-	
16	IIMRQPMH 1609	-		38.3		4.1		79.8		-		-		-	
17	QPM-MH-27	-		10.1		8.9		42.2		-		3.3		9.2	
18	IIMRQPMH 1602	-		6.2		-		60.5		-		-		1.8	
19	KDQH-51	-		0.2		-		-		-		-		-	
20	IIMRQPMH 1508	-		0.7		-		49.9		-		-		-	
21	IIMRQPMH 1501	-		54.4		17.7		90.4		-		10.2		11	
	CHECKS														
22	Pratap QPM Hybrid 1(C)	-		-		-		-		-		-		-	
23	Vivek QPM 9(C)	-		-		-		60		-		-		-	
24	HQPM 1(C)	0.7		14.5		-		53.3		-		4.3		5.3	
25	HQPM 4(C)	-		-		-		50.5		-		-		4.5	
26	HQPM 5(C)	-		2.8		-		-		-		-		-	
27	HQPM 7(C)	-		33.3		3.9		68.4		14.3		7.8		14.3	

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM 9(C)																NWPZ ZN 2	
								NHZ(ZN 1)											
		ALMO	R	BAJA	R	KANG	R	IMPH	R	MEAN	R	LUDH	R	KARN	R	DELH	R	KANP	R	PANT	R	MEAN	R
1	IIMRQPMH 1608	-		5.3		7		-		-		16.1		8.6		6		20		-		6.3	
2	REHQ2014-11	1.5		-		12		-		-		7.9		-		-		26.9		-		-	
3	FQH 106	7.6		-		14.9		8.6		1.2		26.7		-		-		1.6		1.9		-	
4	IIMRQPMH 1601	25.2		38.2		28.2		-		20.5		84.3		-		50.1		8		16.3		24.2	
5	IIMRQPMH 1502	26.7		17.6		41.2		-		15.4		41.8		7.5		29		5.4		-		11.7	
6	IIMRQPMH 1605	21.6		25.2		27.8		-		14.8		61.6		-		6.3		15.8		4.7		13.8	
7	IIMRQPMH 1606	18.1		14.4		33.5		-		14.5		25.9		-		1.2		-		-		-	
8	VEHQ-16-1	22.9		25.1		26.4		10.8		22		53.1		3.8		60.2		-		3.6		18.9	
9	IIMRQPMH 1607	20.4		-		29.5		32.7		14		58.9		3.2		-		9.3		5.1		8.9	
10	IIMRQPMH 1603	31.3		32.1		13.4		8		24.5		57.2		-		18.2		0.8		-		10.9	
11	BQPMH 16	24.5		11.4		47.9		20.5		22.9		54.6		-		17.5		-		3		9.8	
12	IIMRQPMH 1504*	23.4		31.2		13.8		-		20.2		63.5		-		-		6.6		-		7.2	
13	IMHQPM 1530	40.8		28.7		91.1		15.1		39.8		57		6.3		-		8.4		-		10.1	
14	IIMRQPMH 1604	7.1		-		31.4		-		-		25.7		3.8		-		-		-		-	
15	IIMRQPMH 1610	13.3		-		42.4		-		-		54.3		6.6		1.2		-		-		6.6	
16	IIMRQPMH 1609	14.2		2		10.7		-		-		72.6		-		-		8.9		5.7		8.7	
17	QPM-MH-27	23.9		19.5		14.2		-		5.9		47.6		-		-		1.2		23.2		11.4	
18	IIMRQPMH 1602	27.2		17.1		25.7		-		12.5		43.4		-		0.5		-		-		5	
19	KDQH-51	-		-		15.5		-		-		-		-		-		-		-		-	
20	IIMRQPMH 1508	16.3		13.5		38.5		14.2		18.4		33		7.9		-		-		-		2.8	
21	IIMRQPMH 1501	23		27.5		10.6		31.9		24.3		59.1		6.1		31.1		-		6.6		14.8	
	CHECKS																						
22	Pratap QPM Hybrid 1(C)	12.2		11.2		14.3		8.3		11.5		41.6		-		7		-		-		4.7	
23	Vivek QPM 9(C)	-		-		-		-		-		-		-		-		-		-		-	
24	HQPM 1(C)	26.2		24.6		3.4		10.8		19.2		38.1		-		6.2		6		13.2		6.1	
25	HQPM 4(C)	26.3		15		5.1		-		14.2		46.8		6.8		-		-		3.7		5.1	
26	HQPM 5(C)	4.5		13.8		-		-		5.3		43.2		-		-		4.3		6.5		4.3	
27	HQPM 7(C)	9.6		21.8		76.8		6.3		23.8		57.3		1.1		2.6		-		24.5		14.3	

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM 9(C)								NEPZ ZN 3								PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	KALY	R	SABO	R	MEAN	R	HYDE	R
1	IIMRQPMH 1608	-		33.4		42.1		86.2		36.8		45.7		-		35		2	
2	REHQ2014-11	-		0.5		19		35.7		31.1		-		-		2.2		13.5	
3	FQH 106	-		-		-		69.2		21.6		-		-		-		13.3	
4	IIMRQPMH 1601	2.1		-		18.9		97		67		3		31.1		19.4		32.4	
5	IIMRQPMH 1502	-		-		60.8		160		108.1		-		-		25.1		27.4	
6	IIMRQPMH 1605	-		-		17.5		133.4		51.8		-		-		17.1		34.5	
7	IIMRQPMH 1606	0.1		-		3.6		106.5		88.3		0.3		-		17.5		26.9	
8	VEHQ-16-1	-		4.5		20.8		208.2		56.5		-		34.2		20.5		53.2	
9	IIMRQPMH 1607	-		-		20.4		85.7		0.4		-		-		3.9		7.2	
10	IIMRQPMH 1603	0.2		2.9		96.8		112.7		-		-		34		20.4		43.2	
11	BQPMH 16	-		10.3		34		158.3		20.2		-		-		16.2		54.9	
12	IIMRQPMH 1504*	-		3.1		27.1		133.1		61.7		-		29.8		14.8		55.6	
13	IMHQPM 1530	-		19.7		61.1		158.6		20.6		-		-		23		33.6	
14	IIMRQPMH 1604	-		-		27.3		29.1		-		-		-		-		19.6	
15	IIMRQPMH 1610	-		20.6		5.6		98.8		70.9		25.2		-		28		15.1	
16	IIMRQPMH 1609	-		21.7		33.7		106		55.9		-		-		22.2		29.2	
17	QPM-MH-27	-		8.9		97		85.1		147.6		-		-		38.9		51.3	
18	IIMRQPMH 1602	-		29.1		17.5		156.7		-		-		2.1		19.1		29.2	
19	KDQH-51	-		-		-		3.7		-		-		-		-		-	
20	IIMRQPMH 1508	-		9.9		32		139.8		37.3		15.7		-		25.4		26.6	
21	IIMRQPMH 1501	9.8		3.1		81		62.1		21.3		-		22.4		17.9		43.4	
	CHECKS																		
22	Pratap QPM Hybrid 1(C)	-		20.7		25		104.3		73.6		-		5.8		17.6		53.7	
23	Vivek QPM 9(C)	-		-		-		-		-		-		-		-		-	
24	HQPM 1(C)	-		6.5		30		81.7		74.7		32.2		24.4		30.2		26.6	
25	HQPM 4(C)	-		36.6		83.7		148.7		73.8		9.3		-		42.7		43.5	
26	HQPM 5(C)	61.3		21.2		53.3		25.5		22.7		-		-		24.2		27.2	
27	HQPM 7(C)	-		32.8		62		175.9		85.4		27.3		2.6		50.3		39.4	

Sl No	PEDIGREE	NEPZ ZN 3								PZ ZN 4	
		KARI	R	DHAR	R	MAND	R	COIM	R	MEAN	R
1	IIMRQPMH 1608	-		3.3		-		12.5		0.6	
2	REHQ2014-11	8.8		4.5		-		-		-	
3	FQH 106	48.8		6.7		20.8		13.3		17.2	
4	IIMRQPMH 1601	86.8		40.7		18.2		20.6		32.5	
5	IIMRQPMH 1502	104.3		24.6		8.4		36.7		31	
6	IIMRQPMH 1605	109.8		17.8		15.1		18.4		28.4	
7	IIMRQPMH 1606	43		34.1		24.3		18.2		27.2	
8	VEHQ-16-1	53.2		16.8		39.3		28.4		34.9	
9	IIMRQPMH 1607	18.4		-		5.2		19.7		6	
10	IIMRQPMH 1603	37.2		9.4		15.2		26.2		22.9	
11	BQPMH 16	83.1		28.1		14		46.4		37.9	
12	IIMRQPMH 1504*	119.3		33.9		23.1		-		33.8	
13	IMHQPM 1530	51.1		22		-		24.5		20.7	
14	IIMRQPMH 1604	-		16.5		-		-		-	
15	IIMRQPMH 1610	30.3		-		1.5		5.8		4.2	
16	IIMRQPMH 1609	13.1		13.3		24		14.7		19	
17	QPM-MH-27	98		30		33.8		34.5		41.8	
18	IIMRQPMH 1602	45.5		15.4		25.5		27.4		26.1	
19	KDQH-51	-		-		-		1.2		-	
20	IIMRQPMH 1508	22.6		7.8		1.9		1.1		8.8	
21	IIMRQPMH 1501	79.7		41		29.5		47.6		43.4	
	CHECKS										
22	Pratap QPM Hybrid 1(C)	46.9		14.6		6.8		3.9		18.8	
23	Vivek QPM 9(C)	-		-		-		-		-	
24	HQPM 1(C)	30.6		28.8		16.1		24.1		24	
25	HQPM 4(C)	94.3		34		16		4.1		28.8	
26	HQPM 5(C)	2.8		32.6		16		8.9		18.5	
27	HQPM 7(C)	88		36.6		25.5		32.3		37.7	

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM 9(C)										CWZ(ZN 5)		OV'L	
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	MEAN	R	MEAN	R
1	IIMRQPMH 1608	60.1		33.7		-		-		105.6		20.6		11.3	
2	REHQ2014-11	76.3		24.8		-		-		58.5		16		0.9	
3	FQH 106	35.3		16		-		-		92		6.2		2.7	
4	IIMRQPMH 1601	85		49.1		2.3		8.6		123		43.4		27.9	
5	IIMRQPMH 1502	69		55.7		13.7		11.5		23.5		32.5		22.9	
6	IIMRQPMH 1605	51.4		43		6.9		-		119.4		34.1		21.4	
7	IIMRQPMH 1606	74.1		25.1		-		-		35.3		22.4		15.9	
8	VEHQ-16-1	125.1		47.4		10.7		-		85.9		43.6		27.7	
9	IIMRQPMH 1607	119.3		17.1		5.8		-		5.8		22.1		10.4	
10	IIMRQPMH 1603	103.9		17.3		21.3		-		150.6		47.2		23.9	
11	BQPMH 16	44.4		41.1		14.1		18.2		73.3		33		23.9	
12	IIMRQPMH 1504*	44.2		28.4		18.3		1.1		118.2		34.3		21.7	
13	IMHQPM 1530	99.9		20.9		22		-		66.5		32.5		24	
14	IIMRQPMH 1604	-		32.8		-		-		33.7		-		-	
15	IIMRQPMH 1610	49.5		-		-		-		76		13		9.8	
16	IIMRQPMH 1609	56.3		54.1		15.9		12.4		22.2		30.3		15.5	
17	QPM-MH-27	106		22.6		21.2		-		83.4		40		27.5	
18	IIMRQPMH 1602	76.9		18.3		7.9		0.3		104.5		34.5		18.9	
19	KDQH-51	50.8		11.6		-		-		-		-		-	
20	IIMRQPMH 1508	22.3		12.2		-		-		119.5		18.8		13.8	
21	IIMRQPMH 1501	65		72		31		19		89.6		49.4		29.6	
	CHECKS														
22	Pratap QPM Hybrid 1(C)	111.8		11.4		11.3		-		120		35.5		16.8	
23	Vivek QPM 9(C)	-		-		-		-		-		-		-	
24	HQPM 1(C)	113.3		27.5		9.6		-		91.8		41.4		23	
25	HQPM 4(C)	77.3		-		5.7		-		44.5		21.7		22	
26	HQPM 5(C)	63		14.6		2.2		-		65.5		15.3		13.3	
27	HQPM 7(C)	65.1		48.5		15.7		5.2		151.3		46.1		33.4	

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM 1(C)																NWPZ ZN 2	
		NHZ(ZN 1)																	
		ALMO	R	BAJA	R	KANG	R	IMPH	R	MEAN	R	LUDH	R	KARN	R	DELH	R	KANP	R	PANT	R	MEAN	R
1	IIMRQPMH 1608	-		-		3.5		-		-		-		34.9		-		13.1		-		0.1	
2	REHQ2014-11	-		-		8.4		-		-		-		0.8		-		19.7		-		-	
3	FQH 106	-		-		11.2		-		-		-		-		-		-		-		-	
4	IIMRQPMH 1601	-		10.9		24		-		1.1		33.4		11.8		41.3		1.8		2.7		17	
5	IIMRQPMH 1502	0.4		-		36.6		-		-		2.7		33.4		21.4		-		-		5.3	
6	IIMRQPMH 1605	-		0.5		23.7		-		-		17		22.8		0.1		9.2		-		7.3	
7	IIMRQPMH 1606	-		-		29.1		-		-		-		18.2		-		-		-		-	
8	VEHQ-16-1	-		0.4		22.3		-		2.3		10.8		28.9		50.8		-		-		12	
9	IIMRQPMH 1607	-		-		25.2		19.8		-		15		28.2		-		3		-		2.6	
10	IIMRQPMH 1603	4		6.1		9.7		-		4.4		13.8		24		11.3		-		-		4.5	
11	BQPMH 16	-		-		43.1		8.8		3.1		11.9		23.6		10.6		-		-		3.5	
12	IIMRQPMH 1504*	-		5.4		10.1		-		0.8		18.3		22.8		-		0.5		-		1	
13	IMHQPM 1530	11.5		3.3		84.8		3.8		17.3		13.6		32.1		-		2.2		-		3.8	
14	IIMRQPMH 1604	-		-		27.1		-		-		-		28.9		-		-		-		-	
15	IIMRQPMH 1610	-		-		37.8		-		-		11.7		32.3		-		-		-		0.5	
16	IIMRQPMH 1609	-		-		7.1		-		-		25		21		-		2.7		-		2.5	
17	QPM-MH-27	-		-		10.5		-		-		6.9		21.2		-		-		8.8		5	
18	IIMRQPMH 1602	0.8		-		21.6		-		-		3.8		21.7		-		-		-		-	
19	KDQH-51	-		-		11.7		-		-		-		4.3		-		-		-		-	
20	IIMRQPMH 1508	-		-		34		3		-		-		34		-		-		-		-	
21	IIMRQPMH 1501	-		2.4		7		19		4.2		15.2		31.8		23.4		-		-		8.2	
	CHECKS																						
22	Pratap QPM Hybrid 1(C)	-		-		10.5		-		-		2.5		23.1		0.7		-		-		-	
23	Vivek QPM 9(C)	-		-		-		-		-		-		24.2		-		-		-		-	
24	HQPM 1(C)	-		-		-		-		-		-		-		-		-		-		-	
25	HQPM 4(C)	0.1		-		1.7		-		-		6.2		32.6		-		-		-		-	
26	HQPM 5(C)	-		-		-		-		-		3.6		11.6		-		-		-		-	
27	HQPM 7(C)	-		-		71		-		3.9		13.9		25.6		-		-		10		7.7	

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM 1(C)												NEPZ ZN 3 MEAN	R										PZ ZN 4 MEAN	R
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	KALY	R	SABO	R			HYDE	R	KARI	R	DHAR	R	MAND	R	COIM		
1	IIMRQPMH 1608	-		25.2		9.3		2.5		-		10.2		-		3.7		-		-		-		-		-		
2	REHQ2014-11	-		-		-		-		-		-		-		-		-		-		-		-		-		
3	FQH 106	-		-		-		-		-		-		-		-		-		13.9		-		4		-		
4	IIMRQPMH 1601	14.2		-		-		8.4		-		-		5.4		-		4.5		43		9.2		1.7		-		6.9
5	IIMRQPMH 1502	-		-		23.7		43		19.1		-		-		-		0.6		56.4		-		-		10.2		5.7
6	IIMRQPMH 1605	6.2		-		-		28.5		-		-		-		-		6.2		60.6		-		-		-		3.6
7	IIMRQPMH 1606	12		-		-		13.6		7.7		-		-		-		0.3		9.5		4.1		7.1		-		2.6
8	VEHQ-16-1	-		-		-		69.6		-		-		7.8		-		21		17.3		-		19.9		3.5		8.8
9	IIMRQPMH 1607	-		-		-		2.2		-		-		-		-		-		-		-		-		-		-
10	IIMRQPMH 1603	12		-		51.3		17		-		-		7.7		-		13.1		5		-		-		1.6		-
11	BQPMH 16	11.7		3.5		3.1		42.1		-		-		-		-		22.4		40.2		-		-		18		11.3
12	IIMRQPMH 1504*	9.1		-		-		28.3		-		-		4.3		-		22.9		67.9		4		6		-		7.9
13	IMHQPM 1530	-		12.4		23.9		42.3		-		-		-		-		5.6		15.6		-		-		0.3		-
14	IIMRQPMH 1604	-		-		-		-		-		-		-		-		-		-		-		-		-		-
15	IIMRQPMH 1610	-		13.2		-		9.4		-		-		-		-		-		-		-		-		-		-
16	IIMRQPMH 1609	7.3		14.2		2.9		13.4		-		-		-		-		2		-		-		6.7		-		-
17	QPM-MH-27	-		2.3		51.5		1.8		41.7		-		-		6.7		19.5		51.6		0.9		15.2		8.4		14.4
18	IIMRQPMH 1602	7.8		21.2		-		41.3		-		-		-		-		2		11.4		-		8.1		2.7		1.7
19	KDQH-51	-		-		-		-		-		-		-		-		-		-		-		-		-		-
20	IIMRQPMH 1508	-		3.2		1.5		32		-		-		-		-		-		-		-		-		-		-
21	IIMRQPMH 1501	22.7		-		39.2		-		-		-		-		-		13.3		37.6		9.5		11.5		18.9		15.7
	CHECKS																											
22	Pratap QPM Hybrid 1(C)	-		13.4		-		12.4		-		-		-		-		21.4		12.4		-		-		-		-
23	Vivek QPM 9(C)	11.8		-		-		-		-		-		-		-		-		-		-		-		-		-
24	HQPM 1(C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-
25	HQPM 4(C)	-		28.3		41.3		36.8		-		-		-		9.6		13.4		48.8		4		-		-		3.9
26	HQPM 5(C)	80.3		13.8		17.9		-		-		-		-		-		0.5		-		3		-		-		-
27	HQPM 7(C)	10.6		24.7		24.6		51.8		6.1		-		-		15.4		10.1		43.9		6.1		8		6.6		11.1

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM 1(C)											
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	CWZ(ZN 5) MEAN	R	OV'L MEAN	R
1	IIMRQPMH 1608	-		4.9		-		-		7.2		-		-	
2	REHQ2014-11	-		-		-		-		-		-		-	
3	FQH 106	-		-		-		-		0.1		-		-	
4	IIMRQPMH 1601	-		16.9		-		13.3		16.2		1.5		4	
5	IIMRQPMH 1502	-		22.1		3.8		16.4		-		-		-	
6	IIMRQPMH 1605	-		12.1		-		2		14.4		-		-	
7	IIMRQPMH 1606	-		-		-		-		-		-		-	
8	VEHQ-16-1	5.6		15.6		1		-		-		1.6		3.8	
9	IIMRQPMH 1607	2.8		-		-		-		-		-		-	
10	IIMRQPMH 1603	-		-		10.7		-		30.6		4.1		0.8	
11	BQPMH 16	-		10.7		4.1		23.4		-		-		0.7	
12	IIMRQPMH 1504*	-		0.7		8		5.5		13.7		-		-	
13	IMHQPM 1530	-		-		11.3		-		-		-		0.8	
14	IIMRQPMH 1604	-		4.2		-		-		-		-		-	
15	IIMRQPMH 1610	-		-		-		-		-		-		-	
16	IIMRQPMH 1609	-		20.8		5.8		17.3		-		-		-	
17	QPM-MH-27	-		-		10.6		-		-		-		3.7	
18	IIMRQPMH 1602	-		-		-		4.7		6.6		-		-	
19	KDQH-51	-		-		-		-		-		-		-	
20	IIMRQPMH 1508	-		-		-		-		14.4		-		-	
21	IIMRQPMH 1501	-		34.9		19.5		24.2		-		5.6		5.4	
	CHECKS														
22	Pratap QPM Hybrid 1(C)	-		-		1.6		-		14.7		-		-	
23	Vivek QPM 9(C)	-		-		-		4.4		-		-		-	
24	HQPM 1(C)	-		-		-		-		-		-		-	
25	HQPM 4(C)	-		-		-		-		-		-		-	
26	HQPM 5(C)	-		-		-		-		-		-		-	
27	HQPM 7(C)	-		16.4		5.5		9.9		31		3.3		8.5	

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM 4(C)																		NWPZ ZN 2	
								NHZ(ZN 1)													
		ALMO	R	BAJA	R	KANG	R	IMPH	R	MEAN	R	LUDH	R	KARN	R	DELH	R	KANP	R	PANT	R	MEAN	R
1	IIMRQPMH 1608	-		-		1.8		-		-		-		1.7		39.2		20.9		-		1.1	
2	REHQ2014-11	-		-		6.6		-		-		-		-		0.1		27.9		-		-	
3	FQH 106	-		-		9.4		8.8		-		-		-		24.5		2.4		-		-	
4	IIMRQPMH 1601	-		20.2		22		-		5.6		25.6		-		97.1		8.8		12.2		18.2	
5	IIMRQPMH 1502	0.3		2.3		34.3		-		1.1		-		0.7		69.3		6.3		-		6.3	
6	IIMRQPMH 1605	-		8.9		21.7		-		0.6		10.1		-		39.6		16.7		0.9		8.3	
7	IIMRQPMH 1606	-		-		27		-		0.3		-		-		32.9		-		-		-	
8	VEHQ-16-1	-		8.8		20.3		10.9		6.9		4.3		-		110.3		-		-		13.1	
9	IIMRQPMH 1607	-		-		23.2		32.9		-		8.2		-		6.2		10.1		1.3		3.7	
10	IIMRQPMH 1603	4		14.9		7.9		8.2		9		7.1		-		55.2		1.5		-		5.6	
11	BQPMH 16	-		-		40.8		20.7		7.7		5.3		-		54.2		-		-		4.5	
12	IIMRQPMH 1504*	-		14.2		8.3		-		5.3		11.4		-		27.1		7.4		-		2	
13	IMHQPM 1530	11.5		12		81.8		15.2		22.5		6.9		-		24.8		9.3		-		4.8	
14	IIMRQPMH 1604	-		-		25		-		-		-		-		-		-		-		-	
15	IIMRQPMH 1610	-		-		35.5		-		-		5.1		-		32.8		-		-		1.5	
16	IIMRQPMH 1609	-		-		5.3		-		-		17.6		-		-		9.8		1.9		3.5	
17	QPM-MH-27	-		3.9		8.7		-		-		0.6		-		24.6		2		18.8		6	
18	IIMRQPMH 1602	0.7		1.9		19.6		-		-		-		-		32		-		-		-	
19	KDQH-51	-		-		9.9		-		-		-		-		-		-		-		-	
20	IIMRQPMH 1508	-		-		31.8		14.3		3.8		-		1.1		11.2		-		-		-	
21	IIMRQPMH 1501	-		10.9		5.3		32.1		8.9		8.4		-		72.1		-		2.7		9.2	
	CHECKS																						
22	Pratap QPM Hybrid 1(C)	-		-		8.7		8.4		-		-		-		40.5		-		-		-	
23	Vivek QPM 9(C)	-		-		-		0.1		-		-		-		31.3		0.8		-		-	
24	HQPM 1(C)	-		8.4		-		11		4.4		-		-		39.5		6.9		9.2		1	
25	HQPM 4(C)	-		-		-		-		-		-		-		-		-		-		-	
26	HQPM 5(C)	-		-		-		-		-		-		-		17.8		5.1		2.7		-	
27	HQPM 7(C)	-		6		68.2		6.4		8.5		7.2		-		34.7		-		20.1		8.8	

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM 4(C)												NEPZ ZN 3										PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	KALY	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	COIM	R	MEAN	R
1	IIMRQPMH 1608	-		-		-		-		-		33.3		-		-		-		-		-		-		8		-	
2	REHQ2014-11	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
3	FQH 106	12.3		-		-		-		-		-		-		-		-		-		-		4.1		8.8		-	
4	IIMRQPMH 1601	28.3		-		-		-		-		-		34.5		-		-		-		5		1.8		15.8		2.9	
5	IIMRQPMH 1502	1.1		-		-		4.5		19.7		-		-		-		-		5.2		-		-		31.4		1.7	
6	IIMRQPMH 1605	19.3		-		-		-		-		-		0.1		-		-		7.9		-		-		13.7		-	
7	IIMRQPMH 1606	25.8		-		-		-		8.3		-		-		-		-		-		0.1		7.2		13.5		-	
8	VEHQ-16-1	-		-		-		23.9		-		-		37.6		-		6.8		-		-		20.1		23.3		4.7	
9	IIMRQPMH 1607	-		-		-		-		-		-		-		-		-		-		-		-		15		-	
10	IIMRQPMH 1603	25.8		-		7.1		-		-		-		37.4		-		-		-		-		-		21.2		-	
11	BQPMH 16	25.5		-		-		3.9		-		-		1.6		-		7.9		-		-		-		40.7		7.1	
12	IIMRQPMH 1504*	22.6		-		-		-		-		-		33.2		-		8.4		12.9		-		6.1		-		3.9	
13	IMHQPM 1530	4.7		-		-		4		-		-		-		-		-		-		-		-		19.6		-	
14	IIMRQPMH 1604	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
15	IIMRQPMH 1610	4.7		-		-		-		-		14.6		-		-		-		-		-		-		1.6		-	
16	IIMRQPMH 1609	20.5		-		-		-		-		-		-		-		-		-		-		6.9		10.1		-	
17	QPM-MH-27	5.4		-		7.2		-		42.4		-		-		-		5.4		1.9		-		15.3		29.2		10.1	
18	IIMRQPMH 1602	21.1		-		-		3.2		-		-		4.7		-		-		-		-		8.2		22.4		-	
19	KDQH-51	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
20	IIMRQPMH 1508	1.4		-		-		-		-		5.9		-		-		-		-		-		-		-		-	
21	IIMRQPMH 1501	37.9		-		-		-		-		-		25.5		-		-		-		5.2		11.6		41.8		11.4	
	CHECKS																												
22	Pratap QPM Hybrid 1(C)	-		-		-		-		-		-		8.5		-		7.1		-		-		-		-		-	
23	Vivek QPM 9(C)	25.6		-		-		-		-		-		2.6		-		-		-		-		-		-		-	
24	HQPM 1(C)	12.4		-		-		-		0.5		21		27.6		-		-		-		-		0.1		19.2		-	
25	HQPM 4(C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
26	HQPM 5(C)	102.6		-		-		-		-		-		-		-		-		-		-		-		4.6		-	
27	HQPM 7(C)	24.2		-		-		10.9		6.7		16.5		5.2		5.3		-		-		2		8.1		27.1		6.9	

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM 4(C)											
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	CWZ(ZN 5) MEAN	R	OV'L MEAN	R
1	IIMRQPMH 1608	-		37.2		-		-		42.3		-		-	
2	REHQ2014-11	-		28		-		-		9.7		-		-	
3	FQH 106	-		19		-		-		32.9		-		-	
4	IIMRQPMH 1601	4.3		53		-		15.4		54.4		17.9		4.8	
5	IIMRQPMH 1502	-		59.8		7.6		18.5		-		8.9		0.7	
6	IIMRQPMH 1605	-		46.7		1.2		3.8		51.8		10.2		-	
7	IIMRQPMH 1606	-		28.3		-		0.1		-		0.6		-	
8	VEHQ-16-1	26.9		51.3		4.8		-		28.7		18		4.7	
9	IIMRQPMH 1607	23.7		20.2		0.1		-		-		0.4		-	
10	IIMRQPMH 1603	15		20.3		14.8		-		73.5		21		1.6	
11	BQPMH 16	-		44.8		8		25.6		19.9		9.3		1.5	
12	IIMRQPMH 1504*	-		31.8		12		7.4		51		10.4		-	
13	IMHQPM 1530	12.7		24.1		15.5		-		15.2		8.9		1.6	
14	IIMRQPMH 1604	-		36.3		-		-		-		-		-	
15	IIMRQPMH 1610	-		-		-		-		21.8		-		-	
16	IIMRQPMH 1609	-		58.1		9.7		19.4		-		7.1		-	
17	QPM-MH-27	16.2		25.8		14.7		-		26.9		15.1		4.5	
18	IIMRQPMH 1602	-		21.4		2.1		6.6		41.6		10.5		-	
19	KDQH-51	-		14.6		-		-		-		-		-	
20	IIMRQPMH 1508	-		15.2		-		-		51.9		-		-	
21	IIMRQPMH 1501	-		76.5		24		26.5		31.2		22.8		6.3	
	CHECKS														
22	Pratap QPM Hybrid 1(C)	19.4		14.3		5.4		-		52.3		11.4		-	
23	Vivek QPM 9(C)	-		2.6		-		6.3		-		-		-	
24	HQPM 1(C)	20.3		30.9		3.7		1.8		32.8		16.2		0.8	
25	HQPM 4(C)	-		-		-		-		-		-		-	
26	HQPM 5(C)	-		17.6		-		-		14.6		-		-	
27	HQPM 7(C)	-		52.4		9.5		11.8		74		20		9.4	

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM 5(C)												NHZ(ZN 1)										NWPZ ZN 2	
		ALMO	R	BAJA	R	KANG	R	IMPH	R	MEAN	R	LUDH	R	KARN	R	DELH	R	KANP	R	PANT	R	MEAN	R
1	IIMRQPMH 1608	-		-		11		-		-		-		20.9		18.1		15		-		1.9	
2	REHQ2014-11	-		-		16.3		-		-		-		-		-		21.6		-		-	
3	FQH 106	2.9		-		19.3		10.4		-		-		-		5.6		-		-		-	
4	IIMRQPMH 1601	19.8		21.4		33		-		14.5		28.7		0.2		67.3		3.5		9.2		19.1	
5	IIMRQPMH 1502	21.2		3.3		46.5		-		9.6		-		19.6		43.7		1.1		-		7.1	
6	IIMRQPMH 1605	16.3		10.1		32.7		-		9		12.8		10.1		18.5		11		-		9.1	
7	IIMRQPMH 1606	13		0.6		38.5		-		8.7		-		6		12.8		-		-		-	
8	VEHQ-16-1	17.6		10		31.2		12.6		15.8		6.9		15.5		78.5		-		-		14	
9	IIMRQPMH 1607	15.2		-		34.3		35		8.2		11		14.9		-		4.7		-		4.4	
10	IIMRQPMH 1603	25.6		16.1		17.7		9.8		18.2		9.8		11.2		31.7		-		-		6.3	
11	BQPMH 16	19.1		-		53.5		22.5		16.7		8		10.8		30.9		-		-		5.3	
12	IIMRQPMH 1504*	18.1		15.4		18.1		1.1		14.1		14.2		10		7.9		2.2		-		2.8	
13	IMHQPM 1530	34.7		13.2		98.3		17		32.8		9.6		18.4		5.9		4		-		5.6	
14	IIMRQPMH 1604	2.5		-		36.3		-		-		-		15.5		-		-		-		-	
15	IIMRQPMH 1610	8.4		-		47.8		-		-		7.8		18.6		12.7		-		-		2.2	
16	IIMRQPMH 1609	9.3		-		14.9		-		-		20.6		8.4		-		4.4		-		4.2	
17	QPM-MH-27	18.6		5		18.5		-		0.6		3.1		8.6		5.8		-		15.6		6.8	
18	IIMRQPMH 1602	21.7		2.9		30.5		-		6.9		0.2		9.1		12		-		-		0.7	
19	KDQH-51	-		-		19.8		-		-		-		-		-		-		-		-	
20	IIMRQPMH 1508	11.3		-		43.7		16.1		12.5		-		20.1		-		-		-		-	
21	IIMRQPMH 1501	17.7		12.1		14.8		34.1		18		11.2		18.1		46		-		0		10	
	CHECKS																						
22	Pratap QPM Hybrid 1(C)	7.3		-		18.6		10.1		5.8		-		10.4		19.2		-		-		0.4	
23	Vivek QPM 9(C)	-		-		3.8		1.7		-		-		11.3		11.4		-		-		-	
24	HQPM 1(C)	20.8		9.5		7.3		12.7		13.2		-		-		18.4		1.7		6.3		1.7	
25	HQPM 4(C)	20.9		1.1		9		1.5		8.4		2.5		18.8		-		-		-		0.7	
26	HQPM 5(C)	-		-		-		-		-		-		-		-		-		-		-	
27	HQPM 7(C)	4.9		7.1		83.4		8		17.6		9.8		12.6		14.3		-		16.9		9.6	

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM 5(C)																NEPZ ZN 3										PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	KALY	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	COIM	R	MEAN	R
1	IIMRQPMH 1608	-		10.1		-		48.3		11.5		59.1		-		8.7		-		-		-		-		3.3		-	
2	REHQ2014-11	-		-		-		8.1		6.8		-		-		-		-		5.9		-		-		-		-	
3	FQH 106	-		-		-		34.8		-		-		-		-		-		44.9		-		4.2		4.1		-	
4	IIMRQPMH 1601	-		-		-		56.9		36.1		12.5		53.2		-		4		81.8		6.1		1.9		10.7		11.8	
5	IIMRQPMH 1502	-		-		4.9		107.1		69.6		-		13.1		0.7		0.1		98.9		-		-		25.6		10.5	
6	IIMRQPMH 1605	-		-		-		86		23.7		-		14		-		5.7		104.2		-		-		8.7		8.3	
7	IIMRQPMH 1606	-		-		-		64.5		53.5		9.5		-		-		-		39.2		1.1		7.2		8.5		7.3	
8	VEHQ-16-1	-		-		-		145.5		27.5		-		56.8		-		20.4		49.1		-		20.1		17.9		13.8	
9	IIMRQPMH 1607	-		-		-		48		-		6.4		-		-		-		15.2		-		-		9.9		-	
10	IIMRQPMH 1603	-		-		28.4		69.4		-		-		56.6		-		12.6		33.6		-		-		15.8		3.7	
11	BQPMH 16	-		-		-		105.8		-		-		15.8		-		21.8		78.2		-		-		34.5		16.3	
12	IIMRQPMH 1504*	-		-		-		85.7		31.8		-		51.7		-		22.3		113.5		1		6.1		-		12.8	
13	IMHQPM 1530	-		-		5.1		106		-		-		-		-		5		47		-		-		14.4		1.8	
14	IIMRQPMH 1604	-		-		-		2.9		-		-		-		-		-		-		-		-		-		-	
15	IIMRQPMH 1610	-		-		-		58.4		39.3		36.7		-		3.1		-		26.8		-		-		-		-	
16	IIMRQPMH 1609	-		0.4		-		64.1		27.1		-		-		-		1.5		10		-		6.9		5.3		0.4	
17	QPM-MH-27	-		-		28.5		47.4		101.8		-		13.7		11.9		18.9		92.7		-		15.4		23.5		19.6	
18	IIMRQPMH 1602	-		6.5		-		104.5		-		0.6		19.2		-		1.5		41.6		-		8.3		17		6.4	
19	KDQH-51	-		-		-		-		-		6.2		-		-		-		-		-		-		-		-	
20	IIMRQPMH 1508	-		-		-		91.1		11.9		26.3		-		1		-		19.3		-		-		-		-	
21	IIMRQPMH 1501	-		-		18		29.2		-		-		43		-		12.7		74.9		6.3		11.7		35.5		21	
	CHECKS																												
22	Pratap QPM Hybrid 1(C)	-		-		-		62.8		41.5		-		23.6		-		20.8		42.9		-		-		-		0.2	
23	Vivek QPM 9(C)	-		-		-		-		-		9.2		16.8		-		-		-		-		-		-		-	
24	HQPM 1(C)	-		-		-		44.8		42.4		44.4		45.4		4.8		-		27.1		-		0.1		14		4.6	
25	HQPM 4(C)	-		12.7		19.9		98.1		41.7		19.3		13.9		14.9		12.8		89.1		1		0		-		8.6	
26	HQPM 5(C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
27	HQPM 7(C)	-		9.6		5.7		119.8		51.2		39		19.9		21		9.6		83		3		8.2		21.5		16.2	

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM 5(C)												CWZ(ZN 5) MEAN	R	OV'L MEAN	R
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R						
1	IIMRQPMH 1608	-		16.7		-		24.2		24.2				4.7		-	
2	REHQ2014-11	8.1		8.9		-		22.3		-				0.7		-	
3	FQH 106	-		1.2		-		40.7		16				-		-	
4	IIMRQPMH 1601	13.5		30.1		0.1		88.7		34.7				24.5		12.8	
5	IIMRQPMH 1502	3.7		35.9		11.3		93.7		-				15		8.4	
6	IIMRQPMH 1605	-		24.8		4.7		69.7		32.5				16.4		7.1	
7	IIMRQPMH 1606	6.8		9.2		-		63.7		-				6.2		2.3	
8	VEHQ-16-1	38.1		28.7		8.4		42.3		12.3				24.6		12.6	
9	IIMRQPMH 1607	34.5		2.2		3.5		10.8		-				6		-	
10	IIMRQPMH 1603	25.1		2.3		18.8		53.5		51.4				27.7		9.4	
11	BQPMH 16	-		23.2		11.7		105.4		4.7				15.4		9.3	
12	IIMRQPMH 1504*	-		12.1		15.8		75.6		31.8				16.5		7.4	
13	IMHQPM 1530	22.6		5.6		19.5		21		0.6				14.9		9.4	
14	IIMRQPMH 1604	-		15.9		-		48.6		-				-		-	
15	IIMRQPMH 1610	-		-		-		36.8		6.3				-		-	
16	IIMRQPMH 1609	-		34.5		13.5		95.3		-				13.1		1.9	
17	QPM-MH-27	26.4		7		18.7		54.5		10.8				21.5		12.5	
18	IIMRQPMH 1602	8.5		3.3		5.6		74.3		23.5				16.7		4.9	
19	KDQH-51	-		-		-		2.1		-				-		-	
20	IIMRQPMH 1508	-		-		-		62.8		32.6				3.1		0.4	
21	IIMRQPMH 1501	1.2		50.1		28.2		106.8		14.5				29.6		14.4	
	CHECKS																
22	Pratap QPM Hybrid 1(C)	29.9		-		9		8.6		32.9				17.6		3	
23	Vivek QPM 9(C)	-		-		-		73.8		-				-		-	
24	HQPM 1(C)	30.8		11.3		7.3		66.5		15.9				22.7		8.5	
25	HQPM 4(C)	8.8		-		3.4		63.5		-				5.6		7.6	
26	HQPM 5(C)	-		-		-		-		-				-		-	
27	HQPM 7(C)	1.3		29.6		13.2		82.9		51.8				26.7		17.7	

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM 7(C)																		NWPZ ZN 2	
								NHZ(ZN 1)													
		ALMO	R	BAJA	R	KANG	R	IMPH	R	MEAN	R	LUDH	R	KARN	R	DELH	R	KANP	R	PANT	R	MEAN	R
1	IIMRQPMH 1608	-		-		-		-		-		-		7.4		3.3		26.1		-		-	
2	REHQ2014-11	-		-		-		-		-		-		-		-		33.4		-		-	
3	FQH 106	-		-		-		2.2		-		-		-		-		6.8		-		-	
4	IIMRQPMH 1601	14.2		13.4		-		-		-		17.2		-		46.3		13.5		-		8.7	
5	IIMRQPMH 1502	15.6		-		-		-		-		-		6.3		25.7		10.9		-		-	
6	IIMRQPMH 1605	10.9		2.8		-		-		-		2.7		-		3.6		21.7		-		-	
7	IIMRQPMH 1606	7.7		-		-		-		-		-		-		-		-		-		-	
8	VEHQ-16-1	12.1		2.7		-		4.2		-		-		2.6		56.1		-		-		4	
9	IIMRQPMH 1607	9.8		-		-		24.9		-		1		2		-		14.8		-		-	
10	IIMRQPMH 1603	19.8		8.4		-		1.6		0.5		-		-		15.2		5.9		-		-	
11	BQPMH 16	13.5		-		-		13.4		-		-		-		14.5		-		-		-	
12	IIMRQPMH 1504*	12.6		7.7		-		-		-		3.9		-		-		12.1		-		-	
13	IMHQPM 1530	28.4		5.6		8.1		8.3		12.9		-		5.2		-		14		-		-	
14	IIMRQPMH 1604	-		-		-		-		-		-		2.6		-		-		-		-	
15	IIMRQPMH 1610	3.4		-		-		-		-		-		5.4		-		-		-		-	
16	IIMRQPMH 1609	4.2		-		-		-		-		9.8		-		-		14.5		-		-	
17	QPM-MH-27	13		-		-		-		-		-		-		-		6.4		-		-	
18	IIMRQPMH 1602	16		-		-		-		-		-		-		-		1.1		-		-	
19	KDQH-51	-		-		-		-		-		-		-		-		-		-		-	
20	IIMRQPMH 1508	6.1		-		-		7.4		-		-		6.7		-		0.9		-		-	
21	IIMRQPMH 1501	12.2		4.7		-		24.1		0.3		1.2		4.9		27.7		-		-		0.4	
	CHECKS																						
22	Pratap QPM Hybrid 1(C)	2.3		-		-		1.9		-		-		-		4.3		0.7		-		-	
23	Vivek QPM 9(C)	-		-		-		-		-		-		-		-		5.1		-		-	
24	HQPM 1(C)	15.2		2.2		-		4.3		-		-		-		3.5		11.5		-		-	
25	HQPM 4(C)	15.2		-		-		-		-		-		5.6		-		4.3		-		-	
26	HQPM 5(C)	-		-		-		-		-		-		-		-		9.6		-		-	
27	HQPM 7(C)	-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM 7(C)												NEPZ ZN 3										PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	KALY	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	COIM	R	MEAN	R
1	IIMRQPMH 1608	-		0.4		-		-		-		14.4		-		-		-		-		-		-		-		-	
2	REHQ2014-11	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
3	FQH 106	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
4	IIMRQPMH 1601	3.2		-		-		-		-		-		27.8		-		-		-		3		-		-		-	
5	IIMRQPMH 1502	-		-		-		-		12.2		-		-		-		-		8.7		-		-		3.4		-	
6	IIMRQPMH 1605	-		-		-		-		-		-		-		-		-		11.6		-		-		-		-	
7	IIMRQPMH 1606	1.3		-		-		-		1.5		-		-		-		-		-		-		-		-		-	
8	VEHQ-16-1	-		-		-		11.7		-		-		30.8		-		9.9		-		-		11		-		-	
9	IIMRQPMH 1607	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
10	IIMRQPMH 1603	1.3		-		21.5		-		-		-		30.6		-		2.7		-		-		-		-		-	
11	BQPMH 16	1		-		-		-		-		-		-		-		11.1		-		-		-		10.7		0.2	
12	IIMRQPMH 1504*	-		-		-		-		-		-		26.5		-		11.6		16.7		-		-		-		-	
13	IMHQPM 1530	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
14	IIMRQPMH 1604	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
15	IIMRQPMH 1610	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
16	IIMRQPMH 1609	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
17	QPM-MH-27	-		-		21.6		-		33.5		-		-		-		8.5		5.3		-		6.6		1.7		3	
18	IIMRQPMH 1602	-		-		-		-		-		-		-		-		-		-		-		0.1		-		-	
19	KDQH-51	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
20	IIMRQPMH 1508	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
21	IIMRQPMH 1501	11		-		11.7		-		-		-		19.2		-		2.9		-		3.2		3.2		11.6		4.2	
	CHECKS																												
22	Pratap QPM Hybrid 1(C)	-		-		-		-		-		-		3.1		-		10.2		-		-		-		-		-	
23	Vivek QPM 9(C)	1.1		-		-		-		-		-		-		-		-		-		-		-		-		-	
24	HQPM 1(C)	-		-		-		-		-		3.8		21.3		-		-		-		-		-		-		-	
25	HQPM 4(C)	-		2.9		13.4		-		-		-		-		-		3		3.4		-		-		-		-	
26	HQPM 5(C)	63.1		-		-		-		-		-		-		-		-		-		-		-		-		-	
27	HQPM 7(C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 18 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM 7(C)													
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	CWZ(ZN 5) MEAN	R	OV'L MEAN	R
1	IIMRQPMH 1608	-		-		-		-		-		-		-	
2	REHQ2014-11	6.8		-		-		-		-		-		-	
3	FQH 106	-		-		-		-		-		-		-	
4	IIMRQPMH 1601	12.1		0.4		-		3.2		-		-		-	
5	IIMRQPMH 1502	2.4		4.9		-		5.9		-		-		-	
6	IIMRQPMH 1605	-		-		-		-		-		-		-	
7	IIMRQPMH 1606	5.5		-		-		-		-		-		-	
8	VEHQ-16-1	36.4		-		-		-		-		-		-	
9	IIMRQPMH 1607	32.9		-		-		-		-		-		-	
10	IIMRQPMH 1603	23.5		-		4.9		-		-		0.8		-	
11	BQPMH 16	-		-		-		12.3		-		-		-	
12	IIMRQPMH 1504*	-		-		2.3		-		-		-		-	
13	IMHQPM 1530	21.1		-		5.5		-		-		-		-	
14	IIMRQPMH 1604	-		-		-		-		-		-		-	
15	IIMRQPMH 1610	-		-		-		-		-		-		-	
16	IIMRQPMH 1609	-		3.7		0.2		6.8		-		-		-	
17	QPM-MH-27	24.8		-		4.8		-		-		-		-	
18	IIMRQPMH 1602	7.2		-		-		-		-		-		-	
19	KDQH-51	-		-		-		-		-		-		-	
20	IIMRQPMH 1508	-		-		-		-		-		-		-	
21	IIMRQPMH 1501	-		15.8		13.2		13.1		-		2.3		-	
	CHECKS														
22	Pratap QPM Hybrid 1(C)	28.3		-		-		-		-		-		-	
23	Vivek QPM 9(C)	-		-		-		-		-		-		-	
24	HQPM 1(C)	29.2		-		-		-		-		-		-	
25	HQPM 4(C)	7.4		-		-		-		-		-		-	
26	HQPM 5(C)	-		-		-		-		-		-		-	
27	HQPM 7(C)	-		-		-		-		-		-		-	

TABLE No. 18 (Contd.)

S.No.	PEDIGREE	MOISTURE % AT HARVEST				NHZ ZN 1 Mean						NWPZ ZN 2 Mean						NEPZ ZN 3 Mean
		ALMO	BAJA	KANG	IMPH		LUDH	KARN	DELH	KANP	PANT		DHOL	BHUB	RANC	VARA	BAHR	SABO	
1	IIMRQPMH 1608	25.8	20.3	37.1	25.5	27.1	14.0	23.2	20.9	17.3	28.0	20.7	22.0	18.0	25.4	29.3	22.9	25.5	23.8
2	REHQ2014-11	25.1	21.0	36.1	22.9	26.3	13.4	25.6	22.3	16.7	28.2	21.2	22.0	18.1	25.2	24.4	25.2	29.4	24.0
3	FQH 106	19.8	16.8	37.7	15.3	22.4	10.7	23.2	15.2	16.0	25.1	18.0	19.0	17.8	25.4	23.0	23.1	25.5	22.3
4	IIMRQPMH 1601	23.7	20.7	36.7	24.3	26.3	18.2	24.3	23.8	17.3	28.3	22.4	21.5	17.6	25.8	27.5	25.0	26.8	24.0
5	IIMRQPMH 1502	21.0	18.9	36.8	21.5	24.5	13.3	23.0	17.0	14.3	24.6	18.4	19.0	17.3	24.7	24.4	25.5	25.4	22.7
6	IIMRQPMH 1605	22.6	19.4	36.3	29.5	26.9	14.7	23.9	19.3	16.0	24.7	19.7	20.0	17.9	25.5	25.6	25.7	27.0	23.6
7	IIMRQPMH 1606	27.2	19.6	37.3	24.2	27.1	14.9	25.0	23.8	15.7	30.3	21.9	19.0	18.7	25.8	28.1	25.8	25.7	23.8
8	VEHQ-16-1	24.3	19.8	36.9	20.4	25.3	13.7	23.6	18.1	15.7	22.7	18.7	20.4	17.8	26.2	27.0	23.8	27.2	23.7
9	IIMRQPMH 1607	23.3	20.1	33.9	19.9	24.3	13.9	25.0	17.1	16.7	25.6	19.6	22.1	17.8	26.5	25.3	23.2	24.3	23.2
10	IIMRQPMH 1603	27.0	20.1	35.1	25.9	27.0	13.4	24.1	22.5	14.7	29.6	20.9	19.0	18.0	25.8	27.1	25.8	26.0	23.6
11	BQPMH 16	25.6	18.2	36.9	19.2	25.0	15.1	23.3	20.7	13.3	27.6	20.0	21.5	17.1	25.3	26.9	23.0	24.1	23.0
12	IIMRQPMH 1504*	25.8	19.4	36.4	23.9	26.4	12.5	23.9	21.6	15.0	26.0	19.8	22.5	18.1	23.7	27.5	26.8	24.4	23.8
13	IMHQPM 1530	24.3	17.1	37.2	22.1	25.2	12.0	22.5	17.4	12.7	24.1	17.7	20.5	18.0	26.3	26.5	23.9	23.5	23.1
14	IIMRQPMH 1604	23.4	18.2	36.4	22.9	25.2	13.1	25.5	15.1	15.0	21.8	18.1	20.0	17.6	24.8	23.9	23.3	27.3	22.8
15	IIMRQPMH 1610	25.1	18.8	35.7	26.8	26.6	13.0	25.3	19.3	16.7	27.9	20.4	20.0	17.2	24.9	27.0	23.8	25.5	23.1
16	IIMRQPMH 1609	22.8	19.4	36.8	20.3	24.8	13.7	24.9	17.4	13.7	27.2	19.4	19.5	18.1	24.6	27.0	24.0	24.6	23.0
17	QPM-MH-27	24.6	20.8	36.3	21.8	25.9	14.1	24.5	19.6	15.7	28.5	20.5	21.3	17.1	26.3	26.0	25.9	28.2	24.1
18	IIMRQPMH 1602	23.5	20.0	37.6	20.0	25.3	14.6	25.5	19.1	14.7	28.6	20.5	21.0	17.5	26.0	25.8	24.9	26.8	23.7
19	KDQH-51	22.3	18.1	27.6	22.7	22.7	13.0	24.7	15.6	15.7	24.1	18.6	19.4	18.6	25.6	23.6	23.1	29.1	23.2
20	IIMRQPMH 1508	23.7	17.9	30.0	15.3	21.7	13.3	23.3	16.8	17.0	24.9	19.0	21.5	18.7	25.2	23.4	25.7	26.6	23.5
21	IIMRQPMH 1501	25.5	18.7	36.7	20.0	25.2	14.5	23.2	16.8	17.0	25.0	19.3	21.0	18.2	24.9	25.8	24.4	27.0	23.5
	CHECKS																		
22	Pratap QPM Hybrid 1(C)	26.2	17.8	37.6	18.1	24.9	14.1	25.9	17.1	15.7	25.9	19.7	22.0	17.5	24.6	25.6	26.1	26.7	23.7
23	Vivek QPM 9(C)	19.2	14.4	32.7	15.0	20.3	10.2	25.4	15.7	14.3	27.3	18.6	20.0	16.8	25.5	25.1	21.3	27.1	22.6
24	HQPM 1(C)	25.6	21.8	35.9	22.0	26.3	14.5	22.9	20.3	13.7	26.3	19.5	22.4	18.2	25.4	29.8	24.9	26.9	24.6
25	HQPM 4(C)	24.6	18.2	36.8	26.0	26.4	14.5	23.1	19.1	14.7	28.8	20.0	21.4	18.1	24.5	29.8	25.9	24.3	24.0
26	HQPM 5(C)	22.0	20.4	37.8	24.0	26.0	16.0	23.1	22.8	15.7	28.3	21.2	21.0	18.4	25.5	30.4	22.2	25.7	23.8
27	HQPM 7(C)	22.1	20.3	36.8	25.3	26.1	13.8	22.2	21.5	16.0	28.3	20.3	22.0	18.1	24.5	26.9	24.6	26.3	23.7
	Loc. Mean	**23.9**	**19.1**	**35.9**	**22.0**	**25.2**	**13.8**	**24.1**	**19.1**	**15.4**	**26.6**	**19.8**	**20.8**	**17.9**	**25.3**	**26.4**	**24.4**	**26.2**	**23.5**
	C.D. (5%)	1.97	0.57	1.72	2.24	2.95	0.92	0.30	1.59	1.46	3.45	1.97	1.76	-	1.44	1.52	0.83	2.77	1.46
	C.V. (%)	5.02	1.82	2.33	6.22	8.31	4.07	0.77	5.07	5.79	7.93	7.92	5.16	-	3.47	3.51	2.07	6.46	5.46
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.01	0.42

TABLE No. 18 (Contd.)

S.No.	PEDIGREE	MOISTURE % AT HARVEST					PZ ZN 4 Mean						CWZ ZN 5 Mean	OV'L Mean
		HYDE	KARI	DHAR	MAND	COIM		UDAI	BANS	CHHI	AMBI	GODH		
1	IIMRQPMH 1608	24.9	21.3	15.7	16.2	21.4	19.9	15.9	17.2	13.5	16.0	18.0	16.1	21.4
2	REHQ2014-11	26.4	28.8	16.0	17.4	22.7	22.2	18.1	17.0	12.6	15.1	16.7	15.9	21.8
3	FQH 106	20.5	17.5	11.6	15.5	18.9	16.8	17.9	16.6	10.2	15.4	16.5	15.3	19.0
4	IIMRQPMH 1601	28.2	23.4	14.4	16.4	26.5	21.8	16.5	17.1	14.4	14.8	17.8	16.1	22.0
5	IIMRQPMH 1502	26.1	23.6	13.8	15.8	21.2	20.1	16.7	17.3	12.6	15.4	14.4	15.3	20.1
6	IIMRQPMH 1605	23.5	22.8	14.0	15.4	19.7	19.1	17.2	17.1	13.2	15.8	15.3	15.7	20.9
7	IIMRQPMH 1606	26.9	27.9	15.7	15.7	21.5	21.5	16.9	16.1	15.0	14.3	14.3	15.3	21.8
8	VEHQ-16-1	23.3	20.3	13.4	15.6	19.9	18.5	17.2	16.8	11.9	14.4	14.8	15.0	20.2
9	IIMRQPMH 1607	23.5	21.3	12.6	18.5	17.5	18.7	15.9	16.8	13.5	15.2	15.4	15.3	20.2
10	IIMRQPMH 1603	25.4	23.6	14.2	16.7	20.1	20.0	18.2	16.8	13.5	15.9	15.6	16.0	21.3
11	BQPMH 16	25.1	24.1	16.1	16.4	21.6	20.6	15.7	16.6	13.0	15.2	13.2	14.7	20.6
12	IIMRQPMH 1504*	27.0	23.9	15.5	15.6	21.0	20.6	16.9	16.6	13.2	15.7	16.8	15.8	21.2
13	IMHQPM 1530	24.8	22.0	11.6	16.8	21.7	19.4	17.9	16.9	11.5	15.1	13.3	14.9	20.0
14	IIMRQPMH 1604	19.8	23.6	12.4	15.4	15.9	17.4	15.2	17.2	12.2	15.3	16.1	15.2	19.6
15	IIMRQPMH 1610	26.9	18.2	13.2	13.6	22.6	18.9	16.2	16.8	12.2	15.1	16.0	15.2	20.7
16	IIMRQPMH 1609	23.7	23.5	15.8	16.5	21.8	20.2	17.4	17.3	14.1	15.3	15.2	15.8	20.6
17	QPM-MH-27	24.5	19.9	12.9	17.6	21.5	19.3	17.7	16.9	12.3	15.1	15.3	15.4	21.0
18	IIMRQPMH 1602	26.1	24.2	14.1	16.3	22.0	20.5	17.8	16.8	15.9	14.7	15.1	16.1	21.1
19	KDQH-51	20.9	20.5	12.7	15.4	19.5	17.8	15.9	16.8	12.5	16.1	17.2	15.7	19.6
20	IIMRQPMH 1508	22.9	22.5	13.1	15.9	20.5	18.9	16.3	16.9	12.5	16.0	13.6	15.0	19.7
21	IIMRQPMH 1501	24.8	23.2	13.6	16.8	18.9	19.4	16.9	17.7	13.3	15.9	16.2	16.0	20.6
	CHECKS													
22	Pratap QPM Hybrid 1(C)	24.8	21.1	12.7	16.2	21.3	19.2	17.4	17.0	13.0	16.1	16.8	16.1	20.7
23	Vivek QPM 9(C)	20.3	20.4	17.4	15.7	18.3	18.4	15.8	16.9	10.8	15.5	14.5	14.7	19.0
24	HQPM 1(C)	27.2	22.8	12.9	17.1	22.8	20.5	16.8	17.1	13.1	15.3	18.1	16.0	21.3
25	HQPM 4(C)	27.2	22.9	12.8	18.4	22.2	20.7	16.0	17.3	16.2	14.4	15.0	15.8	21.3
26	HQPM 5(C)	24.8	26.3	13.6	17.7	24.9	21.4	16.4	17.2	15.6	14.2	16.4	15.9	21.6
27	HQPM 7(C)	26.1	24.9	15.0	17.0	22.3	21.0	16.9	17.2	14.4	15.8	15.9	16.0	21.4
	Loc. Mean	**24.6**	**22.7**	**13.9**	**16.3**	**21.0**	**19.7**	**16.8**	**16.9**	**13.2**	**15.3**	**15.7**	**15.6**	**20.7**
	C.D. (5%)	2.08	1.74	2.53	0.87	0.82	2.03	0.57	0.63	1.18	1.75	0.45	1.24	0.87
	C.V. (%)	5.16	4.68	11.08	3.24	2.38	8.22	2.08	2.26	5.46	6.98	1.77	6.36	7.55
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.66	0.00	0.41	0.00

TABLE No. 18 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING %				NHZ ZN 1						NWPZ ZN 2								NEPZ ZN 3
		ALMO	BAJA	KANG	IMPH	Mean	LUDH	KARN	DELH	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	KALY	SABO	Mean
1	IIMRQPMH 1608	83.7	82.4	84.9	81.3	83.0	82.0	81.1	79.3	75.7	80.7	79.8	79.5	77.5	86.0	77.5	71.6	90.7	77.4	80.0
2	REHQ2014-11	82.4	80.4	78.3	85.0	81.5	82.5	78.9	76.7	75.3	85.0	79.7	78.0	79.4	86.5	75.5	70.7	85.3	77.1	78.9
3	FQH 106	84.5	83.1	80.8	83.1	82.9	82.2	78.5	81.0	71.3	89.9	80.6	81.0	80.0	82.2	79.5	75.5	81.4	79.7	79.9
4	IIMRQPMH 1601	85.5	85.5	79.6	81.8	83.1	84.9	78.2	74.0	71.7	86.4	79.0	78.5	80.0	84.0	79.0	77.0	88.8	78.9	80.9
5	IIMRQPMH 1502	83.6	83.5	81.6	81.5	82.5	83.4	80.7	78.7	73.7	86.1	80.5	75.0	81.2	82.0	78.0	81.4	83.3	75.7	79.5
6	IIMRQPMH 1605	83.3	84.4	79.8	86.1	83.4	81.8	81.5	77.0	77.0	84.5	80.4	80.0	79.0	81.7	79.5	75.5	86.0	75.5	79.6
7	IIMRQPMH 1606	84.5	83.6	82.0	85.1	83.8	84.2	82.1	78.7	74.0	83.0	80.4	79.0	78.2	86.9	80.0	74.8	86.9	75.6	80.2
8	VEHQ-16-1	86.1	83.2	82.7	83.5	83.9	85.0	80.1	78.7	75.3	83.6	80.6	76.0	81.8	87.1	80.0	73.1	82.3	78.5	79.8
9	IIMRQPMH 1607	84.3	86.1	80.4	82.4	83.3	84.9	80.5	75.0	77.0	84.5	80.4	79.0	79.2	83.2	75.5	74.7	96.2	75.4	80.5
10	IIMRQPMH 1603	82.3	84.4	80.5	84.1	82.8	82.2	80.3	76.0	77.7	83.8	80.0	79.0	77.9	84.2	75.5	69.9	87.2	77.1	78.7
11	BQPMH 16	85.1	84.4	79.0	86.6	83.8	86.3	80.2	78.7	73.3	86.6	81.0	75.0	81.3	86.1	80.5	73.7	85.9	77.4	80.0
12	IIMRQPMH 1504*	81.2	81.1	78.6	80.0	80.2	82.3	79.5	73.7	74.3	83.8	78.7	81.0	77.3	85.4	79.5	75.8	87.4	80.6	81.0
13	IMHQPM 1530	86.1	86.1	83.0	85.2	85.1	86.8	80.6	79.3	75.0	85.7	81.5	77.5	81.4	86.6	80.5	74.4	83.0	80.2	80.5
14	IIMRQPMH 1604	85.5	86.5	82.4	84.5	84.7	83.5	82.2	79.3	72.0	86.6	80.7	80.0	81.6	83.3	76.5	69.7	89.1	74.9	79.3
15	IIMRQPMH 1610	81.6	83.2	80.1	96.4	85.3	85.1	82.3	78.7	74.0	85.5	81.1	79.5	80.1	85.7	75.5	76.6	87.0	73.0	79.6
16	IIMRQPMH 1609	84.2	83.7	82.0	83.1	83.2	85.3	79.5	78.0	77.3	86.9	81.4	77.0	78.5	81.6	80.0	79.0	88.7	77.6	80.3
17	QPM-MH-27	80.9	82.3	81.5	78.6	80.8	81.4	79.5	76.3	77.3	86.0	80.1	80.0	78.7	85.3	75.5	80.5	89.2	75.4	80.7
18	IIMRQPMH 1602	80.9	81.8	77.6	77.6	79.5	83.0	81.1	77.0	75.0	88.2	80.8	79.5	80.9	83.1	73.0	69.6	87.6	73.7	78.2
19	KDQH-51	82.8	80.3	77.4	80.1	80.2	77.7	82.8	77.7	76.0	91.9	81.2	77.5	77.7	81.5	77.5	69.8	68.4	74.1	75.2
20	IIMRQPMH 1508	81.1	82.9	78.2	82.6	81.2	78.8	80.4	80.3	75.7	83.1	79.7	78.5	81.8	81.5	74.0	71.5	86.2	81.4	79.3
21	IIMRQPMH 1501	82.6	84.2	79.9	84.6	82.8	84.2	81.0	79.7	72.7	83.3	80.2	74.0	79.0	83.7	79.0	71.6	87.3	78.5	79.0
	CHECKS																			
22	Pratap QPM Hybrid 1(C)	81.0	83.8	79.8	79.8	81.1	81.5	82.3	74.7	74.7	84.9	79.6	76.5	77.0	85.2	77.5	78.1	90.9	74.8	80.0
23	Vivek QPM 9(C)	85.0	85.3	84.5	86.9	85.4	79.2	80.8	78.0	73.3	83.1	78.9	81.5	78.2	80.2	76.5	71.5	89.1	78.8	79.4
24	HQPM 1(C)	82.6	82.7	79.1	81.2	81.4	84.2	81.5	77.0	75.7	89.2	81.5	81.5	78.0	85.1	74.0	77.0	90.1	80.1	80.8
25	HQPM 4(C)	79.8	80.7	75.4	78.3	78.5	76.5	80.3	74.7	72.3	82.8	77.3	81.0	80.1	80.8	72.5	74.0	88.4	69.0	78.0
26	HQPM 5(C)	80.4	80.9	77.0	77.4	78.9	81.6	81.2	77.0	73.7	86.0	79.9	83.0	76.8	83.3	73.5	73.9	83.1	74.8	78.3
27	HQPM 7(C)	81.1	81.3	76.4	82.8	80.4	80.0	79.5	76.7	73.0	86.3	79.1	81.5	78.8	80.5	76.5	77.6	90.5	71.2	79.5
	Loc. Mean	**83.0**	**83.2**	**80.1**	**82.9**	**82.3**	**82.6**	**80.6**	**77.5**	**74.6**	**85.4**	**80.1**	**78.9**	**79.3**	**83.8**	**77.1**	**74.4**	**86.7**	**76.5**	**79.5**
	C.D. (5%)	1.49	0.00	2.41	3.46	2.80	2.86	0.32	2.80	1.80	3.82	2.52	3.43	0.00	1.10	1.71	1.27	3.65	5.56	3.09
	C.V. (%)	1.09	0.00	1.47	2.55	2.42	2.11	0.24	2.21	1.48	2.73	2.51	2.65	0.00	0.80	1.35	1.04	2.57	4.43	3.68
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.30

TABLE No. 18 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING %					PZ ZN 4 Mean						CWZ ZN 5 Mean	OV'L Mean
		HYDE	KARI	DHAR	MAND	COIM		UDAI	BANS	CHHI	AMBI	GODH		
1	IIMRQPMH 1608	78.3	72.9	87.6	81.0	82.7	80.5	78.9	78.1	87.4	80.7	88.1	82.6	81.0
2	REHQ2014-11	76.3	76.0	86.0	78.5	80.0	79.3	82.1	76.9	85.3	78.6	86.0	81.8	80.1
3	FQH 106	83.2	80.6	85.9	82.0	85.2	83.4	81.6	76.7	83.1	78.9	84.6	81.0	81.4
4	IIMRQPMH 1601	74.6	81.2	87.3	80.3	81.2	80.9	81.9	78.0	87.5	77.9	86.6	82.4	81.2
5	IIMRQPMH 1502	72.8	79.1	84.3	79.5	80.5	79.2	80.4	77.3	87.8	79.1	74.7	79.8	80.2
6	IIMRQPMH 1605	68.8	74.1	84.9	79.3	78.6	77.1	79.9	76.8	83.4	79.8	87.2	81.4	80.2
7	IIMRQPMH 1606	80.2	79.8	87.2	80.5	81.4	81.8	82.1	78.3	86.4	78.1	84.6	81.9	81.4
8	VEHQ-16-1	80.5	79.5	86.5	82.0	83.5	82.4	81.9	77.9	85.6	77.5	82.2	81.0	81.3
9	IIMRQPMH 1607	77.5	79.0	84.2	81.0	82.3	80.8	82.4	76.5	87.1	79.2	86.1	82.2	81.3
10	IIMRQPMH 1603	78.0	79.5	85.0	79.0	82.2	80.7	82.3	77.1	86.0	80.8	82.4	81.7	80.5
11	BQPMH 16	80.2	81.3	85.7	82.0	82.3	82.3	81.2	77.5	87.1	79.8	84.1	81.9	81.6
12	IIMRQPMH 1504*	78.1	77.7	86.7	78.8	80.0	80.3	80.8	77.7	86.2	79.3	85.6	81.9	80.5
13	IMHQPM 1530	80.9	80.9	86.4	82.0	85.0	83.0	80.5	77.2	89.2	79.7	78.8	81.1	82.0
14	IIMRQPMH 1604	76.1	74.3	86.8	82.0	81.3	80.1	81.6	77.8	75.4	79.3	82.6	79.3	80.6
15	IIMRQPMH 1610	78.8	80.0	83.9	79.5	80.3	80.5	82.3	73.7	84.6	79.3	83.9	80.8	81.2
16	IIMRQPMH 1609	80.5	80.4	85.8	80.5	82.6	82.0	82.3	76.8	89.0	80.0	86.1	82.8	81.8
17	QPM-MH-27	75.7	74.2	85.8	77.8	77.7	78.2	82.1	77.0	86.3	78.1	87.8	82.3	80.4
18	IIMRQPMH 1602	74.6	77.9	85.1	78.3	77.3	78.6	80.6	77.4	81.6	78.4	87.6	81.1	79.6
19	KDQH-51	76.8	77.5	82.9	79.1	81.4	79.5	79.7	73.7	86.9	78.8	88.6	81.5	79.2
20	IIMRQPMH 1508	75.8	73.9	83.1	77.5	80.0	78.0	79.1	75.0	82.4	79.1	86.5	80.4	79.6
21	IIMRQPMH 1501	73.0	77.5	86.7	80.0	81.9	79.8	82.3	79.3	88.2	80.0	85.1	83.0	80.7
	CHECKS													
22	Pratap QPM Hybrid 1(C)	77.2	74.4	83.3	78.5	80.6	78.8	81.9	76.2	85.0	79.8	77.2	80.0	79.9
23	Vivek QPM 9(C)	77.7	77.7	85.1	81.8	85.2	81.5	78.8	74.6	87.3	79.8	84.0	80.9	80.9
24	HQPM 1(C)	76.6	76.5	86.3	79.0	78.5	79.4	81.5	77.3	84.4	79.4	85.2	81.6	80.9
25	HQPM 4(C)	70.7	78.0	85.1	78.8	78.4	78.2	78.4	78.4	85.7	78.0	85.4	81.2	78.6
26	HQPM 5(C)	73.8	75.8	84.6	79.9	76.5	78.1	81.0	76.9	84.3	76.7	85.9	80.9	79.2
27	HQPM 7(C)	67.3	77.2	85.9	79.0	82.0	78.3	82.3	78.9	86.0	79.4	85.2	82.3	79.9
	Loc. Mean	**76.4**	**77.6**	**85.5**	**79.9**	**81.0**	**80.1**	**81.1**	**77.0**	**85.5**	**79.1**	**84.5**	**81.4**	**80.6**
	C.D. (5%)	7.62	2.12	1.35	1.03	0.74	2.43	0.46	2.30	5.72	2.13	5.34	2.70	1.29
	C.V. (%)	6.09	1.67	0.97	0.78	0.56	2.42	0.35	1.82	4.08	1.64	3.86	2.64	2.95
	F (Prob)	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.07	0.00	0.62	0.00

TABLE No. 18 (Contd.)

		STAND AT HARVEST ('000/ha)				NHZ						NWPZ							NEPZ
						ZN 1						ZN 2							ZN 3
S.No.	PEDIGREE	ALMO	BAJA	KANG	IMPH	Mean	LUDH	KARN	DELH	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	KALY	SABO	Mean
1	IIMRQPMH 1608	55.1	50.0	78.5	49.7	58.3	58.7	62.5	56.1	76.0	57.4	62.1	55.0	63.2	50.0	60.8	65.6	82.3	42.7	59.9
2	REHQ2014-11	61.1	64.8	78.5	49.4	63.5	71.2	61.4	60.0	79.2	63.7	67.1	51.1	62.5	61.3	57.3	62.2	84.0	48.6	61.0
3	FQH 106	61.6	67.1	72.2	50.0	62.7	76.0	62.5	58.9	77.1	62.6	67.4	55.3	59.4	71.7	59.7	63.9	85.1	55.2	64.3
4	IIMRQPMH 1601	64.8	69.4	70.8	49.7	63.7	78.5	62.5	61.7	77.8	64.4	69.0	56.7	62.5	72.0	61.8	61.8	86.5	71.5	67.5
5	IIMRQPMH 1502	63.4	66.2	72.9	49.4	63.0	74.3	61.9	62.8	77.4	63.3	68.0	52.5	64.2	65.8	60.4	67.4	84.7	54.9	64.3
6	IIMRQPMH 1605	58.8	65.7	77.8	49.7	63.0	76.7	62.8	62.8	76.0	64.4	68.6	56.1	62.8	67.9	58.7	64.2	85.8	56.3	64.5
7	IIMRQPMH 1606	65.3	65.7	70.8	49.4	62.8	74.7	61.9	63.9	76.4	63.0	68.0	52.5	63.5	64.6	66.3	62.5	84.7	54.2	64.0
8	VEHQ-16-1	64.8	68.1	74.3	48.6	63.9	78.5	62.5	60.0	78.1	65.2	68.9	58.9	63.5	63.7	64.9	64.9	84.4	60.4	65.8
9	IIMRQPMH 1607	58.3	47.2	72.9	49.4	57.0	70.5	61.9	60.6	76.0	59.3	65.7	53.3	64.2	52.1	59.0	60.1	85.4	39.9	59.2
10	IIMRQPMH 1603	61.6	66.7	70.8	50.0	62.3	83.3	63.1	58.1	79.2	58.5	68.4	56.4	60.4	67.9	61.1	63.2	84.7	65.3	65.6
11	BQPMH 16	64.8	68.1	73.6	48.9	63.8	73.3	62.2	62.2	77.1	61.9	67.3	55.0	64.2	68.5	62.2	57.6	82.6	54.2	63.5
12	IIMRQPMH 1504*	64.8	69.0	70.8	49.4	63.5	75.0	62.5	63.9	77.8	60.7	68.0	54.2	62.5	69.9	61.8	59.4	85.1	63.9	65.2
13	IMHQPM 1530	60.2	56.9	73.6	50.0	60.2	72.9	62.5	56.1	77.4	61.5	66.1	53.6	64.6	62.5	62.5	68.4	85.4	46.2	63.3
14	IIMRQPMH 1604	63.4	64.4	79.2	49.7	64.2	76.7	63.1	56.7	76.0	64.1	67.3	58.3	63.2	67.3	57.3	59.4	85.4	41.3	61.7
15	IIMRQPMH 1610	55.1	45.8	80.6	50.0	57.9	61.1	61.9	60.0	79.2	60.0	64.4	54.7	61.5	53.6	58.3	56.9	86.5	42.0	59.1
16	IIMRQPMH 1609	58.8	53.7	75.7	49.4	59.4	74.3	61.4	55.6	77.1	60.7	65.8	51.9	62.8	54.8	57.6	61.1	85.4	45.1	59.8
17	QPM-MH-27	60.2	63.0	70.8	50.0	61.0	77.1	63.1	55.6	77.8	63.3	67.4	53.6	61.8	65.8	59.7	64.2	85.1	51.0	63.0
18	IIMRQPMH 1602	65.3	65.7	71.5	50.0	63.1	82.3	62.2	58.9	77.4	64.1	69.0	55.8	63.2	67.3	65.6	60.8	83.7	60.4	65.3
19	KDQH-51	60.2	50.5	70.8	49.7	57.8	62.5	61.7	57.2	76.0	60.7	63.6	55.3	63.9	65.8	57.3	62.5	84.7	45.8	62.2
20	IIMRQPMH 1508	59.7	57.4	75.7	49.7	60.6	70.8	63.3	57.8	76.4	65.6	66.8	54.4	64.6	63.1	61.8	67.7	85.8	41.0	62.6
21	IIMRQPMH 1501	66.2	67.1	78.5	50.0	65.5	78.5	61.9	61.1	78.1	63.3	68.6	57.8	64.6	71.4	59.4	64.6	86.1	62.5	66.6
	CHECKS																			
22	Pratap QPM Hybrid 1(C)	62.5	65.7	75.0	50.0	63.3	74.0	62.8	63.9	77.1	63.7	68.3	57.2	62.8	64.9	56.6	68.8	85.1	51.0	63.8
23	Vivek QPM 9(C)	63.0	66.7	78.5	49.7	64.5	81.9	61.9	58.1	78.8	64.8	69.1	55.0	63.9	68.2	58.7	67.4	83.3	66.7	66.2
24	HQPM 1(C)	64.8	60.6	72.2	50.0	61.9	71.2	60.8	61.7	79.2	63.0	67.2	53.9	62.8	67.6	58.7	65.6	86.1	61.1	65.1
25	HQPM 4(C)	63.4	52.8	78.5	50.0	61.2	68.8	61.7	56.9	80.2	64.4	66.4	55.6	64.6	60.7	63.9	64.9	86.8	51.0	63.9
26	HQPM 5(C)	56.0	57.9	75.7	50.0	59.9	66.0	61.9	56.1	79.5	63.0	65.3	59.2	61.5	63.7	60.8	61.1	83.7	38.2	61.2
27	HQPM 7(C)	63.0	58.3	72.9	50.0	61.1	74.7	63.3	61.1	79.2	63.0	68.2	55.8	64.6	64.6	55.9	62.8	84.7	47.6	62.3
	Loc. Mean	**61.7**	**61.3**	**74.6**	**49.7**	**61.8**	**73.5**	**62.3**	**59.5**	**77.7**	**62.6**	**67.1**	**55.2**	**63.1**	**64.3**	**60.3**	**63.3**	**84.9**	**52.5**	**63.4**
	C.D. (5%)	5.19	5.63	6.74	0.70	5.81	8.22	1.47	5.46	2.89	3.15	3.77	5.10	3.54	7.36	2.69	4.09	5.34	13.91	4.44
	C.V. (%)	5.14	5.60	4.40	0.86	6.68	6.83	1.44	5.59	2.27	3.07	4.48	5.64	3.42	6.98	2.72	3.94	3.84	16.17	6.64
	F (Prob)	0.00	0.00	0.06	0.01	0.25	0.00	0.13	0.01	0.10	0.00	0.04	0.20	0.34	0.00	0.00	0.00	1.00	0.00	0.00

TABLE No. 18 (Contd.)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) HYDE	KARI	DHAR	MAND	COIM	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ ZN 5 Mean	OV'L Mean
1	IIMRQPMH 1608	34.4	29.4	47.9	67.4	66.3	49.1	58.3	62.8	37.8	36.4	60.4	51.2	56.3
2	REHQ2014-11	55.3	49.4	72.6	65.6	66.7	61.9	59.0	62.8	54.2	37.2	50.7	52.8	61.1
3	FQH 106	53.3	55.8	81.6	69.1	66.0	65.2	57.3	63.2	61.9	43.3	77.8	60.7	64.1
4	IIMRQPMH 1601	59.2	58.3	76.0	66.3	66.3	65.2	55.6	64.2	65.6	57.2	61.1	60.7	65.5
5	IIMRQPMH 1502	60.3	57.5	69.4	68.4	66.7	64.5	49.7	67.4	60.8	59.4	72.2	61.9	64.4
6	IIMRQPMH 1605	57.8	60.3	75.0	76.7	66.3	67.2	56.9	63.2	64.7	51.4	54.9	58.2	64.4
7	IIMRQPMH 1606	54.4	51.4	86.1	68.8	66.3	65.4	58.7	57.6	61.1	50.0	54.2	56.3	63.4
8	VEHQ-16-1	56.9	51.7	80.6	71.2	66.0	65.3	60.8	67.7	62.5	42.8	63.9	59.5	64.8
9	IIMRQPMH 1607	32.8	48.1	49.3	63.9	66.3	52.1	49.7	62.8	36.9	42.8	47.2	47.9	56.5
10	IIMRQPMH 1603	55.3	54.7	78.1	70.5	66.7	65.1	56.6	61.8	61.4	42.5	58.3	56.1	63.7
11	BQPMH 16	57.2	54.4	76.7	69.1	66.3	64.8	53.1	62.8	63.1	58.6	58.3	59.2	63.7
12	IIMRQPMH 1504*	66.4	56.1	75.7	69.8	65.6	66.7	46.2	63.5	60.6	50.6	68.1	57.8	64.4
13	IMHQPM 1530	45.8	53.3	73.3	65.6	65.6	60.7	55.9	64.6	63.6	39.2	63.9	57.4	61.7
14	IIMRQPMH 1604	49.2	44.2	72.9	64.2	65.3	59.2	40.6	62.8	59.7	40.6	70.1	54.8	61.3
15	IIMRQPMH 1610	34.2	34.7	53.1	65.6	66.3	50.8	46.5	60.4	48.9	36.7	56.9	49.9	56.6
16	IIMRQPMH 1609	44.2	46.4	52.4	66.7	65.6	55.1	49.0	62.8	46.9	53.3	43.1	51.0	58.3
17	QPM-MH-27	54.2	57.8	63.9	69.4	66.7	62.4	53.8	60.8	55.0	44.7	53.5	53.6	61.6
18	IIMRQPMH 1602	58.1	55.3	75.7	64.6	66.0	63.9	67.4	64.9	63.1	49.2	56.9	60.3	64.4
19	KDQH-51	46.1	50.3	76.7	64.9	66.0	60.8	62.2	57.3	53.3	36.9	61.1	54.2	60.0
20	IIMRQPMH 1508	53.9	54.4	66.7	63.9	66.7	61.1	57.3	57.6	56.1	47.8	59.7	55.7	61.5
21	IIMRQPMH 1501	56.4	53.6	79.5	67.4	65.3	64.4	56.6	63.5	65.8	60.0	63.9	62.0	65.5
	CHECKS													
22	Pratap QPM Hybrid 1(C)	51.7	52.2	82.3	64.6	65.6	63.3	55.6	59.0	60.3	35.6	74.3	56.9	63.2
23	Vivek QPM 9(C)	50.0	53.6	69.8	63.2	66.3	60.6	55.2	64.2	63.9	51.4	52.8	57.5	63.7
24	HQPM 1(C)	51.4	52.2	82.3	64.2	66.0	63.2	60.1	61.5	64.2	48.9	58.3	58.6	63.4
25	HQPM 4(C)	51.7	51.4	67.7	70.1	66.3	61.4	45.1	63.2	48.9	50.6	49.3	51.4	61.1
26	HQPM 5(C)	46.1	45.0	65.6	66.0	66.7	57.9	47.6	59.4	53.1	36.9	45.8	48.6	58.7
27	HQPM 7(C)	49.4	51.1	75.3	64.9	66.7	61.5	52.4	68.4	57.8	50.0	67.4	59.2	62.5
	Loc. Mean	**51.3**	**51.2**	**71.3**	**67.1**	**66.2**	**61.4**	**54.3**	**62.6**	**57.4**	**46.4**	**59.4**	**56.1**	**62.1**
	C.D. (5%)	7.31	6.11	11.47	4.12	1.07	6.67	4.62	7.35	9.95	7.47	6.17	7.82	2.52
	C.V. (%)	8.70	7.28	9.81	3.75	0.99	8.65	5.19	7.16	10.57	9.82	6.33	11.12	7.46
	F (Prob)	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00

TABLE No. 18 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED ALMO	BAJA	KANG	IMPH	NHZ ZN 1 Mean	LUDH	KARN	DELH	KANP	PANT	NWPZ ZN 2 Mean	DHOL	BHUB	RANC	VARA	BAHR	KALY	SABO	NEPZ ZN 3 Mean
1	IIMRQPMH 1608	63.3	61.0	53.5	59.0	59.2	54.0	52.3	47.7	45.3	52.7	50.4	57.0	54.0	51.3	51.3	52.3	50.7	50.0	52.4
2	REHQ2014-11	63.3	59.7	51.5	59.0	58.4	52.3	52.0	49.7	46.7	52.3	50.6	55.7	56.0	51.3	53.0	56.3	53.7	52.7	54.1
3	FQH 106	54.7	48.0	47.5	48.0	49.5	45.0	47.0	42.3	45.3	46.3	45.2	50.0	49.0	44.7	47.7	49.3	51.3	46.3	48.3
4	IIMRQPMH 1601	59.3	59.3	53.0	49.7	55.3	52.7	51.0	48.7	45.0	50.7	49.6	54.7	49.0	50.3	51.3	50.3	50.7	51.0	51.0
5	IIMRQPMH 1502	59.3	57.3	52.5	54.3	55.9	50.3	48.7	50.0	46.0	51.7	49.3	55.3	50.0	50.3	50.7	53.3	50.7	51.0	51.6
6	IIMRQPMH 1605	59.0	56.0	51.0	52.7	54.7	47.7	47.0	46.0	45.0	50.0	47.1	54.7	50.0	47.0	49.0	52.7	50.3	49.7	50.5
7	IIMRQPMH 1606	62.7	58.3	51.5	52.7	56.3	51.3	52.7	50.3	52.0	54.3	52.1	56.3	48.0	51.7	50.0	55.7	52.0	51.3	52.1
8	VEHQ-16-1	57.7	53.3	53.0	52.3	54.1	50.0	51.0	47.3	54.7	50.3	50.7	53.0	49.0	46.7	50.3	53.3	53.3	50.0	50.8
9	IIMRQPMH 1607	60.0	57.7	52.0	50.3	55.0	51.7	50.7	46.3	52.3	48.7	49.9	55.3	50.0	49.3	52.0	56.7	52.3	52.0	52.5
10	IIMRQPMH 1603	61.7	57.3	49.5	53.7	55.5	51.0	51.3	50.0	50.7	53.3	51.3	55.7	56.0	50.3	51.3	56.3	49.7	53.3	53.2
11	BQPMH 16	59.7	55.0	51.0	49.3	53.8	50.7	47.0	46.7	50.0	49.7	48.8	53.0	50.0	48.3	48.0	49.3	51.7	49.3	50.0
12	IIMRQPMH 1504*	62.3	57.7	51.0	53.0	56.0	51.0	52.7	50.0	54.3	51.3	51.9	58.0	55.0	51.0	51.0	55.3	53.0	52.7	53.7
13	IMHQPM 1530	56.3	53.0	48.5	47.7	51.4	48.3	47.7	44.3	52.0	48.3	48.1	51.0	48.0	46.3	47.7	49.3	51.7	47.3	48.8
14	IIMRQPMH 1604	59.3	54.7	48.0	53.7	53.9	49.0	48.7	46.0	44.7	49.0	47.5	51.3	50.0	46.7	49.3	52.3	53.3	48.3	50.2
15	IIMRQPMH 1610	61.0	57.3	51.0	54.0	55.8	50.3	51.7	48.3	45.7	52.7	49.7	54.7	48.0	47.7	49.7	55.3	53.3	50.7	51.3
16	IIMRQPMH 1609	60.7	54.0	51.0	52.7	54.6	47.0	48.7	46.3	48.3	50.7	48.2	54.3	50.0	48.7	49.3	48.7	50.7	49.3	50.1
17	QPM-MH-27	63.7	56.7	51.5	52.7	56.1	53.3	52.0	49.3	46.7	51.7	50.6	56.7	53.0	51.0	51.0	57.3	53.0	53.3	53.6
18	IIMRQPMH 1602	60.3	54.0	51.5	53.3	54.8	51.0	48.0	47.7	49.3	50.3	49.3	55.0	51.0	51.3	51.0	55.3	52.0	51.3	52.4
19	KDQH-51	56.7	51.0	48.5	50.3	51.6	46.7	48.0	43.0	46.3	48.0	46.4	49.3	48.0	45.0	45.0	48.3	50.0	45.3	47.3
20	IIMRQPMH 1508	59.0	54.0	50.5	46.0	52.4	51.0	47.7	46.7	47.7	50.0	48.6	54.3	49.0	46.3	48.0	56.3	51.0	48.7	50.5
21	IIMRQPMH 1501	61.0	55.0	53.5	51.3	55.2	52.0	51.7	47.0	46.0	51.0	49.5	54.0	54.0	51.0	50.7	54.7	51.3	50.3	52.3
	CHECKS																			
22	Pratap QPM Hybrid 1(C)	61.0	55.7	53.5	50.3	55.1	51.7	51.0	50.0	45.7	51.0	49.9	56.3	54.0	51.0	50.3	51.7	51.3	51.7	52.3
23	Vivek QPM 9(C)	54.7	48.0	46.0	41.7	47.6	47.0	46.7	41.3	47.7	45.7	45.7	47.3	47.0	44.3	47.0	45.3	50.3	47.0	46.9
24	HQPM 1(C)	62.3	58.0	51.0	53.7	56.3	51.0	52.3	49.7	45.7	51.0	49.9	55.7	55.0	51.0	52.3	55.3	51.3	52.0	53.2
25	HQPM 4(C)	63.3	61.0	51.0	54.3	57.4	51.3	52.7	51.0	49.0	54.0	51.6	57.3	56.0	51.3	52.3	56.3	51.7	53.0	54.0
26	HQPM 5(C)	64.0	60.3	54.0	55.0	58.3	54.0	51.7	49.0	50.7	55.0	52.1	56.3	56.0	52.0	53.3	54.3	50.3	55.0	53.9
27	HQPM 7(C)	64.0	59.0	53.0	51.3	56.8	49.7	51.3	49.0	50.0	53.7	50.7	55.7	55.0	51.0	52.7	55.3	51.7	51.7	53.3
	Loc. Mean	**60.4**	**56.0**	**51.1**	**51.9**	**54.9**	**50.4**	**50.1**	**47.5**	**48.2**	**50.9**	**49.4**	**54.4**	**51.5**	**49.1**	**50.2**	**53.2**	**51.6**	**50.5**	**51.5**
	C.D. (5%)	1.49	3.08	2.09	2.98	2.42	3.33	0.82	2.24	1.19	2.54	2.25	2.71	1.54	1.05	1.28	2.46	4.20	2.30	1.62
	C.V. (%)	1.50	3.36	1.99	3.50	3.14	4.03	1.00	2.87	1.51	3.05	3.64	3.04	1.82	1.30	1.55	2.82	4.97	2.78	2.99
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00

TABLE No. 18 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED					PZ ZN 4 Mean						CWZ ZN 5 Mean	OV'L Mean
		HYDE	KARI	DHAR	MAND	COIM		UDAI	BANS	CHHI	AMBI	GODH		
1	IIMRQPMH 1608	58.0	58.3	60.0	53.7	48.7	55.7	57.7	55.7	60.3	51.7	53.0	55.7	54.3
2	REHQ2014-11	58.7	59.3	61.3	54.7	48.3	56.5	56.3	54.7	61.3	50.7	51.0	54.8	54.7
3	FQH 106	52.0	54.3	55.3	48.0	42.3	50.4	52.0	55.3	55.7	46.7	46.0	51.1	48.9
4	IIMRQPMH 1601	58.3	56.0	58.3	52.3	47.7	54.5	52.3	53.7	58.0	48.7	48.0	52.1	52.3
5	IIMRQPMH 1502	58.7	56.7	57.0	54.0	48.7	55.0	57.3	54.3	60.0	51.7	47.7	54.2	53.0
6	IIMRQPMH 1605	57.3	56.3	59.3	50.7	46.3	54.0	52.3	56.7	57.7	46.7	49.0	52.5	51.5
7	IIMRQPMH 1606	57.3	57.0	60.7	54.0	49.3	55.7	56.3	54.0	60.3	51.7	52.0	54.9	54.0
8	VEHQ-16-1	55.7	55.7	56.0	50.0	46.3	52.7	53.3	56.0	57.0	48.7	46.3	52.3	51.9
9	IIMRQPMH 1607	56.0	55.7	58.3	51.7	46.0	53.5	53.0	54.7	59.7	50.7	49.0	53.4	52.8
10	IIMRQPMH 1603	58.7	59.7	59.7	54.0	49.3	56.3	56.3	55.3	60.7	50.7	52.0	55.0	54.1
11	BQPMH 16	55.3	55.7	58.0	51.0	46.3	53.3	53.0	54.3	58.7	49.7	49.0	52.9	51.5
12	IIMRQPMH 1504*	59.3	59.3	60.0	54.3	49.3	56.5	59.0	55.3	58.7	51.7	52.3	55.4	54.6
13	IMHQPM 1530	55.0	57.3	55.7	48.0	43.3	51.9	52.3	55.3	55.7	44.7	48.0	51.2	50.1
14	IIMRQPMH 1604	56.7	56.3	58.7	50.3	46.7	53.7	55.0	54.3	59.7	46.7	49.0	52.9	51.4
15	IIMRQPMH 1610	54.7	55.7	59.0	53.3	47.3	54.0	54.7	54.3	59.3	51.7	49.0	53.8	52.7
16	IIMRQPMH 1609	57.0	56.3	57.7	51.3	46.3	53.7	54.7	55.0	58.7	46.7	49.0	52.8	51.7
17	QPM-MH-27	58.7	58.0	59.0	53.3	48.3	55.5	54.3	55.3	60.7	51.7	51.0	54.6	54.0
18	IIMRQPMH 1602	57.0	56.3	58.0	53.3	48.0	54.5	53.3	54.3	59.3	48.7	52.0	53.5	52.8
19	KDQH-51	52.0	53.0	54.7	46.7	42.3	49.7	53.0	55.3	57.0	43.0	48.3	51.3	49.0
20	IIMRQPMH 1508	53.7	55.7	57.0	52.3	46.3	53.0	53.3	55.7	58.3	48.7	49.0	53.0	51.4
21	IIMRQPMH 1501	56.0	56.3	57.7	55.7	47.7	54.7	52.0	55.0	59.7	51.7	50.0	53.7	52.9
	CHECKS													
22	Pratap QPM Hybrid 1(C)	59.0	59.0	61.7	53.3	47.7	56.1	53.3	54.7	59.3	52.7	49.0	53.8	53.3
23	Vivek QPM 9(C)	51.0	51.7	56.3	45.3	41.0	49.1	50.7	55.7	53.7	43.7	46.0	49.9	47.8
24	HQPM 1(C)	60.3	57.0	61.3	54.0	49.0	56.3	57.3	55.7	60.0	52.7	50.0	55.1	54.0
25	HQPM 4(C)	60.7	59.0	59.3	55.0	49.7	56.7	59.0	54.7	59.7	50.7	52.0	55.2	54.8
26	HQPM 5(C)	58.3	58.7	62.0	52.7	49.7	56.3	58.3	55.7	61.3	53.7	54.3	56.7	55.2
27	HQPM 7(C)	59.7	57.7	59.7	54.0	49.3	56.1	59.0	55.3	60.0	51.7	50.7	55.3	54.3
	Loc. Mean	**56.9**	**56.7**	**58.6**	**52.1**	**47.1**	**54.3**	**54.8**	**55.0**	**58.9**	**49.5**	**49.7**	**53.6**	**52.6**
	C.D. (5%)	2.46	1.31	3.21	2.89	0.87	1.32	1.36	2.27	1.82	0.72	1.33	1.95	0.85
	C.V. (%)	2.64	1.41	3.35	3.38	1.13	1.94	1.52	2.52	1.88	0.88	1.63	2.91	2.99
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00

TABLE No. 18 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% SILKING				NHZ ZN 1						NWPZ ZN 2								NEPZ ZN 3
		ALMO	BAJA	KANG	IMPH	Mean	LUDH	KARN	DELH	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	KALY	SABO	Mean
1	IIMRQPMH 1608	64.7	63.0	57.0	66.0	62.7	55.0	54.3	50.3	48.3	55.7	52.7	59.3	57.0	55.3	57.0	54.3	53.0	55.7	56.0
2	REHQ2014-11	64.3	61.7	56.5	65.3	62.0	54.0	54.0	52.0	50.0	55.3	53.1	58.0	59.0	54.7	57.7	58.3	56.3	57.3	57.3
3	FQH 106	55.7	50.0	51.5	50.0	51.8	45.7	50.0	44.7	48.7	49.3	47.7	52.0	52.0	47.7	50.3	51.3	53.7	50.0	51.0
4	IIMRQPMH 1601	61.0	61.3	56.5	52.3	57.8	53.0	53.0	51.0	47.7	54.0	51.7	57.3	52.0	53.7	53.7	52.3	53.0	56.0	54.0
5	IIMRQPMH 1502	60.7	59.3	57.0	57.0	58.5	51.3	50.7	53.0	50.0	54.7	51.9	57.3	53.0	54.0	54.0	55.3	55.0	55.0	54.8
6	IIMRQPMH 1605	60.0	58.0	55.5	55.7	57.3	49.3	49.0	48.0	47.7	53.0	49.4	57.0	53.0	51.0	54.0	54.7	53.0	55.3	54.0
7	IIMRQPMH 1606	64.3	60.3	56.5	56.7	59.5	53.7	54.7	54.0	56.0	57.3	55.1	58.7	51.0	55.7	54.7	57.7	54.7	56.7	55.6
8	VEHQ-16-1	58.3	55.7	56.0	57.7	56.9	51.3	53.0	49.7	57.7	53.3	53.0	55.0	52.0	50.7	56.7	55.3	55.7	55.0	54.3
9	IIMRQPMH 1607	61.0	59.7	56.5	52.7	57.5	52.3	52.7	49.0	55.3	51.7	52.2	58.0	53.0	53.0	55.3	58.7	54.3	55.0	55.3
10	IIMRQPMH 1603	63.0	59.3	54.5	56.7	58.4	53.0	53.3	52.3	55.7	56.3	54.1	57.3	59.0	53.3	56.0	58.3	51.7	59.0	56.4
11	BQPMH 16	61.3	57.0	54.5	54.0	56.7	52.0	49.0	49.0	54.0	52.7	51.3	54.7	53.0	51.7	52.7	51.3	53.7	55.0	53.1
12	IIMRQPMH 1504*	62.3	59.7	55.0	57.0	58.5	52.7	54.7	52.3	57.7	54.3	54.3	60.7	58.0	55.0	56.7	57.3	55.0	57.7	57.2
13	IMHQPM 1530	58.3	55.0	52.5	51.7	54.4	50.7	50.7	47.3	55.7	51.0	51.1	53.0	51.0	49.3	52.0	51.3	53.7	53.7	52.0
14	IIMRQPMH 1604	60.7	56.7	51.5	58.7	56.9	50.0	51.7	48.0	48.0	52.0	49.9	53.3	53.0	50.7	52.7	54.3	55.3	52.3	53.1
15	IIMRQPMH 1610	62.0	59.3	55.0	56.0	58.1	50.7	53.7	51.0	49.7	55.3	52.1	56.7	51.0	51.3	52.3	57.3	55.3	54.3	54.0
16	IIMRQPMH 1609	61.7	56.0	56.0	56.0	57.4	49.0	51.7	47.7	52.0	54.0	50.9	56.3	53.0	52.7	54.3	50.7	53.0	52.7	53.2
17	QPM-MH-27	64.3	58.7	55.5	56.0	58.6	54.7	54.0	53.0	50.3	54.3	53.3	59.0	56.0	54.3	57.0	59.3	55.0	59.7	57.2
18	IIMRQPMH 1602	61.3	56.0	55.0	55.7	57.0	52.0	50.0	50.3	52.7	53.7	51.7	57.7	54.0	54.7	54.3	57.3	54.0	55.0	55.3
19	KDQH-51	58.0	53.0	52.5	52.0	53.9	49.0	50.0	46.3	51.3	51.0	49.5	51.3	51.7	48.7	50.0	50.3	52.3	51.7	50.9
20	IIMRQPMH 1508	59.3	56.0	54.0	50.3	54.9	51.3	49.7	48.7	52.7	53.0	51.1	56.7	52.0	50.3	52.0	58.3	53.3	53.7	53.8
21	IIMRQPMH 1501	61.3	57.0	57.5	53.3	57.3	52.7	53.7	49.7	49.7	54.0	51.9	56.3	57.0	54.0	53.7	56.7	53.3	53.3	54.9
	CHECKS																			
22	Pratap QPM Hybrid 1(C)	61.7	57.7	56.5	52.3	57.0	52.7	53.0	52.3	48.7	54.3	52.2	58.7	57.0	54.3	54.7	53.7	53.3	55.3	55.3
23	Vivek QPM 9(C)	56.0	50.7	50.5	46.7	51.0	49.0	49.7	44.3	50.7	49.0	48.5	49.7	50.0	48.7	52.0	47.3	52.7	53.7	50.6
24	HQPM 1(C)	64.0	60.0	54.5	57.3	59.0	52.7	54.3	53.0	49.7	54.3	52.8	58.0	58.0	54.3	57.0	57.3	53.7	56.7	56.4
25	HQPM 4(C)	65.0	63.0	55.0	57.3	60.1	52.7	54.7	53.0	52.0	57.0	53.9	60.0	59.0	55.0	58.0	58.3	53.7	56.3	57.2
26	HQPM 5(C)	64.3	62.3	57.5	57.3	60.4	54.7	53.7	51.7	55.7	58.0	54.7	58.7	59.0	55.0	57.7	56.3	52.7	56.3	56.5
27	HQPM 7(C)	65.0	61.0	56.5	54.0	59.1	51.0	52.3	52.3	54.0	56.7	53.3	58.0	58.0	54.3	57.0	57.3	54.0	56.0	56.4
	Loc. Mean	**61.5**	**58.0**	**55.1**	**55.4**	**57.5**	**51.7**	**52.3**	**50.1**	**51.9**	**53.9**	**52.0**	**56.6**	**54.5**	**52.7**	**54.6**	**55.2**	**53.9**	**55.1**	**54.7**
	C.D. (5%)	1.04	3.09	1.42	2.63	2.70	2.88	0.82	2.52	1.16	2.56	2.27	2.93	1.53	1.08	2.15	2.46	4.14	3.15	1.71
	C.V. (%)	1.03	3.25	1.26	2.90	3.33	3.40	0.96	3.06	1.37	2.90	3.49	3.16	1.71	1.25	2.41	2.72	4.70	3.49	2.97
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00

TABLE No. 18 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% SILKING					PZ ZN 4 Mean						CWZ ZN 5 Mean	OV'L Mean
		HYDE	KARI	DHAR	MAND	COIM		UDAI	BANS	CHHI	AMBI	GODH		
1	IIMRQPMH 1608	60.0	60.7	61.3	57.3	52.3	58.3	58.7	58.7	60.7	54.3	54.7	57.4	57.1
2	REHQ2014-11	60.7	61.7	62.0	57.0	51.7	58.6	58.0	57.7	63.0	52.7	53.0	56.9	57.4
3	FQH 106	54.0	56.3	56.0	49.0	45.7	52.2	53.3	58.3	56.0	48.3	48.0	52.8	51.1
4	IIMRQPMH 1601	59.3	58.3	59.0	52.3	50.3	55.9	54.7	56.7	58.3	50.7	50.0	54.1	54.5
5	IIMRQPMH 1502	60.7	58.7	58.7	56.0	51.7	57.1	58.3	57.3	60.7	53.7	49.7	55.9	55.5
6	IIMRQPMH 1605	59.3	58.7	60.0	53.0	49.0	56.0	54.7	59.7	57.7	49.7	51.0	54.5	54.1
7	IIMRQPMH 1606	59.3	59.0	62.0	58.0	52.7	58.2	58.7	57.0	62.0	53.7	54.0	57.1	56.9
8	VEHQ-16-1	57.7	57.3	57.3	52.7	49.3	54.9	55.0	59.0	57.0	50.7	48.3	54.0	54.5
9	IIMRQPMH 1607	58.0	57.7	58.7	52.7	48.3	55.1	55.3	57.7	59.7	53.3	51.0	55.4	55.0
10	IIMRQPMH 1603	60.7	61.7	62.0	56.7	53.3	58.9	57.3	58.3	61.3	53.0	52.3	56.5	56.8
11	BQPMH 16	57.3	58.3	58.7	54.0	49.0	55.5	54.7	57.3	58.7	52.0	51.0	54.7	54.1
12	IIMRQPMH 1504*	61.3	62.3	61.3	55.7	53.3	58.8	61.0	58.3	60.0	53.7	54.3	57.5	57.2
13	IMHQPM 1530	57.0	59.3	56.7	50.7	46.3	54.0	53.7	58.3	56.7	46.7	51.3	53.3	52.8
14	IIMRQPMH 1604	58.7	58.7	59.7	52.0	49.7	55.7	56.3	57.3	60.3	49.0	51.0	54.8	53.9
15	IIMRQPMH 1610	56.7	58.0	59.0	54.0	50.7	55.7	56.7	57.3	59.7	53.7	51.0	55.7	54.9
16	IIMRQPMH 1609	59.7	58.7	58.3	53.3	49.3	55.9	56.7	58.0	58.7	49.3	51.0	54.7	54.2
17	QPM-MH-27	60.7	60.3	60.7	56.3	52.0	58.0	56.3	58.3	61.7	54.0	53.0	56.7	56.7
18	IIMRQPMH 1602	59.0	58.3	58.7	54.3	50.3	56.1	54.7	57.3	59.7	50.7	54.0	55.3	55.0
19	KDQH-51	54.0	55.0	55.7	49.3	45.7	51.9	55.0	58.3	57.0	45.0	50.3	53.1	51.7
20	IIMRQPMH 1508	55.7	58.3	58.0	53.7	48.3	54.8	56.7	58.7	59.0	51.3	51.0	55.3	53.9
21	IIMRQPMH 1501	58.7	58.7	58.0	55.3	50.0	56.1	53.7	58.0	60.7	53.7	52.0	55.6	55.1
	CHECKS													
22	Pratap QPM Hybrid 1(C)	61.0	61.3	62.0	53.3	50.7	57.7	56.0	57.7	60.3	54.7	51.0	55.9	55.5
23	Vivek QPM 9(C)	52.7	53.7	57.3	47.3	44.3	51.1	52.3	58.7	53.7	46.3	47.7	51.7	50.6
24	HQPM 1(C)	62.3	60.0	62.0	55.7	52.7	58.5	59.0	58.7	60.0	55.0	51.7	56.9	56.6
25	HQPM 4(C)	62.7	61.0	59.7	57.0	54.7	59.0	61.0	57.7	60.3	52.7	54.0	57.1	57.3
26	HQPM 5(C)	61.0	61.0	62.0	56.3	53.7	58.8	59.7	58.7	63.0	55.7	55.3	58.5	57.6
27	HQPM 7(C)	61.7	59.7	60.7	60.0	52.7	58.9	60.0	58.3	61.0	54.0	52.7	57.2	56.9
	Loc. Mean	**58.9**	**59.0**	**59.5**	**54.2**	**50.3**	**56.4**	**56.6**	**58.0**	**59.5**	**51.8**	**51.6**	**55.5**	**55.1**
	C.D. (5%)	2.78	1.31	2.79	2.60	0.97	1.36	1.02	2.27	2.11	0.91	2.01	1.93	0.89
	C.V. (%)	2.88	1.36	2.86	2.93	1.18	1.93	1.10	2.39	2.17	1.07	2.38	2.77	2.97
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00

TABLE No. 18 (Contd.)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK ALMO	BAJA	KANG	IMPH	NHZ ZN 1 Mean	LUDH	KARN	DELH	KANP	PANT	NWPZ ZN 2 Mean	DHOL	BHUB	RANC	VARA	BAHR	KALY	SABO
1	IIMRQPMH 1608	105.7	99.0	103.0	104.3	103.0	86.7	87.3	98.0	88.0	117.0	95.4	88.7	96.0	92.0	86.3	90.7	106.3	89.7
2	REHQ2014-11	107.3	103.7	102.5	103.3	104.2	86.3	87.0	99.3	85.3	117.3	95.1	91.0	95.0	92.0	88.7	88.7	109.3	92.3
3	FQH 106	95.3	88.7	97.5	98.7	95.0	81.0	81.7	90.0	86.3	113.3	90.5	78.3	88.0	89.0	75.3	87.0	102.3	87.7
4	IIMRQPMH 1601	106.3	96.3	102.5	100.0	101.3	87.3	86.7	100.0	89.0	157.0	104.0	89.3	88.7	89.7	80.7	91.3	108.7	92.0
5	IIMRQPMH 1502	103.7	92.0	103.0	100.0	99.7	84.7	89.0	101.0	87.0	117.0	95.7	85.3	88.0	90.3	80.3	92.3	107.3	89.0
6	IIMRQPMH 1605	102.0	93.7	101.5	105.7	100.7	86.0	83.3	95.7	87.3	117.7	94.0	85.3	89.0	88.7	84.7	90.7	101.0	91.7
7	IIMRQPMH 1606	107.7	101.0	102.5	102.0	103.3	85.3	86.0	95.7	91.7	119.3	95.6	88.3	88.0	91.3	83.0	86.3	101.3	93.0
8	VEHQ-16-1	102.0	97.3	102.0	106.0	101.8	82.3	84.0	100.3	95.0	117.0	95.7	85.7	89.0	89.0	82.3	91.7	109.3	90.0
9	IIMRQPMH 1607	102.0	97.0	102.5	97.3	99.7	83.3	84.3	92.7	95.7	110.7	93.3	85.3	93.0	90.7	82.3	91.7	103.7	88.0
10	IIMRQPMH 1603	110.0	96.7	100.5	107.7	103.7	86.7	87.3	99.3	91.7	117.7	96.5	90.0	97.0	91.7	87.0	92.7	100.3	93.7
11	BQPMH 16	103.3	92.0	100.5	98.7	98.6	86.0	84.0	95.7	92.7	117.7	95.2	84.0	87.0	90.7	81.7	88.3	100.7	90.7
12	IIMRQPMH 1504*	108.7	103.3	101.0	107.7	105.2	89.0	84.7	100.7	92.3	116.7	96.7	95.7	98.0	92.0	91.7	84.7	106.0	97.7
13	IMHQPM 1530	100.7	91.7	98.5	96.3	96.8	84.7	82.7	95.7	95.0	115.0	94.6	84.7	88.0	91.3	82.7	86.7	103.7	85.7
14	IIMRQPMH 1604	101.3	92.0	97.5	99.0	97.5	83.3	86.7	92.3	95.7	117.7	95.1	84.0	90.0	89.3	81.3	84.3	105.7	86.7
15	IIMRQPMH 1610	105.0	92.3	101.0	108.0	101.6	82.7	84.7	98.3	98.0	118.3	96.4	85.7	90.0	90.7	81.0	91.7	105.3	90.7
16	IIMRQPMH 1609	102.3	92.3	102.0	104.3	100.3	83.3	83.0	93.3	99.0	116.0	94.9	88.0	88.0	89.0	83.7	90.3	100.3	88.0
17	QPM-MH-27	108.7	101.0	101.5	104.7	104.0	87.3	87.0	100.7	98.7	117.7	98.3	90.3	89.0	91.3	82.7	89.3	105.7	93.0
18	IIMRQPMH 1602	104.3	96.0	101.0	98.3	99.9	84.7	86.7	90.7	99.0	116.0	95.4	90.3	91.0	91.0	83.7	88.7	101.7	90.0
19	KDQH-51	100.3	90.7	98.5	98.3	97.0	83.3	83.7	86.7	100.0	115.0	93.7	79.7	89.0	84.7	75.7	87.3	99.7	88.0
20	IIMRQPMH 1508	105.3	98.0	100.0	97.3	100.2	83.7	86.0	90.3	100.3	115.7	95.2	87.7	88.0	89.7	77.7	92.3	103.0	88.3
21	IIMRQPMH 1501	103.0	93.3	103.5	105.0	101.2	85.0	82.7	95.3	98.7	116.7	95.7	91.0	96.0	90.7	80.7	88.7	101.0	90.7
	CHECKS																		
22	Pratap QPM Hybrid 1(C)	106.7	97.0	102.5	106.0	103.0	88.0	87.0	100.7	95.7	117.7	97.8	92.7	97.0	91.0	87.3	90.7	101.7	91.7
23	Vivek QPM 9(C)	99.0	89.3	96.5	91.3	94.0	82.3	81.0	87.7	98.7	115.0	92.9	80.0	86.0	85.7	74.7	88.0	99.7	89.0
24	HQPM 1(C)	109.3	104.7	100.5	107.0	105.4	89.0	89.0	99.7	94.3	118.3	98.1	94.7	98.0	90.7	93.0	85.3	105.7	96.3
25	HQPM 4(C)	107.3	100.7	101.0	107.7	104.2	89.0	87.0	99.3	96.7	119.0	98.2	93.0	97.0	91.7	92.3	91.7	102.3	94.3
26	HQPM 5(C)	109.3	100.3	103.5	107.7	105.2	89.0	86.3	99.7	91.7	119.0	97.1	90.7	97.0	92.0	85.3	86.3	101.0	94.3
27	HQPM 7(C)	106.0	97.0	102.5	106.7	103.0	86.7	86.0	102.7	92.7	150.3	103.7	90.3	98.0	91.3	87.7	85.0	104.3	93.3
	Loc. Mean	**104.5**	**96.2**	**101.1**	**102.6**	**101.1**	**85.4**	**85.4**	**96.3**	**93.9**	**119.5**	**96.1**	**87.8**	**91.8**	**90.3**	**83.5**	**89.0**	**103.6**	**90.9**
	C.D. (5%)	2.37	1.73	1.42	2.09	3.51	3.08	1.09	2.94	1.54	27.63	6.65	2.68	1.56	1.27	2.98	3.00	5.96	2.62
	C.V. (%)	1.38	1.10	0.69	1.24	2.47	2.20	0.78	1.86	1.00	14.11	5.52	1.87	1.04	0.86	2.18	2.06	3.51	1.76
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.12	0.00	0.00	0.00	0.00	0.00	0.02	0.00

TABLE No. 18 (Contd.)

S.No.	PEDIGREE	NEPZ DAYS TO 75% DRY HUSK ZN 3 Mean	HYDE	KARI	DHAR	MAND	COIM	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ ZN 5 Mean	OV'L Mean
1	IIMRQPMH 1608	92.8	95.0	98.7	99.3	108.7	93.0	98.9	94.3	89.3	101.3	94.3	85.0	92.9	96.1
2	REHQ2014-11	93.9	97.7	99.7	104.0	101.0	92.0	98.9	96.7	89.0	102.3	87.7	85.0	92.1	96.3
3	FQH 106	86.8	83.7	94.3	97.3	92.7	85.7	90.7	85.0	89.3	89.3	87.3	80.0	86.2	89.4
4	IIMRQPMH 1601	91.5	99.0	96.3	100.0	103.3	91.3	98.0	89.7	88.7	98.7	89.3	80.3	89.3	96.2
5	IIMRQPMH 1502	90.4	99.7	96.7	98.3	96.3	93.3	96.9	97.3	89.7	101.0	93.0	80.7	92.3	94.5
6	IIMRQPMH 1605	90.1	96.0	96.7	99.3	97.0	89.3	95.7	95.3	91.0	98.3	93.7	81.0	91.9	93.9
7	IIMRQPMH 1606	90.2	99.0	97.0	103.0	101.0	93.3	98.7	96.7	88.0	98.3	92.3	84.7	92.0	95.2
8	VEHQ-16-1	91.0	94.3	95.3	100.0	103.7	89.7	96.6	97.0	90.0	96.0	87.7	80.0	90.1	94.5
9	IIMRQPMH 1607	90.7	92.3	95.7	98.3	95.3	89.7	94.3	94.3	89.3	92.0	86.3	83.0	89.0	92.9
10	IIMRQPMH 1603	93.2	97.3	99.7	102.0	101.0	94.7	98.9	94.0	89.3	103.0	95.0	83.7	93.0	96.5
11	BQPMH 16	89.0	92.7	96.3	98.7	96.7	89.7	94.8	86.7	88.0	95.3	92.3	83.7	89.2	92.8
12	IIMRQPMH 1504*	95.1	99.3	100.3	108.0	101.7	95.3	100.9	94.0	89.3	103.3	94.7	83.7	93.0	97.7
13	IMHQPM 1530	89.0	91.0	97.3	97.7	95.3	86.3	93.5	94.7	90.3	96.0	94.0	82.3	91.5	92.6
14	IIMRQPMH 1604	88.8	93.7	96.7	99.3	93.3	90.7	94.7	79.7	89.7	96.0	87.3	81.0	86.7	92.1
15	IIMRQPMH 1610	90.7	96.3	96.0	99.0	99.3	91.3	96.4	86.3	88.3	95.0	91.0	83.3	88.8	94.2
16	IIMRQPMH 1609	89.6	93.0	96.7	98.0	94.3	90.0	94.4	86.3	89.3	99.3	92.0	82.3	89.9	93.2
17	QPM-MH-27	91.6	99.7	98.3	102.0	101.7	93.3	99.0	97.0	89.3	100.7	89.3	82.7	91.8	96.3
18	IIMRQPMH 1602	90.9	96.3	96.3	100.7	95.3	90.7	95.9	96.0	92.0	101.7	95.0	85.0	93.9	94.7
19	KDQH-51	86.3	89.0	93.0	99.7	95.3	86.7	92.7	94.0	89.7	95.0	89.3	81.3	89.9	91.3
20	IIMRQPMH 1508	89.5	91.0	96.3	100.0	100.3	89.3	95.4	97.7	89.3	99.0	92.7	83.0	92.3	93.9
21	IIMRQPMH 1501	91.2	94.3	96.7	98.7	101.0	91.3	96.4	97.0	89.0	97.7	93.3	85.0	92.4	94.8
	CHECKS														
22	Pratap QPM Hybrid 1(C)	93.1	98.7	99.3	106.3	104.3	91.3	100.0	86.7	88.7	103.7	91.7	81.3	90.4	96.4
23	Vivek QPM 9(C)	86.1	88.3	91.7	101.0	93.0	85.3	91.9	85.0	90.0	93.7	89.3	80.3	87.7	90.1
24	HQPM 1(C)	94.8	99.7	98.0	112.7	104.3	93.3	101.6	87.7	90.3	104.0	89.0	83.0	90.8	97.6
25	HQPM 4(C)	94.6	101.0	99.0	105.0	102.3	95.7	100.6	98.0	89.0	100.7	93.7	85.0	93.3	97.7
26	HQPM 5(C)	92.4	98.0	99.0	107.7	103.7	94.7	100.6	89.3	90.3	103.3	95.0	85.7	92.7	96.9
27	HQPM 7(C)	92.9	99.7	97.7	106.0	100.7	94.7	99.7	88.7	89.7	100.7	92.0	84.3	91.1	97.5
	Loc. Mean	**91.0**	**95.4**	**97.0**	**101.6**	**99.4**	**91.2**	**96.9**	**92.0**	**89.5**	**98.7**	**91.4**	**82.8**	**90.9**	**94.6**
	C.D. (5%)	2.93	2.28	1.31	5.62	5.82	1.09	2.78	5.37	2.94	2.78	0.72	2.34	3.53	1.81
	C.V. (%)	3.06	1.46	0.83	3.38	3.57	0.73	2.29	3.56	2.01	1.72	0.48	1.72	3.10	3.51
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00	0.00

TABLE No. 18 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm)				NHZ ZN 1						NWPZ ZN 2								NEPZ ZN 3
		ALMO	BAJA	KANG	IMPH	Mean	LUDH	KARN	DELH	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	KALY	SABO	Mean
1	IIMRQPMH 1608	240.0	213.3	254.0	192.1	224.9	178.3	200.0	205.1	178.7	266.0	205.6	128.0	151.7	198.2	185.0	171.4	195.6	172.7	171.8
2	REHQ2014-11	233.3	213.3	212.5	191.8	212.7	198.3	178.0	211.4	175.7	278.0	208.3	140.7	169.3	199.1	156.7	175.8	172.1	177.3	170.1
3	FQH 106	198.3	173.3	191.0	195.7	189.6	165.0	165.7	167.1	165.3	223.7	177.4	113.0	156.0	162.6	160.0	156.5	159.4	128.7	148.0
4	IIMRQPMH 1601	213.3	185.0	187.5	182.4	192.1	170.0	203.0	179.2	168.3	231.7	190.4	121.3	154.7	172.4	156.7	151.4	177.1	147.0	154.4
5	IIMRQPMH 1502	231.7	195.0	218.5	200.3	211.4	178.3	202.0	199.6	164.7	240.7	197.1	133.0	161.0	194.5	191.7	160.6	160.8	175.0	168.1
6	IIMRQPMH 1605	230.0	180.0	209.0	188.1	201.8	183.3	201.7	181.1	178.3	257.7	200.4	138.0	164.3	177.6	173.3	179.7	174.7	154.7	166.0
7	IIMRQPMH 1606	238.3	198.3	223.0	229.5	222.3	168.3	182.0	182.4	187.0	234.7	190.9	120.7	153.7	187.1	173.3	164.3	159.4	145.7	157.7
8	VEHQ-16-1	216.7	190.0	213.0	224.7	211.1	183.3	183.7	202.7	186.7	257.0	202.7	129.0	165.0	187.5	171.7	166.7	164.1	151.0	162.1
9	IIMRQPMH 1607	251.7	216.7	241.5	247.9	239.4	190.0	182.0	213.3	193.3	289.3	213.6	129.0	155.7	193.5	178.3	171.6	162.5	164.7	165.0
10	IIMRQPMH 1603	243.3	206.7	232.5	244.6	231.8	180.0	194.3	193.0	199.7	261.3	205.7	138.0	161.7	194.6	175.0	175.9	205.8	170.7	174.5
11	BQPMH 16	231.7	196.7	212.0	256.3	224.2	178.3	208.7	187.9	180.0	254.0	201.8	135.3	164.3	172.5	165.0	169.4	171.8	148.7	161.0
12	IIMRQPMH 1504*	233.3	198.3	200.5	251.8	221.0	176.7	194.0	193.8	197.0	253.3	203.0	135.7	156.3	195.1	171.7	174.8	154.7	172.3	165.8
13	IMHQPM 1530	238.3	201.7	224.0	248.3	228.1	176.7	183.7	192.6	180.0	261.3	198.9	139.0	155.0	181.8	180.0	169.7	219.3	149.0	170.5
14	IIMRQPMH 1604	233.3	213.3	207.5	203.5	214.4	185.0	192.3	180.3	165.3	240.0	192.6	148.0	159.7	174.9	178.3	168.4	176.4	160.7	166.6
15	IIMRQPMH 1610	231.7	201.7	201.0	187.1	205.4	196.7	196.0	205.8	168.3	268.3	207.0	136.3	157.3	197.2	181.7	160.7	174.8	158.3	166.6
16	IIMRQPMH 1609	245.0	226.7	216.5	199.5	221.9	188.3	191.7	205.9	164.7	289.3	208.0	128.7	164.0	192.9	188.3	166.1	183.5	175.0	171.2
17	QPM-MH-27	258.3	238.3	236.0	235.0	241.9	221.7	184.7	215.2	178.3	289.0	217.8	146.3	165.0	206.0	190.0	194.5	185.4	203.0	184.3
18	IIMRQPMH 1602	236.7	185.0	208.5	191.0	205.3	175.0	186.0	196.9	175.7	234.3	193.6	139.7	159.7	171.7	161.7	148.0	195.3	167.0	163.3
19	KDQH-51	201.7	193.3	193.5	202.8	197.8	170.0	187.0	189.5	163.3	248.7	191.7	135.3	162.3	183.9	161.7	187.0	183.0	148.7	166.0
20	IIMRQPMH 1508	216.7	193.3	236.5	222.7	217.3	168.3	184.3	190.7	174.0	238.3	191.1	121.3	156.3	183.3	175.0	160.4	175.0	151.3	160.4
21	IIMRQPMH 1501	233.3	200.0	191.0	253.1	219.4	183.3	177.3	204.5	169.0	264.0	199.6	124.7	158.3	196.3	175.0	180.8	178.0	182.0	170.7
	CHECKS																			
22	Pratap QPM Hybrid 1(C)	231.7	193.3	191.0	247.9	216.0	185.0	184.3	201.7	171.3	272.3	202.9	131.3	158.7	190.6	180.0	171.0	182.3	169.0	169.0
23	Vivek QPM 9(C)	208.3	188.3	208.5	232.4	209.4	160.0	199.3	190.3	169.7	242.7	192.4	124.0	163.0	188.1	175.0	163.8	178.3	149.0	163.0
24	HQPM 1(C)	228.3	186.7	211.5	257.8	221.1	183.3	188.0	185.1	167.3	278.0	200.4	136.7	162.7	189.9	165.0	173.9	187.2	163.7	168.4
25	HQPM 4(C)	250.0	238.3	230.0	272.5	247.7	218.3	196.7	219.2	178.3	302.3	223.0	145.0	161.7	195.3	196.7	185.5	193.9	202.3	182.9
26	HQPM 5(C)	246.7	225.0	236.0	249.2	239.2	193.3	196.3	210.3	199.7	287.7	217.5	152.3	161.7	194.5	158.3	164.9	201.4	190.7	174.8
27	HQPM 7(C)	251.7	216.7	211.0	218.6	224.5	188.3	208.3	207.6	180.0	268.3	210.5	132.3	167.7	177.9	180.0	175.6	157.1	180.7	167.3
	Loc. Mean	**232.3**	**202.5**	**214.7**	**223.2**	**218.2**	**183.1**	**190.8**	**196.8**	**177.0**	**260.4**	**201.6**	**133.4**	**160.2**	**187.4**	**174.3**	**169.9**	**178.8**	**165.1**	**167.0**
	C.D. (5%)	14.43	20.23	7.08	31.75	21.75	21.27	4.02	13.70	7.31	19.83	14.22	20.19	7.49	14.04	19.36	17.60	12.23	19.51	10.64
	C.V. (%)	3.79	6.10	1.60	8.68	7.08	7.09	1.28	4.25	2.52	4.65	5.62	9.23	2.85	4.58	6.78	6.32	4.18	7.21	6.03
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 18 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) HYDE	KARI	DHAR	MAND	COIM	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ ZN 5 Mean	OV'L Mean
1	IIMRQPMH 1608	206.3	130.7	228.7	231.0	190.8	197.5	158.3	173.3	187.3	217.5	152.0	177.7	192.5
2	REHQ2014-11	214.3	135.0	236.0	210.0	183.8	195.8	159.3	188.3	169.3	216.2	164.3	179.5	190.8
3	FQH 106	188.0	109.7	213.7	177.3	165.1	170.8	145.0	186.7	148.7	189.2	134.3	160.8	166.9
4	IIMRQPMH 1601	180.0	116.0	232.7	174.3	149.3	170.5	126.7	178.3	143.0	191.7	139.3	155.8	170.5
5	IIMRQPMH 1502	209.3	137.7	218.0	215.3	188.1	193.7	177.3	185.0	166.3	219.4	147.0	179.0	187.3
6	IIMRQPMH 1605	192.0	140.0	235.3	199.3	178.7	189.1	158.3	195.0	182.0	221.1	141.3	179.5	185.2
7	IIMRQPMH 1606	193.7	122.3	230.7	205.7	184.7	187.4	160.0	156.7	161.0	199.1	152.0	165.7	181.3
8	VEHQ-16-1	202.7	128.7	222.3	195.0	180.1	185.7	151.7	170.0	153.3	211.9	158.7	169.1	183.3
9	IIMRQPMH 1607	219.3	132.0	227.0	218.3	213.8	202.1	160.0	186.7	190.3	230.7	158.7	185.3	196.8
10	IIMRQPMH 1603	206.0	136.0	228.3	213.7	200.8	197.0	161.7	160.0	169.7	216.4	152.0	171.9	193.1
11	BQPMH 16	194.0	138.7	243.3	194.0	191.0	192.2	125.0	186.7	157.0	197.9	137.7	160.8	184.5
12	IIMRQPMH 1504*	215.3	157.0	221.3	217.0	171.5	196.4	146.7	173.3	181.3	219.2	152.0	174.5	189.0
13	IMHQPM 1530	214.0	152.0	230.7	178.0	195.2	194.0	155.0	178.3	154.7	201.1	144.3	166.7	188.6
14	IIMRQPMH 1604	195.7	126.0	219.3	208.7	186.6	187.3	161.7	185.0	184.7	210.3	137.7	175.9	184.7
15	IIMRQPMH 1610	214.7	126.7	226.3	213.0	202.1	196.5	178.3	166.7	170.7	216.5	157.7	178.0	188.3
16	IIMRQPMH 1609	217.7	152.3	227.0	203.7	198.1	199.8	165.0	181.7	177.0	237.8	147.0	181.7	193.6
17	QPM-MH-27	225.7	143.0	249.7	241.7	188.9	209.8	208.3	176.7	181.3	236.5	151.7	190.9	205.8
18	IIMRQPMH 1602	197.3	142.7	215.0	210.7	192.4	191.6	170.0	175.0	166.0	206.6	149.3	173.4	183.0
19	KDQH-51	197.3	136.7	220.0	182.0	185.1	184.2	168.3	165.0	168.3	207.3	144.3	170.7	180.2
20	IIMRQPMH 1508	199.0	139.0	227.3	194.0	168.3	185.5	170.0	141.7	152.0	211.1	154.7	165.9	181.0
21	IIMRQPMH 1501	212.0	129.7	239.3	229.3	195.6	201.2	165.0	180.0	157.7	226.1	157.0	177.1	190.9
	CHECKS													
22	Pratap QPM Hybrid 1(C)	208.3	144.0	219.7	224.7	190.3	197.4	171.7	178.3	174.7	215.9	150.0	178.1	190.0
23	Vivek QPM 9(C)	210.0	130.0	233.7	194.0	155.1	184.5	160.0	176.7	178.3	194.3	137.7	169.4	181.2
24	HQPM 1(C)	210.7	143.7	226.0	230.0	197.9	201.6	150.0	179.3	180.0	221.5	145.3	175.2	190.4
25	HQPM 4(C)	231.3	167.0	224.7	233.3	197.7	210.8	150.0	186.7	182.0	259.0	164.3	188.4	207.0
26	HQPM 5(C)	215.0	128.7	238.7	234.7	199.3	203.3	119.0	186.7	174.3	236.7	149.3	173.2	198.1
27	HQPM 7(C)	220.7	163.7	225.3	212.3	186.7	201.7	156.7	176.7	157.7	250.1	150.3	178.3	193.2
	Loc. Mean	**207.0**	**137.4**	**228.1**	**208.9**	**186.6**	**193.6**	**158.5**	**176.8**	**169.2**	**217.1**	**149.3**	**174.2**	**188.0**
	C.D. (5%)	18.05	12.72	27.84	27.69	9.75	13.75	10.62	37.88	17.39	18.75	15.61	15.64	6.44
	C.V. (%)	5.32	5.65	7.45	8.09	3.19	5.66	4.09	13.07	6.27	5.27	6.38	7.16	6.29
	F (Prob)	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.01	0.00	0.00

TABLE No. 18 (Contd.)

S.No.	PEDIGREE	EAR HEIGHT(cm)				NHZ ZN 1						NWPZ ZN 2								NEPZ ZN 3
		ALMO	BAJA	KANG	IMPH	Mean	LUDH	KARN	DELH	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	KALY	SABO	Mean
1	IIMRQPMH 1608	118.3	91.7	121.5	57.8	97.3	88.3	87.0	76.5	65.3	92.3	81.9	63.0	61.0	93.2	80.0	60.2	51.5	59.0	66.8
2	REHQ2014-11	128.3	121.7	114.0	69.8	108.5	106.7	79.0	83.4	68.7	117.0	90.9	62.0	63.7	93.4	78.3	75.3	46.0	81.0	71.4
3	FQH 106	83.3	60.0	84.0	56.5	71.0	78.3	63.0	59.7	71.7	70.0	68.5	49.0	66.0	67.1	75.0	45.9	43.9	53.0	57.1
4	IIMRQPMH 1601	105.0	81.7	96.5	64.9	87.0	90.0	95.7	73.2	73.3	87.7	84.0	54.7	59.0	71.9	70.0	58.0	49.1	58.3	60.1
5	IIMRQPMH 1502	118.3	101.7	114.0	76.4	102.6	106.7	103.0	86.7	64.0	90.0	90.1	60.0	60.0	90.5	93.3	56.6	30.6	78.3	67.1
6	IIMRQPMH 1605	115.0	81.7	102.5	65.1	91.1	98.3	108.0	66.0	63.0	99.3	86.9	63.0	63.0	71.9	85.0	57.0	50.3	63.3	64.8
7	IIMRQPMH 1606	123.3	78.3	118.5	91.5	102.9	80.0	91.7	74.6	73.7	87.7	81.5	55.3	62.3	87.5	76.7	49.2	43.2	50.7	60.7
8	VEHQ-16-1	98.3	70.0	100.5	72.1	85.2	91.7	94.0	82.9	62.7	84.3	83.1	61.3	66.7	77.1	75.0	62.5	44.8	69.7	65.3
9	IIMRQPMH 1607	136.7	120.0	129.0	96.2	120.5	100.0	86.7	89.6	72.3	117.7	93.3	60.0	67.3	92.7	88.3	67.9	44.6	66.7	69.6
10	IIMRQPMH 1603	121.7	90.0	116.5	99.7	107.0	86.7	89.0	67.0	82.3	89.7	82.9	60.3	70.0	78.9	83.3	56.6	52.1	63.7	66.4
11	BQPMH 16	111.7	85.0	106.5	99.7	100.7	96.7	101.0	76.3	92.7	98.3	93.0	55.7	72.0	71.9	83.3	59.9	44.5	62.3	64.2
12	IIMRQPMH 1504*	115.0	90.0	105.0	94.3	101.1	91.7	92.3	82.6	91.7	94.3	90.5	68.0	64.7	89.9	88.3	56.2	41.8	73.7	68.9
13	IMHQPM 1530	118.3	75.0	114.0	93.7	100.3	91.7	102.0	75.4	100.0	92.3	92.3	68.0	66.0	85.2	88.3	65.0	60.5	58.0	70.1
14	IIMRQPMH 1604	120.0	101.7	106.0	67.3	98.8	106.7	93.7	72.6	56.3	98.3	85.5	72.3	68.0	78.2	93.3	54.8	49.5	73.3	69.9
15	IIMRQPMH 1610	113.3	88.3	100.5	56.3	89.6	108.3	83.0	81.9	65.3	99.0	87.5	66.3	63.3	86.9	93.3	59.7	42.8	74.3	69.5
16	IIMRQPMH 1609	133.3	103.3	106.5	57.9	100.3	103.3	94.0	80.4	68.7	118.3	92.9	60.3	67.0	85.1	86.7	66.8	63.7	76.0	72.2
17	QPM-MH-27	138.3	115.0	121.5	75.3	112.5	126.7	85.7	80.0	71.7	115.7	95.9	73.0	66.0	104.3	83.3	90.0	43.9	97.0	79.7
18	IIMRQPMH 1602	115.0	98.3	108.0	65.5	96.7	93.3	95.7	88.7	73.3	90.7	88.3	69.0	66.3	77.9	80.0	60.8	61.5	79.3	70.7
19	KDQH-51	93.3	93.3	95.0	65.2	86.7	90.0	84.0	85.1	64.0	89.0	82.4	61.3	62.7	74.5	73.3	73.0	62.3	64.0	67.3
20	IIMRQPMH 1508	106.7	88.3	117.5	83.5	99.0	91.7	103.3	70.5	63.0	81.0	81.9	60.0	64.0	80.5	83.3	51.0	52.5	67.0	65.5
21	IIMRQPMH 1501	115.0	90.0	94.0	96.1	98.8	96.7	76.0	80.3	62.0	91.3	81.3	64.0	64.7	88.5	88.3	70.8	55.9	86.7	74.1
	CHECKS																			
22	Pratap QPM Hybrid 1(C)	110.0	75.0	96.5	85.4	91.7	85.0	88.0	76.0	72.3	93.0	82.9	55.7	64.0	85.7	76.7	62.9	56.1	70.0	67.3
23	Vivek QPM 9(C)	100.0	83.3	94.0	89.3	91.7	78.3	98.3	82.4	77.0	80.3	83.3	57.3	70.3	77.4	85.0	52.5	51.5	66.7	65.8
24	HQPM 1(C)	111.7	83.3	109.5	99.1	100.9	90.0	82.7	71.3	65.3	105.3	82.9	56.3	66.7	75.7	76.7	64.8	57.7	70.0	66.8
25	HQPM 4(C)	143.3	121.7	124.0	121.0	127.5	118.3	102.0	98.1	69.7	134.3	104.5	66.7	65.0	89.7	103.3	83.2	58.2	94.7	80.1
26	HQPM 5(C)	130.0	125.0	116.5	105.3	119.2	105.0	104.7	91.1	82.3	126.7	102.0	72.3	68.3	94.2	86.7	67.0	63.8	85.7	76.9
27	HQPM 7(C)	131.7	98.3	104.0	76.6	102.7	95.0	104.0	91.3	92.7	107.7	98.1	60.0	69.0	76.1	85.0	66.9	39.4	82.7	68.4
	Loc. Mean	**116.9**	**93.0**	**108.0**	**80.8**	**99.7**	**96.1**	**92.1**	**79.4**	**72.8**	**98.2**	**87.7**	**62.0**	**65.4**	**83.2**	**83.7**	**62.8**	**50.4**	**71.3**	**68.4**
	C.D. (5%)	13.53	19.21	6.96	20.53	15.16	19.34	3.36	8.29	3.81	15.33	12.28	12.75	3.88	8.51	16.31	15.01	10.44	14.95	7.33
	C.V. (%)	7.07	12.61	3.13	15.50	10.80	12.28	2.23	6.37	3.19	9.53	11.16	12.54	3.62	6.25	11.89	14.60	12.64	12.80	10.15
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.06	0.00	0.00	0.00	0.00

TABLE No. 18 (Contd.)

S.No.	PEDIGREE	EAR HEIGHT(cm) HYDE	KARI	DHAR	MAND	COIM	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ ZN 5 Mean	OV'L Mean
1	IIMRQPMH 1608	80.7	40.3	104.7	115.7	100.6	88.4	45.0	75.0	74.0	74.5	66.7	67.0	78.6
2	REHQ2014-11	86.7	46.7	106.3	122.0	97.2	91.8	65.0	81.7	84.0	78.4	69.3	75.7	85.6
3	FQH 106	62.3	31.3	71.7	75.0	65.5	61.2	51.7	86.7	47.7	64.2	51.7	60.4	62.9
4	IIMRQPMH 1601	72.0	42.3	99.3	79.3	75.5	73.7	50.0	96.7	56.0	66.9	61.0	66.1	72.6
5	IIMRQPMH 1502	90.3	46.0	104.0	116.7	103.3	92.1	77.7	85.0	75.7	80.7	66.0	77.0	83.7
6	IIMRQPMH 1605	79.3	47.0	100.3	105.7	101.1	86.7	61.7	93.3	81.7	76.4	56.7	73.9	79.1
7	IIMRQPMH 1606	74.0	34.3	109.7	111.3	95.7	85.0	65.0	75.0	64.7	71.8	55.0	66.3	76.9
8	VEHQ-16-1	81.3	34.3	89.3	94.7	73.5	74.6	71.7	73.3	51.7	73.8	71.7	68.4	74.2
9	IIMRQPMH 1607	93.7	36.0	111.0	118.0	108.4	93.4	50.0	73.3	78.3	84.1	69.3	71.0	86.8
10	IIMRQPMH 1603	79.3	39.0	92.7	106.0	99.0	83.2	61.7	73.3	70.7	74.2	69.3	69.8	79.7
11	BQPMH 16	82.7	42.7	104.3	105.7	103.2	87.7	48.3	83.3	62.3	69.9	59.3	64.6	80.0
12	IIMRQPMH 1504*	83.7	56.7	101.0	115.7	94.3	90.3	38.3	86.7	83.7	77.1	66.0	70.3	82.4
13	IMHQPM 1530	85.3	51.7	90.0	100.0	93.6	84.1	65.0	85.0	65.3	69.7	66.7	70.3	81.8
14	IIMRQPMH 1604	77.3	29.3	103.0	121.7	102.4	86.7	63.3	95.0	82.0	75.2	66.0	76.3	81.8
15	IIMRQPMH 1610	86.0	30.7	106.0	120.7	106.4	89.9	73.3	70.0	75.3	75.3	64.3	71.7	80.4
16	IIMRQPMH 1609	82.0	52.7	97.3	109.0	102.4	88.7	58.3	81.7	75.3	83.2	63.3	72.4	83.7
17	QPM-MH-27	105.3	46.0	129.0	143.3	107.1	106.1	78.3	76.7	82.7	90.3	61.7	77.9	92.6
18	IIMRQPMH 1602	82.3	42.7	102.0	121.0	100.9	89.8	76.7	75.0	73.7	78.6	65.0	73.8	82.4
19	KDQH-51	83.3	39.3	92.7	102.7	83.8	80.4	80.0	83.3	59.3	72.5	54.3	69.9	76.2
20	IIMRQPMH 1508	90.3	37.7	92.3	102.0	84.9	81.4	70.0	76.7	81.0	73.3	61.0	72.4	78.2
21	IIMRQPMH 1501	82.3	33.0	112.7	111.0	97.4	87.3	51.7	85.0	71.7	82.7	61.7	70.5	81.1
	CHECKS													
22	Pratap QPM Hybrid 1(C)	73.3	48.7	84.7	108.0	93.8	81.7	65.0	85.0	64.7	73.1	56.0	68.8	77.1
23	Vivek QPM 9(C)	87.3	32.3	98.3	95.0	62.8	75.2	72.7	91.7	67.3	67.3	62.7	72.3	76.2
24	HQPM 1(C)	77.0	45.0	94.7	115.3	104.9	87.4	56.7	96.7	78.0	75.9	59.3	73.3	80.4
25	HQPM 4(C)	105.3	63.0	107.7	144.0	116.4	107.3	55.0	93.3	86.7	101.5	78.3	83.0	97.9
26	HQPM 5(C)	96.7	46.0	125.0	136.0	107.7	102.3	49.0	83.3	78.7	92.9	68.3	74.4	92.6
27	HQPM 7(C)	93.7	60.7	105.3	129.0	106.7	99.1	66.7	78.3	77.3	88.0	71.0	76.3	86.8
	Loc. Mean	**84.2**	**42.8**	**101.3**	**112.0**	**95.9**	**87.2**	**61.8**	**83.0**	**72.2**	**77.5**	**63.8**	**71.6**	**81.2**
	C.D. (5%)	11.04	8.02	15.84	14.38	6.94	10.06	7.06	21.00	11.45	9.91	13.89	10.77	4.87
	C.V. (%)	8.00	11.45	9.54	7.84	4.42	9.19	6.98	15.45	9.68	7.81	13.29	11.98	11.01
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.09	0.09	0.00

TABLE No. 19 **PERFORMANCE OF POPCORN EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, IMPHAL, LUDHIANA, KARNAL, DELHI, KANPUR, PANTNAGAR, DHOLI, BHUBANESHWAR, RANCHI, BAHRAICH, KALYANI, SABOUR, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, COIMBATORE, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA IN TRIAL No. TRPOPCORN I-II-III DURING KHARIF 2016**

Sl		GRAIN YIELD (kg/ha) AT 15% MOISTURE						NHZ(ZN 1)												NWPZ ZN 2	
No	PEDIGREE	ALMO	R	BAJA	R	KANG	R	MEAN	R	LUDH	R	KARN	R	DELH	R	KANP	R	PANT	R	MEAN	R
1	IMHP-1535	3312	4	4800	9	1599	13	3237	8	3226	5	3326	12	3219	11	3477	3	3241	7	3298	9
2	MPC 1-15	2358	13	4275	13	2296	6	2976	13	3308	4	2938	13	4290	4	2897	10	3261	6	3339	7
3	Pop corn(Jaya Shree)	2542	10	4434	11	2405	2	3127	12	1649	11	4986	1	3562	10	3429	4	1657	14	3057	11
4	IHPC-1203	2678	8	6557	2	2250	8	3829	3	4858	1	3823	7	3918	7	3260	5	4655	1	4103	1
5	ROBUST 265	2682	7	4845	8	2076	10	3201	10	1078	14	2543	14	3201	12	3201	7	2539	12	2512	13
6	IMHP 1540	3536	2	5456	6	2540	1	3844	2	3168	6	3957	5	4224	5	2761	14	3302	5	3482	5
7	DPCH-306	3216	5	5486	5	2268	7	3657	5	3113	7	3560	10	4733	2	2858	11	3814	4	3616	4
8	ROBUST 427	2421	12	5214	7	1892	12	3176	11	1463	12	3934	6	3106	13	3593	1	2587	11	2937	12
9	AP2202	2427	11	3839	14	1933	11	2733	14	1196	13	3674	9	1880	14	3171	9	2317	13	2448	14
10	DMRHP-1402	2311	14	7473	1	2307	5	4031	1	3345	3	4176	3	4531	3	2819	12	4302	2	3835	3
11	AP6005	3330	3	6341	3	1563	14	3745	4	1928	9	4877	2	3674	8	3175	8	2920	9	3315	8
12	IHPC-1201	2862	6	5973	4	2077	9	3637	6	3833	2	3512	11	5033	1	2784	13	4045	3	3841	2
13	SJPC1	3802	1	4291	12	2396	3	3496	7	2176	8	4052	4	4199	6	3219	6	3147	8	3359	6
	CHECKS																				
14	VL Amber Popcorn (C)	2598	9	4743	10	2339	4	3226	9	1853	10	3678	8	3620	9	3517	2	2851	10	3104	10
	Location Mean	**2862**		**5266**		**2139**		**3422**		**2585**		**3788**		**3799**		**3154**		**3189**		**3303**	
	C.D. (5%)	627		381		234		414		711		301		479		301		743		507	
	C.V. (%)	13.02		4.3		6.5		-		16.35		4.73		7.5		5.67		13.85		-	
	F (Prob)	0		0		0				0		0		0		0		0			
	Plot Size	7.2		7.2		4.8		-		9.6		9.6		12		9.6		9		-	
	AGRONOMY DATA																				
	Sowing Date	30-06		21-06		23-06		-		25-06		3-07		8-07		23-07		29-06		-	
	Harvest Date	21-10		18-10		30-10		-		7-10		30-10		19-10		17-11		6-10		-	
	Irrigation Nos	-		2		-		-		7		5		7		2		-		-	
	Ferilizer Applied N	100		120		120		-		50		-		-		120		120		-	
	Ferilizer Applied P	60		60		60		-		24		-		-		60		60		-	
	Ferilizer Applied K	40		40		40		-		12		-		-		50		40		-	

LOCATIONS REJECTED DUE TO HIGH C.V. : IMPH , RANC 34.1 %: SABO 21.7 %: DHAR 22.6 %,

TABLE No. 19 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												NEPZ ZN 3										PZ ZN 4	
		DHOL	R	BHUB	R	RANC	R	BAHR	R	KALY	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	COIM	R	MEAN	R
1	IMHP-1535	1528	9	3266	5	2083	5	3195	8	3653	9	2011	9	2910	9	3616	7	2706	7	4210	4	5725	6	3283	11	3833	9
2	MPC 1-15	1531	8	2959	11	1998	6	3973	3	3214	13	2685	6	2919	8	3181	10	2540	8	1430	13	5633	8	2931	14	3571	11
3	Pop corn(Jaya Shree)	1505	11	3140	6	2095	4	3325	7	3260	12	1813	12	2807	11	3409	8	2256	9	2877	8	5317	10	3483	8	3616	10
4	IHPC-1203	1571	6	3366	2	1983	7	5208	1	4646	3	3205	2	3697	1	4747	1	3647	2	5243	1	6398	4	3956	4	4687	1
5	ROBUST 265	1496	12	3050	8	1492	11	3103	11	3670	8	1949	10	2830	10	2303	13	1166	13	2217	12	-		3271	12	2246	14
6	IMHP 1540	1537	7	3303	4	1692	9	3391	6	4320	4	2888	4	3138	6	4714	2	4050	1	3373	7	5714	7	3422	9	4475	2
7	DPCH-306	1522	10	3020	9	2229	2	3909	4	5008	2	3073	3	3365	3	3755	6	2936	6	4003	6	6671	3	3316	10	4169	5
8	ROBUST 427	2392	1	3436	1	1455	12	3052	12	3760	7	1670	13	3160	5	1772	14	1087	14	992	14	5024	11	3889	5	2943	13
9	AP2202	1652	4	2345	13	1443	13	2206	14	2993	14	1655	14	2299	14	2772	12	1981	12	2589	10	6844	2	3771	6	3842	8
10	DMRHP-1402	1319	14	3322	3	2309	1	4296	2	3911	6	2835	5	3212	4	4548	3	3473	3	4389	2	-		4064	3	4028	6
11	AP6005	1491	13	3097	7	731	14	3158	10	4015	5	2319	7	2940	7	3020	11	2168	11	2812	9	6846	1	4718	1	4188	4
12	IHPC-1201	1644	5	2979	10	2191	3	3710	5	5150	1	3274	1	3371	2	4375	4	3036	5	4034	5	5752	5	4589	2	4438	3
13	SJPC1	1722	2	2804	12	1920	8	3163	9	3289	11	2235	8	2744	12	3881	5	3212	4	4315	3	5542	9	3055	13	3923	7
	CHECKS																										
14	VL Amber Popcorn (C)	1703	3	2295	14	1689	10	2389	13	3540	10	1934	11	2482	13	3277	9	2235	10	2577	11	-		3736	7	3082	12
	Location Mean	**1615**		**3027**		**1808**		**3434**		**3888**		**2396**		**2991**		**3526**		**2607**		**3219**		**5840**		**3677**		**3913**	
	C.D. (5%)	458		254		1036		385		714		875		453		891		723		1226		433		519		642	
	C.V. (%)	16.87		4.99		**34.09**		6.67		10.91		**21.71**		**-**		15.03		16.49		**22.65**		4.39		8.4		**-**	
	F (Prob)	0.021		0		0.194		0		0		0.001				0		0		0		0		0			
	Plot Size	12		9.6		11.2		9.6		9.6		9.6		-		12		12		9.6		9.6		9.6		-	
	AGRONOMY DATA																										
	Sowing Date	28-06		21-07		23-07		26-06		24-06		2-07		-		22-06		16-07		27-06		3-08		13-07		-	
	Harvest Date	15-10		27-10		-		20-09		3-10		21-10		-		22-10		6-11		19-10		21-11		25-10		-	
	Irrigation Nos	2		-		-		-		-		3		-		4		4		2		8		9		-	
	Ferilizer Applied N	120		120		120		120		150		130		-		180		200		150		150		250		-	
	Ferilizer Applied P	60		60		60		60		75		40		-		60		60		65		75		75		-	
	Ferilizer Applied K	40		60		40		60		75		30		-		50		50		65		40		75		-	

TABLE No. 19 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										CWZ ZN 5		OV'L	
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	MEAN	R	MEAN	R
1	IMHP-1535	3809	6	1375	13	3295	6	1842	4	977	11	2260	6	3070	6
2	MPC 1-15	3320	12	1467	7	2732	8	1143	11	911	13	1915	10	2912	10
3	Pop corn(Jaya Shree)	3800	7	1437	9	1645	10	2136	2	1924	1	2188	7	2919	9
4	IHPC-1203	3025	13	2212	1	4588	1	1886	3	1340	5	2610	2	3742	1
5	ROBUST 265	4223	2	1487	6	798	12	1691	6	1044	10	1849	12	2473	14
6	IMHP 1540	4085	3	1425	11	3672	3	2357	1	1582	2	2624	1	3453	3
7	DPCH-306	3727	8	1591	2	3521	4	1719	5	1202	7	2352	3	3378	5
8	ROBUST 427	4332	1	1580	5	973	11	1427	10	1152	9	1893	11	2766	11
9	AP2202	3988	4	1322	14	503	14	1444	9	1233	6	1698	13	2547	13
10	DMRHP-1402	3973	5	1585	4	3510	5	1590	7	940	12	2320	4	3390	4
11	AP6005	3501	10	1436	10	719	13	1479	8	415	14	1510	14	3042	7
12	IHPC-1201	3499	11	1450	8	3883	2	1131	12	1396	4	2272	5	3463	2
13	SJPC1	2928	14	1586	3	2550	9	1044	14	1568	3	1935	9	3030	8
	CHECKS														
14	VL Amber Popcorn (C)	3600	9	1412	12	2768	7	1084	13	1176	8	2008	8	2721	12
	Location Mean	**3701**		**1526**		**2511**		**1569**		**1204**		**2102**		**3091**	
	C.D. (5%)	252		159		655		253		339		332		467	
	C.V. (%)	4.04		6.21		15.51		9.57		16.76		-		-	
	F (Prob)	0		0		0		0		0					
	Plot Size	9.6		9.6		12		9.6		7.2		-		-	
	AGRONOMY DATA														
	Sowing Date	14-07		27-06		18-07		7-07		8-07		-		-	
	Harvest Date	3-11		19-10		2-12		-		25-10		-		-	
	Irrigation Nos	1		-		-		-		-		-		-	
	Ferilizer Applied N	90		150		120		100		120		-		-	
	Ferilizer Applied P	60		80		60		50		60		-		-	
	Ferilizer Applied K	-		-		40		30		-		-		-	

TABLE No. 19 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE VL Amber Popcorn (C)														NWPZ ZN 2	
		ALMO	R	BAJA	R	KANG	R	MEAN	R	LUDH	R	KARN	R	DELH	R	KANP	R	PANT	R	MEAN	R
1	IMHP-1535	27.5		1.2		-		0.3		74.1		-		-		-		13.7		6.3	
2	MPC 1-15	-		-		-		-		78.5		-		18.5		-		14.4		7.6	
3	Pop corn(Jaya Shree)	-		-		2.8		-		-		35.6		-		-		-		-	
4	IHPC-1203	3.1		38.3		-		18.7		162.1		3.9		8.3		-		63.3		32.2	
5	ROBUST 265	3.3		2.2		-		-		-		-		-		-		-		-	
6	IMHP 1540	36.1		15		8.6		19.1		70.9		7.6		16.7		-		15.8		12.2	
7	DPCH-306	23.8		15.7		-		13.3		67.9		-		30.8		-		33.8		16.5	
8	ROBUST 427	-		9.9		-		-		-		7		-		2.2		-		-	
9	AP2202	-		-		-		-		-		-		-		-		-		-	
10	DMRHP-1402	-		57.6		-		24.9		80.5		13.5		25.2		-		50.9		23.5	
11	AP6005	28.2		33.7		-		16.1		4		32.6		1.5		-		2.4		6.8	
12	IHPC-1201	10.2		25.9		-		12.7		106.8		-		39.1		-		41.9		23.8	
13	SJPC1	46.3		-		2.4		8.4		17.4		10.2		16		-		10.4		8.2	
	CHECKS																				
14	VL Amber Popcorn (C)	-		-		-		-		-		-		-		-		-		-	

TABLE No. 19 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE VL Amber Popcorn (C)																				PZ ZN 4	
		NEPZ(ZN 3)																					
		DHOL	R	BHUB	R	RANC	R	BAHR	R	KALY	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	COIM	R	MEAN	R
1	IMHP-1535	-		42.3		23.3		33.7		3.2		4		17.3		10.4		21.1		63.3		-		-		24.3	
2	MPC 1-15	-		28.9		18.3		66.3		-		38.8		17.6		-		13.7		-		-		-		15.9	
3	Pop corn(Jaya Shree)	-		36.8		24.1		39.2		-		-		13.1		4.1		1		11.6		-		-		17.3	
4	IHPC-1203	-		46.7		17.4		118		31.2		65.7		49		44.9		63.2		103.4		-		5.9		52.1	
5	ROBUST 265	-		32.9		-		29.9		3.7		0.8		14		-		-		-		-		-		-	
6	IMHP 1540	-		43.9		0.2		42		22		49.3		26.5		43.9		81.2		30.9		-		-		45.2	
7	DPCH-306	-		31.6		32		63.6		41.5		58.9		35.6		14.6		31.4		55.3		-		-		35.3	
8	ROBUST 427	40.5		49.7		-		27.8		6.2		-		27.3		-		-		-		-		4.1		-	
9	AP2202	-		2.2		-		-		-		-		-		-		-		0.4		-		0.9		24.7	
10	DMRHP-1402	-		44.8		36.7		79.8		10.5		46.6		29.4		38.8		55.4		70.3		-		8.8		30.7	
11	AP6005	-		34.9		-		32.2		13.4		19.9		18.5		-		-		9.1		-		26.3		35.9	
12	IHPC-1201	-		29.8		29.7		55.3		45.5		69.2		35.8		33.5		35.9		56.5		-		22.8		44	
13	SJPC1	1.1		22.2		13.7		32.4		-		15.6		10.6		18.4		43.7		67.4		-		-		27.3	
	CHECKS																										
14	VL Amber Popcorn (C)	-		-		-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 19 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE VL Amber Popcorn (C)										CWZ(ZN 5) MEAN	R	OV'L MEAN	R
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R				
1	IMHP-1535	5.8		-		19		70		-		12.5		12.8	
2	MPC 1-15	-		3.9		-		5.5		-		-		7	
3	Pop corn(Jaya Shree)	5.6		1.7		-		97.1		63.5		9		7.3	
4	IHPC-1203	-		56.6		65.8		74		13.9		30		37.6	
5	ROBUST 265	17.3		5.3		-		56.1		-		-		-	
6	IMHP 1540	13.5		0.9		32.6		117.5		34.5		30.7		26.9	
7	DPCH-306	3.5		12.7		27.2		58.7		2.2		17.1		24.2	
8	ROBUST 427	20.4		11.9		-		31.7		-		-		1.7	
9	AP2202	10.8		-		-		33.3		4.8		-		-	
10	DMRHP-1402	10.4		12.2		26.8		46.7		-		15.5		24.6	
11	AP6005	-		1.7		-		36.5		-		-		11.8	
12	IHPC-1201	-		2.7		40.3		4.4		18.7		13.1		27.3	
13	SJPC1	-		12.3		-		-		33.3		-		11.4	
	CHECKS														
14	VL Amber Popcorn (C)	-		-		-		-		-		-		-	

TABLE No. 19 (Contd.)

Grain Moisture % at the time of popping= 15%

E.No.	Hyb. Name	Popping percent (%)							Vol. before popping (ml/cm3)							Vol. after popping (ml/cm3)							100 kernels weight (gm)						
		ALMO	BAJA	DELH	DHOL	DHAR	UDAI	Av	ALMO	BAJA	DELH	DHOL	DHAR	UDAI	Av	ALMO	BAJA	DELH	DHOL	DHAR	UDAI	AV	ALMO	BAJA	DELH	DHOL	DHAR	UDAI	AV
1	IMHP-1535	84	95	84	87	97	91	**90**	18	16	14	18	23	18	**18**	150	220	200	230	220	200	**203**	14	15	13	12	18	13	**14**
2	MPC 1-15	79	91	90	91	89	88	**88**	10	20	18	15	10	23	**16**	140	200	180	185	175	150	**172**	10	16	13	12	12	16	**13**
3	Pop corn(Jaya Shree)	76	80	85	75	75	90	**80**	15	14	15	12	10	25	**15**	110	130	250	150	160	280	**180**	12	15	13	10	8	18	**12**
4	IHPC-1203	89	99	90	83	87	84	**89**	15	22	22	18	34	30	**24**	200	320	150	150	180	120	**187**	15	19	17	12	27	23	**19**
5	ROBUST 265	94	65	83	80	68	88	**80**	16	13	18	16	11	25	**17**	200	200	300	250	110	210	**212**	14	11	15	12	10	19	**13**
6	IMHP 1540	96	89	85	86	92	90	**90**	22	17	25	16	19	25	**21**	220	220	200	210	220	280	**225**	18	13	12	12	16	19	**15**
7	DPCH-306	90	89	97	90	90	86	**90**	20	28	18	20	20	18	**21**	200	200	280	220	210	220	**222**	11	20	15	14	18	14	**15**
8	ROBUST 427	72	70	82	82	80	93	**80**	15	20	15	15	5	22	**15**	220	220	270	320	240	230	**250**	12	16	13	12	10	17	**13**
9	AP2202	83	95	67	78	92	80	**83**	16	21	12	15	16	35	**19**	230	350	300	280	370	150	**280**	14	17	13	11	14	25	**15**
10	DMRHP-1402	96	92	85	82	98	96	**91**	17	20	20	16	23	22	**20**	230	220	210	180	390	240	**245**	16	16	16	11	21	17	**16**
11	AP6005	91	80	83	90	67	92	**84**	20	11	20	18	10	24	**17**	300	150	300	200	110	230	**215**	16	8	16	13	11	18	**14**
12	IHPC-1201	96	92	96	81	90	93	**91**	18	28	18	18	23	23	**21**	250	180	200	180	183	260	**209**	15	21	14	13	19	17	**16**
13	SJPC1	86	85	80	88	80	93	**85**	18	21	10	16	15	28	**18**	200	150	120	210	173	220	**179**	15	16	11	15	14	20	**15**
14	VL A POP (C)	94	96	92	89	75	86	**89**	18	22	17	20	10	34	**20**	300	200	200	220	125	180	**204**	15	17	13	17	11	24	**16**

TABLE No. 19 (Contd.)

		MOISTURE % AT HARVEST				NHZ						NWPZ						NEPZ
						ZN 1						ZN 2						ZN 3
S.No.	PEDIGREE	ALMO	BAJA	KANG	IMPH	Mean	LUDH	KARN	DELH	KANP	PANT	Mean	DHOL	BHUB	RANC	BAHR	SABO	Mean
1	IMHP-1535	18.2	16.5	34.8	18.0	21.9	14.3	19.3	17.9	15.3	20.3	17.4	21.5	18.8	25.0	23.2	27.0	23.1
2	MPC 1-15	18.4	16.4	35.0	18.4	22.0	14.2	18.4	17.1	16.3	20.8	17.4	22.0	18.6	24.6	22.7	20.4	21.7
3	Pop corn(Jaya Shree)	18.9	17.3	35.4	13.6	21.3	13.6	18.0	15.4	15.7	25.1	17.6	21.0	18.3	25.7	20.3	21.0	21.3
4	IHPC-1203	19.3	17.3	33.8	22.9	23.3	13.4	20.1	19.6	14.0	23.0	18.0	19.0	18.5	25.9	23.4	22.1	21.8
5	ROBUST 265	18.3	17.4	33.3	10.7	19.9	13.0	17.4	13.5	13.7	20.4	15.6	20.0	18.5	25.0	26.1	25.1	22.9
6	IMHP 1540	18.3	16.7	34.3	12.3	20.4	14.5	18.0	15.0	14.7	19.9	16.4	19.0	17.9	24.8	20.1	22.2	20.8
7	DPCH-306	18.7	17.4	34.1	17.7	21.9	14.2	22.0	17.0	14.3	23.7	18.3	21.0	18.4	25.4	20.9	21.3	21.4
8	ROBUST 427	19.2	19.2	36.6	11.6	21.7	14.0	19.0	14.0	16.0	22.7	17.1	22.0	18.5	25.3	20.1	22.0	21.6
9	AP2202	17.5	17.0	35.4	10.3	20.0	12.3	17.0	11.8	17.0	19.0	15.4	20.0	17.6	26.2	23.7	21.5	21.8
10	DMRHP-1402	18.9	19.5	33.9	17.5	22.4	14.3	17.4	17.2	16.3	22.1	17.5	20.5	17.4	25.1	24.2	25.5	22.5
11	AP6005	18.1	17.7	35.2	15.0	21.5	13.2	18.0	14.7	14.7	22.4	16.6	21.5	18.6	25.5	23.8	28.1	23.5
12	IHPC-1201	18.9	17.3	33.1	14.6	21.0	13.1	20.0	17.0	14.7	25.8	18.1	20.5	18.3	26.5	20.3	21.9	21.5
13	SJPC1	19.1	16.2	31.5	12.8	19.9	13.8	19.1	15.4	15.7	24.4	17.7	21.0	18.9	25.9	20.6	23.5	22.0
	CHECKS																	
14	VL Amber Popcorn (C)	18.5	16.2	27.2	12.5	18.6	14.4	21.4	17.5	15.3	23.5	18.4	21.0	18.1	25.1	22.9	22.9	22.0
	Loc. Mean	**18.6**	**17.3**	**33.8**	**14.8**	**21.1**	**13.7**	**18.9**	**15.9**	**15.3**	**22.4**	**17.2**	**20.7**	**18.3**	**25.4**	**22.3**	**23.2**	**22.0**
	C.D. (5%)	1.65	0.56	1.15	3.34	3.00	0.54	0.32	2.06	1.51	4.15	1.76	2.68	-	1.17	2.11	2.96	1.76
	C.V. (%)	5.28	1.94	2.02	13.44	9.93	2.34	1.00	7.71	5.91	11.07	8.04	7.72	-	2.74	5.65	7.62	6.30
	F (Prob)	0.64	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.05	0.02	0.42	0.00	0.08	0.00	0.00	0.15

TABLE No. 19 (Contd.)

		MOISTURE % AT HARVEST					PZ						CWZ	
							ZN 4						ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IMHP-1535	19.7	17.4	18.2	14.9	18.6	17.7	16.3	15.5	12.8	16.5	14.9	15.2	18.9
2	MPC 1-15	18.0	19.2	20.8	14.9	16.8	17.9	16.9	15.3	12.0	15.3	15.1	14.9	18.6
3	Pop corn(Jaya Shree)	19.0	17.9	18.1	15.1	17.3	17.5	16.3	15.5	12.0	17.0	15.8	15.3	18.5
4	IHPC-1203	21.2	16.8	24.7	17.6	16.2	19.3	16.2	15.6	13.5	16.0	15.8	15.4	19.4
5	ROBUST 265	15.5	17.0	17.4	12.3	14.8	15.4	16.0	15.4	11.1	15.5	15.1	14.6	17.6
6	IMHP 1540	17.8	15.7	19.8	16.5	16.3	17.2	16.3	15.5	12.0	16.4	15.2	15.1	17.9
7	DPCH-306	20.2	17.7	17.5	15.4	15.1	17.2	17.5	15.6	11.9	15.8	14.4	15.0	18.6
8	ROBUST 427	18.2	17.5	12.5	12.3	14.2	14.9	17.4	15.8	10.8	16.8	14.4	15.0	17.9
9	AP2202	15.6	17.8	15.7	16.4	13.1	15.7	16.2	15.6	10.5	15.8	15.2	14.7	17.4
10	DMRHP-1402	20.4	16.7	21.1	13.7	18.0	18.0	15.3	15.5	11.6	15.3	15.1	14.6	18.8
11	AP6005	19.3	18.4	15.4	14.9	13.9	16.4	16.2	15.5	11.8	15.7	16.2	15.1	18.5
12	IHPC-1201	19.9	16.4	21.4	14.6	16.0	17.6	16.9	15.4	11.5	16.0	15.2	15.0	18.5
13	SJPC1	16.8	17.7	18.2	14.9	14.7	16.4	18.1	15.3	12.1	15.5	15.0	15.2	18.2
	CHECKS													
14	VL Amber Popcorn (C)	15.1	19.6	16.1	-	15.5	16.6	17.4	15.5	10.8	16.2	14.9	15.0	18.1
	Loc. Mean	**18.3**	**17.5**	**18.3**	**13.8**	**15.7**	**17.0**	**16.6**	**15.5**	**11.7**	**16.0**	**15.2**	**15.0**	**18.4**
	C.D. (5%)	2.29	1.93	3.57	0.92	0.73	2.23	0.51	0.22	1.24	1.98	0.52	0.76	0.89
	C.V. (%)	7.46	6.55	11.62	3.98	2.78	10.35	1.83	0.84	6.27	7.37	2.05	3.99	8.53
	F (Prob)	0.00	0.02	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.83	0.00	0.56	0.00

TABLE No. 19 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING %				NHZ ZN 1 Mean						NWPZ ZN 2 Mean							NEPZ ZN 3 Mean
		ALMO	BAJA	KANG	IMPH		LUDH	KARN	DELH	KANP	PANT		DHOL	BHUB	RANC	BAHR	KALY	SABO	
1	IMHP-1535	85.5	83.0	84.4	2.7	63.9	84.5	81.6	77.0	77.3	82.6	80.6	80.5	80.7	85.2	75.4	77.1	75.5	79.1
2	MPC 1-15	85.5	82.4	84.6	1.3	63.5	85.0	79.9	78.0	75.0	83.8	80.3	77.0	80.9	86.3	78.6	79.7	81.4	80.7
3	Pop corn(Jaya Shree)	83.4	80.1	82.2	0.4	61.5	80.0	81.3	75.0	76.0	79.9	78.4	81.0	81.8	81.0	73.0	83.5	75.4	79.3
4	IHPC-1203	82.4	82.6	81.6	2.1	62.2	81.0	79.6	70.0	76.7	79.7	77.4	80.0	79.6	82.5	79.6	87.5	71.5	80.1
5	ROBUST 265	84.9	81.9	83.6	0.7	62.8	82.2	79.7	78.7	76.3	80.9	79.6	79.5	78.3	84.6	71.1	83.0	75.3	78.6
6	IMHP 1540	87.3	86.6	86.2	3.3	65.9	87.5	80.5	81.3	77.7	84.7	82.3	78.5	78.8	86.8	70.2	77.0	79.6	78.5
7	DPCH-306	83.5	80.1	81.5	2.6	61.9	81.6	81.1	73.7	75.0	82.6	78.8	78.5	78.1	81.4	74.7	83.0	81.9	79.6
8	ROBUST 427	85.6	84.5	81.5	0.7	63.1	80.8	80.8	80.0	75.3	80.2	79.4	83.0	77.6	81.4	71.3	87.2	78.6	79.9
9	AP2202	83.1	77.9	80.0	1.0	60.5	79.3	77.9	75.0	73.7	76.5	76.5	81.0	81.0	81.8	69.5	82.7	69.8	77.6
10	DMRHP-1402	84.4	82.8	83.9	2.7	63.5	82.0	79.2	76.0	73.7	82.3	78.6	76.0	79.4	81.6	79.8	70.3	77.7	77.5
11	AP6005	84.6	81.8	79.4	1.9	61.9	82.3	79.5	75.7	74.7	84.7	79.4	78.5	79.6	84.6	75.8	77.4	76.1	78.7
12	IHPC-1201	84.2	82.1	81.8	2.8	62.7	82.2	80.2	76.0	74.7	80.3	78.7	80.0	79.0	85.7	74.4	79.0	78.0	79.3
13	SJPC1	88.0	81.7	81.7	3.3	63.7	87.3	79.6	84.0	75.3	84.5	82.1	77.5	80.6	86.5	73.9	79.1	79.7	79.5
	CHECKS																		
14	VL Amber Popcorn (C)	86.1	81.5	82.5	1.9	63.0	80.2	80.5	73.0	75.3	83.5	78.5	79.5	80.7	84.5	71.6	81.4	80.4	79.7
	Loc. Mean	**84.9**	**82.1**	**82.5**	**2.0**	**62.8**	**82.6**	**80.1**	**76.7**	**75.5**	**81.9**	**79.3**	**79.3**	**79.7**	**83.8**	**74.2**	**80.6**	**77.2**	**79.1**
	C.D. (5%)	1.66	-	1.86	0.31	1.77	3.71	0.32	4.04	1.36	4.10	2.41	1.85	-	4.23	1.47	7.54	5.26	3.61
	C.V. (%)	1.16	-	1.34	9.43	1.97	2.68	0.24	3.14	1.07	2.98	2.39	1.39	-	3.00	1.18	5.57	4.06	3.95
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	-	0.04	0.00	0.01	0.00	0.92

TABLE No. 19 (Contd.)

		GRAIN SHELLING %					PZ						CWZ	
							ZN 4						ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IMHP-1535	84.8	83.5	86.8	78.8	82.6	83.3	78.4	64.2	87.7	79.4	83.7	78.7	77.7
2	MPC 1-15	83.0	81.7	87.1	78.3	84.3	82.9	78.3	60.4	87.2	76.8	87.5	78.0	77.8
3	Pop corn(Jaya Shree)	83.0	79.0	84.0	78.1	82.7	81.4	80.2	59.5	82.2	80.7	85.6	77.6	76.4
4	IHPC-1203	75.2	77.8	83.8	77.5	77.4	78.3	79.3	67.6	89.2	78.5	81.1	79.1	76.1
5	ROBUST 265	89.2	83.4	85.3	77.1	84.4	83.9	80.4	63.3	82.7	77.8	83.6	77.5	77.1
6	IMHP 1540	89.5	85.8	86.4	81.0	82.9	85.1	79.7	58.1	84.7	79.4	85.8	77.5	78.4
7	DPCH-306	82.3	82.3	84.6	77.1	83.4	81.9	80.8	62.2	82.9	78.2	83.1	77.4	76.6
8	ROBUST 427	84.9	79.2	81.0	78.4	80.6	80.8	79.5	64.6	86.7	79.3	85.3	79.1	77.1
9	AP2202	84.4	80.9	82.5	78.8	79.5	81.2	79.3	63.9	80.0	77.7	77.2	75.6	75.0
10	DMRHP-1402	85.9	80.8	85.7	79.1	80.6	82.4	80.3	64.7	83.4	76.7	81.6	77.3	76.4
11	AP6005	82.1	81.8	83.0	78.6	84.3	82.0	80.5	63.0	82.4	78.1	86.5	78.1	76.7
12	IHPC-1201	81.5	81.7	84.4	80.0	81.3	81.8	79.3	61.5	85.8	78.5	86.6	78.3	76.8
13	SJPC1	80.2	87.1	89.3	79.2	82.0	83.6	79.2	63.6	73.3	77.5	84.1	75.5	77.5
	CHECKS													
14	VL Amber Popcorn (C)	83.9	82.3	85.1	-	80.5	82.9	80.2	60.0	79.4	77.4	81.9	75.8	76.4
	Loc. Mean	**83.6**	**81.9**	**84.9**	**73.0**	**81.9**	**82.2**	**79.6**	**62.6**	**83.4**	**78.3**	**83.8**	**77.5**	**76.9**
	C.D. (5%)	5.44	2.69	1.44	1.23	0.74	2.62	0.48	2.75	3.26	3.34	5.47	3.19	1.33
	C.V. (%)	3.88	1.95	1.01	1.00	0.54	2.51	0.36	2.62	2.33	2.55	3.89	3.25	3.10
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.05	0.37	0.00

TABLE No. 19 (Contd.)

		STAND AT HARVEST ('000/ha)				NHZ						NWPZ							NEPZ
						ZN 1						ZN 2							ZN 3
S.No.	PEDIGREE	ALMO	BAJA	KANG	IMPH	Mean	LUDH	KARN	DELH	KANP	PANT	Mean	DHOL	BHUB	RANC	BAHR	KALY	SABO	Mean
1	IMHP-1535	56.9	53.7	74.3	75.5	65.1	66.3	80.2	62.2	76.4	63.3	69.7	58.6	63.9	51.2	59.7	78.8	54.2	61.1
2	MPC 1-15	66.2	56.0	75.7	74.5	68.1	71.2	78.8	59.4	78.1	60.4	69.6	55.6	62.2	69.9	59.4	68.8	58.7	62.4
3	Pop corn(Jaya Shree)	61.1	62.0	77.8	70.4	67.8	47.6	79.9	61.7	75.7	60.0	65.0	57.5	61.5	57.4	65.6	82.6	68.1	65.5
4	IHPC-1203	61.1	49.1	72.9	73.1	64.1	79.5	78.5	58.6	76.7	64.4	71.6	54.7	62.5	69.6	65.3	77.1	62.2	65.2
5	ROBUST 265	56.0	53.2	74.3	71.3	63.7	52.4	78.8	64.4	78.5	64.1	67.6	53.3	60.4	62.2	63.5	84.7	75.7	66.7
6	IMHP 1540	55.1	54.2	74.3	71.3	63.7	77.1	79.2	55.3	76.4	64.8	70.5	55.3	60.4	55.4	58.7	81.6	66.3	62.9
7	DPCH-306	59.7	60.6	76.4	74.1	67.7	73.6	79.2	59.2	80.6	64.4	71.4	54.7	62.5	57.7	64.6	78.5	54.9	62.1
8	ROBUST 427	56.9	52.3	80.6	67.1	64.2	53.8	78.5	56.4	77.8	61.1	65.5	56.9	63.2	56.5	57.6	80.6	50.3	60.9
9	AP2202	56.0	53.2	72.2	71.8	63.3	52.1	79.5	63.6	77.4	59.6	66.5	58.3	62.5	51.8	59.4	83.3	63.9	63.2
10	DMRHP-1402	53.2	66.7	80.6	69.9	67.6	71.2	79.5	64.2	77.8	65.2	71.6	56.1	62.8	70.5	61.8	84.0	61.8	66.2
11	AP6005	62.5	55.6	73.6	69.4	65.3	64.9	79.5	63.1	76.0	61.5	69.0	56.1	61.5	46.1	64.6	84.4	57.6	61.7
12	IHPC-1201	60.6	56.0	82.6	73.1	68.1	74.7	78.5	64.2	79.2	65.6	72.4	56.9	62.5	67.9	64.6	85.1	67.0	67.3
13	SJPC1	57.9	57.4	81.3	75.0	67.9	63.5	78.1	63.6	77.1	63.0	69.1	54.2	63.5	56.8	61.1	79.9	55.6	61.8
	CHECKS																		
14	VL Amber Popcorn (C)	55.1	60.2	76.4	65.3	64.2	63.2	78.5	63.6	77.8	61.5	68.9	55.0	61.5	60.4	61.8	80.9	51.7	61.9
	Loc. Mean	**58.5**	**56.4**	**76.6**	**71.6**	**65.8**	**65.1**	**79.0**	**61.4**	**77.5**	**62.8**	**69.2**	**56.0**	**62.2**	**59.5**	**62.0**	**80.7**	**60.6**	**63.5**
	C.D. (5%)	5.87	5.24	3.62	5.82	5.14	9.38	2.31	4.07	2.72	2.85	6.13	6.36	3.48	14.36	3.62	7.24	17.49	5.40
	C.V. (%)	5.98	5.53	2.81	4.85	5.46	8.59	1.74	3.95	2.09	2.71	6.99	6.77	3.33	14.37	3.48	5.35	17.21	7.38
	F (Prob)	0.01	0.00	0.00	0.04	0.33	0.00	0.83	0.00	0.07	0.00	0.34	0.90	0.68	0.03	0.00	0.01	0.22	0.22

TABLE No. 19 (Contd.)

		STAND AT HARVEST ('000/ha)					PZ						CWZ	
							ZN 4						ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IMHP-1535	53.9	53.9	53.5	63.9	66.7	58.4	56.6	62.5	55.8	62.8	37.5	55.1	61.7
2	MPC 1-15	54.2	53.3	43.4	67.7	66.0	56.9	57.3	60.4	61.1	51.4	56.5	57.3	62.6
3	Pop corn(Jaya Shree)	52.2	50.6	60.1	69.1	66.3	59.7	56.6	61.1	61.7	61.8	63.9	61.0	63.7
4	IHPC-1203	53.9	50.6	65.3	70.1	66.0	61.2	62.8	66.7	65.3	59.7	42.6	59.4	64.3
5	ROBUST 265	56.4	51.1	52.8	67.7	66.0	58.8	60.1	62.5	54.7	53.1	53.7	56.8	62.8
6	IMHP 1540	62.5	57.2	62.2	68.4	66.3	63.3	62.8	59.4	65.3	70.8	47.2	61.1	64.3
7	DPCH-306	56.1	53.6	62.2	68.8	66.0	61.3	62.2	62.5	61.1	55.9	50.5	58.4	64.0
8	ROBUST 427	51.7	48.9	52.8	68.8	66.7	57.8	62.5	63.5	59.2	49.7	36.6	54.3	60.4
9	AP2202	51.9	49.4	58.3	73.3	66.3	59.9	55.2	64.2	43.3	48.6	49.1	52.1	61.0
10	DMRHP-1402	52.8	53.9	63.2	66.3	65.6	60.4	59.7	64.2	60.8	52.1	45.8	56.5	64.4
11	AP6005	57.2	52.5	67.0	70.1	66.0	62.6	58.7	63.2	61.7	51.0	31.9	53.3	62.2
12	IHPC-1201	56.9	51.9	57.3	72.6	66.3	61.0	55.9	62.5	61.4	45.5	42.6	53.6	64.5
13	SJPC1	60.0	54.7	67.4	68.8	66.3	63.4	57.6	61.1	58.1	43.8	58.8	55.9	63.4
	CHECKS													
14	VL Amber Popcorn (C)	54.2	48.6	59.7	-	66.0	57.1	54.9	61.5	63.1	45.8	44.0	53.8	61.3
	Loc. Mean	**55.3**	**52.2**	**58.9**	**64.0**	**66.2**	**60.1**	**58.8**	**62.5**	**59.5**	**53.7**	**47.2**	**56.3**	**62.9**
	C.D. (5%)	4.60	4.63	14.49	6.33	1.14	4.56	3.07	4.52	12.86	5.93	7.28	7.55	2.58
	C.V. (%)	4.96	5.29	14.65	5.89	1.02	5.98	3.12	4.31	12.88	6.57	9.19	10.56	7.38
	F (Prob)	0.00	0.03	0.11	0.00	0.85	0.07	0.00	0.23	0.16	0.00	0.00	0.33	0.01

TABLE No. 19 (Contd.)

		DAYS TO 50% POLLEN SHED				NHZ						NWPZ						NEPZ
						ZN 1						ZN 2						ZN 3
S.No.	PEDIGREE	ALMO	BAJA	KANG	IMPH	Mean	LUDH	KARN	DELH	KANP	PANT	Mean	DHOL	BHUB	RANC	BAHR	KALY	SABO	Mean
1	IMHP-1535	58.0	56.0	50.0	50.7	53.7	47.0	48.0	45.3	45.3	52.0	47.5	52.3	47.0	51.3	50.3	50.3	48.0	49.9
2	MPC 1-15	58.7	53.7	48.7	49.3	52.6	47.7	44.0	45.3	46.7	51.7	47.1	53.3	47.0	51.0	46.3	49.3	47.0	49.0
3	Pop corn(Jaya Shree)	53.7	51.0	48.3	49.0	50.5	48.3	44.3	45.3	45.3	50.7	46.8	52.0	46.0	49.3	48.3	48.7	47.0	48.6
4	IHPC-1203	56.0	56.7	47.3	49.3	52.3	46.3	48.0	45.7	44.7	50.0	46.9	51.7	44.0	49.0	45.7	49.7	46.3	47.7
5	ROBUST 265	55.0	53.7	45.3	48.3	50.6	48.3	48.0	45.0	46.0	49.7	47.4	55.0	47.0	49.7	47.3	49.7	46.3	49.2
6	IMHP 1540	54.7	55.7	45.7	47.0	50.8	47.7	43.7	43.3	47.7	48.7	46.2	52.3	44.0	50.7	41.7	48.7	46.0	47.2
7	DPCH-306	55.7	54.3	47.3	48.3	51.4	46.3	47.3	44.3	47.7	51.0	47.3	52.3	45.0	49.7	42.7	48.7	46.0	47.4
8	ROBUST 427	56.0	55.3	48.3	51.3	52.8	49.0	47.7	46.3	45.3	51.3	47.9	55.3	48.0	51.0	49.7	50.3	47.3	50.3
9	AP2202	58.7	54.7	46.0	49.7	52.3	49.3	48.0	45.0	46.0	50.7	47.8	54.3	48.0	50.7	50.3	48.3	46.7	49.7
10	DMRHP-1402	59.3	56.0	46.3	52.0	53.4	49.3	45.3	46.0	47.7	50.7	47.8	56.3	48.0	51.3	48.7	47.7	48.7	50.1
11	AP6005	58.7	57.0	52.0	54.0	55.4	53.0	49.0	50.3	45.3	52.7	50.1	56.7	47.0	55.3	51.3	48.7	49.0	51.3
12	IHPC-1201	55.7	55.3	45.7	49.0	51.4	46.7	44.0	45.7	45.0	48.0	45.9	53.3	44.0	49.3	45.7	48.7	46.3	47.9
13	SJPC1	54.3	55.7	45.0	49.7	51.2	49.0	46.0	44.0	46.0	48.3	46.7	54.3	45.0	49.3	47.7	48.7	46.0	48.5
	CHECKS																		
14	VL Amber Popcorn (C)	55.7	54.0	49.3	49.0	52.0	48.3	50.7	46.0	45.0	50.3	48.1	55.0	45.0	51.0	45.0	49.7	46.7	48.7
	Loc. Mean	**56.4**	**54.9**	**47.5**	**49.8**	**52.2**	**48.3**	**46.7**	**45.5**	**46.0**	**50.4**	**47.4**	**53.9**	**46.1**	**50.6**	**47.2**	**49.1**	**47.0**	**49.0**
	C.D. (5%)	1.15	2.28	1.61	1.03	1.95	2.69	0.77	1.74	1.20	2.01	1.81	3.22	1.71	0.90	1.96	1.43	1.60	1.53
	C.V. (%)	1.22	2.48	2.02	1.24	2.62	3.31	0.98	2.28	1.56	2.37	3.00	3.56	2.21	1.06	2.48	1.74	2.03	2.71
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.00	0.02	0.01	0.00

TABLE No. 19 (Contd.)

		DAYS TO 50% POLLEN SHED					PZ						CWZ	
							ZN 4						ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IMHP-1535	54.7	55.7	57.0	47.0	44.7	51.8	54.7	51.3	56.7	47.7	51.0	52.3	50.9
2	MPC 1-15	54.0	54.0	56.7	50.0	45.3	52.0	52.3	51.7	58.3	47.7	50.3	52.1	50.4
3	Pop corn(Jaya Shree)	52.0	53.7	53.7	50.3	45.3	51.0	56.0	50.0	57.3	46.3	48.7	51.7	49.6
4	IHPC-1203	52.3	54.7	57.3	49.3	44.7	51.7	54.3	51.7	56.0	48.3	50.0	52.1	50.0
5	ROBUST 265	51.7	54.0	53.0	48.0	44.3	50.2	57.3	50.7	57.7	46.7	50.0	52.5	49.9
6	IMHP 1540	51.7	53.7	53.3	48.0	44.0	50.1	56.3	51.3	54.0	44.7	50.0	51.3	49.0
7	DPCH-306	52.7	51.7	55.3	48.0	46.0	50.7	58.7	50.7	56.0	47.3	48.0	52.1	49.6
8	ROBUST 427	53.7	55.7	55.3	49.7	45.3	51.9	57.0	50.0	59.0	47.3	51.0	52.9	51.1
9	AP2202	54.7	57.0	56.7	50.3	45.3	52.8	58.0	50.7	59.3	47.7	50.7	53.3	51.1
10	DMRHP-1402	55.0	55.3	56.7	51.7	46.3	53.0	59.7	50.7	59.7	47.7	51.0	53.7	51.5
11	AP6005	55.3	57.7	56.7	48.0	48.7	53.3	58.3	50.7	60.7	49.7	50.0	53.9	52.6
12	IHPC-1201	52.0	54.3	56.3	49.0	43.7	51.1	57.3	50.7	56.3	46.7	50.0	52.2	49.5
13	SJPC1	52.7	53.7	53.7	50.0	43.7	50.7	56.7	51.7	53.3	47.7	48.7	51.6	49.6
	CHECKS													
14	VL Amber Popcorn (C)	52.7	56.0	56.3	-	44.7	52.4	58.7	50.3	55.7	45.3	50.3	52.1	50.4
	Loc. Mean	**53.2**	**54.8**	**55.6**	**45.7**	**45.1**	**51.6**	**56.8**	**50.9**	**57.1**	**47.2**	**50.0**	**52.4**	**50.4**
	C.D. (5%)	1.73	1.16	1.96	1.43	1.12	1.46	1.26	1.94	1.73	0.48	0.99	1.81	0.73
	C.V. (%)	1.94	1.26	2.10	1.87	1.48	2.23	1.32	2.27	1.81	0.61	1.18	2.73	2.60
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.16	0.00

TABLE No. 19 (Contd.)

		DAYS TO 50% SILKING				NHZ						NWPZ						NEPZ
						ZN 1						ZN 2						ZN 3
S.No.	PEDIGREE	ALMO	BAJA	KANG	IMPH	Mean	LUDH	KARN	DELH	KANP	PANT	Mean	DHOL	BHUB	RANC	BAHR	KALY	SABO	Mean
1	IMHP-1535	60.0	58.0	54.7	56.7	57.3	48.3	50.0	48.3	48.3	55.3	50.1	54.7	50.3	55.3	52.3	53.0	54.7	53.4
2	MPC 1-15	60.3	55.7	53.7	55.7	56.3	49.3	47.0	48.3	50.0	55.3	50.0	56.0	50.0	57.0	48.3	52.0	53.0	52.7
3	Pop corn(Jaya Shree)	55.3	53.3	53.0	53.3	53.8	50.7	47.3	48.7	49.0	54.0	49.9	55.0	49.0	54.0	50.3	51.7	53.7	52.3
4	IHPC-1203	57.7	58.7	51.7	55.3	55.8	48.0	51.0	49.0	47.7	53.3	49.8	53.7	47.0	54.0	47.7	52.3	53.0	51.3
5	ROBUST 265	55.7	55.7	50.0	53.3	53.7	50.7	51.0	48.3	49.3	53.0	50.5	59.3	50.0	54.0	49.0	52.7	52.7	52.9
6	IMHP 1540	56.3	57.7	50.0	50.7	53.7	49.0	46.7	46.7	50.7	52.0	49.0	54.7	47.0	54.7	43.7	51.7	52.3	50.7
7	DPCH-306	57.7	56.3	52.0	53.7	54.9	48.0	49.3	48.3	51.3	54.7	50.3	55.3	48.0	55.0	44.7	51.3	52.3	51.1
8	ROBUST 427	58.3	57.3	51.7	54.3	55.4	51.0	49.7	49.0	48.3	54.7	50.5	58.7	51.0	57.7	51.7	52.7	55.0	54.4
9	AP2202	60.0	56.7	50.3	54.3	55.3	51.3	50.0	48.3	49.3	55.0	50.8	58.0	51.3	54.7	52.3	50.7	54.3	53.6
10	DMRHP-1402	61.7	58.0	51.0	56.0	56.7	51.3	47.3	50.0	50.3	54.3	50.7	58.7	51.0	55.3	50.7	50.7	55.7	53.7
11	AP6005	59.7	59.0	56.3	56.3	57.8	55.0	51.0	53.0	48.7	56.0	52.7	60.0	50.3	59.3	53.3	51.3	55.0	54.9
12	IHPC-1201	59.0	57.3	49.7	53.7	54.9	48.0	46.0	49.0	47.7	51.7	48.5	56.7	47.0	54.0	47.7	51.7	51.7	51.4
13	SJPC1	55.7	57.7	48.7	53.3	53.8	50.7	48.0	47.0	50.0	52.0	49.5	58.0	47.3	54.3	49.7	51.7	51.0	52.0
	CHECKS																		
14	VL Amber Popcorn (C)	58.0	56.0	53.3	53.3	55.2	50.0	52.7	49.3	47.7	53.3	50.6	58.0	48.0	57.0	47.0	52.3	54.0	52.7
	Loc. Mean	**58.2**	**57.0**	**51.9**	**54.3**	**55.3**	**50.1**	**49.1**	**48.8**	**49.2**	**53.9**	**50.2**	**56.9**	**49.1**	**55.5**	**49.2**	**51.8**	**53.5**	**52.7**
	C.D. (5%)	1.41	2.38	1.43	1.09	2.00	2.99	0.77	1.83	1.19	2.11	1.83	3.51	1.83	1.25	1.95	1.51	3.23	1.68
	C.V. (%)	1.44	2.49	1.65	1.20	2.53	3.56	0.93	2.24	1.44	2.33	2.88	3.68	2.22	1.34	2.37	1.73	3.60	2.77
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.08	0.16	0.00

TABLE No. 19 (Contd.)

		DAYS TO 50% SILKING					PZ						CWZ	
							ZN 4						ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IMHP-1535	56.3	57.7	57.0	49.0	49.0	53.8	57.3	54.3	58.7	50.7	53.0	54.8	53.7
2	MPC 1-15	55.7	56.3	57.3	53.7	48.3	54.3	54.7	54.7	59.7	49.7	52.3	54.2	53.4
3	Pop corn(Jaya Shree)	54.0	55.7	53.7	51.7	48.3	52.7	57.3	53.0	58.3	48.3	50.3	53.5	52.4
4	IHPC-1203	54.3	57.0	58.3	52.7	48.7	54.2	57.3	54.7	57.7	51.0	53.0	54.7	53.0
5	ROBUST 265	53.3	56.0	52.3	50.0	47.3	51.8	58.7	53.7	58.7	49.0	53.3	54.7	52.7
6	IMHP 1540	53.7	55.7	53.7	50.0	46.7	51.9	57.3	54.3	54.7	47.0	51.0	52.9	51.5
7	DPCH-306	54.7	54.3	56.3	50.7	49.0	53.0	60.3	53.7	57.7	49.7	50.0	54.3	52.6
8	ROBUST 427	55.7	57.7	56.7	51.7	48.3	54.0	60.0	53.0	59.7	49.7	53.0	55.1	53.9
9	AP2202	56.3	58.0	57.3	53.0	48.3	54.6	60.0	53.7	60.0	50.0	53.0	55.3	53.9
10	DMRHP-1402	57.0	57.7	57.3	53.3	49.3	54.9	62.0	53.7	60.0	50.3	53.7	55.9	54.3
11	AP6005	57.3	59.0	57.3	50.7	51.7	55.2	59.3	53.7	61.7	51.7	51.0	55.5	55.1
12	IHPC-1201	54.0	56.3	56.7	51.7	46.7	53.1	59.7	53.7	58.3	49.7	51.7	54.6	52.4
13	SJPC1	54.0	56.0	53.7	53.7	46.3	52.7	59.0	54.7	53.7	49.7	50.7	53.5	52.3
	CHECKS													
14	VL Amber Popcorn (C)	54.7	58.0	57.7	-	48.3	54.7	61.3	53.3	56.7	47.7	52.3	54.3	53.3
	Loc. Mean	**55.1**	**56.8**	**56.1**	**48.0**	**48.3**	**53.6**	**58.9**	**53.9**	**58.2**	**49.6**	**52.0**	**54.5**	**53.2**
	C.D. (5%)	1.62	1.19	2.32	2.67	0.96	1.48	1.34	1.94	1.70	0.96	1.33	1.82	0.78
	C.V. (%)	1.75	1.24	2.47	3.31	1.19	2.18	1.36	2.14	1.73	1.16	1.52	2.63	2.63
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.09	0.00

TABLE No. 19 (Contd.)

		DAYS TO 75% DRY HUSK				NHZ						NWPZ						NEPZ
						ZN 1						ZN 2						ZN 3
S.No.	PEDIGREE	ALMO	BAJA	KANG	IMPH	Mean	LUDH	KARN	DELH	KANP	PANT	Mean	DHOL	BHUB	RANC	BAHR	KALY	SABO	Mean
1	IMHP-1535	95.7	94.0	89.3	89.7	92.2	81.3	81.3	89.3	84.7	104.3	88.2	82.3	87.0	90.7	85.7	100.3	89.3	89.2
2	MPC 1-15	94.7	95.3	88.7	87.3	91.5	81.3	81.3	94.0	85.7	104.0	89.3	84.3	87.0	91.0	88.3	97.7	87.3	89.3
3	Pop corn(Jaya Shree)	91.7	87.3	87.7	86.0	88.2	78.3	77.7	89.0	86.7	99.0	86.1	82.3	83.3	90.3	82.3	93.0	87.3	86.4
4	IHPC-1203	93.3	91.7	86.3	89.7	90.3	81.3	82.0	91.7	87.7	104.0	89.3	84.0	85.0	90.0	86.3	99.7	87.3	88.7
5	ROBUST 265	92.0	96.7	84.7	85.7	89.7	79.3	80.3	88.3	86.0	102.3	87.3	87.0	87.0	86.3	83.3	95.0	88.0	87.8
6	IMHP 1540	93.0	95.7	84.7	84.0	89.3	81.0	82.3	90.3	86.3	101.3	88.3	87.0	81.0	85.3	81.3	94.0	84.3	85.5
7	DPCH-306	95.0	93.7	86.7	87.0	90.6	80.7	78.0	90.0	84.3	102.3	87.1	83.3	85.0	89.0	78.3	91.7	86.0	85.6
8	ROBUST 427	93.3	99.0	86.3	84.0	90.7	79.3	83.7	87.7	86.0	102.7	87.9	84.3	92.0	91.3	82.3	100.7	88.7	89.9
9	AP2202	93.3	90.0	85.0	84.3	88.2	80.0	74.3	89.7	88.3	102.3	86.9	86.0	86.0	90.0	84.3	94.3	86.7	87.9
10	DMRHP-1402	95.3	96.7	85.7	90.0	91.9	81.7	79.7	91.3	86.0	104.0	88.5	87.7	93.0	91.3	84.3	101.3	90.0	91.3
11	AP6005	93.7	96.7	91.0	88.0	92.3	81.0	80.3	91.7	87.7	99.0	87.9	86.7	85.0	92.0	85.3	93.3	90.3	88.8
12	IHPC-1201	94.3	96.3	84.3	89.0	91.0	81.0	77.3	93.0	88.7	101.3	88.3	85.7	84.0	82.7	80.3	100.3	86.0	86.5
13	SJPC1	93.7	91.0	83.3	89.0	89.3	81.7	78.0	88.0	85.0	99.0	86.3	86.0	82.0	83.7	84.3	92.0	86.0	85.7
	CHECKS																		
14	VL Amber Popcorn (C)	95.3	93.3	88.0	88.0	91.2	81.7	84.7	97.0	86.3	100.7	90.1	86.7	84.0	91.7	80.3	98.7	88.0	88.2
	Loc. Mean	**93.9**	**94.1**	**86.5**	**87.3**	**90.4**	**80.7**	**80.1**	**90.8**	**86.4**	**101.9**	**88.0**	**85.2**	**85.8**	**89.0**	**83.4**	**96.6**	**87.5**	**87.9**
	C.D. (5%)	1.92	1.66	1.47	0.58	3.03	1.23	1.18	3.36	1.09	3.25	2.41	3.86	1.78	1.20	1.04	4.38	2.44	2.74
	C.V. (%)	1.22	1.05	1.01	0.40	2.35	0.91	0.87	2.21	0.75	1.90	2.16	2.70	1.24	0.81	0.74	2.70	1.66	2.70
	F (Prob)	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.01	0.07	0.10	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 19 (Contd.)

		DAYS TO 75% DRY HUSK				PZ						CWZ	
						ZN 4						ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IMHP-1535	89.3	85.7	90.3	90.3	88.9	88.7	80.7	88.7	80.0	80.3	83.7	88.3
2	MPC 1-15	87.3	84.3	90.0	89.3	87.8	88.3	81.7	89.0	80.0	81.3	84.1	88.3
3	Pop corn(Jaya Shree)	88.3	83.7	91.3	89.3	88.2	82.7	80.0	84.3	79.7	76.7	80.7	85.8
4	IHPC-1203	90.0	85.0	90.0	89.7	88.7	91.3	81.3	88.3	78.7	80.0	83.9	88.1
5	ROBUST 265	86.3	84.0	90.0	87.7	87.0	91.0	80.0	83.0	79.7	81.0	82.9	86.9
6	IMHP 1540	85.7	83.7	91.7	87.7	87.2	88.7	81.0	86.3	78.3	79.3	82.7	86.4
7	DPCH-306	86.0	82.3	91.3	90.0	87.4	94.7	80.7	89.0	80.0	79.3	84.7	86.8
8	ROBUST 427	85.0	85.7	89.7	89.0	87.3	94.3	81.7	87.3	80.0	80.7	84.8	88.1
9	AP2202	83.3	86.0	91.7	89.3	87.6	89.3	80.7	83.3	79.3	78.0	82.1	86.5
10	DMRHP-1402	89.0	85.7	92.7	89.7	89.2	92.7	81.3	90.7	80.3	80.7	85.1	89.2
11	AP6005	87.7	87.0	88.7	92.3	88.9	91.7	80.0	84.0	79.0	80.3	83.0	88.0
12	IHPC-1201	88.0	84.3	92.0	88.3	88.2	91.0	81.0	89.0	79.0	78.3	83.7	87.3
13	SJPC1	84.7	84.0	91.3	86.3	86.6	89.3	81.7	88.3	79.3	78.0	83.3	86.1
	CHECKS												
14	VL Amber Popcorn (C)	83.7	86.0	-	88.7	86.1	92.0	80.7	89.0	79.0	79.3	84.0	87.9
	Loc. Mean	**86.7**	**84.8**	**84.3**	**89.1**	**87.8**	**90.4**	**80.9**	**87.2**	**79.5**	**79.5**	**83.5**	**87.4**
	C.D. (5%)	2.23	1.19	2.98	1.12	2.23	9.15	2.07	1.51	1.23	3.23	2.10	1.14
	C.V. (%)	1.53	0.83	2.11	0.75	1.78	6.03	1.53	1.03	0.92	2.42	1.99	2.29
	F (Prob)	0.00	0.00	0.00	0.00	0.18	0.56	0.72	0.00	0.07	0.19	0.01	0.00

TABLE No. 19 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) ALMO	BAJA	KANG	IMPH	NHZ ZN 1 Mean	LUDH	KARN	DELH	KANP	PANT	NWPZ ZN 2 Mean	DHOL	BHUB	RANC	BAHR	KALY	SABO	NEPZ ZN 3 Mean
1	IMHP-1535	180.0	193.3	142.3	206.8	180.6	155.0	142.0	183.5	168.7	202.7	170.4	108.3	140.3	160.3	143.0	187.1	147.3	147.7
2	MPC 1-15	170.0	175.0	158.7	159.3	165.7	141.7	151.3	176.9	163.7	193.7	165.4	103.3	146.0	163.2	136.6	173.8	119.0	140.3
3	Pop corn(Jaya Shree)	173.3	165.0	162.7	169.3	167.6	120.0	122.3	163.0	169.0	181.3	151.1	96.7	137.7	167.4	132.4	193.6	118.7	141.1
4	IHPC-1203	195.0	203.3	197.3	205.8	200.4	175.0	160.7	213.1	172.0	232.0	190.5	115.0	145.0	162.0	164.6	206.2	162.7	159.3
5	ROBUST 265	181.7	190.0	176.7	212.3	190.2	135.0	140.0	194.5	172.7	197.7	168.0	101.7	144.7	170.3	137.4	186.7	125.0	144.3
6	IMHP 1540	180.0	196.7	175.0	189.6	185.3	126.7	161.0	199.3	168.0	202.7	171.5	98.3	149.0	168.0	134.3	167.9	134.3	142.0
7	DPCH-306	175.0	196.7	179.0	196.9	186.9	133.3	158.3	177.9	175.3	203.0	169.6	100.0	142.0	171.0	138.6	181.4	128.3	143.6
8	ROBUST 427	181.7	191.7	217.7	175.6	191.7	130.0	131.0	173.7	167.0	193.0	158.9	98.3	141.7	159.1	128.1	187.1	121.0	139.2
9	AP2202	181.7	190.0	164.3	177.3	178.3	136.7	131.3	159.1	168.3	188.3	156.7	101.7	138.3	171.3	127.6	195.9	123.0	143.0
10	DMRHP-1402	196.7	228.3	222.3	218.9	216.6	151.7	162.3	219.8	164.7	236.0	186.9	136.7	143.3	164.5	166.9	172.7	165.0	158.2
11	AP6005	185.0	208.3	151.3	213.1	189.4	136.7	109.0	189.2	179.0	204.3	163.6	103.3	145.0	162.1	157.3	205.3	149.0	153.7
12	IHPC-1201	183.3	211.7	198.3	217.3	202.7	151.7	159.0	200.3	175.7	223.0	181.9	96.7	141.3	179.9	144.1	242.7	148.0	158.8
13	SJPC1	195.0	203.3	184.3	186.9	192.4	121.7	145.0	183.0	163.3	172.0	157.0	102.7	140.7	161.1	143.1	180.9	145.0	145.6
	CHECKS																		
14	VL Amber Popcorn (C)	170.0	190.0	165.7	181.1	176.7	128.3	131.0	173.9	174.0	197.7	161.0	91.0	141.7	171.7	127.7	210.3	116.7	143.2
	Loc. Mean	**182.0**	**196.0**	**178.3**	**193.6**	**187.5**	**138.8**	**143.2**	**186.2**	**170.1**	**202.0**	**168.0**	**103.8**	**142.6**	**166.6**	**141.6**	**192.3**	**135.9**	**147.1**
	C.D. (5%)	11.73	16.97	6.20	18.42	18.54	26.12	4.47	10.72	8.89	31.94	13.92	20.68	4.29	12.44	2.32	18.63	18.41	13.41
	C.V. (%)	3.84	5.16	2.07	5.67	6.92	11.21	1.86	3.43	3.11	9.42	6.53	11.86	1.79	4.45	0.98	5.77	8.07	7.90
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.02	0.00	0.03	0.00	0.08	0.00	0.00	0.00	0.01

TABLE No. 19 (Contd.)

		PLANT HEIGHT(cm)					PZ						CWZ	
							ZN 4						ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IMHP-1535	179.3	142.0	185.0	173.0	171.9	170.2	170.0	153.3	149.7	191.7	139.3	160.8	164.6
2	MPC 1-15	168.3	144.0	160.7	148.3	164.8	157.2	166.7	163.3	136.0	159.4	128.3	150.7	154.9
3	Pop corn(Jaya Shree)	182.3	137.3	165.3	149.0	143.6	155.5	176.7	168.3	128.3	182.1	135.3	158.2	153.6
4	IHPC-1203	206.7	158.3	196.3	185.3	181.9	185.7	176.7	166.7	158.7	198.1	140.0	168.0	179.1
5	ROBUST 265	190.3	166.3	181.0	174.3	173.0	177.0	163.3	160.0	131.7	210.9	139.7	161.1	166.3
6	IMHP 1540	199.0	168.3	179.3	167.0	169.6	176.7	155.0	166.7	163.0	194.0	139.7	163.7	166.1
7	DPCH-306	199.0	160.3	168.0	155.3	173.2	171.2	168.3	150.0	141.0	182.4	137.0	155.7	163.7
8	ROBUST 427	203.0	167.0	179.3	175.7	181.6	181.3	190.0	156.7	130.0	208.2	132.7	163.5	164.8
9	AP2202	178.0	135.7	186.0	184.3	175.6	171.9	180.0	163.3	127.3	199.5	128.7	159.8	160.5
10	DMRHP-1402	223.7	165.3	192.7	180.3	177.0	187.8	185.0	158.3	144.7	211.7	152.7	170.5	181.6
11	AP6005	190.3	164.3	194.0	182.0	181.9	182.5	198.3	160.0	131.7	177.8	133.0	160.2	168.5
12	IHPC-1201	197.0	156.3	181.7	150.7	179.4	173.0	175.0	156.7	116.3	192.7	129.3	154.0	172.3
13	SJPC1	196.7	164.7	179.0	117.7	154.1	162.4	175.0	158.3	137.0	176.3	113.3	152.0	160.0
	CHECKS													
14	VL Amber Popcorn (C)	184.0	138.0	158.3	-	176.8	164.3	185.0	163.3	153.0	168.4	128.3	159.6	159.4
	Loc. Mean	**192.7**	**154.9**	**179.0**	**153.1**	**171.7**	**172.6**	**176.1**	**160.4**	**139.2**	**189.5**	**134.1**	**159.8**	**165.4**
	C.D. (5%)	19.59	12.91	16.55	15.37	8.19	13.76	10.76	14.20	12.54	18.65	22.47	14.26	6.62
	C.V. (%)	6.06	4.97	5.51	5.98	2.84	6.28	3.64	5.28	5.37	5.86	9.98	7.03	7.20
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.26	0.28	0.00

TABLE No. 19 (Contd.)

		EAR HEIGHT(cm)				NHZ						NWPZ							NEPZ
						ZN 1						ZN 2							ZN 3
S.No.	PEDIGREE	ALMO	BAJA	KANG	IMPH	Mean	LUDH	KARN	DELH	KANP	PANT	Mean	DHOL	BHUB	RANC	BAHR	KALY	SABO	Mean
1	IMHP-1535	96.7	96.7	76.0	112.4	95.4	83.3	80.7	74.8	75.7	82.0	79.3	51.0	55.3	69.1	55.4	60.6	69.3	60.1
2	MPC 1-15	93.3	105.0	94.3	110.9	100.9	71.7	75.7	79.4	73.0	85.0	76.9	49.3	56.7	62.2	45.6	50.3	56.7	53.5
3	Pop corn(Jaya Shree)	86.7	75.0	76.7	89.5	82.0	58.3	60.0	51.8	73.3	69.3	62.6	43.3	49.7	66.6	37.8	71.5	47.0	52.6
4	IHPC-1203	105.0	108.3	97.3	117.4	107.0	95.0	86.7	104.6	67.7	106.3	92.1	56.7	56.0	66.0	76.4	73.6	83.3	68.7
5	ROBUST 265	80.0	85.0	94.3	95.5	88.7	63.3	62.0	71.6	64.3	72.0	66.7	51.0	56.7	69.2	35.4	68.3	47.0	54.6
6	IMHP 1540	100.0	106.7	93.3	109.9	102.5	60.0	85.3	89.3	61.0	87.3	76.6	49.0	56.7	68.5	43.3	67.9	62.3	57.9
7	DPCH-306	100.0	115.0	93.3	107.2	103.9	61.7	77.0	76.9	65.3	85.0	73.2	45.7	54.0	66.1	45.9	58.6	54.7	54.2
8	ROBUST 427	86.7	98.3	111.7	96.0	98.2	65.0	67.0	63.3	56.3	69.0	64.1	48.3	50.7	63.6	35.5	69.0	45.3	52.1
9	AP2202	90.0	93.3	85.7	93.3	90.6	66.7	62.3	75.2	65.3	75.0	68.9	46.0	54.0	70.2	37.3	63.9	58.7	55.0
10	DMRHP-1402	110.0	138.3	112.3	133.7	123.6	91.7	61.7	111.1	68.7	107.3	88.1	68.3	54.7	66.7	76.3	59.5	78.3	67.3
11	AP6005	88.3	98.3	83.0	108.4	94.5	56.7	61.0	81.3	71.7	73.3	68.8	48.3	58.7	67.1	48.3	77.4	64.0	60.6
12	IHPC-1201	88.3	113.3	105.7	118.3	106.4	85.0	94.0	101.6	73.3	96.0	90.0	45.0	54.0	80.9	57.4	85.1	73.0	65.9
13	SJPC1	95.0	108.3	112.7	108.5	106.1	60.0	78.3	71.1	64.0	94.3	73.5	50.7	54.0	63.7	56.4	55.2	69.3	58.2
	CHECKS																		
14	VL Amber Popcorn (C)	95.0	98.3	98.3	109.8	100.4	61.7	62.7	78.7	63.0	86.0	70.4	42.3	57.7	68.4	34.9	75.6	51.7	55.1
	Loc. Mean	**93.9**	**102.9**	**95.3**	**107.9**	**100.0**	**70.0**	**72.5**	**80.8**	**67.3**	**84.9**	**75.1**	**49.6**	**54.9**	**67.7**	**49.0**	**66.9**	**61.5**	**58.3**
	C.D. (5%)	12.64	16.85	5.88	12.68	10.78	21.38	3.18	6.58	2.53	11.87	11.20	9.50	2.86	7.73	6.76	15.70	12.71	9.14
	C.V. (%)	8.02	9.76	3.67	7.00	7.54	18.20	2.61	4.85	2.24	8.33	11.75	11.40	3.10	6.80	8.21	13.99	12.32	13.61
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00

TABLE No. 19 (Contd.)

		EAR HEIGHT(cm)					PZ						CWZ	
							ZN 4						ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IMHP-1535	75.3	44.0	88.7	91.3	90.7	78.0	80.0	56.7	62.3	74.3	61.7	67.0	74.6
2	MPC 1-15	71.3	46.3	82.0	92.0	95.3	77.4	83.3	65.0	68.0	62.5	65.0	68.8	73.6
3	Pop corn(Jaya Shree)	69.3	41.0	68.7	82.3	70.0	66.3	91.7	71.0	56.3	64.2	61.7	69.0	65.3
4	IHPC-1203	97.3	58.7	94.0	103.3	97.5	90.2	53.0	73.3	77.3	80.1	63.3	69.4	83.9
5	ROBUST 265	73.7	66.0	67.7	88.3	88.0	76.7	86.7	66.7	54.0	69.5	55.0	66.4	69.2
6	IMHP 1540	89.7	67.3	85.0	85.3	93.5	84.2	79.7	71.7	66.3	67.3	60.0	69.0	76.3
7	DPCH-306	86.0	61.0	87.3	90.7	82.9	81.6	80.0	53.3	67.0	66.7	60.0	65.4	73.7
8	ROBUST 427	80.3	65.3	78.0	94.7	90.3	81.7	85.0	55.0	59.7	70.5	55.0	65.0	70.4
9	AP2202	70.3	38.0	79.7	104.7	85.0	75.5	85.0	58.3	55.3	67.7	51.7	63.6	69.3
10	DMRHP-1402	107.7	66.3	93.7	91.7	89.9	89.8	65.0	63.3	62.3	89.7	63.3	68.7	85.3
11	AP6005	76.7	64.3	84.0	100.7	88.2	82.8	98.3	58.3	61.7	65.1	65.7	69.8	74.0
12	IHPC-1201	89.3	59.0	84.3	82.0	98.8	82.7	46.7	61.7	49.3	69.4	56.7	56.7	78.7
13	SJPC1	91.3	65.3	81.7	80.3	84.1	80.5	87.0	65.0	64.0	62.2	70.0	69.6	75.7
	CHECKS													
14	VL Amber Popcorn (C)	89.7	42.0	74.0	-	97.6	75.8	86.7	63.3	73.7	62.7	53.3	67.9	72.0
	Loc. Mean	**83.4**	**56.0**	**82.0**	**84.8**	**89.4**	**80.2**	**79.1**	**63.0**	**62.7**	**69.4**	**60.2**	**66.9**	**74.4**
	C.D. (5%)	15.73	9.52	9.79	10.43	5.79	10.32	7.28	14.75	13.25	11.40	14.34	11.56	4.99
	C.V. (%)	11.24	10.12	7.11	7.33	3.86	10.14	5.48	13.94	12.60	9.79	14.20	13.61	12.04
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.01	0.00	0.38	0.72	0.00

TABLE No. 20 **PERFORMANCE OF SWEET CORN EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, IMPHAL, LUDHIANA, KARNAL, DELHI, PANTNAGAR, DHOLI, BHUBANESHWAR, RANCHI, VARANASI, BAHRAICH, KALYANI, SABOUR,HYDERABAD, KARIMNAGAR, DHARWAD,MANDYA, COIMBATORE, RAHURI, UDAIPUR, BANSWARA, CHHINDWARA, AMBIKAPUR, GODHRA IN TRIAL No. TR SWEETCORN DURING KHARIF 2016**

Sl		GREEN EAR YIELD (kg/ha)																NPWZ	
		NHZ(ZN 1)																ZN 2	
No	PEDIGREE	ALMO	R	KANG	R	IMPH	R	MEAN	R	LUDH	R	KARN	R	DELH	R	PANT	R	MEAN	R
1	BSCH 6	16019	7	9707	7	13011	10	12912	9	13125	8	12886	4	11563	6	15000	10	13143	6
2	ASKH 4	13843	9	12988	1	18800	3	15210	4	14132	5	12106	5	11375	7	17926	4	13885	4
3	Madhula	17269	4	8935	9	17300	6	14501	6	13438	6	13803	1	13924	2	16222	8	14347	3
4	BIO 4043	16898	5	9914	5	14311	9	13708	7	15347	3	7981	11	10444	8	17222	6	12749	8
5	MITHAS	21250	1	11939	2	20222	1	17804	1	16736	1	11006	7	16361	1	18704	3	15702	1
6	FSCH 55*	10741	12	7344	10	7300	12	8462	12	8194	11	9218	9	6375	#	12481	13	9067	12
7	ASKH 6	14954	8	5532	12	17878	4	12788	10	12118	10	12972	3	9229	#	17667	5	12996	7
8	FSCH 75	17778	3	11001	3	16900	7	15226	3	14583	4	6760	13	10444	9	14926	11	11678	10
9	FSCH 91	16296	6	9354	8	19589	2	15080	5	13368	7	8847	10	12389	4	15037	9	12410	9
#	VEHS-16-1	13611	10	10371	4	15067	8	13016	8	12847	9	10658	8	12653	3	19259	1	13854	5
	CHECKS																		
#	Misthi (C)	19074	2	9748	6	17822	5	15548	2	15694	2	13691	2	11972	5	18778	2	15034	2
#	Madhuri Sweet Corn (C)	11065	11	6832	11	9755.6	11	9217	11	7917	12	11511	6	7826	#	16333	7	10897	11
#	Priya Sweet Corn (C)	10231	13	4596	13	7111.1	13	7313	13	7917	12	7483	12	5903	#	14889	12	9048	13
	Location Mean	**15310**		**9097**		**15005**		**13137**		**12724**		**10686**		**10804**		**16496**		**12678**	
	C.D. (5%)	2436		953		690		1360		2004		695		1170		1883		1438	
	C.V. (%)	11.78		7.76		11.35		-		11.66		4.82		8.01		8.45		-	
	F (Prob)	0		0		0				0		0		0		0			
	Plot Size	7.2		4.8		10		-		9.6		12		12		9		-	
	AGRONOMY DATA																		
	Sowing Date	5-07		23-06		18-08		-		16-07		3-07		8-07		29-06		-	
	Harvest Date	22-07		-		20-12		-		2-10		-		25-09		-		-	
	Irrigation Nos	-		-		-		-		5		5		5		-		-	
	Ferilizer Applied N	100		120		80		-		50		150		-		120		-	
	Ferilizer Applied P	60		60		60		-		24		60		-		60		-	
	Ferilizer Applied K	40		40		40		-		12		60		-		40		-	

LOCATIONS REJECTED DUE TO HIGH C.V.: SABO 23.7 %: HYDE 25.4 %

TABLE No. 20 (Contd.)

Sl No	PEDIGREE	GREEN EAR YIELD (kg/ha)												NEPZ										PZ				CWZ				OV'L	
														ZN 3										ZN 4				ZN 5					
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	RAHU	R	MEAN	R	GODH	R	MEAN	R	MEAN	R
1	BSCH 6	6528	1	12552	2	7827	8	4340	10	9097	7	13566	5	8069	6	7744	13	7869	10	15951	6	18639	2	9419	3	12970	3	6944	2	6944	2	10808	5
2	ASKH 4	5917	8	10833	7	11295	2	8194	3	9896	4	13758	3	9227	2	9656	5	8949	6	14253	9	18854	1	11151	1	13302	2	6111	3	6111	3	11547	3
3	Madhula	5556	12	9063	12	10714	3	5590	6	12431	2	10458	9	8671	4	9422	6	9121	5	12181	13	18333	4	9268	4	12226	6	4875	7	4875	7	10924	4
4	BIO 4043	6500	2	11927	4	8899	5	4097	11	14340	1	13690	4	9153	3	10067	4	10937	2	15660	7	11472	11	8695	7	11691	8	4676	8	4676	8	10395	7
5	MITHAS	6444	3	12656	1	8631	6	4965	8	7847	10	16535	1	8109	5	11372	2	9269	4	16340	4	14177	7	9868	2	12414	5	5000	6	5000	6	11806	2
6	FSCH 55*	6028	7	10208	9	3423	13	5069	7	7951	9	7264	12	6536	12	8994	8	4899	12	12701	11	13615	9	6573	12	9447	12	3611	11	3611	11	7425	12
7	ASKH 6	5806	10	9531	11	8438	7	8472	2	7014	12	7752	10	7852	8	9078	7	9519	3	15080	8	12351	10	7931	9	11220	9	4583	9	4583	9	9888	10
8	FSCH 75	6111	6	9635	10	7098	9	6111	5	8576	8	11264	7	7506	9	8606	9	8449	8	15990	5	17083	5	8916	6	12609	4	4551	10	4551	10	10314	8
9	FSCH 91	6389	4	10521	8	9152	4	4583	9	6840	13	11916	6	7497	10	7950	11	8738	7	16444	3	16656	6	6339	13	12044	7	5694	4	5694	4	10545	6
#	VEHS-16-1	6222	5	12188	3	5000	11	6875	4	9410	5	10664	8	7939	7	7878	12	8126	9	16681	2	9747	13	8920	5	10868	10	5694	5	5694	5	10274	9
	CHECKS																																
#	Misthi (C)	5472	13	10885	6	11830	1	9722	1	10625	3	14346	2	9707	1	10611	3	12604	1	20215	1	18448	3	8671	8	14985	1	7218	1	7218	1	12498	1
#	Madhuri Sweet Corn (C)	5917	9	8438	13	6339	10	3611	13	9201	6	7231	13	6701	11	8283	10	5285	11	13896	10	13788	8	7542	10	10128	11	2083	13	2083	13	7805	11
#	Priya Sweet Corn (C)	5667	11	11354	5	4464	12	3854	12	7222	11	7592	11	6512	13	12372	1	4139	13	12639	12	10403	12	6833	11	8504	13	2963	12	2963	12	6868	13
	Location Mean	**6043**		**10753**		**7932**		**5807**		**9265**		**11234**		**7960**		**9387**		**8300**		**15233**		**14890**		**8471**		**11723**		**4923**		**4923**		**10084**	
	C.D. (5%)	937		418		1655		803		996		3601		962		3222		1350		4099		928		1971		2087		238		1366		1074	
	C.V. (%)	**11.47**		2.87		17.74		10.23		7.96		**23.73**		**-**		**25.41**		12.03		**19.91**		4.61		17.22		**-**		3.58		**-**		-	
	F (Prob)	0.568		0		0		0		0		0.001				0.442		0		0.176		0		0.012				0					
	Plot Size	12		9.6		11.2		9.6		9.6		9.6		-		12		12		9.6		9.6		9.6		-		7.2		-		-	
	AGRONOMY DATA																																
	Sowing Date	28-06		5-07		18-07		26-06		24-06		2-07		-		22-06		30-06		27-08		2-08		14-07		-		8-07		-		-	
	Harvest Date	15-10		19-09		-		15-09		12-09		21-10		-		13-09		14-09		16-09		26-10		2-10		-		17-09		-		-	
	Irrigation Nos	2		-		-		-		-		3		-		4		4		1		5		2		-		-		-		-	
	Ferilizer Applied N	120		120		120		120		120		130		-		200		200		150		150		120		-		120		-		-	
	Ferilizer Applied P	60		60		60		60		60		40		-		60		60		65		75		60		-		60		-		-	
	Ferilizer Applied K	40		60		40		40		60		30		-		50		50		65		40		40		-		-		-		-	

TABLE No. 20 (Contd.)

Sl No	PEDIGREE	GREEN EAR YIELD % SUPERIORITY OVER THE Misthi (C) NHZ(ZN 1) ALMO	R	KANG	R	IMPH	R	MEAN	R	LUDH	R	KARN	R	DELH	R	PANT	R	NWPZ ZN 2 MEAN	R
1	BSCH 6	-		-		-		-		-		-		-		-		-	
2	ASKH 4	-		32.7		5.5		-		-		-		-		-		-	
3	Madhula	-		-		-		-		-		0.8		16.3		-		-	
4	BIO 4043	-		1.3		-		-		-		-		-		-		-	
5	MITHAS	11.4		22.0		13.5		14.5		6.6		-		36.7		-		4.4	
6	FSCH 55*	-		-		-		-		-		-		-		-		-	
7	ASKH 6	-		-		0.3		-		-		-		-		-		-	
8	FSCH 75	-		12.4		-		-		-		-		-		-		-	
9	FSCH 91	-		-		9.9		-		-		-		3.5		-		-	
10	VEHS-16-1	-		6.0		-		-		-		-		5.7		2.6		-	
	CHECKS																		
11	Misthi (C)	-		-		-		-		-		-		-		-		-	
12	Madhuri Sweet Corn (C)	-		-		-		-		-		-		-		-		-	
13	Priya Sweet Corn (C)	-		-		-		-		-		-		-		-		-	

TABLE No. 20 (Contd.)

Sl No	PEDIGREE	GREEN EAR YIELD % SUPERIORITY OVER THE Misthi (C																		NEPZ ZN 3						PZ ZN 4		CWZ ZN 5		OV'L	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	RAHU	R	MEAN	R	GODH	R	MEAN	R
1	BSCH 6	19.3		15.3		-		-		-		-		-		-		-		-		1		8.6		-		-		-	
2	ASKH 4	8.1		-		-		-		-		-		-		-		-		-		2.2		28.6		-		-		-	
3	Madhula	1.5		-		-		-		17		-		-		-		-		-		-		6.9		-		-		-	
4	BIO 4043	18.8		9.6		-		-		35		-		-		-		-		-		-		0.3		-		-		-	
5	MITHAS	17.8		16.2		-		-		-		15.3		-		7.1		-		-		-		13.8		-		-		-	
6	FSCH 55*	10.2		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
7	ASKH 6	6.1		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
8	FSCH 75	11.7		-		-		-		-		-		-		-		-		-		-		2.8		-		-		-	
9	FSCH 91	16.8		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
10	VEHS-16-1	13.7		11.8		-		-		-		-		-		-		-		-		-		2.9		-		-		-	
	CHECKS																														
11	Misthi (C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
12	Madhuri Sweet Corn (C)	8.1		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
13	Priya Sweet Corn (C)	3.6		4.3		-		-		-		-		-		16.5		-		-		-		-		-		-		-	

TABLE No. 20 (Contd.)

Sl No	PEDIGREE	GREEN EAR YIELD % SUPERIORITY OVER THE Madhuri Sweet Corn (C) NHZ(ZN 1) ALMO	R	KANG	R	IMPH	R	MEAN	R	LUDH	R	KARN	R	DELH	R	PANT	R	NWPZ ZN 2 MEAN	R
1	BSCH 6	44.8		42.1		33.4		48.5		65.8		11.9		47.7		-		20.6	
2	ASKH 4	25.1		90.1		92.7		47.8		78.5		5.2		45.3		9.8		27.4	
3	Madhula	56.1		30.8		77.3		66.3		69.7		19.9		77.9		-		31.7	
4	BIO 4043	52.7		45.1		46.7		61.6		93.9		-		33.4		5.4		17	
5	MITHAS	92.1		74.8		107.3		97.8		111.4		-		109		14.5		44.1	
6	FSCH 55*	-		7.5		-		-		3.5		-		-		-		-	
7	ASKH 6	35.1		-		83.3		39.2		53.1		12.7		17.9		8.2		19.3	
8	FSCH 75	60.7		61		73.2		60.6		84.2		-		33.4		-		7.2	
9	FSCH 91	47.3		36.9		100.8		46.3		68.9		-		58.3		-		13.9	
10	VEHS-16-1	23		51.8		54.4		36.0		62.3		-		61.6		17.9		27.1	
	CHECKS							-											
11	Misthi (C)	72.4		42.7		82.7		72.8		98.2		18.9		52.9		15		38	
12	Madhuri Sweet Corn (C)	-		-		-		-		-		-		-		-		-	
13	Priya Sweet Corn (C)	-		-		-		-		-		-		-		-		-	

TABLE No. 20 (Contd.)

Sl No	PEDIGREE	GREEN EAR YIELD % SUPERIORITY OVER THE Madhuri Sweet Corn (C)																PZ		CWZ			
		NEPZ(ZN 3)																ZN 4		ZN 5		OV'L	
		DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	RAHU	R	MEAN	R	GODH	R	MEAN	R
1	BSCH 6	10.3		49		23.5		20.2		-		87.6		20.4		-		48.9		14.8		35.2		24.9		28.1		233.3		38.47	
2	ASKH 4	-		28.4		78.2		126.9		7.5		90.3		37.7		16.8		69.3		2.6		36.7		47.8		31.3		193.3		47.94	
3	Madhula	-		7.4		69.0		54.8		35.1		44.6		29.4		13.8		72.6		-		33		22.9		20.7		133.3		39.96	
4	BIO 4043	9.9		41.6		40.4		13.5		55.8		89.3		36.6		21.5		106.9		12.7		-		15.3		15.4		124.4		33.19	
5	MITHAS	8.9		50.2		36.2		37.5		-		128.7		21.0		37.2		75.4		17.6		2.8		30.8		22.6		140		51.26	
6	FSCH 55*	1.9		21		-		40.4		-		0.5		-		8.7		-		-		-		-		-		73.3		-	
7	ASKH 6	-		13.2		33.1		134.6		-		7.2		17.2		9.7		80.1		8.5		-		5.2		10.8		120		26.69	
8	FSCH 75	3.3		14.4		12.0		69.2		-		55.8		12.0		4		59.9		15.1		23.9		18.2		24.5		117.8		32.15	
9	FSCH 91	8		24.7		44.4		26.9		-		64.8		11.9		-		65.3		18.3		20.8		-		18.9		173.3		35.11	
10	VEHS-16-1	5.2		44.4		-		90.4		2.3		47.5		18.5		-		53.7		20		-		18.3		7.3		173.3		31.64	
	CHECKS													-												-				-	
11	Misthi (C)	-		29.2		86.6		169.2		15.5		98.4		44.9		28.2		138.5		45.5		33.8		15		48.0		246.7		60.13	
12	Madhuri Sweet Corn (C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
13	Priya Sweet Corn (C)	-		34.6		-		6.7		-		5		-		49.3		-		-		-		-		-		42.2		-	

TABLE No. 20 (Contd.)

Sl No	PEDIGREE	GREEN EAR YIELD % SUPERIORITY OVER THE Priya Sweet Corn (C) NHZ(ZN 1) ALMO	R	KANG	R	IMPH	R	MEAN	R	LUDH	R	KARN	R	DELH	R	PANT	R	NWPZ ZN 2 MEAN	R
1	BSCH 6	56.6		111.2		83		75.3		65.8		72.2		95.9		0.7		45.3	
2	ASKH 4	35.3		182.6		164.4		74.4		78.5		61.8		92.7		20.4		53.5	
3	Madhula	68.8		94.4		143.3		96.2		69.7		84.4		135.9		9		58.6	
4	BIO 4043	65.2		115.7		101.3		90.6		93.9		6.6		76.9		15.7		40.9	
5	MITHAS	107.7		159.8		184.4		133.4		111.4		47.1		177.2		25.6		73.5	
6	FSCH 55*	5		59.8		2.7		16.7		3.5		23.2		8		-		0.2	
7	ASKH 6	46.2		20.4		151.4		64.3		53.1		73.3		56.4		18.7		43.6	
8	FSCH 75	73.8		139.4		137.7		89.5		84.2		-		76.9		0.2		29.1	
9	FSCH 91	59.3		103.5		175.5		72.6		68.9		18.2		109.9		1		37.2	
10	VEHS-16-1	33		125.7		111.9		60.5		62.3		42.4		114.4		29.4		53.1	
	CHECKS							-											
11	Misthi (C)	86.4		112.1		150.6		103.9		98.2		83		102.8		26.1		66.2	
12	Madhuri Sweet Corn (C)	8.1		48.7		37.2		18.0		-		53.8		32.6		9.7		20.4	
13	Priya Sweet Corn (C)	-		-		-		-		-		-		-		-		-	

TABLE No. 20 (Contd.)

Sl No	PEDIGREE	GREEN EAR YIELD % SUPERIORITY OVER THE Priya Sweet Corn (C) NWPZ(ZN 3) DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	RAHU	R	PZ ZN 4 MEAN	R	CWZ ZN 5 GODH	R	OV'L MEAN	R
1	BSCH 6	15.2		10.7		75.3		12.6		26		78.7		23.9		-		90.1		26.2		79.2		37.8		52.51		134.4		57.36	
2	ASKH 4	4.4		-		153.0		112.6		37		81.2		41.7		-		116		12.8		81.2		63.2		56.42		106.3		68.13	
3	Madhula	-		-		140.0		45		72.1		37.7		33.1		-		120		-		76.2		35.6		43.76		64.1		59.05	
4	BIO 4043	14.7		5.2		99.3		6.3		98.6		80.3		40.6		-		164		23.9		10.3		27.2		37.47		57.8		51.36	
5	MITHAS	13.7		11.6		93.3		28.8		8.7		117.8		24.5		-		124		29.3		36.3		44.4		45.97		68.8		71.89	
6	FSCH 55*	6.4		-		-		31.5		10.1		-		0.4		-		18.3		0.5		30.9		-		11.09		21.9		8.104	
7	ASKH 6	2.5		-		89.0		119.8		-		2.1		20.6		-		130		19.3		18.7		16.1		31.94		54.7		43.97	
8	FSCH 75	7.8		-		59.0		58.6		18.7		48.4		15.3		-		104		26.5		64.2		30.5		48.28		53.1		50.18	
9	FSCH 91	12.7		-		105.0		18.9		-		56.9		15.1		-		111		30.1		60.1		-		41.63		92.2		53.54	
10	VEHS-16-1	9.8		7.3		12.0		78.4		30.3		40.5		21.9		-		96.3		32		-		30.5		27.8		92.2		49.6	
	CHECKS													-100.0												-				-	
11	Misthi (C)	-		-		165.0		152.3		47.1		89		49.1		-		205		59.9		77.3		26.9		76.21		143.8		81.98	
12	Madhuri Sweet Corn (C)	4.4		-		42.0		-		27.4		-		2.9		-		27.7		9.9		32.5		10.4		19.09		-		13.65	
13	Priya Sweet Corn (C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 20 (Contd.)

Sl	COB WEIGHT WITHOUT HUSK (kg/ha)								ZN 1										NPWZ ZN 2	
No	PEDIGREE	ALMO	R	BAJA	R	KANG	R	IMPH	R	MEAN	R	KARN	R	DELH	R	KANP	R	PANT	R	MEAN	R
1	BSCH 6	10926	7	19714	5	8483	5	9081.1	10	12051	6	10446	2	9064	6	10833	10	10704	11	10262	5
2	ASKH 4	10093	10	14548	9	10689	1	12639	3	11992	7	9166	6	8600	7	11806	5	12370	5	10485	4
3	Madhula	12917	4	21648	3	7913	6	11483	6	13490	3	10996	1	11033	2	11667	6	11037	9	11183	2
4	BIO 4043	12639	5	20492	4	7490	8	11814	5	13109	4	6728	11	6536	10	10174	12	12370	4	8952	11
5	MITHAS	15556	1	24074	1	9731	2	14828	1	16047	1	9175	5	13843	1	11563	7	12815	2	11849	1
6	FSCH 55*	8425.9	12	13236	11	5171	12	5255.6	13	8022	12	7161	10	3919	13	10174	13	10111	13	7841	13
7	ASKH 6	10556	8	15924	8	5172	11	13528	2	11295	9	9761	4	6728	9	11076	9	11889	7	9864	7
8	FSCH 75	13657	3	18927	6	9092	3	10452	8	13032	5	5651	13	7461	8	12222	2	11407	8	9185	10
9	FSCH 91	12269	6	16907	7	6833	9	11474	7	11871	8	7236	9	9569	4	11840	4	10370	12	9754	8
10	VEHS-16-1	10463	9	14377	10	8946	4	10361	9	11037	10	7399	8	9222	5	11181	8	12111	6	9978	6
	CHECKS																				
11	Misthi (C)	14306	2	21780	2	7690	7	12304	4	14020	2	10314	3	10203	3	10243	11	13426	1	11046	3
12	Madhuri Sweet Corn (C)	8518.5	11	12844	12	5500	10	5587.8	11	8112.5	11	8339	7	4878	11	12639	1	12704	3	9640	9
13	Priya Sweet Corn (C)	7777.8	13	11491	13	2900	13	5335.6	12	6876	13	6098	12	4171	12	12153	3	11000	10	8355	12
	Location Mean	**11392**		**17382**		**7355**		**10319**		**11612**		**8344**		**8094**		**11351**		**11717**		**9877**	
	C.D. (5%)	2019		1221		562		313		1029		576		840		375		1348		1019	
	C.V. (%)	13.12		5.2		5.65		7.48		-		5.11		7.67		2.44		8.52		-	
	F (Prob)	0		0		0		0				0		0		0		0.006			
	Plot Size	7.2		6		4.8		10		-		12		12		9.6		9		-	
	AGRONOMY DATA																				
	Sowing Date	5-07		3-06		23-06		18-08		-		3-07		8-07		23-07		29-06		-	
	Harvest Date	22-07		-		-		20-12		-		-		25-09		17-11		-		-	
	Irrigation Nos	-		3		-		-		-		5		5		2		-		-	
	Ferilizer Applied N	100		120		120		80		-		150		-		120		120		-	
	Ferilizer Applied P	60		60		60		60		-		60		-		60		60		-	
	Ferilizer Applied K	40		40		40		40		-		60		-		50		40		-	

LOCATIONS REJECTED DUE TO HIGH C.V. : DHOL 23.4 %: SABO 22.2 %: HYDE 27.6 %: DHAR 24.7

TABLE No. 20 (Contd.)

Sl		COB WEIGHT WITHOUT HUSK (kg/ha)												NEPZ ZN 3												PZ ZN 4	
No	PEDIGREE	DHOL	R	BHUB	R	VARA	R	BAHR	R	KALY	R	SABO	R	MEAN	R	HYDE	R	KARI	R	DHAR	R	MAND	R	COIM	R	RAHU	R	MEAN	R
1	BSCH 6	4222	3	8785	2	3236	10	8021	5	9455	9	10333	2	7374	8	6206	12	5376	10	11417	5	11542	4	17382	4	7281	5	10395	3
2	ASKH 4	3528	10	7326	8	5646	3	8889	4	10510	7	9671	5	8093	4	7387	7	6543	8	8868.1	12	12701	1	13177	9	7549	2	9992	5
3	Madhula	3556	9	6667	12	3788	6	11250	2	10604	6	8253	8	8077	5	7566	5	6558	7	10097	7	11382	6	10767	12	7353	3	9015	9
4	BIO 4043	4250	2	8646	4	2917	12	13125	1	10646	5	10060	3	8833	1	8175	4	9129	1	10056	8	7483	11	15139	5	7285	4	9759	6
5	MITHAS	3750	7	9757	1	3604	8	6563	9	12764	1	11679	1	8172	3	9100	2	7043	3	12160	3	9313	8	17802	2	6933	7	10273	4
6	FSCH 55*	3944	5	7639	7	3736	7	6806	8	6365	12	5286	11	6136	11	7450	6	3385	11	9673.6	10	9497	7	11115	10	5590	11	7397	11
7	ASKH 6	4028	4	6701	11	6066	2	5938	12	10792	4	5599	10	7374	8	7333	8	6839	5	11236	6	8865	9	13972	7	6542	9	9054	8
8	FSCH 75	3000	13	7257	9	4299	5	7500	7	11861	2	8536	7	7729	7	7020	9	6565	6	9576.4	11	11497	5	17615	3	7614	1	10823	2
9	FSCH 91	4444	1	7257	10	3344	9	6007	11	8566	11	8889	6	6293	10	6228	11	7004	4	13111	2	11583	3	14510	6	4723	13	9455	7
10	VEHS-16-1	3833	6	8750	3	4785	4	7882	6	10844	3	7970	9	8065	6	6044	13	6107	9	11542	4	7139	13	13688	8	7253	6	8547	10
	CHECKS																												
11	Misthi (C)	3444	11	7951	5	7170	1	9479	3	10472	8	10029	4	8768	2	8882	3	8881	2	16042	1	12160	2	18920	1	6580	8	11635	1
12	Madhuri Sweet Corn (C)	3222	12	5903	13	2972	11	8021	5	9042	10	4770	13	6484	9	6372	10	3334	12	7215.3	13	8153	10	11031	11	5678	10	7049	12
13	Priya Sweet Corn (C)	3583	8	7882	6	2840	13	6354	10	3622	13	5096	12	5174	12	10386	1	3190	13	9937.5	9	7184	12	10063	13	4999	12	6359	13
	Location Mean	**3754**		**7732**		**4185**		**8141**		**9657**		**8167**		**7428**		**7550**		**6150**		**10841**		**9884**		**14245**		**6568**		**9211**	
	C.D. (5%)	1187		470		570		1028		2383		2451		1296		2819		993		3623		924		639		1455		1003	
	C.V. (%)	**23.39**		4.5		10.07		9.35		18.26		**22.21**		**-**		**27.62**		11.95		**24.73**		6.92		3.32		16.39		**-**	
	F (Prob)	0.725		0		0		0		0		0				0.358		0		0.053		0		0		0.016			
	Plot Size	12		9.6		9.6		9.6		9.6		9.6		-		12		12		9.6		9.6		9.6		9.6		-	
	AGRONOMY DATA																												
	Sowing Date	28-06		5-07		26-06		24-06		24-06		2-07		-		22-06		30-06		27-08		2-08		19-07		14-07		-	
	Harvest Date	15-10		19-09		15-09		12-09		5-10		21-10		-		13-09		14-09		16-09		26-10		5-10		2-10		-	
	Irrigation Nos	2		-		-		-		-		3		-		4		4		1		5		7		2		-	
	Ferilizer Applied N	120		120		120		120		150		130		-		200		200		150		150		250		120		-	
	Ferilizer Applied P	60		60		60		60		75		40		-		60		60		65		75		75		60		-	
	Ferilizer Applied K	40		60		40		60		75		30		-		50		50		65		40		75		40		-	

TABLE No. 20 (Contd.)

Sl		COB WEIGHT WITHOUT HUSK (kg/ha)										CWZ ZN 5		OV'L	
No	PEDIGREE	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	MEAN	R	MEAN	R
1	BSCH 6	16632	3	12014	3	23875	2	11563	5	4884	2	13794	2	10775	3
2	ASKH 4	16389	4	10861	10	19066	6	7743	10	4708	3	11753	7	10463	7
3	Madhula	11181	12	11250	5	18792	7	10903	6	2491	10	10923	10	10538	4
4	BIO 4043	15590	6	11181	6	23153	4	6493	11	3657	7	12015	4	10534	5
5	MITHAS	16667	2	8194.4	13	24708	1	14340	1	3704	6	13523	3	11973	1
6	FSCH 55*	15347	8	11563	4	15840	11	7917	9	1778	13	10489	11	7977	12
7	ASKH 6	16389	5	8638.9	12	18458	8	9097	8	2963	9	11109	8	9739	9
8	FSCH 75	15590	7	10927	8	16875	9	11840	4	3611	8	11769	6	10508	6
9	FSCH 91	12917	11	10903	9	19212	5	12188	3	4690	4	11982	5	9871	8
10	VEHS-16-1	15035	9	10139	11	15833	12	9792	7	3889	5	10938	9	9713	10
	CHECKS														
11	Misthi (C)	14653	10	12118	2	23639	3	13681	2	6111	1	14040	1	11902	2
12	Madhuri Sweet Corn (C)	17118	1	11069	7	15799	13	6076	12	2236	12	10460	12	8349	11
13	Priya Sweet Corn (C)	8159.7	13	12465	1	16042	10	5174	13	2407	11	8849.5	13	7123	13
	Location Mean	**14744**		**10871**		**19330**		**9754**		**3625**		**11665**		**9958**	
	C.D. (5%)	406		1004		1672		1336		575		998		1074	
	C.V. (%)	2.04		6.83		6.4		10.14		11.75		-		-	
	F (Prob)	0		0		0		0		0					
	Plot Size	9.6		9.6		9.6		9.6		7.2		-		-	
	AGRONOMY DATA														
	Sowing Date	5-07		27-06		17-07		6-07		8-07		-		-	
	Harvest Date	17-07		-		10-10		-		17-09		-		-	
	Irrigation Nos	1		-		-		-		-		-		-	
	Ferilizer Applied N	90		150		120		100		120		-		-	
	Ferilizer Applied P	60		80		60		50		60		-		-	
	Ferilizer Applied K	-		-		40		30		-		-		-	

TABLE No. 20 (Contd.)

Sl No	PEDIGREE	COB WEIGHT WITHOUT HUSK % SUPERIORITY OVER THE Misthi (C) NHZ(ZN 1) ALMO	R	BAJA	R	KANG	R	IMPH	R	MEAN	R	KARN	R	DELH	R	KANP	R	PANT	R	NWPZ ZN 2 MEAN	R	DHOL	R	BHUB	R	VARA	R	BAHR	R	KALY	R	SABO	R	NEPZ ZN 3 MEAN	R
1	BSCH 6	-		-		10.3		-		-		1.3		-		5.8		-		-		22.6		10.5		-		-		-		3		-	
2	ASKH 4	-		-		39		2.7		-		-		-		15.3		-		-		2.4		-		-		-		0.4		-		-	
3	Madhula	-		-		2.9		-		-		6.6		7.9		13.9		-		-		3.2		-		-		18.7		1.3		-		-	
4	BIO 4043	-		-		-		-		-		-		-		-		-		-		23.4		8.7		-		38.5		1.7		0.3		1.79	
5	MITHAS	8.7		10.5		26.5		20.5		13.4		-		35.6		12.9		-		7.1		8.9		22.7		-		-		21.9		16.5		-	
6	FSCH 55*	-		-		-		-		-		-		-		-		-		-		14.5		-		-		-		-		-		-	
7	ASKH 6	-		-		-		9.9		-		-		-		8.1		-		-		16.9		-		-		-		3.1		-		-	
8	FSCH 75	-		-		18.2		-		-		-		-		19.3		-		-		-		-		-		-		13.3		-		-	
9	FSCH 91	-		-		-		-		-		-		-		15.6		-		-		29		-		-		-		-		-		-	
10	VEHS-16-1	-		-		16.3		-		-		-		-		9.2		-		-		11.3		10		-		-		3.5		-		-	
	CHECKS																																		
11	Misthi (C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
12	Madhuri Sweet Corn (C)	-		-		-		-		-		-		-		23.4		-		-		-		-		-		-		-		-		-	
13	Priya Sweet Corn (C)	-		-		-		-		-		-		-		18.6		-		-		4		-		-		-		-		-		-	

TABLE No. 20 (Contd.)

Sl No	PEDIGREE	COB WEIGHT WITHOUT HUSK % SUPERIORITY OVER THE Misthi (C)																				PZ ZN 5		OV'L	
		HYDE	R	KARI	R	DHAR	R	MAND	R	COIM	R	RAHU	R	PZ(ZN 4) MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	MEAN	R	MEAN	R
1	BSCH 6	-		-		-		-		-		10.7		-		13.5		-		1		-		-		-		-	
2	ASKH 4	-		-		-		4.5		-		14.7		-		11.8		-		-		-		-		-		-	
3	Madhula	-		-		-		-		-		11.7		-		-		-		-		-		-		-		-	
4	BIO 4043	-		2.8		-		-		-		10.7		-		6.4		-		-		-		-		-		-	
5	MITHAS	2.5		-		-		-		-		5.4		-		13.7		-		4.5		4.8		-		-		0.6	
6	FSCH 55*	-		-		-		-		-		-		-		4.7		-		-		-		-		-		-	
7	ASKH 6	-		-		-		-		-		-		-		11.8		-		-		-		-		-		-	
8	FSCH 75	-		-		-		-		-		15.7		-		6.4		-		-		-		-		-		-	
9	FSCH 91	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
10	VEHS-16-1	-		-		-		-		-		10.2		-		2.6		-		-		-		-		-		-	
	CHECKS																												
11	Misthi (C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-	
12	Madhuri Sweet Corn (C)	-		-		-		-		-		-		-		16.8		-		-		-		-		-		-	
13	Priya Sweet Corn (C)	16.9		-		-		-		-		-		-		-		2.9		-		-		-		-		-	

TABLE No. 20 (Contd.)

Sl No	PEDIGREE	COB WEIGHT WITHOUT HUSK % SUPERIORITY OVER THE Madhuri Sweet Corn (C) NHZ(ZN 1) ALMO	R	BAJA	R	KANG	R	IMPH	R	MEAN	R	KARN	R	DELH	R	KANP	R	PANT	R	NWPZ ZN 2 MEAN	R	DHOL	R	BHUB	R	VARA	R	BAHR	R	KALY	R	SABO	R	NEPZ ZN 3 MEAN	R
1	BSCH 6	28.3		53.5		54.2		62.5		46.6		25.3		85.2		-		-		6.5		31		48.8		8.9		-		4.6		116.6		13.7	
2	ASKH 4	18.5		13.3		94.3		126		37.1		9.9		76.7		-		-		8.8		9.5		24.1		90.0		10.8		16.2		102.7		24.8	
3	Madhula	51.6		68.5		43.9		106		60.9		31.9		126		-		-		16.0		10.3		12.9		27.5		40.3		17.3		73		24.6	
4	BIO 4043	48.4		59.5		36.2		111		54.8		-		34.1		-		-		-		31.9		46.5		-		63.6		17.7		110.9		36.2	
5	MITHAS	82.6		87.4		76.9		165		88.5		10		184		-		0.9		22.9		16.4		65.3		21.3		-		41.2		144.8		26.0	
6	FSCH 55*	-		3		-		-		-		-		-		-		-		-		22.4		29.4		25.7		-		-		10.8		-	
7	ASKH 6	23.9		24		-		142		25.1		17.1		37.5		-		-		2.3		25		13.5		104.1		-		19.4		17.4		13.7	
8	FSCH 75	60.3		47.4		65.3		87.1		57		-		53.4		-		-		-		-		22.9		44.6		-		31.2		78.9		19.2	
9	FSCH 91	44		31.6		24.2		105		38.2		-		96		-		-		1.2		37.9		22.9		12.5		-		-		86.3		-	
10	VEHS-16-1	22.8		11.9		62.7		85.4		29.3		-		89.2		-		-		3.5		19		48.2		61.0		-		19.9		67.1		24.4	
	CHECKS																			-						-								-	
11	Misthi (C)	67.9		69.6		39.8		120		66.3		23.7		109		-		5.8		14.6		6.9		34.7		141.3		18.2		15.8		110.2		35.2	
12	Madhuri Sweet Corn (C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
13	Priya Sweet Corn (C)	-		-		-		-		-		-		-		-		-		-		11.2		33.5		-		-		-		6.8		-	

TABLE No. 20 (Contd.)

Sl No	PEDIGREE	COB WEIGHT WITHOUT HUSK % SUPERIORITY OVER THE Madhuri Sweet Corn (C) PZ(ZN 4) HYDE	R	KARI	R	DHAR	R	MAND	R	COIM	R	RAHU	R	MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	BSCH 6	-		61.3		58.2		41.6		57.6		28.2		47.5		-		8.5		51.1		90.3		118.4		31.9		29.1	
2	ASKH 4	15.9		96.2		22.9		55.8		19.5		33		41.8		-		-		20.7		27.4		110.6		12.4		25.3	
3	Madhula	18.7		96.7		39.9		39.6		-		29.5		27.9		-		1.6		18.9		79.4		11.4		4.5		26.2	
4	BIO 4043	28.3		173.8		39.4		-		37.2		28.3		38.4		-		0.9		46.5		6.9		63.6		14.9		26.2	
5	MITHAS	42.8		111.2		68.5		14.2		61.4		22.1		45.7		-		-		56.4		136		65.6		29.3		43.4	
6	FSCH 55*	16.9		1.5		34.1		16.5		0.8		-		4.9		-		4.4		0.3		30.3		-		0.1		-	
7	ASKH 6	15.1		105.1		55.7		8.7		26.7		15.2		28.4		-		-		16.8		49.7		32.5		6.2		16.7	
8	FSCH 75	10.2		96.9		32.7		41		59.7		34.1		53.5		-		-		6.8		94.9		61.5		12.5		25.9	
9	FSCH 91	-		110.1		81.7		42.1		31.5		-		34.1		-		-		21.6		100.6		109.7		14.6		18.2	
10	VEHS-16-1	-		83.2		60		-		24.1		27.8		21.2		-		-		0.2		61.1		73.9		4.6		16.3	
	CHECKS	-																						-				-	
11	Misthi (C)	39.4		166.4		122.3		49.1		71.5		15.9		65.1		-		9.4		49.6		125.1		173.3		34.2		42.6	
12	Madhuri Sweet Corn (C)	0.0		-		-		-		-		-		-		-		-		-		-		-		-		-	
13	Priya Sweet Corn (C)	63.0		-		37.7		-		-		-		-		-		12.5		1.5		-		8.3		-		-	

TABLE No. 20 (Contd.)

		COB WEIGHT WITHOUT HUSK % SUPERIORITY OVER THE Priya Sweet Corn (C)																		NWPZ														NEPZ	
Sl										NHZ(ZN 1)										ZN 2														ZN 3	
No	PEDIGREE	ALMO	R	BAJA	R	KANG	R	IMPH	R	MEAN	R	KARN	R	DELH	R	KANP	R	PANT	R	MEAN	R	DHOL	R	BHUB	R	VARA	R	BAHR	R	KALY	R	SABO	R	MEAN	R
1	BSCH 6	40.5		71.6		192.5		70.2		76.1		71.3		117.3		-		-		22.8		17.8		11.5		13.9		26.2		161.1		102.8		42.5	
2	ASKH 4	29.8		26.6		268.6		136.9		64.6		50.3		106.2		-		12.5		25.5		-		-		98.8		39.9		190.2		89.8		56.4	
3	Madhula	66.1		88.4		172.8		115.2		93.2		80.4		164.5		-		0.3		33.9		-		-		33.4		77		192.8		62		56.1	
4	BIO 4043	62.5		78.3		158.3		121.4		85.8		10.3		56.7		-		12.5		7.1		18.6		9.7		2.7		106.6		194		97.4		70.7	
5	MITHAS	100		109.5		235.5		177.9		126.4		50.5		231.9		-		16.5		41.8		4.7		23.8		26.9		3.3		252.4		129.2		57.9	
6	FSCH 55*	8.3		15.2		78.3		-		19.5		17.4		-		-		-		-		10.1		-		31.6		7.1		75.7		3.7		18.6	
7	ASKH 6	35.7		38.6		78.4		153.5		50.2		60.1		61.3		-		8.1		18.1		12.4		-		113.6		-		198		9.9		42.5	
8	FSCH 75	75.6		64.7		213.5		95.9		88.5		-		78.9		0.6		3.7		9.9		-		-		51.4		18		227.5		67.5		49.4	
9	FSCH 91	57.7		47.1		135.6		115.1		66		18.7		129.4		-		-		16.7		24		-		17.7		-		136.5		74.4		21.6	
10	VEHS-16-1	34.5		25.1		208.5		94.2		55.2		21.4		121.1		-		10.1		19.4		7		11		68.5		24		199.4		56.4		55.9	
	CHECKS													-						-						-								-	
11	Misthi (C)	83.9		89.5		165.2		130.6		99.7		69.2		144.6		-		22.2		32.2		-		0.9		152.5		49.2		189.2		96.8		69.5	
12	Madhuri Sweet Corn (C)	9.5		11.8		89.7		4.7		20.1		36.8		16.9		4		15.5		15.4		-		-		4.7		26.2		149.7		-		25.3	
13	Priya Sweet Corn (C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 20 (Contd.)

Sl No	PEDIGREE	COB WEIGHT WITHOUT HUSK % SUPERIORITY OVER THE Priya Sweet Corn (C)																		CWZ ZN 5		OV'L	
										PZ(ZN 4)													
		HYDE	R	KARI	R	DHAR	R	MAND	R	COIM	R	RAHU	R	MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	MEAN	R	MEAN	R
1	BSCH 6	-		68.5		14.9		60.7		72.7		45.7		63.5		103.8		-		48.8		123.5		103.8		55.9		51.3	
2	ASKH 4	-		105.1		-		76.8		31		51		57.1		100.9		-		18.9		49.7		96.2		32.9		46.9	
3	Madhula	-		105.6		1.6		58.4		7		47.1		41.8		37		-		17.1		110.7		3.8		23.5		47.9	
4	BIO 4043	-		186.2		1.2		4.2		50.4		45.7		53.5		91.1		-		44.3		25.5		51.9		35.8		47.9	
5	MITHAS	-		120.8		22.4		29.6		76.9		38.7		61.6		104.3		-		54		177.2		53.8		52.8		68.1	
6	FSCH 55*	-		6.1		-		32.2		10.5		11.8		16.3		88.1		-		-		53		-		18.3		12.0	
7	ASKH 6	-		114.4		13.1		23.4		38.9		30.9		42.4		100.9		-		15.1		75.8		23.1		25.6		36.7	
8	FSCH 75	-		105.8		-		60		75.1		52.3		70.2		91.1		-		5.2		128.9		50		33		47.5	
9	FSCH 91	-		119.6		31.9		61.2		44.2		-		48.7		58.3		-		19.8		135.6		96.2		35.5		38.6	
10	VEHS-16-1	-		91.5		16.1		-		36		45.1		34.4		84.3		-		-		89.3		61.5		23.6		36.4	
	CHECKS																											-	
11	Misthi (C)	-		178.4		61.4		69.3		88		31.6		83		79.6		-		47.4		164.4		153.8		58.7		67.1	
12	Madhuri Sweet Corn (C)	-		4.5		-		13.5		9.6		13.6		10.9		109.8		-		-		17.4		-		18.2		17.2	
13	Priya Sweet Corn (C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 20 (Contd.)

S.No.	PEDIGREE	TSS (%) ALMO	BAJA	KANG	IMPH	ZN 1 Mean	LUDH	KARN	DELH	KANP	PANT	ZN 2 Mean	DHOL	BHUB	RANC	VARA	BAHR	KALY	SABO	ZN 3 Mean
1	BSCH 6	7.9	11.8	4.1	2.7	6.6	12.6	12.5	10.9	10.4	9.6	11.2	5.1	8.4	9.0	3.1	7.7	9.1	9.9	7.5
2	ASKH 4	7.3	8.7	5.1	3.8	6.2	13.6	11.0	10.4	11.3	11.1	11.5	4.2	7.0	12.9	5.4	8.5	10.1	9.3	8.8
3	Madhula	9.3	13.0	3.8	3.4	7.4	12.9	13.2	13.2	11.2	9.9	12.1	4.3	6.4	12.3	3.7	10.8	10.2	7.9	8.7
4	BIO 4043	9.1	12.3	3.6	3.5	7.1	14.7	8.1	7.9	9.8	11.1	10.3	5.1	8.3	10.0	2.8	12.6	10.2	9.7	8.8
5	MITHAS	11.2	14.4	4.7	4.4	8.7	16.1	11.0	16.6	11.1	11.5	13.3	4.5	9.4	9.7	3.4	6.3	12.3	11.2	8.2
6	FSCH 55*	6.1	7.9	2.5	1.6	4.5	7.9	8.6	4.7	9.8	9.1	8.0	4.7	7.3	3.8	3.6	6.5	6.1	5.1	5.5
7	ASKH 6	7.6	9.6	2.5	4.1	5.9	11.6	11.7	8.1	10.6	10.7	10.5	4.8	6.4	9.5	5.8	5.7	10.4	5.4	7.5
8	FSCH 75	9.8	11.4	4.4	3.1	7.2	14.0	6.8	9.0	11.7	10.3	10.4	3.6	7.0	8.0	4.1	7.2	11.4	8.2	7.5
9	FSCH 91	8.8	10.1	3.3	3.4	6.4	12.8	8.7	11.5	11.4	9.3	10.7	5.3	7.0	10.3	3.2	5.8	8.2	8.5	6.9
10	VEHS-16-1	7.5	8.6	4.3	3.1	5.9	12.3	8.9	11.1	10.7	10.9	10.8	4.6	8.4	5.6	4.6	7.6	10.4	7.7	7.3
	CHECKS																			
11	Misthi (C)	10.3	13.1	3.7	3.7	7.7	15.1	12.4	12.3	9.8	12.1	12.3	4.1	7.6	13.3	6.9	9.1	10.1	9.6	9.4
12	Madhuri Sweet Corn (C)	6.1	7.7	2.6	1.7	4.5	7.6	10.0	5.9	12.1	11.4	9.4	3.9	5.7	7.1	2.9	7.7	8.7	4.6	6.4
13	Priya Sweet Corn (C)	5.6	6.9	1.4	1.6	3.9	7.6	7.3	5.0	11.7	9.9	8.3	4.3	7.6	5.0	2.7	6.1	3.5	4.9	5.0
	Loc. Mean	**8.2**	**10.4**	**3.5**	**3.1**	**6.3**	**12.2**	**10.0**	**9.7**	**10.9**	**10.5**	**10.7**	**4.5**	**7.4**	**9.0**	**4.0**	**7.8**	**9.3**	**7.8**	**7.5**
	C.D. (5%)	1.77	0.93	0.36	0.37	1.46	2.31	0.85	1.21	0.45	1.49	2.43	1.75	0.57	2.77	0.66	1.18	2.80	2.82	2.24
	C.V. (%)	12.78	5.30	6.13	7.19	16.11	11.22	5.01	7.38	2.45	8.39	17.90	23.00	4.54	18.39	9.79	8.94	17.91	21.31	23.51
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.01

TABLE No. 20 (Contd.)

S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	COIM	RAHU	ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	ZN 5 Mean	OV'L Mean
1	BSCH 6	7.5	6.5	11.0	11.1	16.7	7.0	10.3	16.0	11.5	22.9	11.1	3.5	13.0	9.8
2	ASKH 4	8.9	7.9	8.5	12.2	12.7	7.2	10.0	15.7	10.4	18.3	7.4	3.4	11.1	9.6
3	Madhula	9.1	7.9	9.7	10.9	10.3	7.1	9.0	10.7	10.8	18.0	10.5	1.8	10.4	9.6
4	BIO 4043	9.8	11.0	9.7	7.2	14.5	7.0	9.9	15.0	10.7	22.2	6.2	2.6	11.4	9.6
5	MITHAS	10.9	8.5	11.7	8.9	17.1	6.7	10.3	16.0	7.9	23.7	13.8	2.7	12.8	10.8
6	FSCH 55*	8.9	4.1	9.3	9.1	10.7	5.4	7.3	14.7	11.1	15.2	7.6	1.2	10.0	7.2
7	ASKH 6	8.8	8.2	10.8	8.5	13.4	6.3	9.1	15.7	8.3	17.7	8.7	2.1	10.5	8.8
8	FSCH 75	8.4	7.9	9.2	11.0	16.9	7.3	10.8	15.0	10.5	16.2	11.4	2.6	11.1	9.4
9	FSCH 91	7.5	8.4	12.6	11.1	13.9	4.5	9.5	12.4	10.5	18.4	11.7	3.4	11.3	9.1
10	VEHS-16-1	7.3	7.3	11.1	6.9	13.1	7.0	8.6	14.4	9.7	15.2	9.4	2.8	10.3	8.7
	CHECKS														
11	Misthi (C)	10.6	10.7	15.4	11.7	18.2	6.3	11.7	14.1	11.6	22.7	13.1	4.4	13.2	11.0
12	Madhuri Sweet Corn (C)	7.7	4.0	6.9	7.8	10.6	5.5	7.0	16.4	10.6	15.2	5.8	1.6	9.9	7.6
13	Priya Sweet Corn (C)	12.5	3.8	9.5	6.9	9.7	4.8	6.3	7.8	12.0	15.4	5.0	1.7	8.4	6.5
	Loc. Mean	**9.1**	**7.4**	**10.4**	**9.5**	**13.7**	**6.3**	**9.2**	**14.2**	**10.4**	**18.6**	**9.4**	**2.6**	**11.0**	**9.0**
	C.D. (5%)	4.18	1.43	4.16	1.06	0.78	1.67	2.38	0.48	1.19	1.92	1.64	0.49	2.67	0.98
	C.V. (%)	27.38	11.52	23.71	6.62	3.39	15.74	18.00	2.02	6.79	6.14	10.41	11.26	19.03	18.72
	F (Prob)	0.36	0.00	0.05	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00

TABLE No. 20 (Contd.)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) NHZ(ZN 1) ALMO	BAJA	KANG	IMPH	Mean	LUDH	KARN	DELH	KANP	PANT	NWPZ ZN 2 Mean	DHOL	BHUB	RANC	VARA	BAHR	KALY	SABO	NEPZ ZN 3 Mean
1	BSCH 6	63.0	81.1	75.0	25.7	73.0	68.1	62.2	59.7	78.1	64.4	66.5	56.9	59.7	63.4	62.2	59.4	80.6	63.2	63.7
2	ASKH 4	64.4	76.1	73.6	38.0	71.4	70.5	63.3	62.2	78.1	65.6	67.9	55.0	56.6	67.9	58.3	62.8	76.7	60.1	62.9
3	Madhula	64.4	77.2	79.2	36.0	73.6	70.8	61.1	62.5	77.4	63.0	67.0	51.1	60.1	60.7	52.8	65.6	85.4	45.1	62.6
4	BIO 4043	60.6	71.1	72.9	38.7	68.2	71.9	63.3	61.7	78.5	63.3	67.7	56.4	57.3	58.6	63.9	63.9	82.3	60.8	63.7
5	MITHAS	62.5	72.8	73.6	41.0	69.6	66.7	61.4	60.8	78.8	64.1	66.4	56.9	64.2	67.3	62.8	64.2	85.4	49.0	66.8
6	FSCH 55*	48.1	72.2	72.2	21.0	64.2	56.9	61.4	60.3	77.4	59.3	63.1	55.0	64.2	47.6	52.1	61.8	82.6	45.1	60.6
7	ASKH 6	59.3	71.1	75.7	31.3	68.7	55.2	62.5	61.4	79.5	61.9	64.1	61.1	62.5	62.5	58.0	61.8	82.6	32.3	64.8
8	FSCH 75	58.3	75.6	77.8	32.3	70.6	64.2	61.4	60.3	79.2	62.2	65.5	58.3	61.5	58.0	55.9	67.0	83.3	46.9	64.0
9	FSCH 91	63.0	76.7	76.4	42.7	72.0	77.8	62.2	61.7	77.8	63.7	68.6	53.1	62.2	68.2	61.5	65.6	87.8	70.5	66.4
10	VEHS-16-1	64.8	72.8	74.3	36.3	70.6	73.6	62.2	64.2	79.5	61.9	68.3	58.1	63.9	68.8	60.1	63.9	87.5	55.6	67.0
	CHECKS																			
11	Misthi (C)	62.5	72.8	71.5	38.7	68.9	68.1	61.4	64.4	76.4	61.1	66.3	56.7	60.8	67.3	62.8	60.4	79.9	55.2	64.6
12	Madhuri Sweet Corn (C)	61.1	75.6	75.0	37.0	70.6	64.6	62.5	63.3	79.9	64.1	66.9	52.2	57.3	61.0	58.0	59.4	79.2	58.3	61.2
13	Priya Sweet Corn (C)	56.5	69.4	71.5	31.3	65.8	71.2	60.8	60.0	76.7	63.3	66.4	49.2	63.5	56.8	61.8	67.7	81.6	56.9	63.4
	Loc. Mean	**60.6**	**74.2**	**74.5**	**34.6**	**69.8**	**67.7**	**62.0**	**61.7**	**78.3**	**62.9**	**66.5**	**55.4**	**61.1**	**62.2**	**59.2**	**63.4**	**82.7**	**53.8**	**64.0**
	C.D. (5%)	5.70	3.79	5.16	13.22	4.53	12.14	2.12	3.22	1.84	2.55	3.71	8.29	3.94	7.98	4.17	5.09	8.27	18.97	4.12
	C.V. (%)	5.58	3.03	4.11	22.67	3.86	10.65	2.03	3.09	1.40	2.41	4.39	8.88	3.83	7.62	4.17	4.77	5.94	20.94	5.58
	F (Prob)	0.00	0.00	0.12	0.10	0.01	0.04	0.31	0.07	0.01	0.00	0.16	0.27	0.00	0.00	0.00	0.03	0.27	0.04	0.06

TABLE No. 20 (Contd.)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) HYDE	KARI	DHAR	MAND	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ ZN 5 Mean	OV'L Mean
1	BSCH 6	43.9	51.1	53.1	64.9	66.3	57.6	56.2	63.3	60.1	80.2	77.1	35.6	63.3	63.5
2	ASKH 4	41.7	55.8	64.9	65.3	66.0	59.0	58.8	60.6	62.5	78.1	62.2	39.4	60.5	63.6
3	Madhula	51.1	46.7	59.7	63.9	66.7	55.9	57.3	64.0	62.5	73.6	74.0	45.8	64.0	63.8
4	BIO 4043	51.7	55.8	62.5	64.9	66.0	55.2	59.4	59.8	62.2	76.7	56.3	44.0	59.8	63.4
5	MITHAS	56.1	56.9	56.3	65.3	65.6	61.1	60.2	69.0	63.5	80.6	82.6	49.1	69.0	65.8
6	FSCH 55*	44.2	40.8	56.3	68.1	66.3	51.7	54.6	59.0	61.8	69.8	62.2	42.1	59.0	59.8
7	ASKH 6	37.8	54.7	61.5	67.7	66.0	48.6	56.0	59.3	62.2	73.6	66.3	35.2	59.3	62.0
8	FSCH 75	36.7	48.3	59.7	65.3	65.3	62.5	56.3	56.8	60.8	56.3	76.4	33.8	56.8	62.0
9	FSCH 91	51.7	58.3	69.8	63.9	66.3	50.7	60.1	66.8	60.8	79.9	77.8	48.6	66.8	66.0
10	VEHS-16-1	57.2	56.7	75.7	67.4	66.0	72.9	66.0	64.7	62.5	79.2	67.7	49.5	64.7	67.1
	CHECKS														
11	Misthi (C)	53.9	61.4	70.1	64.2	66.0	59.0	62.4	63.7	61.5	80.6	80.2	32.4	63.7	64.8
12	Madhuri Sweet Corn (C)	55.0	48.1	71.2	65.6	66.0	47.9	59.0	57.5	60.4	76.4	54.2	38.9	57.5	62.4
13	Priya Sweet Corn (C)	55.8	46.7	67.0	63.9	66.3	57.6	59.6	59.6	61.5	82.6	50.7	43.5	59.6	62.7
	Loc. Mean	**49.0**	**52.4**	**63.7**	**65.4**	**66.1**	**56.9**	**58.9**	**61.9**	**61.7**	**76.0**	**68.3**	**41.4**	**61.8**	**63.6**
	C.D. (5%)	9.58	4.29	11.49	3.53	1.13	14.22	5.77	0.00	4.08	7.86	4.91	5.22	9.88	2.52
	C.V. (%)	11.60	4.86	10.70	3.20	1.01	14.82	8.48	0.00	3.92	6.14	4.27	7.48	11.14	6.98
	F (Prob)	0.00	0.00	0.01	0.22	0.62	0.09	0.02	0.48	0.89	0.00	0.00	0.00	0.36	0.00

TABLE No. 20 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED																		
						ZN 1						NWPZ ZN 2								NEPZ ZN 3
		ALMO	BAJA	KANG	IMPH	Mean	LUDH	KARN	DELH	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	KALY	SABO	Mean
1	BSCH 6	59.0	54.0	54.7	59.7	56.8	50.0	48.3	47.0	50.3	49.7	49.1	55.7	53.7	51.0	57.7	52.3	56.0	51.0	53.9
2	ASKH 4	57.3	55.0	50.7	58.7	55.4	49.3	47.7	48.3	49.0	50.3	48.9	56.0	53.0	49.0	53.0	55.3	57.3	51.0	53.5
3	Madhula	56.7	52.0	48.7	57.7	53.8	47.7	46.3	45.0	50.7	49.7	47.9	55.0	50.0	49.3	53.7	55.7	56.7	50.7	53.0
4	BIO 4043	61.7	54.7	54.7	61.7	58.2	50.0	50.7	50.3	47.7	51.0	49.9	57.3	54.0	52.7	54.0	58.0	55.7	51.0	54.7
5	MITHAS	58.7	54.7	50.7	59.3	55.8	49.7	47.7	47.3	49.3	50.3	48.9	56.7	53.7	53.3	54.0	55.7	56.3	51.3	54.4
6	FSCH 55*	59.0	53.7	50.7	61.0	56.1	47.0	47.0	44.3	47.3	48.3	46.8	57.0	53.0	52.0	54.3	58.3	56.3	54.0	55.0
7	ASKH 6	57.0	53.7	50.3	57.0	54.5	49.7	45.0	46.7	51.3	49.0	48.3	56.7	52.7	45.7	52.0	53.7	55.3	51.0	52.4
8	FSCH 75	57.7	53.3	51.0	56.7	54.7	49.7	48.3	46.3	51.0	50.3	49.1	55.7	55.0	49.7	51.7	53.7	56.7	51.7	53.4
9	FSCH 91	55.0	48.0	47.0	51.0	50.3	46.0	46.0	42.7	50.7	45.0	46.1	54.0	47.0	45.7	47.3	46.7	55.7	46.3	49.0
10	VEHS-16-1	52.7	50.3	48.0	50.7	50.4	45.7	45.7	42.0	49.3	47.3	46.0	55.0	49.0	45.3	47.0	48.7	52.3	46.3	49.1
	CHECKS																			
11	Misthi (C)	58.7	54.3	54.0	59.7	56.7	50.0	49.0	49.0	52.0	49.3	49.9	57.7	55.0	50.0	52.7	57.0	56.7	51.7	54.4
12	Madhuri Sweet Corn (C)	56.0	52.0	46.0	54.3	52.1	48.0	47.7	45.7	49.3	47.3	47.6	54.3	49.0	46.7	49.7	49.7	56.0	46.3	50.2
13	Priya Sweet Corn (C)	55.3	50.3	49.3	51.3	51.6	47.0	47.7	43.7	50.0	47.7	47.2	56.0	51.0	45.7	48.3	54.0	57.0	46.3	51.2
	Loc. Mean	**57.3**	**52.8**	**50.4**	**56.8**	**54.3**	**48.4**	**47.5**	**46.0**	**49.8**	**48.9**	**48.1**	**55.9**	**52.0**	**48.9**	**51.9**	**53.7**	**56.0**	**49.9**	**52.6**
	C.D. (5%)	1.63	1.43	1.41	2.77	2.00	2.50	2.54	1.87	1.22	2.55	1.66	3.52	1.50	3.19	1.94	3.76	3.29	1.42	1.73
	C.V. (%)	1.69	1.60	1.66	2.89	2.56	3.07	3.18	2.41	1.45	3.10	2.71	3.74	1.71	3.87	2.21	4.15	3.49	1.69	3.09
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.33	0.00	0.00

TABLE No. 20 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED						PZ ZN 4 Mean						CWZ ZN 5 Mean	OV'L Mean
		HYDE	KARI	DHAR	MAND	COIM	RAHU		UDAI	BANS	CHHI	AMBI	GODH		
1	BSCH 6	64.0	57.3	58.3	53.3	47.3	60.7	56.8	58.7	50.7	59.3	53.7	54.0	55.3	54.3
2	ASKH 4	59.0	56.7	57.7	51.7	48.3	56.7	55.0	58.3	49.0	57.3	50.7	52.3	53.5	53.3
3	Madhula	57.7	53.7	57.3	50.0	45.3	59.0	53.8	55.0	50.0	57.3	50.7	51.0	52.8	52.3
4	BIO 4043	62.3	56.3	61.0	54.7	51.7	60.7	57.8	58.0	49.3	60.3	52.7	55.0	55.1	55.1
5	MITHAS	61.3	57.3	59.3	52.0	47.7	59.0	56.1	60.0	49.7	58.3	49.7	53.3	54.2	53.9
6	FSCH 55*	55.3	55.7	59.0	49.3	43.7	56.3	53.2	54.0	48.0	56.0	46.3	50.7	51.0	52.5
7	ASKH 6	57.0	54.7	56.7	50.7	46.7	56.7	53.7	57.0	50.0	55.3	50.7	52.7	53.1	52.4
8	FSCH 75	57.7	55.0	56.3	52.0	47.0	57.7	54.3	58.0	50.0	57.7	52.7	51.0	53.9	53.1
9	FSCH 91	56.3	52.0	57.0	49.3	43.3	56.0	52.3	54.3	49.7	54.3	46.7	49.0	50.8	49.7
10	VEHS-16-1	56.0	52.3	55.7	48.0	43.0	55.0	51.7	54.3	48.7	52.3	46.0	50.3	50.3	49.5
	CHECKS														
11	Misthi (C)	61.3	57.0	56.7	51.3	49.0	61.3	56.1	58.3	50.0	58.0	53.7	53.3	54.7	54.3
12	Madhuri Sweet Corn (C)	54.7	54.0	57.7	48.7	44.3	57.7	52.8	55.0	49.7	54.7	48.7	51.0	51.8	50.9
13	Priya Sweet Corn (C)	54.0	52.7	58.0	49.3	43.3	59.0	52.7	53.0	50.3	56.0	48.7	50.3	51.7	50.9
	Loc. Mean	**58.2**	**55.0**	**57.7**	**50.8**	**46.2**	**58.1**	**54.3**	**56.5**	**49.6**	**56.7**	**50.1**	**51.8**	**52.9**	**52.5**
	C.D. (5%)	2.14	1.26	3.24	1.67	0.97	3.27	1.55	0.89	2.12	0.99	1.26	2.90	1.63	0.81
	C.V. (%)	2.18	1.36	3.33	1.95	1.25	3.34	2.48	0.94	2.54	1.03	1.49	3.32	2.42	2.88
	F (Prob)	0.00	0.00	0.14	0.00	0.00	0.01	0.00	0.00	0.50	0.00	0.00	0.01	0.00	0.00

TABLE No. 20 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% SILKING																		
						ZN 1	NWPZ ZN 2													NEPZ ZN 3
		ALMO	BAJA	KANG	IMPH	Mean	LUDH	KARN	DELH	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	KALY	SABO	Mean
1	BSCH 6	59.7	56.0	58.3	63.7	59.4	50.7	50.3	49.3	53.7	52.7	51.3	58.3	57.3	55.7	65.0	54.7	58.0	55.0	57.7
2	ASKH 4	58.7	57.0	54.3	63.7	58.4	50.3	49.7	50.7	53.3	53.7	51.5	59.0	56.3	53.0	57.0	57.3	59.3	56.7	57.0
3	Madhula	56.3	54.7	52.7	62.3	56.5	49.0	48.3	48.3	53.7	53.3	50.5	58.0	53.0	53.3	59.7	57.7	58.7	55.0	56.5
4	BIO 4043	62.7	56.7	58.3	65.3	60.8	51.3	52.7	53.3	50.7	54.3	52.5	59.3	57.0	57.3	60.3	60.0	58.0	56.0	58.3
5	MITHAS	58.7	56.7	54.7	63.0	58.3	51.0	49.7	50.0	53.3	53.7	51.5	60.0	57.3	57.3	60.7	57.7	59.0	55.3	58.2
6	FSCH 55*	59.7	56.0	54.7	64.0	58.6	49.0	49.0	48.7	51.3	50.7	49.7	60.3	56.0	56.7	59.7	60.3	58.7	57.3	58.4
7	ASKH 6	57.0	56.0	54.3	61.3	57.2	50.3	47.0	49.3	54.7	52.0	50.7	59.0	56.0	50.0	56.0	55.7	58.0	53.7	55.5
8	FSCH 75	58.7	55.7	55.0	61.0	57.6	50.3	50.3	48.7	54.0	53.3	51.3	59.0	58.0	54.3	58.0	55.7	58.7	55.3	57.0
9	FSCH 91	56.0	50.7	50.3	56.3	53.3	47.7	48.0	45.7	54.0	48.0	48.7	57.0	50.0	48.7	53.7	48.7	58.0	50.3	52.3
10	VEHS-16-1	54.3	53.0	52.0	55.3	53.7	48.3	47.7	45.7	53.7	50.3	49.1	57.0	53.0	49.3	53.7	50.7	54.7	53.3	53.1
	CHECKS																			
11	Misthi (C)	59.7	56.3	58.0	64.7	59.7	50.7	51.0	52.3	55.0	52.3	52.3	60.3	58.0	54.3	58.3	59.0	59.3	56.3	58.0
12	Madhuri Sweet Corn (C)	56.3	54.3	49.7	59.0	54.8	49.3	49.7	49.3	53.0	51.0	50.5	57.0	52.0	51.3	58.0	51.7	59.0	51.3	54.3
13	Priya Sweet Corn (C)	56.0	53.0	53.0	57.3	54.8	49.0	49.7	47.3	53.3	50.3	49.9	58.0	54.0	50.0	55.0	56.0	59.0	51.7	54.8
	Loc. Mean	**58.0**	**55.1**	**54.3**	**61.3**	**57.2**	**49.8**	**49.5**	**49.1**	**53.4**	**52.0**	**50.7**	**58.6**	**55.2**	**53.2**	**58.1**	**55.8**	**58.3**	**54.4**	**56.2**
	C.D. (5%)	1.27	1.53	1.26	2.94	1.81	2.08	2.54	1.78	1.22	2.74	1.62	3.79	1.50	2.89	2.63	3.82	3.32	2.19	1.80
	C.V. (%)	1.30	1.65	1.37	2.84	2.21	2.48	3.05	2.15	1.36	3.13	2.52	3.84	1.61	3.23	2.69	4.07	3.38	2.39	3.00
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.38	0.00	0.00

TABLE No. 20 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% SILKING						PZ ZN 4 Mean						CWZ ZN 5 Mean	OV'L Mean
		HYDE	KARI	DHAR	MAND	COIM	RAHU		UDAI	BANS	CHHI	AMBI	GODH		
1	BSCH 6	65.7	58.7	59.3	56.0	50.0	61.7	58.6	60.3	53.7	59.3	55.7	56.0	57.0	56.8
2	ASKH 4	60.7	58.0	59.0	54.0	50.7	57.7	56.7	59.7	52.0	58.0	52.7	55.3	55.5	55.8
3	Madhula	59.7	55.3	58.3	53.7	49.0	60.0	56.0	56.7	53.0	57.3	52.7	53.0	54.5	54.9
4	BIO 4043	64.3	58.0	61.0	57.0	54.7	62.0	59.5	59.3	52.3	61.3	54.7	57.0	56.9	57.6
5	MITHAS	63.3	58.0	59.3	53.7	50.7	60.0	57.5	61.0	52.7	58.3	51.7	56.3	56.0	56.4
6	FSCH 55*	57.0	57.7	59.3	51.0	48.3	57.7	55.2	56.3	51.0	56.0	48.3	52.7	52.9	55.1
7	ASKH 6	59.0	55.3	58.0	51.7	49.3	58.3	55.3	59.0	53.0	55.3	52.7	54.7	54.9	54.7
8	FSCH 75	59.7	56.0	58.0	54.7	50.0	58.7	56.2	60.3	53.0	57.7	54.7	53.0	55.7	55.6
9	FSCH 91	58.3	53.0	58.0	51.0	46.7	57.3	54.1	56.0	52.7	54.3	49.0	51.0	52.6	52.2
10	VEHS-16-1	57.7	53.7	56.7	50.0	47.0	56.0	53.5	55.7	51.7	52.3	48.3	51.7	51.9	52.3
	CHECKS														
11	Misthi (C)	63.0	57.3	57.3	55.3	52.3	62.3	57.9	60.3	53.0	60.0	55.7	56.3	57.1	57.0
12	Madhuri Sweet Corn (C)	56.7	54.7	58.3	51.3	48.3	59.0	54.7	56.3	52.7	55.0	50.7	53.0	53.5	53.6
13	Priya Sweet Corn (C)	55.7	54.3	58.0	51.0	47.0	60.3	54.4	55.3	53.3	56.0	50.7	51.7	53.4	53.6
	Loc. Mean	**60.1**	**56.2**	**58.5**	**53.1**	**49.5**	**59.3**	**56.1**	**58.2**	**52.6**	**57.0**	**52.1**	**54.0**	**54.8**	**55.1**
	C.D. (5%)	2.30	1.42	3.27	2.53	1.01	3.36	1.50	1.11	2.12	1.04	1.43	3.34	1.62	0.79
	C.V. (%)	2.27	1.50	3.32	2.82	1.21	3.36	2.32	1.13	2.39	1.08	1.63	3.67	2.33	2.69
	F (Prob)	0.00	0.00	0.51	0.00	0.00	0.01	0.00	0.00	0.50	0.00	0.00	0.01	0.00	0.00

TABLE No. 20 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm)				NHZ ZN 1						NWPZ ZN 2							NEPZ ZN 3
		ALMO	BAJA	KANG	IMPH	Mean	LUDH	KARN	DELH	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	KALY	SABO	Mean
1	BSCH 6	206.7	171.7	166.0	182.2	181.6	168.3	141.3	181.7	174.7	252.3	183.7	100.0	138.0	161.9	136.7	141.6	166.8	143.0	141.1
2	ASKH 4	231.7	175.0	215.3	200.3	205.6	181.7	164.3	228.3	177.3	280.7	206.5	108.3	141.0	172.3	173.3	171.3	179.9	168.7	159.3
3	Madhula	226.7	173.3	198.3	175.9	193.6	166.7	160.7	204.7	165.7	259.0	191.3	113.3	139.7	164.4	161.7	163.6	194.3	152.7	155.7
4	BIO 4043	216.7	181.7	202.7	169.6	192.7	166.7	141.0	207.7	179.0	246.0	188.1	112.3	144.3	148.8	153.3	165.5	177.6	145.3	149.6
5	MITHAS	240.0	176.7	215.0	168.5	200.0	171.7	160.3	211.3	170.3	258.3	194.4	110.0	142.3	178.8	166.7	158.1	206.4	159.0	160.2
6	FSCH 55*	205.0	158.3	199.3	162.3	181.2	168.3	151.3	188.0	171.7	236.7	183.2	86.7	144.0	146.9	140.0	136.6	163.1	135.7	136.1
7	ASKH 6	241.7	178.3	199.3	217.2	209.1	188.3	175.3	224.7	179.0	291.0	211.7	116.7	145.3	180.6	185.0	174.8	196.6	161.3	165.8
8	FSCH 75	225.0	165.0	205.0	192.5	196.9	175.0	150.3	218.7	178.0	267.7	197.9	106.7	144.3	174.1	161.7	162.9	185.1	152.3	155.3
9	FSCH 91	226.7	155.0	187.3	181.3	187.6	171.7	136.7	207.0	165.0	250.3	186.1	96.0	139.0	155.1	166.7	166.2	184.6	144.7	150.3
10	VEHS-16-1	221.7	160.0	171.3	167.8	180.2	166.7	147.7	173.3	169.7	225.0	176.5	98.3	142.0	152.4	150.0	190.8	196.0	122.0	150.2
	CHECKS																			
11	Misthi (C)	226.7	175.0	214.3	176.7	198.2	178.3	169.3	210.7	168.7	260.0	197.4	106.7	139.0	144.8	163.3	167.8	177.8	151.0	150.1
12	Madhuri Sweet Corn (C)	195.0	185.0	206.7	164.6	187.8	176.7	153.3	198.0	171.7	243.3	188.6	112.3	139.7	157.1	158.3	146.1	184.9	133.0	147.3
13	Priya Sweet Corn (C)	193.3	158.3	175.0	147.3	168.5	158.3	154.3	186.7	168.0	229.3	179.3	88.3	147.3	120.3	143.3	143.5	184.1	107.3	133.5
	Loc. Mean	**219.7**	**170.3**	**196.6**	**177.4**	**191.0**	**172.2**	**154.3**	**203.1**	**172.2**	**253.8**	**191.1**	**104.3**	**142.0**	**158.3**	**158.5**	**160.7**	**184.4**	**144.3**	**150.3**
	C.D. (5%)	11.58	14.75	8.42	20.36	17.17	20.97	20.00	11.06	6.25	29.63	11.50	14.98	5.37	21.96	16.68	11.02	13.63	19.83	10.74
	C.V. (%)	3.13	5.14	2.54	6.81	6.27	7.23	7.69	3.23	2.15	6.93	4.73	8.52	2.24	8.23	6.25	4.07	4.39	8.15	6.70
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.35	0.02	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 20 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) HYDE	KARI	DHAR	MAND	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ ZN 5 Mean	OV'L Mean
1	BSCH 6	134.0	106.0	245.7	176.7	164.1	159.7	164.3	190.0	173.3	179.3	204.9	129.3	175.4	166.5
2	ASKH 4	167.0	130.7	218.0	193.3	176.6	159.7	174.2	186.7	165.0	176.0	212.7	148.7	177.8	181.6
3	Madhula	163.3	123.0	245.3	186.7	158.7	153.3	171.7	151.7	170.0	171.7	206.1	143.7	168.6	173.9
4	BIO 4043	155.0	116.3	220.0	193.3	194.7	148.7	171.3	186.7	173.3	178.3	189.7	120.3	169.7	171.7
5	MITHAS	160.0	106.7	213.0	203.3	188.8	165.3	172.9	186.7	173.3	180.3	211.5	128.3	176.0	178.2
6	FSCH 55*	163.7	98.3	229.0	196.3	167.0	139.0	165.6	160.0	166.7	174.3	192.6	131.7	165.1	163.4
7	ASKH 6	182.0	141.3	228.3	207.3	186.5	165.7	185.2	185.0	171.7	188.0	221.1	144.3	182.0	188.0
8	FSCH 75	147.0	113.7	230.3	197.7	184.3	162.3	172.5	175.0	170.0	182.0	216.5	131.0	174.9	176.8
9	FSCH 91	151.3	109.0	224.0	191.7	150.6	150.7	162.9	155.0	171.7	180.0	204.8	130.0	168.3	168.6
10	VEHS-16-1	152.7	106.0	220.3	179.7	148.0	160.0	161.1	163.3	166.7	158.7	186.3	124.0	159.8	163.7
	CHECKS														
11	Misthi (C)	167.0	121.7	220.0	208.0	181.8	162.3	176.8	178.3	171.7	174.3	223.4	127.0	174.9	176.5
12	Madhuri Sweet Corn (C)	175.7	106.7	228.3	177.0	179.1	138.0	167.5	176.7	166.7	171.7	198.8	140.7	170.9	169.8
13	Priya Sweet Corn (C)	141.7	90.0	232.0	174.3	145.4	142.0	154.2	148.3	171.7	154.3	172.2	119.0	153.1	155.4
	Loc. Mean	**158.5**	**113.0**	**227.3**	**191.2**	**171.2**	**154.4**	**169.3**	**172.6**	**170.1**	**174.5**	**203.1**	**132.2**	**170.5**	**171.9**
	C.D. (5%)	23.20	13.71	25.53	22.82	8.45	16.93	12.65	7.24	13.91	16.49	11.56	15.46	11.35	5.35
	C.V. (%)	8.69	7.20	6.67	7.08	2.93	6.51	6.47	2.49	4.85	5.61	3.38	6.94	5.24	5.82
	F (Prob)	0.01	0.00	0.30	0.05	0.00	0.01	0.00	0.00	0.96	0.02	0.00	0.01	0.00	0.00

TABLE No. 20 (Contd.)

		EAR HEIGHT(cm)				NHZ						NWPZ							NEPZ
						ZN 1						ZN 2							ZN 3
S.No.	PEDIGREE	ALMO	BAJA	KANG	IMPH	Mean	LUDH	KARN	DELH	KANP	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	KALY	SABO	Mean
1	BSCH 6	108.3	107.5	83.0	75.7	93.6	75.0	67.3	85.3	76.7	87.7	81.2	50.7	51.3	58.0	71.7	41.7	44.9	60.0	54.0
2	ASKH 4	130.0	115.0	117.0	97.2	114.8	95.0	77.3	115.3	76.7	118.0	101.3	55.3	50.0	76.0	105.0	77.2	59.8	81.7	72.1
3	Madhula	93.3	90.0	84.3	78.3	86.5	63.3	64.0	80.0	70.0	99.3	78.2	57.7	48.7	55.3	75.0	53.3	54.3	62.0	58.0
4	BIO 4043	111.7	115.0	91.0	71.1	97.2	85.0	60.7	106.3	69.0	87.0	86.8	56.0	48.3	54.7	81.7	70.4	65.6	60.3	62.4
5	MITHAS	103.3	87.5	94.3	74.1	89.8	70.0	64.0	83.3	71.7	85.7	77.7	54.3	46.3	63.7	73.3	55.2	58.3	60.3	58.8
6	FSCH 55*	83.3	72.5	86.0	62.3	76.0	85.0	82.0	91.0	75.0	89.7	85.2	43.3	50.7	38.5	61.7	60.1	42.6	43.3	48.6
7	ASKH 6	136.7	105.0	99.3	98.9	110.0	90.0	77.0	109.3	68.0	124.0	97.8	56.3	55.3	73.5	101.7	67.3	81.0	68.3	71.9
8	FSCH 75	98.3	80.0	89.7	73.3	85.3	81.7	51.7	82.3	81.7	83.3	82.3	53.7	51.3	54.5	70.0	44.5	44.6	54.3	53.3
9	FSCH 91	103.3	82.5	83.7	78.3	86.9	73.3	58.0	88.0	68.0	77.7	76.8	46.7	50.3	54.2	68.3	51.3	47.6	53.0	53.1
10	VEHS-16-1	125.0	92.5	95.0	82.9	98.9	76.7	68.3	77.0	69.0	79.7	75.6	47.7	49.0	59.2	75.0	70.4	64.6	57.0	60.4
	CHECKS																			
11	Misthi (C)	123.3	122.5	103.3	82.1	107.8	91.7	76.3	112.0	70.0	96.7	92.6	52.3	51.7	45.7	88.3	68.8	63.6	62.7	61.9
12	Madhuri Sweet Corn (C)	96.7	115.0	105.0	80.4	99.3	76.7	62.0	109.7	66.0	85.0	84.3	55.0	52.3	59.1	85.0	74.0	67.6	59.0	64.6
13	Priya Sweet Corn (C)	88.3	95.0	82.7	75.5	85.4	85.0	90.0	77.3	66.0	89.3	79.4	43.3	51.0	35.3	76.7	48.0	60.5	43.7	51.2
	Loc. Mean	**107.8**	**98.5**	**93.4**	**79.2**	**94.7**	**80.6**	**69.1**	**93.6**	**71.4**	**92.5**	**84.5**	**51.7**	**50.5**	**56.0**	**79.5**	**60.2**	**58.1**	**58.9**	**59.3**
	C.D. (5%)	10.30	7.79	6.60	14.05	12.45	17.61	24.62	7.24	2.05	20.35	13.04	7.25	3.22	16.01	11.46	5.97	12.49	13.25	7.63
	C.V. (%)	5.67	4.70	4.19	10.52	9.16	12.96	21.13	4.59	1.70	13.05	10.75	8.32	3.78	16.98	8.55	5.89	12.77	13.35	12.08
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.04	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Locations Rejected due to High C.V.: KARNAL 21.1%: HYDERABAD 21.1%

TABLE No. 20 (Contd.)

S.No.	PEDIGREE	EAR HEIGHT(cm) HYDE	KARI	DHAR	MAND	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ ZN 5 Mean	OV'L Mean
1	BSCH 6	37.7	38.0	115.7	91.0	75.6	59.3	75.9	90.0	76.3	65.3	74.6	52.7	71.8	72.6
2	ASKH 4	59.0	47.3	90.0	101.7	84.7	64.0	77.5	70.0	70.0	81.7	77.9	64.7	72.9	84.8
3	Madhula	59.0	40.3	108.7	82.7	71.3	54.7	71.5	56.7	78.3	64.0	68.7	45.7	62.7	69.4
4	BIO 4043	56.0	38.0	93.7	107.0	96.7	52.3	77.5	91.7	78.3	76.7	67.4	51.7	73.1	77.1
5	MITHAS	54.3	32.7	90.3	94.7	82.8	55.3	71.2	88.3	68.3	75.7	71.1	43.0	69.3	71.3
6	FSCH 55*	58.7	32.0	104.3	100.3	75.6	54.3	73.3	80.0	70.0	78.3	65.6	53.7	69.5	68.0
7	ASKH 6	61.3	47.7	110.0	125.3	91.6	56.7	86.3	90.0	75.0	82.0	73.6	60.0	76.1	85.9
8	FSCH 75	43.0	32.7	103.7	85.3	69.8	55.7	69.4	86.7	73.3	83.0	71.0	39.0	70.6	69.7
9	FSCH 91	46.7	28.7	93.3	104.3	64.9	56.0	69.5	56.7	78.3	75.3	69.0	43.7	64.6	67.9
10	VEHS-16-1	56.7	42.7	104.7	102.0	66.4	54.3	74.0	76.7	70.0	66.3	64.9	53.3	66.2	72.9
	CHECKS														
11	Misthi (C)	64.0	45.7	92.7	102.3	91.8	59.3	78.4	88.3	76.7	86.7	82.6	49.0	76.7	80.4
12	Madhuri Sweet Corn (C)	66.3	36.0	104.7	91.0	79.1	50.7	72.3	86.7	70.0	83.0	71.2	49.3	72.0	76.3
13	Priya Sweet Corn (C)	46.3	28.3	94.7	94.0	67.8	52.0	67.4	63.3	76.7	63.7	59.7	46.7	62.0	66.6
	Loc. Mean	**54.5**	**37.7**	**100.5**	**98.6**	**78.3**	**55.7**	**74.2**	**78.8**	**73.9**	**75.5**	**70.6**	**50.2**	**69.8**	**74.1**
	C.D. (5%)	19.43	7.22	24.31	9.48	7.23	9.31	9.73	8.23	13.50	15.91	6.13	9.71	9.44	4.55
	C.V. (%)	21.14	11.37	14.36	5.70	5.48	9.91	10.31	6.20	10.84	12.50	5.16	11.48	10.64	11.04
	F (Prob)	0.14	0.00	0.46	0.00	0.00	0.31	0.03	0.00	0.76	0.05	0.00	0.00	0.04	0.00

TABLE No. 21 PERFORMANCE OF BABY CORN EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, IMPHAL, KARNAL, KANPUR, DELHI, PANTNAGAR, DHOLI, BHUBANESHWAR, RANCHI, VARANASI, BAHRAICH, KALYANI, SABOUR, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, COIMBATORE, RAHURI, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA IN TRIAL No. TRBABYCORN DURING KHARIF 2016

Sl No	PEDIGREE	GREEN EAR YIELD(kg/ha) ALMO	R	BAJA	R	KANG	R	IMPH	R	NHZ ZN 1 MEAN	R	KARN	R	KANP	R	DELH	R	PANT	R	NWPZ ZN 2 MEAN	R
1	IMHB 1538	3472	11	7173	7	3403	3	3931	6	4495	7	9747	7	1736	14	6356	13	9774	9	6903	12
2	IMHB 1525	4461	3	6272	12	3417	2	5451	3	4900	3	8913	12	2743	10	6486	12	12289	3	7608	8
3	IMHB 1531	3558	10	7285	5	3268	5	3889	7	4500	6	10953	3	2674	11	8100	5	8922	10	7662	7
4	AH-7043	2650	14	7434	4	3403	4	4253	5	4435	8	6340	14	2951	8	7149	10	11519	5	6990	11
5	IMHB 1539	4008	7	6032	13	3028	8	5729	2	4699	5	11340	1	2188	13	7788	6	10304	8	7905	6
6	AH-5021	4783	1	6448	10	3146	7	5920	1	5074	1	8687	13	3160	6	8479	3	7933	14	7065	10
7	IMHB 1537	3800	9	7600	2	2925	9	4965	4	4823	4	11325	2	3229	4	6785	11	10541	7	7970	5
8	GAYMH-1	3842	8	7451	3	2126	13	3694	9	4278	10	9043	10	2986	7	7328	9	8063	13	6855	13
9	IMHB 1532	4358	4	6331	11	1921	14	3524	10	4034	12	10818	4	3368	1	7614	8	8074	12	7469	9
10	IMHB 1529	4550	2	7277	6	2200	12	3299	12	4331	9	9449	8	2917	9	9829	1	11037	6	8308	3
11	BVM-2	4075	5	7952	1	5011	1	2847	13	4971	2	10432	5	3299	2	8642	2	11911	4	8571	2
12	MBC 11-15	2961	13	5826	14	2214	11	3854	8	3714	14	9071	9	2604	12	5540	14	8489	11	6426	14
13	DMRHB 1305	4047	6	6970	8	2526	10	3524	11	4267	11	10363	6	3229	5	7707	7	13459	1	8690	1
	CHECKS																				
14	HM 4(C)	3350	12	6502	9	3250	6	2292	14	3848	13	8921	11	3264	3	8389	4	12459	2	8258	4
	Location Mean	**3851**		**6897**		**2988**		**4084**		**4455**		**9672**		**2882**		**7585**		**10341**		**7620**	
	C.D. (5%)	391		1106		255		887		660		1374		312		610		2443		1185	
	C.V. (%)	7.53		9.17		4.89		16.15		-		10.56		8.05		5.98		17.56		-	
	F (Prob)	0		0.141		0		0				0		0		0		0.005			
	Plot Size	6		6		7.2		9.6		-		9.6		9.6		12		9		-	
	AGRONOMY DATA																				
	Sowing Date	4-07		30-06		24-06		16-08		-		3-07		23-07		8-07		29-06		-	
	Harvest Date	-		-		-		-		-		-		18-09		-		-		-	
	Irrigation Nos	-		3		-		-		-		5		-		-		-		-	
	Ferilizer Applied N	100		120		150		80		-		150		-		-		120		-	
	Ferilizer Applied P	60		60		60		60		-		60		-		-		60		-	
	Ferilizer Applied K	40		40		40		40		-		60		-		-		40		-	

LOCATIONS REJECTED DUE TO HIGH C.V.: KALY 31.4 %: SABO 29.4 %: HYDE 22.9 %: GODH 43.1 %

TABLE No. 21 (Contd.)

Sl No	PEDIGREE	GREEN EAR YIELD(kg/ha) DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	KALY	R	SABO	R	NEPZ ZN 3 MEAN	R	HYDE	R	KARI	R	DHAR	R	KOLH	R	MAND	R	COIM	R	RAHU	R	PZ ZN 4 MEAN	R
1	IMHB 1538	4667	3	3291	4	6938	3	4789	2	3984	4	9753	7	3273	12	4734	2	5308	1	3058	5	5900	7	6851	5	6406	3	10901	3	3388	11	6084	4
2	IMHB 1525	3889	12	3754	1	6826	4	2326	13	2231	13	10625	2	4390	8	3805	9	2996	13	3458	3	7169	2	6897	4	5316	8	7066	13	4121	6	5671	8
3	IMHB 1531	4806	1	3261	5	5674	9	4967	1	5321	2	8917	9	5936	1	4806	1	4441	4	3601	2	5700	9	7722	2	5274	9	12002	1	4322	4	6437	1
4	AH-7043	4083	11	2580	11	6306	6	3855	5	2830	8	8753	11	4620	6	3931	6	4767	3	1664	14	4341	13	4808	11	4799	14	8534	10	3636	9	4630	14
5	IMHB 1539	3694	13	2680	10	6097	8	3496	10	2387	12	9955	5	4620	5	3671	13	3806	8	2253	12	6544	5	4669	13	4917	12	8629	8	3946	7	5160	10
6	AH-5021	4167	8	3343	2	6319	5	4361	3	3698	7	10028	4	4209	10	4378	5	3554	12	3917	1	6888	3	7102	3	5260	10	9778	6	3338	12	6047	5
7	IMHB 1537	4319	6	2986	7	6201	7	3673	9	2422	11	8497	12	4709	4	3920	7	3874	6	2680	8	5422	11	6282	8	5781	4	9966	5	3559	10	5615	9
8	GAYMH-1	4611	4	2436	12	7547	2	2332	12	1806	14	8826	10	2617	13	3746	10	4146	5	3014	6	7195	1	6529	6	5698	5	8797	7	5678	1	6152	3
9	IMHB 1532	4750	2	2280	14	4882	13	2818	11	3939	5	9809	6	3294	11	3734	11	3779	10	2402	10	6794	4	6124	9	4847	13	10035	4	4606	3	5801	7
10	IMHB 1529	4111	10	2904	8	5306	10	3948	4	5877	1	10493	3	5265	2	4429	4	4863	2	2728	7	6212	6	8205	1	5580	6	11523	2	3732	8	6330	2
11	BVM-2	4167	9	3295	3	7646	1	3747	8	4571	3	11198	1	4344	9	4685	3	3732	11	2376	11	5253	12	4537	14	5083	11	7747	11	3223	14	4703	13
12	MBC 11-15	4389	5	2401	13	4875	14	1737	14	2578	10	9625	8	2617	14	3196	14	2907	14	1854	13	5709	8	4723	12	5458	7	7156	12	4669	2	4928	11
13	DMRHB 1305	3694	14	3065	6	5076	12	3818	6	3863	6	7066	14	4483	7	3903	8	3862	7	3179	4	4142	14	6519	7	9156	1	8557	9	3272	13	5804	6
	CHECKS																																
14	HM 4(C)	4222	7	2776	9	5236	11	3757	7	2595	9	7146	13	5021	3	3717	12	3780	9	2453	9	5484	10	5381	10	6938	2	4448	14	4322	5	4837	12
	Location Mean	**4255**		**2932**		**6066**		**3545**		**3436**		**9335**		**4243**		**4047**		**3987**		**2760**		**5911**		**6168**		**5751**		**8938**		**3987**		**5586**	
	C.D. (5%)	607		103		837		779		795		3946		1676		624		1229		515		1251		1797		713		645		1027		830	
	C.V. (%)	10.6		2.6		10.26		16.34		17.19		**31.42**		**29.36**		**-**		**22.91**		13.87		15.73		21.66		9.22		5.36		19.15		**-**	
	F (Prob)	0.05		0		0		0		0		0.87		0.072				0.134		0		0.005		0.019		0		0		0.017			
	Plot Size	12		9.6		4.8		9.6		9.6		9.6		9.6		-		12		12		9.6		9.6		9.6		9.6		7.2		-	
	AGRONOMY DATA																																
	Sowing Date	7-07		7-07		7-07		23-06		24-06		24-06		2-07		-		11-07		16-07		28-06		28-07		2-08		19-07		8-08		-	
	Harvest Date	5-09		2-09		20-08		-		12-08		-		-		-		29-08		-		24-08		-		17-09		9-12		-		-	
	Irrigation Nos	1		-		-		-		-		-		3		-		4		2		1		-		4		8		2		-	
	Ferilizer Applied N	120		120		120		120		120		150		130		-		200		-		150		120		150		250		120		-	
	Ferilizer Applied P	60		60		60		60		60		75		40		-		60		-		65		60		75		75		60		-	
	Ferilizer Applied K	40		60		40		40		60		75		30		-		50		-		65		40		40		75		40		-	

TABLE No. 21 (Contd.)

Sl No	PEDIGREE	GREEN EAR YIELD(kg/ha) UDAI	R	BANS	R	CHHI	R	GODH	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	IMHB 1538	5382	3	3715	3	11743	5	2783	11	6947	1	5833	4
2	IMHB 1525	4323	10	3438	9	11156	8	2920	9	6306	10	5658	7
3	IMHB 1531	6163	1	3819	2	9750	11	3698	5	6578	5	5996	1
4	AH-7043	5278	4	3542	8	10715	9	2809	10	6512	7	5299	13
5	IMHB 1539	4340	9	3854	1	10267	10	3835	3	6154	11	5518	11
6	AH-5021	4792	6	3299	12	12080	3	2664	12	6723	4	5857	3
7	IMHB 1537	4219	11	3299	13	11587	6	3791	4	6368	9	5739	6
8	GAYMH-1	3993	12	3611	6	9750	12	2372	14	5785	12	5363	12
9	IMHB 1532	5816	2	3438	10	11238	7	3423	6	6830	3	5574	9
10	IMHB 1529	3889	13	3681	4	12007	4	4322	1	6525	6	5985	2
11	BVM-2	4514	7	3260	14	7778	14	2588	13	5184	14	5623	8
12	MBC 11-15	4410	8	3326	11	8392	13	3220	7	5376	13	4728	14
13	DMRHB 1305	3333	14	3587	7	12273	1	3008	8	6398	8	5812	5
	CHECKS												
14	HM 4(C)	5069	5	3646	5	12090	2	4000	2	6935	2	5519	10
	Location Mean	**4680**		**3537**		**10773**		**3245**		**6330**		**5607**	
	C.D. (5%)	425		456		2396		1883		892		828	
	C.V. (%)	6.74		9.58		11.19		**43.12**		**-**		-	
	F (Prob)	0		0.417		0.001		0.844					
	Plot Size	9.6		9.6		6.5		9.6		-		-	
	AGRONOMY DATA												
	Sowing Date	5-07		27-06		17-07		8-07		-		-	
	Harvest Date	2-09		-		21-09		-		-		-	
	Irrigation Nos	1		-		-		-		-		-	
	Ferilizer Applied N	90		150		120		120		-		-	
	Ferilizer Applied P	60		80		60		60		-		-	
	Ferilizer Applied K	-		-		40		-		-		-	

TABLE No. 21 (Contd.)

Sl No	PEDIGREE	GREEN EAR YIELD % SUPERIORITY OVER THE HM 4(C) NHZ(ZN 1) ALMO	R	BAJA	R	KANG	R	IMPH	R	MEAN	R	KARN	R	KANP	R	DELH	R	PANT	R	NWPZ ZN 2 MEAN	R	DHOL	R	BHUB	R	RANC	R	VARA	R	BAHR	R	KALY	R	SABO	R	NEPZ ZN 3 MEAN	R
1	IMHB 1538	3.6		10.3		4.7		71.5		16.8		9.3		-		-		-		-		10.5		18.6		32.5		27.5		53.5		36.5		-		27.4	
2	IMHB 1525	32.9		-		5.1		138		27.3		-		-		-		-		-		-		35.2		30.4		-		-		48.7		-		2.4	
3	IMHB 1531	6.3		12		0.6		69.7		16.9		22.8		-		-		-		-		13.8		17.5		8.4		32.2		105		24.8		18.2		29.3	
4	AH-7043	-		14.3		4.7		85.6		15.2		-		-		-		-		-		-		-		20.4		2.6		9		22.5		-		5.8	
5	IMHB 1539	19.5		-		-		150		22.1		27.1		-		-		-		-		-		-		16.4		-		-		39.3		-		-	
6	AH-5021	42.7		-		-		158		31.9		-		-		1.1		-		-		-		20.4		20.7		16.1		42.5		40.3		-		17.7	
7	IMHB 1537	13.4		16.9		-		117		25.3		27		-		-		-		-		2.3		7.6		18.4		-		-		18.9		-		5.5	
8	GAYMH-1	14.6		14.6		-		61.2		11.2		1.4		-		-		-		-		9.2		-		44		-		-		23.5		-		0.9	
9	IMHB 1532	30		-		-		53.8		4.8		21.3		3.2		-		-		-		12.5		-		-		-		51.8		37.3		-		0.5	
10	IMHB 1529	35.8		11.9		-		43.9		12.6		5.9		-		17.2		-		0.6		-		4.6		1.3		5.1		126.4		46.8		4.9		19.2	
11	BVM-2	21.7		22.3		54.2		24.2		29.2		16.9		1.1		3		-		3.8		-		18.7		46		-		76.1		56.7		-		26.1	
12	MBC 11-15	-		-		-		68.2		-		1.7		-		-		-		-		3.9		-		-		-		-		34.7		-		-	
13	DMRHB 1305	20.7		7.2		-		53.8		10.9		16.2		-		-		8		5.2		-		10.4		-		1.6		48.8		-		-		5.2	
	CHECKS																																				
14	HM 4(C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 21 (Co

Sl No	PEDIGREE	GREEN EAR YIELD % SUPERIORITY OVER THE HM 4(C)														PZ ZN 4										CWZ ZN 5		OV'L	
		HYDE	R	KARI	R	DHAR	R	KOLH	R	MAND	R	COIM	R	RAHU	R	MEAN	R	UDAI	R	BANS	R	CHHI	R	GODH	R	MEAN	R	MEAN	R
1	IMHB 1538	40.4		24.7		7.6		27.3		-		145.1		-		25.8		6.2		1.9		-		-		0.2		5.7	
2	IMHB 1525	-		41		30.7		28.2		-		58.9		-		17.2		-		-		-		-		-		2.5	
3	IMHB 1531	17.5		46.8		4		43.5		-		169.8		0		33.1		21.6		4.8		-		-		-		8.7	
4	AH-7043	26.1		-		-		-		-		91.9		-		-		4.1		-		-		-		-		-	
5	IMHB 1539	0.7		-		19.4		-		-		94		-		6.7		-		5.7		-		-		-		0.0	
6	AH-5021	-		59.7		25.6		32		-		119.8		-		25.0		-		-		-		-		-		6.1	
7	IMHB 1537	2.5		9.3		-		16.7		-		124.1		-		16.1		-		-		-		-		-		4.0	
8	GAYMH-1	9.7		22.9		31.2		21.3		-		97.8		31.4		27.2		-		-		-		-		-		-	
9	IMHB 1532	-		-		23.9		13.8		-		125.6		6.6		19.9		14.7		-		-		-		-		1.0	
10	IMHB 1529	28.7		11.2		13.3		52.5		-		159.1		-		30.9		-		1		-		8.1		-		8.4	
11	BVM-2	-		-		-		-		-		74.2		-		0.2		-		-		-		-		-		1.9	
12	MBC 11-15	-		-		4.1		-		-		60.9		8		1.9		-		-		-		-		-		-	
13	DMRHB 1305	2.2		29.6		-		21.1		32		92.4		-		20.0		-		-		1.5		-		-		5.3	
	CHECKS																												
14	HM 4(C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 21 (Contd.)

Sl No	PEDIGREE	COB WEIGHT WITHOUT HUSK (kg/ha)																															
		NHZ(ZN 1)																NWPZ ZN 2												NEPZ ZN 3			
		ALMO	R	BAJA	R	KANG	R	IMPH	R	MEAN	R	KARN	R	KANP	R	DELH	R	PANT	R	MEAN	R	DHOL	R	BHUB	R	VARA	R	BAHR	R	KALY	R	SABO	R	MEAN	R
1	IMHB 1538	888.9	7	1698	7	1499	3	149.3	14	1362	4	2324	7	670.1	14	1429	7	3311	1	1474	9	2167	8	810.8	5	1250	1	1356	5	2997	11	880.6	10	1444	5
2	IMHB 1525	1128	3	1351	12	1478	4	187.5	13	1319	6	1918	12	680.6	13	1419	8	3241	2	1339	13	2056	10	800.3	7	532.3	13	1189	7	3698	4	1413	4	1348	10
3	IMHB 1531	933.3	6	1412	10	1260	7	847.2	3	1202	11	2912	2	618.1	12	1447	6	1541	14	1659	3	2278	5	919.3	1	1153	2	1363	4	3948	1	1599	1	1520	3
4	AH-7043	763.9	11	1849	1	1779	2	625	9	1464	1	1870	13	729.2	11	1485	5	2628	7	1361	12	2250	6	724	11	952.1	5	1111	8	2899	12	1449	2	1362	9
5	IMHB 1539	1003	5	1242	14	1439	5	920.1	2	1228	9	2436	5	625	10	1374	9	2252	9	1478	8	1861	14	809	6	789.6	10	784.7	12	3684	5	1064	9	1152	13
6	AH-5021	733.3	12	1290	13	1160	9	781.3	6	1061	14	1859	14	593.8	9	1004	14	1704	11	1152	14	2472	2	822.9	4	864.6	7	876.7	10	3510	7	788.2	12	1391	7
7	IMHB 1537	1017	4	1833	2	1400	6	1076	1	1416	3	2288	8	840.3	8	1226	12	2852	3	1451	10	1889	12	719.6	12	814.2	8	633.7	14	3128	10	1269	7	1081	14
8	GAYMH-1	872.2	8	1623	8	1140	11	826.4	4	1212	10	2638	4	625	7	1228	11	1617	12	1497	7	3722	1	610.2	14	606.9	12	720.5	13	2753	13	607.6	14	1684	1
9	IMHB 1532	1139	2	1786	4	1056	13	694.4	7	1327	5	3142	1	781.3	6	1732	3	1544	13	1885	1	2444	3	726.6	10	810.4	9	1326	6	3316	8	796.5	11	1499	4
10	IMHB 1529	1158	1	1603	9	1014	14	694.4	8	1259	8	2152	10	718.8	5	2082	1	1819	10	1651	4	1889	13	849.8	2	1009	3	1467	2	3889	3	1434	3	1402	6
11	BVM-2	716.7	13	1799	3	1850	1	538.2	10	1455	2	1982	11	774.3	4	1890	2	2661	5	1549	6	2194	7	833.3	3	918.4	6	1918	1	3670	6	1324	6	1649	2
12	MBC 11-15	619.4	14	1742	6	1064	12	822.9	5	1142	12	2345	6	718.8	3	1097	13	2313	8	1387	11	2083	9	676.2	13	506.3	14	1050	9	3924	2	783.3	13	1270	12
13	DMRHB 1305	833.3	10	1766	5	1204	8	493.1	11	1268	7	2764	3	875	2	1349	10	2815	4	1662	2	1944	11	759.5	9	962.2	4	1450	3	2587	14	1332	5	1385	8
	CHECKS																																		
14	HM 4(C)	841.7	9	1411	11	1158	10	395.8	12	1137	13	2216	9	767.4	1	1717	4	2641	6	1567	5	2417	4	763	8	772.2	11	807.3	11	3208	9	1217	8	1329	11
	Location Mean	**903.4**		**1600**		**1321**		**646.6**		**1275**		**2346**		**715.5**		**1463**		**2353**		**1508**		**2262**		**773.2**		**853**		**1147**		**3372**		**1140**		**1394**	
	C.D. (5%)	96		330		130		226		185		327		131		195		674		218		219		63		285		197		1568		472		160	
	C.V. (%)	7.89		12.11		5.63		**26.03**		**-**		10.37		13.6		9.91		**21.28**		**-**		7.21		6.03		**24.65**		12.76		**34.57**		**30.79**		**-**	
	F (Prob)	0		0.03		0		0				0		0.024		0		0				0		0		0.004		0		0.918		0.02			
	Plot Size	6		6		7.2		9.6		-		9.6		9.6		12		9		-		12		9.6		9.6		9.6		9.6		9.6		-	
	AGRONOMY DATA																																		
	Sowing Date	4-07		30-06		24-06		16-08		-		3-07		23-07		8-07		29-06		-		7-07		7-07		23-06		24-06		24-06		2-07		-	
	Harvest Date	-		-		-		-		-		-		18-09		-		-		-		5-09		2-09		-		12-08		-		-		-	
	Irrigation Nos	-		3		-		-		-		5		-		-		-		-		1		-		-		-		-		3		-	
	Ferilizer Applied N	100		120		150		80		-		150		-		-		120		-		120		120		120		120		150		130		-	
	Ferilizer Applied P	60		60		60		60		-		60		-		-		60		-		60		60		60		60		75		40		-	
	Ferilizer Applied K	40		40		40		40		-		60		-		-		40		-		40		60		40		60		75		30		-	

TABLE No. 21 (Cont

Sl No	PEDIGREE	COB WEIGHT WITHOUT HUSK (kg/ha) HYDE	R	KARI	R	DHAR	R	KOLH	R	MAND	R	RAHU	R	PZ ZN 4 MEAN	R	UDAI	R	AMBI	R	GODH	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	IMHB 1538	1136	3	826.9	5	1158	7	1366	5	1056	9	900.5	12	1117	4	1771	4	2625	2	2129	6	2198	3	1519	5
2	IMHB 1525	627.5	13	852.8	3	1180	5	1129	9	934	11	1166	9	1054	8	1094	12	2139	10	2092	7	1616	11	1335	10
3	IMHB 1531	935.8	5	1115	1	1109	11	1501	3	1111	6	1423	6	1242	1	1563	5	2413	6	2956	2	1988	5	1522	4
4	AH-7043	1230	1	651.7	10	1108	12	1423	4	930.6	12	1997	2	1061	7	1337	7	2604	3	1509	11	1970	7	1444	7
5	IMHB 1539	789.2	10	651.1	11	1247	3	845.5	14	1323	3	1056	11	914.4	13	1128	10	2267	9	2535	3	1698	10	1294	12
6	AH-5021	603.1	14	822.8	6	1110	10	986.1	12	850.7	14	763.9	14	973.1	10	1250	9	1767	14	1501	12	1509	13	1217	14
7	IMHB 1537	831.4	9	760.3	7	1131	9	1353	6	1069	8	1531	5	1082	6	1076	13	1854	13	1485	13	1465	14	1299	11
8	GAYMH-1	730.3	12	838.3	4	1147	8	1289	7	1094	7	2222	1	1091	5	2656	1	2038	11	1216	14	2347	2	1566	2
9	IMHB 1532	851.9	8	581.4	13	1530	1	1508	2	1191	4	1857	3	1207	2	2049	2	2726	1	2235	5	2387	1	1661	1
10	IMHB 1529	1169	2	700.8	9	1191	4	1675	1	1469	2	1103	10	1189	3	1042	14	2517	4	3046	1	1780	8	1456	6
11	BVM-2	956.4	4	744.4	8	1302	2	964.6	13	913.2	13	1275	8	1004	9	1493	6	2465	5	1824	10	1979	6	1527	3
12	MBC 11-15	734.4	11	558.9	14	1165	6	1028	11	989.6	10	1352	7	917.3	12	1128	11	1927	12	2073	8	1528	12	1249	13
13	DMRHB 1305	854.2	7	856.4	2	890.3	14	1152	8	1552	1	866.2	13	966.3	11	1285	8	2271	8	2251	4	1778	9	1412	9
	CHECKS																								
14	HM 4(C)	888.6	6	608.6	12	988.9	13	1035	10	1132	5	1649	4	877.5	14	2014	3	2347	7	1882	9	2181	4	1418	8
	Location Mean	**881.3**		**755**		**1161**		**1233**		**1115**		**1369**		**1050**		**1492**		**2283**		**2052**		**1887**		**1423**	
	C.D. (5%)	274		182		297		299		395		429		259		208		293		1113		250		212	
	C.V. (%)	**23.15**		17.87		19.07		18.04		**26.33**		**23.3**		**-**		10.36		9.53		**40.29**		**-**		-	
	F (Prob)	0.012		0.004		0.231		0.001		0.242		0				0		0		0.307					
	Plot Size	12		12		9.6		9.6		9.6		7.2		-		9.6		9.6		9.6		-		-	
	AGRONOMY DAT/																								
	Sowing Date	11-07		16-07		28-06		28-07		2-08		8-08		-		5-07		7-07		8-07		-		-	
	Harvest Date	29-08		-		24-08		-		17-09		-		-		2-09		-		-		-		-	
	Irrigation Nos	4		2		1		-		4		2		-		1		-		-		-		-	
	Ferilizer Applied N	200		-		150		120		150		120		-		90		100		120		-		-	
	Ferilizer Applied P	60		-		65		60		75		60		-		60		50		60		-		-	
	Ferilizer Applied K	50		-		65		40		40		40		-		-		30		-		-		-	

TABLE No. 21 (Contd.)

Sl No	PEDIGREE	COB WEIGHT WITHOUT HUSK % SUPERIORITY OVER THE HM 4 (C) NHZ(ZN 1) ALMO	R	BAJA	R	KANG	R	IMPH	R	MEAN	R	KARN	R	KANP	R	DELH	R	PANT	R	NWPZ ZN 2 MEAN	R	DHOL	R	BHUB	R	VARA	R	BAHR	R	KALY	R	SABO	R	NEPZ ZN 3 MEAN	R
1	IMHB 1538	5.6		20.3		29.4		-		19.8		4.8		-		-		25.4		-		-		6.3		61.9		68		-		-		8.7	
2	IMHB 1525	34		-		27.6		-		16.0		-		-		-		22.7		-		-		4.9		-		47.3		15.3		16		1.5	
3	IMHB 1531	10.9		0.04		8.8		114		5.7		31.4		-		-		-		5.9		-		20.5		49.3		68.8		23.1		31.3		14.4	
4	AH-7043	-		31.1		53.6		57.9		28.8		-		-		-		-		-		-		-		23.3		37.6		-		19.1		2.5	
5	IMHB 1539	19.1		-		24.2		132.5		8.0		9.9		-		-		-		-		-		6.1		2.3		-		14.8		-		-	
6	AH-5021	-		-		0.1		97.4		-		-		-		-		-		-		2.3		7.8		12.0		8.6		9.4		-		4.6	
7	IMHB 1537	20.8		29.9		20.9		171.9		24.6		3.2		9.5		-		8		-		-		-		5.4		-		-		4.3		-	
8	GAYMH-1	3.6		15		-		108.8		6.6		19		-		-		-		-		54		-		-		-		-		-		26.7	
9	IMHB 1532	35.3		26.5				75.4		16.7		41.8		1.8		0.9		-		20.3		1.1		-		4.9		64.3		3.4		-		12.8	
10	IMHB 1529	37.6		13.6		-		75.4		10.7		-		-		21.3		-		5.4		-		11.4		30.7		81.7		21.2		17.8		5.5	
11	BVM-2	-		27.5		59.7		36		28.0		-		0.9		10.1		0.8		-		-		9.2		18.9		137.6		14.4		8.8		24.1	
12	MBC 11-15	-		23.4		-		107.9		0.4		5.8		-		-		-		-		-		-		-		30.1		22.3		-		-	
13	DMRHB 1305	-		25.2		4		24.6		11.5		24.7		14		-		6.6		6.1		-		-		24.6		79.6		-		9.4		4.2	
	CHECKS																																		
14	HM 4 (C)	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 21 (Cc

Sl No	PEDIGREE	COB WEIGHT WITHOUT HUSK % SUPERIORITY OVER THE HM 4 (C) HYDE	R	KARI	R	DHAR	R	KOLH	R	MAND	R	RAHU	R	PZ(ZN 4) MEAN	R	UDAI	R	AMBI	R	GODH	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	IMHB 1538	27.9		35.9		17.2		31.9		-		-		27.3		-		11.8		13.3		0.8		7.1	
2	IMHB 1525	-		40.1		19.3		9.1		-		-		20.1		-		-		11.1		-		-	
3	IMHB 1531	5.3		83.2		12.3		45		-		-		41.5		-		2.8		57.2		-		7.3	
4	AH-7043	38.4		7.1		11.9		37.5		-		21.1		20.8		-		10.9		-		-		-	
5	IMHB 1539	-		7		26.3		-		16.9		-		4.3		-		-		34.9		-		-	
6	AH-5021	-		35.2		12.3		-		-		-		10.9		-		-		-		-		-	
7	IMHB 1537	-		24.9		14.4		30.8		-		-		23.3		-		-		-		-		-	
8	GAYMH-1	-		37.7		16.1		24.5		-		34.8		24.4		31.9		-		-		7.6		10.4	
9	IMHB 1532	-		-		54.7		45.7		5.2		12.6		37.5		1.7		16.1		18.8		9.5		17.1	
10	IMHB 1529	31.6		15.2		20.4		61.8		29.8		-		35.5		-		7.2		62		-		2.7	
11	BVM-2	7.6		22.3		22.8		-		-		-		11.1		-		5		-		-		7.7	
12	MBC 11-15	-		-		18.2		-		-		-		4.7		-		-		10.3		-		-	
13	DMRHB 1305	-		40.7		-		11.3		37.1		-		10.2		-		-		19.6		-		-	
	CHECKS																								
14	HM 4 (C)	-		-		-		-		-		-		-		-		-		-		-		-	

Table No. 21 (Contd.)

		STAND AT HARVEST ('000/ha)				NHZ					NWPZ								NEPZ
						ZN 1					ZN 2								ZN 3
S.No.	PEDIGREE	ALMO	BAJA	KANG	IMPH	Mean	KARN	KANP	DELH	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	KALY	SABO	Mean
1	IMHB 1538	100.6	102.5	75.7	58.3	84.3	100.0	80.2	82.8	72.6	83.9	54.7	101.0	84.7	66.0	68.4	79.9	37.8	75.8
2	IMHB 1525	122.2	110.0	77.8	58.3	92.1	99.0	77.8	83.1	74.8	83.7	55.0	100.7	95.1	91.0	79.2	86.1	65.3	84.5
3	IMHB 1531	111.7	110.0	75.0	58.0	88.7	98.6	78.5	80.6	67.4	81.3	53.6	100.7	74.3	78.5	68.1	91.7	62.5	77.8
4	AH-7043	125.0	110.8	77.1	58.3	92.8	99.0	77.1	76.4	77.4	82.5	56.4	100.3	88.9	86.5	103.8	78.5	65.3	85.7
5	IMHB 1539	114.4	109.2	76.4	58.0	89.5	99.7	77.1	75.0	68.1	80.0	56.1	94.4	80.6	67.7	61.8	78.8	55.9	73.2
6	AH-5021	113.9	104.2	70.8	58.3	86.8	100.7	77.8	75.3	71.9	81.4	54.7	100.3	75.7	67.4	72.6	81.3	57.6	75.3
7	IMHB 1537	98.3	98.3	77.8	58.3	83.2	97.9	79.5	81.9	71.5	82.7	58.1	102.1	88.2	87.2	58.0	81.3	63.9	79.1
8	GAYMH-1	122.8	96.7	72.9	58.3	87.7	99.3	76.7	104.7	71.9	88.2	58.3	99.7	79.2	87.8	86.5	86.1	44.4	82.9
9	IMHB 1532	120.0	95.0	79.9	58.3	88.3	99.7	80.6	70.8	77.4	82.1	51.9	99.7	90.3	89.2	66.0	78.5	42.7	79.3
10	IMHB 1529	123.3	90.0	75.7	58.0	86.8	100.0	79.2	96.9	74.8	87.7	55.6	99.0	87.5	87.2	82.3	85.4	52.8	82.8
11	BVM-2	123.9	105.0	72.2	58.3	89.9	97.6	80.9	70.6	74.1	80.8	58.1	100.7	78.5	76.0	63.9	91.7	60.4	78.1
12	MBC 11-15	118.9	109.2	72.9	58.3	89.8	98.6	80.2	78.3	73.3	82.6	58.1	99.3	81.3	89.9	87.2	77.4	41.0	82.2
13	DMRHB 1305	118.9	113.3	69.4	58.3	90.0	97.9	79.2	77.5	75.6	82.5	58.9	101.4	76.4	78.8	83.0	79.2	50.0	79.6
	CHECKS																		
14	HM 4(C)	127.8	125.0	74.3	57.3	96.1	98.6	79.2	86.9	78.5	85.8	55.8	99.3	77.8	88.2	86.5	78.8	55.6	81.1
	Loc. Mean	**117.3**	**105.7**	**74.9**	**58.2**	**89.0**	**99.0**	**78.8**	**81.5**	**73.5**	**83.2**	**56.1**	**99.9**	**82.7**	**81.5**	**76.2**	**82.5**	**53.9**	**79.8**
	C.D. (5%)	8.03	16.64	6.79	0.47	9.06	3.31	3.91	11.00	5.04	7.39	2.81	3.99	12.05	5.47	11.73	8.66	20.93	7.97
	C.V. (%)	4.08	7.29	4.20	0.48	7.12	1.99	2.95	8.04	4.09	6.21	2.99	2.38	8.68	3.99	9.17	6.26	23.12	8.66
	F (Prob)	0.00	0.04	0.17	0.00	0.38	0.81	0.44	0.00	0.00	0.55	0.00	0.12	0.03	0.00	0.00	0.02	0.12	0.10

STAND AT HARVEST ('000/ha)							PZ ZN 4					CWZ ZN 5	OV'L
HYDE	KARI	DHAR	KOLH	MAND	COIM	RAHU	Mean	BANS	CHHI	AMBI	GODH	Mean	Mean
52.8	54.7	68.8	54.5	65.6	65.6	92.1	64.9	59.4	85.6	72.2	41.3	72.4	74.9
52.2	57.8	66.7	64.9	67.7	66.0	85.6	65.8	61.1	122.6	65.3	30.9	83.0	80.0
37.8	58.3	70.5	65.6	66.7	65.3	84.7	64.1	58.0	99.5	65.6	44.4	74.4	75.8
50.3	53.6	74.7	64.9	65.6	66.0	93.1	66.9	60.1	104.1	77.4	36.8	80.5	80.2
43.6	43.6	66.7	39.6	66.3	66.7	79.6	58.0	58.3	99.5	67.7	33.7	75.2	72.9
44.2	52.5	61.5	56.6	68.8	66.7	80.1	61.5	61.1	102.1	62.8	32.6	75.3	74.2
33.9	41.4	41.3	46.9	64.9	66.0	74.1	52.6	60.8	95.9	65.6	36.1	74.1	72.0
47.5	57.2	72.9	53.1	67.7	66.3	81.9	63.8	62.8	102.1	67.7	27.8	77.5	78.3
55.0	51.9	67.4	62.8	65.6	66.3	91.2	65.8	60.8	105.6	76.4	35.1	80.9	77.5
51.9	59.4	70.5	63.2	64.2	66.3	90.3	66.6	58.3	114.9	78.1	50.0	83.8	79.7
50.0	52.8	63.5	64.6	65.3	66.7	88.4	64.5	61.1	100.5	70.8	39.9	77.5	76.5
45.6	57.2	71.2	58.0	67.7	66.3	87.5	64.8	61.5	99.0	64.2	36.5	74.9	77.5
53.1	54.4	54.5	56.9	64.9	66.7	74.1	60.7	58.0	105.6	70.5	46.9	78.0	76.1
53.1	56.1	74.3	62.5	64.6	63.5	91.7	66.5	61.8	112.8	66.7	48.3	80.4	80.0
47.9	**53.7**	**66.0**	**58.2**	**66.1**	**66.0**	**85.3**	**63.3**	**60.2**	**103.6**	**69.4**	**38.6**	**77.7**	**76.8**
9.74	8.44	11.71	11.07	3.12	0.93	26.50	5.14	3.19	19.45	7.13	25.43	9.89	3.29
12.11	9.37	10.56	11.34	2.81	0.84	18.51	7.63	3.15	11.19	6.12	39.26	7.59	7.53
0.00	0.00	0.00	0.00	0.13	0.00	0.90	0.00	0.06	0.10	0.00	0.83	0.41	0.00

Table No. 21 (Contd.)

		LENGTH OF BABY CORN (cm)							NWPZ					NEPZ
		NHZ(ZN 1)							ZN 2					ZN 3
S.No	PEDIGREE	ALMO	KANG	Mean	KARN	KANP	DELH	PANT	Mean	DHOL	RANC	BAHR	SABO	Mean
1	IMHB 1538	8.4	9.30	8.9	9.0	6.4	9.8	11.0	9.0	9.7	8.7	8.1	15.8	8.9
2	IMHB 1525	8.5	10.70	9.6	7.1	6.6	11.7	13.5	9.7	9.0	8.3	10.1	18.3	9.1
3	IMHB 1531	8.4	10.95	9.7	10.2	6.7	9.9	11.1	9.5	9.5	9.9	10.1	18.8	9.8
4	AH-7043	8.3	10.25	9.3	7.5	6.5	9.2	11.2	8.6	9.1	8.0	9.0	11.1	8.7
5	IMHB 1539	8.9	12.05	10.5	10.5	6.3	9.7	11.0	9.4	8.8	8.6	9.5	18.1	9.0
6	AH-5021	8.3	10.45	9.4	7.2	6.3	9.8	10.7	8.5	9.6	8.3	8.1	19.4	8.7
7	IMHB 1537	8.8	11.70	10.3	9.9	6.6	9.4	11.3	9.3	8.6	9.1	8.3	16.8	8.6
8	GAYMH-1	7.7	12.65	10.2	10.6	6.8	9.8	10.8	9.5	11.5	7.8	8.0	21.1	9.1
9	IMHB 1532	8.6	11.80	10.2	9.4	6.5	9.4	9.9	8.8	9.1	8.7	8.8	17.6	8.9
10	IMHB 1529	9.2	11.60	10.4	8.6	6.3	10.1	10.5	8.9	9.6	9.7	9.3	17.5	9.5
11	BVM-2	7.9	12.50	10.2	7.7	6.6	8.8	10.3	8.3	8.5	8.6	9.2	15.7	8.8
12	MBC 11-15	8.4	9.55	9.0	8.9	6.8	9.8	11.0	9.1	6.1	8.6	9.0	16.5	7.9
13	DMRHB 1305	9.0	11.85	10.4	11.3	6.5	10.7	10.3	9.7	9.8	8.7	9.9	18.0	9.5
	CHECKS													
14	HM 4 (C)	8.1	10.05	9.1	8.6	6.6	9.4	11.0	8.9	9.4	8.5	9.2	18.6	9.0
	Loc. Mean	**8.5**	**11.10**	**9.8**	**9.0**	**6.5**	**9.8**	**11.0**	**9.1**	**9.2**	**8.7**	**9.1**	**17.4**	**9.0**
	C.D. (5%)	0.07	0.11	-	0.38	0.15	0.28	0.73	0.80	0.32	0.32	0.23	0.55	1.13
	C.V. (%)	7.70	5.26	-	10.04	13.23	9.67	20.50	18.46	7.03	23.46	12.59	29.89	27.49
	F (Prob)	0.00	0.00	-	0.00	0.02	0.00	0.00	0.48	0.00	0.00	0.00	0.02	0.82

Locations Rejected due to High C.V.:SABOUR 29.9%: HYDERABAD 22.5%:
MANDYA 27.7%: RAHURI 22.4%

Table No. 21 (Contd

S.No	PEDIGREE	LENGTH OF BABY CORN (cm) HYDE	KARI	DHAR	KOLH	MAND	RAHU	PZ ZN 4 Mean	CWZ GODH	ZN 5 Mean	OV'L Mean
1	IMHB 1538	9.0	9.3	9.7	10.1	11.4	8.6	9.8	9.7	9.7	9.3
2	IMHB 1525	9.1	9.8	10.3	11.6	11.0	10.1	10.6	9.4	9.4	9.7
3	IMHB 1531	8.7	10.3	9.5	10.4	10.1	8.2	9.7	8.9	8.9	9.5
4	AH-7043	8.7	9.7	9.4	9.4	9.8	8.9	9.5	8.7	8.7	8.9
5	IMHB 1539	8.8	9.8	10.0	10.1	10.4	8.4	9.7	9.1	9.1	9.5
6	AH-5021	8.2	9.4	9.8	9.5	10.7	9.3	9.7	9.0	9.0	9.1
7	IMHB 1537	9.1	9.9	9.8	10.4	10.2	9.1	9.9	8.6	8.6	9.3
8	GAYMH-1	8.8	10.0	9.2	8.9	11.5	9.3	9.8	9.1	9.1	9.5
9	IMHB 1532	8.5	9.6	9.7	10.5	11.6	9.2	10.1	8.9	8.9	9.4
10	IMHB 1529	8.4	9.1	9.6	10.1	11.1	8.1	9.6	8.6	8.6	9.4
11	BVM-2	7.6	7.8	9.0	8.8	10.8	8.0	8.9	9.1	9.1	9.1
12	MBC 11-15	8.7	8.3	9.8	10.0	10.8	9.6	9.7	9.4	9.4	9.0
13	DMRHB 1305	9.0	9.7	10.8	10.4	10.4	9.1	10.1	9.1	9.1	9.8
	CHECKS										
14	HM 4 (C)	9.1	9.0	9.4	8.4	10.3	9.0	9.2	9.9	9.9	9.2
	Loc. Mean	**8.7**	**9.4**	**9.7**	**9.9**	**10.7**	**8.9**	**9.7**	**9.1**	**9.1**	**9.3**
	C.D. (5%)	0.40	0.28	0.33	0.34	0.50	0.37	0.38	1.36	0.73	-
	C.V. (%)	22.48	18.26	17.97	17.35	27.72	22.42	15.14	41.11	18.71	-
	F (Prob)	0.01	0.00	0.23	0.00	0.24	0.00	0.24	0.31	0.22	-

Table No. 21 (Contd.)

		COB DIAMETER OF BABY CORN (cm)						NWPZ							NEPZ
						NHZ(ZN 1)		ZN 2							ZN 3
S.No	PEDIGREE	ALMO	BAJA	KANG	IMPH	Mean	KANP	Mean	DHOL	BHUB	RANC	VARA	BAHR	SABO	Mean
1	IMHB 1538	2.1	4.2	2.5	3.8	3.1	1.7	1.7	5.6	3.2	3.3	4.6	3.8	3.1	3.9
2	IMHB 1525	2.7	4.1	2.5	5.2	3.6	2.6	2.6	4.7	3.6	3.3	2.2	2.1	4.2	3.4
3	IMHB 1531	2.1	3.7	2.4	3.7	3.0	2.6	2.6	5.8	3.1	2.7	4.8	5.1	5.7	4.5
4	AH-7043	1.6	4.3	2.5	4.1	3.1	2.8	2.8	4.9	2.5	3.0	3.7	2.7	4.4	3.5
5	IMHB 1539	2.4	4.5	2.2	5.5	3.6	2.1	2.1	4.4	2.6	2.9	3.4	2.3	4.4	3.3
6	AH-5021	2.9	4.4	2.3	5.7	3.8	3.0	3.0	5.0	3.2	3.0	4.2	3.6	4.0	3.8
7	IMHB 1537	2.3	3.5	2.1	4.8	3.2	3.1	3.1	5.2	2.9	3.0	3.5	2.3	4.5	3.6
8	GAYMH-1	2.3	4.0	1.5	3.5	2.8	2.9	2.9	5.5	2.3	3.6	2.3	1.7	2.5	3.0
9	IMHB 1532	2.6	3.8	1.4	3.4	2.8	3.2	3.2	5.7	2.2	2.3	2.7	3.8	3.2	3.3
10	IMHB 1529	2.7	4.7	1.6	3.2	3.1	2.8	2.8	4.9	2.8	2.5	3.8	5.6	5.1	4.1
11	BVM-2	2.5	4.5	3.6	2.7	3.3	3.2	3.2	5.0	3.2	3.7	3.6	4.4	4.2	4.0
12	MBC 11-15	1.8	4.3	1.6	3.7	2.8	2.5	2.5	5.3	2.3	2.3	1.6	2.5	2.5	2.8
13	DMRHB 1305	2.4	3.8	1.8	3.4	2.8	3.1	3.1	4.4	2.9	2.4	3.7	3.7	4.3	3.6
	CHECKS														
14	HM 4(C)	2.0	4.2	2.3	2.2	2.7	3.1	3.1	5.1	2.7	2.5	3.6	2.5	4.8	3.5
	Loc. Mean	**2.3**	**4.2**	**2.2**	**3.9**	**3.1**	**2.8**	**2.8**	**5.1**	**2.8**	**2.9**	**3.4**	**3.3**	**4.1**	**3.6**
	C.D. (5%)	0.30	0.81	0.26	1.05	0.89	0.36	1.74	0.87	0.12	0.48	0.90	0.95	1.94	0.85
	C.V. (%)	7.70	9.08	5.51	15.91	19.88	7.76	15.94	10.10	2.53	9.90	15.82	17.11	28.42	19.15
	F (Prob)	0.00	0.14	0.00	0.00	0.28	0.00	0.24	0.05	0.00	0.00	0.00	0.00	0.07	0.03

Table No. 21 (Cont

S.No	PEDIGREE	COB DIAMETER OF BABY CORN (cm) HYDE	KARI	DHAR	KOLH	MAND	COIM	RAHU	PZ ZN 4 Mean	UDAI	BANS	AMBI	GODH	CWZ ZN 5 Mean	OV'L Mean
1	IMHB 1538	6.4	3.7	5.7	6.6	6.2	10.5	2.4	5.9	5.2	3.6	2.5	2.7	3.5	3.6
2	IMHB 1525	3.6	4.2	6.9	6.6	5.1	6.8	3.0	5.2	4.2	3.3	2.1	2.8	3.1	3.6
3	IMHB 1531	5.3	4.3	5.5	7.4	5.1	11.5	3.1	6.0	5.9	3.7	2.3	3.6	3.9	4.0
4	AH-7043	5.7	2.0	4.2	4.6	4.6	8.2	2.6	4.6	5.1	3.4	2.5	2.7	3.4	3.5
5	IMHB 1539	4.6	2.7	6.3	4.5	4.7	8.3	2.8	4.8	4.2	3.7	2.2	3.7	3.5	3.5
6	AH-5021	4.3	4.7	6.6	6.8	5.1	9.4	2.4	5.6	4.6	3.2	1.7	2.6	3.0	3.9
7	IMHB 1537	4.6	3.2	5.2	6.0	5.6	9.6	2.6	5.3	4.1	3.2	1.8	3.6	3.2	3.7
8	GAYMH-1	5.0	3.6	6.9	6.3	5.5	8.4	4.1	5.7	3.8	3.5	2.0	2.3	2.9	3.5
9	IMHB 1532	4.5	2.9	6.5	5.9	4.7	9.6	3.3	5.3	5.6	3.3	2.6	3.3	3.7	3.7
10	IMHB 1529	5.8	3.3	6.0	7.9	5.4	11.1	2.7	6.0	3.7	3.5	2.4	4.2	3.5	3.9
11	BVM-2	4.5	2.9	5.0	4.4	4.9	7.4	2.3	4.5	4.3	3.1	2.4	2.5	3.1	3.6
12	MBC 11-15	3.5	2.2	5.5	4.5	5.2	6.9	3.4	4.5	4.2	3.2	1.9	3.1	3.1	3.1
13	DMRHB 1305	4.6	3.8	4.0	6.3	8.8	8.2	2.4	5.4	3.2	3.4	2.2	2.9	2.9	3.6
	CHECKS														
14	HM 4(C)	4.5	2.9	5.3	5.2	6.7	4.3	3.1	4.6	4.9	3.5	2.3	3.8	3.6	3.5
	Loc. Mean	**4.8**	**3.3**	**5.7**	**5.9**	**5.5**	**8.6**	**2.9**	**5.2**	**4.5**	**3.4**	**2.2**	**3.1**	**3.3**	**3.6**
	C.D. (5%)	1.83	0.76	1.47	2.05	0.82	0.83	0.89	1.44	0.50	0.53	0.34	2.20	1.12	0.55
	C.V. (%)	22.77	13.69	15.48	20.62	8.88	5.78	18.49	21.89	6.62	9.26	9.17	42.05	15.33	19.10
	F (Prob)	0.13	0.00	0.00	0.02	0.00	0.00	0.02	0.39	0.00	0.42	0.00	0.84	0.35	0.01

Table No. 21 (Contd.)

Sl No	PEDIGREE	FODDER YIELD (kg/ha) NHZ(ZN 1) ALMO	BAJA	KANG	MEAN	NWPZ ZN 2 KARN	DELH	PANT	MEAN	DHOL	BHUB	RANC	NEPZ ZN 3 BAHR	KALY	SABO	MEAN
1	IMHB 1538	27778	32222	17882	25960.65	20597	41806	31333	31201	7778	17348	43264	24097	1374	9594	16408
2	IMHB 1525	40556	35556	14097	30069.44	19453	36528	37519	27991	8889	20514	50156	23056	1004	23149	17486
3	IMHB 1531	34611	45833	22000	34148.15	25375	40556	29074	32965	7778	17033	50903	24653	976.7	19743	16488
4	AH-7043	28222	30833	12326	23793.98	18660	35972	30185	27316	9167	16616	54396	20174	1158	18215	15319
5	IMHB 1539	34444	32778	14375	27199.07	20832	34583	26481	27708	9722	15151	41972	23785	1170	14023	16219
6	AH-5021	30000	35556	18681	28078.7	23101	35694	30148	29398	8333	17269	47014	23472	946.5	20002	16358
7	IMHB 1537	29222	33889	13507	25539.35	22823	34028	27926	28425	10833	19855	49056	21563	1031	17354	17417
8	GAYMH-1	33500	35000	19618	29372.69	27602	45417	33630	36509	9722	16490	46993	22569	1259	17917	16261
9	IMHB 1532	40444	42778	17847	33689.81	21610	42778	34370	32194	9167	19281	44264	25972	897.2	14064	18140
10	IMHB 1529	31278	30833	15104	25738.43	27856	43611	31556	35734	8611	20347	38528	23368	1003	15547	17442
11	BVM-2	29889	25000	22431	25773.15	20638	34028	27593	27333	8056	18490	41660	25729	1283	14163	17425
12	MBC 11-15	33833	31111	17778	27574.07	20313	30278	23611	25295	8611	16299	40924	22257	1385	10316	15722
13	DMRHB 1305	32778	27222	15278	25092.59	23375	27639	36481	25507	9722	16677	45469	18646	1116	11306	15015
	CHECKS															
14	HM 4 (C)	33333	34944	21042	29773.15	19355	42361	35593	30858	8056	19243	35521	23611	1334	15594	16970
	Location Mean	**32849**	**33825**	**17283**	**27985.95**	**22256**	**37520**	**31107**	**29888**	**8889**	**17901**	**45008**	**23068**	**1138**	**15785**	**16619**
	C.D. (5%)	96	330	130	185	327	195	674	218	219	63	285	197	1568	472	160
	C.V. (%)	7.89	12.11	5.63	**-**	10.37	9.91	**21.28**	**-**	7.21	6.03	**24.65**	12.76	**34.57**	**30.79**	**-**
	F (Prob)	0	0.03	0		0	0	0		0	0	0.004	0	0.918	0.02	
	Plot Size	6	6	7.2	-	9.6	12	9	-	12	9.6	4.8	9.6	9.6	9.6	-
	AGRONOMY DATA															
	Sowing Date	4-07	30-06	24-06	-	3-07	8-07	29-06	-	7-07	7-07	7-07	24-06	24-06	2-07	-
	Harvest Date	-	-	-	-	-	-	-	-	5-09	2-09	20-08	12-08	-	-	-
	Irrigation Nos	-	3	-	-	5	-	-	-	1	-	-	-	-	3	-
	Ferilizer Applied N	100	120	150	-	150	-	120	-	120	120	120	120	150	130	-
	Ferilizer Applied P	60	60	60	-	60	-	60	-	60	60	60	60	75	40	-
	Ferilizer Applied K	40	40	40	-	60	-	40	-	40	60	40	60	75	30	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : PANT 21.3 %: RANC 24.7 %: KALY 34.6 %:
SABO 30.8 %: HYDE 23.1 %: MAND 26.3 %: RAHU 23.3 %: GODH 40.3 %

Table No. 21 (Contd.)

Sl No	PEDIGREE	FODDER YIELD (kg/ha) HYDE	KOLH	MAND	COIM	RAHU	PZ ZN 4 MEAN	UDAI	GODH	CWZ ZN 5 MEAN	OV'L MEAN
1	IMHB 1538	16167	17986	29194	24712	22685	21349	14757	6875	14757	21935
2	IMHB 1525	13389	22882	34340	21938	22546	22410	10486	5486	10486	21688
3	IMHB 1531	11083	22118	25139	23361	22361	22740	17431	7743	17431	24754
4	AH-7043	12778	19201	25243	26969	22593	23085	9427	6528	9427	19788
5	IMHB 1539	15167	19861	28872	24302	21759	22082	16510	6146	16510	21944
6	AH-5021	12806	25868	40729	24514	26296	25191	9462	5972	9462	21697
7	IMHB 1537	12028	20104	33972	25566	19213	22835	14132	6181	14132	21670
8	GAYMH-1	12083	21285	33507	24955	25903	23120	11042	5382	11042	23261
9	IMHB 1532	16056	24375	40278	24882	29444	24628	12569	6597	12569	24244
10	IMHB 1529	9167	20000	28663	24774	24444	22387	10833	8472	10833	22427
11	BVM-2	12028	11354	22153	17309	18194	14332	11111	7014	11111	19195
12	MBC 11-15	14500	11250	25583	17677	22454	14464	16667	6319	16667	19944
13	DMRHB 1305	14222	17500	24306	21816	20741	19658	9444	8403	9444	18943
	CHECKS										
14	HM 4 (C)	13806	20243	30760	18688	26065	19465	12569	8403	12569	21927
	Location Mean	**13234**	**19573**	**30196**	**22962**	**23193**	**21267**	**12603**	**6823**	**12603**	**21673**
	C.D. (5%)	274	299	395	299	429	259	208	1113	250	212
	C.V. (%)	**23.15**	18.04	**26.33**	18.04	**23.3**	**-**	10.36	**40.29**	**-**	-
	F (Prob)	0.012	0.001	0.242	0.001	0		0	0.307		
	Plot Size	12	9.6	9.6	9.6	7.2	-	9.6	9.6	-	-
	AGRONOMY DATA										
	Sowing Date	11-07	28-07	2-08	19-07	8-08	-	5-07	8-07	-	-
	Harvest Date	29-08	-	17-09	9-12	-	-	2-09	-	-	-
	Irrigation Nos	4	-	4	-	2	-	1	-	-	-
	Ferilizer Applied N	200	120	150	120	120	-	90	120	-	-
	Ferilizer Applied P	60	60	75	60	60	-	60	60	-	-
	Ferilizer Applied K	50	40	40	40	40	-	-	-	-	-

Table No. 21 (Contd.)

S.No	PEDIGREE	DAYS TO 50% SILKING				NHZ ZN 1			NWPZ ZN 2							NEPZ ZN 3					PZ ZN 4			CWZ ZN 5	OV'L
		ALMO	BAJA	KANG	IMPH	Mean	DELH	PANT	Mean	BHUB	RANC	VARA	BAHR	KALY	SABO	Mean	HYDE	KOLH	MAND	COIM	Mean	UDAI	AMBI	Mean	Mean
1	IMHB 1538	58.7	55.0	56.0	50.0	54.9	47.3	52.7	43.4	54.0	50.7	50.3	56.7	54.3	51.0	52.8	53.7	55.7	50.0	48.7	52.0	59.3	49.3	54.3	51.8
2	IMHB 1525	62.3	55.0	48.0	50.3	53.9	49.7	54.3	44.6	53.0	53.7	55.0	57.3	43.3	56.3	53.1	58.3	59.3	52.7	51.7	55.5	56.3	52.7	54.5	52.6
3	IMHB 1531	60.3	56.5	50.0	50.7	54.4	47.0	54.3	44.0	54.0	51.0	52.3	60.0	48.7	52.3	53.1	53.7	55.7	50.3	48.7	52.1	56.7	49.7	53.2	51.7
4	AH-7043	61.3	55.0	54.5	50.3	55.3	48.0	52.0	43.1	53.0	50.0	51.0	56.3	54.7	51.3	52.7	54.0	55.0	50.0	48.3	51.8	57.3	50.0	53.7	51.7
5	IMHB 1539	59.3	52.5	50.5	54.3	54.2	47.7	53.7	43.4	53.0	53.7	53.7	59.3	50.3	54.0	54.0	57.0	58.0	52.0	51.7	54.7	57.0	52.3	54.7	52.6
6	AH-5021	61.0	51.5	54.5	54.0	55.3	48.0	56.3	44.4	54.0	54.0	53.0	59.3	51.3	55.7	54.6	55.7	59.3	54.0	50.3	54.8	56.7	51.7	54.2	53.1
7	IMHB 1537	59.3	56.5	50.5	56.3	55.7	48.7	54.7	43.9	54.0	54.0	53.0	62.3	50.0	52.7	54.3	57.7	56.7	52.7	50.3	54.3	60.7	53.0	56.8	53.2
8	GAYMH-1	61.3	57.0	53.5	58.3	57.5	48.7	54.3	44.3	53.0	54.0	54.3	61.3	52.3	55.7	55.1	55.7	55.7	52.3	51.0	53.7	57.3	53.0	55.2	53.6
9	IMHB 1532	63.3	56.0	53.5	56.7	57.4	49.0	57.3	45.6	52.7	56.7	55.7	58.3	53.7	56.3	55.6	54.7	61.0	53.7	52.3	55.4	56.7	53.7	55.2	54.3
10	IMHB 1529	60.0	58.0	52.5	56.7	56.8	47.3	52.7	43.1	54.0	52.3	51.0	55.3	53.0	53.0	53.1	54.0	56.3	50.0	48.7	52.3	56.0	49.7	52.8	52.1
11	BVM-2	55.7	56.0	50.5	56.7	54.7	43.3	48.3	40.2	52.0	46.3	48.3	50.7	50.3	46.7	49.1	49.0	49.7	45.3	42.3	46.6	55.3	43.0	49.2	48.3
12	MBC 11-15	60.3	57.0	57.5	59.0	58.5	48.7	53.0	43.6	55.0	52.0	52.3	59.7	51.3	53.3	53.9	55.7	55.7	50.3	48.7	52.6	58.0	49.7	53.8	53.0
13	DMRHB 1305	59.0	59.5	51.0	59.0	57.1	47.0	52.3	42.8	54.0	51.7	53.0	53.3	46.0	51.0	51.5	53.3	53.3	49.7	48.7	51.3	57.0	50.0	53.5	51.5
	CHECKS																								
14	HM 4(C)	60.3	56.0	53.5	60.3	57.5	48.3	54.3	44.1	54.0	54.0	54.3	57.0	53.3	55.7	54.7	56.0	58.3	53.3	52.3	55.0	56.3	52.7	54.5	53.7
	Loc. Mean	**60.2**	**55.8**	**52.6**	**55.2**	**55.9**	**47.8**	**53.6**	**43.6**	**53.5**	**52.4**	**52.7**	**57.6**	**50.9**	**53.2**	**53.4**	**54.9**	**56.4**	**51.2**	**49.5**	**53.0**	**57.2**	**50.7**	**54.0**	**52.4**
	C.D. (5%)	1.27	3.81	1.66	2.81	3.55	1.48	3.08	1.98	3.36	1.36	2.62	1.89	4.86	1.82	2.40	2.55	2.89	2.38	0.95	1.34	1.49	1.02	4.04	1.24
	C.V. (%)	1.26	3.16	1.47	3.03	4.44	1.85	3.43	2.71	3.74	1.55	2.97	1.95	5.69	2.04	3.90	2.76	3.06	2.77	1.14	1.77	1.56	1.20	3.46	3.70
	F (Prob)	0.00	0.04	0.00	0.00	0.19	0.00	0.00	0.01	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00

Table No. 21 (Contd.)

		PLANT HEIGHT(cm)				NHZ				NWPZ							NEPZ
						CWZ				ZN 2							ZN 3
S.No.	PEDIGREE	ALMO	BAJA	KANG	IMPH	Mean	KARN	DELH	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	KALY	SABO	Mean
1	IMHB 1538	200.0	210.0	215.0	174.3	199.8	136.3	174.3	195.0	168.6	122.0	136.7	175.9	171.7	156.8	118.1	144.3	146.5
2	IMHB 1525	213.3	207.5	174.5	181.8	194.3	164.3	210.3	247.3	207.3	119.3	136.7	168.2	183.3	153.5	106.2	155.7	146.1
3	IMHB 1531	205.0	210.0	160.0	191.6	191.6	150.3	167.0	173.0	163.4	107.3	136.3	169.3	160.0	147.1	104.6	140.0	137.8
4	AH-7043	195.0	220.0	214.0	184.2	203.3	145.7	180.7	191.0	172.4	120.0	131.3	164.6	145.0	138.3	136.0	135.3	138.7
5	IMHB 1539	223.3	212.5	166.0	183.2	196.3	157.7	190.3	228.7	192.2	116.7	139.0	171.7	170.0	146.0	123.8	152.7	145.7
6	AH-5021	231.7	190.0	208.5	184.6	203.7	174.3	220.0	243.7	212.7	122.3	139.7	181.7	201.7	151.5	114.5	180.3	156.0
7	IMHB 1537	208.3	225.0	180.0	188.9	200.6	180.0	188.7	239.0	202.6	119.7	135.0	174.9	161.7	141.1	118.1	156.7	143.9
8	GAYMH-1	205.0	220.0	208.5	184.7	204.5	159.3	217.3	239.0	205.2	122.0	134.0	174.5	193.3	155.8	134.6	168.3	154.7
9	IMHB 1532	216.7	217.5	215.0	179.9	207.3	156.7	220.7	226.3	201.2	114.3	140.3	185.9	195.0	173.1	119.4	169.0	156.7
10	IMHB 1529	191.7	220.0	212.0	174.3	199.5	168.0	176.7	180.0	174.9	104.3	137.7	167.1	155.0	139.8	115.5	141.0	137.2
11	BVM-2	193.3	205.0	181.5	172.8	188.2	144.0	189.0	205.0	179.3	113.3	137.3	167.5	161.7	172.8	118.7	143.3	145.0
12	MBC 11-15	208.3	220.0	217.0	161.7	201.7	166.3	192.7	196.3	185.1	123.7	134.0	175.0	170.0	151.4	139.0	149.7	149.0
13	DMRHB 1305	185.0	215.0	177.5	170.1	186.9	144.3	171.3	216.3	177.3	112.0	133.3	170.0	148.3	135.1	136.8	130.3	138.0
	CHECKS																	
14	HM 4(C)	211.7	187.5	190.5	170.9	190.1	158.7	195.3	238.0	197.3	118.0	130.7	170.3	176.7	160.9	132.0	157.3	149.4
	Loc. Mean	**206.3**	**211.4**	**194.3**	**178.8**	**197.7**	**157.6**	**192.5**	**215.6**	**188.5**	**116.8**	**135.9**	**172.6**	**171.0**	**151.7**	**122.7**	**151.7**	**146.0**
	C.D. (5%)	16.17	30.32	7.61	7.09	20.42	18.30	13.29	20.80	22.24	7.84	5.15	12.56	19.16	5.15	17.53	14.33	10.03
	C.V. (%)	4.67	6.64	1.81	2.36	7.22	6.92	4.11	5.75	7.03	4.00	2.26	4.34	6.68	2.02	8.52	5.63	6.45
	F (Prob)	0.00	0.34	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.00	0.00	0.00	0.00	0.00

Table No. 21 (Contd.)

		PLANT HEIGHT(cm)					PZ					CWZ	
							ZN 4					ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KOLH	MAND	COIM	RAHU	Mean	UDAI	CHHI	AMBI	GODH	Mean	Mean
1	IMHB 1538	170.8	131.7	172.0	147.5	183.0	161.0	195.0	174.3	204.7	123.7	174.4	166.7
2	IMHB 1525	167.2	150.0	194.0	129.5	222.3	172.6	175.0	206.0	188.2	120.0	172.3	172.8
3	IMHB 1531	162.6	131.7	162.0	141.1	184.7	156.4	200.0	153.0	166.7	111.0	157.7	158.0
4	AH-7043	162.9	143.3	173.0	159.7	181.7	164.1	185.0	152.3	168.7	115.3	155.4	162.7
5	IMHB 1539	184.1	148.3	182.0	157.4	214.3	177.2	203.3	148.3	195.3	128.7	168.9	171.5
6	AH-5021	198.0	183.3	215.3	159.9	230.3	197.4	166.7	226.7	215.4	138.0	186.7	186.0
7	IMHB 1537	171.3	163.3	192.3	180.9	210.7	183.7	205.0	179.3	187.0	125.3	174.2	175.3
8	GAYMH-1	178.1	171.7	199.3	189.0	215.3	190.7	156.7	175.3	210.0	127.0	167.3	180.0
9	IMHB 1532	168.3	173.3	186.7	169.5	215.3	182.6	175.0	202.3	211.7	126.0	178.8	180.8
10	IMHB 1529	147.4	121.7	175.0	149.0	192.7	157.2	170.0	146.3	162.9	107.7	146.7	158.9
11	BVM-2	170.1	133.3	188.0	153.5	199.3	168.8	153.3	149.7	178.7	133.7	153.8	163.7
12	MBC 11-15	160.7	145.0	177.0	165.5	213.3	172.3	191.7	160.7	194.5	143.7	172.6	172.0
13	DMRHB 1305	178.5	123.3	173.3	153.3	181.0	161.9	161.7	169.3	174.8	115.3	155.3	159.8
	CHECKS												
14	HM 4(C)	181.2	145.0	189.7	162.0	214.3	178.4	171.7	187.0	191.1	123.7	168.4	172.3
	Loc. Mean	**171.5**	**147.5**	**184.3**	**158.4**	**204.2**	**173.2**	**179.3**	**173.6**	**189.3**	**124.2**	**166.6**	**170.0**
	C.D. (5%)	26.89	25.27	20.27	9.15	22.71	13.08	8.83	14.86	17.91	20.98	23.46	7.34
	C.V. (%)	9.34	10.21	6.56	3.44	6.63	5.95	2.94	5.10	5.64	10.06	9.85	7.44
	F (Prob)	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.00

Table No. 21 (Contd.)

		EAR HEIGHT(cm)			NHZ				NWPZ							NEPZ
					ZN 1				ZN 2							ZN 3
S.No.	PEDIGREE	BAJA	KANG	IMPH	Mean	KARN	DELH	PANT	Mean	DHOL	BHUB	RANC	VARA	BAHR	KALY	SABO	Mean
1	IMHB 1538	127.5	122.5	64.3	104.8	61.0	94.7	74.0	76.6	60.7	51.7	86.9	100.0	62.1	71.2	71.3	72.0
2	IMHB 1525	110.0	88.5	71.8	90.1	82.3	112.3	95.0	96.6	58.7	51.3	85.5	98.3	56.0	47.9	80.0	68.3
3	IMHB 1531	115.0	93.5	81.6	96.7	74.0	91.0	68.0	77.7	52.7	51.3	78.4	90.0	52.7	46.5	70.0	63.1
4	AH-7043	127.5	107.0	74.2	102.9	65.3	88.3	65.7	73.1	58.0	49.7	68.1	75.0	41.0	61.8	59.7	59.0
5	IMHB 1539	122.5	79.5	73.2	91.7	78.7	105.0	82.0	88.6	55.3	55.3	87.1	88.3	54.0	55.9	71.7	66.8
6	AH-5021	100.0	106.5	74.6	93.7	89.3	112.0	87.0	96.1	57.7	52.7	89.5	95.0	67.1	51.6	83.3	71.0
7	IMHB 1537	127.5	95.5	78.9	100.6	86.7	100.0	84.7	90.4	60.0	55.0	78.3	83.3	66.0	54.3	78.7	67.9
8	GAYMH-1	112.5	103.0	74.7	96.7	82.0	121.3	93.3	98.9	59.3	54.7	84.6	108.3	51.7	61.2	83.3	71.9
9	IMHB 1532	117.5	112.5	69.9	100.0	73.3	123.7	101.7	99.6	54.0	52.3	99.9	98.3	75.0	54.3	82.7	73.8
10	IMHB 1529	122.5	96.5	64.3	94.4	82.0	93.7	74.0	83.2	50.7	49.3	76.7	83.3	55.8	52.5	66.3	62.1
11	BVM-2	115.0	91.5	62.8	89.8	64.0	91.0	74.3	76.4	54.0	51.3	69.0	85.0	56.5	53.2	63.0	61.7
12	MBC 11-15	117.5	116.0	51.7	95.1	78.0	107.7	67.3	84.3	60.7	51.3	81.8	86.7	64.8	63.2	74.3	69.0
13	DMRHB 1305	122.5	97.5	60.1	93.4	69.7	86.3	78.7	78.2	57.3	51.7	70.6	80.0	51.9	61.8	66.0	62.7
	CHECKS																
14	HM 4(C)	105.0	103.5	60.9	89.8	84.7	106.3	84.3	91.8	59.0	54.3	86.1	90.0	65.5	59.5	76.0	70.1
	Loc. Mean	**117.3**	**101.0**	**68.8**	**95.7**	**76.5**	**102.4**	**80.7**	**86.5**	**57.0**	**52.3**	**81.6**	**90.1**	**58.6**	**56.8**	**73.3**	**67.1**
	C.D. (5%)	21.22	10.29	7.09	16.88	16.63	9.29	11.95	11.33	6.93	3.91	9.21	15.95	6.19	8.21	9.28	6.20
	C.V. (%)	8.37	4.72	6.14	10.51	12.96	5.41	8.82	7.80	7.25	4.46	6.73	10.54	6.29	8.62	7.54	8.68
	F (Prob)	0.24	0.00	0.00	0.74	0.03	0.00	0.00	0.00	0.11	0.07	0.00	0.02	0.00	0.00	0.00	0.00

Locations Rejected due to High C.V. : KOLHAPUR 21.4%

Table No. 21 (Contd.)

		EAR HEIGHT(cm)					PZ					CWZ	
							ZN 4					ZN 5	OV'L
S.No.	PEDIGREE	HYDE	KOLH	MAND	COIM	RAHU	Mean	UDAI	CHHI	AMBI	GODH	Mean	Mean
1	IMHB 1538	63.7	53.3	92.7	81.5	87.0	81.2	105.0	92.7	79.9	60.0	84.4	81.4
2	IMHB 1525	72.7	71.7	97.0	68.3	109.0	86.8	85.0	84.0	70.7	51.0	72.7	79.8
3	IMHB 1531	64.0	60.0	88.0	50.3	79.0	70.3	98.3	55.0	61.4	47.7	65.6	71.8
4	AH-7043	64.3	68.3	90.0	79.9	68.0	75.6	83.3	71.7	59.3	45.3	64.9	71.6
5	IMHB 1539	72.7	70.0	94.3	90.0	91.3	87.1	100.0	74.7	68.5	53.7	74.2	78.8
6	AH-5021	81.6	85.0	106.7	79.0	112.0	94.8	81.7	100.7	76.5	56.7	78.9	83.9
7	IMHB 1537	63.9	88.3	95.7	90.9	94.0	86.1	101.7	80.3	68.0	47.0	74.3	80.5
8	GAYMH-1	75.0	93.3	118.7	99.6	103.0	99.1	76.7	74.7	85.7	55.0	73.0	84.7
9	IMHB 1532	71.3	91.7	98.7	89.6	107.3	91.7	76.7	93.3	92.7	64.3	81.8	86.1
10	IMHB 1529	53.0	66.7	81.3	77.5	90.3	75.5	83.3	61.3	62.3	45.3	63.1	72.5
11	BVM-2	67.3	65.0	73.3	85.1	87.3	78.3	75.0	80.0	67.1	56.0	69.5	72.5
12	MBC 11-15	72.1	68.3	88.3	89.2	95.0	86.2	100.0	66.0	75.4	60.3	75.4	79.4
13	DMRHB 1305	66.2	53.3	73.0	72.5	74.3	71.5	75.0	91.3	62.8	49.3	69.6	72.3
	CHECKS												
14	HM 4(C)	73.2	75.0	83.7	82.8	103.7	85.8	75.0	87.7	72.7	51.0	71.6	79.3
	Loc. Mean	**68.6**	**72.1**	**91.5**	**81.2**	**93.0**	**83.6**	**86.9**	**79.5**	**71.6**	**53.0**	**72.8**	**78.2**
	C.D. (5%)	11.75	25.97	23.43	17.39	16.67	12.33	7.05	7.35	9.80	14.97	13.88	5.03
	C.V. (%)	10.20	21.45	15.25	12.77	10.69	10.32	4.83	5.51	8.15	16.81	13.34	10.58
	F (Prob)	0.01	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.12	0.00

TABLE No. 22 **PERFORMANCE OF LATE MATURITY EXPERIMENTAL HYBRIDS AT DHARWAD, VAGARAI, BANSAWARA, BHILODA, CHHINDWARA IN TRIAL No. TR RAINFED NORMAL SET LATE MATURITY DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE PZ(ZN 4) DHAR	R	VAGA	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	ADV 9293	7395	14	9980	7	8688	12	5826	10	6747	2	7867	3	4969	2	6813	1	7563	2
2	OMH 14-16 (CAH1424)	6256	30	8307	25	7281	29	5134	22	4887	10	5400	34	2148	32	5141	18	5997	22
3	OMH 14-27 (CAH1511)	8582	6	9243	13	8913	8	5505	13	7661	1	5733	25	6111	1	6300	4	7345	5
4	OMH 14-62 (CAH 142)	8255	9	10535	2	9395	3	4569	33	4137	15	8067	2	3470	10	5591	10	7112	7
5	RCRMH3 (CAH1526)	6998	24	9565	11	8282	15	5432	14	3552	24	6000	15	2054	33	4995	21	6309	17
6	RCRMH-4 (CAH1525)	8182	10	9163	14	8673	13	4378	34	4773	12	6533	9	2429	28	5228	15	6606	14
7	RCRMH-5 (CAH1535	6561	27	7788	29	7174	30	5372	15	3040	32	4733	38	2722	23	4382	35	5499	33
8	GK3206	9608	1	11023	1	10316	1	5546	12	4901	9	8800	1	3894	7	6416	3	7976	1
9	REH2014-5	4232	37	6609	36	5421	38	3738	39	2093	39	4867	37	2292	30	3566	39	4308	39
10	IMH 1619	6702	26	8467	22	7584	23	6340	3	3361	26	5933	19	3318	14	5211	16	6161	18
11	HQPM 1	7222	18	8191	27	7706	21	4923	26	3326	29	6000	16	3065	16	4750	28	5932	23
12	HQPM 4	5685	32	7226	33	6456	33	5161	21	3554	23	6267	12	3025	17	4994	22	5579	32
13	HQPM 5	6344	29	6415	37	6380	34	6390	2	3510	25	6133	14	2905	21	5345	14	5759	28
14	HQPM 7	7009	23	8495	21	7752	20	4961	24	3686	22	5867	23	2694	24	4838	25	6004	21
15	HM 11	6871	25	9134	15	8002	18	6393	1	4581	13	7133	7	1947	35	6036	5	6822	11
16	REH2014-4	7086	20	5892	38	6489	32	6087	6	2543	38	5800	24	2541	26	4810	27	5482	34
17	OMH 14-30(CAH 1514)	6484	28	9784	9	8134	17	4789	28	5216	7	6400	10	2591	25	5468	12	6534	15
18	DMH-24	7019	22	8260	26	7640	22	4790	27	3337	28	5933	18	3074	15	4687	29	5868	25
19	DMRH1302	5644	33	8356	24	7000	31	5067	23	3757	21	6400	11	3362	13	5075	19	5845	26
20	IMH 1618	7234	17	7821	28	7527	24	5334	17	4016	19	5667	27	4958	3	5005	20	6014	20
21	IMH 1626	5963	31	8824	17	7393	28	4376	35	4278	14	6000	17	3480	9	4885	24	5888	24
22	IMH1526	9033	4	8988	16	9011	7	5913	8	2804	34	5733	26	2957	19	4817	26	6494	16
23	IMH1533	7678	12	8711	18	8194	16	4747	30	2633	37	5200	36	4103	6	4193	37	5794	27
24	HM 4	5095	36	5857	39	5476	37	4005	37	3295	30	4533	39	3860	8	3944	38	4557	38
25	CMH 08-292	8874	5	8687	19	8781	9	6299	4	6048	4	7467	5	4487	5	6605	2	7475	3
26	AQH4	7365	15	7449	32	7407	26	4680	31	2759	36	6267	13	2251	31	4569	33	5704	30
27	AQH8	5292	35	7020	34	6156	35	5348	16	2935	33	5600	29	1998	34	4628	31	5239	35
28	AQH9	7195	19	7600	31	7397	27	3992	38	3351	27	5933	20	2770	22	4425	34	5614	31
29	ADH1601	7554	13	9996	6	8775	10	6159	5	5009	8	5467	33	1930	36	5545	11	6837	10
30	ADH1602	8479	7	9873	8	9176	5	5975	7	4097	16	5400	35	1726	37	5157	17	6765	12

TABLE No. 22 **PERFORMANCE OF LATE MATURITY EXPERIMENTAL HYBRIDS AT DHARWAD, VAGARAI, BANSAWARA, BHILODA, CHHINDWARA IN TRIAL No. TR RAINFED NORMAL SET LATE MATURITY DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE														CWZ			
		PZ(ZN 4)														ZN 5		OV'L	
		DHAR	R	VAGA	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	MEAN	R	MEAN	R
31	ADH1603	5450	34	9445	12	7448	25	4055	36	4080	17	5667	28	1569	38	4600	32	5739	29
32	ADH1604	3592	39	6721	35	5157	39	4602	32	2760	35	5600	30	1258	39	4321	36	4655	37
	CHECKS																		
33	PMH-1(C)	8417	8	8363	23	8390	14	5294	18	4068	18	7533	4	2995	18	5632	9	6735	13
34	CMH 08-282(C)	9091	2	9999	5	9545	2	4954	25	5567	5	7133	6	3451	11	5885	7	7349	4
35	CMH 08-287(C)	7929	11	10101	4	9015	6	5887	9	5348	6	6733	8	3375	12	5989	6	7200	6
36	Seed tech 2324(C)	7064	21	10383	3	8723	11	5228	20	6291	3	5533	32	2435	27	5684	8	6900	9
37	HM 9(C)	3963	38	7663	30	5813	36	4764	29	3189	31	5933	21	2374	29	4629	30	5102	36
38	DHM 121(C)	7319	16	8573	20	7946	19	5277	19	3913	20	5600	31	2928	20	4930	23	6137	19
39	BIO 9544(C)	9033	3	9634	10	9334	4	5555	11	4863	11	5933	22	4788	4	5451	13	7004	8
	Location Mean	**7019**		**8568**		**7794**		**5201**		**4102**		**6123**		**3033**		**5142**		**6203**	
	C.D. (5%)	2135		1156		1646		1471		678		1448		1578		1199		1378	
	C.V. (%)	15.01		6.66		**-**		13.96		8.16		11.67		**25.67**		**-**		-	
	F (Prob)	0		0				0.017		0		0		0					
	Plot Size	4.8		4.2		-		4.8		4.2		6		4.2		-		-	
	AGRONOMY DATA																		
	Sowing Date	15-07		14-10		-		6-07		5-07		1-07		-		-		-	
	Harvest Date	8-12		6-02		-		21-10		24-10		5-11		-		-		-	
	Irrigation Nos	-		12		-		-		2		-		-		-		-	
	Ferilizer Applied N	-		150		-		150		120		-		-		-		-	
	Ferilizer Applied P	-		75		-		80		60		-		-		-		-	
	Ferilizer Applied K	-		75		-		-		-		-		-		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V.: UDAI 25.7 %

TABLE No. 22 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-1(C)												CWZ			
		PZ(ZN 4)												ZN 5		OV'L	
		DHAR	R	VAGA	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	MEAN	R	MEAN	R
1	ADV 9293	-		19.3		3.5		10.1		65.9		4.4		65.9		21		12.3	
2	OMH 14-16 (CAH1424)	-		-		-		-		20.2		-		-		-		-	
3	OMH 14-27 (CAH1511)	2		10.5		6.2		4		88.3		-		104		11.9		9.1	
4	OMH 14-62 (CAH 142)	-		26		12		-		1.7		7.1		15.9		-		5.6	
5	RCRMH3 (CAH1526)	-		14.4		-		2.6		-		-		-		-		-	
6	RCRMH-4 (CAH1525)	-		9.6		3.4		-		17.4		-		-		-		-	
7	RCRMH-5 (CAH1535	-		-		-		1.5		-		-		-		-		-	
8	GK3206	14.2		31.8		23		4.8		20.5		16.8		30		13.9		18.4	
9	REH2014-5	-		-		-		-		-		-		-		-		-	
10	IMH 1619	-		1.2		-		19.8		-		-		10.8		-		-	
11	HQPM 1	-		-		-		-		-		-		2.3		-		-	
12	HQPM 4	-		-		-		-		-		-		1		-		-	
13	HQPM 5	-		-		-		20.7		-		-		-		-		-	
14	HQPM 7	-		1.6		-		-		-		-		-		-		-	
15	HM 11	-		9.2		-		20.8		12.6		-		-		7.2		1.3	
16	REH2014-4	-		-		-		15		-		-		-		-		-	
17	OMH 14-30(CAH 1514)	-		17		-		-		28.2		-		-		-		-	
18	DMH-24	-		-		-		-		-		-		2.7		-		-	
19	DMRH1302	-		-		-		-		-		-		12.2		-		-	
20	IMH 1618	-		-		-		0.8		-		-		65.5		-		-	
21	IMH 1626	-		5.5		-		-		5.2		-		16.2		-		-	
22	IMH1526	7.3		7.5		7.4		11.7		-		-		-		-		-	
23	IMH1533	-		4.2		-		-		-		-		37		-		-	
24	HM 4	-		-		-		-		-		-		28.9		-		-	
25	CMH 08-292	5.4		3.9		4.7		19		48.7		-		49.8		17.3		11	
26	AQH4	-		-		-		-		-		-		-		-		-	
27	AQH8	-		-		-		1		-		-		-		-		-	
28	AQH9	-		-		-		-		-		-		-		-		-	
29	ADH1601	-		19.5		4.6		16.3		23.1		-		-		-		1.5	
30	ADH1602	0.7		18.1		9.4		12.9		0.7		-		-		-		0.4	
31	ADH1603	-		12.9		-		-		0.3		-		-		-		-	
32	ADH1604	-		-		-		-		-		-		-		-		-	
	CHECKS																		
33	PMH-1(C)	-		-		-		-		-		-		-		-		-	
34	CMH 08-282(C)	8		19.6		13.8		-		36.9		-		15.2		4.5		9.1	
35	CMH 08-287(C)	-		20.8		7.4		11.2		31.5		-		12.7		6.4		6.9	
36	Seed tech 2324(C)	-		24.2		4		-		54.7		-		-		0.9		2.4	
37	HM 9(C)	-		-		-		-		-		-		-		-		-	
38	DHM 121(C)	-		2.5		-		-		-		-		-		-		-	
39	BIO 9544(C)	7.3		15.2		11.2		4.9		19.6		-		59.9		-		4	

TABLE No. 22 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-282(C)												CWZ ZN 5 MEAN	R	OV'L MEAN	R
		DHAR	R	VAGA	R	PZ(ZN 4) MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R				
1	ADV 9293	-		-		-		17.6		21.2		10.3		44		15.8		2.9	
2	OMH 14-16 (CAH1424)	-		-		-		3.6		-		-		-		-		-	
3	OMH 14-27 (CAH1511)	-		-		-		11.1		37.6		-		77.1		7.1		-	
4	OMH 14-62 (CAH 142)	-		5.4		-		-		-		13.1		0.6		-		-	
5	RCRMH3 (CAH1526)	-		-		-		9.6		-		-		-		-		-	
6	RCRMH-4 (CAH1525)	-		-		-		-		-		-		-		-		-	
7	RCRMH-5 (CAH1535	-		-		-		8.4		-		-		-		-		-	
8	GK3206	5.7		10.2		8.1		11.9		-		23.4		12.9		9		8.5	
9	REH2014-5	-		-		-		-		-		-		-		-		-	
10	IMH 1619	-		-		-		28		-		-		-		-		-	
11	HQPM 1	-		-		-		-		-		-		-		-		-	
12	HQPM 4	-		-		-		4.2		-		-		-		-		-	
13	HQPM 5	-		-		-		29		-		-		-		-		-	
14	HQPM 7	-		-		-		0.1		-		-		-		-		-	
15	HM 11	-		-		-		29		-		-		-		2.6		-	
16	REH2014-4	-		-		-		22.9		-		-		-		-		-	
17	OMH 14-30(CAH 1514)	-		-		-		-		-		-		-		-		-	
18	DMH-24	-		-		-		-		-		-		-		-		-	
19	DMRH1302	-		-		-		2.3		-		-		-		-		-	
20	IMH 1618	-		-		-		7.7		-		-		43.7		-		-	
21	IMH 1626	-		-		-		-		-		-		0.9		-		-	
22	IMH1526	-		-		-		19.4		-		-		-		-		-	
23	IMH1533	-		-		-		-		-		-		18.9		-		-	
24	HM 4	-		-		-		-		-		-		11.9		-		-	
25	CMH 08-292	-		-		-		27.2		8.7		4.7		30		12.2		1.7	
26	AQH4	-		-		-		-		-		-		-		-		-	
27	AQH8	-		-		-		8		-		-		-		-		-	
28	AQH9	-		-		-		-		-		-		-		-		-	
29	ADH1601	-		-		-		24.3		-		-		-		-		-	
30	ADH1602	-		-		-		20.6		-		-		-		-		-	
31	ADH1603	-		-		-		-		-		-		-		-		-	
32	ADH1604	-		-		-		-		-		-		-		-		-	
	CHECKS																		
33	PMH-1(C)	-		-		-		6.9		-		5.6		-		-		-	
34	CMH 08-282(C)	-		-		-		-		-		-		-		-		-	
35	CMH 08-287(C)	-		1		-		18.8		-		-		-		1.8		-	
36	Seed tech 2324(C)	-		3.8		-		5.5		13		-		-		-		-	
37	HM 9(C)	-		-		-		-		-		-		-		-		-	
38	DHM 121(C)	-		-		-		6.5		-		-		-		-		-	
39	BIO 9544(C)	-		-		-		12.1		-		-		38.8		-		-	

TABLE No. 22 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-287(C)												CWZ ZN 5 MEAN	R	OV'L MEAN	R
		DHAR	R	VAGA	R	PZ(ZN 4) MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R				
1	ADV 9293	-		-		-		-		26.2		16.8		47.2		13.8		5	
2	OMH 14-16 (CAH1424)	-		-		-		-		-		-		-		-		-	
3	OMH 14-27 (CAH1511)	8.2		-		-		-		43.3		-		81		5.2		2	
4	OMH 14-62 (CAH 142)	4.1		4.3		4.2		-		-		19.8		2.8		-		-	
5	RCRMH3 (CAH1526)	-		-		-		-		-		-		-		-		-	
6	RCRMH-4 (CAH1525)	3.2		-		-		-		-		-		-		-		-	
7	RCRMH-5 (CAH1535	-		-		-		-		-		-		-		-		-	
8	GK3206	21.2		9.1		14.4		-		-		30.7		15.4		7.1		10.8	
9	REH2014-5	-		-		-		-		-		-		-		-		-	
10	IMH 1619	-		-		-		7.7		-		-		-		-		-	
11	HQPM 1	-		-		-		-		-		-		-		-		-	
12	HQPM 4	-		-		-		-		-		-		-		-		-	
13	HQPM 5	-		-		-		8.6		-		-		-		-		-	
14	HQPM 7	-		-		-		-		-		-		-		-		-	
15	HM 11	-		-		-		8.6		-		5.9		-		0.8		-	
16	REH2014-4	-		-		-		3.4		-		-		-		-		-	
17	OMH 14-30(CAH 1514)	-		-		-		-		-		-		-		-		-	
18	DMH-24	-		-		-		-		-		-		-		-		-	
19	DMRH1302	-		-		-		-		-		-		-		-		-	
20	IMH 1618	-		-		-		-		-		-		46.9		-		-	
21	IMH 1626	-		-		-		-		-		-		3.1		-		-	
22	IMH1526	13.9		-		-		0.4		-		-		-		-		-	
23	IMH1533	-		-		-		-		-		-		21.6		-		-	
24	HM 4	-		-		-		-		-		-		14.4		-		-	
25	CMH 08-292	11.9		-		-		7		13.1		10.9		32.9		10.3		3.8	
26	AQH4	-		-		-		-		-		-		-		-		-	
27	AQH8	-		-		-		-		-		-		-		-		-	
28	AQH9	-		-		-		-		-		-		-		-		-	
29	ADH1601	-		-		-		4.6		-		-		-		-		-	
30	ADH1602	6.9		-		1.8		1.5		-		-		-		-		-	
31	ADH1603	-		-		-		-		-		-		-		-		-	
32	ADH1604	-		-		-		-		-		-		-		-		-	
	CHECKS																		
33	PMH-1(C)	6.2		-		-		-		-		11.9		-		-		-	
34	CMH 08-282(C)	14.7		-		5.9		-		4.1		5.9		2.2		-		2.1	
35	CMH 08-287(C)	-		-		-		-		-		-		-		-		-	
36	Seed tech 2324(C)	-		2.8		-		-		17.6		-		-		-		-	
37	HM 9(C)	-		-		-		-		-		-		-		-		-	
38	DHM 121(C)	-		-		-		-		-		-		-		-		-	
39	BIO 9544(C)	13.9		-		3.5		-		-		-		41.9		-		-	

TABLE No. 22 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seed tech 2324(C) PZ(ZN 4) DHAR	R	VAGA	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	ADV 9293	4.7		-		-		11.4		7.2		42.2		104		19.9		9.6	
2	OMH 14-16 (CAH1424)	-		-		-		-		-		-		-		-		-	
3	OMH 14-27 (CAH1511)	21.5		-		2.2		5.3		21.8		3.6		150.9		10.8		6.5	
4	OMH 14-62 (CAH 142)	16.9		1.5		7.7		-		-		45.8		42.5		-		3.1	
5	RCRMH3 (CAH1526)	-		-		-		3.9		-		8.4		-		-		-	
6	RCRMH-4 (CAH1525)	15.8		-		-		-		-		18.1		-		-		-	
7	RCRMH-5 (CAH1535	-		-		-		2.8		-		-		11.8		-		-	
8	GK3206	36		6.2		18.3		6.1		-		59		59.9		12.9		15.6	
9	REH2014-5	-		-		-		-		-		-		-		-		-	
10	IMH 1619	-		-		-		21.3		-		7.2		36.2		-		-	
11	HQPM 1	2.2		-		-		-		-		8.4		25.9		-		-	
12	HQPM 4	-		-		-		-		-		13.3		24.2		-		-	
13	HQPM 5	-		-		-		22.2		-		10.8		19.3		-		-	
14	HQPM 7	-		-		-		-		-		6		10.6		-		-	
15	HM 11	-		-		-		22.3		-		28.9		-		6.2		-	
16	REH2014-4	0.3		-		-		16.4		-		4.8		4.3		-		-	
17	OMH 14-30(CAH 1514)	-		-		-		-		-		15.7		6.4		-		-	
18	DMH-24	-		-		-		-		-		7.2		26.2		-		-	
19	DMRH1302	-		-		-		-		-		15.7		38		-		-	
20	IMH 1618	2.4		-		-		2		-		2.4		103.6		-		-	
21	IMH 1626	-		-		-		-		-		8.4		42.9		-		-	
22	IMH1526	27.9		-		3.3		13.1		-		3.6		21.4		-		-	
23	IMH1533	8.7		-		-		-		-		-		68.5		-		-	
24	HM 4	-		-		-		-		-		-		58.5		-		-	
25	CMH 08-292	25.6		-		0.7		20.5		-		34.9		84.2		16.2		8.3	
26	AQH4	4.3		-		-		-		-		13.3		-		-		-	
27	AQH8	-		-		-		2.3		-		1.2		-		-		-	
28	AQH9	1.9		-		-		-		-		7.2		13.8		-		-	
29	ADH1601	6.9		-		0.6		17.8		-		-		-		-		-	
30	ADH1602	20		-		5.2		14.3		-		-		-		-		-	
31	ADH1603	-		-		-		-		-		2.4		-		-		-	
32	ADH1604	-		-		-		-		-		1.2		-		-		-	
	CHECKS																		
33	PMH-1(C)	19.2		-		-		1.3		-		36.1		23		-		-	
34	CMH 08-282(C)	28.7		-		9.4		-		-		28.9		41.7		3.5		6.5	
35	CMH 08-287(C)	12.3		-		3.3		12.6		-		21.7		38.6		5.4		4.3	
36	Seed tech 2324(C)	-		-		-		-		-		-		-		-		-	
37	HM 9(C)	-		-		-		-		-		7.2		-		-		-	
38	DHM 121(C)	3.6		-		-		0.9		-		1.2		20.2		-		-	
39	BIO 9544(C)	27.9		-		7		6.3		-		7.2		96.6		-		1.5	

TABLE No. 22 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 9(C)												CWZ ZN 5		OV'L MEAN	
		PZ(ZN 4)															
		DHAR	R	VAGA	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	MEAN	R	MEAN	R
1	ADV 9293	86.6		30.2		49.4		22.3		111.6		32.6		109.2		47.2		48.2	
2	OMH 14-16 (CAH1424)	57.9		8.4		25.3		7.8		53.3		-		-		11.1		17.5	
3	OMH 14-27 (CAH1511)	116.5		20.6		53.3		15.6		140.2		-		157.3		36.1		43.9	
4	OMH 14-62 (CAH 142)	108.3		37.5		61.6		-		29.7		36		46.1		20.8		39.4	
5	RCRMH3 (CAH1526)	76.6		24.8		42.5		14		11.4		1.1		-		7.9		23.7	
6	RCRMH-4 (CAH1525)	106.5		19.6		49.2		-		49.7		10.1		2.3		13		29.5	
7	RCRMH-5 (CAH1535	65.6		1.6		23.4		12.8		-		-		14.7		-		7.8	
8	GK3206	142.4		43.8		77.5		16.4		53.7		48.3		64		38.6		56.3	
9	REH2014-5	6.8		-		-		-		-		-		-		-		-	
10	IMH 1619	69.1		10.5		30.5		33.1		5.4		-		39.7		12.6		20.7	
11	HQPM 1	82.2		6.9		32.6		3.3		4.3		1.1		29.1		2.6		16.3	
12	HQPM 4	43.5		-		11.1		8.3		11.5		5.6		27.4		7.9		9.3	
13	HQPM 5	60.1		-		9.7		34.1		10.1		3.4		22.3		15.5		12.9	
14	HQPM 7	76.9		10.9		33.4		4.1		15.6		-		13.5		4.5		17.7	
15	HM 11	73.4		19.2		37.7		34.2		43.7		20.2		-		30.4		33.7	
16	REH2014-4	78.8		-		11.6		27.8		-		-		7		3.9		7.4	
17	OMH 14-30(CAH 1514)	63.6		27.7		39.9		0.5		63.6		7.9		9.1		18.1		28.1	
18	DMH-24	77.1		7.8		31.4		0.5		4.7		-		29.5		1.3		15	
19	DMRH1302	42.4		9		20.4		6.3		17.8		7.9		41.6		9.6		14.5	
20	IMH 1618	82.5		2.1		29.5		12		25.9		-		108.8		8.1		17.9	
21	IMH 1626	50.4		15.2		27.2		-		34.1		1.1		46.6		5.5		15.4	
22	IMH1526	127.9		17.3		55		24.1		-		-		24.5		4.1		27.3	
23	IMH1533	93.7		13.7		41		-		-		-		72.8		-		13.5	
24	HM 4	28.6		-		-		-		3.3		-		62.6		-		-	
25	CMH 08-292	123.9		13.4		51.1		32.2		89.7		25.8		89		42.7		46.5	
26	AQH4	85.8		-		27.4		-		-		5.6		-		-		11.8	
27	AQH8	33.5		-		5.9		12.3		-		-		-		-		2.7	
28	AQH9	81.5		-		27.3		-		5.1		-		16.7		-		10	
29	ADH1601	90.6		30.4		51		29.3		57.1		-		-		19.8		34	
30	ADH1602	113.9		28.8		57.8		25.4		28.5		-		-		11.4		32.6	
31	ADH1603	37.5		23.3		28.1		-		27.9		-		-		-		12.5	
32	ADH1604	-		-		-		-		-		-		-		-		-	
	CHECKS																		
33	PMH-1(C)	112.4		9.1		44.3		11.1		27.6		27		26.1		21.7		32	
34	CMH 08-282(C)	129.4		30.5		64.2		4		74.6		20.2		45.3		27.1		44	
35	CMH 08-287(C)	100.1		31.8		55.1		23.6		67.7		13.5		42.1		29.4		41.1	
36	Seed tech 2324(C)	78.2		35.5		50.1		9.7		97.3		-		2.6		22.8		35.2	
37	HM 9(C)	-		-		-		-		-		-		-		-		-	
38	DHM 121(C)	84.7		11.9		36.7		10.8		22.7		-		23.3		6.5		20.3	
39	BIO 9544(C)	127.9		25.7		60.6		16.6		52.5		-		101.6		17.8		37.3	

TABLE No. 22 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DHM 121(C)														CWZ			
		PZ(ZN 4)														ZN 5		OV'L	
		DHAR	R	VAGA	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	MEAN	R	MEAN	R
1	ADV 9293	1		16.4		9.3		10.4		72.4		40.5		69.7		38.2		23.2	
2	OMH 14-16 (CAH1424)	-		-		-		-		24.9		-		-		4.3		-	
3	OMH 14-27 (CAH1511)	17.3		7.8		12.2		4.3		95.8		2.4		108.7		27.8		19.7	
4	OMH 14-62 (CAH 142)	12.8		22.9		18.2		-		5.7		44		18.5		13.4		15.9	
5	RCRMH3 (CAH1526)	-		11.6		4.2		2.9		-		7.1		-		1.3		2.8	
6	RCRMH-4 (CAH1525)	11.8		6.9		9.1		-		22		16.7		-		6		7.7	
7	RCRMH-5 (CAH1535	-		-		-		1.8		-		-		-		-		-	
8	GK3206	31.3		28.6		29.8		5.1		25.3		57.1		33		30.1		30	
9	REH2014-5	-		-		-		-		-		-		-		-		-	
10	IMH 1619	-		-		-		20.1		-		6		13.3		5.7		0.4	
11	HQPM 1	-		-		-		-		-		7.1		4.7		-		-	
12	HQPM 4	-		-		-		-		-		11.9		3.3		1.3		-	
13	HQPM 5	-		-		-		21.1		-		9.5		-		8.4		-	
14	HQPM 7	-		-		-		-		-		4.8		-		-		-	
15	HM 11	-		6.5		0.7		21.1		17.1		27.4		-		22.4		11.2	
16	REH2014-4	-		-		-		15.3		-		3.6		-		-		-	
17	OMH 14-30(CAH 1514)	-		14.1		2.4		-		33.3		14.3		-		10.9		6.5	
18	DMH-24	-		-		-		-		-		6		5		-		-	
19	DMRH1302	-		-		-		-		-		14.3		14.8		2.9		-	
20	IMH 1618	-		-		-		1.1		2.6		1.2		69.3		1.5		-	
21	IMH 1626	-		2.9		-		-		9.3		7.1		18.9		-		-	
22	IMH1526	23.4		4.8		13.4		12		-		2.4		1		-		5.8	
23	IMH1533	4.9		1.6		3.1		-		-		-		40.1		-		-	
24	HM 4	-		-		-		-		-		-		31.8		-		-	
25	CMH 08-292	21.2		1.3		10.5		19.4		54.6		33.3		53.2		34		21.8	
26	AQH4	0.6		-		-		-		-		11.9		-		-		-	
27	AQH8	-		-		-		1.3		-		-		-		-		-	
28	AQH9	-		-		-		-		-		6		-		-		-	
29	ADH1601	3.2		16.6		10.4		16.7		28		-		-		12.5		11.4	
30	ADH1602	15.8		15.2		15.5		13.2		4.7		-		-		4.6		10.2	
31	ADH1603	-		10.2		-		-		4.3		1.2		-		-		-	
32	ADH1604	-		-		-		-		-		-		-		-		-	
	CHECKS																		
33	PMH-1(C)	15		-		5.6		0.3		4		34.5		2.3		14.2		9.8	
34	CMH 08-282(C)	24.2		16.6		20.1		-		42.3		27.4		17.8		19.4		19.8	
35	CMH 08-287(C)	8.3		17.8		13.4		11.5		36.7		20.2		15.3		21.5		17.3	
36	Seed tech 2324(C)	-		21.1		9.8		-		60.8		-		-		15.3		12.4	
37	HM 9(C)	-		-		-		-		-		6		-		-		-	
38	DHM 121(C)	-		-		-		-		-		-		-		-		-	
39	BIO 9544(C)	23.4		12.4		17.5		5.3		24.3		6		63.5		10.6		14.1	

TABLE No. 22 (Contd.)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9544(C)												CWZ ZN 5 MEAN	R	OV'L MEAN	R
		DHAR	R	VAGA	R	PZ(ZN 4) MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R				
1	ADV 9293	-		3.6		-		4.9		38.7		32.6		3.8		25		8	
2	OMH 14-16 (CAH1424)	-		-		-		-		0.5		-		-		-		-	
3	OMH 14-27 (CAH1511)	-		-		-		-		57.5		-		27.6		15.6		4.9	
4	OMH 14-62 (CAH 142)	-		9.4		0.7		-		-		36		-		2.6		1.6	
5	RCRMH3 (CAH1526)	-		-		-		-		-		1.1		-		-		-	
6	RCRMH-4 (CAH1525)	-		-		-		-		-		10.1		-		-		-	
7	RCRMH-5 (CAH1535	-		-		-		-		-		-		-		-		-	
8	GK3206	6.4		14.4		10.5		-		0.8		48.3		-		17.7		13.9	
9	REH2014-5	-		-		-		-		-		-		-		-		-	
10	IMH 1619	-		-		-		14.1		-		-		-		-		-	
11	HQPM 1	-		-		-		-		-		1.1		-		-		-	
12	HQPM 4	-		-		-		-		-		5.6		-		-		-	
13	HQPM 5	-		-		-		15		-		3.4		-		-		-	
14	HQPM 7	-		-		-		-		-		-		-		-		-	
15	HM 11	-		-		-		15.1		-		20.2		-		10.7		-	
16	REH2014-4	-		-		-		9.6		-		-		-		-		-	
17	OMH 14-30(CAH 1514)	-		1.6		-		-		7.2		7.9		-		0.3		-	
18	DMH-24	-		-		-		-		-		-		-		-		-	
19	DMRH1302	-		-		-		-		-		7.9		-		-		-	
20	IMH 1618	-		-		-		-		-		-		3.5		-		-	
21	IMH 1626	-		-		-		-		-		1.1		-		-		-	
22	IMH1526	-		-		-		6.4		-		-		-		-		-	
23	IMH1533	-		-		-		-		-		-		-		-		-	
24	HM 4	-		-		-		-		-		-		-		-		-	
25	CMH 08-292	-		-		-		13.4		24.4		25.8		-		21.2		6.7	
26	AQH4	-		-		-		-		-		5.6		-		-		-	
27	AQH8	-		-		-		-		-		-		-		-		-	
28	AQH9	-		-		-		-		-		-		-		-		-	
29	ADH1601	-		3.8		-		10.9		3		-		-		1.7		-	
30	ADH1602	-		2.5		-		7.6		-		-		-		-		-	
31	ADH1603	-		-		-		-		-		-		-		-		-	
32	ADH1604	-		-		-		-		-		-		-		-		-	
	CHECKS																		
33	PMH-1(C)	-		-		-		-		-		27		-		3.3		-	
34	CMH 08-282(C)	0.6		3.8		2.3		-		14.5		20.2		-		8		4.9	
35	CMH 08-287(C)	-		4.8		-		6		10		13.5		-		9.9		2.8	
36	Seed tech 2324(C)	-		7.8		-		-		29.4		-		-		4.3		-	
37	HM 9(C)	-		-		-		-		-		-		-		-		-	
38	DHM 121(C)	-		-		-		-		-		-		-		-		-	
39	BIO 9544(C)	-		-		-		-		-		-		-		-		-	

TABLE No. 22 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % PZ(ZN 4) DHAR	VAGA	Mean	BANS	BHIL	UDAI	CWZ ZN 5 Mean	OV'L Mean
1	ADV 9293	86.4	77.5	82.0	73.8	84.2	82.9	80.3	80.9
2	OMH 14-16 (CAH1424)	83.6	77.7	80.7	73.3	81.2	82.2	78.9	79.6
3	OMH 14-27 (CAH1511)	86.6	78.5	82.6	75.2	83.3	82.5	80.3	81.2
4	OMH 14-62 (CAH 142)	88.6	81.9	85.2	72.6	84.5	81.9	79.7	81.9
5	RCRMH3 (CAH1526)	85.1	79.8	82.4	73.9	81.7	77.9	77.8	79.7
6	RCRMH-4 (CAH1525)	85.8	77.5	81.6	73.0	79.7	75.8	76.2	78.4
7	RCRMH-5 (CAH1535	85.0	78.7	81.9	76.3	80.4	78.2	78.3	79.7
8	GK3206	83.9	77.2	80.6	75.8	78.9	77.6	77.4	78.7
9	REH2014-5	87.7	77.5	82.6	74.0	83.7	82.2	80.0	81.0
10	IMH 1619	84.9	77.6	81.2	76.3	86.4	81.5	81.4	81.3
11	HQPM 1	86.2	79.8	83.0	73.6	84.0	81.4	79.7	81.0
12	HQPM 4	84.0	76.3	80.1	74.0	78.5	80.9	77.8	78.7
13	HQPM 5	84.6	76.9	80.8	76.8	84.2	78.2	79.7	80.1
14	HQPM 7	84.8	77.9	81.3	73.6	81.0	82.5	79.0	79.9
15	HM 11	85.4	78.7	82.0	77.3	80.7	75.4	77.8	79.5
16	REH2014-4	84.4	77.9	81.2	76.3	82.1	80.0	79.5	80.1
17	OMH 14-30(CAH 1514)	85.0	79.5	82.3	73.3	82.8	79.6	78.6	80.0
18	DMH-24	83.7	75.6	79.7	77.2	81.3	79.5	79.3	79.5
19	DMRH1302	84.6	77.3	80.9	72.9	82.9	81.7	79.2	79.9
20	IMH 1618	84.5	78.5	81.5	72.6	84.0	81.3	79.3	80.2
21	IMH 1626	82.3	76.5	79.4	74.3	82.1	77.5	78.0	78.5
22	IMH1526	87.3	78.0	82.7	76.3	81.0	77.7	78.3	80.0
23	IMH1533	85.9	81.0	83.5	77.6	82.1	82.3	80.7	81.8
24	HM 4	82.2	77.0	79.6	72.6	81.6	81.0	78.4	78.9
25	CMH 08-292	86.3	79.0	82.7	78.6	83.5	83.9	82.0	82.3
26	AQH4	83.4	78.0	80.7	74.6	80.9	84.4	80.0	80.3
27	AQH8	85.7	77.5	81.6	74.3	83.1	79.2	78.8	79.9
28	AQH9	84.0	77.5	80.8	72.8	77.0	78.9	76.2	78.0
29	ADH1601	84.7	76.5	80.6	77.2	82.9	78.8	79.6	80.0
30	ADH1602	85.5	79.0	82.3	76.4	82.8	80.8	80.0	80.9
31	ADH1603	86.1	77.4	81.7	72.8	82.8	81.8	79.1	80.2
32	ADH1604	86.0	77.1	81.5	72.8	84.8	81.7	79.8	80.5
	CHECKS								
33	PMH-1(C)	85.9	78.0	81.9	76.2	79.5	71.8	75.8	78.3
34	CMH 08-282(C)	84.9	76.8	80.8	73.9	82.1	78.6	78.2	79.2
35	CMH 08-287(C)	83.8	77.8	80.8	74.8	82.2	75.7	77.5	78.8
36	Seed tech 2324(C)	86.9	77.8	82.3	73.4	84.0	78.1	78.5	80.0
37	HM 9(C)	85.2	79.5	82.3	73.7	79.4	80.6	77.9	79.7
38	DHM 121(C)	83.2	76.6	79.9	76.3	74.9	81.8	77.6	78.5
39	BIO 9544(C)	87.4	80.2	83.8	73.4	84.3	84.0	80.5	81.8
	Loc. Mean	**85.2**	**78.0**	**81.6**	**74.7**	**82.0**	**80.0**	**78.9**	**80.0**
	C.D. (5%)	2.00	2.35	1.85	0.00	4.87	5.38	3.60	2.28
	C.V. (%)	1.16	1.49	1.12	0.00	2.94	3.32	2.80	2.28
	F (Prob)	0.00	0.00	0.00	0.00	0.04	0.02	0.32	0.01

MOISTURE % AT HARVEST PZ(ZN 4) DHAR	VAGA	Mean	BANS	BHIL	CWZ ZN 5 Mean	OV'L Mean
15.3	16.5	15.9	17.2	24.0	20.6	18.2
17.8	16.7	17.2	16.8	18.1	17.4	17.3
12.2	15.8	14.0	16.8	18.2	17.5	15.7
17.0	16.6	16.8	17.7	16.5	17.1	16.9
14.7	16.8	15.7	19.6	15.4	17.5	16.6
16.2	16.7	16.4	17.2	16.1	16.7	16.5
16.9	16.4	16.6	16.0	18.2	17.1	16.9
15.8	17.3	16.5	17.2	17.8	17.5	17.0
15.5	17.1	16.3	16.9	15.4	16.2	16.2
13.4	16.3	14.8	16.8	15.2	16.0	15.4
13.9	16.2	15.1	16.8	16.4	16.6	15.8
19.0	16.7	17.8	18.7	17.2	18.0	17.9
17.0	15.7	16.3	17.8	17.2	17.5	16.9
14.8	16.8	15.8	18.4	15.1	16.8	16.3
15.9	16.7	16.3	17.8	17.1	17.5	16.9
14.8	17.6	16.2	17.6	16.3	17.0	16.6
14.7	16.3	15.5	16.7	19.0	17.9	16.7
15.4	17.0	16.2	17.0	17.4	17.2	16.7
14.7	16.6	15.6	16.6	17.4	17.0	16.3
14.7	16.8	15.8	17.2	17.4	17.3	16.5
14.3	15.9	15.1	16.7	15.9	16.3	15.7
15.9	16.1	16.0	16.8	18.4	17.6	16.8
14.3	16.5	15.4	16.8	15.4	16.1	15.7
13.7	15.9	14.8	16.8	15.9	16.4	15.6
15.8	16.9	16.4	16.8	16.2	16.5	16.4
14.9	15.9	15.4	16.9	17.4	17.2	16.3
18.3	17.5	17.9	16.8	15.9	16.4	17.1
16.0	17.0	16.5	17.6	15.1	16.4	16.4
15.0	16.9	15.9	17.8	17.4	17.6	16.8
16.3	17.0	16.6	16.9	18.8	17.9	17.2
14.9	15.4	15.2	19.7	18.3	19.0	17.1
13.9	15.6	14.7	16.8	15.9	16.4	15.5
16.5	16.9	16.7	17.0	24.1	20.6	18.6
14.6	16.2	15.4	18.6	18.1	18.4	16.9
18.4	17.6	18.0	16.6	22.5	19.5	18.8
16.8	16.4	16.6	18.6	18.4	18.5	17.6
16.0	16.1	16.1	18.6	15.9	17.3	16.7
17.9	16.6	17.2	17.0	18.7	17.9	17.5
16.3	17.0	16.6	16.2	15.1	15.7	16.1
15.6	**16.5**	**16.1**	**17.3**	**17.4**	**17.4**	**16.7**
5.03	1.61	1.89	-	1.19	3.43	1.87
15.91	4.79	5.81	-	3.37	9.76	7.98
0.86	0.62	0.03	0.00	0.00	0.67	0.09

TABLE No. 22 (Contd.)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)								
			PZ(ZN 4)						CWZ ZN 5	OV'L
		DHAR	VAGA	Mean	BANS	BHIL	CHHI	UDAI	Mean	Mean
1	ADV 9293	45.8	57.1	51.5	68.8	60.7	65.8	60.7	64.0	59.8
2	OMH 14-16 (CAH1424)	51.0	45.2	48.1	64.6	64.3	56.7	61.9	61.9	57.3
3	OMH 14-27 (CAH1511)	43.8	51.2	47.5	65.6	64.3	56.7	61.9	62.1	57.2
4	OMH 14-62 (CAH 142)	44.8	47.6	46.2	59.4	58.3	55.0	58.3	57.8	53.9
5	RCRMH3 (CAH1526)	47.9	47.6	47.8	63.5	59.5	56.7	47.6	56.8	53.8
6	RCRMH-4 (CAH1525)	54.2	52.4	53.3	61.5	63.1	54.2	56.0	58.7	56.9
7	RCRMH-5 (CAH1535	54.2	56.0	55.1	68.8	58.3	55.0	61.9	61.0	59.0
8	GK3206	56.3	56.0	56.1	67.7	65.5	60.8	64.3	64.6	61.8
9	REH2014-5	36.5	42.9	39.7	57.3	61.9	59.2	42.9	55.3	50.1
10	IMH 1619	52.1	54.8	53.4	61.5	61.9	57.5	58.3	59.8	57.7
11	HQPM 1	55.2	48.8	52.0	66.7	64.3	55.8	66.7	63.4	59.6
12	HQPM 4	40.6	54.8	47.7	62.5	60.7	58.3	51.2	58.2	54.7
13	HQPM 5	36.5	53.6	45.0	56.3	64.3	60.0	59.5	60.0	55.0
14	HQPM 7	52.1	54.8	53.4	66.7	64.3	53.3	63.1	61.8	59.0
15	HM 11	56.3	56.0	56.1	60.4	61.9	30.0	58.3	52.7	53.8
16	REH2014-4	53.1	42.9	48.0	59.4	60.7	63.3	59.5	60.7	56.5
17	OMH 14-30(CAH 1514)	43.8	47.6	45.7	62.5	57.1	56.7	40.5	54.2	51.4
18	DMH-24	53.1	50.0	51.6	64.6	59.5	60.0	56.0	60.0	57.2
19	DMRH1302	46.9	52.4	49.6	58.3	63.1	60.0	51.2	58.2	55.3
20	IMH 1618	52.1	48.8	50.4	63.5	61.9	56.7	53.6	58.9	56.1
21	IMH 1626	52.1	51.2	51.6	60.4	60.7	58.3	52.4	58.0	55.9
22	IMH1526	58.3	54.8	56.5	58.3	52.4	60.0	58.3	57.3	57.0
23	IMH1533	53.1	54.8	53.9	64.6	63.1	57.5	64.3	62.4	59.6
24	HM 4	47.9	46.4	47.2	61.5	59.5	52.5	53.6	56.8	53.6
25	CMH 08-292	41.7	51.2	46.4	61.5	65.5	63.3	56.0	61.6	56.5
26	AQH4	55.2	52.4	53.8	62.5	64.3	60.8	52.4	60.0	57.9
27	AQH8	36.5	42.9	39.7	61.5	59.5	58.3	47.6	56.7	51.0
28	AQH9	42.7	52.4	47.5	57.3	60.7	56.7	47.6	55.6	52.9
29	ADH1601	64.6	54.8	59.7	64.6	59.5	57.5	53.6	58.8	59.1
30	ADH1602	57.3	53.6	55.4	67.7	63.1	57.5	51.2	59.9	58.4
31	ADH1603	39.6	53.6	46.6	64.6	61.9	55.8	56.0	59.6	55.2
32	ADH1604	28.1	51.2	39.7	64.6	46.4	58.3	33.3	50.7	47.0
	CHECKS									
33	PMH-1(C)	42.7	47.6	45.2	60.4	57.1	54.2	53.6	56.3	52.6
34	CMH 08-282(C)	49.0	53.6	51.3	65.6	60.7	57.5	59.5	60.8	57.6
35	CMH 08-287(C)	52.1	53.6	52.8	66.7	59.5	56.7	67.9	62.7	59.4
36	Seed tech 2324(C)	42.7	51.2	46.9	62.5	61.9	60.8	65.5	62.7	57.4
37	HM 9(C)	33.3	50.0	41.7	60.4	64.3	61.7	45.2	57.9	52.5
38	DHM 121(C)	45.8	52.4	49.1	63.5	63.1	57.5	53.6	59.4	56.0
39	BIO 9544(C)	54.2	47.6	50.9	64.6	63.1	63.3	54.8	61.4	57.9
	Loc. Mean	**48.0**	**51.2**	**49.6**	**62.9**	**61.1**	**57.4**	**55.4**	**59.2**	**56.0**
	C.D. (5%)	15.49	5.53	10.84	9.81	6.83	9.51	10.10	6.76	5.72
	C.V. (%)	15.93	5.34	10.80	7.71	5.53	8.18	9.01	8.15	8.96
	F (Prob)	0.01	0.00	0.07	0.62	0.01	0.00	0.00	0.03	0.00

DAYS TO 50% POLLEN SHED									
	PZ(ZN 4)							CWZ ZN 5	OV'L
DHAR	VAGA	Mean	BANS	BHIL	CHHI	UDAI	Mean	Mean
63.0	54.0	58.5	51.0	53.5	63.5	53.5	55.4	56.4
61.0	48.0	54.5	50.5	50.0	61.0	52.0	53.4	53.8
60.5	49.0	54.8	50.0	50.5	60.0	51.0	52.9	53.5
64.0	53.0	58.5	50.0	53.0	62.0	53.0	54.5	55.8
64.0	52.0	58.0	51.5	51.0	62.0	51.0	53.9	55.3
60.5	50.5	55.5	51.0	52.5	61.0	51.0	53.9	54.4
61.0	51.5	56.3	49.5	52.0	63.5	51.0	54.0	54.8
64.0	52.5	58.3	51.5	53.5	63.5	51.0	54.9	56.0
63.0	54.0	58.5	50.5	53.5	64.0	52.0	55.0	56.2
61.0	50.0	55.5	50.5	51.5	61.0	53.0	54.0	54.5
59.5	52.5	56.0	50.0	52.0	63.0	51.0	54.0	54.7
61.0	50.5	55.8	50.0	53.5	63.5	51.0	54.5	54.9
63.0	51.0	57.0	49.5	51.0	61.5	51.0	53.3	54.5
60.0	51.5	55.8	50.0	52.0	61.5	51.0	53.6	54.3
62.5	50.5	56.5	49.0	51.0	63.5	51.0	53.6	54.6
62.0	49.0	55.5	51.5	52.0	62.5	49.0	53.8	54.3
61.5	50.0	55.8	49.5	51.5	60.5	45.5	51.8	53.1
57.5	46.5	52.0	48.5	49.0	59.5	45.0	50.5	51.0
58.5	46.5	52.5	51.5	49.5	58.5	45.0	51.1	51.6
57.5	47.0	52.3	51.0	51.0	59.5	45.0	51.6	51.8
62.0	51.5	56.8	52.0	52.5	64.5	50.0	54.8	55.4
61.5	49.5	55.5	52.5	50.0	62.5	49.5	53.6	54.3
59.0	50.0	54.5	50.0	51.0	59.5	46.0	51.6	52.6
58.5	47.0	52.8	52.5	51.0	59.0	50.0	53.1	53.0
59.5	49.5	54.5	51.5	50.5	64.0	49.0	53.8	54.0
59.5	49.5	54.5	50.5	49.5	60.5	48.5	52.3	53.0
61.5	49.0	55.3	49.0	52.0	61.5	50.0	53.1	53.8
61.5	47.5	54.5	51.0	52.0	61.5	50.0	53.6	53.9
60.5	49.0	54.8	50.0	51.0	60.5	48.0	52.4	53.2
57.5	46.5	52.0	49.0	49.0	60.0	42.0	50.0	50.7
58.5	45.5	52.0	51.5	48.5	59.0	42.0	50.3	50.8
56.0	47.0	51.5	53.0	50.0	59.0	46.0	52.0	51.8
60.5	49.0	54.8	50.0	53.5	63.5	50.0	54.3	54.4
59.5	48.5	54.0	50.5	48.5	61.0	50.0	52.5	53.0
62.5	52.5	57.5	51.5	52.5	63.0	49.5	54.1	55.3
61.0	51.0	56.0	51.5	51.0	60.5	49.5	53.1	54.1
60.5	47.0	53.8	51.5	51.5	59.0	50.0	53.0	53.3
61.0	52.0	56.5	49.0	52.5	63.5	50.0	53.8	54.7
61.5	51.0	56.3	52.5	52.0	61.5	50.0	54.0	54.8
60.7	**49.8**	**55.2**	**50.7**	**51.3**	**61.5**	**49.3**	**53.2**	**53.9**
3.36	1.35	2.15	3.33	2.32	2.80	1.15	2.16	1.61
2.74	1.34	1.93	3.25	2.23	2.25	1.15	2.89	2.62
0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.00

TABLE No. 22 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% SILKING							CWZ	OV'L
				PZ(ZN 4)					ZN 5	
		DHAR	VAGA	Mean	BANS	BHIL	CHHI	UDAI	Mean	Mean
1	ADV 9293	64.5	57.0	60.8	54.0	59.5	65.0	56.0	58.6	59.3
2	OMH 14-16 (CAH1424)	61.5	51.0	56.3	53.5	55.0	62.5	54.5	56.4	56.3
3	OMH 14-27 (CAH1511)	63.0	52.5	57.8	53.0	55.0	61.0	55.0	56.0	56.6
4	OMH 14-62 (CAH 142)	65.5	56.0	60.8	53.0	59.0	63.0	56.0	57.8	58.8
5	RCRMH3 (CAH1526)	65.5	55.0	60.3	54.5	56.0	62.5	54.0	56.8	57.9
6	RCRMH-4 (CAH1525)	61.5	53.5	57.5	54.0	59.0	62.0	54.0	57.3	57.3
7	RCRMH-5 (CAH1535	62.0	54.5	58.3	52.5	57.0	64.0	56.0	57.4	57.7
8	GK3206	65.0	55.5	60.3	54.5	59.0	65.0	54.0	58.1	58.8
9	REH2014-5	64.0	57.0	60.5	53.5	59.0	65.0	55.0	58.1	58.9
10	IMH 1619	62.5	53.5	58.0	53.5	57.0	62.5	56.0	57.3	57.5
11	HQPM 1	60.5	55.5	58.0	53.0	57.5	64.5	55.0	57.5	57.7
12	HQPM 4	64.0	53.5	58.8	53.0	59.0	65.0	55.0	58.0	58.3
13	HQPM 5	65.0	54.5	59.8	52.5	56.0	63.0	55.0	56.6	57.7
14	HQPM 7	61.0	54.0	57.5	53.0	57.0	62.5	55.0	56.9	57.1
15	HM 11	63.0	53.5	58.3	52.0	56.0	64.0	55.0	56.8	57.3
16	REH2014-4	63.5	52.0	57.8	54.5	57.5	63.5	52.0	56.9	57.2
17	OMH 14-30(CAH 1514)	61.5	53.0	57.3	52.5	56.5	61.0	49.0	54.8	55.6
18	DMH-24	59.0	50.5	54.8	51.5	53.5	60.0	49.0	53.5	53.9
19	DMRH1302	60.0	50.0	55.0	54.5	53.5	59.5	49.0	54.1	54.4
20	IMH 1618	58.5	50.0	54.3	54.0	56.5	60.5	49.0	55.0	54.8
21	IMH 1626	64.0	55.0	59.5	55.0	57.5	66.0	53.0	57.9	58.4
22	IMH1526	61.5	53.5	57.5	55.5	55.0	63.5	52.0	56.5	56.8
23	IMH1533	60.5	53.0	56.8	53.0	56.0	60.0	48.0	54.3	55.1
24	HM 4	59.5	50.5	55.0	55.5	56.5	59.5	53.0	56.1	55.8
25	CMH 08-292	61.5	53.0	57.3	54.5	55.5	60.0	53.0	55.8	56.3
26	AQH4	60.5	53.0	56.8	53.5	54.5	61.0	52.0	55.3	55.8
27	AQH8	62.5	52.5	57.5	52.0	57.0	62.5	54.0	56.4	56.8
28	AQH9	62.0	50.5	56.3	54.0	57.0	62.0	53.0	56.5	56.4
29	ADH1601	63.0	52.5	57.8	53.0	55.5	61.0	50.0	54.9	55.8
30	ADH1602	59.5	49.5	54.5	52.0	53.5	60.5	46.0	53.0	53.5
31	ADH1603	59.0	49.0	54.0	54.5	53.0	60.0	45.0	53.1	53.4
32	ADH1604	57.0	50.5	53.8	56.0	54.5	59.5	50.0	55.0	54.6
	CHECKS									
33	PMH-1(C)	61.5	52.0	56.8	53.0	59.0	64.0	53.0	57.3	57.1
34	CMH 08-282(C)	60.5	51.5	56.0	53.5	52.5	61.5	53.0	55.1	55.4
35	CMH 08-287(C)	63.5	55.5	59.5	54.5	57.5	63.5	52.0	56.9	57.8
36	Seed tech 2324(C)	61.5	54.5	58.0	54.5	56.5	61.5	52.0	56.1	56.8
37	HM 9(C)	61.0	51.0	56.0	54.5	58.0	59.5	53.0	56.3	56.2
38	DHM 121(C)	62.5	55.0	58.8	52.0	58.5	64.5	53.0	57.0	57.6
39	BIO 9544(C)	61.5	54.0	57.8	55.5	57.5	62.5	53.0	57.1	57.3
	Loc. Mean	**61.9**	**53.0**	**57.5**	**53.7**	**56.5**	**62.3**	**52.6**	**56.3**	**56.7**
	C.D. (5%)	4.06	1.23	2.12	3.33	3.04	2.16	0.51	2.27	1.67
	C.V. (%)	3.24	1.14	1.82	3.07	2.66	1.71	0.48	2.88	2.59
	F (Prob)	0.02	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.00

DAYS TO 75% DRY HUSK							CWZ	OV'L
		PZ(ZN 4)					ZN 5	
DHAR	VAGA	Mean	BANS	BHIL	CHHI		Mean	Mean
111.0	98.0	104.5	84.5	80.5	104.0		89.7	95.6
113.0	92.0	102.5	84.0	78.5	100.5		87.7	93.6
108.0	93.0	100.5	84.0	77.0	101.5		87.5	92.7
109.0	96.5	102.8	85.0	78.5	103.0		88.8	94.4
106.0	95.5	100.8	84.5	79.0	104.5		89.3	93.9
112.0	94.5	103.3	84.5	79.5	102.0		88.7	94.5
112.0	95.5	103.8	84.0	77.5	103.5		88.3	94.5
113.0	95.5	104.3	85.0	79.0	105.5		89.8	95.6
109.0	96.5	102.8	83.5	79.0	102.5		88.3	94.1
107.0	94.5	100.8	83.5	77.0	100.0		86.8	92.4
109.0	96.0	102.5	84.5	77.5	107.5		89.8	94.9
109.0	94.0	101.5	83.5	79.5	107.0		90.0	94.6
110.0	95.5	102.8	81.5	77.5	105.0		88.0	93.9
108.0	95.0	101.5	84.0	78.5	104.0		88.8	93.9
110.0	94.5	102.3	82.0	78.5	101.0		87.2	93.2
108.5	93.0	100.8	85.0	78.5	102.0		88.5	93.4
108.0	94.0	101.0	83.5	77.5	102.5		87.8	93.1
106.0	92.0	99.0	82.5	78.0	101.5		87.3	92.0
108.0	90.5	99.3	85.5	77.5	102.5		88.5	92.8
106.0	91.0	98.5	84.0	79.0	101.0		88.0	92.2
105.5	95.5	100.5	85.0	79.0	102.0		88.7	93.4
115.0	94.5	104.8	85.0	79.0	104.0		89.3	95.5
108.0	94.5	101.3	82.0	77.0	99.5		86.2	92.2
106.0	92.0	99.0	85.5	78.5	99.5		87.8	92.3
105.0	94.0	99.5	81.5	79.5	100.0		87.0	92.0
107.0	94.0	100.5	83.0	80.5	100.0		87.8	92.9
109.0	93.5	101.3	82.5	78.0	103.0		87.8	93.2
108.0	91.5	99.8	85.5	78.5	103.5		89.2	93.4
108.0	94.0	101.0	83.5	76.5	102.0		87.3	92.8
109.0	91.0	100.0	83.0	78.5	102.0		87.8	92.7
111.0	90.5	100.8	85.5	80.0	100.0		88.5	93.4
107.0	91.5	99.3	84.5	80.0	99.0		87.8	92.4
109.0	93.0	101.0	84.0	79.5	103.0		88.8	93.7
103.0	92.5	97.8	83.5	75.5	100.5		86.5	91.0
107.0	96.5	101.8	86.0	78.5	101.5		88.7	93.9
108.0	95.5	101.8	85.5	77.5	101.0		88.0	93.5
107.0	92.0	99.5	85.0	79.5	101.5		88.7	93.0
106.0	95.5	100.8	82.0	79.0	105.0		88.7	93.5
108.0	95.0	101.5	84.5	80.0	105.5		90.0	94.6
108.4	**93.9**	**101.2**	**84.0**	**78.5**	**102.4**		**88.3**	**93.5**
4.74	1.62	3.99	3.03	4.41	2.33		2.39	2.06
2.16	0.85	1.95	1.78	2.78	1.12		1.66	1.76
0.01	0.00	0.14	0.21	0.97	0.00		0.20	0.00

TABLE No. 22 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) DHAR	VAGA	PZ(ZN 4) Mean	BANS	BHIL	CHHI	UDAI	CWZ ZN 5 Mean	OV'L Mean	EAR HEIGHT(cm) DHAR	VAGA	PZ(ZN 4) Mean	BANS	BHIL	CHHI	UDAI	CWZ ZN 5 Mean	OV'L Mean
1	ADV 9293	208.5	204.5	206.5	157.5	164.0	134.0	210.3	166.4	179.8	100.5	104.3	102.4	80.0	90.5	50.0	74.2	73.7	83.2
2	OMH 14-16 (CAH1424)	210.5	197.7	204.1	165.0	160.5	117.0	194.8	159.3	174.2	98.5	102.2	100.3	70.0	90.5	40.0	57.8	64.6	76.5
3	OMH 14-27 (CAH1511)	203.5	261.0	232.3	185.0	181.0	152.5	192.7	177.8	196.0	100.0	127.0	113.5	80.0	75.0	60.0	70.2	71.3	85.4
4	OMH 14-62 (CAH 142)	192.0	221.3	206.7	165.0	143.5	150.5	200.7	164.9	178.8	98.5	104.2	101.3	67.5	84.5	56.5	72.2	70.2	80.6
5	RCRMH3 (CAH1526)	204.0	220.7	212.3	182.5	160.0	151.5	215.2	177.3	189.0	109.0	107.0	108.0	75.0	79.0	56.0	81.7	72.9	84.6
6	RCRMH-4 (CAH1525)	209.5	196.6	203.0	132.5	159.5	133.5	200.2	156.4	172.0	93.0	102.9	98.0	75.0	81.0	43.5	61.4	65.2	76.1
7	RCRMH-5 (CAH1535	194.5	223.7	209.1	185.0	138.0	129.0	184.8	159.2	175.8	83.5	96.8	90.2	87.5	84.5	38.5	52.2	65.7	73.8
8	GK3206	196.5	214.0	205.3	170.0	154.0	142.5	182.2	162.2	176.5	103.0	103.2	103.1	77.5	86.5	50.0	59.2	68.3	79.9
9	REH2014-5	181.0	189.0	185.0	150.0	124.5	129.0	182.8	146.6	159.4	103.5	97.1	100.3	70.0	89.5	55.0	60.7	68.8	79.3
10	IMH 1619	199.5	192.1	195.8	170.0	130.5	147.5	207.7	163.9	174.6	108.5	97.5	103.0	77.5	65.5	62.5	87.8	73.3	83.2
11	HQPM 1	210.0	205.8	207.9	170.0	140.5	145.0	199.2	163.7	178.4	105.5	95.3	100.4	75.0	90.0	59.0	79.3	75.8	84.0
12	HQPM 4	207.0	242.1	224.5	170.0	170.5	154.0	237.7	183.0	196.9	97.0	122.5	109.8	72.5	74.0	66.5	101.4	78.6	89.0
13	HQPM 5	212.5	245.7	229.1	187.5	150.0	155.5	205.2	174.5	192.7	108.0	128.8	118.4	85.0	79.0	66.0	90.3	80.1	92.8
14	HQPM 7	202.0	223.0	212.5	155.0	154.0	152.5	212.7	168.5	183.2	100.5	114.2	107.3	72.5	88.0	53.5	77.8	72.9	84.4
15	HM 11	202.0	241.0	221.5	185.0	175.5	159.5	215.5	183.9	196.4	96.5	118.8	107.6	85.0	70.0	61.0	81.4	74.3	85.4
16	REH2014-4	203.5	220.9	212.2	170.0	145.5	161.0	240.8	179.3	190.3	100.5	110.2	105.3	75.0	91.0	69.0	87.9	80.7	88.9
17	OMH 14-30(CAH 1514)	195.0	192.6	193.8	175.0	152.0	144.0	182.7	163.4	173.5	89.0	96.9	93.0	72.5	81.0	53.5	77.8	71.2	78.4
18	DMH-24	197.0	177.1	187.0	167.5	128.0	131.5	187.4	153.6	164.7	90.5	102.3	96.4	92.5	94.5	43.5	51.2	70.4	79.1
19	DMRH1302	192.0	168.6	180.3	167.5	134.5	111.0	175.2	147.0	158.1	99.0	93.7	96.3	72.5	80.0	39.0	57.7	62.3	73.6
20	IMH 1618	207.5	188.6	198.0	175.0	157.5	133.0	217.8	170.8	179.9	100.5	94.0	97.2	85.0	83.0	46.5	67.7	70.6	79.4
21	IMH 1626	206.0	229.3	217.6	172.5	168.0	137.5	222.8	175.2	189.3	112.0	128.6	120.3	80.0	79.0	56.5	101.2	79.2	92.9
22	IMH1526	207.0	233.1	220.0	175.0	161.5	121.5	215.2	168.3	185.5	103.0	112.5	107.8	72.5	80.5	37.5	77.8	67.1	80.6
23	IMH1533	181.0	193.8	187.4	165.0	124.5	132.0	177.7	149.8	162.3	89.5	95.2	92.3	75.0	95.5	51.0	73.8	73.8	80.0
24	HM 4	196.5	178.5	187.5	167.5	124.0	130.5	164.3	146.6	160.2	102.5	105.5	104.0	77.5	105.0	46.0	64.3	73.2	83.5
25	CMH 08-292	216.0	249.5	232.7	175.0	178.5	176.5	240.2	192.5	205.9	110.0	130.7	120.3	80.0	76.5	82.5	107.8	86.7	97.9
26	AQH4	185.0	197.0	191.0	165.0	126.0	159.0	172.7	155.7	167.4	96.0	103.3	99.7	70.0	82.0	37.5	57.8	61.8	74.4
27	AQH8	193.0	182.6	187.8	182.5	147.0	130.0	173.4	158.2	168.1	91.5	94.8	93.2	95.0	87.0	42.5	57.7	70.6	78.1
28	AQH9	221.0	189.0	205.0	155.0	150.0	132.0	188.9	156.5	172.6	94.5	98.8	96.7	70.0	82.0	45.0	56.2	63.3	74.4
29	ADH1601	202.5	187.3	194.9	160.0	141.5	136.0	197.7	158.8	170.8	93.0	102.2	97.6	79.0	82.5	46.5	57.8	66.4	76.8
30	ADH1602	195.5	215.0	205.2	165.0	150.5	125.0	180.4	155.2	171.9	102.0	101.7	101.8	82.5	82.5	40.5	71.8	69.3	80.2
31	ADH1603	197.0	238.0	217.5	165.0	157.5	132.5	185.2	160.0	179.2	89.0	127.5	108.2	72.5	87.5	56.5	70.8	71.8	84.0
32	ADH1604	189.5	172.5	181.0	175.0	132.5	143.0	174.7	156.3	164.5	85.0	98.8	91.9	77.5	74.0	59.5	61.8	68.2	76.1
	CHECKS																		
33	PMH-1(C)	202.0	232.4	217.2	170.0	175.5	159.0	235.2	184.9	195.7	106.5	125.0	115.7	82.5	82.0	78.5	91.7	83.7	94.4
34	CMH 08-282(C)	190.5	236.9	213.7	155.0	169.5	174.0	235.1	183.4	193.5	110.5	132.1	121.3	80.0	71.5	74.0	102.4	82.0	95.1
35	CMH 08-287(C)	209.0	198.3	203.6	177.5	175.0	174.5	255.2	195.6	198.2	97.5	98.8	98.2	77.5	86.5	71.5	106.3	85.5	89.7
36	Seed tech 2324(C)	191.0	224.3	207.7	145.0	148.5	140.0	199.7	158.3	174.8	103.5	119.0	111.2	85.0	73.5	65.0	100.8	81.1	91.1
37	HM 9(C)	202.0	201.1	201.6	182.5	124.5	126.5	185.3	154.7	170.3	98.0	105.7	101.8	85.0	79.5	51.0	67.8	70.8	81.2
38	DHM 121(C)	200.5	213.0	206.7	185.0	161.0	147.5	200.2	173.4	184.5	98.0	106.9	102.5	87.5	78.0	57.5	58.2	70.3	81.0
39	BIO 9544(C)	205.5	189.4	197.5	150.0	151.0	109.0	192.3	150.6	166.2	101.5	96.6	99.1	80.0	83.5	46.5	88.9	74.7	82.8
	Loc. Mean	**200.5**	**209.9**	**205.2**	**168.5**	**151.0**	**141.5**	**201.0**	**165.5**	**178.7**	**99.2**	**107.7**	**103.5**	**78.4**	**82.7**	**54.2**	**75.0**	**72.6**	**82.9**
	C.D. (5%)	23.70	8.78	32.78	33.88	25.34	31.34	11.45	18.78	15.49	16.60	6.61	15.57	23.01	23.91	15.17	6.18	15.07	10.93
	C.V. (%)	5.84	2.07	7.89	9.93	8.29	10.94	2.81	8.10	7.61	8.27	3.03	7.43	14.50	14.28	13.82	4.08	14.82	11.58
	F (Prob)	0.30	0.00	0.13	0.41	0.00	0.01	0.00	0.00	0.00	0.12	0.00	0.01	0.91	0.71	0.00	0.00	0.10	0.00

TABLE No. 23 **PERFORMANCE OF LATE MATURITY EXPERIMENTAL HYBRIDS AT DHARWAD, VAGARAI, KOLHAPUR, BANSWARA, BHILODA, CHHINDWARA, UDAIPUR IN TRIAL No. TR RAINFED SET LATE MATURITY DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE PZ(ZN 4) DHAR	R	VAGA	R	KOLH	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	ADV 9293	7978	14	4781	12	4057	10	5605	9	5512	24	8141	5	5533	17	4583	6	5048	8	5382	8
2	OMH 14-16 (CAH1424)	7334	18	4731	14	4978	4	5681	7	5738	16	6474	18	5800	12	2194	32	3966	26	4995	12
3	OMH 14-27 (CAH1511)	7982	13	5107	7	3425	19	5505	11	6157	6	7930	7	6867	5	5379	2	5768	1	5610	5
4	OMH 14-62 (CAH 142)	8848	3	3155	36	3003	25	5002	17	5720	18	6128	22	6533	8	3605	14	4662	15	4866	16
5	RCRMH3 (CAH1526)	5891	30	4905	11	4542	5	5113	16	5894	11	6109	23	5000	22	1573	36	3734	33	4561	24
6	RCRMH-4 (CAH1525)	9526	1	4933	10	4448	6	6302	1	6762	3	6180	21	7200	3	2751	25	4756	14	5684	2
7	RCRMH-5 (CAH1535	4442	37	5066	9	2060	36	3856	35	5018	32	4073	34	4267	30	2035	33	3526	36	3724	36
8	GK3206	6483	26	4172	20	3779	13	4811	22	5731	17	7637	9	7267	2	5207	3	5469	3	5074	10
9	REH2014-5	5044	35	3934	25	4152	9	4377	30	5786	13	5313	28	4267	31	1488	38	3637	35	4081	32
10	IMH 1619	6327	27	2959	39	2300	34	3862	34	6227	5	6447	19	4200	32	2773	24	4500	18	4117	31
11	HQPM 1	8443	9	3582	30	2451	31	4825	20	6278	4	5951	24	2200	39	3603	15	4941	11	4871	15
12	HQPM 4	8780	4	3244	34	3477	18	5167	14	4662	36	4572	32	4600	27	2969	22	3815	29	4626	23
13	HQPM 5	6911	20	3707	28	2324	32	4314	32	5578	22	5671	26	5333	20	2932	23	4255	22	4290	28
14	HQPM 7	6758	23	4095	24	2091	35	4315	31	5772	14	5348	27	5533	18	3096	20	4434	19	4362	27
15	HM 11	8492	7	5128	6	3005	24	5542	10	6144	7	6726	16	4600	28	2570	27	4357	20	5068	11
16	REH2014-4	5081	34	4615	16	3576	16	4424	29	3933	38	4677	30	2733	38	2236	28	3084	39	3888	34
17	OMH 14-30(CAH 1514)	6884	21	3642	29	4041	11	4856	18	4991	33	5887	25	4667	26	4124	12	4558	17	4737	21
18	DMH-24	6585	25	4585	17	4328	8	5166	15	5148	30	4660	31	4867	25	3188	19	4168	24	4767	20
19	DMRH1302	6825	22	5223	3	5114	2	5721	6	6023	8	6646	17	5333	19	4148	11	5086	6	5467	7
20	IMH 1618	8331	10	4167	21	4430	7	5643	8	5799	12	8119	6	5733	15	5687	1	5743	2	5683	3
21	IMH 1626	6180	28	4351	19	3096	23	4542	28	5907	10	6804	13	6800	6	4344	8	5125	5	4776	19
22	IMH1526	7952	15	4766	13	3369	21	5362	12	5320	28	6736	15	6600	7	2233	29	3776	31	4728	22
23	IMH1533	7571	17	5193	4	6028	1	6264	2	5324	27	6202	20	4133	33	4461	7	4892	12	5715	1
24	HM 4	5498	33	3397	32	1804	38	3566	37	3811	39	3633	37	3867	37	3993	13	3902	27	3700	37
25	CMH 08-292	9144	2	5449	2	3708	15	6100	3	5913	9	7299	12	6467	9	4151	10	5032	9	5673	4
26	AQH4	5026	36	3175	35	1707	39	3303	38	4891	35	4066	35	4467	29	3280	18	4086	25	3616	38
27	AQH8	4120	38	4552	18	2626	28	3766	36	5261	29	3802	36	4933	23	2210	31	3735	32	3754	35
28	AQH9	6942	19	2997	38	2592	29	4177	33	5764	15	3564	38	3933	36	1798	34	3781	30	4019	33
29	ADH1601	5771	32	5669	1	2585	30	4675	25	6967	1	7806	8	5800	13	1651	35	4309	21	4528	25
30	ADH1602	5859	31	5144	5	2685	27	4563	27	5511	25	9460	1	5067	21	1524	37	3518	37	4145	30

TABLE No. 23 **PERFORMANCE OF LATE MATURITY EXPERIMENTAL HYBRIDS AT DHARWAD, VAGARAI, KOLHAPUR, BANSWARA, BHILODA, CHHINDWARA, UDAIPUR IN TRIAL No. TR RAINFED SET LATE MATURITY DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE PZ(ZN 4) DHAR	R	VAGA	R	KOLH	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
31	ADH1603	6738	24	4145	22	3419	20	4767	24	5519	23	5246	29	4933	24	2224	30	3872	28	4409	26
32	ADH1604	4054	39	3083	37	2312	33	3150	39	4937	34	2994	39	4133	34	1435	39	3186	38	3164	39
	CHECKS																				
33	PMH-1(C)	8458	8	5080	8	3813	12	5784	5	5664	20	7631	10	7400	1	3552	16	4608	16	5313	9
34	CMH 08-282(C)	8666	6	3771	27	5097	3	5845	4	5088	31	6767	14	7067	4	4862	4	4975	10	5497	6
35	CMH 08-287(C)	8686	5	3799	26	2032	37	4839	19	5706	19	8542	4	5800	14	4703	5	5204	4	4985	13
36	Seed tech 2324(C)	7617	16	3321	33	3532	17	4824	21	6824	2	7364	11	5733	16	3321	17	5072	7	4923	14
37	HM 9(C)	6127	29	4125	23	3731	14	4661	26	4360	37	4257	33	4067	35	3026	21	3693	34	4274	29
38	DHM 121(C)	8152	11	4638	15	3139	22	5310	13	5652	21	9044	2	6067	10	2724	26	4188	23	4861	17
39	BIO 9544(C)	8107	12	3482	31	2816	26	4801	23	5359	26	8869	3	5867	11	4331	9	4845	13	4819	18
	Location Mean	**7016**		**4253**		**3376**		**4882**		**5555**		**6225**		**5274**		**3230**		**4392**		**4686**	
	C.D. (5%)	2642		545		952		1380		1601		2570		2551		1184		1392		1385	
	C.V. (%)	18.59		6.32		13.91		**-**		14.22		**20.38**		**23.87**		18.09		**-**		-	
	F (Prob)	0.002		0		0				0.086		0		0.017		0					
	Plot Size	4.8		4.2		4.5		-		4.8		4.2		6		4.2		-		-	
	AGRONOMY DATA																				
	Sowing Date	15-07		14-10		28-07		-		6-07		5-07		1-07		-		-		-	
	Harvest Date	8-12		6-02		11-11		-		21-10		24-10		5-11		-		-		-	
	Irrigation Nos	-		-		-		-		-		-		-		-		-		-	
	Ferilizer Applied N	-		150		120		-		150		120		-		-		-		-	
	Ferilizer Applied P	-		75		60		-		80		60		-		-		-		-	
	Ferilizer Applied K	-		75		40		-		-		-		-		-		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V.: BHIL 20.4 %: CHHI 23.9 %

TABLE No. 23 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-1(C) PZ(ZN 4) DHAR	R	VAGA	R	KOLH	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	ADV 9293	-		-		6.4		-		-		6.7		-		29		9.5		1.3	
2	OMH 14-16 (CAH1424)	-		-		30.6		-		1.3		-		-		-		-		-	
3	OMH 14-27 (CAH1511)	-		0.5		-		-		8.7		3.9		-		51.5		25.2		5.6	
4	OMH 14-62 (CAH 142)	4.6		-		-		-		1		-		-		1.5		1.2		-	
5	RCRMH3 (CAH1526)	-		-		19.1		-		4.1		-		-		-		-		-	
6	RCRMH-4 (CAH1525)	12.6		-		16.6		9		19.4		-		-		-		3.2		7	
7	RCRMH-5 (CAH1535	-		-		-		-		-		-		-		-		-		-	
8	GK3206	-		-		-		-		1.2		0.1		-		46.6		18.7		-	
9	REH2014-5	-		-		8.9		-		2.2		-		-		-		-		-	
10	IMH 1619	-		-		-		-		9.9		-		-		-		-		-	
11	HQPM 1	-		-		-		-		10.8		-		-		1.5		7.2		-	
12	HQPM 4	3.8		-		-		-		-		-		-		-		-		-	
13	HQPM 5	-		-		-		-		-		-		-		-		-		-	
14	HQPM 7	-		-		-		-		1.9		-		-		-		-		-	
15	HM 11	0.4		0.9		-		-		8.5		-		-		-		-		-	
16	REH2014-4	-		-		-		-		-		-		-		-		-		-	
17	OMH 14-30(CAH 1514)	-		-		6		-		-		-		-		16.1		-		-	
18	DMH-24	-		-		13.5		-		-		-		-		-		-		-	
19	DMRH1302	-		2.8		34.1		-		6.3		-		-		16.8		10.4		2.9	
20	IMH 1618	-		-		16.2		-		2.4		6.4		-		60.1		24.6		7	
21	IMH 1626	-		-		-		-		4.3		-		-		22.3		11.2		-	
22	IMH1526	-		-		-		-		-		-		-		-		-		-	
23	IMH1533	-		2.2		58.1		8.3		-		-		-		25.6		6.2		7.6	
24	HM 4	-		-		-		-		-		-		-		12.4		-		-	
25	CMH 08-292	8.1		7.3		-		5.5		4.4		-		-		16.9		9.2		6.8	
26	AQH4	-		-		-		-		-		-		-		-		-		-	
27	AQH8	-		-		-		-		-		-		-		-		-		-	
28	AQH9	-		-		-		-		1.8		-		-		-		-		-	
29	ADH1601	-		11.6		-		-		23		2.3		-		-		-		-	
30	ADH1602	-		1.3		-		-		-		24		-		-		-		-	
31	ADH1603	-		-		-		-		-		-		-		-		-		-	
32	ADH1604	-		-		-		-		-		-		-		-		-		-	
	CHECKS																				
33	PMH-1(C)	-		-		-		-		-		-		-		-		-		-	
34	CMH 08-282(C)	2.5		-		33.7		1.1		-		-		-		36.9		8		3.5	
35	CMH 08-287(C)	2.7		-		-		-		0.7		11.9		-		32.4		12.9		-	
36	Seed tech 2324(C)	-		-		-		-		20.5		-		-		-		10.1		-	
37	HM 9(C)	-		-		-		-		-		-		-		-		-		-	
38	DHM 121(C)	-		-		-		-		-		18.5		-		-		-		-	
39	BIO 9544(C)	-		-		-		-		-		16.2		-		21.9		5.1		-	

TABLE No. 23 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-282(C)																CWZ			
		PZ(ZN 4)																ZN 5		OV'L	
		DHAR	R	VAGA	R	KOLH	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	MEAN	R	MEAN	R
1	ADV 9293	-		26.8		-		-		8.3		20.3		-		-		1.5		-	
2	OMH 14-16 (CAH1424)	-		25.5		-		-		12.8		-		-		-		-		-	
3	OMH 14-27 (CAH1511)	-		35.4		-		-		21		17.2		-		10.6		15.9		2.1	
4	OMH 14-62 (CAH 142)	2.1		-		-		-		12.4		-		-		-		-		-	
5	RCRMH3 (CAH1526)	-		30.1		-		-		15.9		-		-		-		-		-	
6	RCRMH-4 (CAH1525)	9.9		30.8		-		7.8		32.9		-		1.9		-		-		3.4	
7	RCRMH-5 (CAH1535	-		34.3		-		-		-		-		-		-		-		-	
8	GK3206	-		10.6		-		-		12.6		12.9		2.8		7.1		9.9		-	
9	REH2014-5	-		4.3		-		-		13.7		-		-		-		-		-	
10	IMH 1619	-		-		-		-		22.4		-		-		-		-		-	
11	HQPM 1	-		-		-		-		23.4		-		-		-		-		-	
12	HQPM 4	1.3		-		-		-		-		-		-		-		-		-	
13	HQPM 5	-		-		-		-		9.6		-		-		-		-		-	
14	HQPM 7	-		8.6		-		-		13.5		-		-		-		-		-	
15	HM 11	-		36		-		-		20.8		-		-		-		-		-	
16	REH2014-4	-		22.4		-		-		-		-		-		-		-		-	
17	OMH 14-30(CAH 1514)	-		-		-		-		-		-		-		-		-		-	
18	DMH-24	-		21.6		-		-		1.2		-		-		-		-		-	
19	DMRH1302	-		38.5		0.3		-		18.4		-		-		-		2.2		-	
20	IMH 1618	-		10.5		-		-		14		20		-		17		15.4		3.4	
21	IMH 1626	-		15.4		-		-		16.1		0.6		-		-		3		-	
22	IMH1526	-		26.4		-		-		4.6		-		-		-		-		-	
23	IMH1533	-		37.7		18.3		7.2		4.6		-		-		-		-		4	
24	HM 4	-		-		-		-		-		-		-		-		-		-	
25	CMH 08-292	5.5		44.5		-		4.4		16.2		7.9		-		-		1.1		3.2	
26	AQH4	-		-		-		-		-		-		-		-		-		-	
27	AQH8	-		20.7		-		-		3.4		-		-		-		-		-	
28	AQH9	-		-		-		-		13.3		-		-		-		-		-	
29	ADH1601	-		50.3		-		-		36.9		15.4		-		-		-		-	
30	ADH1602	-		36.4		-		-		8.3		39.8		-		-		-		-	
31	ADH1603	-		9.9		-		-		8.5		-		-		-		-		-	
32	ADH1604	-		-		-		-		-		-		-		-		-		-	
	CHECKS																				
33	PMH-1(C)	-		34.7		-		-		11.3		12.8		4.7		-		-		-	
34	CMH 08-282(C)	-		-		-		-		-		-		-		-		-		-	
35	CMH 08-287(C)	0.2		0.7		-		-		12.2		26.2		-		-		4.6		-	
36	Seed tech 2324(C)	-		-		-		-		34.1		8.8		-		-		2		-	
37	HM 9(C)	-		9.4		-		-		-		-		-		-		-		-	
38	DHM 121(C)	-		23		-		-		11.1		33.7		-		-		-		-	
39	BIO 9544(C)	-		-		-		-		5.3		31.1		-		-		-		-	

TABLE No. 23 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CMH 08-287(C)																CWZ ZN 5		OV'L	
		PZ(ZN 4)																			
		DHAR	R	VAGA	R	KOLH	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	MEAN	R	MEAN	R
1	ADV 9293	-		25.8		99.7		15.8		-		-		-		-		-		8	
2	OMH 14-16 (CAH1424)	-		24.5		145		17.4		0.5		-		-		-		-		0.2	
3	OMH 14-27 (CAH1511)	-		34.4		68.6		13.8		7.9		-		18.4		14.4		10.8		12.5	
4	OMH 14-62 (CAH 142)	1.9		-		47.8		3.4		0.2		-		12.6		-		-		-	
5	RCRMH3 (CAH1526)	-		29.1		123.5		5.7		3.3		-		-		-		-		-	
6	RCRMH-4 (CAH1525)	9.7		29.9		118.9		30.2		18.5		-		24.1		-		-		14	
7	RCRMH-5 (CAH1535	-		33.3		1.4		-		-		-		-		-		-		-	
8	GK3206	-		9.8		86		-		0.4		-		25.3		10.7		5.1		1.8	
9	REH2014-5	-		3.5		104.3		-		1.4		-		-		-		-		-	
10	IMH 1619	-		-		13.2		-		9.1		-		-		-		-		-	
11	HQPM 1	-		-		20.6		-		10		-		-		-		-		-	
12	HQPM 4	1.1		-		71.1		6.8		-		-		-		-		-		-	
13	HQPM 5	-		-		14.4		-		-		-		-		-		-		-	
14	HQPM 7	-		7.8		2.9		-		1.2		-		-		-		-		-	
15	HM 11	-		35		47.9		14.5		7.7		-		-		-		-		1.7	
16	REH2014-4	-		21.5		76		-		-		-		-		-		-		-	
17	OMH 14-30(CAH 1514)	-		-		98.9		0.3		-		-		-		-		-		-	
18	DMH-24	-		20.7		113		6.8		-		-		-		-		-		-	
19	DMRH1302	-		37.5		151.7		18.2		5.6		-		-		-		-		9.7	
20	IMH 1618	-		9.7		118		16.6		1.6		-		-		20.9		10.4		14	
21	IMH 1626	-		14.5		52.4		-		3.5		-		17.2		-		-		-	
22	IMH1526	-		25.5		65.8		10.8		-		-		13.8		-		-		-	
23	IMH1533	-		36.7		196.6		29.4		-		-		-		-		-		14.6	
24	HM 4	-		-		-		-		-		-		-		-		-		-	
25	CMH 08-292	5.3		43.4		82.5		26.1		3.6		-		11.5		-		-		13.8	
26	AQH4	-		-		-		-		-		-		-		-		-		-	
27	AQH8	-		19.8		29.3		-		-		-		-		-		-		-	
28	AQH9	-		-		27.6		-		1		-		-		-		-		-	
29	ADH1601	-		49.2		27.2		-		22.1		-		-		-		-		-	
30	ADH1602	-		35.4		32.1		-		-		10.7		-		-		-		-	
31	ADH1603	-		9.1		68.3		-		-		-		-		-		-		-	
32	ADH1604	-		-		13.8		-		-		-		-		-		-		-	
	CHECKS																				
33	PMH-1(C)	-		33.7		87.6		19.5		-		-		27.6		-		-		6.6	
34	CMH 08-282(C)	-		-		150.8		20.8		-		-		21.8		3.4		-		10.3	
35	CMH 08-287(C)	-		-		-		-		-		-		-		-		-		-	
36	Seed tech 2324(C)	-		-		73.8		-		19.6		-		-		-		-		-	
37	HM 9(C)	-		8.6		83.6		-		-		-		-		-		-		-	
38	DHM 121(C)	-		22.1		54.5		9.7		-		5.9		4.6		-		-		-	
39	BIO 9544(C)	-		-		38.6		-		-		3.8		1.1		-		-		-	

TABLE No. 23 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seed tech 2324(C)																CWZ			
		PZ(ZN 4)																ZN 5		OV'L	
		DHAR	R	VAGA	R	KOLH	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	MEAN	R	MEAN	R
1	ADV 9293	4.7		43.9		14.9		16.2		-		10.6		-		38		-		9.3	
2	OMH 14-16 (CAH1424)	-		42.5		40.9		17.8		-		-		1.2		-		-		1.5	
3	OMH 14-27 (CAH1511)	4.8		53.8		-		14.1		-		7.7		19.8		62		13.7		14	
4	OMH 14-62 (CAH 142)	16.2		-		-		3.7		-		-		14		8.5		-		-	
5	RCRMH3 (CAH1526)	-		47.7		28.6		6		-		-		-		-		-		-	
6	RCRMH-4 (CAH1525)	25.1		48.5		25.9		30.7		-		-		25.6		-		-		15.5	
7	RCRMH-5 (CAH1535	-		52.5		-		-		-		-		-		-		-		-	
8	GK3206	-		25.6		7		-		-		3.7		26.7		56.8		7.8		3.1	
9	REH2014-5	-		18.4		17.5		-		-		-		-		-		-		-	
10	IMH 1619	-		-		-		-		-		-		-		-		-		-	
11	HQPM 1	10.8		7.9		-		0		-		-		-		8.5		-		-	
12	HQPM 4	15.3		-		-		7.1		-		-		-		-		-		-	
13	HQPM 5	-		11.6		-		-		-		-		-		-		-		-	
14	HQPM 7	-		23.3		-		-		-		-		-		-		-		-	
15	HM 11	11.5		54.4		-		14.9		-		-		-		-		-		2.9	
16	REH2014-4	-		39		1.2		-		-		-		-		-		-		-	
17	OMH 14-30(CAH 1514)	-		9.6		14.4		0.7		-		-		-		24.2		-		-	
18	DMH-24	-		38		22.5		7.1		-		-		-		-		-		-	
19	DMRH1302	-		57.3		44.8		18.6		-		-		-		24.9		0.3		11	
20	IMH 1618	9.4		25.4		25.4		17		-		10.3		-		71.2		13.2		15.4	
21	IMH 1626	-		31		-		-		-		-		18.6		30.8		1		-	
22	IMH1526	4.4		43.5		-		11.2		-		-		15.1		-		-		-	
23	IMH1533	-		56.3		70.6		29.9		-		-		-		34.3		-		16.1	
24	HM 4	-		2.3		-		-		-		-		-		20.2		-		-	
25	CMH 08-292	20.1		64.1		5		26.5		-		-		12.8		25		-		15.2	
26	AQH4	-		-		-		-		-		-		-		-		-		-	
27	AQH8	-		37.1		-		-		-		-		-		-		-		-	
28	AQH9	-		-		-		-		-		-		-		-		-		-	
29	ADH1601	-		70.7		-		-		2.1		6		1.2		-		-		-	
30	ADH1602	-		54.9		-		-		-		28.5		-		-		-		-	
31	ADH1603	-		24.8		-		-		-		-		-		-		-		-	
32	ADH1604	-		-		-		-		-		-		-		-		-		-	
	CHECKS																				
33	PMH-1(C)	11		52.9		7.9		19.9		-		3.6		29.1		6.9		-		7.9	
34	CMH 08-282(C)	13.8		13.5		44.3		21.2		-		-		23.3		46.4		-		11.7	
35	CMH 08-287(C)	14		14.4		-		0.3		-		16		1.2		41.6		2.6		1.3	
36	Seed tech 2324(C)	-		-		-		-		-		-		-		-		-		-	
37	HM 9(C)	-		24.2		5.6		-		-		-		-		-		-		-	
38	DHM 121(C)	7		39.6		-		10.1		-		22.8		5.8		-		-		-	
39	BIO 9544(C)	6.4		4.8		-		-		-		20.4		2.3		30.4		-		-	

TABLE No. 23 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 9(C) PZ(ZN 4) DHAR	R	VAGA	R	KOLH	R	MEAN	R	CWZ ZN 5 BANS	R	BHIL	R	CHHI	R	UDAI	R	MEAN	R	OV'L MEAN	R
1	ADV 9293	30.2		15.9		8.7		20.3		26.4		91.3		36.1		51.4		36.7		25.9	
2	OMH 14-16 (CAH1424)	19.7		14.7		33.4		21.9		31.6		52.1		42.6		-		7.4		16.9	
3	OMH 14-27 (CAH1511)	30.3		23.8		-		18.1		41.2		86.3		68.9		77.7		56.2		31.3	
4	OMH 14-62 (CAH 142)	44.4		-		-		7.3		31.2		44		60.7		19.1		26.2		13.9	
5	RCRMH3 (CAH1526)	-		18.9		21.7		9.7		35.2		43.5		23		-		1.1		6.7	
6	RCRMH-4 (CAH1525)	55.5		19.6		19.2		35.2		55.1		45.2		77		-		28.8		33	
7	RCRMH-5 (CAH1535	-		22.8		-		-		15.1		-		4.9		-		-		-	
8	GK3206	5.8		1.1		1.3		3.2		31.4		79.4		78.7		72		48.1		18.7	
9	REH2014-5	-		-		11.3		-		32.7		24.8		4.9		-		-		-	
10	IMH 1619	3.3		-		-		-		42.8		51.4		3.3		-		21.8		-	
11	HQPM 1	37.8		-		-		3.5		44		39.8		-		19.1		33.8		14	
12	HQPM 4	43.3		-		-		10.9		6.9		7.4		13.1		-		3.3		8.2	
13	HQPM 5	12.8		-		-		-		27.9		33.2		31.1		-		15.2		0.4	
14	HQPM 7	10.3		-		-		-		32.4		25.6		36.1		2.3		20.1		2.1	
15	HM 11	38.6		24.3		-		18.9		40.9		58		13.1		-		18		18.6	
16	REH2014-4	-		11.9		-		-		-		9.9		-		-		-		-	
17	OMH 14-30(CAH 1514)	12.4		-		8.3		4.2		14.5		38.3		14.8		36.3		23.4		10.8	
18	DMH-24	7.5		11.2		16		10.8		18.1		9.5		19.7		5.3		12.8		11.5	
19	DMRH1302	11.4		26.6		37.1		22.7		38.1		56.1		31.1		37.1		37.7		27.9	
20	IMH 1618	36		1		18.7		21.1		33		90.7		41		87.9		55.5		33	
21	IMH 1626	0.9		5.5		-		-		35.5		59.9		67.2		43.5		38.8		11.7	
22	IMH1526	29.8		15.6		-		15.1		22		58.2		62.3		-		2.2		10.6	
23	IMH1533	23.6		25.9		61.5		34.4		22.1		45.7		1.6		47.4		32.5		33.7	
24	HM 4	-		-		-		-		-		-		-		31.9		5.6		-	
25	CMH 08-292	49.2		32.1		-		30.9		35.6		71.5		59		37.1		36.2		32.7	
26	AQH4	-		-		-		-		12.2		-		9.8		8.4		10.6		-	
27	AQH8	-		10.4		-		-		20.7		-		21.3		-		1.1		-	
28	AQH9	13.3		-		-		-		32.2		-		-		-		2.4		-	
29	ADH1601	-		37.4		-		0.3		59.8		83.4		42.6		-		16.7		6	
30	ADH1602	-		24.7		-		-		26.4		122.2		24.6		-		-		-	
31	ADH1603	10		0.5		-		2.3		26.6		23.2		21.3		-		4.8		3.2	
32	ADH1604	-		-		-		-		13.2		-		1.6		-		-		-	
	CHECKS																				
33	PMH-1(C)	38		23.2		2.2		24.1		29.9		79.3		82		17.4		24.8		24.3	
34	CMH 08-282(C)	41.4		-		36.6		25.4		16.7		59		73.8		60.7		34.7		28.6	
35	CMH 08-287(C)	41.8		-		-		3.8		30.9		100.7		42.6		55.4		40.9		16.6	
36	Seed tech 2324(C)	24.3		-		-		3.5		56.5		73		41		9.7		37.3		15.2	
37	HM 9(C)	-		-		-		-		-		-		-		-		-		-	
38	DHM 121(C)	33		12.5		-		13.9		29.6		112.5		49.2		-		13.4		13.7	
39	BIO 9544(C)	32.3		-		-		3		22.9		108.3		44.3		43.1		31.2		12.7	

TABLE No. 23 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DHM 121(C) PZ(ZN 4) DHAR	R	VAGA	R	KOLH	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	ADV 9293	-		3.1		29.2		5.6		-		-		-		68.3		20.5		10.7	
2	OMH 14-16 (CAH1424)	-		2		58.6		7		1.5		-		-		-		-		2.8	
3	OMH 14-27 (CAH1511)	-		10.1		9.1		3.7		8.9		-		13.2		97.5		37.7		15.4	
4	OMH 14-62 (CAH 142)	8.5		-		-		-		1.2		-		7.7		32.3		11.3		0.1	
5	RCRMH3 (CAH1526)	-		5.7		44.7		-		4.3		-		-		-		-		-	
6	RCRMH-4 (CAH1525)	16.9		6.4		41.7		18.7		19.6		-		18.7		1		13.6		16.9	
7	RCRMH-5 (CAH1535	-		9.2		-		-		-		-		-		-		-		-	
8	GK3206	-		-		20.4		-		1.4		-		19.8		91.2		30.6		4.4	
9	REH2014-5	-		-		32.3		-		2.4		-		-		-		-		-	
10	IMH 1619	-		-		-		-		10.2		-		-		1.8		7.5		-	
11	HQPM 1	3.6		-		-		-		11.1		-		-		32.3		18		0.2	
12	HQPM 4	7.7		-		10.8		-		-		-		-		9		-		-	
13	HQPM 5	-		-		-		-		-		-		-		7.7		1.6		-	
14	HQPM 7	-		-		-		-		2.1		-		-		13.7		5.9		-	
15	HM 11	4.2		10.6		-		4.4		8.7		-		-		-		4		4.3	
16	REH2014-4	-		-		13.9		-		-		-		-		-		-		-	
17	OMH 14-30(CAH 1514)	-		-		28.7		-		-		-		-		51.4		8.8		-	
18	DMH-24	-		-		37.9		-		-		-		-		17		-		-	
19	DMRH1302	-		12.6		62.9		7.7		6.6		-		-		52.3		21.4		12.5	
20	IMH 1618	2.2		-		41.1		6.3		2.6		-		-		108.8		37.1		16.9	
21	IMH 1626	-		-		-		-		4.5		-		12.1		59.5		22.4		-	
22	IMH1526	-		2.8		7.3		1		-		-		8.8		-		-		-	
23	IMH1533	-		12		92		18		-		-		-		63.8		16.8		17.6	
24	HM 4	-		-		-		-		-		-		-		46.6		-		-	
25	CMH 08-292	12.2		17.5		18.1		14.9		4.6		-		6.6		52.4		20.2		16.7	
26	AQH4	-		-		-		-		-		-		-		20.4		-		-	
27	AQH8	-		-		-		-		-		-		-		-		-		-	
28	AQH9	-		-		-		-		2		-		-		-		-		-	
29	ADH1601	-		22.2		-		-		23.3		-		-		-		2.9		-	
30	ADH1602	-		10.9		-		-		-		4.6		-		-		-		-	
31	ADH1603	-		-		8.9		-		-		-		-		-		-		-	
32	ADH1604	-		-		-		-		-		-		-		-		-		-	
	CHECKS																				
33	PMH-1(C)	3.8		9.5		21.5		8.9		0.2		-		22		30.4		10		9.3	
34	CMH 08-282(C)	6.3		-		62.4		10.1		-		-		16.5		78.5		18.8		13.1	
35	CMH 08-287(C)	6.6		-		-		-		1		-		-		72.7		24.3		2.6	
36	Seed tech 2324(C)	-		-		12.5		-		20.7		-		-		21.9		21.1		1.3	
37	HM 9(C)	-		-		18.9		-		-		-		-		11.1		-		-	
38	DHM 121(C)	-		-		-		-		-		-		-		-		-		-	
39	BIO 9544(C)	-		-		-		-		-		-		-		59		15.7		-	

TABLE No. 23 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9544(C) PZ(ZN 4) DHAR	R	VAGA	R	KOLH	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	ADV 9293	-		37.3		44.1		16.7		2.9		-		-		5.8		4.2		11.7	
2	OMH 14-16 (CAH1424)	-		35.9		76.8		18.3		7.1		-		-		-		-		3.7	
3	OMH 14-27 (CAH1511)	-		46.7		21.6		14.6		14.9		-		17		24.2		19.1		16.4	
4	OMH 14-62 (CAH 142)	9.1		-		6.6		4.2		6.7		-		11.4		-		-		1	
5	RCRMH3 (CAH1526)	-		40.9		61.3		6.5		10		-		-		-		-		-	
6	RCRMH-4 (CAH1525)	17.5		41.7		57.9		31.3		26.2		-		22.7		-		-		18	
7	RCRMH-5 (CAH1535	-		45.5		-		-		-		-		-		-		-		-	
8	GK3206	-		19.8		34.2		0.2		6.9		-		23.9		20.2		12.9		5.3	
9	REH2014-5	-		13		47.4		-		8		-		-		-		-		-	
10	IMH 1619	-		-		-		-		16.2		-		-		-		-		-	
11	HQPM 1	4.1		2.9		-		0.5		17.1		-		-		-		2		1.1	
12	HQPM 4	8.3		-		23.5		7.6		-		-		-		-		-		-	
13	HQPM 5	-		6.5		-		-		4.1		-		-		-		-		-	
14	HQPM 7	-		17.6		-		-		7.7		-		-		-		-		-	
15	HM 11	4.8		47.3		6.7		15.4		14.6		-		-		-		-		5.2	
16	REH2014-4	-		32.6		27		-		-		-		-		-		-		-	
17	OMH 14-30(CAH 1514)	-		4.6		43.5		1.1		-		-		-		-		-		-	
18	DMH-24	-		31.7		53.7		7.6		-		-		-		-		-		-	
19	DMRH1302	-		50		81.6		19.1		12.4		-		-		-		5		13.4	
20	IMH 1618	2.8		19.7		57.3		17.5		8.2		-		-		31.3		18.5		17.9	
21	IMH 1626	-		25		9.9		-		10.2		-		15.9		0.3		5.8		-	
22	IMH1526	-		36.9		19.6		11.7		-		-		12.5		-		-		-	
23	IMH1533	-		49.2		114		30.5		-		-		-		3		1		18.6	
24	HM 4	-		-		-		-		-		-		-		-		-		-	
25	CMH 08-292	12.8		56.5		31.7		27.1		10.3		-		10.2		-		3.9		17.7	
26	AQH4	-		-		-		-		-		-		-		-		-		-	
27	AQH8	-		30.8		-		-		-		-		-		-		-		-	
28	AQH9	-		-		-		-		7.6		-		-		-		-		-	
29	ADH1601	-		62.8		-		-		30		-		-		-		-		-	
30	ADH1602	-		47.8		-		-		2.8		6.7		-		-		-		-	
31	ADH1603	-		19		21.4		-		3		-		-		-		-		-	
32	ADH1604	-		-		-		-		-		-		-		-		-		-	
	CHECKS																				
33	PMH-1(C)	4.3		45.9		35.4		20.5		5.7		-		26.1		-		-		10.3	
34	CMH 08-282(C)	6.9		8.3		81		21.7		-		-		20.5		12.3		2.7		14.1	
35	CMH 08-287(C)	7.1		9.1		-		0.8		6.5		-		-		8.6		7.4		3.5	
36	Seed tech 2324(C)	-		-		25.4		0.5		27.3		-		-		-		4.7		2.2	
37	HM 9(C)	-		18.5		32.5		-		-		-		-		-		-		-	
38	DHM 121(C)	0.6		33.2		11.5		10.6		5.5		2		3.4		-		-		0.9	
39	BIO 9544(C)	-		-		-		-		-		-		-		-		-		-	

TABLE No. 23 (Contd.)

S. No.	PEDIGREE	GRAIN SHELLING % DHAR	VAGA	KOLH	PZ(ZN 4) Mean	BANS	BHIL	UDAI	CWZ ZN 5 Mean	OV'L Mean	MOISTURE % AT HARVEST DHAR	VAGA	KOLH	PZ(ZN 4) Mean	BANS	BHIL	CWZ ZN 5 Mean	OV'L Mean
1	ADV 9293	86.2	77.8	66.7	76.9	73.6	85.6	80.8	80.0	78.4	14.5	16.1	19.8	16.8	16.4	17.4	16.9	16.8
2	OMH 14-16 (CAH1424)	85.4	77.5	77.3	80.0	77.2	82.2	77.2	78.9	79.5	16.6	16.3	16.4	16.4	17.6	15.1	16.4	16.4
3	OMH 14-27 (CAH1511)	86.7	78.0	74.4	79.7	77.4	83.8	79.5	80.2	80.0	17.9	15.9	16.7	16.8	17.2	17.1	17.2	17.0
4	OMH 14-62 (CAH 142)	88.6	75.9	73.5	79.3	76.8	84.2	83.0	81.3	80.3	13.9	16.2	18.9	16.3	17.2	17.0	17.1	16.6
5	RCRMH3 (CAH1526)	85.3	75.7	68.2	76.4	76.8	83.3	77.0	79.0	77.7	11.8	15.9	19.3	15.7	17.6	14.4	16.0	15.8
6	RCRMH-4 (CAH1525)	85.7	77.8	73.3	78.9	76.4	82.7	80.3	79.8	79.4	13.9	15.5	16.4	15.3	16.6	16.6	16.6	15.8
7	RCRMH-5 (CAH1535	83.3	76.7	70.8	76.9	75.8	82.7	74.6	77.7	77.3	14.7	15.6	18.5	16.3	16.9	18.6	17.7	16.8
8	GK3206	84.2	76.5	69.2	76.6	76.3	79.6	82.0	79.3	78.0	14.4	16.2	19.3	16.6	17.4	17.6	17.5	17.0
9	REH2014-5	87.0	76.9	79.0	80.9	76.2	81.3	78.6	78.7	79.8	19.1	15.6	19.7	18.1	17.6	18.5	18.0	18.1
10	IMH 1619	85.0	76.7	70.8	77.5	78.1	81.5	82.3	80.6	79.1	13.1	16.1	17.6	15.6	16.8	17.5	17.1	16.2
11	HQPM 1	85.3	79.6	75.5	80.1	77.9	83.7	80.3	80.6	80.4	13.6	16.2	16.4	15.4	17.8	18.3	18.0	16.4
12	HQPM 4	82.7	77.1	69.0	76.2	75.2	78.8	79.7	77.9	77.1	16.1	15.7	17.6	16.5	16.8	17.6	17.2	16.7
13	HQPM 5	84.0	77.0	72.0	77.7	77.3	82.0	79.1	79.5	78.6	13.2	16.8	19.3	16.4	17.3	18.1	17.7	16.9
14	HQPM 7	84.2	78.5	64.9	75.9	74.8	82.5	77.5	78.3	77.1	12.6	16.1	19.0	15.9	17.9	14.5	16.2	16.0
15	HM 11	84.9	77.5	65.4	75.9	77.0	77.5	79.7	78.1	77.0	12.6	15.6	18.9	15.7	17.9	18.4	18.1	16.7
16	REH2014-4	85.5	75.9	74.1	78.5	76.3	80.6	85.7	80.9	79.7	15.3	15.8	18.0	16.4	17.2	18.6	17.9	17.0
17	OMH 14-30(CAH 1514)	86.6	77.4	70.5	78.2	76.3	84.3	80.9	80.5	79.3	13.0	15.9	15.2	14.7	16.6	16.5	16.5	15.4
18	DMH-24	82.5	76.6	73.0	77.3	76.8	79.1	78.5	78.1	77.7	13.8	15.5	15.5	14.9	17.0	16.4	16.7	15.6
19	DMRH1302	86.2	78.3	77.8	80.7	77.9	82.4	83.2	81.2	80.9	14.1	16.5	19.0	16.5	17.2	14.4	15.8	16.2
20	IMH 1618	85.8	77.0	75.0	79.3	75.6	84.3	81.6	80.5	79.9	13.6	16.3	14.9	14.9	17.2	18.0	17.6	16.0
21	IMH 1626	83.1	77.2	67.7	76.0	77.0	81.0	78.9	78.9	77.5	11.4	15.7	18.5	15.2	17.2	14.9	16.1	15.5
22	IMH1526	86.9	76.3	69.7	77.6	76.5	81.9	76.4	78.3	77.9	11.9	15.9	18.9	15.6	16.8	16.7	16.8	16.0
23	IMH1533	86.6	77.8	79.0	81.1	76.0	84.3	80.0	80.1	80.6	14.9	16.1	17.6	16.2	16.8	15.4	16.1	16.2
24	HM 4	83.6	78.4	41.4	67.8	74.9	82.0	82.4	79.8	73.8	11.5	15.3	16.4	14.4	17.3	14.8	16.1	15.0
25	CMH 08-292	85.8	77.8	79.4	81.0	77.2	83.0	77.8	79.3	80.2	14.5	15.6	17.6	15.9	17.0	18.9	18.0	16.7
26	AQH4	84.0	77.0	35.7	65.6	76.2	81.2	82.3	79.9	72.7	12.8	15.7	18.8	15.8	17.9	14.4	16.2	15.9
27	AQH8	85.5	78.0	76.7	80.0	75.6	83.5	83.9	81.0	80.5	14.4	16.4	17.2	16.0	17.7	17.2	17.5	16.6
28	AQH9	84.9	77.9	62.5	75.1	76.4	79.5	79.9	78.6	76.9	13.5	15.6	16.4	15.2	16.8	14.2	15.5	15.3
29	ADH1601	85.2	76.5	75.0	78.9	77.0	80.2	75.4	77.5	78.2	14.7	16.8	19.0	16.8	17.6	17.0	17.3	17.0
30	ADH1602	84.9	78.4	66.7	76.6	75.7	82.0	79.0	78.9	77.8	14.3	16.2	18.5	16.3	16.8	12.4	14.6	15.6
31	ADH1603	85.0	77.7	79.2	80.6	77.4	82.2	82.2	80.6	80.6	12.5	16.3	17.2	15.3	16.4	15.9	16.2	15.7
32	ADH1604	86.1	77.0	73.3	78.8	76.2	83.7	83.2	81.0	79.9	11.6	15.9	19.2	15.6	17.4	15.9	16.7	16.0
	CHECKS																	
33	PMH-1(C)	84.4	77.8	79.3	80.5	75.8	80.8	78.9	78.5	79.5	13.3	15.5	18.0	15.6	17.6	18.1	17.8	16.5
34	CMH 08-282(C)	85.3	78.5	77.1	80.3	77.6	79.5	79.6	78.9	79.6	16.4	15.3	17.2	16.3	16.8	18.6	17.7	16.8
35	CMH 08-287(C)	85.3	77.3	63.9	75.5	76.2	82.9	81.8	80.3	77.9	14.4	15.7	19.7	16.6	17.2	19.9	18.5	17.4
36	Seed tech 2324(C)	87.5	78.8	75.6	80.6	78.0	82.9	80.7	80.5	80.6	14.7	16.9	18.4	16.7	16.8	23.9	20.3	18.1
37	HM 9(C)	85.8	76.3	76.9	79.6	76.3	81.1	79.7	79.0	79.3	15.0	15.9	14.4	15.1	17.9	14.4	16.2	15.5
38	DHM 121(C)	81.2	75.8	70.8	75.9	76.0	80.6	81.3	79.3	77.6	14.0	15.0	18.4	15.8	17.1	16.9	17.0	16.3
39	BIO 9544(C)	87.2	79.0	75.0	80.4	76.8	82.7	85.0	81.5	80.9	13.3	16.4	19.2	16.3	17.0	19.4	18.2	17.1
	Loc. Mean	**85.2**	**77.4**	**70.9**	**77.8**	**76.5**	**82.0**	**80.2**	**79.6**	**78.7**	**14.0**	**15.9**	**17.9**	**15.9**	**17.2**	**16.9**	**17.0**	**16.4**
	C.D. (5%)	2.09	3.43	0.00	8.29	0.00	3.13	6.67	2.95	4.37	4.64	1.20	-	2.11	-	0.19	3.11	1.65
	C.V. (%)	1.21	2.19	0.00	6.55	0.00	1.88	4.11	2.28	4.88	16.39	3.73	-	8.12	-	0.54	9.01	8.05
	F (Prob)	0.00	0.94	0.00	0.25	0.00	0.00	0.35	0.34	0.12	0.45	0.43	0.00	0.54	0.00	0.00	0.64	0.07

TABLE No. 23 (Contd.)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) DHAR	VAGA	KOLH	PZ(ZN 4) Mean	BANS	BHIL	CHHI	UDAI	CWZ ZN 5 Mean	OV'L Mean
1	ADV 9293	55.2	46.4	44.4	48.7	65.6	59.5	50.0	54.8	57.5	53.7
2	OMH 14-16 (CAH1424)	50.0	50.0	51.1	50.4	65.6	58.3	52.5	57.1	58.4	55.0
3	OMH 14-27 (CAH1511)	37.5	41.7	41.1	40.1	65.6	56.0	58.3	51.2	57.8	50.2
4	OMH 14-62 (CAH 142)	47.9	46.4	37.8	44.0	62.5	60.7	56.7	57.1	59.3	52.7
5	RCRMH3 (CAH1526)	43.8	44.0	47.8	45.2	70.8	59.5	56.7	46.4	58.4	52.7
6	RCRMH-4 (CAH1525)	64.6	45.2	52.2	54.0	59.4	64.3	56.7	56.0	59.1	56.9
7	RCRMH-5 (CAH1535	55.2	44.0	50.0	49.8	66.7	61.9	59.2	53.6	60.3	55.8
8	GK3206	58.3	45.2	52.2	51.9	62.5	54.8	58.3	60.7	59.1	56.0
9	REH2014-5	40.6	40.5	36.7	39.3	62.5	64.3	56.7	44.0	56.9	49.3
10	IMH 1619	52.1	40.5	48.9	47.1	66.7	54.8	56.7	57.1	58.8	53.8
11	HQPM 1	60.4	44.0	48.9	51.1	69.8	65.5	50.8	54.8	60.2	56.3
12	HQPM 4	57.3	47.6	45.6	50.2	61.5	47.6	60.8	48.8	54.7	52.7
13	HQPM 5	53.1	42.9	45.6	47.2	60.4	54.8	50.8	47.6	53.4	50.7
14	HQPM 7	55.2	42.9	44.4	47.5	66.7	67.9	51.7	56.0	60.5	55.0
15	HM 11	59.4	47.6	48.9	52.0	64.6	66.7	52.5	47.6	57.8	55.3
16	REH2014-4	42.7	41.7	38.9	41.1	66.7	56.0	57.5	44.0	56.0	49.6
17	OMH 14-30(CAH 1514)	35.4	47.6	40.0	41.0	67.7	58.3	55.8	45.2	56.8	50.0
18	DMH-24	61.5	42.9	46.7	50.3	66.7	60.7	65.8	57.1	62.6	57.3
19	DMRH1302	57.3	41.7	50.0	49.7	69.8	67.9	63.3	60.7	65.4	58.7
20	IMH 1618	59.4	48.8	46.7	51.6	65.6	59.5	47.5	57.1	57.4	54.9
21	IMH 1626	66.7	45.2	51.1	54.3	65.6	65.5	60.0	50.0	60.3	57.7
22	IMH1526	62.5	48.8	41.1	50.8	65.6	67.9	48.3	47.6	57.4	54.6
23	IMH1533	52.1	46.4	52.2	50.2	65.6	66.7	54.2	50.0	59.1	55.3
24	HM 4	49.0	45.2	50.0	48.1	68.8	50.0	50.0	50.0	54.7	51.8
25	CMH 08-292	51.0	52.4	47.8	50.4	63.5	66.7	55.8	50.0	59.0	55.3
26	AQH4	56.3	41.7	44.4	47.5	67.7	56.0	55.0	57.1	59.0	54.0
27	AQH8	29.2	42.9	42.2	38.1	59.4	58.3	52.5	46.4	54.2	47.3
28	AQH9	45.8	42.9	45.6	44.7	58.3	48.8	50.8	31.0	47.2	46.2
29	ADH1601	49.0	46.4	40.0	45.1	68.8	67.9	49.2	51.2	59.2	53.2
30	ADH1602	50.0	47.6	38.9	45.5	61.5	69.0	53.3	57.1	60.2	53.9
31	ADH1603	52.1	44.0	38.9	45.0	62.5	69.0	51.7	60.7	61.0	54.1
32	ADH1604	39.6	39.3	40.0	39.6	58.3	56.0	58.3	41.7	53.6	47.6
	CHECKS										
33	PMH-1(C)	49.0	41.7	42.2	44.3	61.5	58.3	60.8	52.4	58.3	52.3
34	CMH 08-282(C)	70.8	48.8	47.8	55.8	68.8	58.3	61.7	59.5	62.1	59.4
35	CMH 08-287(C)	49.0	50.0	46.7	48.5	64.6	61.9	51.7	56.0	58.5	54.2
36	Seed tech 2324(C)	42.7	44.0	50.0	45.6	63.5	61.9	51.7	56.0	58.3	52.8
37	HM 9(C)	44.8	53.6	40.0	46.1	59.4	64.3	60.0	47.6	57.8	52.8
38	DHM 121(C)	44.8	40.5	46.7	44.0	62.5	65.5	50.0	48.8	56.7	51.2
39	BIO 9544(C)	60.4	52.4	42.2	51.7	68.8	67.9	55.0	52.4	61.0	57.0
	Loc. Mean	**51.6**	**45.3**	**45.3**	**47.4**	**64.7**	**61.0**	**55.1**	**51.9**	**58.1**	**53.5**
	C.D. (5%)	15.27	8.48	7.98	8.62	7.96	12.30	10.10	10.74	6.57	5.28
	C.V. (%)	14.62	9.25	8.70	11.19	6.08	9.96	9.06	10.23	8.06	9.36
	F (Prob)	0.00	0.12	0.00	0.00	0.11	0.04	0.08	0.00	0.02	0.00

DAYS TO 50% POLLEN SHED DHAR	VAGA	KOLH	PZ(ZN 4) Mean	BANS	BHIL	CHHI	UDAI	CWZ ZN 5 Mean	OV'L Mean
64.0	55.5	58.0	59.2	48.5	50.5	65.0	54.5	54.6	56.6
58.0	48.5	55.5	54.0	47.0	50.0	59.0	53.0	52.3	53.0
57.5	52.5	57.0	55.7	50.0	51.0	61.5	53.0	53.9	54.6
62.0	53.5	55.5	57.0	48.5	52.0	64.0	52.5	54.3	55.4
63.0	53.5	56.0	57.5	49.5	51.5	63.5	52.0	54.1	55.6
60.0	49.5	58.0	55.8	51.0	50.5	59.5	50.5	52.9	54.1
60.5	55.5	57.0	57.7	50.5	51.5	64.0	50.5	54.1	55.6
63.0	54.0	56.0	57.7	49.0	52.5	63.5	51.0	54.0	55.6
61.0	53.0	57.0	57.0	48.5	50.0	65.5	52.0	54.0	55.3
58.5	48.5	55.0	54.0	49.0	50.0	63.5	52.0	53.6	53.8
59.5	53.5	58.0	57.0	48.5	51.0	65.0	52.0	54.1	55.4
60.0	53.5	57.0	56.8	50.0	52.0	61.5	52.0	53.9	55.1
60.5	54.0	58.0	57.5	49.5	52.0	64.0	52.0	54.4	55.7
60.5	51.5	57.0	56.3	49.0	52.0	64.5	52.0	54.4	55.2
58.0	52.5	57.0	55.8	48.5	50.5	61.5	52.0	53.1	54.3
59.5	54.0	58.0	57.2	50.5	52.0	61.5	49.0	53.3	54.9
58.0	51.5	57.0	55.5	47.0	51.0	60.5	50.0	52.1	53.6
55.0	46.5	54.5	52.0	50.5	48.0	59.0	45.5	50.8	51.3
56.0	47.0	53.5	52.2	49.0	46.0	59.0	45.0	49.8	50.8
57.5	52.0	55.0	54.8	51.0	49.5	60.0	47.5	52.0	53.2
60.0	52.5	58.0	56.8	50.0	52.0	65.5	52.0	54.9	55.7
60.0	50.5	58.0	56.2	49.0	49.5	60.0	51.0	52.4	54.0
56.0	48.5	54.0	52.8	47.0	51.0	62.5	47.0	51.9	52.3
57.0	50.5	57.0	54.8	49.0	49.0	60.0	48.0	51.5	52.9
58.0	50.5	56.0	54.8	49.0	49.5	61.5	50.0	52.5	53.5
58.0	49.5	58.0	55.2	49.0	48.5	59.5	48.0	51.3	52.9
59.0	50.5	58.0	55.8	50.0	51.0	62.0	50.0	53.3	54.4
58.0	47.5	57.0	54.2	49.5	50.5	61.5	50.0	52.9	53.4
58.5	50.5	55.5	54.8	49.5	51.5	60.5	50.0	52.9	53.7
56.0	50.5	55.0	53.8	50.5	48.5	58.5	46.5	51.0	52.2
55.0	48.5	54.0	52.5	47.5	47.0	60.0	47.0	50.4	51.3
55.0	47.5	53.5	52.0	50.0	47.0	61.5	51.0	52.4	52.2
58.5	53.5	58.0	56.7	48.0	50.0	63.5	51.0	53.1	54.6
58.5	49.0	53.5	53.7	51.5	48.0	59.5	49.0	52.0	52.7
62.0	53.0	58.0	57.7	50.5	51.0	65.5	52.0	54.8	56.0
59.0	51.5	58.0	56.2	48.5	51.0	62.0	50.0	52.9	54.3
56.5	47.5	57.5	53.8	50.0	51.0	60.0	50.0	52.8	53.2
59.0	53.5	58.0	56.8	49.5	51.0	62.5	53.0	54.0	55.2
59.5	53.5	58.0	57.0	49.0	49.5	63.0	50.0	52.9	54.6
58.9	**51.2**	**56.5**	**55.5**	**49.3**	**50.3**	**61.9**	**50.3**	**52.9**	**54.1**
2.02	1.51	1.14	2.16	3.44	2.91	2.13	1.51	2.07	1.49
1.70	1.46	0.99	2.40	3.45	2.86	1.70	1.48	2.79	2.62
0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00

TABLE No. 23 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% SILKING DHAR	VAGA	KOLH	PZ(ZN 4) Mean	BANS	BHIL	CHHI	UDAI	CWZ ZN 5 Mean	OV'L Mean	DAYS TO 75% DRY HUSK DHAR	VAGA	KOLH	PZ(ZN 4) Mean	BANS	BHIL	CHHI	CWZ ZN 5 Mean	OV'L Mean
1	ADV 9293	65.0	58.5	60.0	61.2	51.5	55.5	65.0	57.0	57.3	58.9	110.0	98.0	100.0	102.7	82.5	78.0	102.5	87.7	95.2
2	OMH 14-16 (CAH1424)	59.5	52.0	58.0	56.5	50.0	55.0	59.5	56.0	55.1	55.7	109.0	93.0	98.0	100.0	80.0	76.5	103.5	86.7	93.3
3	OMH 14-27 (CAH1511)	57.5	55.5	59.0	57.3	53.0	56.0	61.5	56.0	56.6	56.9	111.0	95.5	99.0	101.8	83.0	77.5	101.0	87.2	94.5
4	OMH 14-62 (CAH 142)	63.0	57.0	58.0	59.3	51.5	57.0	64.0	55.0	56.9	57.9	108.0	98.0	98.0	101.3	82.5	79.5	103.5	88.5	94.9
5	RCRMH3 (CAH1526)	63.0	57.0	58.0	59.3	52.5	55.0	64.0	55.0	56.6	57.8	108.0	98.0	97.5	101.2	83.5	79.5	102.0	88.3	94.8
6	RCRMH-4 (CAH1525)	61.0	52.5	60.0	57.8	54.0	55.5	60.5	54.0	56.0	56.8	107.0	93.0	100.0	100.0	84.5	80.5	102.5	89.2	94.6
7	RCRMH-5 (CAH1535	63.0	59.5	59.0	60.5	53.5	56.5	64.5	54.0	57.1	58.6	109.0	99.5	99.0	102.5	84.0	79.5	103.0	88.8	95.7
8	GK3206	65.0	57.0	58.0	60.0	52.0	57.5	64.0	54.0	56.9	58.2	107.0	97.5	98.0	100.8	84.0	80.5	102.5	89.0	94.9
9	REH2014-5	63.0	56.0	59.0	59.3	51.5	54.0	65.5	55.0	56.5	57.7	109.0	95.0	99.0	101.0	81.5	76.5	102.0	86.7	93.8
10	IMH 1619	61.0	52.5	57.0	56.8	52.0	54.5	65.0	56.0	56.9	56.9	106.0	91.5	97.0	98.2	81.0	78.0	101.5	86.8	92.5
11	HQPM 1	60.5	56.5	60.0	59.0	51.5	55.0	66.0	55.0	56.9	57.8	113.0	96.5	100.0	103.2	82.5	75.0	104.5	87.3	95.3
12	HQPM 4	61.5	56.5	59.0	59.0	53.0	57.0	63.5	55.0	57.1	57.9	109.0	95.5	99.0	101.2	83.5	75.5	101.5	86.8	94.0
13	HQPM 5	62.5	57.0	60.0	59.8	52.5	56.0	65.0	55.0	57.1	58.3	108.0	97.5	100.0	101.8	84.0	79.0	105.5	89.5	95.7
14	HQPM 7	62.5	54.5	59.0	58.7	52.0	56.5	64.5	55.0	57.0	57.7	106.0	93.0	99.0	99.3	80.5	80.5	104.5	88.5	93.9
15	HM 11	59.5	55.5	59.0	58.0	51.5	56.0	62.5	55.0	56.3	57.0	107.0	95.5	99.0	100.5	82.0	77.0	104.5	87.8	94.2
16	REH2014-4	60.0	57.0	60.0	59.0	53.5	57.0	63.0	55.0	57.1	57.9	110.0	98.0	100.0	102.7	84.0	79.5	102.0	88.5	95.6
17	OMH 14-30(CAH 1514)	58.5	54.5	59.0	57.3	50.0	55.5	61.5	54.0	55.3	56.1	104.5	93.5	99.0	99.0	81.0	74.5	104.0	86.5	92.8
18	DMH-24	56.0	49.5	55.5	53.7	53.5	53.0	59.5	49.0	53.8	53.7	105.0	90.5	95.0	96.8	82.5	75.0	100.5	86.0	91.4
19	DMRH1302	57.5	51.5	55.0	54.7	52.0	50.0	60.0	49.0	52.8	53.6	105.0	92.5	95.0	97.5	83.5	76.5	99.5	86.5	92.0
20	IMH 1618	59.0	55.0	57.0	57.0	54.0	54.5	61.0	49.0	54.6	55.6	103.5	94.0	97.0	98.2	84.5	80.0	103.0	89.2	93.7
21	IMH 1626	62.0	55.5	60.0	59.2	53.0	57.0	66.0	55.0	57.8	58.4	103.0	94.5	100.0	99.2	84.0	78.0	101.5	87.8	93.5
22	IMH1526	61.5	54.5	60.0	58.7	52.0	54.5	61.0	54.0	55.4	56.8	109.0	92.0	100.0	100.3	81.5	80.5	104.5	88.8	94.6
23	IMH1533	58.0	51.5	56.0	55.2	50.0	55.5	64.0	55.0	56.1	55.7	106.0	92.0	96.0	98.0	81.0	77.5	101.0	86.5	92.3
24	HM 4	57.5	53.5	59.0	56.7	52.0	54.5	60.0	55.0	55.4	55.9	103.5	94.5	99.0	99.0	83.0	78.0	100.0	87.0	93.0
25	CMH 08-292	59.0	53.5	57.5	56.7	52.0	53.5	62.5	54.0	55.5	56.0	104.5	92.5	97.5	98.2	82.0	76.5	100.0	86.2	92.2
26	AQH4	59.5	52.5	60.0	57.3	52.0	53.5	60.0	53.0	54.6	55.8	103.5	91.5	100.0	98.3	83.0	80.5	99.0	87.5	92.9
27	AQH8	60.5	53.5	60.0	58.0	53.0	56.0	62.0	54.0	56.3	57.0	107.0	94.0	100.0	100.3	81.5	77.0	103.0	87.2	93.8
28	AQH9	59.0	51.5	59.0	56.5	52.5	55.5	60.5	54.0	55.6	56.0	107.0	91.5	99.0	99.2	83.0	78.5	102.5	88.0	93.6
29	ADH1601	60.0	53.5	58.0	57.2	52.5	56.5	60.5	54.0	55.9	56.4	110.0	94.0	98.0	100.7	82.5	77.0	101.5	87.0	93.8
30	ADH1602	57.0	53.5	56.0	55.5	53.5	53.0	59.5	49.0	53.8	54.5	104.5	92.5	96.0	97.7	84.0	76.5	101.0	87.2	92.4
31	ADH1603	56.5	52.0	55.0	54.5	50.5	52.0	61.0	53.0	54.1	54.3	108.0	92.0	95.0	98.3	81.5	75.5	100.5	85.8	92.1
32	ADH1604	57.5	51.5	55.0	54.7	53.0	52.0	62.0	55.0	55.5	55.1	107.0	91.5	95.0	97.8	83.0	76.5	101.5	87.0	92.4
	CHECKS																			
33	PMH-1(C)	59.5	56.5	60.0	58.7	51.0	55.0	64.5	54.0	56.1	57.2	105.0	96.5	100.0	100.5	80.5	78.5	100.5	86.5	93.5
34	CMH 08-282(C)	59.0	52.5	55.0	55.5	54.5	52.5	60.5	55.0	55.6	55.6	101.0	92.0	95.0	96.0	84.0	79.0	100.0	87.7	91.8
35	CMH 08-287(C)	64.0	56.0	60.0	60.0	53.5	55.5	66.0	55.0	57.5	58.6	108.0	94.5	100.0	100.8	84.0	81.0	104.0	89.7	95.3
36	Seed tech 2324(C)	60.0	54.5	60.0	58.2	51.5	56.0	63.0	54.0	56.1	57.0	107.0	94.0	100.0	100.3	82.0	80.0	99.0	87.0	93.7
37	HM 9(C)	58.5	51.0	60.0	56.5	53.0	56.0	60.5	55.0	56.1	56.3	106.0	91.5	100.0	99.2	83.5	76.5	99.5	86.5	92.8
38	DHM 121(C)	61.0	56.5	60.0	59.2	52.5	56.0	63.5	56.0	57.0	57.9	108.0	95.0	100.0	101.0	83.5	79.5	100.5	87.8	94.4
39	BIO 9544(C)	60.5	56.5	60.0	59.0	52.0	54.5	63.5	54.0	56.0	57.3	106.0	95.5	100.0	100.5	83.0	79.5	103.0	88.5	94.5
	Loc. Mean	**60.2**	**54.5**	**58.5**	**57.7**	**52.3**	**55.0**	**62.6**	**54.1**	**56.0**	**56.7**	**106.9**	**94.3**	**98.4**	**99.9**	**82.7**	**78.1**	**101.9**	**87.6**	**93.7**
	C.D. (5%)	2.58	1.46	1.17	2.21	3.44	3.28	1.90	-	2.11	1.54	3.78	1.88	1.16	2.75	3.51	4.81	2.07	2.44	1.91
	C.V. (%)	2.12	1.32	0.99	2.35	3.25	2.94	1.50	-	2.68	2.57	1.75	0.99	0.58	1.70	2.10	3.04	1.00	1.71	1.79
	F (Prob)	0.00	0.00	0.00	0.00	0.70	0.02	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.31	0.00	0.10	0.00

TABLE No. 23 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) DHAR	VAGA	KOLH	PZ(ZN 4) Mean	BANS	BHIL	CHHI	UDAI	CWZ ZN 5 Mean	OV'L Mean
1	ADV 9293	205.0	181.8	170.0	185.6	167.5	176.5	140.0	182.8	166.7	174.8
2	OMH 14-16 (CAH1424)	212.0	172.6	147.5	177.4	167.5	165.5	132.0	205.3	167.6	171.8
3	OMH 14-27 (CAH1511)	231.0	157.6	160.0	182.9	157.5	186.5	157.0	215.2	179.0	180.7
4	OMH 14-62 (CAH 142)	198.0	144.7	135.0	159.2	170.0	164.5	144.5	190.5	167.4	163.9
5	RCRMH3 (CAH1526)	206.5	153.1	180.0	179.9	185.0	179.0	132.5	192.8	172.3	175.6
6	RCRMH-4 (CAH1525)	191.0	136.3	160.0	162.4	175.0	176.5	150.0	185.4	171.7	167.7
7	RCRMH-5 (CAH1535	210.5	123.1	140.0	157.9	165.0	158.0	136.5	196.3	163.9	161.3
8	GK3206	192.5	134.7	182.5	169.9	162.5	178.5	165.5	215.9	180.6	176.0
9	REH2014-5	199.0	151.7	200.0	183.6	160.0	162.5	114.5	160.4	149.3	164.0
10	IMH 1619	210.0	149.0	152.5	170.5	170.0	156.0	148.5	179.8	163.6	166.5
11	HQPM 1	204.0	176.1	157.5	179.2	162.5	154.0	119.5	208.0	161.0	168.8
12	HQPM 4	239.5	154.4	160.0	184.6	175.0	171.5	139.5	219.6	176.4	179.9
13	HQPM 5	200.5	148.8	182.5	177.3	150.0	172.0	140.0	221.5	170.9	173.6
14	HQPM 7	211.5	125.3	155.0	163.9	182.5	168.0	134.5	220.3	176.3	171.0
15	HM 11	237.0	149.8	172.5	186.4	175.0	170.0	147.0	214.0	176.5	180.8
16	REH2014-4	214.0	160.3	162.5	178.9	167.5	185.0	167.5	217.4	184.4	182.0
17	OMH 14-30(CAH 1514)	211.5	165.3	157.5	178.1	192.5	163.0	128.0	180.5	166.0	171.2
18	DMH-24	189.5	177.8	147.5	171.6	165.0	155.0	157.0	190.3	166.8	168.9
19	DMRH1302	190.5	147.2	162.5	166.7	165.0	147.5	125.5	208.0	161.5	163.7
20	IMH 1618	215.5	145.9	192.5	184.6	185.0	169.5	145.5	236.4	184.1	184.3
21	IMH 1626	213.5	167.8	180.0	187.1	187.5	190.5	150.0	215.0	185.7	186.3
22	IMH1526	208.0	164.6	170.0	180.9	180.0	182.5	157.0	204.0	180.9	180.9
23	IMH1533	180.5	162.1	157.5	166.7	152.5	155.0	127.5	185.1	155.0	160.0
24	HM 4	186.0	142.8	157.5	162.1	155.0	153.5	142.0	168.5	154.8	157.9
25	CMH 08-292	243.0	143.5	197.5	194.7	187.5	194.5	179.5	243.9	201.4	198.5
26	AQH4	187.0	129.6	147.5	154.7	152.5	152.0	139.5	170.4	153.6	154.1
27	AQH8	175.5	181.1	145.0	167.2	175.0	158.0	156.0	157.8	161.7	164.1
28	AQH9	203.0	136.3	162.5	167.3	167.5	165.0	141.5	176.8	162.7	164.7
29	ADH1601	196.0	160.8	177.5	178.1	185.0	168.5	147.0	171.7	168.1	172.4
30	ADH1602	199.5	156.3	170.0	175.3	182.5	170.5	132.0	168.6	163.4	168.5
31	ADH1603	203.5	140.6	155.0	166.4	172.5	160.5	143.5	176.4	163.2	164.6
32	ADH1604	197.0	125.6	165.0	162.5	177.5	152.5	152.5	181.3	166.0	164.5
	CHECKS										
33	PMH-1(C)	241.5	194.1	167.5	201.0	187.5	203.0	172.0	231.8	198.6	199.6
34	CMH 08-282(C)	169.5	163.1	170.0	167.5	177.5	202.5	159.5	235.6	193.8	182.5
35	CMH 08-287(C)	242.0	182.3	185.0	203.1	170.0	204.0	159.5	210.8	186.1	193.4
36	Seed tech 2324(C)	198.0	169.6	162.5	176.7	180.0	168.5	139.5	229.0	179.3	178.2
37	HM 9(C)	209.0	174.5	162.5	182.0	167.5	160.0	140.0	180.3	162.0	170.5
38	DHM 121(C)	196.5	180.3	177.5	184.8	185.0	173.0	140.0	230.5	182.1	183.3
39	BIO 9544(C)	201.5	142.5	155.0	166.3	162.5	163.0	156.0	172.7	163.6	164.7
	Loc. Mean	**205.6**	**155.7**	**165.2**	**175.5**	**171.9**	**170.2**	**145.1**	**198.7**	**171.5**	**173.2**
	C.D. (5%)	31.30	11.00	30.74	25.22	36.10	19.61	37.85	17.34	18.20	14.78
	C.V. (%)	7.52	3.49	9.19	8.84	10.37	5.69	12.88	4.31	7.58	8.10
	F (Prob)	0.00	0.00	0.02	0.04	0.78	0.00	0.35	0.00	0.00	0.00

S.No.	PEDIGREE	EAR HEIGHT(cm) DHAR	VAGA	KOLH	PZ(ZN 4) Mean	BANS	BHIL	CHHI	UDAI	CWZ ZN 5 Mean	OV'L Mean
1	ADV 9293	97.5	85.5	72.5	85.2	77.5	87.5	64.5	57.7	71.8	77.5
2	OMH 14-16 (CAH1424)	96.5	83.0	57.5	79.0	80.0	78.0	56.0	67.7	70.4	74.1
3	OMH 14-27 (CAH1511)	99.5	82.8	62.5	81.6	82.5	86.0	54.5	68.8	72.9	76.7
4	OMH 14-62 (CAH 142)	95.5	74.3	50.0	73.3	77.5	74.5	58.0	62.8	68.2	70.4
5	RCRMH3 (CAH1526)	100.5	79.5	92.5	90.8	87.5	83.5	46.5	60.3	69.4	78.6
6	RCRMH-4 (CAH1525)	93.0	74.8	50.0	72.6	85.0	79.5	54.5	57.8	69.2	70.6
7	RCRMH-5 (CAH1535	84.0	62.8	47.5	64.8	60.0	64.0	54.5	60.4	59.7	61.9
8	GK3206	96.5	69.8	85.0	83.8	77.5	87.5	78.5	75.3	79.7	81.4
9	REH2014-5	107.0	76.0	120.0	101.0	70.0	86.5	49.5	68.9	68.7	82.5
10	IMH 1619	101.0	81.6	70.0	84.2	70.0	81.5	61.5	57.8	67.7	74.8
11	HQPM 1	89.5	82.6	70.0	80.7	85.0	71.5	53.0	72.7	70.6	74.9
12	HQPM 4	120.5	85.6	65.0	90.4	85.0	85.5	69.5	91.3	82.8	86.1
13	HQPM 5	107.5	72.3	102.5	94.1	65.0	88.5	61.5	88.9	76.0	83.7
14	HQPM 7	99.5	79.6	65.0	81.4	82.5	80.0	54.5	72.8	72.4	76.3
15	HM 11	108.0	73.0	52.5	77.8	75.0	85.0	57.0	91.3	77.1	77.4
16	REH2014-4	96.5	81.4	70.0	82.6	72.5	91.5	68.5	72.7	76.3	79.0
17	OMH 14-30(CAH 1514)	92.5	77.6	62.5	77.5	92.5	71.0	61.0	62.8	71.8	74.3
18	DMH-24	94.5	78.8	75.0	82.8	80.0	79.0	72.5	67.8	74.8	78.2
19	DMRH1302	85.5	66.8	77.5	76.6	85.0	71.5	40.0	80.3	69.2	72.4
20	IMH 1618	97.5	77.3	77.5	84.1	92.5	83.0	47.5	106.4	82.4	83.1
21	IMH 1626	121.5	89.0	90.0	100.2	82.5	100.0	57.5	88.9	82.2	89.9
22	IMH1526	103.0	80.1	67.5	83.5	80.0	91.0	59.5	73.2	75.9	79.2
23	IMH1533	83.5	75.5	65.0	74.7	70.0	76.5	44.0	70.3	65.2	69.2
24	HM 4	95.5	79.1	75.0	83.2	67.5	74.0	60.0	57.8	64.8	72.7
25	CMH 08-292	120.0	99.3	102.5	107.3	82.5	96.5	77.0	85.3	85.3	94.7
26	AQH4	90.5	61.0	55.0	68.8	75.0	71.5	47.0	55.2	62.2	65.0
27	AQH8	94.5	90.6	62.5	82.5	95.0	70.5	66.5	45.2	69.3	75.0
28	AQH9	91.5	69.3	70.0	76.9	75.0	69.5	48.5	45.3	59.6	67.0
29	ADH1601	84.5	78.4	82.5	81.8	90.0	74.0	61.5	52.4	69.5	74.8
30	ADH1602	84.5	85.3	82.5	84.1	80.0	88.5	60.5	68.9	74.5	78.6
31	ADH1603	106.5	89.0	62.5	86.0	85.0	87.0	59.5	77.8	77.3	81.0
32	ADH1604	96.0	70.2	80.0	82.1	75.0	72.0	57.5	61.4	66.5	73.1
	CHECKS										
33	PMH-1(C)	118.0	98.3	67.5	94.6	80.0	107.5	59.5	105.3	88.1	90.9
34	CMH 08-282(C)	112.0	93.8	77.5	94.4	87.5	103.0	69.0	99.2	89.7	91.7
35	CMH 08-287(C)	106.0	98.1	85.0	96.4	77.5	103.0	64.5	98.8	85.9	90.4
36	Seed tech 2324(C)	106.0	94.3	80.0	93.4	77.5	88.0	59.5	97.6	80.7	86.1
37	HM 9(C)	94.0	77.7	57.5	76.4	77.5	71.5	49.5	67.7	66.6	70.8
38	DHM 121(C)	88.0	90.8	72.5	83.8	87.5	79.5	59.5	95.2	80.4	81.9
39	BIO 9544(C)	108.5	80.5	75.0	88.0	77.5	87.0	67.0	57.8	72.3	79.0
	Loc. Mean	**99.1**	**80.6**	**72.7**	**84.2**	**79.6**	**82.7**	**58.7**	**73.0**	**73.5**	**78.1**
	C.D. (5%)	17.46	8.28	27.12	15.87	21.44	13.25	17.11	11.10	13.62	10.04
	C.V. (%)	8.70	5.07	18.43	11.60	13.30	7.92	14.39	7.51	13.23	12.21
	F (Prob)	0.00	0.00	0.00	0.00	0.44	0.00	0.01	0.00	0.00	0.00

TABLE No. 24 **PERFORMANCE OF EXPERIMENTAL HYBRIDS ATDHARWAD VAGARAI KOLHAPUR BANSAWARA BHILODA CHHINDWARA IN TRIAL No TR RAINFED NORMAL SET EARLY & EXTRA EARLY DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE PZ(ZN 4) DHAR	R	VAGA	R	KOLH	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	DMH-1	6448	4	6956	6	5650	6	6352	6	4630	9	3349	9	4400	6	1995	9	4126	9	5239	7
2	DMRH1305	7181	3	6382	12	6462	2	6675	3	3764	13	4241	4	4733	5	2993	4	4246	7	5461	4
3	Pratap QPM Hybrid -1	8280	2	7207	4	7111	1	7533	2	5196	4	3748	8	3800	10	3853	1	4248	6	5890	2
4	DKC7074	10981	1	7129	5	5749	3	7953	1	4950	6	4614	3	5867	1	2873	6	5143	2	6548	1
5	Vivek QPM 9	5627	9	6590	10	4113	12	5443	11	4024	12	2983	11	4333	7	1909	10	3780	11	4612	11
6	Vivek Maize Hybrid 21	5383	11	6529	11	5312	7	5741	8	4237	11	2725	12	3400	13	2945	5	3454	12	4598	12
7	Vivek Maize Hybrid 43	6152	7	7862	1	5099	9	6371	5	4827	8	3910	6	4267	8	2486	7	4334	5	5353	5
8	APQH9	5456	10	6029	13	4964	10	5483	10	4527	10	3277	10	3867	9	2229	8	3890	10	4687	10
	CHECKS																				
9	BIO 605(C)	5759	8	7496	3	4229	11	5828	7	4957	5	3895	7	3667	12	1783	11	4173	8	5000	8
10	PMH-5(C)	1962	12	6736	9	5705	5	4801	12	5572	2	4091	5	4800	3	3703	2	4821	4	4811	9
11	Prakash(C)	784	13	6826	8	5727	4	4446	13	4895	7	1208	13	3800	11	1543	12	3301	13	3873	13
12	Vivek Maize Hybrid 45(C)	6437	5	6942	7	3740	13	5706	9	5282	3	4727	2	4800	4	3286	3	4936	3	5321	6
13	Vivek Maize Hybrid 51(C)	6361	6	7625	2	5267	8	6418	4	5646	1	4796	1	5333	2	1427	13	5258	1	5838	3
	Location Mean	**5909**		**6947**		**5318**		**6058**		**4808**		**3659**		**4390**		**2540**		**4286**		**5172**	
	C.D. (5%)	2375		714		1345		1478		1280		1243		858		1365		1127		1302	
	C.V. (%)	18.26		4.67		11.49		-		12.09		15.43		8.88		**24.41**		-		-	
	F (Prob)	0		0.002		0.004				0.199		0.001		0.002		0.012					
	Plot Size	4.8		4.2		4.5		-		4.8		4.2		6		4.2		-		-	
	AGRONOMY DATA																				
	Sowing Date	15-07		14-10		31-07		-		6-07		5-07		1-07		-		-		-	
	Harvest Date	8-12		1-02		20-08		-		21-10		24-10		5-11		-		-		-	
	Irrigation Nos	-		9		4		-		-		2		-		-		-		-	
	Ferilizer Applied N	-		150		120		-		150		120		-		-		-		-	
	Ferilizer Applied P	-		75		60		-		80		60		-		-		-		-	
	Ferilizer Applied K	-		75		40		-		-		-		-		-		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V.: UDAI 24.4 %

TABLE No. 24 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 605(C) PZ(ZN 4) DHAR	R	VAGA	R	KOLH	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	DMH-1	12		-		33.6		9		-		-		20		11.9		-		4.8	
2	DMRH1305	24.7		-		52.8		14.5		-		8.9		29.1		67.9		1.8		9.2	
3	Pratap QPM Hybrid -1	43.8		-		68.2		29.3		4.8		-		3.6		116.2		1.8		17.8	
4	DKC7074	90.7		-		35.9		36.5		-		18.5		60		61.2		23.3		31	
5	Vivek QPM 9	-		-		-		-		-		-		18.2		7.1		-		-	
6	Vivek Maize Hybrid 21	-		-		25.6		-		-		-		-		65.2		-		-	
7	Vivek Maize Hybrid 43	6.8		4.9		20.6		9.3		-		0.4		16.4		39.5		3.9		7	
8	APQH9	-		-		17.4		-		-		-		5.5		25		-		-	
	CHECKS																				
9	BIO 605(C)	-		-		-		-		-		-		-		-		-		-	
10	PMH-5(C)	-		-		34.9		-		12.4		5		30.9		107.7		15.5		-	
11	Prakash(C)	-		-		35.4		-		-		-		3.6		-		-		-	
12	Vivek Maize Hybrid 45(C)	11.8		-		-		-		6.6		21.3		30.9		84.4		18.3		6.4	
13	Vivek Maize Hybrid 51(C)	10.4		1.7		24.6		10.1		13.9		23.1		45.5		-		26		16.8	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-5(C) PZ(ZN 4) DHAR	R	VAGA	R	KOLH	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	DMH-1	228.7		3.3		-		32.3		-		-		-		-		-		8.9	
2	DMRH1305	266.1		-		13.3		39		-		3.7		-		-		-		13.5	
3	Pratap QPM Hybrid -1	322.1		7		24.6		56.9		-		-		-		4.1		-		22.4	
4	DKC7074	459.8		5.8		0.8		65.7		-		12.8		22.2		-		6.7		36.1	
5	Vivek QPM 9	186.8		-		-		13.4		-		-		-		-		-		-	
6	Vivek Maize Hybrid 21	174.4		-		-		19.6		-		-		-		-		-		-	
7	Vivek Maize Hybrid 43	213.6		16.7		-		32.7		-		-		-		-		-		11.3	
8	APQH9	178.1		-		-		14.2		-		-		-		-		-		-	
	CHECKS																				
9	BIO 605(C)	193.6		11.3		-		21.4		-		-		-		-		-		3.9	
10	PMH-5(C)	-		-		-		-		-		-		-		-		-		-	
11	Prakash(C)	-		1.3		0.4		-		-		-		-		-		-		-	
12	Vivek Maize Hybrid 45(C)	228.1		3.1		-		18.9		-		15.5		-		-		2.4		10.6	
13	Vivek Maize Hybrid 51(C)	224.2		13.2		-		33.7		1.3		17.2		11.1		-		9.1		21.3	

TABLE No. 24 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Prakash(C)																CWZ ZN 5 MEAN	R	OV'L MEAN	R
		DHAR	R	VAGA	R	KOLH	R	PZ(ZN 4) MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R				
1	DMH-1	722.6		1.9		-		42.9		-		177.3		15.8		29.3		25		35.3	
2	DMRH1305	816		-		12.8		50.1		-		251.2		24.6		94		28.6		41	
3	Pratap QPM Hybrid -1	956.2		5.6		24.2		69.4		6.2		210.4		-		149.7		28.7		52.1	
4	DKC7074	1300.8		4.4		0.4		78.9		1.1		282		54.4		86.2		55.8		69.1	
5	Vivek QPM 9	617.8		-		-		22.4		-		147		14		23.7		14.5		19.1	
6	Vivek Maize Hybrid 21	586.7		-		-		29.1		-		125.7		-		90.9		4.6		18.7	
7	Vivek Maize Hybrid 43	684.8		15.2		-		43.3		-		223.8		12.3		61.1		31.3		38.2	
8	APQH9	595.9		-		-		23.3		-		171.3		1.8		44.5		17.9		21	
	CHECKS																				
9	BIO 605(C)	634.7		9.8		-		31.1		1.3		222.5		-		15.5		26.4		29.1	
10	PMH-5(C)	150.2		-		-		8		13.8		238.8		26.3		140		46.1		24.2	
11	Prakash(C)	-		-		-		-		-		-		-		-		-		-	
12	Vivek Maize Hybrid 45(C)	721.2		1.7		-		28.4		7.9		291.4		26.3		113		49.5		37.4	
13	Vivek Maize Hybrid 51(C)	711.4		11.7		-		44.4		15.3		297.1		40.4		-		59.3		50.7	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Maize Hybrid 45(C)																CWZ ZN 5 MEAN	R	OV'L MEAN	R
		DHAR	R	VAGA	R	KOLH	R	PZ(ZN 4) MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R				
1	DMH-1	0.2		0.2		51.1		11.3		-		-		-		-		-		-	
2	DMRH1305	11.6		-		72.8		17		-		-		-		-		-		2.6	
3	Pratap QPM Hybrid -1	28.6		3.8		90.1		32		-		-		-		17.2		-		10.7	
4	DKC7074	70.6		2.7		53.7		39.4		-		-		22.2		-		4.2		23.1	
5	Vivek QPM 9	-		-		10		-		-		-		-		-		-		-	
6	Vivek Maize Hybrid 21	-		-		42		0.6		-		-		-		-		-		-	
7	Vivek Maize Hybrid 43	-		13.3		36.3		11.6		-		-		-		-		-		0.6	
8	APQH9	-		-		32.7		-		-		-		-		-		-		-	
	CHECKS																				
9	BIO 605(C)	-		8		13.1		2.1		-		-		-		-		-		-	
10	PMH-5(C)	-		-		52.5		-		5.5		-		-		12.7		-		-	
11	Prakash(C)	-		-		53.1		-		-		-		-		-		-		-	
12	Vivek Maize Hybrid 45(C)	-		-		-		-		-		-		-		-		-		-	
13	Vivek Maize Hybrid 51(C)	-		9.8		40.8		12.5		6.9		1.5		11.1		-		6.5		9.7	

TABLE No. 24 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Maize Hybrid 51(C) PZ(ZN 4) DHAR	R	VAGA	R	KOLH	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	DMH-1	1.4		-		7.3		-		-		-		-		39.8		-		-	
2	DMRH1305	12.9		-		22.7		4		-		-		-		109.7		-		-	
3	Pratap QPM Hybrid -1	30.2		-		35		17.4		-		-		-		169.9		-		0.9	
4	DKC7074	72.6		-		9.1		23.9		-		-		10		101.3		-		12.2	
5	Vivek QPM 9	-		-		-		-		-		-		-		33.7		-		-	
6	Vivek Maize Hybrid 21	-		-		0.9		-		-		-		-		106.3		-		-	
7	Vivek Maize Hybrid 43	-		3.1		-		-		-		-		-		74.2		-		-	
8	APQH9	-		-		-		-		-		-		-		56.2		-		-	
	CHECKS																				
9	BIO 605(C)	-		-		-		-		-		-		-		24.9		-		-	
10	PMH-5(C)	-		-		8.3		-		-		-		-		159.4		-		-	
11	Prakash(C)	-		-		8.7		-		-		-		-		8.1		-		-	
12	Vivek Maize Hybrid 45(C)	1.2		-		-		-		-		-		-		130.2		-		-	
13	Vivek Maize Hybrid 51(C)	-		-		-		-		-		-		-		-		-		-	

TABLE No. 24 (Contd.)

		GRAIN SHELLING %							CWZ	
					PZ(ZN 4)				ZN 5	OV'L
S.No.	PEDIGREE	DHAR	VAGA	KOLH	Mean	BANS	BHIL	UDAI	Mean	Mean
1	DMH-1	84.9	77.8	78.3	80.3	74.0	79.0	79.4	77.5	78.9
2	DMRH1305	84.2	77.5	83.3	81.7	73.4	82.8	70.2	75.5	78.6
3	Pratap QPM Hybrid -1	84.6	77.5	80.9	81.0	77.0	79.3	80.5	78.9	80.0
4	DKC7074	85.2	76.7	82.7	81.5	73.4	83.1	82.2	79.6	80.6
5	Vivek QPM 9	86.9	78.4	81.8	82.4	75.6	84.2	86.6	82.1	82.3
6	Vivek Maize Hybrid 21	86.4	79.6	86.3	84.1	74.3	82.8	85.0	80.7	82.4
7	Vivek Maize Hybrid 43	84.6	79.5	86.1	83.4	74.6	84.6	82.1	80.5	81.9
8	APQH9	84.7	78.2	75.0	79.3	72.3	79.8	84.0	78.7	79.0
	CHECKS									
9	BIO 605(C)	85.3	78.3	78.0	80.5	76.8	81.2	76.9	78.3	79.4
10	PMH-5(C)	78.0	77.4	85.5	80.3	76.7	85.7	81.3	81.2	80.8
11	Prakash(C)	78.9	79.5	86.4	81.6	75.6	84.5	85.6	81.9	81.7
12	Vivek Maize Hybrid 45(C)	85.3	77.1	81.3	81.2	76.4	84.7	80.1	80.4	80.8
13	Vivek Maize Hybrid 51(C)	84.7	78.0	84.4	82.3	75.6	77.2	59.7	70.8	76.6
	Loc. Mean	**84.1**	**78.1**	**82.3**	**81.5**	**75.1**	**82.2**	**79.5**	**78.9**	**80.2**
	C.D. (5%)	2.07	1.94	-	4.69	0.00	8.80	13.26	7.03	4.21
	C.V. (%)	1.13	1.14	-	3.42	0.00	4.91	7.65	5.29	4.54
	F (Prob)	0.00	0.09	0.00	0.76	0.00	0.59	0.04	0.15	0.24

		MOISTURE % AT HARVEST						CWZ	
					PZ(ZN 4)			ZN 5	OV'L
S.No.	PEDIGREE	DHAR	VAGA	KOLH	Mean	BANS	BHIL	Mean	Mean
1	DMH-1	14.5	16.0	8.9	13.1	16.3	15.4	15.9	14.2
2	DMRH1305	13.9	16.0	9.1	13.0	16.3	16.4	16.4	14.3
3	Pratap QPM Hybrid -1	12.8	17.0	8.8	12.8	17.2	16.6	16.9	14.5
4	DKC7074	13.8	17.6	9.1	13.5	15.6	20.4	18.0	15.3
5	Vivek QPM 9	14.4	16.3	9.8	13.5	16.8	18.7	17.8	15.2
6	Vivek Maize Hybrid 21	14.1	16.0	9.9	13.3	16.3	15.5	15.9	14.4
7	Vivek Maize Hybrid 43	14.1	16.3	9.8	13.4	16.2	16.1	16.2	14.5
8	APQH9	14.2	16.8	9.8	13.6	15.4	15.9	15.7	14.4
	CHECKS								
9	BIO 605(C)	15.3	17.4	9.8	14.2	16.4	18.9	17.7	15.6
10	PMH-5(C)	14.4	16.0	9.1	13.2	17.2	22.1	19.6	15.8
11	Prakash(C)	15.4	16.2	8.8	13.4	16.8	18.4	17.6	15.1
12	Vivek Maize Hybrid 45(C)	14.5	16.3	9.7	13.5	16.3	15.2	15.7	14.4
13	Vivek Maize Hybrid 51(C)	13.8	16.4	9.9	13.4	17.2	15.9	16.5	14.6
	Loc. Mean	**14.2**	**16.5**	**9.4**	**13.4**	**16.5**	**17.3**	**16.9**	**14.8**
	C.D. (5%)	2.71	1.54	-	0.95	-	1.65	3.28	1.36
	C.V. (%)	8.75	4.30	-	4.21	-	4.36	8.90	7.24
	F (Prob)	0.82	0.41	0.00	0.49	0.00	0.00	0.37	0.31

TABLE No. 24 (Contd.)

		STAND AT HARVEST ('000/ha)								CWZ	
					PZ(ZN 4)					ZN 5	OV'L
S.No.	PEDIGREE	DHAR	VAGA	KOLH	Mean	BANS	BHIL	CHHI	UDAI	Mean	Mean
1	DMH-1	50.0	52.4	42.2	48.2	62.5	60.7	60.0	50.0	58.3	54.0
2	DMRH1305	53.1	50.0	35.6	46.2	60.4	60.7	61.7	65.5	62.1	55.3
3	Pratap QPM Hybrid -1	51.0	48.8	43.3	47.7	60.4	59.5	65.0	45.2	57.5	53.3
4	DKC7074	62.5	52.4	33.3	49.4	56.3	71.4	63.3	57.1	62.0	56.6
5	Vivek QPM 9	55.2	52.4	43.3	50.3	58.3	71.4	62.5	54.8	61.8	56.8
6	Vivek Maize Hybrid 21	53.1	54.8	42.2	50.0	59.4	48.8	59.2	47.6	53.7	52.2
7	Vivek Maize Hybrid 43	49.0	48.8	44.4	47.4	56.3	56.0	60.8	52.4	56.4	52.5
8	APQH9	55.2	50.0	40.0	48.4	57.3	60.7	60.0	56.0	58.5	54.2
	CHECKS										
9	BIO 605(C)	39.6	53.6	38.9	44.0	52.1	46.4	60.0	46.4	51.2	48.1
10	PMH-5(C)	47.9	53.6	42.2	47.9	60.4	66.7	60.8	61.9	62.5	56.2
11	Prakash(C)	28.1	53.6	40.0	40.6	57.3	61.9	59.2	46.4	56.2	49.5
12	Vivek Maize Hybrid 45(C)	52.1	52.4	42.2	48.9	62.5	65.5	62.5	52.4	60.7	55.6
13	Vivek Maize Hybrid 51(C)	63.5	51.2	37.8	50.8	63.5	65.5	59.2	56.0	61.0	56.7
	Loc. Mean	**50.8**	**51.8**	**40.4**	**47.7**	**59.0**	**61.2**	**61.1**	**53.2**	**58.6**	**53.9**
	C.D. (5%)	14.23	6.17	6.19	10.29	10.36	12.31	9.56	13.17	6.33	5.37
	C.V. (%)	12.86	5.47	7.03	12.81	8.06	9.23	7.18	11.36	7.53	9.35
	F (Prob)	0.01	0.56	0.05	0.80	0.58	0.02	0.96	0.11	0.01	0.03

		DAYS TO 50% POLLEN SHED								CWZ	
					PZ(ZN 4)					ZN 5	OV'L
S.No.	PEDIGREE	DHAR	VAGA	KOLH	Mean	BANS	BHIL	CHHI	UDAI	Mean	Mean
1	DMH-1	53.5	46.0	51.0	50.2	36.0	45.0	58.5	47.5	46.8	48.2
2	DMRH1305	53.5	45.5	50.0	49.7	36.0	49.0	56.5	47.5	47.3	48.3
3	Pratap QPM Hybrid -1	59.5	50.5	55.0	55.0	36.5	52.0	59.0	51.0	49.6	51.9
4	DKC7074	59.0	47.5	55.0	53.8	36.0	50.0	60.0	47.5	48.4	50.7
5	Vivek QPM 9	53.0	44.5	49.0	48.8	38.0	44.0	55.5	39.5	44.3	46.2
6	Vivek Maize Hybrid 21	52.5	43.5	49.0	48.3	35.0	46.0	55.5	41.5	44.5	46.1
7	Vivek Maize Hybrid 43	54.0	45.0	49.0	49.3	35.5	47.5	54.5	45.5	45.8	47.3
8	APQH9	53.5	45.0	49.0	49.2	37.5	41.5	53.5	39.0	42.9	45.6
	CHECKS										
9	BIO 605(C)	55.5	47.5	55.5	52.8	36.5	49.5	59.5	51.0	49.1	50.7
10	PMH-5(C)	55.0	47.0	54.0	52.0	37.0	45.0	56.0	43.0	45.3	48.1
11	Prakash(C)	55.0	48.5	54.0	52.5	36.0	49.5	53.5	43.5	45.6	48.6
12	Vivek Maize Hybrid 45(C)	54.0	45.5	51.0	50.2	37.0	48.0	57.0	43.5	46.4	48.0
13	Vivek Maize Hybrid 51(C)	53.5	45.5	51.0	50.0	36.0	46.0	57.0	42.5	45.4	47.4
	Loc. Mean	**54.7**	**46.3**	**51.7**	**50.9**	**36.4**	**47.2**	**56.6**	**44.8**	**46.2**	**48.2**
	C.D. (5%)	2.45	1.18	0.99	1.59	2.52	4.82	1.85	3.32	3.06	1.88
	C.V. (%)	2.05	1.17	0.88	1.86	3.17	4.69	1.50	3.40	4.61	3.66
	F (Prob)	0.00	0.00	0.00	0.00	0.49	0.02	0.00	0.00	0.00	0.00

TABLE No. 24 (Contd.)

		DAYS TO 50% SILKING								CWZ	
					PZ(ZN 4)					ZN 5	OV'L
S.No.	PEDIGREE	DHAR	VAGA	KOLH	Mean	BANS	BHIL	CHHI	UDAI	Mean	Mean
1	DMH-1	53.5	50.5	53.0	52.3	39.0	50.5	58.5	51.0	49.8	50.9
2	DMRH1305	54.5	49.5	52.0	52.0	39.0	53.5	58.5	51.5	50.6	51.2
3	Pratap QPM Hybrid -1	60.5	53.5	57.0	57.0	39.5	57.0	59.0	54.0	52.4	54.4
4	DKC7074	59.5	51.0	57.0	55.8	39.0	54.5	61.5	51.5	51.6	53.4
5	Vivek QPM 9	54.5	48.0	50.0	50.8	41.0	49.0	55.5	44.0	47.4	48.9
6	Vivek Maize Hybrid 21	52.5	46.5	50.0	49.7	38.0	51.0	55.5	46.0	47.6	48.5
7	Vivek Maize Hybrid 43	54.0	49.0	50.0	51.0	38.5	52.5	56.5	50.0	49.4	50.1
8	APQH9	57.0	48.0	51.0	52.0	40.5	47.0	54.0	43.5	46.3	48.7
	CHECKS										
9	BIO 605(C)	58.0	50.5	57.5	55.3	39.5	54.0	59.5	54.0	51.8	53.3
10	PMH-5(C)	56.5	51.0	56.0	54.5	40.0	50.0	58.0	47.5	48.9	51.3
11	Prakash(C)	57.5	52.5	56.0	55.3	39.0	54.5	53.5	49.0	49.0	51.7
12	Vivek Maize Hybrid 45(C)	54.5	48.5	53.0	52.0	40.0	52.5	57.0	47.5	49.3	50.4
13	Vivek Maize Hybrid 51(C)	54.5	49.5	53.0	52.3	39.0	50.0	58.0	46.5	48.4	50.1
	Loc. Mean	**55.9**	**49.8**	**53.5**	**53.1**	**39.4**	**52.0**	**57.3**	**48.9**	**49.4**	**51.0**
	C.D. (5%)	2.47	1.71	0.43	1.97	2.52	4.92	1.93	2.89	2.86	1.90
	C.V. (%)	2.03	1.57	0.37	2.20	2.93	4.34	1.54	2.71	4.04	3.50
	F (Prob)	0.00	0.00	0.00	0.00	0.49	0.04	0.00	0.00	0.00	0.00

		DAYS TO 75% DRY HUSK							CWZ	
					PZ(ZN 4)				ZN 5	OV'L
S.No.	PEDIGREE	DHAR	VAGA	KOLH	Mean	BANS	BHIL	CHHI	Mean	Mean
1	DMH-1	101.0	89.5	94.0	94.8	70.5	73.5	94.5	79.5	87.2
2	DMRH1305	99.5	88.5	94.0	94.0	71.0	73.5	98.5	81.0	87.5
3	Pratap QPM Hybrid -1	105.5	92.0	98.0	98.5	70.5	76.0	103.5	83.3	90.9
4	DKC7074	101.5	89.5	94.0	95.0	71.0	77.0	98.0	82.0	88.5
5	Vivek QPM 9	99.5	86.5	92.0	92.7	72.0	73.5	90.0	78.5	85.6
6	Vivek Maize Hybrid 21	100.5	85.5	90.0	92.0	70.5	76.5	91.0	79.3	85.7
7	Vivek Maize Hybrid 43	100.0	88.0	90.0	92.7	73.0	77.5	96.0	82.2	87.4
8	APQH9	101.0	87.0	91.0	93.0	72.5	72.5	92.5	79.2	86.1
	CHECKS									
9	BIO 605(C)	102.5	89.5	92.5	94.8	73.0	79.0	94.0	82.0	88.4
10	PMH-5(C)	101.5	90.0	92.0	94.5	72.0	72.5	93.0	79.2	86.8
11	Prakash(C)	101.0	91.5	91.0	94.5	71.0	75.0	96.0	80.7	87.6
12	Vivek Maize Hybrid 45(C)	99.5	87.5	91.0	92.7	71.5	75.0	100.0	82.2	87.4
13	Vivek Maize Hybrid 51(C)	98.5	88.0	91.0	92.5	70.5	77.5	96.0	81.3	86.9
	Loc. Mean	**100.9**	**88.7**	**92.3**	**94.0**	**71.5**	**75.3**	**95.6**	**80.8**	**87.4**
	C.D. (5%)	2.56	2.05	0.92	1.93	3.12	4.63	2.19	4.21	2.27
	C.V. (%)	1.17	1.06	0.46	1.22	2.00	2.82	1.05	3.09	2.25
	F (Prob)	0.01	0.00	0.00	0.00	0.59	0.12	0.00	0.39	0.00

TABLE No. 24 (Contd.)

		PLANT HEIGHT(cm)								CWZ	
					PZ(ZN 4)					ZN 5	OV'L
S.No.	PEDIGREE	DHAR	VAGA	KOLH	Mean	BANS	BHIL	CHHI	UDAI	Mean	Mean
1	DMH-1	185.5	170.5	177.5	177.8	172.5	144.5	134.0	186.2	159.3	167.2
2	DMRH1305	175.0	112.1	120.0	135.7	162.5	119.0	107.0	149.3	134.5	135.0
3	Pratap QPM Hybrid -1	199.0	173.6	175.0	182.5	160.0	149.5	135.5	213.9	164.7	172.3
4	DKC7074	195.0	143.3	150.0	162.8	140.0	132.5	124.5	186.3	145.8	153.1
5	Vivek QPM 9	203.0	174.3	170.0	182.4	170.0	149.5	131.5	192.7	160.9	170.1
6	Vivek Maize Hybrid 21	180.5	138.6	160.0	159.7	177.5	131.0	110.5	189.2	152.1	155.3
7	Vivek Maize Hybrid 43	165.0	154.3	112.5	143.9	130.0	112.5	92.0	151.3	121.4	131.1
8	APQH9	168.0	173.5	155.0	165.5	147.5	156.5	129.5	191.4	156.2	160.2
	CHECKS										
9	BIO 605(C)	212.0	196.6	172.5	193.7	140.0	167.5	139.5	172.2	154.8	171.5
10	PMH-5(C)	196.0	183.4	165.0	181.5	185.0	153.0	144.0	193.9	169.0	174.3
11	Prakash(C)	156.0	141.1	107.5	134.9	145.0	127.0	122.5	149.7	136.1	135.5
12	Vivek Maize Hybrid 45(C)	178.0	153.3	140.0	157.1	150.0	132.0	115.5	182.2	144.9	150.1
13	Vivek Maize Hybrid 51(C)	193.5	157.1	145.0	165.2	165.0	147.0	124.5	197.9	158.6	161.4
	Loc. Mean	**185.1**	**159.4**	**150.0**	**164.8**	**157.3**	**140.1**	**123.9**	**181.2**	**150.6**	**156.7**
	C.D. (5%)	41.03	2.42	20.38	20.71	30.14	30.12	16.27	16.82	16.64	13.00
	C.V. (%)	10.17	0.70	6.24	7.46	8.79	9.87	6.03	4.26	7.70	7.78
	F (Prob)	0.24	0.00	0.00	0.00	0.04	0.05	0.00	0.00	0.00	0.00

		EAR HEIGHT(cm)								CWZ	
					PZ(ZN 4)					ZN 5	OV'L
S.No.	PEDIGREE	DHAR	VAGA	KOLH	Mean	BANS	BHIL	CHHI	UDAI	Mean	Mean
1	DMH-1	85.0	99.0	85.0	89.7	70.0	71.5	63.5	77.7	73.1	81.4
2	DMRH1305	81.5	78.3	47.5	69.1	67.5	57.0	35.5	50.2	58.2	63.7
3	Pratap QPM Hybrid -1	85.0	84.4	80.0	83.1	70.0	59.0	41.5	47.7	58.9	71.0
4	DKC7074	86.0	80.0	62.5	76.2	72.5	67.5	51.0	74.8	71.6	73.9
5	Vivek QPM 9	91.0	89.3	72.5	84.3	77.5	68.5	51.5	63.7	69.9	77.1
6	Vivek Maize Hybrid 21	81.5	59.6	50.0	63.7	70.0	50.0	43.0	52.2	57.4	60.5
7	Vivek Maize Hybrid 43	63.5	71.9	50.0	61.8	65.0	45.0	32.0	49.8	53.3	57.5
8	APQH9	76.5	88.9	65.0	76.8	57.5	79.0	56.0	69.3	68.6	72.7
	CHECKS										
9	BIO 605(C)	97.5	111.4	82.5	97.1	62.5	84.5	59.5	67.7	71.6	84.4
10	PMH-5(C)	98.5	99.3	67.5	88.4	77.5	75.0	54.0	70.2	74.2	81.3
11	Prakash(C)	66.0	80.4	40.0	62.1	57.5	63.5	58.0	54.8	58.6	60.4
12	Vivek Maize Hybrid 45(C)	75.5	92.3	65.0	77.6	55.5	67.0	43.0	70.2	64.2	70.9
13	Vivek Maize Hybrid 51(C)	99.0	104.0	60.0	87.7	70.0	70.0	44.5	76.7	72.2	79.9
	Loc. Mean	**83.6**	**87.6**	**63.7**	**78.3**	**67.2**	**66.0**	**48.7**	**63.4**	**65.5**	**71.9**
	C.D. (5%)	29.16	6.54	21.47	13.71	20.09	12.37	21.38	12.34	13.92	9.51
	C.V. (%)	16.01	3.43	15.48	10.40	13.73	8.61	20.15	8.93	12.61	11.45
	F (Prob)	0.27	0.00	0.01	0.00	0.37	0.00	0.14	0.00	0.04	0.00

TABLE No. 25 **PERFORMANCE OF EXPERIMENTAL HYBRIDS AT DHARWAD, VAGARAI, KOLHAPUR, BANSAWARA, BHILODA, CHHINDWARA, UDAIPUR IN TRIAL No TR RAINFED SET EARLY & EXTRA EARLY DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																		CWZ ZN 5		OV'L	
		PZ(ZN 4)																					
		DHAR	R	VAGA	R	KARI	R	KOLH	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	MEAN	R	MEAN	R
1	DMH-1	5529	10	3288	8	548	12	2679	11	3832	11	4284	7	4866	11	4600	2	2795	8	4136	9	4006	11
2	DMRH1305	6360	8	3472	6	2449	4	3899	6	4577	8	4245	8	5333	9	4067	4	4426	2	4518	4	4543	5
3	Pratap QPM Hybrid -1	8490	2	3302	7	398	13	3432	9	5075	3	4986	5	5799	5	3467	10	4536	1	4697	3	4859	2
4	DKC7074	9504	1	4215	3	2920	2	4834	1	6184	1	5874	2	8738	1	3933	5	2443	9	5247	2	5649	1
5	Vivek QPM 9	6558	6	4435	2	2433	5	3656	8	4883	5	3719	13	6226	4	3667	8	1309	13	3730	10	4224	8
6	Vivek Maize Hybrid 21	6590	5	3236	9	783	9	4727	2	4851	6	3777	12	5089	10	2133	12	2933	7	3483	12	4069	10
7	Vivek Maize Hybrid 43	6737	4	3812	4	1383	8	4653	3	5067	4	3973	9	5727	7	3933	6	2976	6	4152	7	4544	4
8	APQH9	4731	11	2914	13	2500	3	4597	4	4080	9	5303	4	6306	3	3600	9	1957	10	4292	6	4201	9
	CHECKS																						
9	BIO 605(C)	6027	9	3175	10	1393	7	2673	12	3958	10	3851	11	4344	12	3000	11	3348	4	3636	11	3774	12
10	PMH-5(C)	1745	12	3084	11	691	11	3823	7	2884	12	6260	1	6811	2	4800	1	3963	3	5458	1	4355	7
11	Prakash(C)	659	13	3011	12	733	10	2465	13	2045	13	3963	10	2905	13	1667	13	1536	11	2518	13	2315	13
12	Vivek Maize Hybrid 45(C)	8066	3	4763	1	3438	1	3185	10	5338	2	4681	6	5792	6	3933	7	3341	5	4437	5	4823	3
13	Vivek Maize Hybrid 51(C)	6508	7	3679	5	2003	6	4112	5	4766	7	5578	3	5457	8	4133	3	1421	12	4147	8	4413	6
	Location Mean	**5962**		**3568**		**1667**		**3749**		**4426**		**4653**		**5646**		**3610**		**2845**		**4189**		**4290**	
	C.D. (5%)	1952		694		3043		1078		1241		1071		1519		818		878		1071		1144	
	C.V. (%)	14.88		8.84		**82.93**		13.06		**-**		10.45		12.22		10.29		14.02		**-**		-	
	F (Prob)	0		0.001		0.42		0.004				0.001		0.002		0		0					
	Plot Size	4.8		4.2		4.5		4.5		-		4.8		4.2		6		4.2		-		-	
	AGRONOMY DATA																						
	Sowing Date	15-07		14-10		5-07		28-07		-		6-07		5-07		1-07		-		-		-	
	Harvest Date	8-12		1-02		24-10		11-11		-		21-10		24-10		5-11		-		-		-	
	Irrigation Nos	-		-		-		-		-		-		-		-		-		-		-	
	Ferilizer Applied N	-		150		200		120		-		150		120		-		-		-		-	
	Ferilizer Applied P	-		75		60		60		-		80		60		-		-		-		-	
	Ferilizer Applied K	-		75		50		40		-		-		-		-		-		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V. : KARI 82.9 %

TABLE No. 25 (Contd.)

		GRAIN YIELD % SUPERIORITY OVER THE BIO 605(C)																		CWZ			
Sl										PZ(ZN 4)										ZN 5		OV'L	
No	PEDIGREE	DHAR	R	VAGA	R	KARI	R	KOLH	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	MEAN	R	MEAN	R
1	DMH-1	-		3.5		-		0.2		-		11.2		12		53.3		-		13.8		6.1	
2	DMRH1305	5.5		9.3		75.8		45.9		15.6		10.2		22.8		35.6		32.2		24.3		20.4	
3	Pratap QPM Hybrid -1	40.9		4		-		28.4		28.2		29.5		33.5		15.6		35.5		29.2		28.7	
4	DKC7074	57.7		32.7		109.6		80.9		56.2		52.5		101.2		31.1		-		44.3		49.7	
5	Vivek QPM 9	8.8		39.7		74.6		36.8		23.4		-		43.3		22.2		-		2.6		11.9	
6	Vivek Maize Hybrid 21	9.3		1.9		-		76.9		22.5		-		17.2		-		-		-		7.8	
7	Vivek Maize Hybrid 43	11.8		20		-		74.1		28		3.2		31.8		31.1		-		14.2		20.4	
8	APQH9	-		-		79.4		72		3.1		37.7		45.1		20		-		18		11.3	
	CHECKS																						
9	BIO 605(C)	-		-		-		-		-		-		-		-		-		-		-	
10	PMH-5(C)	-		-		-		43		-		62.5		56.8		60		18.4		50.1		15.4	
11	Prakash(C)	-		-		-		-		-		2.9		-		-		-		-		-	
12	Vivek Maize Hybrid 45(C)	33.8		50		146.8		19.2		34.9		21.5		33.3		31.1		-		22		27.8	
13	Vivek Maize Hybrid 51(C)	8		15.9		43.8		53.8		20.4		44.8		25.6		37.8		-		14.1		16.9	

		GRAIN YIELD % SUPERIORITY OVER THE PMH-5(C)																		CWZ			
Sl										PZ(ZN 4)										ZN 5		OV'L	
No	PEDIGREE	DHAR	R	VAGA	R	KARI	R	KOLH	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	MEAN	R	MEAN	R
1	DMH-1	216.9		6.6		-		-		32.9		-		-		-		-		-		-	
2	DMRH1305	264.5		12.6		254.7		2		58.7		-		-		-		11.7		-		4.3	
3	Pratap QPM Hybrid -1	386.6		7.1		-		-		76		-		-		-		14.5		-		11.6	
4	DKC7074	444.7		36.7		322.9		26.4		114.4		-		28.3		-		-		-		29.7	
5	Vivek QPM 9	275.9		43.8		252.3		-		69.3		-		-		-		-		-		-	
6	Vivek Maize Hybrid 21	277.7		4.9		13.4		23.6		68.2		-		-		-		-		-		-	
7	Vivek Maize Hybrid 43	286.1		23.6		100.3		21.7		75.7		-		-		-		-		-		4.3	
8	APQH9	171.1		-		262		20.2		41.5		-		-		-		-		-		-	
	CHECKS																						
9	BIO 605(C)	245.5		3		101.8		-		37.3		-		-		-		-		-		-	
10	PMH-5(C)	-		-		-		-		-		-		-		-		-		-		-	
11	Prakash(C)	-		-		6.2		-		-		-		-		-		-		-		-	
12	Vivek Maize Hybrid 45(C)	362.3		54.5		397.8		-		85.1		-		-		-		-		-		10.7	
13	Vivek Maize Hybrid 51(C)	273		19.3		190		7.5		65.3		-		-		-		-		-		1.3	

TABLE No. 25 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Prakash(C) PZ(ZN 4) DHAR	R	VAGA	R	KARI	R	KOLH	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	DMH-1	739.4		9.2		-		8.7		87.4		8.1		67.5		176		82		64.3		73	
2	DMRH1305	865.6		15.3		234		58.2		123.8		7.1		83.6		144		188.1		79.4		96.2	
3	Pratap QPM Hybrid -1	1188.9		9.7		-		39.2		148.2		25.8		99.6		108		195.3		86.6		109.9	
4	DKC7074	1342.9		40		298.2		96.1		202.4		48.2		200.8		136		59.1		108.4		144	
5	Vivek QPM 9	895.6		47.3		231.7		48.3		138.8		-		114.4		120		-		48.2		82.5	
6	Vivek Maize Hybrid 21	900.4		7.5		6.8		91.8		137.2		-		75.2		28		91		38.3		75.8	
7	Vivek Maize Hybrid 43	922.8		26.6		88.6		88.8		147.8		0.2		97.2		136		93.8		64.9		96.3	
8	APQH9	618.2		-		240.9		86.5		99.5		33.8		117.1		116		27.4		70.5		81.5	
	CHECKS																						
9	BIO 605(C)	815		5.5		90		8.4		93.6		-		49.6		80		117.9		44.4		63	
10	PMH-5(C)	164.9		2.4		-		55.1		41		57.9		134.5		188		158		116.8		88.1	
11	Prakash(C)	-		-		-		-		-		-		-		-		-		-		-	
12	Vivek Maize Hybrid 45(C)	1124.6		58.2		368.8		29.2		161		18.1		99.4		136		117.5		76.2		108.3	
13	Vivek Maize Hybrid 51(C)	888		22.2		173.1		66.8		133.1		40.7		87.9		148		-		64.7		90.6	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Maize Hybrid 45(C) PZ(ZN 4) DHAR	R	VAGA	R	KARI	R	KOLH	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	DMH-1	-		-		-		-		-		-		-		16.9		-		-		-	
2	DMRH1305	-		-		-		22.4		-		-		-		3.4		32.5		1.8		-	
3	Pratap QPM Hybrid -1	5.3		-		-		7.8		-		6.5		0.1		-		35.8		5.9		0.7	
4	DKC7074	17.8		-		-		51.8		15.8		25.5		50.9		-		-		18.3		17.1	
5	Vivek QPM 9	-		-		-		14.8		-		-		7.5		-		-		-		-	
6	Vivek Maize Hybrid 21	-		-		-		48.4		-		-		-		-		-		-		-	
7	Vivek Maize Hybrid 43	-		-		-		46.1		-		-		-		-		-		-		-	
8	APQH9	-		-		-		44.3		-		13.3		8.9		-		-		-		-	
	CHECKS																						
9	BIO 605(C)	-		-		-		-		-		-		-		-		0.2		-		-	
10	PMH-5(C)	-		-		-		20		-		33.7		17.6		22		18.6		23		-	
11	Prakash(C)	-		-		-		-		-		-		-		-		-		-		-	
12	Vivek Maize Hybrid 45(C)	-		-		-		-		-		-		-		-		-		-		-	
13	Vivek Maize Hybrid 51(C)	-		-		-		29.1		-		19.2		-		5.1		-		-		-	

TABLE No. 25 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Maize Hybrid 51(C)																CWZ ZN 5		OV'L	
		PZ(ZN 4)																			
		DHAR	R	VAGA	R	KARI	R	KOLH	R	MEAN	R	BANS	R	BHIL	R	CHHI	R	UDAI	R	MEAN	R	MEAN	R
1	DMH-1	-		-		-		-		-		-		-		11.3		96.6		-		-	
2	DMRH1305	-		-		22.3		-		-		-		-		-		211.4		8.9		3	
3	Pratap QPM Hybrid -1	30.5		-		-		-		6.5		-		6.3		-		219.1		13.2		10.1	
4	DKC7074	46		14.6		45.8		17.6		29.7		5.3		60.1		-		71.9		26.5		28	
5	Vivek QPM 9	0.8		20.5		21.5		-		2.4		-		14.1		-		-		-		-	
6	Vivek Maize Hybrid 21	1.3		-		-		15		1.8		-		-		-		106.3		-		-	
7	Vivek Maize Hybrid 43	3.5		3.6		-		13.2		6.3		-		4.9		-		109.4		0.1		3	
8	APQH9	-		-		24.8		11.8		-		-		15.6		-		37.7		3.5		-	
	CHECKS																						
9	BIO 605(C)	-		-		-		-		-		-		-		-		135.5		-		-	
10	PMH-5(C)	-		-		-		-		-		12.2		24.8		16.1		178.8		31.6		-	
11	Prakash(C)	-		-		-		-		-		-		-		-		8.1		-		-	
12	Vivek Maize Hybrid 45(C)	23.9		29.5		71.6		-		12		-		6.1		-		135		7		9.3	
13	Vivek Maize Hybrid 51(C)	-		-		-		-		-		-		-		-		-		-		-	

TABLE No. 25 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % DHAR	VAGA	KARI	KOLH	PZ(ZN 4) Mean	BANS	BHIL	UDAI	CWZ ZN 5 Mean	OV'L Mean
1	DMH-1	82.4	78.7	71.1	72.4	76.2	73.6	79.3	80.7	77.9	76.9
2	DMRH1305	84.5	77.6	78.9	78.7	79.9	72.6	85.6	83.2	80.5	80.1
3	Pratap QPM Hybrid -1	82.8	77.7	73.6	75.0	77.3	75.6	84.3	77.2	79.0	78.0
4	DKC7074	85.0	77.9	77.7	76.3	79.2	77.6	81.8	76.4	78.6	78.9
5	Vivek QPM 9	86.9	77.0	82.1	78.3	81.1	73.6	85.2	81.6	80.1	80.7
6	Vivek Maize Hybrid 21	86.3	76.5	80.3	71.0	78.5	72.4	87.6	84.4	81.5	79.8
7	Vivek Maize Hybrid 43	85.1	78.4	80.0	75.8	79.8	74.0	85.9	82.8	80.9	80.3
8	APQH9	84.9	77.1	81.4	77.5	80.2	74.3	86.0	79.8	80.0	80.1
	CHECKS										
9	BIO 605(C)	86.0	79.0	76.3	76.6	79.5	74.2	81.4	80.6	78.7	79.1
10	PMH-5(C)	73.6	77.0	70.6	78.6	74.9	75.6	85.7	82.0	81.1	77.6
11	Prakash(C)	78.9	77.3	-	81.0	79.1	72.1	84.6	86.3	81.0	80.0
12	Vivek Maize Hybrid 45(C)	85.0	78.1	81.3	78.3	80.7	73.6	87.4	80.2	80.4	80.5
13	Vivek Maize Hybrid 51(C)	84.5	76.5	77.8	80.8	79.9	71.3	83.0	81.5	78.6	79.3
	Loc. Mean	**83.5**	**77.6**	**77.6**	**76.9**	**78.9**	**73.9**	**84.4**	**81.3**	**79.9**	**79.3**
	C.D. (5%)	2.53	2.13	4.99	0.00	4.04	-	4.09	4.79	4.13	2.86
	C.V. (%)	1.39	1.26	2.81	0.00	3.57	-	2.22	2.71	3.07	3.38
	F (Prob)	0.00	0.32	0.00	0.00	0.12	0.00	0.02	0.03	0.74	0.19

S.No.	PEDIGREE	MOISTURE % AT HARVEST DHAR	VAGA	KARI	KOLH	PZ(ZN 4) Mean	BANS	BHIL	CWZ ZN 5 Mean	OV'L Mean
1	DMH-1	10.1	16.3	26.2	15.4	17.0	17.4	15.9	16.7	16.9
2	DMRH1305	13.7	16.0	21.0	16.9	16.9	17.3	15.3	16.3	16.7
3	Pratap QPM Hybrid -1	12.6	16.4	27.7	19.8	19.1	16.3	17.1	16.7	18.3
4	DKC7074	12.1	16.2	26.5	16.1	17.7	17.2	16.7	17.0	17.5
5	Vivek QPM 9	11.8	16.5	22.7	16.4	16.8	17.2	14.8	16.0	16.6
6	Vivek Maize Hybrid 21	13.6	15.7	24.7	15.5	17.4	16.2	15.9	16.1	16.9
7	Vivek Maize Hybrid 43	10.7	15.5	21.5	16.7	16.1	16.4	15.9	16.2	16.1
8	APQH9	12.4	16.5	18.0	14.3	15.3	16.2	15.1	15.7	15.4
	CHECKS									
9	BIO 605(C)	14.5	16.2	21.3	16.8	17.2	16.3	16.6	16.5	16.9
10	PMH-5(C)	12.8	15.9	22.4	15.3	16.6	17.1	17.0	17.1	16.7
11	Prakash(C)	15.4	16.3	-	15.6	15.8	16.0	14.9	15.5	15.6
12	Vivek Maize Hybrid 45(C)	11.3	16.5	24.8	18.6	17.8	16.3	15.6	16.0	17.2
13	Vivek Maize Hybrid 51(C)	11.3	15.7	22.0	18.1	16.8	16.0	16.9	16.5	16.7
	Loc. Mean	**12.5**	**16.1**	**23.2**	**16.6**	**16.9**	**16.6**	**16.0**	**16.3**	**16.7**
	C.D. (5%)	4.87	1.19	3.83	-	2.91	-	0.94	1.53	1.92
	C.V. (%)	17.95	3.40	7.20	-	11.96	-	2.70	4.32	9.95
	F (Prob)	0.54	0.64	0.00	-	0.54	0.00	0.00	0.55	0.30

TABLE No. 25 (Contd.)

		STAND AT HARVEST ('000/ha)									CWZ	
						PZ(ZN 4)					ZN 5	OV'L
S.No.	PEDIGREE	DHAR	VAGA	KARI	KOLH	Mean	BANS	BHIL	CHHI	UDAI	Mean	Mean
1	DMH-1	40.6	40.5	11.1	43.3	41.5	64.6	59.5	52.5	52.4	57.2	50.5
2	DMRH1305	50.0	46.4	32.2	43.3	46.6	62.5	61.9	59.2	56.0	59.9	54.2
3	Pratap QPM Hybrid -1	63.5	41.7	7.8	43.3	49.5	62.5	57.1	63.3	42.9	56.5	53.5
4	DKC7074	66.7	40.5	30.0	44.4	50.5	59.4	63.1	60.0	51.2	58.4	55.0
5	Vivek QPM 9	55.2	45.2	33.3	48.9	49.8	58.3	63.1	57.5	44.0	55.7	53.2
6	Vivek Maize Hybrid 21	66.7	45.2	11.1	51.1	54.3	62.5	57.1	55.8	53.6	57.3	56.0
7	Vivek Maize Hybrid 43	55.2	50.0	14.4	40.0	48.4	59.4	57.1	59.2	50.0	56.4	53.0
8	APQH9	56.3	50.0	31.1	46.7	51.0	58.3	57.1	53.3	48.8	54.4	52.9
	CHECKS											
9	BIO 605(C)	36.5	40.5	12.2	40.0	39.0	55.2	58.3	56.7	38.1	52.1	46.5
10	PMH-5(C)	60.4	46.4	15.6	48.9	51.9	60.4	63.1	53.3	52.4	57.3	55.0
11	Prakash(C)	29.2	42.9	3.3	38.9	37.0	54.2	56.0	59.2	47.6	54.2	46.8
12	Vivek Maize Hybrid 45(C)	63.5	47.6	35.6	42.2	51.1	59.4	60.7	59.2	51.2	57.6	54.8
13	Vivek Maize Hybrid 51(C)	59.4	41.7	26.7	43.3	48.1	62.5	59.5	55.8	46.4	56.1	52.7
	Loc. Mean	**54.1**	**44.5**	**20.3**	**44.2**	**47.6**	**59.9**	**59.5**	**57.3**	**48.8**	**56.4**	**52.6**
	C.D. (5%)	21.17	7.24	28.48	6.83	10.99	8.63	10.76	11.09	8.04	4.84	5.42
	C.V. (%)	17.96	7.47	64.26	7.09	13.70	6.61	8.30	8.88	7.56	5.98	9.67
	F (Prob)	0.03	0.09	0.25	0.04	0.08	0.40	0.83	0.69	0.02	0.21	0.01

Locations Rejected due to High C.V.(i.e.> 20%) : KARIMNAGAR 64.3%

		DAYS TO 50% POLLEN SHED									CWZ	
						PZ(ZN 4)					ZN 5	OV'L
S.No.	PEDIGREE	DHAR	VAGA	KARI	KOLH	Mean	BANS	BHIL	CHHI	UDAI	Mean	Mean
1	DMH-1	54.0	45.5	55.0	55.0	52.4	36.5	42.0	57.5	41.5	44.4	48.4
2	DMRH1305	55.0	45.5	53.5	55.0	52.3	37.5	41.5	56.0	43.0	44.5	48.4
3	Pratap QPM Hybrid -1	59.0	46.5	56.0	57.0	54.6	35.0	48.5	58.0	49.0	47.6	51.1
4	DKC7074	59.0	48.0	55.0	57.0	54.8	37.0	47.5	60.0	45.5	47.5	51.1
5	Vivek QPM 9	52.5	43.0	55.0	53.0	50.9	36.5	41.0	54.0	39.5	42.8	46.8
6	Vivek Maize Hybrid 21	52.0	45.0	54.0	54.0	51.3	35.0	41.0	53.5	42.0	42.9	47.1
7	Vivek Maize Hybrid 43	53.5	43.5	49.5	53.0	49.9	36.5	43.0	55.5	46.5	45.4	47.6
8	APQH9	52.5	44.5	55.5	52.0	51.1	38.0	40.0	53.5	43.0	43.6	47.4
	CHECKS											
9	BIO 605(C)	57.5	47.5	49.5	56.0	52.6	38.0	48.0	55.0	49.5	47.6	50.1
10	PMH-5(C)	54.0	47.0	58.0	54.0	53.3	37.5	44.0	56.5	44.0	45.5	49.4
11	Prakash(C)	57.0	46.5	59.5	55.0	54.5	36.0	47.0	57.5	42.0	45.6	50.1
12	Vivek Maize Hybrid 45(C)	54.0	45.5	55.0	53.0	51.9	36.5	43.5	56.5	46.5	45.8	48.8
13	Vivek Maize Hybrid 51(C)	53.5	44.5	55.0	54.0	51.8	35.5	42.5	57.5	46.5	45.5	48.6
	Loc. Mean	**54.9**	**45.6**	**54.7**	**54.5**	**52.4**	**36.6**	**43.8**	**56.2**	**44.5**	**45.3**	**48.8**
	C.D. (5%)	2.80	1.33	2.19	-	2.48	2.79	4.14	2.52	4.29	2.83	1.84
	C.V. (%)	2.34	1.34	1.84	-	3.30	3.50	4.34	2.05	4.43	4.36	3.80
	F (Prob)	0.00	0.00	0.00	-	0.00	0.34	0.01	0.00	0.01	0.01	0.00

TABLE No. 25 (Contd.)

		DAYS TO 50% SILKING									CWZ	
					PZ(ZN 4)						ZN 5	OV'L
S.No.	PEDIGREE	DHAR	VAGA	KARI	KOLH	Mean	BANS	BHIL	CHHI	UDAI	Mean	Mean
1	DMH-1	55.5	48.5	57.5	57.0	54.6	39.5	46.5	58.5	46.5	47.8	51.2
2	DMRH1305	56.0	49.0	55.5	57.0	54.4	40.5	46.5	58.0	46.5	47.9	51.1
3	Pratap QPM Hybrid -1	60.5	49.5	58.0	59.0	56.8	38.0	53.0	59.5	52.5	50.8	53.8
4	DKC7074	60.0	51.0	57.0	59.0	56.8	40.0	52.0	61.0	49.0	50.5	53.6
5	Vivek QPM 9	53.0	46.0	56.0	54.0	52.3	39.5	46.0	55.5	44.0	46.3	49.3
6	Vivek Maize Hybrid 21	54.0	48.0	56.5	56.0	53.6	38.0	45.5	55.5	46.5	46.4	50.0
7	Vivek Maize Hybrid 43	54.0	46.5	52.0	55.0	51.9	39.5	47.5	57.5	50.5	48.8	50.3
8	APQH9	53.5	47.5	58.0	53.0	53.0	41.0	45.0	54.0	45.5	46.4	49.7
	CHECKS											
9	BIO 605(C)	59.0	50.5	51.0	73.0	58.4	41.0	52.5	58.5	54.0	51.5	54.9
10	PMH-5(C)	55.0	49.5	60.5	56.0	55.3	40.5	48.0	58.5	48.5	48.9	52.1
11	Prakash(C)	57.5	49.5	62.5	56.0	56.4	39.0	51.5	58.0	46.5	48.8	52.6
12	Vivek Maize Hybrid 45(C)	55.5	49.5	57.0	55.0	54.3	39.5	48.5	58.0	51.0	49.3	51.8
13	Vivek Maize Hybrid 51(C)	54.0	47.5	56.5	56.0	53.5	38.5	46.5	58.5	50.5	48.5	51.0
	Loc. Mean	**56.0**	**48.7**	**56.8**	**57.4**	**54.7**	**39.6**	**48.4**	**57.8**	**48.6**	**48.6**	**51.6**
	C.D. (5%)	3.17	1.28	2.21	12.82	4.35	2.79	3.69	1.46	3.48	2.63	2.39
	C.V. (%)	2.60	1.21	1.79	10.25	5.55	3.23	3.50	1.16	3.29	3.78	4.66
	F (Prob)	0.00	0.00	0.00	0.27	0.13	0.34	0.00	0.00	0.00	0.00	0.00

		DAYS TO 75% DRY HUSK								CWZ	
					PZ(ZN 4)					ZN 5	OV'L
S.No.	PEDIGREE	DHAR	VAGA	KARI	KOLH	Mean	BANS	BHIL	CHHI	Mean	Mean
1	DMH-1	101.0	88.0	92.5	89.0	92.6	72.0	75.5	97.0	81.5	87.9
2	DMRH1305	101.5	88.5	90.5	89.0	92.4	72.0	73.0	94.0	79.7	86.9
3	Pratap QPM Hybrid -1	108.0	89.5	93.0	91.0	95.4	70.5	79.0	104.0	84.5	90.7
4	DKC7074	103.5	91.0	92.0	91.0	94.4	72.5	78.5	98.5	83.2	89.6
5	Vivek QPM 9	101.5	86.0	91.0	86.0	91.1	70.5	72.5	90.0	77.7	85.4
6	Vivek Maize Hybrid 21	98.0	87.0	91.5	88.0	91.1	70.0	73.0	88.0	77.0	85.1
7	Vivek Maize Hybrid 43	99.0	86.5	87.0	87.0	89.9	70.5	77.5	92.5	80.2	85.7
8	APQH9	98.5	87.0	93.0	85.0	90.9	73.5	75.0	89.0	79.2	85.9
	CHECKS										
9	BIO 605(C)	104.0	90.5	86.0	90.0	92.6	71.5	80.0	95.0	82.2	88.1
10	PMH-5(C)	98.5	88.5	95.5	88.0	92.6	73.0	76.5	94.0	81.2	87.7
11	Prakash(C)	102.0	89.5	97.5	88.0	94.3	72.5	78.0	89.0	79.8	88.1
12	Vivek Maize Hybrid 45(C)	100.0	89.0	92.0	83.5	91.1	72.0	77.0	95.5	81.5	87.0
13	Vivek Maize Hybrid 51(C)	98.5	87.0	91.5	88.0	91.3	70.5	74.0	95.5	80.0	86.4
	Loc. Mean	**101.1**	**88.3**	**91.8**	**88.0**	**92.3**	**71.6**	**76.1**	**94.0**	**80.6**	**87.3**
	C.D. (5%)	2.87	2.09	2.21	2.99	3.12	2.34	3.68	1.54	4.52	2.49
	C.V. (%)	1.30	1.08	1.11	1.56	2.36	1.50	2.22	0.75	3.33	2.68
	F (Prob)	0.00	0.00	0.00	0.00	0.04	0.10	0.01	0.00	0.11	0.00

TABLE No. 25 (Contd.)

		PLANT HEIGHT(cm)									CWZ	
						PZ(ZN 4)					ZN 5	OV'L
S.No.	PEDIGREE	DHAR	VAGA	KARI	KOLH	Mean	BANS	BHIL	CHHI	UDAI	Mean	Mean
1	DMH-1	213.5	155.6	105.5	160.0	158.6	150.0	162.0	136.0	183.7	157.9	158.3
2	DMRH1305	169.0	121.5	91.5	137.5	129.9	170.0	148.5	110.5	168.8	149.4	139.7
3	Pratap QPM Hybrid -1	214.5	173.0	96.5	162.5	161.6	147.5	171.5	147.5	211.8	169.6	165.6
4	DKC7074	183.0	165.3	104.0	160.0	153.1	170.0	151.0	123.0	149.8	148.4	150.8
5	Vivek QPM 9	197.5	137.1	104.0	162.5	150.3	152.5	171.0	119.5	173.2	154.1	152.2
6	Vivek Maize Hybrid 21	181.0	147.2	98.0	152.5	144.7	142.5	156.0	118.0	160.7	144.3	144.5
7	Vivek Maize Hybrid 43	163.0	136.6	96.0	132.5	132.0	137.5	146.0	130.0	149.7	140.8	136.4
8	APQH9	189.5	148.1	102.5	162.5	150.6	162.5	177.5	119.5	171.8	157.8	154.2
	CHECKS											
9	BIO 605(C)	206.0	155.5	133.5	170.0	166.2	172.5	166.0	138.0	231.2	176.9	171.6
10	PMH-5(C)	180.0	174.2	90.0	147.5	147.9	170.0	170.0	135.0	175.7	162.7	155.3
11	Prakash(C)	129.0	150.0	97.5	140.0	129.1	152.5	134.0	120.5	177.7	146.2	137.6
12	Vivek Maize Hybrid 45(C)	153.5	141.3	90.5	147.5	133.2	170.0	149.0	117.0	156.2	148.1	140.6
13	Vivek Maize Hybrid 51(C)	194.0	180.0	111.0	160.0	161.2	170.0	156.5	140.5	171.4	159.6	160.4
	Loc. Mean	**182.6**	**152.7**	**101.6**	**153.5**	**147.6**	**159.0**	**158.4**	**127.3**	**175.5**	**155.1**	**151.3**
	C.D. (5%)	43.25	18.19	34.11	28.05	18.20	42.70	16.23	24.30	11.40	19.27	12.72
	C.V. (%)	10.87	5.47	15.41	8.39	8.60	12.32	4.70	8.76	2.98	8.66	8.46
	F (Prob)	0.03	0.00	0.45	0.21	0.00	0.65	0.00	0.12	0.00	0.02	0.00

		EAR HEIGHT(cm)									CWZ	
						PZ(ZN 4)					ZN 5	OV'L
S.No.	PEDIGREE	DHAR	VAGA	KARI	KOLH	Mean	BANS	BHIL	CHHI	UDAI	Mean	Mean
1	DMH-1	100.0	81.3	47.5	77.5	76.6	70.0	88.5	53.0	75.7	71.8	74.2
2	DMRH1305	67.0	57.1	36.0	60.0	55.0	70.0	73.5	39.0	60.2	60.7	57.9
3	Pratap QPM Hybrid -1	90.5	74.8	29.0	60.0	63.6	65.0	79.0	42.0	65.9	63.0	63.3
4	DKC7074	93.0	77.1	43.5	87.5	75.3	77.5	86.5	51.0	71.2	71.6	73.4
5	Vivek QPM 9	89.5	57.8	38.5	77.5	65.8	77.5	81.0	48.5	64.2	67.8	66.8
6	Vivek Maize Hybrid 21	76.0	46.8	30.5	62.5	54.0	70.0	61.0	40.0	47.9	54.7	54.3
7	Vivek Maize Hybrid 43	57.5	58.9	29.0	55.0	50.1	70.0	68.0	48.0	37.4	55.8	53.0
8	APQH9	83.5	67.4	40.5	77.5	67.2	65.0	88.0	55.5	67.8	69.1	68.1
	CHECKS											
9	BIO 605(C)	88.0	75.3	54.0	80.0	74.3	77.5	84.5	48.0	83.8	73.4	73.9
10	PMH-5(C)	78.5	85.8	37.5	70.0	68.0	82.5	86.5	54.5	63.2	71.7	69.8
11	Prakash(C)	60.0	74.1	37.5	55.0	56.7	75.0	68.0	36.5	58.8	59.6	58.1
12	Vivek Maize Hybrid 45(C)	65.5	70.6	39.0	72.5	61.9	75.0	79.5	45.5	51.8	62.9	62.4
13	Vivek Maize Hybrid 51(C)	91.5	83.0	49.0	72.5	74.0	90.0	79.5	55.0	56.8	70.3	72.2
	Loc. Mean	**80.0**	**70.0**	**39.3**	**69.8**	**64.8**	**74.2**	**78.7**	**47.4**	**61.9**	**65.6**	**65.2**
	C.D. (5%)	29.71	14.24	17.02	27.87	11.06	21.89	12.44	14.53	8.14	10.02	7.01
	C.V. (%)	17.04	9.34	19.86	18.32	11.91	13.54	7.25	14.07	6.04	10.66	10.82
	F (Prob)	0.11	0.00	0.14	0.32	0.00	0.52	0.01	0.15	0.00	0.00	0.00

TABLE No. 26 **PERFORMANCE OF EXPERIMENTAL HYBRIDS AT BAJAURA, KANGRA, UDHAMPUR IN TRIAL No. TR ZN 102 ZONE1 DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE BAJA	R	KANG	R	UDHA	R	NHZ ZN 1 MEAN	R	OV'L MEAN	R
1	UDMH 132	7137	13	5150	13	7196	9	6494	14	6494	14
2	LMH 1316	8146	9	6121	3	7242	8	7170	8	7170	8
3	KMH 14-68	8313	8	6093	4	6955	10	7120	9	7120	9
4	LMH 1416	11397	1	6619	2	8049	3	8688	1	8688	1
5	UDMH 131	6958	14	5952	7	8072	2	6994	10	6994	10
6	LMH 1516	7821	10	6034	6	6743	13	6866	11	6866	11
7	KMH 14-37	6905	15	6720	1	6790	12	6805	12	6805	12
8	LMH 1616	10634	2	5306	12	7909	5	7949	3	7949	3
9	LMH 1716	9830	5	5348	11	8019	4	7733	4	7733	4
10	KMH 14-73	7424	12	6092	5	6632	14	6716	13	6716	13
11	UDMH 130	7523	11	4885	14	6884	11	6431	15	6431	15
12	LMH 1816	10325	4	4882	15	6626	15	7277	7	7277	7
13	LMH 1916	9070	6	5934	8	7689	7	7565	5	7565	5
	CHECKS										
14	BIO 9544(C)	10432	3	5728	9	8571	1	8244	2	8244	2
15	Palam Sankar Makka-2(C)	8871	7	5483	10	7699	6	7351	6	7351	6
	Location Mean	**8719**		**5757**		**7405**		**7294**		**7294**	
	C.D. (5%)	651		474		430		518		518	
	C.V. (%)	4.46		4.92		3.47		-		-	
	F (Prob)	0		0		0					
	Plot Size	3.6		3.84		4.8		-		-	
	AGRONOMY DATA										
	Sowing Date	10-06		14-06		29-06		-		-	
	Harvest Date	10-10		23-09		8-10		-		-	
	Irrigation Nos	3		-		-		-		-	
	Ferilizer Applied N	120		120		120		-		-	
	Ferilizer Applied P	60		60		60		-		-	
	Ferilizer Applied K	40		40		40		-		-	

TABLE No. 26 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9544(C) BAJA	R	KANG	R	UDHA	R	ZN 1 MEAN	R	OV'L MEAN	R
1	UDMH 132	-		-		-		-		-	
2	LMH 1316	-		6.9		-		-		-	
3	KMH 14-68	-		6.4		-		-		-	
4	LMH 1416	9.3		15.5		-		5.4		5.4	
5	UDMH 131	-		3.9		-		-		-	
6	LMH 1516	-		5.3		-		-		-	
7	KMH 14-37	-		17.3		-		-		-	
8	LMH 1616	1.9		-		-		-		-	
9	LMH 1716	-		-		-		-		-	
10	KMH 14-73	-		6.4		-		-		-	
11	UDMH 130	-		-		-		-		-	
12	LMH 1816	-		-		-		-		-	
13	LMH 1916	-		3.6		-		-		-	
	CHECKS										
14	BIO 9544(C)	-		-		-		-		-	
15	Palam Sankar Makka-2(C)	-		-		-		-		-	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER Palam Sankar Makka-2(C) BAJA	R	KANG	R	UDHA	R	ZN 1 MEAN	R	OV'L MEAN	R
1	UDMH 132	-		-		-		-		-	
2	LMH 1316	-		11.6		-		-		-	
3	KMH 14-68	-		11.1		-		-		-	
4	LMH 1416	28.5		20.7		4.5		18.2		18.2	
5	UDMH 131	-		8.6		4.8		-		-	
6	LMH 1516	-		10.1		-		-		-	
7	KMH 14-37	-		22.6		-		-		-	
8	LMH 1616	19.9		-		2.7		8.1		8.1	
9	LMH 1716	10.8		-		4.1		5.2		5.2	
10	KMH 14-73	-		11.1		-		-		-	
11	UDMH 130	-		-		-		-		-	
12	LMH 1816	16.4		-		-		-		-	
13	LMH 1916	2.2		8.2		-		2.9		2.9	
	CHECKS										
14	BIO 9544(C)	17.6		4.5		11.3		12.1		12.1	
15	Palam Sankar Makka-2(C)	-		-		-		-		-	

TABLE No. 26 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % BAJA	KANG	UDHA	NHZ ZN 1 Mean	MOISTURE % AT HARVEST BAJA	KANG	UDHA	NHZ ZN 1 Mean	STAND AT HARVEST ('000/ha) BAJA	KANG	UDHA	NHZ ZN 1 Mean
1	UDMH 132	82.9	80.1	79.5	80.8	19.2	35.1	24.4	26.2	61.1	78.1	75.7	71.6
2	LMH 1316	86.3	81.6	81.3	83.0	16.9	31.5	24.0	24.1	65.7	79.0	75.7	73.5
3	KMH 14-68	83.8	82.1	82.0	82.6	18.8	29.7	24.5	24.3	53.7	80.7	75.7	70.0
4	LMH 1416	85.6	77.1	81.0	81.2	19.2	37.9	25.2	27.4	58.3	82.5	76.4	72.4
5	UDMH 131	86.8	79.8	84.2	83.6	18.0	29.2	24.5	23.9	59.3	81.6	77.1	72.6
6	LMH 1516	83.1	82.0	85.7	83.6	18.7	33.7	25.0	25.8	63.9	81.6	74.3	73.3
7	KMH 14-37	84.1	83.0	83.0	83.4	16.5	31.8	25.0	24.4	63.0	78.1	77.8	73.0
8	LMH 1616	84.8	78.5	77.0	80.1	19.3	37.6	24.5	27.1	57.4	79.9	72.9	70.1
9	LMH 1716	83.2	78.2	84.8	82.1	18.9	34.9	24.6	26.1	63.9	81.6	76.4	74.0
10	KMH 14-73	84.1	82.6	79.0	81.9	17.5	28.2	23.6	23.1	62.0	80.7	75.0	72.6
11	UDMH 130	84.5	77.3	83.0	81.6	19.2	38.1	24.6	27.3	54.6	79.9	76.4	70.3
12	LMH 1816	83.5	76.4	81.0	80.3	19.2	37.8	25.0	27.3	54.6	82.5	76.4	71.2
13	LMH 1916	86.5	83.4	84.0	84.6	17.6	31.3	24.6	24.5	66.7	78.1	76.4	73.7
	CHECKS												
14	BIO 9544(C)	86.8	77.3	82.5	82.2	23.6	38.6	25.0	29.1	58.3	81.6	76.4	72.1
15	Palam Sankar Makka-2(C)	86.2	79.3	84.1	83.2	19.8	29.2	24.5	24.5	56.5	79.9	78.5	71.6
	Loc. Mean	**84.8**	**79.9**	**82.1**	**82.3**	**18.8**	**33.6**	**24.6**	**25.7**	**59.9**	**80.4**	**76.1**	**72.1**
	C.D. (5%)	-	1.37	1.98	3.38	2.12	1.69	0.62	3.39	6.94	5.85	3.56	4.80
	C.V. (%)	-	1.02	1.44	2.46	6.73	3.01	1.52	7.90	6.92	4.35	2.79	3.98
	F (Prob)	-	0.00	0.00	0.29	0.00	0.00	0.00	0.04	0.01	0.86	0.34	0.83

TABLE No. 26 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED			NHZ ZN 1	DAYS TO 50% SILKING			NHZ ZN 1	DAYS TO 75% DRY HUSK			NHZ ZN 1
		BAJA	KANG	UDHA	Mean	BAJA	KANG	UDHA	Mean	BAJA	KANG	UDHA	Mean
1	UDMH 132	62.7	55.3	55.0	57.7	64.7	59.0	59.0	60.9	101.0	95.0	92.7	96.2
2	LMH 1316	54.3	45.7	48.0	49.3	57.0	49.7	52.0	52.9	95.3	85.7	91.7	90.9
3	KMH 14-68	58.3	46.3	50.0	51.6	60.7	50.3	54.0	55.0	99.7	86.3	91.0	92.3
4	LMH 1416	61.7	53.3	55.0	56.7	64.3	57.0	58.7	60.0	101.0	93.0	91.0	95.0
5	UDMH 131	56.0	46.0	51.0	51.0	58.0	50.3	54.0	54.1	97.3	86.3	88.7	90.8
6	LMH 1516	58.0	50.7	51.0	53.2	60.3	54.0	55.0	56.4	101.0	89.3	91.3	93.9
7	KMH 14-37	56.3	45.7	50.0	50.7	58.7	50.0	54.0	54.2	95.3	86.0	91.7	91.0
8	LMH 1616	63.3	54.0	52.0	56.4	65.7	57.7	56.0	59.8	101.7	93.7	92.7	96.0
9	LMH 1716	60.0	52.0	52.0	54.7	62.3	56.7	56.0	58.3	99.3	92.7	92.0	94.7
10	KMH 14-73	57.7	46.3	53.0	52.3	59.7	50.3	57.0	55.7	98.3	86.3	93.0	92.6
11	UDMH 130	63.7	56.7	52.0	57.4	66.0	60.3	56.0	60.8	102.3	96.3	92.7	97.1
12	LMH 1816	62.3	55.0	51.0	56.1	64.3	59.3	55.3	59.7	101.0	95.3	92.7	96.3
13	LMH 1916	60.3	52.0	51.0	54.4	62.3	56.0	55.0	57.8	97.7	92.0	92.3	94.0
	CHECKS												
14	BIO 9544(C)	64.0	55.7	55.7	58.4	66.0	59.7	59.0	61.6	108.0	95.7	93.0	98.9
15	Palam Sankar Makka-2(C)	60.3	50.3	54.0	54.9	62.3	53.7	58.0	58.0	99.7	89.7	92.7	94.0
	Loc. Mean	**59.9**	**51.0**	**52.0**	**54.3**	**62.2**	**54.9**	**55.9**	**57.7**	**99.9**	**90.9**	**91.9**	**94.2**
	C.D. (5%)	1.64	1.85	0.25	2.90	1.77	1.47	0.35	2.80	2.50	1.43	2.60	3.60
	C.V. (%)	1.64	2.16	0.29	3.19	1.70	1.60	0.37	2.91	1.50	0.94	1.69	2.28
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00

TABLE No. 26 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) BAJA	KANG	UDHA	NHZ ZN 1 Mean	EAR HEIGHT(cm) BAJA	KANG	UDHA	NHZ ZN 1 Mean
1	UDMH 132	200.0	236.0	218.8	218.3	90.0	127.7	100.2	105.9
2	LMH 1316	150.0	198.3	208.2	185.5	65.0	102.7	89.6	85.8
3	KMH 14-68	188.3	225.7	202.3	205.4	98.3	124.3	93.0	105.2
4	LMH 1416	181.7	211.7	230.7	208.0	95.0	115.7	96.5	102.4
5	UDMH 131	165.0	179.3	192.0	178.8	85.0	91.7	90.3	89.0
6	LMH 1516	173.3	181.3	200.8	185.2	75.0	95.3	92.2	87.5
7	KMH 14-37	180.0	212.7	230.7	207.8	86.7	111.0	100.2	99.3
8	LMH 1616	201.7	234.3	242.8	226.3	103.3	116.7	104.5	108.2
9	LMH 1716	178.3	224.7	229.0	210.7	86.7	114.3	101.0	100.7
10	KMH 14-73	181.7	229.7	237.0	216.1	90.0	117.7	103.5	103.7
11	UDMH 130	163.3	187.3	200.0	183.6	75.0	95.0	98.0	89.3
12	LMH 1816	186.7	217.3	229.3	211.1	90.0	110.0	97.8	99.3
13	LMH 1916	185.0	201.7	189.8	192.2	91.7	100.7	83.3	91.9
	CHECKS								
14	BIO 9544(C)	183.3	241.7	229.8	218.3	90.0	132.3	108.3	110.2
15	Palam Sankar Makka-2(C)	161.7	210.0	220.3	197.3	78.3	105.3	99.3	94.3
	Loc. Mean	**178.7**	**212.8**	**217.4**	**203.0**	**86.7**	**110.7**	**97.2**	**98.2**
	C.D. (5%)	15.53	9.69	4.99	17.77	16.11	8.25	3.06	11.72
	C.V. (%)	5.20	2.72	1.37	5.23	11.11	4.46	1.88	7.14
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 27 **PERFORMANCE OF EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, SRINAGAR IN TRIAL No. TR ZN 103 ZONE 1 DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE ALMO	R	BAJA	R	SRIN	R	NHZ ZN 1 MEAN	R	OV'L MEAN	R
1	UDMH 133	7652	14	8570	20	7852	14	8025	18	8025	18
2	KDMH 102	3415	22	4357	22	8427	2	5400	22	5400	22
3	FH 3815	8359	11	13156	5	8313	6	9943	8	9943	8
4	FH 3819	9651	6	11965	12	8488	1	10035	7	10035	7
5	FH 3820	7168	17	12951	7	8339	5	9486	13	9486	13
6	FH 3821	10893	2	14107	2	7540	17	10847	2	10847	2
7	FH 3827	5449	21	8626	19	8362	4	7479	20	7479	20
8	KMH-14-46	8049	13	14318	1	7871	13	10079	6	10079	6
9	FH 3854	10698	5	11477	14	6585	20	9587	12	9587	12
10	KDMH 104	5896	20	8266	21	7047	18	7070	21	7070	21
11	FH 3850	9232	7	10454	16	8175	8	9287	14	9287	14
12	LMH 116	8226	12	12689	9	8275	7	9730	10	9730	10
13	LMH 516	9002	10	13169	4	6646	19	9606	11	9606	11
14	LMH 216	9133	8	12784	8	7606	15	9841	9	9841	9
15	LMH 416	7619	16	9169	17	7571	16	8120	17	8120	17
16	LMH 316	6911	18	11012	15	6495	22	8139	16	8139	16
17	KMH-14-50	7633	15	11820	13	6533	21	8662	15	8662	15
18	FH 3848	10762	4	12308	11	7926	11	10332	4	10332	4
19	FH 3849	11022	1	13800	3	8070	9	10964	1	10964	1
20	KDMH 103	6705	19	8899	18	7903	12	7836	19	7836	19
	CHECKS										
21	Vivek Hybrid 45(C)	9084	9	13000	6	8368	3	10151	5	10151	5
22	Vivek Hybrid 39(C)	10864	3	12576	10	8007	10	10482	3	10482	3
	Location Mean	**8338**		**11340**		**7745**		**9141**		**9141**	
	C.D. (5%)	1327		1289		575		1064		1064	
	C.V. (%)	9.65		6.9		4.5		-		-	
	F (Prob)	0		0		0					
	Plot Size	3.6		2.4		4.8		-		-	
	AGRONOMY DATA										
	Sowing Date	30-06		8-06		3-05		-		-	
	Harvest Date	12-07		1-10		30-10		-		-	
	Irrigation Nos	-		3		2		-		-	
	Ferilizer Applied N	90		120		120		-		-	
	Ferilizer Applied P	60		60		80		-		-	
	Ferilizer Applied K	40		40		60		-		-	

TABLE No. 27 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 45(C)						NHZ(ZN 1)		OV'L	
		ALMO	R	BAJA	R	SRIN	R	MEAN	R	MEAN	R
1	UDMH 133	-		-		-		-		-	
2	KDMH 102	-		-		0.7		-		-	
3	FH 3815	-		1.2		-		-		-	
4	FH 3819	6.2		-		1.4		-		-	
5	FH 3820	-		-		-		-		-	
6	FH 3821	19.9		8.5		-		6.9		6.9	
7	FH 3827	-		-		-		-		-	
8	KMH-14-46	-		10.1		-		-		-	
9	FH 3854	17.8		-		-		-		-	
10	KDMH 104	-		-		-		-		-	
11	FH 3850	1.6		-		-		-		-	
12	LMH 116	-		-		-		-		-	
13	LMH 516	-		1.3		-		-		-	
14	LMH 216	0.5		-		-		-		-	
15	LMH 416	-		-		-		-		-	
16	LMH 316	-		-		-		-		-	
17	KMH-14-50	-		-		-		-		-	
18	FH 3848	18.5		-		-		1.8		1.8	
19	FH 3849	21.3		6.2		-		8		8	
20	KDMH 103	-		-		-		-		-	
	CHECKS										
21	Vivek Hybrid 45(C)	-		-		-		-		-	
22	Vivek Hybrid 39(C)	19.6		-		-		3.3		3.3	

GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 39(C)											
								NHZ(ZN 1)		OV'L	
ALMO	R	BAJA	R	SRIN	R	MEAN	R	MEAN	R
-		-		-		-		-	
-		-		5.3		-		-	
-		4.6		3.8		-		-	
-		-		6		-		-	
-		3		4.1		-		-	
0.3		12.2		-		3.5		3.5	
-		-		4.4		-		-	
-		13.9		-		-		-	
-		-		-		-		-	
-		-		-		-		-	
-		-		2.1		-		-	
-		0.9		3.3		-		-	
-		4.7		-		-		-	
-		1.7		-		-		-	
-		-		-		-		-	
-		-		-		-		-	
-		-		-		-		-	
-		-		-		-		-	
1.5		9.7		0.8		4.6		4.6	
-		-		-		-		-	
-		3.4		4.5		-		-	
-		-		-		-		-	

TABLE No. 27 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % NHZ(ZN 1) ALMO	BAJA	SRIN	Mean	MOISTURE % AT HARVEST NHZ(ZN 1) ALMO	BAJA	SRIN	Mean	STAND AT HARVEST ('000/ha) NHZ(ZN 1) ALMO	BAJA	SRIN	Mean
1	UDMH 133	83.9	88.1	77.5	83.2	20.2	18.7	20.5	19.8	62.0	65.3	80.6	69.3
2	KDMH 102	85.0	76.0	78.3	79.8	18.1	19.6	22.0	19.9	57.4	50.0	81.3	62.9
3	FH 3815	80.7	81.1	76.3	79.3	20.0	18.9	25.0	21.3	63.0	81.9	81.3	75.4
4	FH 3819	81.2	80.6	76.8	79.5	20.5	19.1	25.0	21.5	61.1	73.6	82.6	72.5
5	FH 3820	85.4	85.3	76.8	82.5	21.3	19.1	25.5	22.0	63.9	88.9	80.6	77.8
6	FH 3821	84.1	86.5	78.5	83.1	22.8	19.4	26.5	22.9	62.0	83.3	83.3	76.2
7	FH 3827	80.2	73.8	78.3	77.4	20.0	19.5	23.0	20.8	65.7	81.9	80.6	76.1
8	KMH-14-46	85.8	89.0	76.0	83.6	21.0	18.8	24.5	21.4	58.3	80.6	82.6	73.8
9	FH 3854	82.8	78.5	78.0	79.8	17.7	19.3	24.5	20.5	65.7	68.1	81.9	71.9
10	KDMH 104	85.5	85.1	77.3	82.6	18.5	19.0	27.0	21.5	54.6	65.3	82.6	67.5
11	FH 3850	82.1	79.6	78.8	80.1	19.4	19.2	23.5	20.7	62.0	61.1	80.6	67.9
12	LMH 116	85.2	83.5	77.5	82.0	20.1	19.2	25.5	21.6	64.8	81.9	81.9	76.2
13	LMH 516	86.6	83.9	78.3	82.9	19.2	19.1	26.5	21.6	63.9	86.1	81.3	77.1
14	LMH 216	80.7	84.7	78.3	81.2	23.0	19.2	24.5	22.2	64.8	76.4	81.3	74.2
15	LMH 416	82.9	82.5	78.3	81.2	19.6	19.4	24.5	21.2	64.8	68.1	83.3	72.1
16	LMH 316	85.8	81.0	79.0	81.9	19.6	18.7	23.5	20.6	63.0	83.3	80.6	75.6
17	KMH-14-50	83.6	82.6	78.3	81.5	21.6	19.8	24.0	21.8	60.2	72.2	83.3	71.9
18	FH 3848	80.8	83.4	77.8	80.6	18.4	19.0	25.5	21.0	60.2	66.7	81.9	69.6
19	FH 3849	82.7	84.5	78.3	81.8	21.0	19.2	23.0	21.1	62.0	73.6	81.9	72.5
20	KDMH 103	85.0	82.0	79.5	82.2	19.5	19.0	22.0	20.2	62.0	62.5	83.3	69.3
	CHECKS												
21	Vivek Hybrid 45(C)	83.8	85.0	77.8	82.2	20.4	19.0	22.5	20.6	58.3	73.6	83.3	71.8
22	Vivek Hybrid 39(C)	85.8	86.3	77.3	83.1	18.3	19.6	26.0	21.3	64.8	77.8	82.6	75.1
	Loc. Mean	**83.6**	**82.9**	**77.8**	**81.4**	**20.0**	**19.2**	**24.3**	**21.2**	**62.0**	**73.7**	**81.9**	**72.6**
	C.D. (5%)	0.98	0.00	0.67	3.85	2.26	0.39	2.25	2.07	5.51	8.25	2.21	9.12
	C.V. (%)	0.71	0.00	0.52	2.87	6.85	1.25	5.62	5.94	5.39	6.79	1.63	7.63
	F (Prob)	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.41	0.01	0.00	0.05	0.21

TABLE No. 27 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED NHZ(ZN 1) ALMO	BAJA	SRIN	Mean	DAYS TO 50% SILKING NHZ(ZN 1) ALMO	BAJA	SRIN	Mean	DAYS TO 75% DRY HUSK NHZ(ZN 1) ALMO	BAJA	SRIN	Mean
1	UDMH 133	55.7	56.7	70.7	61.0	57.0	59.0	72.7	62.9	98.3	97.3	121.0	105.6
2	KDMH 102	61.3	62.7	72.3	65.4	61.3	65.0	74.7	67.0	98.0	100.0	122.3	106.8
3	FH 3815	58.7	60.0	69.3	62.7	59.7	62.0	71.7	64.4	96.3	98.3	116.3	103.7
4	FH 3819	55.3	58.3	72.3	62.0	56.7	60.7	75.0	64.1	98.7	102.0	119.3	106.7
5	FH 3820	58.7	62.7	73.3	64.9	59.3	65.0	76.3	66.9	104.0	103.3	123.0	110.1
6	FH 3821	55.0	56.0	75.7	62.2	56.3	58.0	78.0	64.1	100.7	98.3	122.3	107.1
7	FH 3827	55.7	56.7	69.0	60.4	57.0	58.7	71.7	62.4	104.7	97.7	118.3	106.9
8	KMH-14-46	57.7	56.3	73.0	62.3	59.0	58.7	76.0	64.6	96.7	96.0	121.3	104.7
9	FH 3854	54.7	56.0	74.3	61.7	55.3	58.0	77.0	63.4	98.0	98.3	123.7	106.7
10	KDMH 104	56.3	57.3	71.7	61.8	57.7	59.3	74.0	63.7	98.3	99.7	119.7	105.9
11	FH 3850	55.7	56.7	70.3	60.9	57.3	59.0	73.7	63.3	96.0	98.3	119.7	104.7
12	LMH 116	59.3	60.0	70.7	63.3	59.7	62.0	73.7	65.1	100.7	99.3	119.7	106.6
13	LMH 516	55.7	57.3	73.0	62.0	57.0	59.3	75.7	64.0	97.0	99.7	123.3	106.7
14	LMH 216	56.0	57.3	74.3	62.6	57.7	59.3	77.0	64.7	99.7	98.0	121.0	106.2
15	LMH 416	52.0	53.3	74.0	59.8	52.7	55.7	76.3	61.6	91.0	92.3	121.7	101.7
16	LMH 316	50.0	51.0	71.7	57.6	51.0	53.0	74.0	59.3	91.7	101.0	118.3	103.7
17	KMH-14-50	59.3	59.0	70.7	63.0	60.7	61.3	73.0	65.0	101.0	101.0	120.0	107.3
18	FH 3848	53.3	58.0	73.7	61.7	54.3	60.3	76.3	63.7	96.0	101.3	123.0	106.8
19	FH 3849	54.3	55.7	70.7	60.2	55.7	57.7	73.3	62.2	93.0	94.7	116.7	101.4
20	KDMH 103	55.0	55.0	70.0	60.0	56.0	57.3	72.7	62.0	96.3	96.0	117.7	103.3
	CHECKS												
21	Vivek Hybrid 45(C)	54.7	56.7	74.0	61.8	55.3	58.7	76.7	63.6	97.7	96.7	123.3	105.9
22	Vivek Hybrid 39(C)	50.0	57.0	72.7	59.9	51.0	59.0	76.0	62.0	97.0	98.3	121.0	105.4
	Loc. Mean	**55.7**	**57.3**	**72.2**	**61.7**	**56.7**	**59.4**	**74.8**	**63.6**	**97.8**	**98.5**	**120.6**	**105.6**
	C.D. (5%)	1.47	2.55	1.41	3.56	1.45	2.63	1.85	3.60	2.72	2.99	4.46	3.82
	C.V. (%)	1.61	2.70	1.18	3.50	1.55	2.68	1.50	3.43	1.69	1.84	2.24	2.19
	F (Prob)	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.05	0.00	0.00	0.03	0.02

TABLE No. 27 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) NHZ(ZN 1) ALMO	BAJA	SRIN	Mean	EAR HEIGHT(cm) NHZ(ZN 1) ALMO	BAJA	SRIN	Mean
1	UDMH 133	210.0	166.7	165.3	180.7	121.7	85.0	80.0	95.6
2	KDMH 102	193.3	173.3	155.0	173.9	121.7	103.3	71.7	98.9
3	FH 3815	238.3	185.0	165.0	196.1	121.7	88.3	80.0	96.7
4	FH 3819	216.7	195.0	160.0	190.6	121.7	96.7	80.0	99.4
5	FH 3820	201.7	175.0	150.0	175.6	88.3	80.0	75.0	81.1
6	FH 3821	205.0	175.0	168.3	182.8	106.7	75.0	85.0	88.9
7	FH 3827	226.7	208.3	165.0	200.0	106.7	100.0	75.0	93.9
8	KMH-14-46	231.7	215.0	145.0	197.2	120.0	111.7	71.7	101.1
9	FH 3854	230.0	208.3	160.0	199.4	111.7	88.3	78.3	92.8
10	KDMH 104	230.0	193.3	165.0	196.1	130.0	86.7	83.3	100.0
11	FH 3850	215.0	181.7	160.0	185.6	108.3	86.7	75.0	90.0
12	LMH 116	195.0	188.3	155.0	179.4	98.3	100.0	75.0	91.1
13	LMH 516	220.0	190.0	150.0	186.7	108.3	85.0	73.3	88.9
14	LMH 216	228.3	176.7	155.0	186.7	116.7	91.7	78.3	95.6
15	LMH 416	186.7	151.7	170.0	169.4	80.0	61.7	83.3	75.0
16	LMH 316	178.3	160.0	165.0	167.8	80.0	85.0	78.3	81.1
17	KMH-14-50	235.0	203.3	145.0	194.4	131.7	105.0	73.3	103.3
18	FH 3848	225.0	211.7	170.0	202.2	123.3	100.0	88.3	103.9
19	FH 3849	213.3	190.0	165.0	189.4	105.0	95.0	80.0	93.3
20	KDMH 103	235.0	198.3	155.0	196.1	123.3	100.0	78.3	100.6
	CHECKS								
21	Vivek Hybrid 45(C)	205.0	165.0	175.0	181.7	110.0	85.0	86.7	93.9
22	Vivek Hybrid 39(C)	198.3	180.0	170.0	182.8	85.0	81.7	83.3	83.3
	Loc. Mean	**214.5**	**186.0**	**160.6**	**187.0**	**110.0**	**90.5**	**78.8**	**93.1**
	C.D. (5%)	12.76	17.89	3.38	22.24	12.71	11.91	4.42	16.86
	C.V. (%)	3.61	5.84	1.28	7.22	7.01	7.98	3.40	10.99
	F (Prob)	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.07

TABLE No. 28 PERFORMANCE OF EXPERIMENTAL HYBRIDS AT DHOLI, BAHRAICH, BHUBANESHWAR, VARANASI IN TRIAL No. TR NEPZ ZONE 3 DURING KHARIF 2016

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE DHOL	R	BAHR	R	BHUB	R	VARA	R	NEPZ ZN 3 MEAN	R	OV'L MEAN	R
1	VEH 16-1	8572	5	6900	2	6303	1	2953	1	6182	2	6182	2
2	VEH 16-2	7823	7	6675	4	5682	4	2820	4	5750	4	5750	4
3	VEH 16-3	9000	2	6696	3	5115	8	2671	9	5871	3	5871	3
4	VEH 16-4	11356	1	5885	5	5677	5	2749	7	6417	1	6417	1
5	VEHQ-16-1	8106	6	4977	8	5687	3	2570	10	5335	7	5335	7
6	RAUMH-15	8646	4	4310	11	5592	6	2942	3	5372	6	5372	6
7	RAUMH-16	5076	12	4446	10	4187	12	2416	12	4031	12	4031	12
8	RAUMH-17	5438	11	3739	12	4447	11	2950	2	4143	11	4143	11
9	RAUMH-18	7442	9	5552	6	5741	2	2756	6	5373	5	5373	5
10	BAUMC-4	5516	10	7037	1	5109	9	2790	5	5113	10	5113	10
11	Filler	8682	3	4811	9	5060	10	2679	8	5308	8	5308	8
	CHECKS												
12	9544(C)	7631	8	5009	7	5360	7	2554	11	5139	9	5139	9
	Location Mean	**7774**		**5503**		**5330**		**2738**		**5336**		**5336**	
	C.D. (5%)	2385		1094		633		676		1197		1197	
	C.V. (%)	18.07		11.71		7		14.55		-		-	
	F (Prob)	0.004		0		0		0.826					
	Plot Size	4		4.8		4.8		4.8		-		-	
	AGRONOMY DATA												
	Sowing Date	8-07		21-06		29-06		28-06		-		-	
	Harvest Date	20-10		1-10		19-10		6-10		-		-	
	Irrigation Nos	2		-		-		-		-		-	
	Ferilizer Applied N	120		120		120		120		-		-	
	Ferilizer Applied P	60		60		60		60		-		-	
	Ferilizer Applied K	40		-		60		40		-		-	

GRAIN YIELD % SUPERIORITY OVER THE 9544(C) DHOL	R	BAHR	R	BHUB	R	VARA	R	ZN 3 MEAN	R	OV'L MEAN	R
12.3		37.7		17.6		15.6		20.3		20.3	
2.5		33.2		6		10.4		11.9		11.9	
17.9		33.7		-		4.6		14.2		14.2	
48.8		17.5		5.9		7.6		24.9		24.9	
6.2		-		6.1		0.6		3.8		3.8	
13.3		-		4.3		15.2		4.5		4.5	
-		-		-		-		-		-	
-		-		-		15.5		-		-	
-		10.8		7.1		7.9		4.6		4.6	
-		40.5		-		9.2		-		-	
13.8		-		-		4.9		3.3		3.3	
-		-		-		-		-		-	

Table No. 28 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % DHOL	BAHR	BHUB	NEPZ ZN 3 Mean
1	VEH 16-1	79.5	74.7	81.0	78.4
2	VEH 16-2	79.0	77.1	78.1	78.1
3	VEH 16-3	78.5	81.9	79.6	80.0
4	VEH 16-4	80.0	75.6	80.9	78.8
5	VEHQ-16-1	80.0	71.7	78.7	76.8
6	RAUMH-15	80.0	71.1	79.3	76.8
7	RAUMH-16	80.0	71.1	79.3	76.8
8	RAUMH-17	82.5	69.8	79.3	77.2
9	RAUMH-18	80.0	74.9	79.6	78.2
10	BAUMC-4	83.5	76.8	78.2	79.5
11	Filler	83.5	72.2	78.3	78.0
	CHECKS				
12	9544(C)	81.5	73.6	80.0	78.4
	Loc. Mean	**80.7**	**74.2**	**79.4**	**78.1**
	C.D. (5%)	3.63	1.04	0.00	4.14
	C.V. (%)	2.65	0.83	0.00	3.13
	F (Prob)	0.10	0.00	0.00	0.84

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) DHOL	BAHR	BHUB	VARA	NEPZ ZN 3 Mean
1	VEH 16-1	75.8	71.5	62.5	59.7	67.4
2	VEH 16-2	77.5	66.7	56.3	59.0	64.9
3	VEH 16-3	81.7	56.3	61.8	58.3	64.5
4	VEH 16-4	77.5	65.3	59.0	67.4	67.3
5	VEHQ-16-1	75.0	62.5	59.0	62.5	64.8
6	RAUMH-15	80.8	72.2	60.4	63.9	69.3
7	RAUMH-16	71.7	62.5	62.5	59.7	64.1
8	RAUMH-17	74.2	66.0	58.3	55.6	63.5
9	RAUMH-18	75.8	66.0	61.8	60.4	66.0
10	BAUMC-4	73.3	72.2	63.2	66.0	68.7
11	Filler	71.7	58.3	62.5	61.1	63.4
	CHECKS					
12	9544(C)	80.8	56.3	64.6	61.8	65.9
	Loc. Mean	**76.3**	**64.6**	**61.0**	**61.3**	**65.8**
	C.D. (5%)	11.83	7.28	6.37	6.20	5.61
	C.V. (%)	9.16	6.65	6.17	5.98	5.93
	F (Prob)	0.70	0.00	0.33	0.04	0.44

S.No.	PEDIGREE	MOISTURE % AT HARVEST DHOL	BAHR	BHUB	VARA	NEPZ ZN 3 Mean
1	VEH 16-1	24.2	27.1	18.6	32.6	25.6
2	VEH 16-2	21.9	27.0	18.3	31.5	24.7
3	VEH 16-3	23.1	27.0	17.2	35.1	25.6
4	VEH 16-4	23.4	26.1	18.2	37.2	26.2
5	VEHQ-16-1	22.8	24.8	18.1	37.4	25.8
6	RAUMH-15	22.4	26.4	17.8	36.6	25.8
7	RAUMH-16	19.1	24.9	18.2	35.2	24.4
8	RAUMH-17	20.2	22.8	17.3	32.8	23.3
9	RAUMH-18	18.9	25.0	17.5	35.1	24.1
10	BAUMC-4	22.4	24.7	18.4	35.3	25.2
11	Filler	20.9	23.1	17.6	35.0	24.1
	CHECKS					
12	9544(C)	24.2	26.2	18.8	37.9	26.8
	Loc. Mean	**21.9**	**25.4**	**18.0**	**35.1**	**25.1**
	C.D. (5%)	1.84	0.84	-	1.73	1.95
	C.V. (%)	4.96	1.95	-	2.90	5.41
	F (Prob)	0.00	0.00	0.00	0.00	0.03

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED DHOL	BAHR	BHUB	VARA	NEPZ ZN 3 Mean
1	VEH 16-1	61.7	55.3	50.0	53.0	55.0
2	VEH 16-2	60.7	58.7	49.0	54.7	55.8
3	VEH 16-3	61.3	54.7	48.0	54.7	54.7
4	VEH 16-4	60.7	57.3	48.0	54.0	55.0
5	VEHQ-16-1	61.0	51.7	48.0	55.3	54.0
6	RAUMH-15	56.7	58.7	51.0	53.0	54.8
7	RAUMH-16	57.0	55.3	49.0	53.3	53.7
8	RAUMH-17	56.0	57.3	48.0	54.0	53.8
9	RAUMH-18	56.7	56.3	49.0	54.0	54.0
10	BAUMC-4	58.3	56.7	49.0	53.7	54.4
11	Filler	58.3	51.0	49.0	53.3	52.9
	CHECKS					
12	9544(C)	58.3	59.0	51.0	52.3	55.2
	Loc. Mean	**58.9**	**56.0**	**49.1**	**53.8**	**54.4**
	C.D. (5%)	3.42	2.30	1.52	2.25	2.68
	C.V. (%)	3.43	2.42	1.83	2.47	3.43
	F (Prob)	0.01	0.00	0.00	0.34	0.72

Table No. 28 (Contd.)

		DAYS TO 50% SILKING				NEPZ ZN 3
S.No.	PEDIGREE	DHOL	BAHR	BHUB	VARA	Mean
1	VEH 16-1	63.7	57.3	53.0	57.7	57.9
2	VEH 16-2	62.7	60.7	52.0	59.7	58.8
3	VEH 16-3	63.3	56.7	51.0	64.0	58.8
4	VEH 16-4	62.7	59.3	51.0	59.0	58.0
5	VEHQ-16-1	63.0	53.7	51.0	59.0	56.7
6	RAUMH-15	59.0	60.7	54.0	58.7	58.1
7	RAUMH-16	59.0	57.3	52.0	58.7	56.8
8	RAUMH-17	58.3	59.3	51.0	58.7	56.8
9	RAUMH-18	58.3	58.3	52.0	58.7	56.8
10	BAUMC-4	61.0	58.7	52.0	58.7	57.6
11	Filler	60.3	53.0	52.0	58.0	55.8
	CHECKS					
12	9544(C)	60.3	61.0	54.0	59.7	58.8
	Loc. Mean	**61.0**	**58.0**	**52.1**	**59.2**	**57.6**
	C.D. (5%)	3.48	2.30	1.52	2.71	2.74
	C.V. (%)	3.37	2.34	1.73	2.70	3.30
	F (Prob)	0.02	0.00	0.00	0.01	0.44

		PLANT HEIGHT(cm)				NEPZ ZN 3
S.No.	PEDIGREE	DHOL	BAHR	BHUB	VARA	Mean
1	VEH 16-1	176.7	156.3	189.7	161.7	171.1
2	VEH 16-2	130.0	138.6	183.0	151.7	150.8
3	VEH 16-3	163.0	178.4	182.0	151.7	168.8
4	VEH 16-4	129.0	159.2	178.7	151.7	154.6
5	VEHQ-16-1	135.0	164.2	188.0	151.7	159.7
6	RAUMH-15	140.7	133.9	185.0	141.7	150.3
7	RAUMH-16	120.7	146.2	180.0	138.3	146.3
8	RAUMH-17	140.7	176.8	177.3	141.7	159.1
9	RAUMH-18	145.3	174.8	176.7	148.3	161.3
10	BAUMC-4	145.7	171.0	182.0	160.0	164.7
11	Filler	121.3	131.8	180.7	145.0	144.7
	CHECKS					
12	9544(C)	129.7	143.1	181.0	140.0	148.5
	Loc. Mean	**139.8**	**156.2**	**182.0**	**148.6**	**156.7**
	C.D. (5%)	14.93	6.60	4.36	14.24	15.09
	C.V. (%)	6.31	2.50	1.42	5.66	6.70
	F (Prob)	0.00	0.00	0.00	0.04	0.01

		DAYS TO 75% DRY HUSK				NEPZ ZN 3
S.No.	PEDIGREE	DHOL	BAHR	BHUB	VARA	Mean
1	VEH 16-1	88.7	94.7	85.0	91.7	90.0
2	VEH 16-2	89.0	92.7	86.0	92.7	90.1
3	VEH 16-3	88.3	88.7	87.0	95.0	89.8
4	VEH 16-4	88.3	95.7	87.0	92.7	90.9
5	VEHQ-16-1	94.7	94.3	89.0	95.0	93.3
6	RAUMH-15	89.7	97.3	89.0	92.7	92.2
7	RAUMH-16	87.3	94.3	86.0	93.3	90.3
8	RAUMH-17	86.3	92.0	86.0	91.0	88.8
9	RAUMH-18	89.0	93.0	86.0	91.7	89.9
10	BAUMC-4	88.7	90.3	89.0	91.0	89.8
11	Filler	86.3	88.0	88.0	92.0	88.6
	CHECKS					
12	9544(C)	87.7	92.3	89.0	92.0	90.3
	Loc. Mean	**88.7**	**92.8**	**87.3**	**92.6**	**90.3**
	C.D. (5%)	3.73	2.28	1.51	2.66	2.56
	C.V. (%)	2.48	1.45	1.02	1.70	1.97
	F (Prob)	0.02	0.00	0.00	0.06	0.05

		EAR HEIGHT(cm)				NEPZ ZN 3
S.No.	PEDIGREE	DHOL	BAHR	BHUB	VARA	Mean
1	VEH 16-1	81.3	50.7	86.7	90.0	77.2
2	VEH 16-2	59.7	53.3	87.3	75.0	68.8
3	VEH 16-3	71.3	69.7	87.3	81.7	77.5
4	VEH 16-4	57.0	57.9	87.7	78.3	70.2
5	VEHQ-16-1	62.3	61.3	87.3	78.3	72.3
6	RAUMH-15	65.7	36.0	84.3	81.7	66.9
7	RAUMH-16	55.7	60.1	85.3	76.7	69.4
8	RAUMH-17	65.0	66.9	77.7	73.3	70.7
9	RAUMH-18	68.7	74.9	80.7	83.3	76.9
10	BAUMC-4	69.0	61.7	84.0	103.3	79.5
11	Filler	54.7	44.1	84.3	81.7	66.2
	CHECKS					
12	9544(C)	63.3	63.7	89.7	88.3	76.3
	Loc. Mean	**64.5**	**58.4**	**85.2**	**82.6**	**72.7**
	C.D. (5%)	11.65	5.37	2.72	17.48	10.84
	C.V. (%)	10.67	5.43	1.88	12.49	10.37
	F (Prob)	0.00	0.00	0.00	0.10	0.19

TABLE No.29 **PERFORMANCE OF EXPERIMENTAL HYBRIDS AT HYDERABAD, MANDYA, COIMBATORE IN TRIAL No. TR ZN MEDIUM LATE MATURITY ZONE 4 DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								PZ ZN 4		OV'L	
		HYDE	R	KARI	R	MAND	R	COIM	R	MEAN	R	MEAN	R
1	KNMH 4503	5432	13	2948	13	9800	16	10511	9	8581	13	8581	13
2	KNMH 4504	6890	8	3373	10	10720	11	9569	14	9060	12	9060	12
3	KNMH 4507	7435	6	3328	12	10319	13	10401	10	9385	9	9385	9
4	KNMH 4513	6050	10	2833	14	11062	8	11562	6	9558	7	9558	7
5	KNMH 4514	4610	15	2738	16	10440	12	9245	15	8098	14	8098	14
6	BH 414158	4183	16	3694	7	10024	15	9727	13	7978	15	7978	15
7	BH 414176	7621	4	4984	1	12333	4	12328	5	10761	4	10761	4
8	BH 414012	7148	7	3422	9	10826	10	9781	12	9252	10	9252	10
9	BH 414143	8096	3	4300	4	13445	2	14620	1	12054	1	12054	1
10	QMH 1420	5703	12	4608	3	11659	6	10385	11	9249	11	9249	11
11	QMH 1347	6650	9	3357	11	11002	9	13890	2	10514	5	10514	5
12	QMH 2966	2959	17	2747	15	10172	14	8659	16	7263	16	7263	16
13	QMH 1252	5032	14	2676	17	8832	17	6636	17	6833	17	6833	17
	CHECKS												
14	DHM 117(C)	5941	11	4054	5	11137	7	11469	7	9516	8	9516	8
15	DHM 121(C)	8670	2	3746	6	12592	3	12774	4	11345	3	11345	3
16	CoH (M) 8(C)	7467	5	4662	2	12203	5	10654	8	10108	6	10108	6
17	CoH (M) 7(C)	8695	1	3576	8	13507	1	13453	3	11885	2	11885	2
	Location Mean	**6387**		**3591**		**11181**		**10921**		**9497**		**9497**	
	C.D. (5%)	1437		1497		1148		848		1144		1144	
	C.V. (%)	13.51		**25.04**		6.17		4.66		**-**		-	
	F (Prob)	0		0.042		0		0					
	Plot Size	6		6		4.8		4.8		-		-	
	AGRONOMY DATA												
	Sowing Date	22-06		5-07		5-08		25-06		-		-	
	Harvest Date	24-10		30-10		20-12		26-10		-		-	
	Irrigation Nos	4		5		8		12		-		-	
	Ferilizer Applied N	200		200		150		250		-		-	
	Ferilizer Applied P	60		60		75		75		-		-	
	Ferilizer Applied K	50		50		40		75		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V. : KARI 25.0 %

TABLE No. 29 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE DHM 117(C) HYDE	R	KARI	R	MAND	R	COIM	R	PZ(ZN 4) MEAN	R	OV'L MEAN	R
1	KNMH 4503	-		-		-		-		-		-	
2	KNMH 4504	16		-		-		-		-		-	
3	KNMH 4507	25.2		-		-		-		-		-	
4	KNMH 4513	1.8		-		-		0.8		0.4		0.4	
5	KNMH 4514	-		-		-		-		-		-	
6	BH 414158	-		-		-		-		-		-	
7	BH 414176	28.3		22.9		10.7		7.5		13.1		13.1	
8	BH 414012	20.3		-		-		-		-		-	
9	BH 414143	36.3		6.1		20.7		27.5		26.7		26.7	
10	QMH 1420	-		13.7		4.7		-		-		-	
11	QMH 1347	11.9		-		-		21.1		10.5		10.5	
12	QMH 2966	-		-		-		-		-		-	
13	QMH 1252	-		-		-		-		-		-	
	CHECKS												
14	DHM 117(C)	-		-		-		-		-		-	
15	DHM 121(C)	45.9		-		13.1		11.4		19.2		19.2	
16	CoH (M) 8(C)	25.7		15		9.6		-		6.2		6.2	
17	CoH (M) 7(C)	46.4		-		21.3		17.3		24.9		24.9	

GRAIN YIELD % SUPERIORITY OVER THE DHM 121(C) HYDE	R	KARI	R	MAND	R	COIM	R	PZ(ZN 4) MEAN	R	OV'L MEAN	R
-		-		-		-		-		-	
-		-		-		-		-		-	
-		-		-		-		-		-	
-		-		-		-		-		-	
-		-		-		-		-		-	
-		-		-		-		-		-	
-		33		-		-		-		-	
-		-		-		-		-		-	
-		14.8		6.8		14.5		6.3		6.3	
-		23		-		-		-		-	
-		-		-		8.7		-		-	
-		-		-		-		-		-	
-		-		-		-		-		-	
-		8.2		-		-		-		-	
-		-		-		-		-		-	
-		24.5		-		-		-		-	
0.3		-		7.3		5.3		4.8		4.8	

TABLE No. 29 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE CoH (M) 8(C) HYDE	R	KARI	R	MAND	R	COIM	R	PZ(ZN 4) MEAN	R	OV'L MEAN	R
1	KNMH 4503	-		-		-		-		-		-	
2	KNMH 4504	-		-		-		-		-		-	
3	KNMH 4507	-		-		-		-		-		-	
4	KNMH 4513	-		-		-		8.5		-		-	
5	KNMH 4514	-		-		-		-		-		-	
6	BH 414158	-		-		-		-		-		-	
7	BH 414176	2.1		6.9		1.1		15.7		6.5		6.5	
8	BH 414012	-		-		-		-		-		-	
9	BH 414143	8.4		-		10.2		37.2		19.3		19.3	
10	QMH 1420	-		-		-		-		-		-	
11	QMH 1347	-		-		-		30.4		4		4	
12	QMH 2966	-		-		-		-		-		-	
13	QMH 1252	-		-		-		-		-		-	
	CHECKS												
14	DHM 117(C)	-		-		-		7.6		-		-	
15	DHM 121(C)	16.1		-		3.2		19.9		12.2		12.2	
16	CoH (M) 8(C)	-		-		-		-		-		-	
17	CoH (M) 7(C)	16.4		-		10.7		26.3		17.6		17.6	

GRAIN YIELD % SUPERIORITY OVER THE CoH (M) 7(C) HYDE	R	KARI	R	MAND	R	COIM	PZ(ZN 4) R MEAN	OV'L R MEAN	R
-		-		-		-	-	-	
-		-		-		-	-	-	
-		-		-		-	-	-	
-		-		-		-	-	-	
-		-		-		-	-	-	
-		3.3		-		-	-	-	
-		39.4		-		-	-	-	
-		-		-		-	-	-	
-		20.2		-		8.7	1.4	1.4	
-		28.9		-		-	-	-	
-		-		-		3.2	-	-	
-		-		-		-	-	-	
-		-		-		-	-	-	
-		13.4		-		-	-	-	
-		4.8		-		-	-	-	
-		30.4		-		-	-	-	
-		-		-		-	-	-	

TABLE No. 29 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % HYDE	KARI	MAND	COIM	PZ ZN 4 Mean	MOISTURE % AT HARVEST HYDE	KARI	MAND	COIM	PZ ZN 4 Mean	STAND AT HARVEST ('000/ha) HYDE	KARI	MAND	COIM	PZ ZN 4 Mean
1	KNMH 4503	78.9	77.3	79.8	79.3	78.8	22.0	22.0	17.1	20.9	20.5	61.1	42.2	65.3	65.3	58.5
2	KNMH 4504	77.8	78.9	78.5	79.8	78.7	23.5	20.5	17.5	19.2	20.2	53.3	37.2	69.4	66.0	56.5
3	KNMH 4507	79.8	77.6	79.5	79.9	79.2	22.0	23.0	17.9	21.5	21.1	60.0	36.7	66.0	66.7	57.3
4	KNMH 4513	79.5	80.5	81.0	85.0	81.5	23.4	19.2	16.6	19.1	19.6	58.3	47.2	66.7	67.4	59.9
5	KNMH 4514	74.9	78.3	78.0	83.1	78.6	25.8	21.1	18.1	19.6	21.1	61.7	37.8	69.4	66.0	58.7
6	BH 414158	76.6	79.8	77.0	79.9	78.3	23.1	22.0	18.0	18.9	20.5	60.6	45.6	70.8	65.3	60.6
7	BH 414176	73.6	79.5	79.5	82.1	78.7	24.3	19.7	17.7	19.1	20.2	65.0	57.8	71.5	66.7	65.2
8	BH 414012	77.6	78.7	79.5	83.2	79.7	23.8	19.5	17.6	19.3	20.0	62.2	45.6	66.0	66.7	60.1
9	BH 414143	77.9	81.4	80.5	83.3	80.8	23.5	18.6	16.9	18.9	19.5	64.4	44.4	70.8	65.3	61.3
10	QMH 1420	77.0	77.0	78.0	78.7	77.7	24.5	21.3	17.0	19.6	20.6	59.4	46.1	79.9	66.7	63.0
11	QMH 1347	77.6	75.8	79.0	79.5	78.0	24.6	23.0	18.0	20.9	21.6	61.7	45.0	68.8	64.6	60.0
12	QMH 2966	75.5	77.5	78.5	83.1	78.6	22.0	22.1	18.3	20.6	20.7	55.6	38.3	63.2	66.0	55.8
13	QMH 1252	78.9	79.9	81.0	80.0	80.0	22.6	17.8	16.3	21.0	19.4	62.2	43.3	68.1	65.3	59.7
	CHECKS															
14	DHM 117(C)	75.8	73.2	77.8	78.5	76.3	25.9	23.4	18.4	20.4	22.0	62.2	47.2	68.8	66.0	61.0
15	DHM 121(C)	75.8	74.6	78.7	80.1	77.3	24.2	22.8	18.8	19.6	21.4	64.4	45.6	66.0	66.0	60.5
16	CoH (M) 8(C)	74.7	77.8	79.5	80.3	78.1	24.0	23.3	17.5	21.4	21.5	65.6	45.0	66.0	66.0	60.6
17	CoH (M) 7(C)	78.1	76.8	79.5	81.1	78.9	25.4	25.1	18.5	21.4	22.6	63.3	36.1	70.1	66.7	59.1
	Loc. Mean	**77.1**	**77.9**	**79.1**	**81.0**	**78.8**	**23.8**	**21.4**	**17.6**	**20.1**	**20.7**	**61.2**	**43.6**	**68.6**	**66.0**	**59.9**
	C.D. (5%)	6.49	1.87	1.32	0.74	2.07	1.87	1.98	0.96	0.39	1.56	8.17	14.17	6.32	2.96	4.71
	C.V. (%)	5.07	1.44	1.01	0.55	1.85	4.72	5.56	3.26	1.17	5.29	8.02	19.54	5.54	2.70	5.54
	F (Prob)	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.33	0.01	0.94	0.05

TABLE No. 29 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED				PZ ZN 4 Mean
		HYDE	KARI	MAND	COIM	
1	KNMH 4503	56.0	53.3	54.0	47.3	52.7
2	KNMH 4504	57.3	52.7	54.3	49.3	53.4
3	KNMH 4507	58.0	55.0	53.0	51.3	54.3
4	KNMH 4513	58.7	55.7	54.7	52.0	55.3
5	KNMH 4514	62.0	55.0	55.7	52.3	56.3
6	BH 414158	61.7	54.7	55.0	51.7	55.8
7	BH 414176	58.7	59.0	54.7	51.7	56.0
8	BH 414012	60.3	58.3	54.3	49.0	55.5
9	BH 414143	60.3	54.0	53.7	51.7	54.9
10	QMH 1420	57.0	54.3	52.0	49.3	53.2
11	QMH 1347	62.0	59.0	56.0	52.7	57.4
12	QMH 2966	58.7	54.0	54.7	49.3	54.2
13	QMH 1252	56.7	55.0	52.7	48.0	53.1
	CHECKS					
14	DHM 117(C)	64.0	58.7	57.3	52.7	58.2
15	DHM 121(C)	59.0	57.3	57.7	52.0	56.5
16	CoH (M) 8(C)	62.3	56.7	55.3	51.7	56.5
17	CoH (M) 7(C)	61.7	58.0	58.3	53.0	57.8
	Loc. Mean	**59.7**	**55.9**	**54.9**	**50.9**	**55.3**
	C.D. (5%)	1.99	1.70	1.74	0.81	1.75
	C.V. (%)	2.01	1.83	1.90	0.96	2.22
	F (Prob)	0.00	0.00	0.00	0.00	0.00

DAYS TO 50% SILKING				PZ ZN 4 Mean
HYDE	KARI	MAND	COIM	
58.0	55.3	56.7	50.7	55.2
59.0	54.7	57.3	52.3	55.8
60.0	56.7	54.7	54.0	56.3
60.7	57.7	57.0	53.7	57.3
64.0	57.3	57.3	54.7	58.3
63.7	56.7	58.0	54.3	58.2
60.3	61.0	58.0	53.7	58.3
62.0	61.0	57.7	51.3	58.0
61.3	56.0	57.7	53.7	57.2
59.0	56.7	54.7	52.7	55.8
64.0	61.7	59.0	54.7	59.8
59.7	56.3	58.7	51.7	56.6
58.3	57.0	54.3	51.0	55.2
66.0	61.0	61.0	56.3	61.1
61.0	60.0	60.7	55.0	59.2
64.3	58.7	57.0	53.7	58.4
63.7	60.3	59.7	55.0	59.7
61.5	**58.1**	**57.6**	**53.4**	**57.7**
2.49	1.56	1.93	0.79	1.89
2.43	1.62	2.01	0.89	2.31
0.00	0.00	0.00	0.00	0.00

DAYS TO 75% DRY HUSK				PZ ZN 4 Mean
HYDE	KARI	MAND	COIM	
88.3	92.7	96.0	92.3	92.3
89.7	99.3	96.3	95.3	95.2
92.3	97.7	95.7	97.3	95.8
95.0	97.3	98.3	96.3	96.8
100.0	98.0	98.3	96.7	98.3
100.7	97.0	97.3	95.7	97.7
96.3	102.0	95.3	95.7	97.3
96.0	101.7	102.0	94.0	98.4
101.3	94.3	100.7	95.7	98.0
96.3	95.7	103.3	95.3	97.7
101.0	100.7	98.0	96.7	99.1
95.0	97.3	103.0	94.3	97.4
94.0	96.3	95.7	93.0	94.8
101.7	101.7	98.0	98.3	99.9
96.3	99.7	97.0	97.0	97.5
98.0	99.3	95.3	96.3	97.3
100.7	100.0	102.0	97.3	100.0
96.6	**98.3**	**98.4**	**95.7**	**97.3**
2.20	1.78	5.83	0.88	3.56
1.37	1.09	3.57	0.56	2.58
0.00	0.00	0.06	0.00	0.01

TABLE No. 29 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) HYDE	KARI	MAND	COIM	PZ ZN 4 Mean	EAR HEIGHT(cm) HYDE	KARI	MAND	COIM	PZ ZN 4 Mean
1	KNMH 4503	196.0	143.7	190.7	186.8	179.3	83.0	44.0	106.7	108.9	85.7
2	KNMH 4504	217.0	174.3	224.7	181.8	199.5	91.3	57.0	125.7	106.9	95.2
3	KNMH 4507	207.7	162.7	209.7	200.0	195.0	78.7	48.3	109.3	117.2	88.4
4	KNMH 4513	219.0	183.3	222.0	194.4	204.7	83.0	71.3	109.3	104.6	92.1
5	KNMH 4514	201.0	192.7	232.0	207.7	208.3	81.7	73.0	125.0	115.7	98.8
6	BH 414158	207.0	165.3	230.7	220.5	205.9	78.3	61.7	135.0	114.2	97.3
7	BH 414176	232.0	193.3	242.7	210.6	219.7	106.7	78.0	144.0	120.2	112.2
8	BH 414012	192.3	160.0	205.3	216.4	193.5	85.7	64.7	124.7	130.2	101.3
9	BH 414143	215.3	187.0	223.3	218.7	211.1	83.3	65.7	125.7	113.7	97.1
10	QMH 1420	205.3	159.3	211.7	189.8	191.5	83.3	58.0	122.7	113.6	94.4
11	QMH 1347	217.0	179.3	236.3	211.8	211.1	94.3	67.7	136.3	116.9	103.8
12	QMH 2966	194.1	165.7	209.0	215.8	196.1	85.0	63.0	134.7	121.5	101.1
13	QMH 1252	196.3	146.7	198.0	175.5	179.1	77.3	46.3	115.7	104.2	85.9
	CHECKS										
14	DHM 117(C)	217.3	184.7	208.3	203.3	203.4	90.0	71.0	118.7	114.8	98.6
15	DHM 121(C)	204.0	164.0	211.3	189.6	192.2	83.7	55.3	118.3	106.4	90.9
16	CoH (M) 8(C)	221.7	195.0	243.3	225.1	221.3	99.0	80.3	142.3	133.5	113.8
17	CoH (M) 7(C)	224.3	195.3	256.3	227.2	225.8	96.3	78.3	151.0	130.4	114.0
	Loc. Mean	**209.9**	**173.7**	**220.9**	**204.4**	**202.2**	**87.1**	**63.7**	**126.2**	**116.1**	**98.3**
	C.D. (5%)	13.99	13.09	18.14	6.83	13.14	11.24	8.21	13.47	3.78	8.96
	C.V. (%)	4.01	4.53	4.94	2.01	4.57	7.76	7.75	6.42	1.96	6.41
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 30 **PERFORMANCE OF EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSWARA, CHHINDWARA, GODHRA, UDAIPUR IN TRIAL No. TR ZN 501 ZONE 5 DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										CWZ ZN 5		OV'L	
		AMBI	R	BANS	R	CHHI	R	GODH	R	UDAI	R	MEAN	R	MEAN	R
1	IAHM-2015-104	5921	4	5801	3	7457	3	6418	3	4615	12	6042	1	6042	1
2	IAHM-2015-59	6347	2	5426	11	8288	1	2339	13	4779	10	5436	7	5436	7
3	IAHM-2015-58	6441	1	5547	6	5870	9	3052	10	4842	8	5151	10	5151	10
4	EH-2946	4805	9	5531	8	5610	10	2998	12	4533	13	4695	12	4695	12
5	EH-2945	6060	3	5134	14	7913	2	4308	7	4118	14	5507	6	5507	6
6	EH-2944	5133	7	5546	7	5482	11	3663	9	6050	4	5175	9	5175	9
7	EH-2943	4200	10	5262	12	6351	7	4256	8	5333	7	5080	11	5080	11
8	EH-2942	5596	5	5645	5	5161	12	4740	6	6883	1	5605	5	5605	5
9	EH-2941	5571	6	5471	10	6452	6	8049	1	4669	11	6042	2	6042	2
10	EH-2603	3827	14	5494	9	6911	5	6733	2	6488	2	5890	4	5890	4
11	EH-2408	4140	11	5147	13	4528	14	3019	11	4796	9	4326	14	4326	14
12	EH2401	4085	12	5669	4	4803	13	1224	14	5923	5	4341	13	4341	13
	CHECKS														
13	Pratap Makka -9	3846	13	6161	1	5921	8	5476	5	5725	6	5426	8	5426	8
14	Pratap Maize Hybrid-3	4885	8	5852	2	7144	4	5869	4	6068	3	5963	3	5963	3
	Location Mean	**5061**		**5549**		**6278**		**4439**		**5344**		**5334**		**5334**	
	C.D. (5%)	644		768		1393		1096		314		843		843	
	C.V. (%)	7.56		8.23		13.19		14.68		3.5		-		-	
	F (Prob)	0		0.342		0		0		0					
	Plot Size	6		4.8		6		2.4		4.8		-		-	
	AGRONOMY DATA														
	Sowing Date	12-07		6-07		18-07		8-07		5-07		-		-	
	Harvest Date	-		21-10		3-12		25-10		23-10		-		-	
	Irrigation Nos	-		1		-		-		1		-		-	
	Ferilizer Applied N	120		150		120		120		120		-		-	
	Ferilizer Applied P	60		80		60		60		90		-		-	
	Ferilizer Applied K	40		-		40		-		-		-		-	

TABLE No. 30 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Pratap Makka -9																			
		AMBI	R	BANS	R	CHHI	R	GODH	R	UDAI	R	CWZ(ZN 5) MEAN	R	OV'L MEAN	R
1	IAHM-2015-104	54		-		25.9		17.2		-		11.4		11.4	
2	IAHM-2015-59	65		-		40		-		-		0.2		0.2	
3	IAHM-2015-58	67.5		-		-		-		-		-		-	
4	EH-2946	24.9		-		-		-		-		-		-	
5	EH-2945	57.6		-		33.6		-		-		1.5		1.5	
6	EH-2944	33.5		-		-		-		5.7		-		-	
7	EH-2943	9.2		-		7.3		-		-		-		-	
8	EH-2942	45.5		-		-		-		20.2		3.3		3.3	
9	EH-2941	44.9		-		9		47		-		11.4		11.4	
10	EH-2603	-		-		16.7		23		13.3		8.6		8.6	
11	EH-2408	7.7		-		-		-		-		-		-	
12	EH2401	6.2		-		-		-		3.5		-		-	
	CHECKS														
13	Pratap Makka -9	-		-		-		-		-		-		-	
14	Pratap Maize Hybrid-3	27		-		20.6		7.2		6		9.9		9.9	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Pratap Maize Hybrid-3																			
		AMBI	R	BANS	R	CHHI	R	GODH	R	UDAI	R	CWZ(ZN 5) MEAN	R	OV'L MEAN	R
1	IAHM-2015-104	21.2		-		4.4		9.4		-		1.3		1.3	
2	IAHM-2015-59	29.9		-		16		-		-		-		-	
3	IAHM-2015-58	31.9		-		-		-		-		-		-	
4	EH-2946	-		-		-		-		-		-		-	
5	EH-2945	24.1		-		10.8		-		-		-		-	
6	EH-2944	5.1		-		-		-		-		-		-	
7	EH-2943	-		-		-		-		-		-		-	
8	EH-2942	14.6		-		-		-		13.4		-		-	
9	EH-2941	14		-		-		37.1		-		1.3		1.3	
10	EH-2603	-		-		-		14.7		6.9		-		-	
11	EH-2408	-		-		-		-		-		-		-	
12	EH2401	-		-		-		-		-		-		-	
	CHECKS														
13	Pratap Makka -9	-		5.3		-		-		-		-		-	
14	Pratap Maize Hybrid-3	-		-		-		-		-		-		-	

TABLE No. 30 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % AMBI	BANS	CHHI	GODH	UDAI	CWZ ZN 5 Mean
1	IAHM-2015-104	78.7	76.1	86.8	79.8	82.5	80.8
2	IAHM-2015-59	79.1	76.4	88.1	85.4	82.9	82.3
3	IAHM-2015-58	78.4	75.7	85.2	60.4	83.1	76.5
4	EH-2946	78.6	75.1	85.0	87.3	83.0	81.8
5	EH-2945	79.1	75.0	87.6	74.5	83.0	79.8
6	EH-2944	77.1	75.1	84.4	69.6	82.9	77.8
7	EH-2943	79.2	74.8	85.9	69.0	83.1	78.4
8	EH-2942	78.7	76.9	80.9	85.7	83.2	81.1
9	EH-2941	77.5	74.6	83.7	84.8	82.9	80.7
10	EH-2603	77.6	76.2	84.6	86.5	82.5	81.4
11	EH-2408	79.2	75.2	85.0	80.5	83.1	80.6
12	EH2401	78.2	74.6	85.6	82.6	83.1	80.8
	CHECKS						
13	Pratap Makka -9	77.5	78.0	85.2	85.9	82.9	81.9
14	Pratap Maize Hybrid-3	79.4	76.6	83.0	84.1	82.6	81.2
	Loc. Mean	**78.4**	**75.7**	**85.1**	**79.7**	**82.9**	**80.4**
	C.D. (5%)	1.65	1.92	2.74	15.31	0.73	4.87
	C.V. (%)	1.26	1.51	1.92	11.45	0.53	4.78
	F (Prob)	0.10	0.04	0.00	0.02	0.60	0.51

S.No.	PEDIGREE	MOISTURE % AT HARVEST AMBI	BANS	CHHI	GODH	UDAI	CWZ ZN 5 Mean
1	IAHM-2015-104	15.4	17.5	13.3	15.3	23.1	16.9
2	IAHM-2015-59	17.0	17.2	12.6	16.5	23.3	17.3
3	IAHM-2015-58	15.1	17.0	13.7	15.0	23.3	16.8
4	EH-2946	16.5	18.0	14.2	15.8	22.3	17.3
5	EH-2945	15.7	17.9	13.6	16.0	23.1	17.2
6	EH-2944	13.7	17.0	14.3	15.2	23.0	16.6
7	EH-2943	15.5	17.2	12.9	15.8	23.0	16.9
8	EH-2942	16.9	16.9	14.4	15.2	22.7	17.2
9	EH-2941	14.8	17.6	16.9	15.8	22.6	17.5
10	EH-2603	15.1	16.6	15.0	16.5	23.0	17.2
11	EH-2408	16.7	17.1	16.4	15.0	23.2	17.7
12	EH2401	16.6	17.3	12.0	16.6	22.8	17.1
	CHECKS						
13	Pratap Makka -9	14.7	17.3	13.9	15.2	23.2	16.8
14	Pratap Maize Hybrid-3	16.0	17.4	13.9	16.3	23.1	17.3
	Loc. Mean	**15.7**	**17.3**	**14.1**	**15.7**	**22.9**	**17.1**
	C.D. (5%)	1.01	0.68	1.41	0.47	0.67	1.07
	C.V. (%)	3.83	2.36	5.96	1.77	1.73	4.93
	F (Prob)	0.00	0.02	0.00	0.00	0.14	0.82

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) AMBI	BANS	CHHI	GODH	UDAI	CWZ ZN 5 Mean
1	IAHM-2015-104	57.2	65.3	60.0	66.7	63.9	62.6
2	IAHM-2015-59	61.1	62.5	63.3	26.4	63.9	55.4
3	IAHM-2015-58	61.1	63.2	58.3	80.6	63.2	65.3
4	EH-2946	51.1	64.6	56.1	69.4	63.9	61.0
5	EH-2945	57.8	60.4	60.0	70.8	63.9	62.6
6	EH-2944	55.6	63.2	51.1	50.0	63.9	56.8
7	EH-2943	46.1	63.2	65.6	61.1	63.9	60.0
8	EH-2942	57.8	62.5	40.0	68.1	63.9	58.4
9	EH-2941	55.6	58.3	52.8	73.6	61.8	60.4
10	EH-2603	44.4	56.9	57.2	70.8	63.2	58.5
11	EH-2408	47.2	59.7	36.7	29.2	63.9	47.3
12	EH2401	48.9	59.0	55.6	47.2	63.9	54.9
	CHECKS						
13	Pratap Makka -9	45.0	61.8	43.9	70.8	63.9	57.1
14	Pratap Maize Hybrid-3	55.6	63.9	63.9	65.3	63.2	62.4
	Loc. Mean	**53.2**	**61.8**	**54.6**	**60.7**	**63.6**	**58.8**
	C.D. (5%)	3.74	7.44	13.11	12.14	1.89	10.85
	C.V. (%)	4.19	7.18	14.30	11.91	1.77	14.55
	F (Prob)	0.00	0.53	0.00	0.00	0.63	0.21

TABLE No. 30 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED					CWZ ZN 5	DAYS TO 50% SILKING					CWZ ZN 5	DAYS TO 75% DRY HUSK					CWZ ZN 5
		AMBI	BANS	CHHI	GODH	UDAI	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean
1	IAHM-2015-104	55.7	51.0	60.7	47.0	59.3	54.7	58.7	54.0	62.7	49.0	61.0	57.1	99.7	83.7	99.0	81.7	93.3	91.5
2	IAHM-2015-59	54.7	51.0	59.7	53.3	57.3	55.2	57.7	54.0	60.7	55.3	59.3	57.4	100.0	85.3	98.7	84.0	89.7	91.5
3	IAHM-2015-58	53.7	51.0	60.0	49.3	57.7	54.3	56.3	54.0	60.3	51.3	59.7	56.3	95.3	84.0	95.7	80.7	89.0	88.9
4	EH-2946	51.7	50.3	56.7	48.7	50.3	51.5	54.7	53.3	58.0	50.7	52.3	53.8	88.0	83.7	95.0	81.7	83.3	86.3
5	EH-2945	49.7	51.3	56.3	47.0	49.3	50.7	53.3	54.3	56.3	49.0	51.0	52.8	87.3	85.7	93.3	81.3	80.3	85.6
6	EH-2944	53.7	51.0	60.3	50.3	61.7	55.4	56.3	54.0	60.7	52.3	63.7	57.4	96.0	85.0	97.3	85.0	95.3	91.7
7	EH-2943	47.7	51.7	57.0	48.0	49.3	50.7	51.3	54.7	58.3	50.0	51.3	53.1	87.3	85.7	95.3	81.7	82.7	86.5
8	EH-2942	53.7	52.0	61.7	51.0	58.3	55.3	56.7	55.0	62.3	53.0	60.3	57.5	94.7	84.3	98.3	83.0	89.0	89.9
9	EH-2941	56.7	52.3	60.7	47.0	62.3	55.8	59.7	55.3	61.0	49.0	64.3	57.9	99.3	85.3	97.3	79.7	95.0	91.3
10	EH-2603	54.7	50.7	60.7	50.7	57.3	54.8	57.0	53.7	61.3	52.7	59.3	56.8	95.0	84.3	97.3	80.7	89.3	89.3
11	EH-2408	57.7	51.0	62.0	52.0	61.7	56.9	60.7	54.0	63.0	54.0	63.7	59.1	94.7	84.3	98.0	84.3	93.7	91.0
12	EH2401	53.7	52.0	61.7	53.0	61.7	56.4	56.3	55.0	63.0	55.0	63.7	58.6	95.3	85.7	95.7	84.0	93.3	90.8
	CHECKS																		
13	Pratap Makka -9	51.7	50.7	58.7	47.3	49.7	51.6	54.7	53.7	59.3	49.3	51.3	53.7	95.7	84.7	96.3	80.7	84.3	88.3
14	Pratap Maize Hybrid-3	57.7	51.3	60.3	49.0	57.7	55.2	60.3	54.3	60.7	51.0	59.7	57.2	95.0	84.0	96.0	81.3	90.3	89.3
	Loc. Mean	**53.7**	**51.2**	**59.7**	**49.5**	**56.7**	**54.2**	**56.7**	**54.2**	**60.5**	**51.5**	**58.6**	**56.3**	**94.5**	**84.7**	**96.7**	**82.1**	**89.2**	**89.4**
	C.D. (5%)	-	1.41	1.74	1.80	1.04	2.77	0.70	1.41	1.97	1.80	1.07	2.81	0.74	1.74	1.65	2.83	1.35	3.21
	C.V. (%)	-	1.64	1.74	2.17	1.09	4.03	0.73	1.55	1.94	2.08	1.09	3.93	0.47	1.22	1.02	2.05	0.90	2.83
	F (Prob)	-	0.22	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.01	0.00	0.00

TABLE No. 30 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) AMBI	BANS	CHHI	GODH	UDAI	CWZ ZN 5 Mean	EAR HEIGHT(cm) AMBI	BANS	CHHI	GODH	UDAI	CWZ ZN 5 Mean
1	IAHM-2015-104	211.0	168.3	171.3	145.3	150.0	169.2	65.3	85.0	73.7	59.7	76.7	72.1
2	IAHM-2015-59	228.3	168.3	182.0	141.0	153.3	174.6	75.8	73.3	89.0	56.3	60.0	70.9
3	IAHM-2015-58	213.5	168.3	158.3	135.0	153.3	165.7	71.1	71.7	71.7	57.7	61.7	66.8
4	EH-2946	216.5	180.0	168.7	152.7	180.0	179.6	77.1	85.0	76.3	67.7	83.3	77.9
5	EH-2945	237.4	160.0	204.7	162.7	155.0	183.9	72.7	73.3	102.3	80.3	66.7	79.1
6	EH-2944	235.8	180.0	201.3	165.0	150.0	186.4	87.1	76.7	86.7	82.7	63.3	79.3
7	EH-2943	212.0	163.3	189.0	142.7	170.0	175.4	63.7	73.3	87.7	64.3	85.0	74.8
8	EH-2942	257.9	166.7	205.0	183.3	186.7	199.9	103.9	78.3	98.7	87.7	86.7	91.1
9	EH-2941	241.1	175.0	212.7	168.3	150.0	189.4	92.9	85.0	98.7	82.0	68.3	85.4
10	EH-2603	217.5	180.0	190.3	173.3	161.7	184.6	73.6	83.3	82.7	86.3	70.0	79.2
11	EH-2408	241.1	165.0	188.7	161.0	163.3	183.8	91.3	75.0	88.0	67.7	70.0	78.4
12	EH2401	277.0	173.3	215.3	193.3	210.0	213.8	122.6	73.3	102.0	111.0	110.0	103.8
	CHECKS												
13	Pratap Makka -9	236.5	158.3	175.7	151.0	143.3	173.0	80.7	75.0	85.3	74.7	70.0	77.1
14	Pratap Maize Hybrid-3	239.9	171.7	208.0	166.7	190.0	195.2	88.5	81.7	104.3	92.0	80.0	89.3
	Loc. Mean	**233.2**	**169.9**	**190.8**	**160.1**	**165.5**	**183.9**	**83.3**	**77.9**	**89.1**	**76.4**	**75.1**	**80.4**
	C.D. (5%)	22.57	17.36	12.11	21.40	13.23	14.83	16.93	16.09	14.81	15.55	10.56	12.11
	C.V. (%)	5.76	6.09	3.78	7.96	4.77	6.36	12.11	12.31	9.91	12.12	8.38	11.87
	F (Prob)	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00

TABLE No. 31 **PERFORMANCE OF EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSAWARA, CHHINDWARA, UDAIPUR IN TRIAL No. TR ZN 502 ZONE 5 DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE AMBI	R	BANS	R	CHHI	R	UDAI	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	WH-1008	5469	8	4896	18	5428	23	4491	19	5071	18	5071	18
2	WH-2212	6827	4	5264	14	7531	6	4498	18	6030	10	6030	10
3	WH-2213	3125	26	4591	25	5089	27	2939	28	3936	28	3936	28
4	WH-2214	4662	15	5678	4	5713	18	4204	22	5064	19	5064	19
5	WH-2215	5164	11	5511	6	6220	15	3870	24	5191	17	5191	17
6	WH-2216	3825	20	4813	19	5257	26	3901	23	4449	24	4449	24
7	WH-2217	3873	19	4754	23	5621	20	3293	26	4385	25	4385	25
8	WH-2227	3266	25	5276	11	4767	28	3206	27	4129	26	4129	26
9	IAHM-2015-85	7579	2	5276	12	7022	11	6229	7	6526	2	6526	2
10	IAHM-2015-52	7564	3	5415	7	8108	3	4633	17	6430	3	6430	3
11	IAHM-2015-45	8280	1	4270	27	7302	7	4432	21	6071	9	6071	9
12	H-1001	3022	27	4471	26	5318	25	3629	25	4110	27	4110	27
13	EH2941	5362	9	5706	3	7603	5	6937	5	6402	4	6402	4
14	EH2942	6615	5	5063	17	7664	4	5207	13	6137	6	6137	6
15	EH2943	3797	21	4035	28	5628	19	4462	20	4481	23	4481	23
16	EH2944	3751	23	5268	13	5504	21	5021	14	4886	21	4886	21
17	EH2870	4278	18	5393	8	7259	8	7480	2	6103	7	6103	7
18	EH2588	4927	13	5311	10	7215	9	6064	9	5879	13	5879	13
19	EH2438	6439	7	5573	5	8669	2	4802	15	6371	5	6371	5
20	EH2872	1392	28	4685	24	5840	17	6267	6	4546	22	4546	22
21	EH2898	5044	12	5387	9	7003	12	6941	4	6094	8	6094	8
22	EH2621	4279	17	5090	16	7060	10	4754	16	5296	16	5296	16
23	EH2646	3550	24	5729	2	6906	13	7420	3	5901	12	5901	12
24	EH2876	3774	22	5802	1	6561	14	7565	1	5925	11	5925	11
25	EH2654	5338	10	4778	21	5458	22	5994	11	5392	15	5392	15
26	EH2658	4301	16	4781	20	5420	24	5263	12	4941	20	4941	20
	CHECKS												
27	Pratap Maize Hybrid -3	6577	6	5253	15	9056	1	6076	8	6741	1	6741	1
28	Pratap Makka-9	4822	14	4754	22	6057	16	6047	10	5420	14	5420	14
	Location Mean	**4889**		**5101**		**6510**		**5201**		**5425**		**5425**	
	C.D. (5%)	667		835		1040		314		714		714	
	C.V. (%)	8.33		10		9.76		3.68		-		-	
	F (Prob)	0		0.002		0		0					
	Plot Size	6		4.8		6		4.8		-		-	
	AGRONOMY DATA												
	Sowing Date	14-07		6-07		18-07		2-07		-		-	
	Harvest Date	-		21-10		3-12		23-10		-		-	
	Irrigation Nos	-		-		-		1		-		-	
	Ferilizer Applied N	120		150		120		120		-		-	
	Ferilizer Applied P	60		80		60		90		-		-	
	Ferilizer Applied K	40		-		40		-		-		-	

TABLE No. 31 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Pratap Maize Hybrid -3								CWZ(ZN 5)		OV'L	
		AMBI	R	BANS	R	CHHI	R	UDAI	R	MEAN	R	MEAN	R
1	WH-1008	-		-		-		-		-		-	
2	WH-2212	3.8		0.2		-		-		-		-	
3	WH-2213	-		-		-		-		-		-	
4	WH-2214	-		8.1		-		-		-		-	
5	WH-2215	-		4.9		-		-		-		-	
6	WH-2216	-		-		-		-		-		-	
7	WH-2217	-		-		-		-		-		-	
8	WH-2227	-		0.4		-		-		-		-	
9	IAHM-2015-85	15.2		0.4		-		2.5		-		-	
10	IAHM-2015-52	15		3.1		-		-		-		-	
11	IAHM-2015-45	25.9		-		-		-		-		-	
12	H-1001	-		-		-		-		-		-	
13	EH2941	-		8.6		-		14.2		-		-	
14	EH2942	0.6		-		-		-		-		-	
15	EH2943	-		-		-		-		-		-	
16	EH2944	-		0.3		-		-		-		-	
17	EH2870	-		2.7		-		23.1		-		-	
18	EH2588	-		1.1		-		-		-		-	
19	EH2438	-		6.1		-		-		-		-	
20	EH2872	-		-		-		3.1		-		-	
21	EH2898	-		2.6		-		14.2		-		-	
22	EH2621	-		-		-		-		-		-	
23	EH2646	-		9.1		-		22.1		-		-	
24	EH2876	-		10.5		-		24.5		-		-	
25	EH2654	-		-		-		-		-		-	
26	EH2658	-		-		-		-		-		-	
	CHECKS												
27	Pratap Maize Hybrid -3	-		-		-		-		-		-	
28	Pratap Makka-9	-		-		-		-		-		-	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Pratap Makka-9								CWZ(ZN 5)		OV'L	
		AMBI	R	BANS	R	CHHI	R	UDAI	R	MEAN	R	MEAN	R
1	WH-1008	13.4		3		-		-		-		-	
2	WH-2212	41.6		10.7		24.3		-		11.2		11.2	
3	WH-2213	-		-		-		-		-		-	
4	WH-2214	-		19.4		-		-		-		-	
5	WH-2215	7.1		15.9		2.7		-		-		-	
6	WH-2216	-		1.2		-		-		-		-	
7	WH-2217	-		-		-		-		-		-	
8	WH-2227	-		11		-		-		-		-	
9	IAHM-2015-85	57.2		11		15.9		3		20.4		20.4	
10	IAHM-2015-52	56.9		13.9		33.9		-		18.6		18.6	
11	IAHM-2015-45	71.7		-		20.6		-		12		12	
12	H-1001	-		-		-		-		-		-	
13	EH2941	11.2		20		25.5		14.7		18.1		18.1	
14	EH2942	37.2		6.5		26.5		-		13.2		13.2	
15	EH2943	-		-		-		-		-		-	
16	EH2944	-		10.8		-		-		-		-	
17	EH2870	-		13.4		19.8		23.7		12.6		12.6	
18	EH2588	2.2		11.7		19.1		0.3		8.5		8.5	
19	EH2438	33.5		17.2		43.1		-		17.5		17.5	
20	EH2872	-		-		-		3.6		-		-	
21	EH2898	4.6		13.3		15.6		14.8		12.4		12.4	
22	EH2621	-		7.1		16.5		-		-		-	
23	EH2646	-		20.5		14		22.7		8.9		8.9	
24	EH2876	-		22		8.3		25.1		9.3		9.3	
25	EH2654	10.7		0.5		-		-		-		-	
26	EH2658	-		0.6		-		-		-		-	
	CHECKS												
27	Pratap Maize Hybrid -3	36.4		10.5		49.5		0.5		24.4		24.4	
28	Pratap Makka-9	-		-		-		-		-		-	

TABLE No. 31 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % AMBI	BANS	CHHI	UDAI	CWZ ZN 5 Mean	MOISTURE % AT HARVEST AMBI	BANS	CHHI	UDAI	CWZ ZN 5 Mean	STAND AT HARVEST ('000/ha) AMBI	BANS	CHHI	UDAI	CWZ ZN 5 Mean
1	WH-1008	79.4	76.6	82.4	82.7	80.3	16.3	17.9	12.9	22.7	17.5	48.3	61.8	52.8	63.9	56.7
2	WH-2212	78.1	74.2	88.0	82.7	80.7	15.1	16.6	16.8	22.6	17.8	57.8	63.2	59.4	63.9	61.1
3	WH-2213	77.0	75.9	87.7	82.9	80.9	16.1	18.1	13.3	22.5	17.5	38.3	61.8	39.4	63.9	50.9
4	WH-2214	78.7	76.5	85.0	83.1	80.8	16.0	16.9	11.8	22.6	16.8	49.4	60.4	64.4	63.9	59.5
5	WH-2215	79.1	75.9	85.0	83.3	80.8	16.0	16.9	12.4	23.1	17.1	52.8	63.2	66.7	63.9	61.6
6	WH-2216	77.2	76.4	82.0	82.9	79.6	13.9	16.8	12.2	23.2	16.5	46.7	59.7	63.3	63.9	58.4
7	WH-2217	78.7	76.7	83.5	82.9	80.4	15.3	17.2	14.9	22.8	17.6	45.0	61.1	65.0	63.9	58.8
8	WH-2227	76.4	76.6	87.1	82.8	80.7	13.8	16.6	12.8	22.3	16.4	42.8	63.2	65.6	63.9	58.9
9	IAHM-2015-85	78.3	76.3	87.4	83.1	81.3	15.3	16.7	13.5	22.9	17.1	56.7	64.6	60.0	63.9	61.3
10	IAHM-2015-52	80.1	77.5	87.7	82.8	82.0	17.9	16.3	13.2	23.0	17.6	59.4	59.7	65.0	63.9	62.0
11	IAHM-2015-45	77.5	74.8	81.2	82.5	79.0	13.8	16.9	14.0	22.7	16.8	65.6	63.9	65.6	63.9	64.7
12	H-1001	77.2	75.0	83.9	82.9	79.7	14.4	16.6	13.0	22.3	16.6	38.3	62.5	41.7	63.9	51.6
13	EH2941	77.9	76.5	86.1	82.9	80.8	13.6	17.2	14.0	23.0	16.9	50.0	63.2	59.4	63.9	59.1
14	EH2942	78.1	73.9	87.6	82.5	80.5	17.0	16.9	13.3	22.8	17.5	57.8	63.9	66.7	63.9	63.1
15	EH2943	77.2	75.5	82.2	82.6	79.4	14.5	17.2	13.7	23.2	17.1	48.9	60.4	60.0	63.2	58.1
16	EH2944	77.3	76.4	88.6	83.0	81.3	15.6	16.4	13.3	22.0	16.8	50.0	63.9	56.1	63.2	58.3
17	EH2870	77.5	75.0	89.3	83.1	81.2	13.9	16.4	16.8	23.0	17.5	53.3	59.7	48.3	63.9	56.3
18	EH2588	77.5	73.8	83.2	82.9	79.3	15.3	16.4	13.0	22.8	16.9	51.7	63.9	59.4	63.2	59.5
19	EH2438	78.4	74.9	86.3	82.9	80.6	15.1	17.2	13.5	22.9	17.2	54.4	63.9	57.8	63.9	60.0
20	EH2872	78.2	75.3	88.4	82.6	81.2	14.8	17.1	16.1	22.7	17.6	35.0	61.1	46.7	63.9	51.7
21	EH2898	76.3	76.3	87.9	82.8	80.8	14.2	17.3	14.2	22.8	17.1	49.4	63.2	58.3	63.2	58.5
22	EH2621	78.6	75.1	83.0	83.1	79.9	14.9	16.4	15.6	23.0	17.5	48.9	60.4	50.6	63.9	55.9
23	EH2646	78.1	75.7	90.6	82.9	81.8	16.2	17.0	14.5	22.9	17.6	45.0	65.3	46.1	63.9	55.1
24	EH2876	78.4	76.8	81.2	82.7	79.8	16.3	17.1	14.6	22.3	17.6	48.3	60.4	47.2	64.6	55.1
25	EH2654	77.8	75.4	90.2	82.9	81.6	16.6	17.6	13.5	23.0	17.7	50.6	61.1	40.0	63.9	53.9
26	EH2658	78.1	75.7	83.6	82.9	80.1	15.7	17.1	12.4	23.1	17.0	49.4	63.9	47.2	63.9	56.1
	CHECKS															
27	Pratap Maize Hybrid -3	77.7	75.4	89.9	83.1	81.5	16.8	16.9	14.9	22.8	17.8	56.1	63.9	62.8	63.9	61.7
28	Pratap Makka-9	76.9	74.2	88.8	82.6	80.6	14.2	16.6	13.7	22.8	16.8	48.3	65.3	50.6	63.9	57.0
	Loc. Mean	**77.9**	**75.6**	**86.0**	**82.8**	**80.6**	**15.3**	**16.9**	**13.9**	**22.8**	**17.2**	**49.9**	**62.5**	**55.9**	**63.8**	**58.0**
	C.D. (5%)	2.33	1.61	3.73	0.63	2.26	1.19	0.66	1.32	0.52	1.30	4.17	5.58	10.36	1.92	7.00
	C.V. (%)	1.83	1.30	2.65	0.46	2.00	4.74	2.38	5.82	1.39	5.37	5.11	5.46	11.31	1.84	8.58
	F (Prob)	0.38	0.00	0.00	0.86	0.57	0.00	0.00	0.00	0.00	0.76	0.00	0.74	0.00	1.00	0.01

TABLE No. 31 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED				CWZ ZN 5	DAYS TO 50% SILKING				CWZ ZN 5	DAYS TO 75% DRY HUSK				CWZ ZN 5
		AMBI	BANS	CHHI	UDAI	Mean	AMBI	BANS	CHHI	UDAI	Mean	AMBI	BANS	CHHI	UDAI	Mean
1	WH-1008	46.7	48.0	55.7	52.3	50.7	49.3	51.0	55.7	54.0	52.5	97.7	77.7	92.7	86.3	88.6
2	WH-2212	47.7	47.0	58.7	52.3	51.4	49.7	50.0	60.0	54.3	53.5	92.7	78.3	97.3	85.3	88.4
3	WH-2213	47.7	47.7	57.7	52.3	51.3	50.0	50.7	57.7	54.3	53.2	93.3	78.3	93.7	86.7	88.0
4	WH-2214	47.7	49.0	57.0	52.7	51.6	50.3	52.0	58.0	54.7	53.8	84.7	80.7	91.7	88.3	86.3
5	WH-2215	47.7	48.3	57.0	54.3	51.8	50.3	51.3	57.3	56.0	53.8	92.3	78.0	95.7	86.3	88.1
6	WH-2216	45.7	48.3	56.3	52.7	50.8	48.0	51.3	57.0	54.7	52.8	83.0	80.0	90.3	88.0	85.3
7	WH-2217	44.7	48.3	54.3	52.3	49.9	49.3	51.3	55.7	54.3	52.7	83.0	79.3	91.3	87.0	85.2
8	WH-2227	45.7	48.7	54.7	52.3	50.3	48.7	51.7	55.3	54.0	52.4	82.3	79.7	92.3	87.3	85.4
9	IAHM-2015-85	53.7	48.3	60.3	54.3	54.2	56.0	51.3	61.0	56.7	56.3	93.7	78.7	98.3	87.3	89.5
10	IAHM-2015-52	48.7	46.7	59.7	52.3	51.8	51.0	49.7	60.0	54.3	53.8	93.3	79.7	97.3	85.3	88.9
11	IAHM-2015-45	52.7	48.7	60.3	59.7	55.3	55.0	51.7	60.7	61.7	57.3	87.0	80.3	97.7	94.7	89.9
12	H-1001	52.7	47.7	62.3	64.3	56.8	55.3	50.7	60.0	66.3	58.1	93.7	79.3	98.7	97.7	92.3
13	EH2941	51.7	45.3	59.7	52.3	52.3	54.7	48.3	60.3	54.3	54.4	93.3	78.3	96.7	86.7	88.8
14	EH2942	52.7	48.3	59.7	53.3	53.5	55.0	51.3	60.0	55.3	55.4	93.3	80.0	93.3	85.7	88.1
15	EH2943	56.3	48.7	60.3	63.3	57.2	58.7	51.7	61.3	65.3	59.3	97.7	81.0	97.0	95.0	92.7
16	EH2944	50.7	48.0	60.3	63.7	55.7	52.7	51.0	61.3	65.7	57.7	93.3	79.0	96.0	96.7	91.3
17	EH2870	55.3	47.7	60.0	59.3	55.6	57.3	50.7	60.3	61.3	57.4	93.3	78.0	97.3	90.7	89.8
18	EH2588	48.7	48.0	59.7	52.3	52.2	51.0	51.0	60.3	54.3	54.2	93.7	80.7	96.7	85.3	89.1
19	EH2438	51.7	49.0	60.0	64.7	56.3	54.3	52.0	61.0	66.0	58.3	87.0	80.7	98.7	95.3	90.4
20	EH2872	50.7	47.3	60.0	61.7	54.9	53.0	50.3	60.7	63.7	56.9	97.0	79.0	96.0	91.0	90.8
21	EH2898	55.3	47.3	60.3	59.7	55.7	57.7	50.3	61.3	61.7	57.8	93.7	79.7	95.3	90.7	89.8
22	EH2621	50.7	48.3	60.0	60.3	54.8	53.3	51.3	61.0	62.3	57.0	96.7	79.0	97.7	89.7	90.7
23	EH2646	55.7	47.7	60.0	60.3	55.9	58.0	50.7	60.7	62.3	57.9	93.0	79.3	98.3	89.0	89.9
24	EH2876	50.7	48.7	59.7	60.0	54.8	53.7	51.7	60.7	62.0	57.0	92.7	81.7	97.7	94.0	91.5
25	EH2654	48.7	48.0	60.7	52.7	52.5	51.3	51.0	60.7	54.7	54.4	93.3	78.3	98.3	88.7	89.7
26	EH2658	48.7	47.7	58.0	52.3	51.7	51.0	50.7	59.7	54.3	53.9	93.3	81.7	93.7	88.3	89.3
	CHECKS															
27	Pratap Maize Hybrid -3	53.7	46.7	59.7	54.0	53.5	56.0	49.7	60.3	56.0	55.5	93.3	78.3	94.0	90.7	89.1
28	Pratap Makka-9	50.7	48.0	60.3	52.3	52.8	52.7	51.0	60.3	54.3	54.6	93.3	78.7	96.3	85.3	88.4
	Loc. Mean	**50.5**	**47.9**	**59.0**	**56.2**	**53.4**	**53.0**	**50.9**	**59.6**	**58.2**	**55.4**	**92.0**	**79.4**	**95.7**	**89.4**	**89.1**
	C.D. (5%)	0.30	2.22	1.42	1.00	3.38	1.44	2.22	2.34	1.05	3.31	7.34	4.83	1.55	1.34	4.07
	C.V. (%)	0.36	2.83	1.47	1.08	4.50	1.66	2.67	2.40	1.10	4.25	4.88	3.71	0.99	0.92	3.25
	F (Prob)	0.00	0.44	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.03

TABLE No. 31 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) AMBI	BANS	CHHI	UDAI	CWZ ZN 5 Mean	EAR HEIGHT(cm) AMBI	BANS	CHHI	UDAI	CWZ ZN 5 Mean
1	WH-1008	226.4	166.7	179.3	153.3	181.4	68.1	81.7	79.7	70.0	74.9
2	WH-2212	204.5	170.0	196.7	180.0	187.8	76.5	76.7	93.0	83.3	82.4
3	WH-2213	206.4	151.7	173.3	160.0	172.9	65.5	75.0	72.7	76.7	72.5
4	WH-2214	218.9	166.7	158.7	153.3	174.4	74.6	70.0	74.0	83.3	75.5
5	WH-2215	219.5	171.7	159.7	153.3	176.0	70.3	80.0	69.3	76.7	74.1
6	WH-2216	250.4	160.0	152.0	143.3	176.4	70.6	73.3	66.0	66.7	69.2
7	WH-2217	227.7	166.7	159.7	170.0	181.0	62.5	76.7	69.0	71.7	70.0
8	WH-2227	218.5	161.7	147.7	133.3	165.3	60.1	78.3	66.0	76.7	70.3
9	IAHM-2015-85	228.5	166.7	185.3	150.0	182.6	80.7	75.0	83.0	73.3	78.0
10	IAHM-2015-52	214.3	170.0	189.7	163.3	184.3	82.2	90.0	90.0	70.0	83.1
11	IAHM-2015-45	232.1	161.7	181.7	190.0	191.4	74.6	83.3	73.7	70.0	75.4
12	H-1001	222.0	158.3	183.0	120.0	170.8	81.1	75.0	79.0	60.0	73.8
13	EH2941	219.9	170.0	195.3	170.0	188.8	85.3	75.0	84.7	60.0	76.2
14	EH2942	223.8	180.0	191.3	180.0	193.8	84.6	85.0	87.0	80.0	84.2
15	EH2943	227.1	156.7	188.3	170.0	185.5	81.0	75.0	85.7	70.0	77.9
16	EH2944	217.3	168.3	177.3	163.3	181.6	76.3	83.3	82.7	56.7	74.7
17	EH2870	217.8	173.3	195.3	163.3	187.5	87.4	73.3	93.3	70.0	81.0
18	EH2588	216.7	161.7	186.7	181.7	186.7	74.3	75.0	84.3	81.7	78.8
19	EH2438	222.5	165.0	210.3	191.7	197.4	80.8	80.0	96.0	80.0	84.2
20	EH2872	221.3	170.0	182.7	161.7	183.9	77.5	82.3	84.7	61.7	76.5
21	EH2898	230.4	166.7	205.0	186.7	197.2	83.8	78.3	97.7	85.0	86.2
22	EH2621	205.4	163.3	176.0	150.0	173.7	79.2	81.7	73.0	70.0	76.0
23	EH2646	221.4	168.3	198.3	173.3	190.4	84.7	83.3	88.3	83.3	84.9
24	EH2876	220.3	156.7	202.7	173.3	188.2	91.3	78.3	95.0	80.0	86.2
25	EH2654	230.9	170.0	180.3	150.0	182.8	82.1	88.3	78.0	76.7	81.3
26	EH2658	211.9	171.7	180.3	153.3	179.3	65.5	75.0	81.3	61.7	70.9
	CHECKS										
27	Pratap Maize Hybrid -3	220.5	185.0	212.0	191.7	202.3	99.7	83.3	103.0	80.0	91.5
28	Pratap Makka-9	208.7	168.3	166.7	163.3	176.8	85.6	75.0	75.3	70.0	76.5
	Loc. Mean	**220.9**	**166.7**	**182.7**	**164.0**	**183.6**	**78.1**	**78.8**	**82.3**	**73.0**	**78.1**
	C.D. (5%)	26.05	25.35	11.68	7.76	16.81	10.41	13.83	13.49	9.74	9.59
	C.V. (%)	7.21	9.29	3.90	2.89	6.51	8.15	10.72	10.01	8.15	8.73
	F (Prob)	0.42	0.92	0.00	0.00	0.01	0.00	0.51	0.00	0.00	0.00

BR-538

TABLE No. 32 **PERFORMANCE OF EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSWARA, CHHINDWARA, GODHRA, UDAIPUR IN TRIAL No. TR ZN 503 ZONE 5 DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE AMBI	R	BANS	R	CHHI	R	GODH	R	UDAI	R	CWZ ZN 5 MEAN	R	OV'L MEAN	R
1	WH-3168	7752	25	12373	2	16799	21	3440	5	7336	17	9540	21	9540	21
2	WH-3169	8247	24	10481	15	12941	24	2398	21	7505	15	8314	25	8314	25
3	WH-3170	9407	22	10475	16	17106	20	2564	19	7576	13	9426	23	9426	23
4	WH-3171	10966	19	10750	13	15913	23	2690	17	7466	16	9557	20	9557	20
5	H-1002	11995	13	11142	10	19635	12	2213	23	7944	10	10586	15	10586	15
6	GYH-1304	13454	8	10270	18	20182	11	3255	6	7239	18	10880	11	10880	11
7	GYH-0702	9778	21	10090	20	11232	25	2726	16	7748	12	8315	24	8315	24
8	GYH-1203	12960	9	10062	21	20379	9	3132	8	8487	5	11004	9	11004	9
9	GYH-0953	14168	7	8946	25	18537	15	3131	9	8649	3	10686	14	10686	14
10	GWH-1201	9079	23	11073	11	17156	19	2401	20	8237	7	9589	19	9589	19
11	EH-2930	10007	20	12057	3	24294	4	3067	10	7531	14	11391	7	11391	7
12	EH-2931	11677	14	9714	22	20558	8	2818	15	5562	23	10066	17	10066	17
13	EH-2932	11399	17	11472	8	17958	17	1927	25	4923	25	9536	22	9536	22
14	EH-2933	11417	16	10254	19	20286	10	2686	18	6264	21	10181	16	10181	16
15	EH-2934	11603	15	9674	23	18030	16	2862	13	8059	9	10046	18	10046	18
16	EH-2878	17689	3	12428	1	21159	7	2226	22	6058	22	11912	5	11912	5
17	EH-2936	17017	4	11646	7	26810	2	3018	11	6558	20	13010	2	13010	2
18	EH-2937	14551	6	10591	14	17504	18	3139	7	7937	11	10744	13	10744	13
19	EH-2935	12411	11	10297	17	23715	5	5081	1	8386	6	11978	4	11978	4
20	EH-2891	12574	10	11660	6	19093	14	3677	4	8095	8	11020	8	11020	8
21	EH-2583	12340	12	11172	9	24465	3	2828	14	8659	2	11893	6	11893	6
22	IAHM-2015-89	11113	18	9145	24	26863	1	2058	24	5348	24	10906	10	10906	10
	CHECKS														
23	Pratap Makka-3	16462	5	12001	4	16045	22	2917	12	6679	19	10821	12	10821	12
24	Pratap Maize Hybrid -3	21196	1	11066	12	22306	6	3929	3	8495	4	13399	1	13399	1
25	Pratap Makka-9	18104	2	11708	5	19240	13	4155	2	9055	1	12452	3	12452	3
	Location Mean	**12695**		**10822**		**19528**		**2973**		**7432**		**10690**		**10690**	
	C.D. (5%)	3703		2727		5428		1078		1869		2961		2961	
	C.V. (%)	14.1		12.18		13.44		17.53		12.16		-		-	
	F (Prob)	0		0.622		0		0.001		0.003					
	Plot Size	2		2		2		4.8		4.2		-		-	
	AGRONOMY DATA														
	Sowing Date	4-.5		4-.5		4-.8		4-.2		-		-		-	
	Harvest Date	4-.2		15-07		14-10		5-07		28-07		-		-	
	Irrigation Nos	607		507		107		-		812		-		-	
	Ferilizer Applied N	102		2410		1111		2110		2410		-		-	
	Ferilizer Applied P	511		-		-		-		-		-		-	
	Ferilizer Applied K	-		-		-		-		-		-		-	

TABLE No. 32 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Pratap Makka-3												GRAIN YIELD % SUPERIORITY OVER THE Pratap Maize Hybrid -3											
		AMBI	R	BANS	R	CHHI	R	GODH	R	UDAI	R	CWZ(ZN 5) MEAN	R	OV'L MEAN	R	AMBI	R	BANS	R	CHHI	R	GODH	R	UDAI	R	CWZ(ZN 5) MEAN	R	OV'L MEAN	R
1	WH-3168	-		3.1		4.7		17.9		9.8		-		-		-		11.8		-		-		-		-		-	
2	WH-3169	-		-		-		-		12.4		-		-		-		-		-		-		-		-		-	
3	WH-3170	-		-		6.6		-		13.4		-		-		-		-		-		-		-		-		-	
4	WH-3171	-		-		-		-		11.8		-		-		-		-		-		-		-		-		-	
5	H-1002	-		-		22.4		-		18.9		-		-		-		0.7		-		-		-		-		-	
6	GYH-1304	-		-		25.8		11.6		8.4		0.5		0.5		-		-		-		-		-		-		-	
7	GYH-0702	-		-		-		-		16		-		-		-		-		-		-		-		-		-	
8	GYH-1203	-		-		27		7.4		27.1		1.7		1.7		-		-		-		-		-		-		-	
9	GYH-0953	-		-		15.5		7.4		29.5		-		-		-		-		-		-		1.8		-		-	
10	GWH-1201	-		-		6.9		-		23.3		-		-		-		0.1		-		-		-		-		-	
11	EH-2930	-		0.5		51.4		5.1		12.7		5.3		5.3		-		9		8.9		-		-		-		-	
12	EH-2931	-		-		28.1		-		-		-		-		-		-		-		-		-		-		-	
13	EH-2932	-		-		11.9		-		-		-		-		-		3.7		-		-		-		-		-	
14	EH-2933	-		-		26.4		-		-		-		-		-		-		-		-		-		-		-	
15	EH-2934	-		-		12.4		-		20.7		-		-		-		-		-		-		-		-		-	
16	EH-2878	7.5		3.6		31.9		-		-		10.1		10.1		-		12.3		-		-		-		-		-	
17	EH-2936	3.4		-		67.1		3.5		-		20.2		20.2		-		5.2		20.2		-		-		-		-	
18	EH-2937	-		-		9.1		7.6		18.8		-		-		-		-		-		-		-		-		-	
19	EH-2935	-		-		47.8		74.2		25.5		10.7		10.7		-		-		6.3		29.3		-		-		-	
20	EH-2891	-		-		19		26.1		21.2		1.8		1.8		-		5.4		-		-		-		-		-	
21	EH-2583	-		-		52.5		-		29.6		9.9		9.9		-		1		9.7		-		1.9		-		-	
22	IAHM-2015-89	-		-		67.4		-		-		0.8		0.8		-		-		20.4		-		-		-		-	
	CHECKS																												
23	Pratap Makka-3	-		-		-		-		-		-		-		-		8.5		-		-		-		-		-	
24	Pratap Maize Hybrid -3	28.8		-		39		34.7		27.2		23.8		23.8		-		-		-		-		-		-		-	
25	Pratap Makka-9	10		-		19.9		42.4		35.6		15.1		15.1		-		5.8		-		5.7		6.6		-		-	

TABLE No. 32 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Pratap Makka-9													
		AMBI	R	BANS	R	CHHI	R	GODH	R	UDAI	R	CWZ(ZN 5) MEAN	R	OV'L MEAN	R
1	WH-3168	-		5.7		-		-		-		-		-	
2	WH-3169	-		-		-		-		-		-		-	
3	WH-3170	-		-		-		-		-		-		-	
4	WH-3171	-		-		-		-		-		-		-	
5	H-1002	-		-		2.1		-		-		-		-	
6	GYH-1304	-		-		4.9		-		-		-		-	
7	GYH-0702	-		-		-		-		-		-		-	
8	GYH-1203	-		-		5.9		-		-		-		-	
9	GYH-0953	-		-		-		-		-		-		-	
10	GWH-1201	-		-		-		-		-		-		-	
11	EH-2930	-		3		26.3		-		-		-		-	
12	EH-2931	-		-		6.8		-		-		-		-	
13	EH-2932	-		-		-		-		-		-		-	
14	EH-2933	-		-		5.4		-		-		-		-	
15	EH-2934	-		-		-		-		-		-		-	
16	EH-2878	-		6.1		10		-		-		-		-	
17	EH-2936	-		-		39.3		-		-		4.5		4.5	
18	EH-2937	-		-		-		-		-		-		-	
19	EH-2935	-		-		23.3		22.3		-		-		-	
20	EH-2891	-		-		-		-		-		-		-	
21	EH-2583	-		-		27.2		-		-		-		-	
22	IAHM-2015-89	-		-		39.6		-		-		-		-	
	CHECKS														
23	Pratap Makka-3	-		2.5		-		-		-		-		-	
24	Pratap Maize Hybrid -3	17.1		-		15.9		-		-		7.6		7.6	
25	Pratap Makka-9	-		-		-		-		-		-		-	

TABLE No. 32 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING %					CWZ ZN 5	MOISTURE % AT HARVEST					CWZ ZN 5	STAND AT HARVEST ('000/ha)					CWZ ZN 5
		AMBI	BANS	CHHI	GODH	UDAI	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean
1	WH-3168	75.6	76.2	86.9	86.7	80.5	81.2	15.0	17.0	12.4	14.8	15.5	14.9	120.0	150.0	175.0	74.0	70.2	117.8
2	WH-3169	78.6	76.3	85.1	69.0	80.9	78.0	15.0	16.9	12.2	14.6	16.1	15.0	130.0	147.5	182.5	65.6	71.4	119.4
3	WH-3170	77.6	74.0	87.3	78.4	81.0	79.7	15.9	16.3	13.5	13.9	16.0	15.1	147.5	150.0	187.5	59.4	69.0	122.7
4	WH-3171	79.0	73.1	87.3	83.1	80.5	80.6	17.2	16.5	12.7	14.8	15.1	15.2	165.0	152.5	175.0	56.3	71.4	124.0
5	H-1002	77.8	72.3	89.9	64.0	81.1	77.0	16.8	16.3	13.6	14.5	15.3	15.3	160.0	145.0	185.0	56.3	71.4	123.5
6	GYH-1304	79.7	76.8	82.7	80.5	81.0	80.1	16.8	15.8	15.4	15.4	15.6	15.8	180.0	150.0	200.0	65.6	71.4	133.4
7	GYH-0702	76.5	73.3	68.3	79.4	80.5	75.6	14.8	16.4	11.5	15.1	16.7	14.9	145.0	140.0	187.5	67.7	69.0	121.9
8	GYH-1203	77.4	75.4	87.1	84.0	80.8	80.9	15.1	17.2	11.6	15.5	15.3	14.9	167.5	142.5	197.5	64.6	71.4	128.7
9	GYH-0953	76.1	70.8	87.2	76.9	80.0	78.2	15.5	15.6	12.0	14.8	16.1	14.8	170.0	140.0	192.5	70.8	72.6	129.2
10	GWH-1201	77.1	75.9	86.9	82.7	80.5	80.6	16.6	16.6	14.9	15.4	16.5	16.0	150.0	155.0	185.0	76.0	70.2	127.3
11	EH-2930	78.9	75.8	84.8	81.5	81.3	80.4	17.0	16.8	13.1	15.3	15.7	15.6	155.0	147.5	197.5	77.1	70.2	129.5
12	EH-2931	77.2	75.7	86.2	61.7	81.2	76.4	15.6	16.1	12.3	15.3	16.4	15.1	155.0	142.5	152.5	80.2	66.7	119.4
13	EH-2932	76.8	75.9	80.2	63.2	80.0	75.2	15.8	16.4	11.2	14.2	15.5	14.6	145.0	147.5	142.5	56.3	71.4	112.5
14	EH-2933	78.0	74.3	87.5	81.7	79.7	80.2	15.6	16.8	11.5	15.6	15.7	15.0	152.5	150.0	137.5	61.5	73.8	115.1
15	EH-2934	78.4	72.3	86.0	80.2	80.4	79.5	16.1	15.6	12.1	16.8	15.8	15.3	145.0	140.0	140.0	76.0	72.6	114.7
16	EH-2878	79.4	75.6	84.7	80.0	79.5	79.8	17.7	16.7	14.2	15.9	16.3	16.1	177.5	155.0	177.5	71.9	75.0	131.4
17	EH-2936	76.4	76.7	86.7	87.1	79.5	81.3	14.9	17.4	13.1	15.1	15.4	15.2	177.5	125.0	200.0	66.7	73.8	128.6
18	EH-2937	77.4	72.4	88.4	83.7	81.1	80.6	14.7	15.7	12.0	15.0	15.3	14.5	147.5	137.5	175.0	74.0	71.4	121.1
19	EH-2935	76.9	73.6	88.4	83.9	81.0	80.8	15.6	16.3	11.9	14.8	16.0	14.9	147.5	145.0	197.5	57.3	71.4	123.7
20	EH-2891	75.8	75.4	86.3	85.2	80.8	80.7	14.5	17.2	11.2	15.2	15.8	14.8	155.0	140.0	152.5	52.1	70.2	114.0
21	EH-2583	77.8	76.0	89.2	88.5	81.1	82.5	14.4	16.0	12.9	15.9	15.3	14.9	152.5	137.5	175.0	50.0	72.6	117.5
22	IAHM-2015-89	77.6	74.3	89.2	82.5	80.3	80.8	16.1	16.5	12.4	15.2	17.3	15.5	137.5	142.5	187.5	42.7	63.1	114.7
	CHECKS																		
23	Pratap Makka-3	77.0	77.6	84.5	79.8	80.5	79.9	16.2	16.8	13.8	14.9	16.4	15.6	180.0	147.5	190.0	58.3	65.5	128.3
24	Pratap Maize Hybrid -3	79.1	73.6	86.7	86.9	81.3	81.5	17.1	16.2	14.1	14.2	15.7	15.5	202.5	140.0	167.5	74.0	72.6	131.3
25	Pratap Makka-9	78.8	72.0	86.5	85.8	81.2	80.8	16.9	16.2	12.5	14.1	15.3	15.0	190.0	142.5	135.0	65.6	70.2	120.7
	Loc. Mean	**77.6**	**74.6**	**85.7**	**79.8**	**80.6**	**79.7**	**15.9**	**16.4**	**12.7**	**15.0**	**15.8**	**15.2**	**158.2**	**144.5**	**175.8**	**64.8**	**70.8**	**122.8**
	C.D. (5%)	2.11	2.00	4.02	13.30	0.81	4.90	1.78	1.19	3.30	0.86	0.62	0.94	26.15	19.32	31.83	13.31	5.11	17.11
	C.V. (%)	1.31	1.30	2.27	8.07	0.49	4.90	5.45	3.52	12.57	2.76	1.91	4.96	8.01	6.48	8.77	9.96	3.50	11.10
	F (Prob)	0.02	0.00	0.00	0.01	0.00	0.28	0.02	0.18	0.50	0.00	0.00	0.09	0.00	0.51	0.00	0.00	0.03	0.43

TABLE No. 32 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED					CWZ ZN 5
		AMBI	BANS	CHHI	GODH	UDAI	Mean
1	WH-3168	44.0	41.5	53.0	58.5	51.5	49.7
2	WH-3169	43.5	41.5	53.5	58.5	50.5	49.5
3	WH-3170	45.0	40.0	52.0	56.5	50.0	48.7
4	WH-3171	48.0	42.5	53.5	59.5	47.5	50.2
5	H-1002	45.0	41.5	57.0	59.5	48.5	50.3
6	GYH-1304	44.0	41.5	55.0	57.5	48.5	49.3
7	GYH-0702	47.0	41.0	56.0	61.0	50.0	51.0
8	GYH-1203	44.5	40.5	56.0	60.0	50.0	50.2
9	GYH-0953	44.0	41.0	52.0	58.0	50.5	49.1
10	GWH-1201	42.0	42.0	52.0	58.0	49.5	48.7
11	EH-2930	44.0	41.5	56.0	60.5	50.0	50.4
12	EH-2931	48.0	40.5	55.0	65.0	49.5	51.6
13	EH-2932	45.0	42.0	58.0	58.5	49.0	50.5
14	EH-2933	43.0	41.5	56.0	58.0	50.0	49.7
15	EH-2934	43.5	41.0	55.5	55.0	49.5	48.9
16	EH-2878	45.0	41.0	56.0	61.0	50.0	50.6
17	EH-2936	45.0	41.5	57.0	61.0	50.0	50.9
18	EH-2937	47.5	42.0	57.0	60.0	49.5	51.2
19	EH-2935	51.0	42.5	56.0	67.5	50.0	53.4
20	EH-2891	48.0	40.0	58.0	65.0	49.5	52.1
21	EH-2583	47.0	40.0	56.5	64.5	49.5	51.5
22	IAHM-2015-89	47.0	41.0	58.0	61.5	51.5	51.8
	CHECKS						
23	Pratap Makka-3	47.0	42.0	55.0	62.0	51.0	51.4
24	Pratap Maize Hybrid -3	49.0	41.5	60.0	59.0	48.5	51.6
25	Pratap Makka-9	51.0	41.0	59.0	64.5	47.5	52.6
	Loc. Mean	**45.9**	**41.3**	**55.7**	**60.4**	**49.7**	**50.6**
	C.D. (5%)	3.86	2.67	2.03	6.32	1.64	2.28
	C.V. (%)	4.07	3.13	1.77	5.07	1.60	3.59
	F (Prob)	0.00	0.89	0.00	0.06	0.00	0.00

DAYS TO 50% SILKING						CWZ ZN 5
AMBI	BANS	CHHI	GODH	UDAI		Mean
46.0	44.5	53.0	60.5	52.5		51.3
46.5	44.5	54.5	60.5	52.0		51.6
47.0	43.0	52.0	58.5	51.5		50.4
51.5	45.5	54.0	61.5	50.0		52.5
47.5	44.5	58.5	61.5	49.5		52.3
46.0	44.5	56.0	59.5	50.5		51.3
49.0	44.0	54.0	63.0	52.0		52.4
46.5	43.5	57.0	62.0	51.5		52.1
46.5	44.0	52.0	60.0	52.5		51.0
44.0	45.0	53.0	60.0	50.5		50.5
46.5	44.5	56.0	62.5	51.5		52.2
50.0	43.5	56.0	67.0	50.5		53.4
47.0	45.0	58.0	60.5	51.0		52.3
45.0	44.5	56.0	60.0	51.5		51.4
46.0	44.0	55.5	57.0	51.0		50.7
47.0	44.0	58.0	63.0	53.5		53.1
47.0	44.5	57.0	63.0	52.5		52.8
50.0	45.0	59.0	62.0	51.0		53.4
53.0	45.5	56.0	69.5	51.5		55.1
50.0	43.0	58.0	67.0	51.0		53.8
49.5	43.0	58.5	66.5	51.5		53.8
49.0	44.0	59.0	63.5	52.5		53.6
50.0	45.0	56.5	64.0	52.0		53.5
51.0	44.5	60.5	61.0	50.5		53.5
53.0	44.0	60.5	66.5	49.5		54.7
48.2	**44.3**	**56.3**	**62.4**	**51.3**		**52.5**
3.94	2.67	2.13	6.32	1.86		2.36
3.96	2.92	1.83	4.91	1.76		3.57
0.00	0.89	0.00	0.06	0.02		0.00

DAYS TO 75% DRY HUSK						CWZ ZN 5
AMBI	BANS	CHHI	GODH	UDAI		Mean
82.5	69.5	87.5	91.0	83.0		82.7
83.0	70.0	85.5	91.0	82.0		82.3
83.5	71.0	86.5	93.0	81.5		83.1
84.0	71.0	87.0	93.0	82.0		83.4
83.5	69.5	90.0	93.5	83.5		84.0
83.5	71.0	87.5	92.0	83.0		83.4
87.0	69.5	87.0	93.5	85.5		84.5
84.5	70.0	89.0	94.0	84.5		84.4
83.5	70.5	86.5	93.0	84.5		83.6
82.5	70.5	85.0	91.0	84.5		82.7
87.5	71.0	88.0	92.5	84.0		84.6
92.5	69.0	91.0	95.5	82.0		86.0
83.0	70.5	90.5	90.5	85.0		83.9
82.0	70.0	90.5	92.0	84.5		83.8
82.5	70.0	88.5	89.0	85.5		83.1
86.0	69.5	89.5	92.0	85.5		84.5
84.0	71.5	88.0	93.0	83.5		84.0
85.0	70.5	89.5	93.0	82.5		84.1
92.0	71.5	88.5	95.0	83.5		86.1
91.5	69.0	88.5	95.5	83.5		85.6
90.5	71.5	90.0	95.5	82.5		86.0
90.5	69.5	91.5	93.5	84.5		85.9
88.5	70.0	87.5	96.5	83.0		85.1
87.0	70.0	91.0	91.5	81.5		84.2
87.0	69.5	91.0	98.5	81.5		85.5
85.9	**70.2**	**88.6**	**93.1**	**83.5**		**84.3**
3.34	1.64	2.07	5.95	1.86		2.42
1.88	1.13	1.13	3.10	1.08		2.29
0.00	0.07	0.00	0.44	0.00		0.04

TABLE No. 32 (Contd.)

S.No.	PEDIGREE	PLANT HEIGHT(cm) AMBI	BANS	CHHI	GODH	UDAI	CWZ ZN 5 Mean	EAR HEIGHT(cm) AMBI	BANS	CHHI	GODH	UDAI	CWZ ZN 5 Mean
1	WH-3168	183.6	152.5	160.0	169.0	175.0	168.0	62.3	77.5	66.5	64.0	87.5	73.5
2	WH-3169	195.0	162.5	150.0	167.5	162.5	167.5	60.3	72.5	63.0	64.0	80.0	69.0
3	WH-3170	198.2	165.0	145.5	157.5	175.0	168.2	64.7	75.0	61.0	59.0	85.0	71.4
4	WH-3171	180.1	152.5	157.0	144.0	162.5	159.2	61.9	67.5	62.0	60.0	82.5	68.5
5	H-1002	214.6	170.0	188.0	154.0	165.0	178.3	74.0	75.0	88.0	61.5	77.5	78.6
6	GYH-1304	182.4	165.0	157.5	142.5	177.5	165.0	49.8	77.5	66.5	51.5	80.0	68.5
7	GYH-0702	230.7	150.0	162.0	152.5	175.0	174.0	79.8	77.5	80.5	56.5	87.5	81.3
8	GYH-1203	217.1	175.0	158.5	185.0	172.5	181.6	67.7	75.0	76.0	71.5	87.5	76.6
9	GYH-0953	212.2	165.0	144.5	175.0	185.0	176.3	74.6	70.0	65.0	84.0	94.0	75.9
10	GWH-1201	188.9	142.5	182.5	157.5	172.5	168.8	66.1	75.0	75.5	59.0	84.5	75.3
11	EH-2930	220.8	165.0	179.0	145.0	175.0	177.0	66.7	77.5	91.5	60.0	86.0	80.4
12	EH-2931	204.7	165.0	180.0	182.5	172.5	180.9	71.8	67.5	84.5	86.5	77.5	75.3
13	EH-2932	213.5	155.0	186.5	152.5	177.5	177.0	68.4	72.5	92.5	67.5	82.5	79.0
14	EH-2933	199.7	180.0	175.0	130.0	182.5	173.4	67.0	82.5	80.5	55.0	82.5	78.1
15	EH-2934	220.7	162.5	165.0	172.5	187.5	181.6	66.7	80.0	80.0	75.0	90.0	79.2
16	EH-2878	226.3	165.0	183.0	161.5	182.5	183.7	85.8	80.0	80.5	62.5	92.5	84.7
17	EH-2936	244.4	155.0	186.0	152.5	175.0	182.6	90.7	72.5	92.0	57.5	85.0	85.1
18	EH-2937	224.5	150.0	147.5	167.5	167.5	171.4	74.9	65.0	63.0	58.0	88.0	72.7
19	EH-2935	244.8	172.5	146.0	160.0	182.5	181.2	92.4	80.0	88.5	61.5	92.5	88.4
20	EH-2891	220.0	180.0	184.0	147.5	182.5	182.8	73.5	75.0	82.0	51.5	85.0	78.9
21	EH-2583	199.2	157.5	198.5	165.0	162.5	176.5	68.2	70.0	100.5	69.0	82.5	80.3
22	IAHM-2015-89	225.2	147.5	187.0	150.0	175.0	176.9	74.4	72.5	80.0	56.5	87.5	78.6
	CHECKS												
23	Pratap Makka-3	225.6	162.5	182.0	147.5	170.0	177.5	78.1	85.0	81.0	55.0	80.0	81.0
24	Pratap Maize Hybrid -3	226.7	167.5	214.0	146.5	157.5	182.4	84.5	70.0	93.0	57.5	75.0	80.6
25	Pratap Makka-9	235.2	165.0	183.0	165.0	172.5	184.1	82.4	80.0	92.0	54.0	77.5	83.0
	Loc. Mean	**213.4**	**162.0**	**172.1**	**158.0**	**173.8**	**175.8**	**72.3**	**74.9**	**79.4**	**62.3**	**84.4**	**77.7**
	C.D. (5%)	38.99	23.18	28.20	35.02	18.03	17.65	22.31	16.22	9.67	26.44	10.31	10.80
	C.V. (%)	8.85	6.93	7.94	10.74	5.03	8.00	14.96	10.50	5.90	20.56	5.92	9.85
	F (Prob)	0.06	0.17	0.00	0.33	0.14	0.34	0.10	0.71	0.00	0.51	0.04	0.03

TABLE No. 33 **PERFORMANCE OF EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSWARA, CHHINDWARA, GODHRA, UDAIPUR IN TRIAL No. TR ZN ZTQ01 ZONE 5 DURING KHARIF 2016**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										CWZ ZN 5		OV'L	
		AMBI	R	BANS	R	CHHI	R	GODH	R	UDAI	R	MEAN	R	MEAN	R
1	GWHQPM-0916	5036	7	4386	9	8499	1	3580	9	5287	2	5358	4	5358	4
2	GWHQPM-0919	4526	8	4580	5	4255	10	5270	2	4308	4	4588	9	4588	9
3	GWHQPM-0917	4267	9	4501	6	6417	8	4872	5	5629	1	5137	5	5137	5
4	GYHQPM-0905	2836	11	4600	4	7754	3	3460	11	3744	7	4479	10	4479	10
5	EHQ-585	6136	3	4942	1	6811	6	5192	3	4977	3	5612	1	5612	1
6	EHQ-584	3952	10	4452	7	4234	11	3851	8	2375	11	3773	11	3773	11
7	EHQ-582	5749	4	3706	12	7535	4	4521	6	2880	10	4878	7	4878	7
8	EHQ-583	5151	6	4412	8	7884	2	4233	7	3729	8	5082	6	5082	6
9	EHQ-324	6448	2	4666	3	6550	7	5543	1	3953	6	5432	3	5432	3
10	EHQ-567	2116	12	4246	11	3199	12	1604	12	1754	12	2584	12	2584	12
	CHECKS														
11	Pratap QPM HYBRID-1	5661	5	4322	10	7389	5	3576	10	3093	9	4808	8	4808	8
12	PHM-3	7536	1	4823	2	6228	9	4885	4	4255	5	5545	2	5545	2
	Location Mean	**4951**		**4470**		**6396**		**4216**		**3832**		**4773**		**4773**	
	C.D. (5%)	639		601		1414		743		530		785		785	
	C.V. (%)	7.6		7.92		13.02		10.38		8.15		-		-	
	F (Prob)	0		0.054		0		0		0					
	Plot Size	6		4.8		6		4.8		4.8		-		-	
	AGRONOMY DATA														
	Sowing Date	13-07		6-07		18-07		8-07		5-07		-		-	
	Harvest Date	-		21-10		2-12		25-10		18-10		-		-	
	Irrigation Nos	-		-		-		-		1		-		-	
	Ferilizer Applied N	120		150		120		120		120		-		-	
	Ferilizer Applied P	60		80		60		60		90		-		-	
	Ferilizer Applied K	40		-		40		-		-		-		-	

TABLE No. 33 (Contd.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Pratap QPM HYBRID-1												ZN 5 MEAN	R	OV'L MEAN	R
		AMBI	R	BANS	R	CHHI	R	GODH	R	UDAI	R						
1	GWHQPM-0916	-		1.5		15		0.1		71				11.4		11.4	
2	GWHQPM-0919	-		6		-		47.4		39.3				-		-	
3	GWHQPM-0917	-		4.1		-		36.2		82				6.8		6.8	
4	GYHQPM-0905	-		6.4		4.9		-		21.1				-		-	
5	EHQ-585	8.4		14.4		-		45.2		60.9				16.7		16.7	
6	EHQ-584	-		3		-		7.7		-				-		-	
7	EHQ-582	1.6		-		2		26.4		-				1.5		1.5	
8	EHQ-583	-		2.1		6.7		18.4		20.6				5.7		5.7	
9	EHQ-324	13.9		8		-		55		27.8				13		13	
10	EHQ-567	-		-		-		-		-				-		-	
	CHECKS																
11	Pratap QPM HYBRID-1	-		-		-		-		-				-		-	
12	PHM-3	33.1		11.6		-		36.6		37.6				15.3		15.3	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PHM-3												ZN 5 MEAN	R	OV'L MEAN	R
		AMBI	R	BANS	R	CHHI	R	GODH	R	UDAI	R						
1	GWHQPM-0916	-		-		36.5		-		24.3				-		-	
2	GWHQPM-0919	-		-		-		7.9		1.3				-		-	
3	GWHQPM-0917	-		-		3		-		32.3				-		-	
4	GYHQPM-0905	-		-		24.5		-		-				-		-	
5	EHQ-585	-		2.5		9.3		6.3		17				1.2		1.2	
6	EHQ-584	-		-		-		-		-				-		-	
7	EHQ-582	-		-		21		-		-				-		-	
8	EHQ-583	-		-		26.6		-		-				-		-	
9	EHQ-324	-		-		5.2		13.5		-				-		-	
10	EHQ-567	-		-		-		-		-				-		-	
	CHECKS																
11	Pratap QPM HYBRID-1	-		-		18.6		-		-				-		-	
12	PHM-3	-		-		-		-		-				-		-	

TABLE No. 33 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % AMBI	BANS	CHHI	GODH	UDAI	CWZ ZN 5 Mean
1	GWHQPM-0916	77.8	73.8	87.0	76.0	78.9	78.7
2	GWHQPM-0919	78.1	74.1	81.3	79.4	80.1	78.6
3	GWHQPM-0917	76.8	75.0	87.2	72.4	78.5	78.0
4	GYHQPM-0905	75.8	74.6	87.3	86.8	79.1	80.7
5	EHQ-585	76.3	73.3	87.2	84.3	79.3	80.1
6	EHQ-584	77.3	75.0	84.6	76.7	80.5	78.8
7	EHQ-582	78.3	71.1	86.4	69.3	79.6	77.0
8	EHQ-583	77.4	73.2	87.3	80.6	76.7	79.0
9	EHQ-324	77.9	75.1	87.5	85.9	81.0	81.5
10	EHQ-567	77.7	72.5	86.7	85.6	80.1	80.5
	CHECKS						
11	Pratap QPM HYBRID-1	77.3	73.8	89.0	78.3	81.3	79.9
12	PHM-3	77.1	76.1	84.9	82.5	81.3	80.4
	Loc. Mean	**77.3**	**74.0**	**86.4**	**79.8**	**79.7**	**79.4**
	C.D. (5%)	2.89	2.26	3.92	10.09	0.36	3.51
	C.V. (%)	2.21	1.80	2.68	7.46	0.27	3.47
	F (Prob)	0.84	0.01	0.06	0.03	0.00	0.37

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) AMBI	BANS	CHHI	GODH	UDAI	CWZ ZN 5 Mean
1	GWHQPM-0916	59.4	59.7	60.6	52.1	63.2	59.0
2	GWHQPM-0919	58.3	62.5	60.6	67.4	59.7	61.7
3	GWHQPM-0917	55.0	56.9	65.6	69.4	59.7	61.3
4	GYHQPM-0905	49.4	61.8	65.6	63.9	59.0	59.9
5	EHQ-585	65.0	63.9	63.3	66.0	59.0	63.4
6	EHQ-584	51.1	60.4	58.9	47.2	46.5	52.8
7	EHQ-582	60.6	59.7	65.6	68.8	62.5	63.4
8	EHQ-583	61.7	60.4	66.1	67.4	56.3	62.4
9	EHQ-324	69.4	58.3	66.7	62.5	53.5	62.1
10	EHQ-567	43.9	61.8	42.2	48.6	42.4	47.8
	CHECKS						
11	Pratap QPM HYBRID-1	57.2	59.0	66.7	62.5	61.1	61.3
12	PHM-3	71.1	59.7	61.7	52.1	47.2	58.4
	Loc. Mean	**58.5**	**60.4**	**61.9**	**60.6**	**55.8**	**59.5**
	C.D. (5%)	5.00	6.01	7.61	6.77	5.81	6.97
	C.V. (%)	5.04	5.88	7.26	6.60	6.14	9.20
	F (Prob)	0.00	0.58	0.00	0.00	0.00	0.00

S.No.	PEDIGREE	MOISTURE % AT HARVEST AMBI	BANS	CHHI	GODH	UDAI	CWZ ZN 5 Mean
1	GWHQPM-0916	15.3	16.1	13.8	13.7	18.0	15.4
2	GWHQPM-0919	15.6	15.6	12.2	15.4	20.2	15.8
3	GWHQPM-0917	14.1	16.3	12.4	14.0	20.5	15.5
4	GYHQPM-0905	13.2	16.2	12.9	14.4	18.4	15.0
5	EHQ-585	13.9	15.7	12.8	17.2	20.0	15.9
6	EHQ-584	14.9	16.5	12.5	18.0	19.8	16.3
7	EHQ-582	15.5	16.1	12.8	16.2	16.5	15.4
8	EHQ-583	14.4	16.3	13.5	16.5	15.6	15.3
9	EHQ-324	15.0	15.5	13.5	14.3	21.4	15.9
10	EHQ-567	14.9	15.5	13.4	15.0	16.3	15.0
	CHECKS						
11	Pratap QPM HYBRID-1	15.1	16.0	13.1	17.9	22.4	16.9
12	PHM-3	14.5	16.6	12.7	16.7	21.9	16.5
	Loc. Mean	**14.7**	**16.0**	**13.0**	**15.8**	**19.2**	**15.7**
	C.D. (5%)	2.35	0.48	0.96	0.64	0.49	1.63
	C.V. (%)	9.44	1.76	4.35	2.41	1.50	8.15
	F (Prob)	0.69	0.00	0.04	0.00	0.00	0.42

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED AMBI	BANS	CHHI	GODH	UDAI	CWZ ZN 5 Mean
1	GWHQPM-0916	44.7	40.3	57.0	50.0	50.0	48.4
2	GWHQPM-0919	45.7	41.0	54.3	46.0	49.3	47.3
3	GWHQPM-0917	45.7	41.0	53.7	47.0	48.3	47.1
4	GYHQPM-0905	45.7	41.0	53.7	47.3	50.3	47.6
5	EHQ-585	51.7	41.7	60.3	50.0	53.3	51.4
6	EHQ-584	51.3	40.3	58.7	49.3	54.0	50.7
7	EHQ-582	52.7	40.3	58.3	50.0	51.0	50.5
8	EHQ-583	49.7	40.3	58.0	49.3	52.7	50.0
9	EHQ-324	52.3	41.0	60.7	53.3	52.3	51.9
10	EHQ-567	49.7	41.0	60.3	52.0	54.7	51.5
	CHECKS						
11	Pratap QPM HYBRID-1	53.0	41.3	60.3	52.0	53.3	52.0
12	PHM-3	53.7	40.3	60.7	50.0	53.7	51.7
	Loc. Mean	**49.6**	**40.8**	**58.0**	**49.7**	**51.9**	**50.0**
	C.D. (5%)	0.69	1.84	1.14	1.63	2.11	1.99
	C.V. (%)	0.82	2.66	1.16	1.94	2.39	3.13
	F (Prob)	0.00	0.86	0.00	0.00	0.00	0.00

TABLE No. 33 (Contd.)

S.No.	PEDIGREE	DAYS TO 50% SILKING AMBI	BANS	CHHI	GODH	UDAI	CWZ ZN 5 Mean
1	GWHQPM-0916	47.7	43.3	57.3	52.0	51.7	50.4
2	GWHQPM-0919	47.7	44.0	56.0	48.0	50.3	49.2
3	GWHQPM-0917	48.3	44.0	54.7	49.0	49.7	49.1
4	GYHQPM-0905	47.7	44.0	54.3	49.3	51.7	49.4
5	EHQ-585	53.7	44.7	60.7	52.0	54.7	53.1
6	EHQ-584	54.0	43.3	59.0	51.3	55.7	52.7
7	EHQ-582	54.7	43.3	58.3	52.0	52.7	52.2
8	EHQ-583	52.0	43.3	58.0	51.3	54.7	51.9
9	EHQ-324	55.3	44.0	61.0	55.3	53.7	53.9
10	EHQ-567	52.0	44.0	60.7	54.0	56.0	53.3
	CHECKS						
11	Pratap QPM HYBRID-1	55.0	44.3	60.7	54.0	54.3	53.7
12	PHM-3	55.7	43.3	61.0	52.0	55.3	53.5
	Loc. Mean	**52.0**	**43.8**	**58.5**	**51.7**	**53.4**	**51.9**
	C.D. (5%)	1.21	1.84	1.38	1.63	1.49	1.93
	C.V. (%)	1.38	2.48	1.39	1.86	1.64	2.93
	F (Prob)	0.00	0.86	0.00	0.00	0.00	0.00

S.No.	PEDIGREE	PLANT HEIGHT(cm) AMBI	BANS	CHHI	GODH	UDAI	CWZ ZN 5 Mean
1	GWHQPM-0916	235.8	161.7	184.7	154.3	155.0	178.3
2	GWHQPM-0919	226.3	161.7	159.7	138.0	163.3	169.8
3	GWHQPM-0917	226.1	160.0	183.0	158.3	150.0	175.5
4	GYHQPM-0905	194.9	160.0	156.3	140.0	148.3	159.9
5	EHQ-585	225.5	161.7	173.3	149.7	145.0	171.0
6	EHQ-584	241.5	163.3	192.3	154.3	125.0	175.3
7	EHQ-582	239.3	163.3	192.0	156.3	170.0	184.2
8	EHQ-583	218.3	165.0	153.3	140.3	138.3	163.1
9	EHQ-324	222.5	155.0	156.3	154.7	165.0	170.7
10	EHQ-567	195.4	161.7	149.7	133.0	125.0	152.9
	CHECKS						
11	Pratap QPM HYBRID-1	227.1	155.0	174.0	136.7	156.7	169.9
12	PHM-3	263.5	160.0	200.3	152.7	206.7	196.6
	Loc. Mean	**226.4**	**160.7**	**172.9**	**147.4**	**154.0**	**172.3**
	C.D. (5%)	17.59	11.38	17.20	19.54	9.25	15.48
	C.V. (%)	4.59	4.18	5.87	7.83	3.55	7.05
	F (Prob)	0.00	0.79	0.00	0.11	0.00	0.00

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK AMBI	BANS	CHHI	GODH	UDAI	CWZ ZN 5 Mean
1	GWHQPM-0916	94.3	71.3	96.3	83.3	82.3	85.5
2	GWHQPM-0919	84.0	75.3	88.3	80.0	80.7	81.7
3	GWHQPM-0917	84.0	72.3	86.7	79.3	84.3	81.3
4	GYHQPM-0905	87.3	72.3	90.0	79.3	81.0	82.0
5	EHQ-585	100.0	71.7	98.3	82.0	87.3	87.9
6	EHQ-584	93.7	71.7	88.3	82.0	87.0	84.5
7	EHQ-582	94.3	71.7	90.7	83.7	90.0	86.1
8	EHQ-583	99.3	70.3	97.7	82.3	87.3	87.4
9	EHQ-324	99.0	71.3	97.3	84.7	84.7	87.4
10	EHQ-567	100.3	72.0	95.7	83.0	87.0	87.6
	CHECKS						
11	Pratap QPM HYBRID-1	99.0	71.3	98.3	83.0	84.3	87.2
12	PHM-3	94.7	71.3	94.0	81.0	90.3	86.3
	Loc. Mean	**94.2**	**71.9**	**93.5**	**82.0**	**85.5**	**85.4**
	C.D. (5%)	2.21	3.90	1.72	2.93	4.63	4.04
	C.V. (%)	1.39	3.21	1.08	2.11	3.20	3.71
	F (Prob)	0.00	0.62	0.00	0.01	0.00	0.00

S.No.	PEDIGREE	EAR HEIGHT(cm) AMBI	BANS	CHHI	GODH	UDAI	CWZ ZN 5 Mean
1	GWHQPM-0916	90.7	66.7	85.3	65.3	80.0	77.6
2	GWHQPM-0919	89.3	61.7	75.7	58.0	83.3	73.6
3	GWHQPM-0917	79.3	68.3	86.0	72.7	71.7	75.6
4	GYHQPM-0905	63.5	70.0	76.7	60.3	68.3	67.8
5	EHQ-585	60.3	60.0	69.3	61.0	46.7	59.5
6	EHQ-584	68.9	66.7	86.3	69.3	65.0	71.2
7	EHQ-582	63.0	65.0	84.3	55.3	75.0	68.5
8	EHQ-583	61.5	68.3	70.7	54.3	60.0	63.0
9	EHQ-324	52.9	63.3	74.0	65.3	50.0	61.1
10	EHQ-567	52.9	65.0	70.0	58.7	75.7	64.4
	CHECKS						
11	Pratap QPM HYBRID-1	59.1	63.3	76.0	53.0	53.3	61.0
12	PHM-3	98.2	65.0	101.3	72.0	80.0	83.3
	Loc. Mean	**70.0**	**65.3**	**79.6**	**62.1**	**67.4**	**68.9**
	C.D. (5%)	12.42	11.55	12.80	14.07	6.41	10.14
	C.V. (%)	10.48	10.45	9.49	13.38	5.62	11.55
	F (Prob)	0.00	0.85	0.00	0.08	0.00	0.00

TABLE No. 34 PERFORMANCE OF EXPERIMENTAL HYBRIDS AT SRINAGAR IN TRIAL No. TR62AS DURING KHARIF 2016

Sl No	PEDIGREE	Grain Yield (kg/ha) ZN 1 SRIN	R	Grain Yield % Sup. over HM 9 © SRIN	R	Grain Yield % Sup. over BIO 9637 © SRIN	R	Grain Yield % Sup. over PMH 4 © SRIN	R
1	KNMH-4501	7317	8	7.7		18.9		25.2	
2	JH 13347	7311	9	7.6		18.8		25.1	
3	KMH 13-5	7404	4	9		20.3		26.6	
4	KNMH-4505	7413	3	9.1		20.5		26.8	
5	HM15207	7501	1	10.4		21.9		28.3	
6	EH-2480	7116	12	4.8		15.6		21.7	
7	JH 13348	7359	5	8.3		19.6		25.9	
8	AH7007	7355	6	8.3		19.5		25.8	
9	SRIKAR 2079	7418	2	9.2		20.6		26.9	
10	IMH1526	7317	7	7.7		18.9		25.2	
11	PMSW4	7158	11	5.4		16.3		22.4	
12	EH-2233	7116	13	4.8		15.6		21.7	
13	BIO 509	7111	14	4.7		15.6		21.6	
14	KNMH-4507	6612	19	-		7.5		13.1	
15	IMH1530	7162	10	5.4		16.4		22.5	
16	AMH-3435	6562	21	-		6.6		12.2	
17	MMH-4-15	6298	27	-		2.3		7.7	
18	UDMH-127	6081	35	-		-		4	
19	NMH 109	6230	30	-		1.2		6.6	
20	PMSY3	6350	25	-		3.2		8.6	
21	CMH11-620	6068	36	-		-		3.8	
22	LMH 915	6311	26	-		2.6		7.9	
23	JKMH 4103	5871	42	-		-		0.4	
24	RCRMH1 (HTMR1)	5935	40	-		-		1.5	
25	LMH 615	5892	41	-		-		0.8	
26	JKMH 4333	6105	34	-		-		4.4	
27	LMH 815	6160	31	-		0.1		5.4	
28	OMH 14-64(CAH 1532	6020	37	-		-		3	
29	Mahabeej-1302	6543	22	-		6.3		11.9	
30	IIMRNH 2015-1	6287	28	-		2.2		7.5	

TABLE No. 34 PERFORMANCE OF EXPERIMENTAL HYBRIDS AT SRINAGAR IN TRIAL No. TR62AS DURING KHARIF 2016

Sl No	PEDIGREE	Grain Yield (kg/ha) ZN 1 SRIN	R	Grain Yield % Sup. over HM 9 © SRIN	R	Grain Yield % Sup. over BIO 9637 © SRIN	R	Grain Yield % Sup. over PMH 4 © SRIN	R
31	CMH12-699	6358	24	-		3.3		8.7	
32	IIMRNH 2015-2	6005	38	-		-		2.7	
33	IMH1525	5944	39	-		-		1.7	
34	BRM 12-3	6250	29	-		1.6		6.9	
35	MMH-3-15	6586	20	-		7		12.7	
36	DAS-MH-309	6816	16	0.3		10.8		16.6	
37	NMH-3746	6495	23	-		5.6		11.1	
38	PROLINE-511	6137	33	-		-		5	
39	BL 106	5518	44	-		-		-	
40	IIMRNH 2015-3	6930	15	2		12.6		18.5	
41	HM15206	6693	18	-		8.8		14.5	
	CHECKS								
42	HM 9(C)	6793	17	-		10.4		16.2	
43	BIO 9637(C)	6153	32	-		-		5.2	
44	PMH-4(C)	5846	43	-		-		-	
	Location Mean	**6589**							
	C.D. (5%)	331							
	C.V. (%)	3.1							
	F (Prob)	0							
	Plot Size	4.8							
	AGRONOMY DATA								
	Sowing Date	20-04							
	Harvest Date	18-09							
	Irrigation Nos	2							
	Ferilizer Applied N	120							
	Ferilizer Applied P	80							
	Ferilizer Applied K	60							

Table No. 34 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % SRIN	MOISTURE % AT HARVEST SRIN	STAND AT HARVEST SRIN	DAYS TO 50% POLLEN SHED SRIN	DAYS TO 50% SILKING SRIN	DAYS TO 75% DRY HUSK SRIN	PLANT HEIGHT(cm) SRIN	EAR HEIGHT(cm) SRIN
1	KNMH-4501	78.3	17.0	39.7	84.0	86.7	143.0	231.7	138.3
2	JH 13347	79.0	20.5	40.0	80.0	83.0	132.3	200.0	95.0
3	KMH 13-5	79.3	16.5	39.7	78.7	81.0	137.7	198.3	73.3
4	KNMH-4505	78.3	18.0	39.7	82.3	84.7	141.0	238.3	168.3
5	HM15207	78.0	16.5	39.3	82.0	84.0	138.0	241.7	140.0
6	EH-2480	79.0	15.5	39.3	82.0	84.3	132.0	241.7	165.0
7	JH 13348	78.3	17.5	39.7	80.3	83.0	133.0	178.3	96.7
8	AH7007	79.0	16.5	39.7	78.7	81.7	133.0	210.0	96.7
9	SRIKAR 2079	78.8	15.5	39.3	82.0	85.7	133.0	170.0	88.3
10	IMH1526	78.3	15.5	39.3	81.3	83.7	135.0	176.7	85.0
11	PMSW4	77.8	16.5	39.7	81.0	83.3	136.0	180.0	91.7
12	EH-2233	78.8	16.5	39.3	81.7	84.7	134.3	173.3	81.7
13	BIO 509	79.3	15.5	39.3	80.0	82.7	131.3	211.7	86.7
14	KNMH-4507	77.8	18.0	39.7	84.7	87.7	129.7	241.7	128.3
15	IMH1530	78.8	19.0	39.0	83.0	86.0	133.0	211.7	105.0
16	AMH-3435	78.8	15.0	39.7	82.0	84.7	131.0	190.0	86.7
17	MMH-4-15	79.0	15.5	39.7	83.3	86.0	135.3	180.0	73.3
18	UDMH-127	79.8	15.5	39.3	83.0	85.0	131.7	155.0	81.7
19	NMH 109	79.3	17.0	39.7	83.0	85.7	133.0	183.3	81.7
20	PMSY3	80.0	15.5	39.0	82.3	85.0	134.7	201.7	71.7
21	CMH11-620	78.8	16.5	39.7	80.7	83.0	133.7	231.7	125.0
22	LMH 915	79.3	17.0	39.3	84.3	86.7	131.7	233.3	153.3
23	JKMH 4103	78.8	17.0	39.3	82.3	85.0	138.0	185.0	105.0
24	RCRMH1 (HTMR1)	79.0	17.5	40.0	82.0	84.3	130.0	210.0	133.3
25	LMH 615	77.8	20.0	39.7	82.3	84.7	141.0	225.0	130.0
26	JKMH 4333	77.3	21.0	39.3	81.7	84.3	135.3	203.3	116.7
27	LMH 815	79.3	19.0	39.3	83.0	85.3	137.3	251.7	145.0
28	OMH 14-64(CAH 1532)	78.8	21.0	39.0	81.3	84.0	135.0	201.7	100.0
29	Mahabeej-1302	79.0	15.5	39.7	79.3	82.7	136.7	193.3	80.0
30	IIMRNH 2015-1	78.3	18.0	39.7	83.7	86.0	140.0	205.0	95.0

Table No. 34 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % SRIN	MOISTURE % AT HARVEST SRIN	STAND AT HARVEST SRIN	DAYS TO 50% POLLEN SHED SRIN	DAYS TO 50% SILKING SRIN	DAYS TO 75% DRY HUSK SRIN	PLANT HEIGHT(cm) SRIN	EAR HEIGHT(cm) SRIN
31	CMH12-699	79.0	16.5	38.3	81.0	83.3	133.0	231.7	140.0
32	IIMRNH 2015-2	78.8	15.5	39.3	84.3	87.0	141.3	195.0	86.7
33	IMH1525	80.0	15.0	39.7	80.0	83.3	129.3	150.0	48.3
34	BRM 12-3	79.0	16.5	39.0	78.3	81.0	136.7	140.0	40.0
35	MMH-3-15	77.8	18.0	39.3	81.3	83.7	143.3	160.0	83.3
36	DAS-MH-309	79.3	16.0	39.3	84.0	87.3	138.3	168.3	71.7
37	NMH-3746	78.3	19.0	40.0	81.3	84.0	137.7	160.0	58.3
38	PROLINE-511	79.8	15.5	40.0	79.3	82.3	138.0	165.0	76.7
39	BL 106	78.8	17.5	39.3	80.0	82.7	141.0	155.0	65.0
40	IIMRNH 2015-3	80.0	16.5	38.7	83.3	86.3	135.3	178.3	100.0
41	HM15206	79.0	18.0	39.7	84.3	87.3	136.3	206.7	113.3
	CHECKS								
42	HM 9(C)	78.0	18.0	39.0	80.0	82.3	137.0	211.7	100.0
43	BIO 9637(C)	78.0	18.5	38.7	77.7	80.3	140.7	241.7	148.3
44	PMH-4(C)	79.8	16.5	40.0	78.0	80.7	145.7	255.0	150.0
	Loc. Mean	**78.8**	**17.1**	**39.4**	**81.6**	**84.2**	**135.9**	**199.4**	**102.3**
	C.D. (5%)	0.19	0.48	2.58	6.06	6.12	3.91	12.94	8.35
	C.V. (%)	0.15	1.74	1.93	4.57	4.47	1.77	4.00	5.03
	F (Prob)	0.00	0.00	0.89	0.86	0.86	0.00	0.00	0.00

TABLE No. 35 **PERFORMANCE OF EXPERIMENTAL HYBRIDS AT SRINAGAR IN TRIAL No. TR62BS DURING KHARIF 2016**

Sl No	PEDIGREE	Grain Yield(kg/ha) ZN 1 SRIN	R	Grain Yield % Sup. over HM 9 © SRIN	R	Grain Yield % Sup. over BIO 9637 © SRIN	R	Grain Yield % Sup. over PMH-4 © SRIN	R
1	BRM 12-4	7433	1	39.3		34.6		46.3	
2	AH1401	5680	21	6.5		2.9		11.8	
3	OMH 14-7(CAH 1538)	6174	7	15.7		11.8		21.6	
4	IMH1534	6541	3	22.6		18.4		28.8	
5	Muskan	5785	17	8.4		4.7		13.9	
6	IMH1524	5701	19	6.9		3.2		12.2	
7	PM15107M	6659	2	24.8		20.6		31.1	
8	RMH-301	5417	32	1.6		-		6.7	
9	LMH 715	5803	16	8.8		5.1		14.3	
10	KNMH-4502	5651	25	5.9		2.3		11.3	
11	IIMRNH 2015-4	5663	23	6.2		2.5		11.5	
12	KNMH-4504	5225	36	-		-		2.9	
13	IMH1527	6052	11	13.5		9.6		19.2	
14	Ganga-11	5696	20	6.8		3.1		12.2	
15	LMH 515	5741	18	7.6		3.9		13	
16	KH-2001 GOLD	5207	37	-		-		2.5	
17	DH-293	5565	28	4.3		0.8		9.6	
18	VaMH 12014	5852	15	9.7		6		15.2	
19	JH 31820	5096	40	-		-		0.3	
20	EH-2214	6135	8	15		11.1		20.8	
21	CMH12-672	5533	30	3.7		0.2		8.9	
22	BIO 274	5877	14	10.2		6.4		15.7	
23	PHM 34	5547	29	4		0.4		9.2	
24	KMH-5332	5588	27	4.8		1.2		10	
25	KNMH-4508	6124	9	14.8		10.9		20.6	
26	HKH 350	6267	6	17.5		13.5		23.4	
27	HT 515349	5883	13	10.3		6.5		15.8	
28	BGMH2 (CAH1454)	6370	4	19.4		15.3		25.4	
29	LMH 1015	6058	10	13.6		9.7		19.3	
30	DH-294	5181	39	-		-		2	

TABLE No. 35 **PERFORMANCE OF EXPERIMENTAL HYBRIDS AT SRINAGAR IN TRIAL No. TR62BS DURING KHARIF 2016**

Sl No	PEDIGREE	Grain Yield(kg/ha) ZN 1 SRIN	R	Grain Yield % Sup. over HM 9 © SRIN	R	Grain Yield % Sup. over BIO 9637 © SRIN	R	Grain Yield % Sup. over PMH-4 © SRIN	R
31	IMH1533	5206	38	-		-		2.5	
32	RCRMH2 (HTMR2)	5292	34	-		-		4.2	
33	BL 107	5923	12	11		7.2		16.6	
34	AH7009	5279	35	-		-		3.9	
35	GK3131	5034	43	-		-		-	
36	IIMRNH 2015-5	5084	41	-		-		0.1	
37	DAS-MH-308	6319	5	18.5		14.4		24.4	
38	BGMH1 (CAH1526)	4950	44	-		-		-	
39	KMH 13-79	5653	24	6		2.4		11.3	
40	BAUMC-3	5679	22	6.5		2.8		11.8	
41	VEH 15-1	5650	26	5.9		2.3		11.3	
	CHECKS								
42	HM 9(C)	5334	33		-	-		5	
43	BIO 9637(C)	5523	31		3.5	-		8.7	
44	PMH-4(C)	5079	42		-	-		-	
	Location Mean	**5716**							
	C.D. (5%)	287							
	C.V. (%)	3.1							
	F (Prob)	0							
	Plot Size	4.8							
	AGRONOMY DATA								
	Sowing Date	20-04							
	Harvest Date	27-09							
	Irrigation Nos	2							
	Ferilizer Applied N	120							
	Ferilizer Applied P	80							
	Ferilizer Applied K	60							

Table No. 35 (Contd.)

S.No	PEDIGREE	GRAIN SHELLING % SRIN	MOISTURE % AT HARVEST SRIN	STAND AT HARVEST SRIN	DAYS TO 50% POLLEN SHED SRIN	DAYS TO 50% SILKING SRIN	DAYS TO 75% DRY HUSK SRIN	PLANT HEIGHT(cm) SRIN	EAR HEIGHT(cm) SRIN
1	BRM 12-4	77.8	23.5	40.0	83.3	84.7	142.0	208.3	138.3
2	AH1401	79.8	23.5	39.5	88.3	89.7	140.3	201.7	95.0
3	OMH 14-7(CAH 1538)	78.3	23.0	39.5	87.7	88.7	141.0	185.0	73.3
4	IMH1534	78.0	21.0	39.5	89.7	90.7	142.3	213.3	168.3
5	Muskan	80.0	23.0	40.0	89.3	90.3	143.0	218.3	140.0
6	IMH1524	79.8	21.5	40.0	86.7	88.0	145.3	205.0	165.0
7	PM15107M	78.8	17.5	40.0	84.7	86.0	140.0	170.0	96.7
8	RMH-301	79.0	24.0	40.0	86.3	87.7	146.0	165.0	96.7
9	LMH 715	79.5	19.5	40.0	89.3	90.7	142.0	165.0	88.3
10	KNMH-4502	80.0	21.0	39.7	87.7	90.7	143.0	183.3	85.0
11	IIMRNH 2015-4	80.0	20.5	39.0	89.7	91.7	145.0	180.0	91.7
12	KNMH-4504	78.0	21.5	40.0	89.3	91.3	147.3	180.0	81.7
13	IMH1527	78.8	16.0	40.0	90.0	92.0	147.7	175.0	86.7
14	Ganga-11	79.8	17.5	40.0	88.7	90.7	136.7	186.7	128.3
15	LMH 515	80.0	17.5	40.0	90.3	92.3	142.0	205.0	105.0
16	KH-2001 GOLD	79.8	23.5	39.0	90.7	92.7	144.3	186.7	86.7
17	DH-293	80.0	18.5	39.0	90.7	92.7	146.3	185.0	73.3
18	VaMH 12014	79.8	22.5	40.0	90.7	92.7	146.3	185.0	81.7
19	JH 31820	78.8	23.0	39.0	90.7	92.7	144.0	165.0	81.7
20	EH-2214	80.0	17.5	39.7	90.7	92.7	145.3	200.0	71.7
21	CMH12-672	78.8	22.5	39.0	88.3	90.3	144.3	190.0	125.0
22	BIO 274	79.8	20.5	39.7	89.7	91.7	143.7	195.0	153.3
23	PHM 34	78.8	24.0	39.7	89.7	91.7	142.7	205.0	105.0
24	KMH-5332	78.8	21.0	40.0	89.7	91.7	144.7	200.0	133.3
25	KNMH-4508	79.3	20.5	38.5	89.3	91.3	146.0	223.3	130.0
26	HKH 350	80.0	15.5	39.5	83.7	86.0	140.0	171.7	116.7
27	HT 515349	79.8	17.5	40.0	83.7	86.0	145.7	175.0	145.0
28	BGMH2 (CAH1454)	79.0	16.0	40.0	88.3	90.7	142.7	210.0	100.0
29	LMH 1015	78.3	21.0	39.7	89.7	91.7	143.3	218.3	80.0
30	DH-294	79.0	22.0	40.0	90.7	92.7	146.0	201.7	95.0

Table No. 35 (Contd.)

S.No	PEDIGREE	GRAIN SHELLING % SRIN	MOISTURE % AT HARVEST SRIN	STAND AT HARVEST SRIN	DAYS TO 50% POLLEN SHED SRIN	DAYS TO 50% SILKING SRIN	DAYS TO 75% DRY HUSK SRIN	PLANT HEIGHT(cm) SRIN	EAR HEIGHT(cm) SRIN
31	IMH1533	79.8	23.5	40.0	90.3	92.3	147.0	223.3	140.0
32	RCRMH2 (HTMR2)	80.0	22.5	39.7	90.7	92.3	143.0	200.0	86.7
33	BL 107	78.8	18.5	38.0	88.7	91.0	141.7	190.0	48.3
34	AH7009	78.8	17.5	39.7	90.7	92.7	147.0	201.7	40.0
35	GK3131	78.8	22.5	40.0	90.3	92.3	144.3	195.0	83.3
36	IIMRNH 2015-5	78.8	22.5	40.0	90.3	91.7	141.0	191.7	71.7
37	DAS-MH-308	78.3	15.5	39.0	88.7	91.3	140.3	195.0	58.3
38	BGMH1 (CAH1526)	79.0	22.5	39.7	90.3	92.3	144.7	215.0	76.7
39	KMH 13-79	79.8	18.5	40.0	89.7	91.0	146.3	238.3	65.0
40	BAUMC-3	79.5	17.5	40.0	90.7	92.3	146.7	233.3	100.0
41	VEH 15-1	78.0	17.5	39.7	89.7	92.0	146.7	185.0	113.3
	CHECKS								
42	HM 9(C)	78.5	24.0	40.0	90.7	92.7	145.3	215.0	100.0
43	BIO 9637(C)	79.0	18.5	39.0	90.7	92.7	145.3	218.3	148.3
44	PMH-4(C)	78.5	23.0	39.0	88.0	90.3	144.0	180.0	150.0
	Loc. Mean	**79.1**	**20.5**	**39.6**	**89.0**	**90.9**	**143.9**	**196.3**	**102.3**
	C.D. (5%)	0.20	0.42	1.54	1.41	1.72	4.18	3.51	8.35
	C.V. (%)	0.16	1.28	1.15	0.98	1.17	1.79	1.10	5.03
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 36 PERFORMANCE OF EXPERIMENTAL HYBRIDS AT SRINAGAR IN TRIAL No. TR6364S DURING KHARIF 2016

Sl No	PEDIGREE	Grain Yield (kg/ha) ZN 1 SRIN	R	Grain Yield Sup. % over Vivek Hybrid 21 (C) SRIN	R	Grain Yield Sup. % over Vivek Hybrid 43 (C) SRIN	R	Grain Yield Sup. % over PMH-5 (C) SRIN	R	Grain Yield Sup. % over PMH-5 (C) SRIN	R
1	BRM 12-5	5333	23	3.9		-		0.9		-	
2	KMH-5510	5816	12	13.3		5.7		10.1		1.9	
3	AH7006	5648	17	10		2.7		6.9		-	
4	LMH 1215	5351	22	4.2		-		1.3		-	
5	DMRH1305	5310	24	3.4		-		0.5		-	
6	FH 3728	5896	9	14.8		7.2		11.6		3.3	
7	LMH 1415	5543	18	8		0.8		4.9		-	
8	JH 31785	5253	26	2.3		-		-		-	
9	FH 3754	5372	21	4.6		-		1.7		-	
10	BL 104	5810	13	13.2		5.6		10		1.8	
11	KMH 13-15	5147	29	0.2		-		-		-	
12	BL 105	5513	19	7.4		0.2		4.4		-	
13	DH-292	6174	4	20.3		12.2		16.9		8.2	
14	H-100 (CAH-1527)	6023	6	17.3		9.5		14		5.6	
15	H-101 (CAH-1586)	6091	5	18.6		10.7		15.3		6.8	
16	IH-0712	5971	7	16.3		8.5		13		4.7	
17	EH-2416	5205	27	1.4		-		-		-	
18	CMH12-700	5947	8	15.8		8.1		12.6		4.2	
19	KMH 13-17	6666	1	29.8		21.2		26.2		16.8	
20	AH1402	6329	2	23.3		15.1		19.8		10.9	
21	LMH 1115	4725	35	-		-		-		-	
22	CMH12-703	5839	11	13.7		6.1		10.5		2.3	
23	LMH 1315	6251	3	21.8		13.6		18.3		9.6	
24	DH-291	5886	10	14.6		7		11.4		3.2	
25	FH 3729	4254	37	-		-		-		-	
26	JKMH 4222	5126	31	-		-		-		-	
27	NMH-51	3845	40	-		-		-		-	
28	IH-0953	4347	36	-		-		-		-	
29	BRM 12-2	4889	34	-		-		-		-	
30	MEH-2-15	5188	28	1.1		-		-		-	

TABLE No. 36 PERFORMANCE OF EXPERIMENTAL HYBRIDS AT SRINAGAR IN TRIAL No. TR6364S DURING KHARIF 2016

Sl No	PEDIGREE	Grain Yield (kg/ha) ZN 1 SRIN	R	Grain Yield Sup. % over Vivek Hybrid 21 (C) SRIN	R	Grain Yield Sup. % over Vivek Hybrid 43 (C) SRIN	R	Grain Yield Sup. % over PMH-5 (C) SRIN	R	Grain Yield Sup. % over PMH-5 (C) SRIN	R
31	Khushi	5042	33	-		-		-		-	
32	LMH 1515	4106	38	-		-		-		-	
33	MEH-1-15	3861	39	-		-		-		-	
34	DH-297	5807	14	13.1		5.6		9.9		1.8	
35	DH-298	5053	32	-		-		-		-	
36	APH27-B	5762	15	12.2		4.7		9.1		1	
	CHECKS										
37	Vivek Hybrid 21(C)	5134	30	-		-		-		-	
38	Vivek Hybrid 43(C)	5501	20	7.1		-		4.1		-	
39	PMH-5-(C)	5283	25	2.9		-		-		-	
40	Parkash-(C)	5705	16	11.1		3.7		8		-	
	Location Mean	**5400**									
	Mean Stand	1000									
	C.D. (5%)	638									
	C.V. (%)	7.26									
	F (Prob)	0									
	Plot Size	4.8									
	AGRONOMY DATA										
	Sowing Date	20-04									
	Harvest Date	20-09									
	Irrigation Nos	2									
	Ferilizer Applied N	120									
	Ferilizer Applied P	80									
	Ferilizer Applied K	60									

Table No. 36 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % SRIN	MOISTURE % AT HARVEST SRIN	STAND AT HARVEST SRIN	DAYS TO 50% POLLEN SHED SRIN	DAYS TO 50% SILKING SRIN	DAYS TO 75% DRY HUSK SRIN	PLANT HEIGHT(cm) SRIN	EAR HEIGHT(cm) SRIN
1	BRM 12-5	79.3	15.5	39.7	75.3	78.0	120.7	190.0	101.7
2	KMH-5510	78.3	16.5	39.7	74.3	76.7	119.0	195.0	85.0
3	AH7006	78.8	15.5	39.7	74.7	77.3	118.7	175.0	90.0
4	LMH 1215	78.3	17.5	39.7	76.0	78.7	121.0	201.7	96.7
5	DMRH1305	79.3	15.0	39.7	72.3	75.7	119.7	170.0	75.0
6	FH 3728	78.3	16.5	39.7	75.7	77.7	122.3	180.0	76.7
7	LMH 1415	78.8	15.5	40.0	74.7	77.0	121.3	200.0	96.7
8	JH 31785	78.8	17.5	38.3	77.3	79.3	120.7	165.0	51.7
9	FH 3754	78.3	15.5	39.7	77.3	79.3	122.0	190.0	90.0
10	BL 104	77.5	18.0	39.3	77.0	79.3	122.0	216.7	106.7
11	KMH 13-15	79.3	18.0	40.0	76.3	79.0	127.7	180.0	80.0
12	BL 105	77.5	17.0	39.7	75.7	78.0	122.3	165.0	70.0
13	DH-292	77.8	15.5	39.3	74.7	77.3	125.3	140.0	43.3
14	H-100 (CAH-1527)	76.8	15.0	79.0	72.0	74.3	118.3	175.0	86.7
15	H-101 (CAH-1586)	76.0	20.5	79.0	77.0	79.3	127.7	201.7	76.7
16	IH-0712	77.3	25.5	79.3	80.0	82.0	129.7	226.7	111.7
17	EH-2416	77.8	25.5	79.3	77.7	79.7	129.7	231.7	131.7
18	CMH12-700	77.8	17.5	79.3	73.0	75.3	124.0	181.7	90.0
19	KMH 13-17	78.8	16.5	79.0	77.0	79.0	129.0	170.0	68.3
20	AH1402	77.8	15.5	79.7	72.7	75.7	116.7	180.0	81.7
21	LMH 1115	78.0	27.5	119.3	75.7	78.3	124.3	225.0	128.3
22	CMH12-703	77.8	27.5	119.7	83.7	86.0	135.3	245.0	145.0
23	LMH 1315	78.8	17.5	119.7	82.0	84.3	131.3	245.0	155.0
24	DH-291	78.3	20.0	120.0	81.0	83.3	132.7	205.0	91.7
25	FH 3729	78.3	24.5	119.0	82.7	84.7	133.7	208.3	85.0
26	JKMH 4222	77.3	24.5	118.7	76.0	78.3	128.3	208.3	118.3
27	NMH-51	78.0	25.5	119.3	78.7	80.7	134.0	218.3	125.0
28	IH-0953	77.5	22.5	120.0	82.7	84.7	132.0	213.3	120.0
29	BRM 12-2	78.3	21.5	119.7	76.0	79.0	130.3	208.3	101.7
30	MEH-2-15	77.0	23.5	119.3	78.7	80.7	133.0	201.7	108.3

Table No. 36 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % SRIN	MOISTURE % AT HARVEST SRIN	STAND AT HARVEST SRIN	DAYS TO 50% POLLEN SHED SRIN	DAYS TO 50% SILKING SRIN	DAYS TO 75% DRY HUSK SRIN	PLANT HEIGHT(cm) SRIN	EAR HEIGHT(cm) SRIN
31	Khushi	77.0	22.5	119.3	82.7	84.7	128.3	160.0	71.7
32	LMH 1515	78.3	24.5	119.3	76.0	79.0	130.3	195.0	100.0
33	MEH-1-15	77.3	27.5	119.0	81.0	83.0	130.0	186.7	110.0
34	PMH-5-C	78.8	17.0	79.7	89.3	91.7	133.0	195.0	80.0
35	Parkash-C	79.3	18.0	79.3	86.0	88.3	133.0	218.3	100.0
36	DH-297	78.8	19.0	80.0	83.7	86.0	135.0	215.0	103.3
37	DH-298			79.7					
38	APH27-B	79.3	21.0	80.0	85.0	87.3	137.7	215.0	126.7
	CHECKS	78.8	22.0		87.7	89.7	133.0	213.3	98.3
39	Vivek Hybrid 21(C)	78.8	15.5	79.3	87.3	89.7	136.7	215.0	90.0
40	Vivek Hybrid 43(C)	79.0	15.5	79.0	84.7	87.3	134.7	180.0	71.7
	Loc. Mean	**78.1**	**19.7**	**79.5**	**78.8**	**81.1**	**127.6**	**197.7**	**96.0**
	C.D. (5%)	0.49	1.00	2.40	2.63	2.47	2.35	8.80	6.18
	C.V. (%)	0.39	3.13	0.89	2.05	1.87	1.13	2.74	3.96
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 37 PERFORMANCE OF EXPERIMENTAL HYBRIDS AT SRINAGAR IN TRIAL No. TR66S DURING KHARIF 2016

Sl No	PEDIGREE	Grain Yield (kg/ha) ZN 1 SRIN	R	Grain Yield Sup. % over HM 9 © SRIN	R	Grain Yield Sup. % over BIO 9637 © SRIN	R	Grain Yield Sup. % over BIO PMH-4 © SRIN	R
1	BH 412084	5239	4	-		17.5		-	
2	HT 51412182	5086	5	-		14.1		-	
3	Seed Tech2324 (Filler)	5515	2	-		23.7		3	
4	Bio9681 (Filler)	4392	7	-		-		-	
	CHECKS								
5	HM 9(C)	5734	1	-		28.6		7.1	
6	BIO 9637(C)	4459	6	-		-		-	
7	PMH-4(C)	5355	3	-		20.1		-	
	Location Mean	**5111**							
	C.D. (5%)	276							
	C.V. (%)	3.01							
	F (Prob)	0							
	Plot Size	9.6							
	AGRONOMY DATA								
	Sowing Date	20-04							
	Harvest Date	27-09							
	Irrigation Nos	2							
	Ferilizer Applied N	120							
	Ferilizer Applied P	80							
	Ferilizer Applied K	60							

Table No. 7 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % SRIN	MOISTURE % AT HARVEST SRIN	STAND AT HARVEST SRIN	DAYS TO 50% POLLEN SHED SRIN	DAYS TO 50% SILKING SRIN	DAYS TO 75% DRY HUSK SRIN	PLANT HEIGHT(cm) SRIN	EAR HEIGHT(cm) SRIN
1	BH 412084	78.8	15.5	83.0	87.0	89.3	137.0	212.7	93.3
2	HT 51412182	79.0	15.5	82.6	84.3	87.0	134.7	175.0	72.7
3	Seed Tech2324 (Filler)	79.3	21.0	82.6	84.3	87.0	137.7	215.0	126.7
4	Bio9681 (Filler)	78.8	22.0	82.3	87.7	89.7	134.7	210.7	101.7
	CHECKS								
5	HM 9(C)	78.8	17.0	83.3	89.3	91.7	140.0	195.0	80.0
6	BIO 9637(C)	79.3	18.0	83.0	85.7	87.7	135.3	218.3	100.0
7	PMH-4(C)	78.8	19.0	83.3	83.7	86.0	135.0	215.0	103.3
	Loc. Mean	**78.9**	**18.3**	**82.9**	**86.0**	**88.3**	**136.3**	**206.0**	**96.8**
	C.D. (5%)	0.17	0.43	1.32	1.23	1.55	2.41	7.47	6.08
	C.V. (%)	0.12	1.33	0.90	0.80	0.99	0.99	2.04	3.53
	F (Prob)	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00

TABLE No. 38 **PERFORMANCE OF EXPERIMENTAL HYBRIDS AT SRINAGAR IN TRIAL No. TR71S DURING KHARIF 2016**

Sl No	PEDIGREE	GrainYield (kg/ha) ZN 1 SRIN	R	Grain Yield Sup. % over PMH-5 © SRIN	R	Grain Yield Sup. % over Parkash © SRIN	R
1	FH 3605	6835	2	22.4		5.2	
2	FH 3626	6172	4	10.5		-	
3	Bio 9720	5110	7	-		-	
4	Vivek Hybrid 21-Filler	5407	6	-		-	
5	Vivek Hybrid 43-C-Filler	7037	1	26		8.3	
	CHECKS						
6	PMH-5(C)	5584	5	-		-	
7	Parkash(C)	6498	3	16.4		-	
	Location Mean	**6092**					
	C.D. (5%)	257					
	C.V. (%)	2.34					
	F (Prob)	0					
	Plot Size	14.4					
	AGRONOMY DATA						
	Sowing Date	20-04					
	Harvest Date	20-09					
	Irrigation Nos	2					
	Ferilizer Applied N	120					
	Ferilizer Applied P	80					
	Ferilizer Applied K	60					

Table No. 38 (Contd.)

S.No.	PEDIGREE	GRAIN SHELLING % SRIN	MOISTURE % AT HARVEST SRIN	STAND AT HARVEST SRIN	DAYS TO 50% POLLEN SHED SRIN	DAYS TO 50% SILKING SRIN	DAYS TO 75% DRY HUSK SRIN	PLANT HEIGHT(cm) SRIN	EAR HEIGHT(cm) SRIN
1	FH 3605	76.8	17.0	54.9	71.7	74.3	120.3	186.0	88.3
2	FH 3626	76.0	20.0	54.9	77.0	79.3	127.7	210.3	84.3
3	Bio 9720	77.3	25.5	55.1	80.0	82.7	132.7	227.7	115
4	Vivek Hybrid 21-Filler	78.8	16.5	54.9	77.0	79.7	128.3	176.7	92.7
5	Vivek Hybrid 43-C-Filler	77.8	16.5	55.3	72.7	75.7	121.0	188.3	100.7
	CHECKS								
6	PMH-5(C)	77.8	25.5	55.1	77.7	79.7	129.7	236.0	134.3
7	Parkash(C)	77.8	17.5	55.1	72.7	75.3	124.0	184.3	94.3
	Loc. Mean	**77.4**	**19.8**	**55.0**	**75.5**	**78.1**	**126.2**	**201.3**	**101.4**
	C.D. (5%)	0.17	0.89	1.01	1.32	1.76	3.29	8.29	7.06
	C.V. (%)	0.12	2.53	1.03	0.98	1.27	1.46	2.31	3.91
	F (Prob)	0.00	0.00	0.93	0.00	0.00	0.00	0.00	0

AGRONOMY

Crop Production *kharif* 2016

Summary

The major agronomic research trial on maize based systems during *kharif* 2016 was focused on nutrient and planting density optimization for different maturity pre-released and notified maize hybrids, precision nutrient management, site specific nutrient management (SSNM) for maize hybrids and tillage practices, weed management in maize, and enhancing water-use efficiency in rainfed maize.

MAT-1: Evaluation of pre-release genotypes under varying planting density and nutrient levels

The pre-release medium maturing genotypes were evaluated under different nutrient levels (200:65:80 and 250:80:100 N:P_2O_5:K_2O kg/ha) in Northern Western Plain Zone (NWPZ) at Ludhiana and Pantnagar and Peninsular Zone (PZ) at Coimbatore and Hyderabad. In NWPZ, pre- release genotype C.P.-201 was found significantly superior at higher nutrient levels and high planting density (83,000) over the best check (PMH-4). While in PZ no entry was found significantly superior over best checks.

Pre release late maturing genotypes were evaluated under different nutrient levels at Dharwad and Karimnagar (PZ) and Banswara, Chhindwara at Central Western Zone (CWZ). The genotype DMH-192 yielded significantly higher yield over best check in PZ with high nutrient levels (250:80:100 N:P_2O_5:K_2O kg/ha) and planting density (83,000), while in CWZ, DKC9151 (IM8902) was found superior over best check (PMH-1) at low nutrient levels (200:65:80 N: P_2O_5: K_2O kg/ha) and higher planting density (83,000).

In speciality corn pre-release popcorn genotypes evaluated under different nutrient levels (150:50:60, 200:60:80 N: P_2O_5: K_2O kg/ha) in North Hill Zone (Almora and Bajaura), NWPZ (Ludhiana and Pantnagar), Northern Eastern Plain Zone (NEPZ) Bahraich and Bhubaneswar, PZ at Dharwad and Karimnagar and CWZ at Godhra and Udaipur. In all the zones, DMRHP-1402 (popcorn) genotype performed significantly superior over best check (VL Amber Popcorn) at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and higher planting density (83,000). The pre-release sweet corn genotypes evaluated under different nutrient levels and planting density in NHZ (BSCH-6 and FSVH-55), NWPZ (BSCH-6), NEPZ (BSCH-6 and FSVH-55) and PZ (BSCH-6) and CWZ (BSCH-6). In all the zones none of the sweet corn genotype responded significant superiority over best checks.

MAT-2: Nutrient management in maize-wheat-greengram cropping system under different tillage practices

The experiments were conducted at one location at Pantnagar to find out effective precision nutrient management *viz*; SSNM and tillage practices for achieving the higher yield under intensified cropping system. From the very beginning Planting of maize under zero tillage did not resulted significant difference over conventional tillage system. Amongst nutrient management practices SSNM and RDF resulted in significantly higher yield over farmer's fertilization practices (FFP.

MAT-4: Nutrient management in maize-chickpea/mustard/Oats cropping systems under different tillage practices.

The experiment was conducted at three locations (Srinagar, Delhi and Chhindwara) to find out effective SSNM and tillage practices for yield maximization in emerging cropping systems. Planting of maize under zero tillage resulted 7.1-11.6% higher yields over conventional tillage system at Srinagar and Delhi. However, the method of conventional tillage planting gave higher yield at Chhindwara. Amongst nutrient management practices, SSNM resulted in significantly higher yield at all centres, however, it remained at par with 100% RDF at Srinagar and Delhi.

MAT-5: Effect of planting density and nutrient management practices on the performance of hybrids in *kharif* season.

This experiment was conducted for yield maximization of popular maize hybrids through optimization of planting density and nutrient management at 22 locations in different agro-ecologies of the country. The popular maize hybrids responded to high density at two locations of NHZ i.e. Gossaingaon, Imphal (60x15 cm^2), two locations of NWPZ i.e. Ludhiana and Pantnagar (67.5x15 cm^2), two locations of NEPZ i.e. Bhubaneswar and Kalyani (50x20 cm^2) and two locations of CWZ i.e. Udaipur and Banswara (50x20 cm^2) over normal density, respectively. The response to normal planting density observed at one location of NHZ (Srinagar at 60x20 cm^2), one location of NWPZ (Karnal 67x20 cm^2),), three locations of NEPZ i.e. Bahraich, Dholi and Ranchi at 60 x 20 cm^2, one location of PZ (Dharwad at 60x20 cm^2) and one location of CWZ (Ambikapur at 60x20 cm^2). Amongst various nutrient management practices, SSNM resulted in significantly higher yield at locations Srinagar, Ludhiana, Ambikapur, Banswara and Chhindwara, Imphal, Gossaingaon while Soil test crop response (STCR) was found significantly

superior at 10 locations Bahraich, Bajaura, Pantnagar, Bhubaneswar, Dholi (STCR/RDF), Ranchi (SSNM/STCR), Kalyani, Hyderabad, Karimnagar, and Udaipur. However, RDF gave significantly higher yield at Udhampur, Coimbatore (RDF/STCR) but FFP gave higher yield at Godhra.

MAT 8: Long term trial on integrated nutrient management in maize- wheat cropping system

To explore the possibilities of integrated nutrient management by inclusion of organic sources in maize production this long term experiment was initiated during *kharif* 2014 at Pantnagar. After completion of three years, significantly higher maize grain yield (5.73 t/ha) was obtained with 100% RDF + 5 t/ha FYM, however, it remained at par with 100% RDF + 5 kg Zinc Sulphate (5.47 t/ha). In comparison to this Maize + Cowpea with FYM 10 t/ha + Azotobacter treatment resulted 24.6% lower yield (4.60 t/ha). On the contrary, economic analysis showed a new path for organic cultivation of maize and in second consecutive year it was found that maize + cowpea as intercrop with FYM 10 t/ha + Azotobacter resulted in highest net returns and B:C ratio of maize or maize-wheat system.

MAT 9: Weed management in maize systems.

The experiments conducted at 19 locations to find out the options of best weed management practices in maize based systems in different agro-climatic conditions during *kharif* 2016. At all the locations the treatments were T1: Control (weedy check), T2: Weed free, T3: Atrazine @ 1.5* kg/ha pre-emegence, T4: Atrazine (750 g /ha) + Pendemathalin (750 ml/ha) pre-emegence, T5: Atrazine (1.5 kg a.i./ha) fb 2,4-D Amine 0.4 kg a.i./ha at 25 DAS as PoE, T6: Halosulfuron 90 g/ha at 25 DAS, T7: Atrazine @ 1.5 kg a.i./ha pre-eminence fb Halosulfuron 90 g/ha 25 DAS, T8: Tembotrione (Laudis) 120 g a.i./ha PoE at 25 DAS, T9: Pendemathalin (1000 ml/ha) pre-eminence fb Atrazine (750 g a.i./ha) + 2,4-D Amine 0.4 kg a.i./ha at 25 DAS as PoE and T10: Atrazine @ 1.5 kg/ha pre-emegence fb Tembotrione (Laudis) 120 g a.i./ha PoE at 25 DAS. The results showed that two best weed management treatments were T10 and T9 at locations Bajaura, Ludhiana, Kalyani, Dharwad, Hyderabad, Ranchi and Karimnagar, T7 and T10 at Srinagar, Udhampur and Bahraich; T10 and T5 at Pantnagar and Chitrakoot; T10 and T4 at Bhubaneswar and Udaipur; T10 and T08 at Banswara; T5 and T8 at Imphal; T3 and T7 at Dholi, T3 and T4 at Chhindwara. For finding best post emergence herbicide it was found that T10

(Atrazine @ 1.5 kg/ha pre-eminence fb Tembotrione (Laudis) 120 g/ha PoE at 25 DAS) at 13 locations, while T7 (Atrazine @ 1.5 kg/ha pre-emegence fb Halosulfuron 60 g/ha 25 DAS) found effective for weed management in *kharif* maize at five locations (Srinagar, Udhampur, Karnal, Bahraich and Dholi)

MAT 10: Enhancing water-use efficiency in rainfed maize.

The experiments conducted at eight locations to find out practices for enhancing water-use efficiency in rainfed maize in different agro-climatic conditions during *kharif* 2016. The rainfed maize responded to zero tillage + mulch at Srinagar, Hisar, Dholi, Karimnagar and Chhindwara locations and resulted yield enhancement by 7.6, 34.8, 21.9, 48.7 and 24.7% higher yield over conventional tillage without mulch, respectively. While response to conventional tillage with mulch was observed at Bhubaneswar only. Amongst various hydrogel treatments the application of hydrogel @5.0 kg/ha resulted yield increment by 2.8, 17.6, 9.1, 8.6, 9.9 and 14.6% at Srinagar, Imphal, Hisar, Dholi, Bhubaneswar, and Chhindwara locations, respectively over no hydrogel application.

MAT-11 Phosphorus Bio-fertilizers evaluation in maize

The experiment was initiated to identify potential bio-fertilizer in maize in collaboration with ICAR-National Bureau of Agriculturally Important Microforage (NBIAM) during *kharif* 2016. The treatment consisted of T1: Control (Recommended N and K), T2:PSB-I, T3: PSB-II, T4: NPK Consortia, T5: 60 kg P_2O_5/ha, T6: 30 kg P_2O_5/ha + PSB-I, T7: 60 kg P_2O_5/ha + PSB-I, T8: 30 kg P_2O_5/ha + PSB-II, T9: 60 kg P_2O_5/ha + PSB-II, T10: 30 kg P_2O_5/ha + NPK Consortia, T11: 60 kg P_2O_5/ha + NPK Consortia, T12: 90 kg P_2O_5/ha. The result reveals that T11- 60 kg P_2O_5/ha + NPK Consortia treatment combination produced highest yield at Karnal, Ludhiana, Bhubaneswar, Kalyani, Dharwad, Jhabua and Udaipur. However, T9 (60 kg P_2O_5/ha + PSB-II) treatment combination produced highest yield at 5 locations(Srinagar, Imphal, Pantnagar, Ambikapur and Ranchi) and T10 (30 kg P_2O_5/ha + NPK Consortia) resulted highest yield at 3 locations (Kanpur, Karimnagar and Vagarai). However the response of T7 (60 kg P_2O_5/ha + PSB-I) treatment at Bahraich and Chhindwara and T3 (PSB-II) at Dholi, and T4 (NPK Consortia) at Kolhapur reported. On the other hand T1- Control (Recommended N and K) was found highest yielder at Gossaingaon and Coimbatore. From significance point of view different strain of phosphorus bio-fertilizers were at par, hence any one can be used for maize.

MAT-12 Optimization of potassium fertilization for eastern India

This experiment was initiated in *kharif* 2016 with the objective to work out economic optimum dose of potassium in maize for eastern India at 5 locations Bahraich, Dholi, Ranchi, Ambikapur and Kalyani. The treatment comprises of graded doses of K_2O from 0-150 kg/ha. Results revealed that potassium dose of 150 kg/ha resulted in significant increase at Ranchi and Ambikapur, while at Dholi it responded upto 120 kg/ha and at Kalyani and Bahraich upto 60 kg/ha only. It was inferred that there is variable response of maize to the potassium fertilization in Eastern India.

Table 1: Performance of pre release medium maturity genotypes in *Kharif* under varying planting density and nutrients levels in North West Plain Zone (NWPZ).

Density	N:P_2O_5:K_2O	Genotypes	Grain yield (kg/ha)		Mean (NWPZ)	Stover yield (kg/ha)		Plants ('000/ha)	
			Ludhiana	Pantnagar		Ludhiana	Pantnagar	Ludhiana	Pantnagar
66,000	200:65:80	C.P 201	7300	8725	8013	11315	12667	64.8	61.1
		Bio 9637(C)	7052	6842	6947	1778	10000	64.1	60.0
		HM9(C)	5837	5633	5735	9047	9889	60.4	56.7
		PMH4-C	7689	7722	7706	11918	11556	63.0	63.3
	250:80:100	C.P 201	8078	8783	8430	12521	14056	64.1	64.4
		Bio 9637(C)	7400	7189	7295	11470	13111	63.3	60.0
		HM9(C)	6500	6005	6253	10075	12111	64.1	61.1
		PMH4-C	7985	8195	8090	12377	12111	62.2	60.0
83,000	200:65:80	C.P 201	8204	9309	8756	12716	13034	77.8	78.0
		Bio 9637(C)	8422	8300	8361	13054	13355	80.0	79.1
		HM9(C)	6300	6351	6325	9765	10577	78.9	70.5
		PMH4-C	7748	8132	7940	12010	12393	80.0	72.6
	250:80:100	C.P 201	10178	9904	10041	15776	13675	77.8	75.9
		Bio 9637(C)	9252	8497	8875	14340	14423	77.8	69.4
		HM9(C)	6811	6906	6859	10557	11859	77.8	78.0
		PMH4-C	8219	8293	8256	12739	13462	75.6	74.8
Mean of location			7686	7799	7743	11341	12392	70.7	67.8
66,000			7230	7387	7309	10063	11938	63.2	60.8
83,000			8142	8212	8177	12620	12847	78.2	74.8
CD at 5%			885.5	803.6	844.6	963.2	NS	4.8	8.8
CV (%)			9.3	8.3	8.8	6.8	14.2	5.4	10.4
200:65:80			7319	7627	7473	10200	11684	71.1	67.7
250:80:100			8053	7972	8012	12482	13101	70.3	68.0
CD at 5%			NS	NS	NS	1076.9	1178.7	NS	NS
CV (%)			13.5	7.4	10.4	11.8	11.9	4.4	3.6
C.P 201			8440	9180	8810	13082	13358	71.1	69.9
Bio 9637(C)			8031	7707	7869	10161	12722	71.3	67.1
HM9(C)			6362	6224	6293	9861	11109	70.3	66.6
PMH4-C			7910	8086	7998	12261	12380	70.2	67.7
CD at 5%			602.4	383.0	492.7	932.2	1463.7	NS	NS
CV (%)			9.3	5.8	7.6	9.8	14.0	3.5	9.7

Cont….

Density	N:P_2O_5:K_2O	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling	
			Ludhiana	Pantnagar	Ludhiana	Pantnagar	Ludhiana	Pantnagar
66,000	200:65:80	C.P 201	62.2	64.4	173.0	192.6	57.3	53.7
		Bio 9637(C)	61.1	63.3	175.0	196.7	58.0	54.0
		HM9(C)	57.0	60.0	165.0	187.2	55.0	51.3
		PMH4-C	60.4	65.6	168.3	185.7	50.3	52.0
	250:80:100	C.P 201	61.1	65.6	181.3	195.8	52.7	53.7
		Bio 9637(C)	61.1	63.3	175.7	198.5	55.3	53.3
		HM9(C)	61.1	64.4	167.3	189.9	51.3	50.7
		PMH4-C	58.9	63.3	169.7	188.1	52.0	51.0
83,000	200:65:80	C.P 201	74.8	81.2	180.0	200.6	57.3	54.3
		Bio 9637(C)	77.0	81.2	181.7	198.5	58.0	53.3
		HM9(C)	75.9	73.7	169.0	190.9	56.7	50.3
		PMH4-C	77.4	74.8	175.3	191.0	54.3	50.3
	250:80:100	C.P 201	75.9	79.1	183.3	202.5	57.0	54.0
		Bio 9637(C)	74.4	72.6	199.0	202.7	56.0	54.0
		HM9(C)	74.8	80.1	169.7	191.7	56.0	51.7
		PMH4-C	72.6	78.0	176.3	192.2	52.7	49.7
Mean of location			67.9	70.7	175.6	194.0	55.0	52.3
66,000			60.4	63.8	171.9	191.8	54.0	52.5
83,000			75.4	77.6	179.3	196.3	56.0	52.2
CD at 5%			3.9	5.9	NS	2.8	NS	NS
CV (%)			4.6	6.7	3.6	1.2	4.0	2.1
200:65:80			68.2	70.5	173.4	192.9	55.9	52.4
250:80:100			67.5	70.8	177.8	195.2	54.1	52.3
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			4.6	3.4	4.2	4.6	6.1	1.2
C.P 201			68.5	72.6	179.4	197.9	56.1	53.9
Bio 9637(C)			68.4	70.1	182.8	199.1	56.8	53.7
HM9(C)			67.2	69.6	167.8	189.9	54.8	51.0
PMH4-C			67.3	70.4	172.4	189.2	52.3	50.8
CD at 5%			NS	NS	6.8	4.3	1.4	0.4
CV (%)			3.8	7.2	4.6	2.6	3.1	0.9

Cont….

Density	N:P_2O_5:K_2O	Genotypes	Days to 50% silking		100-seed weight (g)	Barren plants ('000/ha)	Net returns (Rs/ha)		BC ratio	
			Ludhiana	Pantnagar	Pantnagar	Ludhiana	Ludhiana	Pantnagar	Ludhiana	Pantnagar
66,000	200:65:80	C.P 201	59.7	56.7	32.8	2593	59847	89047	1.24	2.96
		Bio 9637(C)	60.0	57.3	27.7	2963	47022	63344	0.98	2.11
		HM9(C)	56.7	54.7	30.2	3333	38195	46839	0.79	1.56
		PMH4-C	52.7	54.7	31.7	2593	65602	75353	1.36	2.51
	250:80:100	C.P 201	54.3	57.0	32.8	2963	65126	87650	1.20	2.72
		Bio 9637(C)	57.7	56.0	28.2	2222	55095	65896	1.01	2.04
		HM9(C)	53.7	53.3	30.4	2963	41775	49735	0.77	1.54
		PMH4-C	53.7	53.0	32.5	3333	63756	79629	1.17	2.47
83,000	200:65:80	C.P 201	59.3	57.3	31.8	2963	72332	96509	1.47	3.16
		Bio 9637(C)	60.0	56.3	27.2	2963	75566	82738	1.54	2.71
		HM9(C)	58.7	54.3	29.8	2963	44157	56133	0.90	1.84
		PMH4-C	56.3	54.3	31.4	2593	65589	80447	1.34	2.63
	250:80:100	C.P 201	59.0	57.0	32.5	1852	95316	102455	1.72	3.13
		Bio 9637(C)	58.0	57.0	27.4	3333	81612	83254	1.48	2.54
		HM9(C)	58.0	55.0	30.2	2963	45489	61532	0.82	1.88
		PMH4-C	54.7	53.0	32.2	2963	66319	80462	1.20	2.46
Mean of location			57.0	55.4	30.5	2847	61425	75064	1.19	2.39
66,000			56.0	55.3	30.8	2870	54552	69686	1.06	2.24
83,000			58.0	55.5	30.3	2824	68298	80441	1.31	2.54
CD at 5%			NS	NS	NS	NS	12688.8	NS	NS	NS
CV (%)			2.9	1.9	10.0	31.4	16.6	11.8	17.9	12.0
200:65:80			57.9	55.7	30.3	2870	58539	73801	1.20	2.43
250:80:100			56.1	55.2	30.8	2824	64311	76327	1.17	2.35
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			5.9	1.2	1.8	34.3	24.6	10.4	25.3	10.5
C.P 201			58.1	57.0	32.5	2593	73155	93915	1.41	2.99
Bio 9637(C)			58.9	56.7	27.6	2870	64824	73808	1.25	2.35
HM9(C)			56.8	54.3	30.1	3056	42404	53560	0.82	1.70
PMH4-C			54.3	53.8	31.9	2870	65317	78973	1.27	2.52
CD at 5%			1.4	0.4	1.5	NS	8872.4	5227.8	0.2	0.2
CV (%)			2.9	0.9	5.7	18.7	17.1	8.3	17.5	8.3

Table 2: Performance of pre release medium maturity genotypes in *Kharif* under varying planting density and nutrients levels in Peninsular Zone (PZ).

Density	$N:P_2O_5:K_2O$	Genotypes	Grain yield (kg/ha)		Mean (PWZ)	Stover yield (kg/ha)		Plants ('000/ha)	
			Coimbatore	Hyderabad		Coimbatore	Hyderabad	Coimbatore	Hyderabad
83,000	200:65:80	JH 31605	6126	7437	6782	8638	8193	81.7	71.0
		JKMH 4848	6689	7573	7131	9431	8113	81.3	76.4
		Bio 9637(C)	7231	7040	7136	10196	8100	80.6	73.7
		HM9(C)	5013	6217	5615	7068	7650	81.0	70.3
		PMH4-C	5518	6715	6117	7780	8082	80.8	75.5
	250:80:100	JH 31605	6439	7733	7086	9401	9495	80.3	69.6
		JKMH 4848	7031	7823	7427	10265	10050	80.8	73.5
		Bio 9637(C)	7597	7263	7430	11092	8140	81.0	68.6
		HM9(C)	5271	6417	5844	7696	7973	80.6	70.0
		PMH4-C	5803	6897	6350	8472	7970	80.6	67.4
100,000	200:65:80	JH 31605	6651	7557	7104	9245	8890	97.4	84.7
		JKMH 4848	7263	7770	7517	10096	9357	97.0	94.4
		Bio 9637(C)	7851	7237	7544	10913	8127	97.7	85.3
		HM9(C)	5443	6593	6018	7566	7357	96.5	85.0
		PMH4-C	5992	7110	6551	8329	7957	98.4	83.3
	250:80:100	JH 31605	6994	8477	7735	9789	9817	98.4	88.7
		JKMH 4848	7634	8273	7954	10688	10117	96.7	62.5
		Bio 9637(C)	8251	7720	7986	11551	8403	97.2	89.7
		HM9(C)	5724	7493	6609	8014	7363	97.7	83.5
		PMH4-C	6298	7803	7051	8817	7653	97.2	88.6
Mean of location			6541.1	7357.4	6949.2	9252.4	8440.3	89.1	78.1
83,000			6272	7112	6692	9004	8377	80.9	71.6
100,000			6810	7603	7207	9501	8504	97.4	84.6
CD at 5%			NS	347.9	347.9	NS	NS	0.8	8.9
CV (%)			12.3	4.3	8.3	17.0	7.4	0.8	10.3
200:65:80			6378	7125	6751	8926	8183	89.2	80.0
250:80:100			6704	7590	7147	9579	8698	89.1	76.2
CD at 5%			NS	233.0	233.0	NS	425.8	NS	NS
CV (%)			10.2	4.4	7.3	9.9	7.0	1.5	16.1
JH 31605			6553	7801	7177	9268	9099	89.5	78.5
JKMH 4848			7154	7860	7507	10120	9409	89.0	76.7
Bio 9637(C)			7733	7315	7524	10938	8193	89.1	79.3
HM9(C)			5363	6680	6021	7586	7586	88.9	77.2
PMH4-C			5903	7131	6517	8350	7915	89.2	78.7
CD at 5%			653.0	497.5	575.2	946.3	626.2	NS	NS
CV (%)			12.0	8.1	10.1	12.3	8.9	1.8	14.2

Cont….

Density	$N:P_2O_5:K_2O$	Genotypes	Cobs ('000/ha)		Plant height (cm)		Ear Height (cm)	Days to maturity
			Coimbatore	Hyderabad	Coimbatore	Hyderabad	Hyderabad	Hyderabad
83,000	200:65:80	JH 31605	77.6	71.0	189.7	204.3	77.2	96.7
		JKMH 4848	77.6	73.4	199.1	215.3	80.8	97.7
		Bio 9637(C)	77.8	70.2	206.9	210.7	90.0	96.0
		HM9(C)	79.2	72.2	171.2	201.8	76.9	95.7
		PMH4-C	77.8	69.9	177.4	201.0	84.6	96.0
	250:80:100	JH 31605	77.6	69.9	194.6	211.8	89.1	98.7
		JKMH 4848	78.5	72.9	204.2	222.0	81.5	98.7
		Bio 9637(C)	78.3	69.0	212.3	204.4	83.1	97.3
		HM9(C)	77.6	67.5	175.5	188.1	69.6	97.7
		PMH4-C	77.3	67.3	181.9	182.1	66.4	97.0
100,000	200:65:80	JH 31605	94.7	75.5	191.9	197.0	73.3	99.0
		JKMH 4848	94.0	81.5	201.4	209.6	72.3	100.3
		Bio 9637(C)	94.9	74.1	209.4	213.8	93.5	98.7
		HM9(C)	92.8	70.2	173.1	194.8	74.6	98.0
		PMH4-C	95.8	73.2	179.4	189.8	72.6	97.7
	250:80:100	JH 31605	96.5	75.1	196.6	225.7	95.6	101.3
		JKMH 4848	94.4	77.3	206.4	234.4	92.4	102.3
		Bio 9637(C)	95.4	73.1	214.5	221.8	93.0	100.7
		HM9(C)	94.9	73.8	177.5	194.3	69.3	98.3
		PMH4-C	94.7	73.5	183.9	189.5	74.8	99.0
Mean of location			86.4	72.5	192.3	205.6	80.5	98.3
83,000			77.9	70.3	191.3	204.2	79.9	97.1
100,000			94.8	74.7	193.4	207.1	81.1	99.5
CD at 5%			1.1	NS	NS	NS	NS	1.1
CV (%)			1.1	17.6	20.4	4.7	3.9	1.0
200:65:80			86.2	73.1	190.0	203.8	79.6	97.6
250:80:100			86.5	71.9	194.7	207.4	81.5	99.1
CD at 5%			NS	NS	NS	NS	NS	1.0
CV (%)			1.9	3.2	4.7	10.1	19.6	1.5
JH 31605			86.6	72.9	193.2	209.7	83.8	98.9
JKMH 4848			86.1	76.3	202.8	220.3	81.8	99.8
Bio 9637(C)			86.6	71.6	210.8	212.7	89.9	98.2
HM9(C)			86.1	70.9	174.3	194.8	72.6	97.4
PMH4-C			86.4	71.0	180.7	190.6	74.6	97.4
CD at 5%			NS	1.8	19.9	6.9	4.6	0.7
CV (%)			2.1	3.0	12.4	4.1	6.9	0.9

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Density	$N:P_2O_5:K_2O$	Genotypes	Days to 50% tasseling		Days to 50% silking		100-seed weight (g)	
			Coimbatore	Hyderabad	Coimbatore	Hyderabad	Coimbatore	Hyderabad
83,000	200:65:80	JH 31605	47.0	57.0	49.0	59.0	36.9	32.0
		JKMH 4848	47.3	57.0	49.3	59.0	37.7	32.5
		Bio 9637(C)	47.7	57.0	50.0	59.0	38.3	33.7
		HM9(C)	46.3	56.3	48.7	58.3	35.4	32.3
		PMH4-C	46.7	57.0	48.7	58.7	36.0	30.6
	250:80:100	JH 31605	47.3	59.0	49.7	61.7	37.8	33.4
		JKMH 4848	47.7	60.0	49.3	62.0	38.3	34.1
		Bio 9637(C)	48.3	61.0	50.7	63.0	38.7	36.9
		HM9(C)	46.7	59.7	48.7	61.7	36.3	29.3
		PMH4-C	47.3	61.0	49.0	63.0	36.8	33.0
100,000	200:65:80	JH 31605	46.3	60.0	48.0	61.7	36.6	36.4
		JKMH 4848	46.3	60.0	48.3	61.7	37.2	31.8
		Bio 9637(C)	46.7	60.0	48.7	62.7	37.7	30.7
		HM9(C)	45.3	59.7	47.7	62.0	35.2	33.4
		PMH4-C	45.7	59.7	47.7	61.7	35.7	36.6
	250:80:100	JH 31605	46.7	60.7	48.7	62.0	36.9	33.0
		JKMH 4848	47.0	60.7	49.3	62.0	37.5	34.6
		Bio 9637(C)	47.3	61.7	49.7	62.3	38.0	33.8
		HM9(C)	46.0	60.0	48.3	62.0	35.2	35.2
		PMH4-C	46.3	59.7	48.7	61.7	35.8	35.9
Mean of location			46.8	59.4	48.9	61.3	36.9	33.5
83,000			47.2	58.5	49.3	60.5	37.2	32.8
100,000			46.4	60.2	48.5	62.0	36.6	34.2
CD at 5%			0.6	0.7	0.7	0.1	NS	NS
CV (%)			1.2	1.0	1.2	0.2	5.3	5.1
200:65:80			46.5	58.4	48.6	60.4	36.7	33.0
250:80:100			47.1	60.3	49.2	62.1	37.1	33.9
CD at 5%			NS	0.8	NS	0.9	NS	NS
CV (%)			2.7	2.0	1.8	2.0	10.0	4.9
JH 31605			46.8	59.2	48.8	61.1	37.1	33.7
JKMH 4848			47.1	59.4	49.1	61.2	37.7	33.3
Bio 9637(C)			47.5	59.9	49.8	61.8	38.2	33.8
HM9(C)			46.1	58.9	48.3	61.0	35.5	32.6
PMH4-C			46.5	59.3	48.5	61.3	36.1	34.0
CD at 5%			NS	NS	1.0	NS	NS	NS
CV (%)			3.1	1.9	2.4	1.4	11.7	6.8

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Density	$N:P_2O_5:K_2O$	Genotypes	Net returns (Rs./ha)		BC ratio		Cob length (cm)	
			Coimbatore	Hyderabad	Coimbatore	Hyderabad	Coimbatore	Hyderabad
83,000	200:65:80	JH 31605	52108	62393	2.1	2.33	17.2	17.8
		JKMH 4848	61341	64172	2.3	2.37	17.7	16.6
		Bio 9637(C)	70241	56905	2.5	2.21	17.9	17.1
		HM9(C)	33843	45258	1.7	1.96	16.3	16.5
		PMH4-C	42125	52467	1.9	2.12	16.7	16.5
	250:80:100	JH 31605	55884	65644	2.1	2.34	17.8	16.9
		JKMH 4848	65628	67423	2.3	2.38	18.3	16.6
		Bio 9637(C)	74945	57897	2.5	2.18	18.6	16.6
		HM9(C)	36664	46216	1.7	1.94	16.8	17.2
		PMH4-C	45420	52741	1.9	2.08	17.2	17.6
100,000	200:65:80	JH 31605	57905	63822	2.1	2.33	16.9	16.8
		JKMH 4848	67931	67190	2.3	2.40	17.4	17.2
		Bio 9637(C)	77573	58706	2.5	2.23	17.6	17.4
		HM9(C)	38101	49187	1.7	2.03	16.1	18.8
		PMH4-C	47099	56814	1.9	2.19	16.4	16.6
	250:80:100	JH 31605	61912	75175	2.2	2.51	17.5	16.9
		JKMH 4848	72411	72710	2.4	2.46	17.9	17.2
		Bio 9637(C)	82529	63471	2.6	2.27	18.2	17.3
		HM9(C)	41087	59349	1.8	2.19	16.6	16.4
		PMH4-C	50500	63855	2.0	2.28	16.9	17.6
Mean of location			56762.4	60069.7	2.1	2.24	17.3	17.1
83,000			53820	57112	2.1	2.19	17.5	17.0
100,000			59705	63028	2.1	2.29	17.2	17.2
CD at 5%			NS	5159.3	NS	NS	NS	NS
CV (%)			24.0	7.7	13.0	4.2	18.4	3.0
200:65:80			54827	57691	2.1	2.22	17.0	17.1
250:80:100			58698	62448	2.1	2.26	17.6	17.0
CD at 5%			NS	3469.5	NS	NS	NS	NS
CV (%)			19.1	8.1	10.0	4.4	6.5	2.5
JH 31605			56952	66759	2.1	2.38	17.4	17.1
JKMH 4848			66828	67874	2.3	2.40	17.8	16.9
Bio 9637(C)			76322	59245	2.5	2.22	18.1	17.1
HM9(C)			37424	50002	1.7	2.03	16.5	17.2
PMH4-C			46286	56469	1.9	2.17	16.8	17.1
CD at 5%			10100.4	6622.2	0.2	0.1	NS	NS
CV (%)			21.4	13.3	11.2	7.4	10.2	3.6

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Density	N:P_2O_5:K_2O	Genotypes	Cob girth (cm)		Grain rows/cob		Grains/row	
			Coimbatore	Hyderabad	Coimbatore	Hyderabad	Coimbatore	Hyderabad
83,000	200:65:80	JH 31605	14.1	14.4	14.8	14.0	37.0	35.7
		JKMH 4848	14.4	15.3	15.3	17.0	37.5	36.7
		Bio 9637(C)	14.6	14.8	15.3	14.4	37.9	31.3
		HM9(C)	13.5	14.0	14.4	14.0	35.7	30.0
		PMH4-C	13.7	13.9	14.5	13.5	36.4	33.0
	250:80:100	JH 31605	14.4	14.9	15.3	14.0	37.5	37.3
		JKMH 4848	14.8	14.9	15.5	14.8	37.9	38.7
		Bio 9637(C)	14.9	15.0	15.7	15.6	38.5	32.7
		HM9(C)	13.6	14.3	14.4	14.0	36.2	33.3
		PMH4-C	13.9	14.3	14.8	13.8	36.8	34.3
100,000	200:65:80	JH 31605	13.6	15.6	14.0	15.3	36.2	34.0
		JKMH 4848	13.9	13.8	14.4	12.7	36.6	35.3
		Bio 9637(C)	14.1	13.9	14.8	12.9	37.1	30.7
		HM9(C)	13.1	14.1	13.7	12.2	34.8	29.0
		PMH4-C	13.2	14.0	13.9	14.6	35.4	31.3
	250:80:100	JH 31605	13.9	15.1	14.5	14.2	36.8	35.7
		JKMH 4848	14.1	15.5	14.8	16.7	37.4	36.7
		Bio 9637(C)	14.4	14.2	15.3	14.6	37.6	33.3
		HM9(C)	13.2	13.6	13.9	13.8	35.3	30.7
		PMH4-C	13.5	13.8	14.1	12.2	36.1	33.3
Mean of location			13.9	14.5	14.7	14.2	36.8	33.7
83,000			14.2	14.6	15.0	14.5	37.2	34.3
100,000			13.7	14.4	14.3	13.9	36.3	33.0
CD at 5%			NS	NS	NS	NS	NS	1.1
CV (%)			16.2	2.0	10.7	5.1	7.3	2.9
200:65:80			13.8	14.4	14.5	14.1	36.5	32.7
250:80:100			14.1	14.6	14.8	14.4	37.0	34.6
CD at 5%			NS	NS	NS	NS	NS	0.6
CV (%)			10.8	2.3	5.3	4.7	10.1	2.5
JH 31605			14.0	15.0	14.7	14.4	36.9	35.7
JKMH 4848			14.3	14.9	15.0	15.3	37.4	36.8
Bio 9637(C)			14.5	14.5	15.3	14.4	37.8	32.0
HM9(C)			13.4	14.0	14.1	13.5	35.5	30.8
PMH4-C			13.6	14.0	14.3	13.5	36.2	33.0
CD at 5%			NS	0.5	NS	0.7	NS	1.5
CV (%)			10.9	4.1	8.4	5.5	12.8	5.4

Table 3: Performance of pre release late maturity genotypes under in *Kharif* varying planting density and nutrients levels in Peninsular Zone (PZ).

Density	$N:P_2O_5:K_2O$	Genotypes	Grain yield (kg/ha)		Mean (PZ)	Cob yield (kg/ha)	Stover yield (kg/ha)		Plants ('000/ha)
			Dharwad	Karimnagar		Karimnagar	Dharwad	Karimnagar	Dharwad
83,000	200:65:80	HT 51412616	6567	7068	6818	8877	8762	10529	77.2
		DMH192	6527	8528	7528	10829	8797	10411	76.0
		ADV 0990296	6129	8355	7242	10700	8366	11822	76.8
		Seed tech 2324(C)	6048	7778	6913	9910	8201	10522	76.8
		Bio -9681(C)	6556	6158	6357	8041	8720	8952	75.6
		PMH 1 (C)	6754	7845	7299	10130	9097	10344	75.6
	250:80:100	HT 51412616	6752	8362	7557	10681	8942	11911	76.4
		DMH192	6659	10166	8412	12900	8858	11637	77.6
		ADV 0990296	6306	9335	7820	11613	8497	11726	77.6
		Seed tech 2324(C)	6220	8686	7453	11195	8357	10415	76.8
		Bio -9681(C)	6701	6951	6826	8850	8905	9500	76.4
		PMH 1 (C)	6988	7819	7404	10340	9082	11052	76.0
100,000	200:65:80	HT 51412616	6421	8047	7234	10416	8598	12252	89.2
		DMH192	6397	9843	8120	12600	8507	11541	93.2
		ADV 0990296	6002	8888	7445	11344	8074	11118	91.2
		Seed tech 2324(C)	5915	7861	6888	10279	8089	11474	93.2
		Bio -9681(C)	6347	6676	6512	8636	8578	9326	94.4
		PMH 1 (C)	6456	7803	7129	10209	8800	12567	92.0
	250:80:100	HT 51412616	6551	9146	7849	11488	8627	11122	93.2
		DMH192	6488	9831	8160	13228	8694	10215	93.2
		ADV 0990296	6052	9795	7924	12365	8272	12241	91.6
		Seed tech 2324(C)	6027	8780	7404	11306	8107	12151	92.0
		Bio -9681(C)	6472	6812	6642	8901	8609	9544	93.2
		PMH 1 (C)	6714	8949	7831	11695	8950	10485	92.8
Mean of location			6418.7	8311.8	7365.2	10688.8	8603.8	10952.3	84.5
83,333			6517	8088	7302	10339	8715	10735	76.6
100,000			6320	8536	7428	11039	8492	11170	92.4
CD at 5%			80.3	NS	80.3	680.8	NS	NS	3.39
CV (%)			0.34	10.5	5.4	6.3	1.6	16.3	1.1
200:65:80			6343	7904	7124	10164	8549	10905	84.3
250:80:100			6494	8719	7607	11213	8658	11000	84.7
CD at 5%			47.38	NS	47.4	NS	89.09	NS	NS
CV (%)			0.6	17.2	8.9	18.4	0.8	15.8	2.6
HT 51412616			6573	8156	7364	10366	8732	11453	84.0
DMH192			6518	9592	8055	12389	8714	10951	85.0
ADV 0990296			6122	9094	7608	11505	8302	11727	84.3
Seed tech 2324(C)			6053	8276	7164	10673	8189	11140	84.7
Bio -9681(C)			6519	6650	6584	8607	8703	9330	84.9
PMH 1 (C)			6728	8104	7416	10594	8983	11112	84.1
CD at 5%			209.63	643.9	426.8	842.1	191.13	1224.8	NS
CV (%)			3.1	9.4	6.3	9.5	2.1	13.6	1.4

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Density	$N:P_2O_5:K_2O$	Genotypes	Cobs ('000/ha)	Plant height (cm)		Ear height (cm)	Days to 50% tasseling	
			Dharwad	Dharwad	Karimnagar	Karimnagar	Dharwad	Karimnagar
83,333	200:65:80	HT 51412616	74.8	212.8	187.0	79.0	50.5	57.0
		DMH192	74.8	213.8	203.7	73.7	51.0	55.3
		ADV 0990296	75.2	203.4	195.0	74.3	51.0	56.7
		Seed tech 2324(C)	75.2	210.4	200.7	88.0	50.5	58.3
		Bio -9681(C)	74.0	216.3	201.3	67.0	51.0	54.3
		PMH 1 (C)	74.0	227.3	212.7	92.7	50.0	57.0
	250:80:100	HT 51412616	73.6	214.3	189.7	77.7	50.5	57.3
		DMH192	75.2	216.9	202.3	78.0	51.0	54.0
		ADV 0990296	75.2	207.9	185.7	65.7	51.0	51.7
		Seed tech 2324(C)	74.8	212.1	186.3	79.7	51.0	55.0
		Bio -9681(C)	74.0	222.7	193.7	72.0	50.5	57.0
		PMH 1 (C)	74.0	233.3	210.0	91.0	50.5	56.3
100,000	200:65:80	HT 51412616	87.2	208.0	182.0	76.0	51.5	56.7
		DMH192	90.4	209.8	203.0	77.3	51.0	56.3
		ADV 0990296	89.2	202.8	181.3	68.3	50.5	55.3
		Seed tech 2324(C)	91.2	207.8	185.0	84.3	51.0	54.7
		Bio -9681(C)	91.2	212.7	203.7	60.0	50.5	52.7
		PMH 1 (C)	90.0	216.7	211.0	98.7	50.5	56.0
	250:80:100	HT 51412616	90.8	206.1	179.3	82.0	51.0	55.3
		DMH192	91.6	207.7	207.3	85.7	51.0	52.3
		ADV 0990296	90.4	205.2	188.7	77.3	50.5	51.7
		Seed tech 2324(C)	90.0	204.9	195.3	91.7	51.0	53.7
		Bio -9681(C)	90.8	209.7	190.0	72.3	51.0	54.3
		PMH 1 (C)	90.4	221.6	216.7	101.3	50.5	56.0
Mean of location			82.4	212.7	196.3	79.7	50.8	55.2
83,333			74.6	215.9	197.3	78.2	50.7	55.8
100,000			90.3	209.4	195.3	81.3	50.8	54.6
CD at 5%			1.27	0.69	NS	NS	NS	NS
CV (%)			0.42	0.09	4.5	8.2	0.28	3.5
200:65:80			82.3	211.8	197.2	78.3	50.8	55.9
250:80:100			82.6	213.5	195.4	81.2	50.8	54.6
CD at 5%			NS	1.13	NS	NS	NS	0.8
CV (%)			2.45	0.43	7.7	10.9	1.42	2.3
HT 51412616			81.6	210.3	184.5	78.7	50.9	56.6
DMH192			83.0	212.0	204.1	78.7	51.0	54.5
ADV 0990296			82.5	204.8	187.7	71.4	50.8	53.8
Seed tech 2324(C)			82.8	208.8	191.8	85.9	50.9	55.4
Bio -9681(C)			82.5	215.4	197.2	67.8	50.8	54.6
PMH 1 (C)			82.1	224.7	212.6	95.9	50.4	56.3
CD at 5%			NS	3.34	8.9	6.4	NS	1.4
CV (%)			1.46	1.50	5.5	9.7	2.01	3.1

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Density	N:P_2O_5:K_2O	Genotypes	Days to 50% silking		100-seed weight (g)		Shelling (%)	Insect-pest and disease incidence, if any
			Dharwad	Karimnagar	Dharwad	Karimnagar	Karimnagar	Dharwad
83,333	200:65:80	HT 51412616	55.0	59.0	32.4	37.0	79.6	1.5
		DMH192	55.5	57.3	35.3	44.3	78.8	1.0
		ADV 0990296	56.0	58.7	28.9	39.0	78.2	6.5
		Seed tech 2324(C)	55.5	60.3	33.8	39.0	78.5	6.0
		Bio -9681(C)	55.0	56.7	32.4	33.7	76.7	1.0
		PMH 1 (C)	56.0	59.0	34.4	39.3	77.4	0.0
	250:80:100	HT 51412616	55.0	59.3	27.9	37.3	78.3	1.5
		DMH192	56.0	56.0	38.4	42.7	78.8	1.5
		ADV 0990296	55.5	54.3	31.2	37.0	80.4	6.5
		Seed tech 2324(C)	56.0	57.7	32.4	37.0	77.7	6.0
		Bio -9681(C)	56.5	59.7	36.7	34.0	78.5	1.5
		PMH 1 (C)	55.5	58.7	38.1	39.3	75.7	0.0
100,000	200:65:80	HT 51412616	56.0	58.7	30.1	39.3	77.2	2.0
		DMH192	55.5	58.7	32.3	43.7	78.1	1.5
		ADV 0990296	56.0	57.3	28.7	37.7	78.4	5.5
		Seed tech 2324(C)	56.0	57.0	32.3	40.0	76.4	5.0
		Bio -9681(C)	55.0	55.0	31.0	34.3	77.0	1.5
		PMH 1 (C)	56.0	58.0	35.8	38.0	76.7	0.0
	250:80:100	HT 51412616	56.0	57.7	30.4	39.7	79.7	2.5
		DMH192	56.5	54.3	34.4	36.0	74.8	1.5
		ADV 0990296	56.5	54.3	25.2	36.7	79.7	5.0
		Seed tech 2324(C)	55.5	56.0	36.5	40.3	77.6	5.5
		Bio -9681(C)	55.5	57.3	35.2	34.3	77.1	1.5
		PMH 1 (C)	56.0	58.3	36.6	40.0	76.3	0.0
Mean of location			55.8	57.5	32.9	38.3	77.8	2.7
83,333			55.6	58.1	33.5	38.3	78.2	2.8
100,000			55.9	56.9	32.3	38.3	77.4	2.6
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			1.55	3.2	2.76	6.4	3.9	16.11
200:65:80			55.6	58.0	32.3	38.8	77.8	2.6
250:80:100			55.9	57.0	33.5	37.9	77.8	2.8
CD at 5%			NS	1.0	NS	NS	NS	NS
CV (%)			0.82	2.6	16.71	5.1	4.2	16.11
HT 51412616			55.5	58.7	30.2	38.3	78.7	1.9
DMH192			55.9	56.6	35.1	41.7	77.6	1.4
ADV 0990296			56.0	56.2	28.5	37.6	79.1	5.9
Seed tech 2324(C)			55.8	57.8	33.7	39.1	77.5	5.6
Bio -9681(C)			55.5	57.2	33.8	34.1	77.3	1.4
PMH 1 (C)			55.9	58.5	36.2	39.2	76.5	0.0
CD at 5%			NS	1.3	4.35	1.9	NS	0.73
CV (%)			1.6	2.7	12.7	6.1	3.9	26.0

Cont….

Density	$N:P_2O_5:K_2O$	Genotypes	Net returns (Rs./ha)		BC ratio		Cob length (cm)	Cob girth (cm)	Grain rows/ cob	Grains/ row
			Dharwad	Karimnagar	Dharwad	Karimnagar	Karimnagar			
83,333	200:65:80	HT 51412616	47198	27124	2.45	1.41	19.2	15.5	14.3	37.3
		DMH192	46801	46248	2.44	1.71	19.7	16.2	13.7	36.7
		ADV 0990296	42051	43987	2.30	1.67	19.2	16.2	14.5	40.9
		Seed tech 2324(C)	41022	36417	2.26	1.56	20.2	16.0	14.1	38.2
		Bio -9681(C)	47050	15205	2.45	1.23	17.8	16.3	14.3	34.7
		PMH 1 (C)	49531	37296	2.53	1.57	20.2	15.6	13.7	35.5
	250:80:100	HT 51412616	47368	39780	2.37	1.57	19.3	16.1	14.4	37.3
		DMH192	46257	63423	2.34	1.91	20.4	16.0	14.1	37.0
		ADV 0990296	42117	52536	2.22	1.75	18.5	16.1	14.2	40.7
		Seed tech 2324(C)	41059	44023	2.19	1.63	19.7	15.8	14.3	38.9
		Bio -9681(C)	46788	21305	2.36	1.31	17.9	16.1	14.3	34.3
		PMH 1 (C)	50046	32672	2.45	1.47	21.7	16.0	14.0	35.3
100,000	200:65:80	HT 51412616	45467	36511	2.40	1.53	19.2	16.1	13.7	37.5
		DMH192	45107	60037	2.39	1.87	20.0	16.3	13.7	36.7
		ADV 0990296	40406	47532	2.24	1.69	19.0	15.8	14.5	37.5
		Seed tech 2324(C)	39508	34076	2.22	1.49	20.2	16.4	14.2	38.6
		Bio -9681(C)	44637	18554	2.37	1.27	18.7	16.2	14.0	32.0
		PMH 1 (C)	46050	33313	2.42	1.48	20.9	15.9	14.0	35.8
	250:80:100	HT 51412616	44893	49042	2.30	1.69	19.0	15.8	13.6	37.5
		DMH192	44256	58023	2.28	1.82	19.6	16.0	13.5	37.9
		ADV 0990296	39138	57550	2.14	1.81	19.0	16.1	14.4	39.4
		Seed tech 2324(C)	38703	44249	2.12	1.63	20.0	15.5	13.3	36.9
		Bio -9681(C)	44009	18476	2.28	1.26	17.8	15.9	14.0	33.1
		PMH 1 (C)	46946	46459	2.36	1.66	21.2	15.8	13.6	37.8
Mean of location			44433.8	40159.9	2.33	1.58	19.5	16.0	14.0	37.0
83,333			45607	38335	2.36	1.57	19.5	16.0	14.2	37.2
100,000			43260	41985	2.29	1.60	19.5	16.0	13.9	36.7
CD at 5%			1308.74	NS	0.04	NS	NS	NS	NS	NS
CV (%)			0.80	28.6	0.45	10.0	3.6	1.2	9.1	2.6
200:65:80			44569	36358	2.37	1.54	19.5	16.1	14.1	36.8
250:80:100			44299	43962	2.29	1.63	19.5	15.9	14.0	37.2
CD at 5%			NS	NS	0.01	NS	NS	NS	NS	NS
CV (%)			0.82	46.6	0.43	17.3	1.7	4.4	3.9	4.3
HT 51412616			46232	38114	2.38	1.55	19.2	15.9	14.0	37.4
DMH192			45605	56933	2.36	1.83	19.9	16.1	13.8	37.1
ADV 0990296			40928	50401	2.22	1.73	18.9	16.1	14.4	39.6
Seed tech 2324(C)			40073	39692	2.20	1.58	20.0	15.9	14.0	38.2
Bio -9681(C)			45621	18385	2.36	1.27	18.1	16.1	14.1	33.5
PMH 1 (C)			48143	37435	2.44	1.54	21.0	15.8	13.8	36.1
CD at 5%			2417.11	8435.6	0.07	0.12	0.6	NS	NS	1.9
CV (%)			5.22	25.5	2.99	9.5	3.9	2.3	4.1	6.1

Table 4: Performance of pre release late maturity genotypes in *Kharif* under varying planting density and nutrients levels in Central West Zone (CWZ).

Density	N:P_2O_5:K_2O	Genotypes	Grain yield (kg/ha)		Mean (CWZ)	Stover yield (kg/ha)		Plants ('000/ha)	
			Banswara	Chhindwara		Banswara	Chhindwara	Banswara	Chhindwara
66,000	200:65:80	DKC9151(IN8902)	5799	9392	7596	8212	19247	58.9	61.0
		ADV 0990296	4965	6900	5933	7372	14010	57.5	59.0
		KH-2192	6076	8234	7155	8470	16837	59.6	60.3
		PMH 1 (C)	5278	8071	6674	7601	16481	58.9	60.3
		Seed tech 2324(C)	5972	5143	5558	8784	10340	60.9	60.3
		Bio -9681(C)	5486	5570	5528	8353	11243	60.7	59.0
	250:80:100	DKC9151(IN8902)	6042	9667	7854	9348	20292	61.6	61.7
		ADV 0990296	5313	7136	6224	8301	14496	60.7	61.0
		KH-2192	6146	7929	7037	9888	16184	61.4	61.7
		PMH 1 (C)	5486	8132	6809	8841	16608	59.4	60.3
		Seed tech 2324(C)	6007	7095	6551	9502	14439	57.1	59.0
		Bio -9681(C)	5764	7359	6562	9322	14954	59.3	61.0
83,000	200:65:80	DKC9151(IN8902)	6250	9799	8025	9952	20110	76.0	77.3
		ADV 0990296	5625	7522	6574	9084	15330	72.6	78.6
		KH-2192	6528	8610	7569	10492	17604	60.3	77.9
		PMH 1 (C)	5868	8221	7045	9339	16791	65.5	74.5
		Seed tech 2324(C)	6319	5652	5986	10032	11411	57.1	79.3
		Bio -9681(C)	6042	5916	5979	9814	11974	60.9	80.6
	250:80:100	DKC9151(IN8902)	6285	9318	7801	9541	20688	73.2	78.6
		ADV 0990296	5833	7786	6810	9318	15869	71.7	81.3
		KH-2192	6701	8691	7696	10665	17803	72.8	78.6
		PMH 1 (C)	6076	8457	7267	9419	17293	65.6	78.6
		Seed tech 2324(C)	6493	7237	6865	10232	14730	60.9	80.6
		Bio -9681(C)	6181	7400	6790	9646	15021	78.5	80.0
Mean of location			5938.9	7718.3	6828.6	9230.4	15823.1	63.8	69.6
66,000			5694	7552.4	6623.4	8666	15428	59.7	60.4
83,000			6183	7884.2	7033.8	9795	16219	67.9	78.8
CD at 5%			183.4	308.5	246.0	716.4	550.9	3.1	3.0
CV (%)			3.0	3.9	3.5	7.7	3.4	4.7	4.3
200:65:80			5851	7419	6635	8959	15115	62.4	69.0
250:80:100			6027	8017	7022	9502	16531	65.2	70.2
CD at 5%			NS	348.0	348.0	445.5	879.7	1.3	0.9
CV (%)			5.9	6.9	6.4	7.4	8.5	3.1	1.9
DKC9151(IN8902)			6094	9544	7819	9263	20084	67.4	69.6
ADV 0990296			5434	7336	6385	8519	14926	65.6	70.0
KH-2192			6363	8366	7364	9878	17107	63.5	69.6
PMH 1 (C)			5677	8220	6949	8800	16793	62.4	68.4
Seed tech 2324(C)			6198	6282	6240	9638	12730	59.0	69.8
Bio -9681(C)			5868	6562	6215	9284	13298	64.9	70.1
CD at 5%			431.7	511.0	471.4	776.6	1133.5	2.0	NS
CV (%)			8.8	8.0	8.4	10.2	8.7	3.8	4.6

Cont….

Density	N:P_2O_5:K_2O	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling	
			Banswara	Chhindwara	Banswara	Chhindwara	Banswara	Chhindwara
66,000	200:65:80	DKC9151(IN8902)	55.6	57.6	216.5	236.3	48.3	55.0
		ADV 0990296	54.2	55.6	210.4	191.7	45.9	58.0
		KH-2192	56.3	56.9	219.5	200.3	48.0	53.7
		PMH 1 (C)	55.6	58.3	216.8	185.0	47.9	54.3
		Seed tech 2324(C)	57.6	56.9	225.3	189.0	49.2	56.0
		Bio -9681(C)	57.4	57.6	224.2	200.0	48.2	54.3
	250:80:100	DKC9151(IN8902)	58.3	58.3	230.9	224.3	49.0	53.3
		ADV 0990296	57.4	58.3	227.4	184.0	48.9	58.0
		KH-2192	58.1	59.6	226.6	212.3	48.9	53.7
		PMH 1 (C)	56.1	57.6	221.7	213.3	48.0	53.0
		Seed tech 2324(C)	53.8	56.9	212.1	184.3	47.0	55.7
		Bio -9681(C)	56.0	59.0	227.6	190.7	48.1	53.0
83,000	200:65:80	DKC9151(IN8902)	67.7	75.9	253.7	230.3	48.7	55.7
		ADV 0990296	64.3	75.2	252.7	189.3	49.0	59.7
		KH-2192	52.0	77.3	258.3	199.7	48.0	53.7
		PMH 1 (C)	57.2	70.5	243.5	179.0	47.0	57.0
		Seed tech 2324(C)	48.8	75.2	223.3	181.3	50.3	57.3
		Bio -9681(C)	52.6	72.5	223.9	185.7	48.7	53.7
	250:80:100	DKC9151(IN8902)	64.9	74.5	252.0	219.7	49.7	54.7
		ADV 0990296	63.4	78.6	259.6	175.3	49.7	59.0
		KH-2192	58.1	77.3	247.2	209.3	50.1	54.3
		PMH 1 (C)	48.9	74.5	250.3	209.7	51.0	53.3
		Seed tech 2324(C)	52.6	78.6	249.0	177.7	50.3	56.7
		Bio -9681(C)	70.2	77.9	241.3	186.7	49.3	53.3
Mean of location			57.4	66.7	233.9	198.1	48.7	55.3
66,000			56.4	57.7	221.6	200.9	48.1	54.8
83,000			58.4	75.7	246.2	195.3	49.3	55.7
CD at 5%			0.6	2.5	10.5	3.6	1.0	0.4
CV (%)			1.1	3.7	4.4	1.8	2.0	0.8
200:65:80			56.6	65.8	230.7	197.3	48.3	55.7
250:80:100			58.1	67.6	237.2	198.9	49.2	54.8
CD at 5%			0.5	1.7	2.0	NS	0.8	0.8
CV (%)			1.3	3.9	1.3	8.5	2.6	2.1
DKC9151(IN8902)			61.6	66.6	238.3	227.7	48.9	54.7
ADV 0990296			59.8	66.9	237.5	185.1	48.4	58.7
KH-2192			56.1	67.8	237.9	205.4	48.7	53.8
PMH 1 (C)			54.5	65.2	233.1	196.8	48.5	54.4
Seed tech 2324(C)			53.2	66.9	227.4	183.1	49.2	56.4
Bio -9681(C)			59.1	66.8	229.3	190.8	48.6	53.6
CD at 5%			0.8	NS	4.0	14.5	NS	0.7
CV (%)			1.7	5.9	2.1	8.9	1.4	1.5

Cont….

Density	N:P_2O_5:K_2O	Genotypes	Days to 50% silking		Net returns (Rs./ha)		BC ratio	
			Banswara	Chhindwara	Banswara	Chhindwara	Banswara	Chhindwara
66,000	200:65:80	DKC9151(IN8902)	50.0	58.0	49009	97462	1.52	4.16
		ADV 0990296	48.3	60.3	37342	80909	1.16	3.08
		KH-2192	50.3	56.3	52897	94993	1.64	3.88
		PMH 1 (C)	50.3	57.3	41717	91136	1.30	3.78
		Seed tech 2324(C)	51.5	59.0	51439	53526	1.60	2.04
		Bio -9681(C)	50.6	56.0	44634	60193	1.39	2.29
	250:80:100	DKC9151(IN8902)	51.3	56.3	50612	11165	1.49	4.38
		ADV 0990296	51.2	60.7	40404	82240	1.19	2.88
		KH-2192	51.2	56.0	52071	94631	1.53	3.31
		PMH 1 (C)	50.3	55.3	42835	97800	1.26	3.42
		Seed tech 2324(C)	49.3	58.7	50126	81634	1.48	2.86
		Bio -9681(C)	50.4	55.3	46723	85717	1.38	3.00
83,000	200:65:80	DKC9151(IN8902)	51.0	58.7	54578	44676	1.66	4.56
		ADV 0990296	51.3	62.3	45828	90628	1.39	3.45
		KH-2192	50.3	57.0	58467	107584	1.78	4.10
		PMH 1 (C)	49.3	58.7	49231	101529	1.50	3.87
		Seed tech 2324(C)	52.7	59.7	55550	61458	1.69	2.34
		Bio -9681(C)	51.0	56.3	51661	65589	1.57	2.50
	250:80:100	DKC9151(IN8902)	52.0	57.3	53265	43859	1.53	4.24
		ADV 0990296	52.0	61.7	46946	92395	1.35	3.23
		KH-2192	52.4	56.7	59098	106542	1.70	3.73
		PMH 1 (C)	53.3	56.0	50348	102877	1.45	3.60
		Seed tech 2324(C)	52.7	59.3	56182	83846	1.62	2.93
		Bio -9681(C)	51.7	56.3	51807	86332	1.49	3.02
Mean of location			51.0	57.9	49698.8	79946.8	1.49	3.36
66,000			50.4	57.4	46651	77617	1.41	3.26
83,000			51.6	58.3	52747	82276	1.56	3.46
CD at 5%			1.1	0.5	2567.6	NS	0.1	NS
CV (%)			2.1	0.8	5.1	17.2	5.1	8.2
200:65:80			50.6	58.3	49363	79140	1.52	3.34
250:80:100			51.5	57.5	50035	80753	1.46	3.38
CD at 5%			0.8	0.6	NS	NS	NS	NS
CV (%)			2.5	1.7	9.9	22.1	9.9	7.5
DKC9151(IN8902)			51.1	57.6	51866	49291	1.55	4.34
ADV 0990296			50.7	61.3	42630	86543	1.27	3.16
KH-2192			51.1	56.5	55633	100938	1.66	3.75
PMH 1 (C)			50.8	56.8	46033	98335	1.38	3.67
Seed tech 2324(C)			51.5	59.2	53324	70116	1.59	2.54
Bio -9681(C)			50.9	56.0	48706	74458	1.46	2.70
CD at 5%			NS	0.5	6044.0	15053.8	0.2	0.3
CV (%)			1.3	1.0	14.7	22.8	14.7	10.3

Cont….

Density	$N:P_2O_5:K_2O$	Genotypes	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
			Chhindwara			
66,000	200:65:80	DKC9151(IN8902)	17.1	16.4	14.7	38.3
		ADV 0990296	13.0	14.5	13.3	31.3
		KH-2192	13.7	15.6	13.3	32.7
		PMH 1 (C)	17.3	14.5	12.7	35.0
		Seed tech 2324(C)	15.7	13.7	12.7	34.0
		Bio -9681(C)	14.5	14.9	14.0	34.7
	250:80:100	DKC9151(IN8902)	19.4	16.7	14.7	39.7
		ADV 0990296	14.0	15.0	15.3	32.7
		KH-2192	15.4	16.2	15.3	39.7
		PMH 1 (C)	18.4	15.5	14.0	38.7
		Seed tech 2324(C)	16.4	14.8	14.0	38.0
		Bio -9681(C)	15.9	15.5	15.3	35.3
83,000	200:65:80	DKC9151(IN8902)	16.2	15.2	12.7	36.3
		ADV 0990296	13.5	13.7	14.0	31.7
		KH-2192	13.4	15.0	12.7	32.7
		PMH 1 (C)	17.7	14.7	12.0	34.3
		Seed tech 2324(C)	14.9	14.4	12.0	35.3
		Bio -9681(C)	14.2	14.3	13.3	33.0
	250:80:100	DKC9151(IN8902)	18.6	15.6	14.0	37.3
		ADV 0990296	14.2	14.4	13.3	31.0
		KH-2192	14.5	14.2	14.7	35.3
		PMH 1 (C)	17.7	14.7	13.3	35.7
		Seed tech 2324(C)	15.0	14.8	14.0	34.3
		Bio -9681(C)	14.0	14.6	14.0	34.3
Mean of location			15.6	15.0	13.7	35.1
66,000			15.9	15.3	14.1	35.8
83,000			15.3	14.6	13.3	34.3
CD at 5%			NS	NS	NS	1.6
CV (%)			6.5	4.3	6.9	4.4
200:65:80			15.1	14.7	13.1	34.1
250:80:100			16.1	15.2	14.3	36.0
CD at 5%			0.9	NS	0.3	NS
CV (%)			9.2	5.3	3.4	14.8
DKC9151(IN8902)			17.8	16.0	14.0	37.9
ADV 0990296			13.7	14.4	14.0	31.7
KH-2192			14.3	15.3	14.0	35.1
PMH 1 (C)			17.8	14.9	13.0	35.9
Seed tech 2324(C)			15.5	14.4	13.2	35.4
Bio -9681(C)			14.7	14.8	14.2	34.3
CD at 5%			1.3	0.9	0.8	3.5
CV (%)			10.2	6.9	6.7	12.2

Table 5: Performance of pre release popcorn genotypes under varying planting density and nutrients levels in Northern Hill Zone (NHZ).

Density	N:P_2O_5:K_2O	Genotypes	Grain yield (kg/ha)		Mean (NHZ)	Stover yield (kg/ha)		Plants ('000/ha)	
			Almora	Bajaura		Almora	Bajaura	Almora	Bajaura
83,000	150:50:60	DMRHP-1402	8147	5133	6640	11312	6854	83.3	78.7
		VL Amber Popcorn (C)	7568	4967	6268	10903	6541	83.3	80.0
	200:60:80	DMRHP-1402	10252	5595	7924	12299	7623	83.3	78.7
		VL Amber Popcorn (C)	7809	4934	6371	11414	6912	83.3	77.3
100,000	150:50:60	DMRHP-1402	8281	5269	6775	12172	6806	100.0	94.3
		VL Amber Popcorn (C)	7432	4974	6203	11499	6503	100.0	89.0
	200:60:80	DMRHP-1402	10321	5370	7845	13790	7671	100.0	95.0
		VL Amber Popcorn (C)	7898	4960	6429	12177	7072	100.0	87.3
Mean of location			8463.5	5150.4	6807.0	11945.7	6997.7	91.7	85.0
83,000			8444	5157	6801	11482	6982	83.3	78.7
100,000			8483	5144	6813	12409	7013	100.0	91.4
CD at 5%			NS	NS	NS	NS	NS	0.0	6.5
CV (%)			1.6	16.95	9.3	10.7	14.2	0.0	4.4
150:50:60			7857	5086	6471	11471	6676	91.7	85.5
200:60:80			9070	5215	7142	12420	7320	91.7	84.6
CD at 5%			378.6	NS	378.6	779.7	NS	0.0	NS
CV (%)			3.9	13.19	8.6	5.8	11.0	0.0	2.7
DMRHP-1402			9250	5342	7296	12393	7238	91.7	86.7
VL Amber Popcorn (C)			7677	4959	6318	11498	6757	91.7	83.4
CD at 5%			598.3	NS	598.3	NS	NS	0.0	2.3
CV (%)			7.5	9.01	8.3	9.6	8.0	0.0	2.8

Cont….

Density	$N:P_2O_5:K_2O$	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling	
			Almora	Bajaura	Almora	Bajaura	Almora	Bajaura
83,000	150:50:60	DMRHP-1402	134.0	112.0	193.6	183.0	55.7	49.3
		VL Amber Popcorn (C)	114.6	92.3	189.4	186.3	56.7	51.3
	200:60:80	DMRHP-1402	149.3	100.7	198.7	190.0	56.7	50.0
		VL Amber Popcorn (C)	117.4	94.3	192.3	183.0	57.0	51.0
100,000	150:50:60	DMRHP-1402	136.7	108.0	195.3	181.3	56.3	49.0
		VL Amber Popcorn (C)	116.0	100.0	191.3	176.0	56.7	51.3
	200:60:80	DMRHP-1402	150.7	111.3	200.5	180.3	55.7	50.7
		VL Amber Popcorn (C)	120.0	102.7	193.2	179.7	56.7	52.0
Mean of location			129.8	102.7	194.3	182.5	56.4	50.6
83,000			128.8	99.8	193.5	185.6	56.5	50.4
100,000			130.8	105.5	195.1	179.3	56.3	50.8
CD at 5%			NS	NS	NS	6.12	NS	NS
CV (%)			8.5	7.56	3.5	1.91	1.0	1.76
150:50:60			125.3	103.1	192.4	181.7	56.3	50.3
200:60:80			134.3	102.3	196.2	183.3	56.5	50.9
CD at 5%			4.5	NS	NS	NS	NS	0.52
CV (%)			3.1	8.32	5.3	1.65	1.2	0.90
DMRHP-1402			142.7	108.0	197.0	183.7	56.1	49.8
VL Amber Popcorn (C)			117.0	97.3	191.6	181.3	56.8	51.4
CD at 5%			4.4	5.46	NS	NS	NS	0.64
CV (%)			3.6	5.65	3.7	2.62	1.6	1.34

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Density	N:P_2O_5:K_2O	Genotypes	Days to 50% Silking		100-seed weight (g)		Popping (%)	
			Almora	Bajaura	Almora	Bajaura	Almora	Bajaura
83,000	150:50:60	DMRHP-1402	58.0	52.3	18.2	12.7	61.7	93.7
		VL Amber Popcorn (C)	59.7	54.0	16.6	19.3	61.7	95.3
	200:60:80	DMRHP-1402	59.7	52.3	18.3	15.0	63.2	87.3
		VL Amber Popcorn (C)	60.0	53.7	16.7	20.7	64.3	91.7
100,000	150:50:60	DMRHP-1402	59.3	51.7	17.2	18.0	64.0	92.7
		VL Amber Popcorn (C)	59.7	53.7	16.2	18.7	56.3	94.0
	200:60:80	DMRHP-1402	58.7	53.0	18.0	18.7	64.5	90.3
		VL Amber Popcorn (C)	59.7	54.3	16.7	15.3	61.2	88.7
Mean of location			59.3	53.1	17.2	17.3	62.1	91.7
83,000			59.3	53.1	17.4	16.9	62.7	92.0
100,000			59.3	53.2	17.0	17.7	61.5	91.4
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			0.6	1.39	2.4	10.62	11.0	2.99
150:50:60			59.2	52.9	17.0	17.2	60.9	93.9
200:60:80			59.5	53.3	17.4	17.4	63.3	89.5
CD at 5%			NS	NS	NS	NS	NS	3.93
CV (%)			1.2	0.77	3.0	13.20	6.2	3.78
DMRHP-1402			58.9	52.3	17.9	16.1	63.3	91.0
VL Amber Popcorn (C)			59.8	53.9	16.5	18.5	60.9	92.4
CD at 5%			NS	0.67	0.4	1.71	NS	NS
CV (%)			1.7	1.33	2.4	10.49	9.4	3.37

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Density	N:P_2O_5:K_2O	Genotypes	Net returns (Rs. /ha)		BC ratio		Turcicum Leaf Blight (1-5 scale score)
			Almora	Bajaura	Almora	Bajaura	Almora
83,000	150:50:60	DMRHP-1402	343968	94879	5.4	3.4	3.0
		VL Amber Popcorn (C)	317091	90486	5.2	3.3	3.7
	200:60:80	DMRHP-1402	446064	105213	6.7	3.6	3.3
		VL Amber Popcorn (C)	327294	88127	5.2	3.2	3.7
100,000	150:50:60	DMRHP-1402	348375	97757	5.3	3.5	3.0
		VL Amber Popcorn (C)	308157	90139	4.9	3.3	3.7
	200:60:80	DMRHP-1402	447331	99134	6.5	3.4	3.3
		VL Amber Popcorn (C)	329488	88405	5.0	3.1	3.7
Mean of location			358471.0	94267.6	5.5	3.4	3.4
83,000			358604	94676	5.6	3.4	3.4
100,000			358338	93859	5.4	3.3	3.4
CD at 5%			NS	NS	0.0	NS	NS
CV (%)			1.6	24.0	0.2	17.08	31.0
150:50:60			329398	93315	5.2	3.4	3.3
200:60:80			387544	95220	5.9	3.3	3.5
CD at 5%			18927.0	NS	0.3	NS	NS
CV (%)			4.7	18.7	4.4	13.24	8.4
DMRHP-1402			396434	99246	6.0	3.5	3.2
VL Amber Popcorn (C)			320508	89290	5.1	3.2	3.7
CD at 5%			29673.2	NS	0.4	NS	0.4
CV (%)			8.8	12.8	8.3	8.85	11.9

Table 6: Performance of pre release popcorn genotypes under varying planting density and nutrients levels in North West Plain Zone (NWPZ).

Density	N:P_2O_5:K_2O	Genotypes	Grain yield (kg/ha)		Mean (NWPZ)	Stover yield (kg/ha)		Plants ('000/ha)	
			Ludhiana	Pantnagar		Ludhiana	Pantnagar	Ludhiana	Pantnagar
66,000	150:50:60	DMRHP-1402	3089	3345	3217	4385	8689	63.7	57.8
		VL Amber Popcorn (C)	3041	2804	2923	4348	6356	61.9	58.9
	200:60:80	DMRHP-1402	3363	3352	3358	4774	9644	63.7	58.9
		VL Amber Popcorn (C)	3207	3031	3119	4552	7111	65.2	57.8
83,000	150:50:60	DMRHP-1402	4122	4028	4075	5856	9701	82.2	83.3
		VL Amber Popcorn (C)	3844	3363	3604	5459	7361	82.6	72.6
	200:60:80	DMRHP-1402	4611	4133	4372	6544	9797	81.5	74.8
		VL Amber Popcorn (C)	3900	3458	3679	5567	8558	80.4	71.6
Mean of location			3647.2	3439	3543	5185.6	3543	72.6	67.0
66,000			3175	3133	3152	4515	3154	63.6	58.3
83,000			4119	3745	3938	5856	3932	81.7	75.6
CD at 5%			432.3	NS	432.3	645.2	432	3.01	10.1
CV (%)			6.7	10.2	8.5	7.1	8.5	2.4	8.6
150:50:60			3524	3133	3454	5012	3329	72.6	68.2
200:60:80			3770	3745	3635	5359	3758	72.7	65.8
CD at 5%			NS	NS	378.6	NS	NS	NS	NS
CV (%)			14.2	5.5	9.9	14.2	9.9	1.6	4.6
DMRHP-1402			3796	3714	3755	5390	3755	72.8	68.7
VL Amber Popcorn (C)			3498	3164	3334	4981	3331	72.5	65.2
CD at 5%			NS	218.2	208.2	NS	218	NS	NS
CV (%)			13.8	6.7	10.3	13.9	10.3	2.0	5.8

Cont….

Density	N:P_2O_5:K_2O	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling		100-seed weight (g)
			Ludhiana	Pantnagar	Ludhiana	Pantnagar	Ludhiana	Pantnagar	Pantnagar
66,000	150:50:60	DMRHP-1402	65.6	57.8	155.0	144.0	48.7	47.0	16.6
		VL Amber Popcorn (C)	62.2	58.9	153.3	130.6	50.0	46.7	13.4
	200:60:80	DMRHP-1402	64.8	61.1	167.0	146.9	48.3	47.7	16.8
		VL Amber Popcorn (C)	64.8	60.0	167.0	133.2	49.7	47.7	14.1
83,000	150:50:60	DMRHP-1402	82.2	84.4	156.3	147.7	48.7	47.7	16.5
		VL Amber Popcorn (C)	81.9	74.8	159.3	139.0	50.3	46.0	13.2
	200:60:80	DMRHP-1402	79.3	75.9	172.7	149.9	48.7	45.0	16.5
		VL Amber Popcorn (C)	80.0	73.7	171.3	134.6	50.0	47.0	13.9
Mean of location			72.6	68.3	162.8	140.8	49.3	46.8	15.1
66,000			64.4	59.4	160.6	138.7	49.2	47.3	15.2
83,000			80.8	77.2	164.9	142.8	49.4	46.4	15.0
CD at 5%			6.9	7.4	NS	NS	NS	0.4	NS
CV (%)			5.4	6.1	5.8	4.4	4.3	0.4	4.6
150:50:60			73.0	69.0	156.0	140.3	49.4	46.8	14.9
200:60:80			72.2	67.7	169.5	141.2	49.2	46.8	15.3
CD at 5%			NS	NS	13.5	NS	NS	NS	NS
CV (%)			2.6	7.8	7.3	2.4	1.2	1.2	8.5
DMRHP-1402			73.0	69.8	162.8	147.2	48.6	46.8	16.6
VL Amber Popcorn (C)			72.2	66.8	162.8	134.4	50.0	46.8	13.6
CD at 5%			NS	NS	NS	6.5	0.6	NS	2.6
CV (%)			3.5	6.6	5.1	4.9	1.3	1.2	18.3

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Density	N:P_2O_5:K_2O	Genotypes	Days to 50% silking		Net returns (Rs./ha)		BC ratio		Popping (%)	Barren plants ('000/ha)
			Ludhiana	Pantnagar	Ludhiana	Pantnagar	Ludhiana	Pantnagar	Pantnagar	Ludhiana
66,000	150:50:60	DMRHP-1402	51.0	50.0	46824	137797	1.06	4.85	77.3	3333
		VL Amber Popcorn (C)	52.3	49.3	45439	112533	1.03	3.96	90.3	3333
	200:60:80	DMRHP-1402	50.3	50.3	50744	136966	1.05	4.59	76.7	2222
		VL Amber Popcorn (C)	51.7	50.3	46166	121851	0.96	4.08	93.0	2593
83,000	150:50:60	DMRHP-1402	51.0	50.0	76338	172750	1.70	5.98	76.7	3704
		VL Amber Popcorn (C)	52.7	49.0	68164	139291	1.52	4.82	90.0	2963
	200:60:80	DMRHP-1402	50.7	48.3	86572	177832	1.76	5.86	87.0	3704
		VL Amber Popcorn (C)	52.0	50.3	65684	142721	1.34	4.70	88.0	2963
Mean of location			51.5	49.7	60741.3	142717.6	1.30	4.85	84.9	3101.9
66,000			51.3	50.0	47293	127287	1.03	4.37	84.3	2870
83,000			51.6	49.4	74189	158148	1.58	5.34	85.4	3333
CD at 5%			NS	0.4	12747.9	NS	0.3	NS	NS	NS
CV (%)			2.7	0.4	11.9	12.6	10.9	12.4	4.2	19.3
150:50:60			51.8	49.6	59191	140593	1.33	4.90	83.6	3333
200:60:80			51.2	49.8	62292	144842	1.28	4.81	86.2	2870
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			1.9	1.4	25.2	16.9	25.1	17.3	3.6	19.3
DMRHP-1402			50.8	49.7	65119	156336	1.39	5.32	79.4	3241
VL Amber Popcorn (C)			52.2	49.8	56363	129099	1.21	4.39	90.3	2963
CD at 5%			0.6	NS	NS	NS	NS	NS	4.0	NS
CV (%)			1.3	0.4	24.4	31.1	24.8	30.7	5.0	17.9

Table 7: Performance of pre release popcorn genotypes under varying planting density and nutrients levels in North East Plain Zone (NEPZ).

Density	N:P_2O_5:K_2O	Genotypes	Grain yield (kg/ha)		Mean (NEPZ)	Stover yield (kg/ha)		Plants ('000/ha)	
			Bahraich	Bhubnes*		Bahraich	Bhubnes*	Bahraich	Bhubnes*
66,000	150:50:60	DMRHP-1402	3113	2017	2565	4007	4000	65.8	58.7
		VL Amber Popcorn (C)	3186	1824	2505	4156	2800	65.8	53.3
	200:60:80	DMRHP-1402	3359	2600	2980	4198	5333	65.7	56.0
		VL Amber Popcorn (C)	3482	2195	2839	5280	4000	65.8	56.0
83,000	150:50:60	DMRHP-1402	3046	2617	2832	3877	5733	82.7	76.0
		VL Amber Popcorn (C)	3180	2517	2849	4045	4800	82.8	80.0
	200:60:80	DMRHP-1402	3248	3448	3348	4100	6167	82.7	72.0
		VL Amber Popcorn (C)	3272	2924	3098	4212	5833	82.8	72.0
Mean of location			3235.7	2517.8	2876.8	4234.3	4833.3	74.3	65.5
66,000			3285	2159	2722	4410	4033	65.8	56.0
83,000			3186	2877	3031	4058	5633	82.7	75.0
CD at 5%			43.4	137.1	90.3	NS	1321.8	0.1	7.5
CV (%)			0.8	3.1	1.9	14.2	15.6	0.1	6.5
150:50:60			3131	2244	2688	4021	4333	74.2	67.0
200:60:80			3340	2792	3066	4448	5333	74.3	64.0
CD at 5%			47.3	377.8	212.5	NS	971.5	NS	2.8
CV (%)			1.3	13.2	7.3	14.1	17.7	0.1	3.7
DMRHP-1402			3191	2671	2931	4045	5308	74.2	65.7
VL Amber Popcorn (C)			3280	2365	2823	4423	4358	74.3	65.3
CD at 5%			38.8	221.6	102.0	NS	620.0	0.0	NS
CV (%)			1.3	9.3	5.3	14.7	13.6	0.1	6.6

***Bhubnes = Bhubaneswar**

Cont….

Density	N:P_2O_5:K_2O	Genotypes	Cobs ('000/ha)	Plant height (cm)		Days to 50% tasseling	Days to 50% Silking	
			Bahraich	Bahraich	Bhubnes	Bahraich	Bahraich	Bhubnes
66,000	150:50:60	DMRHP-1402	65.8	176.3	126.9	46.0	48.7	49.7
		VL Amber Popcorn (C)	65.9	175.0	128.5	47.3	49.3	48.7
	200:60:80	DMRHP-1402	65.8	180.3	131.4	44.7	47.7	49.3
		VL Amber Popcorn (C)	65.9	177.0	133.0	45.3	47.7	48.7
83,000	150:50:60	DMRHP-1402	82.8	175.7	131.2	46.3	48.0	50.3
		VL Amber Popcorn (C)	82.8	175.0	132.8	47.3	49.7	49.3
	200:60:80	DMRHP-1402	82.8	177.7	131.7	45.0	47.0	48.0
		VL Amber Popcorn (C)	82.8	177.3	133.1	45.7	47.7	49.0
Mean of location			74.3	176.8	131.1	46.0	48.2	49.1
66,000			65.8	177.2	130.0	45.8	48.3	49.1
83,000			82.8	176.4	132.2	46.1	48.1	49.2
CD at 5%			0.0	0.6	NS	NS	NS	NS
CV (%)			0.0	0.2	1.9	0.8	1.5	1.8
150:50:60			74.3	175.5	129.8	46.8	48.9	49.5
200:60:80			74.3	178.1	132.3	45.2	47.5	48.8
CD at 5%			NS	0.6	1.1	0.8	0.7	NS
CV (%)			0.1	0.3	0.7	1.6	1.3	2.9
DMRHP-1402			74.3	177.5	130.3	45.5	47.8	49.3
VL Amber Popcorn (C)			74.3	176.1	131.8	46.4	48.6	48.9
CD at 5%			0.0	0.7	NS	0.6	0.7	NS
CV (%)			0.0	0.4	2.6	1.3	1.5	1.9

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Density	$N:P_2O_5:K_2O$	Genotypes	100-seed weight (g)	Net returns (Rs./ha)		BC ratio		Popping (%)
			Bahraich	Bahraich	Bhubnes	Bahraich	Bhubnes	Bahraich
66,000	150:50:60	DMRHP-1402	18.0	42273	8600	2.7	0.21	98.5
		VL Amber Popcorn (C)	18.2	43876	12233	2.8	0.30	97.6
	200:60:80	DMRHP-1402	18.4	45378	19200	2.7	0.47	99.0
		VL Amber Popcorn (C)	18.5	47927	28000	2.8	0.68	98.5
83,000	150:50:60	DMRHP-1402	18.0	40790	30167	2.7	0.74	97.9
		VL Amber Popcorn (C)	18.1	43645	26733	2.8	0.65	97.0
	200:60:80	DMRHP-1402	18.3	45053	38267	2.7	0.93	98.2
		VL Amber Popcorn (C)	18.3	43642	51033	2.7	1.24	97.8
Mean of location			18.2	44073.0	26779.2	2.8	0.65	98.1
66,000			18.3	44864	17008	2.8	0.41	98.4
83,000			18.2	43283	36550	2.7	0.89	97.7
CD at 5%			0.1	948.9	2394.3	0.0	0.1	0.4
CV (%)			0.3	1.2	5.1	0.8	5.1	0.3
150:50:60			18.1	42646	19433	2.8	0.47	97.8
200:60:80			18.4	45500	34125	2.7	0.83	98.4
CD at 5%			0.1	957.5	9487.9	NS	0.2	0.5
CV (%)			0.3	1.9	31.3	1.1	31.3	0.5
DMRHP-1402			18.2	43374	24058	2.7	0.59	98.4
VL Amber Popcorn (C)			18.3	44772	29500	2.8	0.72	97.7
CD at 5%			0.1	783.4	NS	0.0	NS	0.4
CV (%)			0.4	1.9	21.8	1.2	21.8	0.5

Table 8: Performance of pre release popcorn genotypes under varying planting density and nutrients levels in Peninsular Zone (PZ).

Density	N:P_2O_5:K_2O	Genotypes	Grain yield (kg/ha)		Mean (PZ)	Cob yield (kg/ha)	Stover yield (kg/ha)		Plants ('000/ha)
			Dharwad	Karimnagar		Karimnagar	Dharwad	Karimnagar	Dharwad
83,000	150:50:60	DMRHP-1402	2328	4514	3421	5497	4378	6883	76.0
		VL Amber Popcorn (C)	1641	3007	2324	3440	3698	4740	75.6
	200:60:80	DMRHP-1402	2332	5476	3904	6467	4372	6879	76.0
		VL Amber Popcorn (C)	1552	2903	2228	3363	3650	4468	75.2
100,000	150:50:60	DMRHP-1402	2258	4841	3550	5561	4356	6850	92.4
		VL Amber Popcorn (C)	1681	2936	2308	3397	3700	4857	91.6
	200:60:80	DMRHP-1402	2246	4954	3600	6214	4114	6884	91.6
		VL Amber Popcorn (C)	1522	3208	2365	3588	3366	4787	90.4
Mean of location			1944.9	3980.0	2962.5	4690.8	3954.1	5793.5	83.6
83,000			1963	3975	2969	4692	4024	5742	75.7
100,000			1927	3985	2956	4690	3884	5845	91.5
CD at 5%			NS	NS	NS	NS	NS	NS	7.6
CV (%)			12.0	20.0	16.0	18.0	2.7	8.2	1.4
150:50:60			1977	3825	2901	4473	4033	5832	83.9
200:60:80			1913	4135	3024	4908	3875	5755	83.3
CD at 5%			NS	NS	NS	388.7	NS	NS	NS
CV (%)			8.8	13.3	11.1	7.3	5.3	6.2	1.4
DMRHP-1402			2291	4946	3619	5935	4305	6874	84.0
VL Amber Popcorn (C)			1599	3014	2306	3447	3603	4713	83.2
CD at 5%			106.4	412.2	259.3	483.1	162.4	229.6	NS
CV (%)			3.9	11.0	7.5	10.9	3.0	4.2	1.6

Cont….

Density	N:P_2O_5:K_2O	Genotypes	Cobs ('000/ha)	Plant height (cm)		Days to 50% tasseling		Days to 50% Silking	
			Dharwad	Dharwad	Karimnagar	Dharwad	Karimnagar	Dharwad	Karimnagar
83,000	150:50:60	DMRHP-1402	74.0	196.7	144.0	44.5	51.0	48.5	53.3
		VL Amber Popcorn (C)	74.0	193.9	155.7	44.5	49.0	48.5	52.0
	200:60:80	DMRHP-1402	74.0	199.9	144.3	44.5	46.0	49.0	48.7
		VL Amber Popcorn (C)	73.2	196.4	144.3	44.0	48.3	49.0	50.3
100,000	150:50:60	DMRHP-1402	90.0	194.2	143.0	44.5	46.7	48.5	49.7
		VL Amber Popcorn (C)	88.8	191.4	132.3	44.5	49.0	48.5	50.7
	200:60:80	DMRHP-1402	88.8	197.0	150.7	44.0	46.3	48.0	49.0
		VL Amber Popcorn (C)	86.8	193.7	137.3	45.0	49.7	49.0	51.7
Mean of location			81.2	195.4	144.0	44.4	48.3	48.6	50.7
83,000			73.8	196.7	147.1	44.4	48.6	48.8	51.1
100,000			88.6	194.0	140.8	44.5	47.9	48.5	50.3
CD at 5%			10.2	NS	NS	NS	NS	0.0	NS
CV (%)			2.0	1.1	8.0	0.6	6.2	0.0	4.5
150:50:60			81.7	194.0	143.8	44.5	48.9	48.5	51.4
200:60:80			80.7	196.7	144.2	44.4	47.6	48.8	49.9
CD at 5%			NS	NS	NS	NS	NS	0.0	1.3
CV (%)			1.1	1.0	4.9	0.6	2.5	0.0	2.3
DMRHP-1402			81.7	196.9	145.5	44.4	47.5	48.5	50.2
VL Amber Popcorn (C)			80.7	193.8	142.4	44.5	49.0	48.8	51.2
CD at 5%			NS	2.8	NS	NS	1.5	NS	NS
CV (%)			1.7	1.0	7.2	1.7	3.3	1.5	2.8

Cont….

Density	N:P_2O_5:K_2O	Genotypes	100-seed weight (g)		Net returns (Rs./ha)		BC ratio	
			Dharwad	Karimnagar	Dharwad	Karimnagar	Dharwad	Karimnagar
83,000	150:50:60	DMRHP-1402	19.9	278.0	-1009	95253	1.0	1.7
		VL Amber Popcorn (C)	18.3	173.3	-9087	44397	0.7	2.5
	200:60:80	DMRHP-1402	21.5	292.7	-2676	126401	0.9	1.5
		VL Amber Popcorn (C)	17.1	180.7	-11820	36634	0.6	2.7
100,000	150:50:60	DMRHP-1402	22.4	292.7	-1785	105545	0.9	1.6
		VL Amber Popcorn (C)	14.2	181.3	-8650	39830	0.7	2.6
	200:60:80	DMRHP-1402	15.5	259.3	-3854	107392	0.9	1.6
		VL Amber Popcorn (C)	24.4	185.3	-12429	42601	0.6	2.4
Mean of location			19.1	230.4	-6413.5	74756.5	0.8	2.1
83,000			19.2	231.2	-6148	75671	0.8	2.1
100,000			19.1	229.7	-6679	73842	0.8	2.1
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			25.3	13.2	-40.8	45.4	10.7	14.7
150:50:60			18.7	231.3	-5133	71256	0.8	2.1
200:60:80			19.6	229.5	-7694	78257	0.8	2.1
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			40.1	8.6	-30.7	28.7	7.9	16.9
DMRHP-1402			19.8	280.7	-2331	108648	0.9	1.6
VL Amber Popcorn (C)			18.5	180.2	-10496	40866	0.7	2.5
CD at 5%			NS	32.2	1255.5	15103.0	0.0	0.2
CV (%)			12.7	14.8	-14.1	21.5	3.6	10.8

Cont….

Density	N:P_2O_5:K_2O	Genotypes	Cob length (cm)	Cob girth (cm)	Grain rows/ cob	Grains/ row	Insect-pest and disease incidence, if any
			Karimnagar				Dharwad
83,000	150:50:60	DMRHP-1402	17.6	15.3	13.8	36.5	2.5
		VL Amber Popcorn (C)	16.0	10.9	11.0	34.2	6.5
	200:60:80	DMRHP-1402	17.9	15.1	14.2	37.5	3.0
		VL Amber Popcorn (C)	16.9	11.3	11.6	35.4	6.5
100,000	150:50:60	DMRHP-1402	16.1	14.4	12.9	35.3	3.5
		VL Amber Popcorn (C)	15.8	10.8	11.1	34.3	7.5
	200:60:80	DMRHP-1402	16.4	14.4	14.0	33.7	2.5
		VL Amber Popcorn (C)	16.0	10.8	10.7	33.1	6.0
Mean of location			16.6	12.9	12.4	35.0	4.8
83,000			17.1	13.2	12.6	35.9	4.6
100,000			16.1	12.6	12.2	34.1	4.9
CD at 5%			NS	0.1	NS	NS	NS
CV (%)			5.2	0.3	6.9	5.6	10.5
150:50:60			16.4	12.9	12.2	35.1	5.0
200:60:80			16.8	12.9	12.6	35.0	4.5
CD at 5%			NS	NS	NS	NS	NS
CV (%)			5.0	1.0	3.2	10.0	16.6
DMRHP-1402			17.0	14.8	13.7	35.8	2.9
VL Amber Popcorn (C)			16.2	11.0	11.1	34.3	6.6
CD at 5%			NS	0.4	0.8	NS	0.9
CV (%)			9.0	3.4	6.9	7.1	12.9

Table 9: Performance of pre release popcorn genotypes under varying planting density and nutrients levels in Central West Zone (CWZ).

Density	$N:P_2O_5:K_2O$	Genotypes	Grain yield (kg/ha)		Mean (CWZ)	Stover yield (kg/ha)		Plants ('000/ha)	
			Godhra	Udaipur		Godhra	Udaipur	Godhra	Udaipur
66,000	150:50:60	DMRHP-1402	2733	2512	2623	2833	3501	29.7	61.2
		VL Amber Popcorn (C)	2167	1058	1613	1600	1349	26.7	60.2
	200:60:80	DMRHP-1402	3133	2644	2889	3667	3726	36.7	61.1
		VL Amber Popcorn (C)	2533	1115	1824	2067	1419	32.0	62.2
83,000	150:50:60	DMRHP-1402	2800	3040	2920	3400	4224	30.7	80.0
		VL Amber Popcorn (C)	3033	1444	2239	3000	2043	40.7	78.4
	200:60:80	DMRHP-1402	2333	3116	2725	3033	4429	29.0	79.0
		VL Amber Popcorn (C)	1533	1406	1470	2300	2113	29.3	80.4
Mean of location			2533.3	2042.0	2287.6	2737.5	2850.5	31.8	70.3
66,000			2642	1832	2237	2542	2499	31.3	61.2
83,000			2425	2252	2338	2933	3202	32.4	79.5
CD at 5%			NS	130.0	130.0	NS	82.3	NS	3.1
CV (%)			29.6	3.6	16.6	26.1	1.6	25.0	2.5
150:50:60			2683	2014	2349	2708	2779	31.9	70.0
200:60:80			2383	2070	2227	2767	2922	31.8	70.7
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			18.2	10.8	14.5	27.9	9.4	22.9	2.7
DMRHP-1402			2750	2828	2789	3233	3970	31.5	70.3
VL Amber Popcorn (C)			2317	1256	1786	2242	1731	32.2	70.3
CD at 5%			NS	204.1	204.1	568.4	228.2	NS	NS
CV (%)			21.3	10.6	16.0	22.1	8.5	24.2	1.8

Cont….

Density	$N:P_2O_5:K_2O$	Genotypes	Cobs ('000/ha)		Plant height (cm)	Days to 50% tasseling		Days to 50% silking	
			Godhra	Udaipur	Godhra	Godhra	Udaipur	Godhra	Udaipur
66,000	150:50:60	DMRHP-1402	46.0	62.5	145.0	47.7	42.0	50.3	46.3
		VL Amber Popcorn (C)	37.3	61.5	158.3	48.7	40.3	51.0	44.7
	200:60:80	DMRHP-1402	49.3	62.1	171.7	48.3	41.0	51.3	45.3
		VL Amber Popcorn (C)	41.7	63.7	145.0	48.3	39.7	51.3	44.0
83,000	150:50:60	DMRHP-1402	48.7	82.2	141.7	49.3	42.0	52.3	46.3
		VL Amber Popcorn (C)	47.3	79.9	170.0	48.3	41.3	52.0	45.7
	200:60:80	DMRHP-1402	47.7	80.5	176.7	47.7	41.0	52.7	45.3
		VL Amber Popcorn (C)	33.3	81.2	143.3	49.3	39.7	52.7	44.0
Mean of location			43.9	71.7	156.5	48.5	40.9	51.7	45.2
66,000			43.6	62.4	155.0	48.3	40.8	51.0	45.1
83,000			44.3	80.9	157.9	48.7	41.0	52.4	45.3
CD at 5%			NS	7.3	NS	NS	NS	0.7	NS
CV (%)			25.5	5.8	3.3	1.1	7.9	0.8	5.6
150:50:60			44.8	71.5	153.8	48.5	41.4	51.4	45.8
200:60:80			43.0	71.9	159.2	48.4	40.3	52.0	44.7
CD at 5%			NS	NS	4.3	NS	NS	NS	NS
CV (%)			17.2	1.5	2.4	2.0	4.5	1.2	3.6
DMRHP-1402			47.9	71.8	158.8	48.3	41.5	51.7	45.8
VL Amber Popcorn (C)			39.9	71.6	154.2	48.7	40.3	51.8	44.6
CD at 5%			NS	NS	3.0	0.2	0.8	NS	1.1
CV (%)			22.6	1.9	2.1	0.4	2.2	0.6	2.6

Cont….

Density	N:P_2O_5:K_2O	Genotypes	100-seed weight (g)		Net returns (Rs./ha)		BC ratio		Popping (%)	
			Godhra	Udaipur	Godhra	Udaipur	Godhra	Udaipur	Godhra	Udaipur
66,000	150:50:60	DMRHP-1402	19.0	14.0	26651	181471	2.02	7.9	85.3	60.2
		VL Amber Popcorn (C)	17.3	9.7	14086	63053	1.54	2.7	95.3	84.2
	200:60:80	DMRHP-1402	18.0	13.9	33602	191299	2.20	8.0	90.3	61.2
		VL Amber Popcorn (C)	16.7	9.6	19571	66699	1.70	2.8	90.0	84.9
83,000	150:50:60	DMRHP-1402	16.7	13.0	29156	224338	2.11	9.7	86.7	60.2
		VL Amber Popcorn (C)	26.0	8.7	32096	94477	2.22	4.1	89.3	84.2
	200:60:80	DMRHP-1402	21.7	13.1	18609	229639	1.66	9.5	87.7	61.4
		VL Amber Popcorn (C)	16.7	8.8	3352	90550	1.12	3.8	88.7	85.0
Mean of location			19.0	11.3	22140.4	142690.7	1.82	6.1	89.2	72.7
66,000			17.8	11.8	23478	125631	1.86	5.4	90.3	72.6
83,000			20.3	10.9	20803	159751	1.78	6.8	88.1	72.7
CD at 5%			NS	NS		10475.5		0.4	0.4	NS
CV (%)			13.4	4.7		4.2		4.1	0.2	2.8
150:50:60			19.8	11.4	25497	140835	1.97	6.1	89.2	72.2
200:60:80			18.3	11.3	18784	144547	1.67	6.0	89.2	73.1
CD at 5%			0.7	NS		NS		NS	NS	NS
CV (%)			3.0	3.7		12.6		12.7	0.8	5.6
DMRHP-1402			18.8	13.5	27005	206687	2.00	8.8	87.5	60.7
VL Amber Popcorn (C)			19.2	9.2	17276	78695	1.64	3.3	90.8	84.6
CD at 5%			NS	0.7		16545.2		0.7	0.6	4.1
CV (%)			8.7	6.7		12.3		12.4	0.8	6.0

Table 10: Performance of pre release sweet corn genotypes under varying planting density and nutrients levels in Northern Hill Zone (NHZ).

Density	$N:P_2O_5:K_2O$	Genotypes	Green Cob yield (kg/ha)		Mean (NHZ)	Green fodder yield (kg/ha)		Plants ('000/ha)	
			Almora	Udhampur		Almora	Udhampur	Almora	Udhampur
66,000	150:50:60	BSCH 6	20257	16871	18564	30764	21242	66.7	62.3
		FSCH 55*	20462	17303	18882	26093	22098	66.7	61.7
		Misthi (C)	31119	19770	25444	36703	24660	66.7	66.0
		Madhuri Sweet Corn (C)	20916	16913	18914	26394	21219	66.7	62.3
		Priya Sweet Corn (C)	16908	17561	17234	20417	22136	66.7	65.0
	200:60:80	BSCH 6	21957	17074	19515	31657	23418	66.7	61.0
		FSCH 55*	22785	20101	21443	27431	28107	66.7	62.0
		Misthi (C)	32200	21749	26974	37222	29485	66.7	64.0
		Madhuri Sweet Corn (C)	21442	16837	19139	28965	23165	66.7	63.0
		Priya Sweet Corn (C)	18869	18583	18726	22296	25788	66.7	64.3
83,000	150:50:60	BSCH 6	21601	17482	19541	31151	21647	66.7	79.7
		FSCH 55*	22138	17742	19940	26985	22268	66.7	76.7
		Misthi (C)	31730	19149	25439	37708	23529	83.3	81.3
		Madhuri Sweet Corn (C)	21596	17431	19514	26848	21496	83.3	78.7
		Priya Sweet Corn (C)	19388	17682	18535	22639	21866	83.3	81.7
	200:60:80	BSCH 6	23061	17629	20345	32259	23744	83.3	80.0
		FSCH 55*	23963	16767	20365	29068	23003	83.3	77.3
		Misthi (C)	32913	17779	25346	38465	23674	83.3	81.7
		Madhuri Sweet Corn (C)	22242	16653	19447	30972	22476	83.3	79.3
		Priya Sweet Corn (C)	20085	17047	18566	23266	23217	83.3	80.7
Mean of location			23281.5	17906.2	20593.9	29365.2	23412.0	73.3	71.4
66,000			22691	18276	20484	28794	24132	66.7	63.2
83,000			23872	17536	20704	29936	22692	80.0	79.7
CD at 5%			NS	509.2	143.1	NS	143.1	0.0	1.9
CV (%)			6.7	2.6	4.6	12.3	0.6	0.0	2.4
150:50:60			22611	17790	20201	28570	22216	71.7	71.5
200:60:80			23952	18022	20987	30160	24608	75.0	71.3
CD at 5%			1286.2	NS	1286.2	1370.0	124.1	0.0	NS
CV (%)			7.7	3.8	5.8	6.5	0.7	0.0	1.6
BSCH 6			21719	17264	19491	31458	22513	70.8	70.8
FSCH 55*			22337	17979	20158	27394	23869	70.8	69.4
Misthi (C)			31990	19612	25801	37525	25337	75.0	73.3
Madhuri Sweet Corn (C)			21549	16959	19254	28295	22089	75.0	70.8
Priya Sweet Corn (C)			18812.4	17718	18265	22154	23252	75.0	72.9
CD at 5%			1379.5	405.9	892.7	2020.3	1544.7	0.0	0.8
CV (%)			7.1	2.7	4.9	8.3	7.9	0.0	1.3

Cont….

Density	$N:P_2O_5:K_2O$	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling	
			Almora	Udhampur	Almora	Udhampur	Almora	Udhampur
66,000	150:50:60	BSCH 6	73.2	61.7	187.5	196.6	57.0	54.0
		FSCH 55*	69.5	64.3	186.4	192.6	56.0	54.7
		Misthi (C)	80.0	72.0	215.2	196.4	55.7	54.3
		Madhuri Sweet Corn (C)	77.2	63.0	196.5	185.0	50.3	53.3
		Priya Sweet Corn (C)	76.4	69.0	176.1	177.9	51.0	53.7
	200:60:80	BSCH 6	78.1	61.3	191.5	177.3	56.0	53.3
		FSCH 55*	79.9	66.0	188.4	181.3	55.0	55.3
		Misthi (C)	84.0	67.0	222.3	190.6	56.0	53.7
		Madhuri Sweet Corn (C)	80.0	62.3	204.7	172.6	50.3	54.3
		Priya Sweet Corn (C)	80.1	64.3	183.7	175.9	50.7	53.0
83,000	150:50:60	BSCH 6	83.3	79.0	189.0	192.6	57.3	52.7
		FSCH 55*	83.3	80.0	186.5	189.9	54.7	53.7
		Misthi (C)	89.6	86.7	219.6	187.9	56.3	52.7
		Madhuri Sweet Corn (C)	87.6	77.7	202.4	176.5	51.7	55.0
		Priya Sweet Corn (C)	88.3	84.7	178.0	185.8	50.3	53.7
	200:60:80	BSCH 6	84.7	79.7	193.9	191.5	57.0	53.3
		FSCH 55*	91.7	81.7	191.7	189.3	56.3	53.3
		Misthi (C)	91.7	88.0	227.6	189.9	56.0	55.3
		Madhuri Sweet Corn (C)	88.2	78.7	217.1	184.7	51.0	53.7
		Priya Sweet Corn (C)	88.9	82.3	190.5	199.0	50.7	54.3
Mean of location			82.8	73.5	197.4	186.7	54.0	53.9
66,000			77.8	65.1	195.2	184.6	53.8	54.0
83,000			87.7	81.8	199.6	188.7	54.1	53.8
CD at 5%			9.6	3.6	NS	NS	NS	NS
CV (%)			10.4	4.4	5.4	6.1	3.5	3.1
150:50:60			80.8	73.8	193.7	188.1	54.0	53.8
200:60:80			84.7	73.1	201.1	185.2	53.9	54.0
CD at 5%			2.7	NS	NS	NS	NS	NS
CV (%)			4.5	2.0	5.4	6.2	2.8	2.6
BSCH 6			79.8	70.4	190.5	189.5	56.8	53.3
FSCH 55*			81.1	73.0	188.3	188.3	55.5	54.3
Misthi (C)			86.3	78.4	221.2	191.2	56.0	54.0
Madhuri Sweet Corn (C)			83.2	70.4	205.2	179.7	50.8	54.1
Priya Sweet Corn (C)			83.4	75.1	182.1	184.6	50.7	53.7
CD at 5%			3.9	2.4	7.4	6.3	0.8	NS
CV (%)			5.6	4.0	4.5	4.1	1.7	2.8

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Density	N:P_2O_5:K_2O	Genotypes	Days to 50% silking		Net returns (Rs./ha)		BC ratio	
			Almora	Udhampur	Almora	Udhampur	Almora	Udhampur
66,000	150:50:60	BSCH 6	60.0	58.0	480024	62655	9.4	2.28
		FSCH 55*	59.0	59.0	481508	66999	9.5	2.44
		Misthi (C)	58.7	58.3	756138	90410	14.8	3.29
		Madhuri Sweet Corn (C)	53.3	57.3	492894	61132	9.6	2.23
		Priya Sweet Corn (C)	54.0	57.7	387930	72069	7.6	2.62
	200:60:80	BSCH 6	59.0	57.7	521572	66466	9.9	2.20
		FSCH 55*	58.0	59.3	538862	82865	10.2	2.81
		Misthi (C)	59.0	57.7	781949	97752	14.8	3.39
		Madhuri Sweet Corn (C)	53.3	58.3	506493	57472	9.6	1.86
		Priya Sweet Corn (C)	53.7	54.7	436830	71786	8.3	2.28
83,000	150:50:60	BSCH 6	60.3	56.3	511171	59889	9.5	2.18
		FSCH 55*	57.7	57.3	521273	73506	9.7	2.68
		Misthi (C)	59.3	56.7	769471	93952	14.3	3.42
		Madhuri Sweet Corn (C)	54.7	59.7	507503	67941	9.4	2.47
		Priya Sweet Corn (C)	53.3	57.7	448916	72227	8.3	2.63
	200:60:80	BSCH 6	60.0	57.0	546999	67601	9.9	2.24
		FSCH 55*	59.3	57.3	566816	62543	10.2	2.12
		Misthi (C)	59.0	59.3	798078	88159	14.4	3.06
		Madhuri Sweet Corn (C)	54.0	58.0	525389	67016	9.5	2.17
		Priya Sweet Corn (C)	53.7	58.3	465282	69211	8.4	2.19
Mean of location			57.0	57.8	552254.9	72582.6	10.4	2.53
66,000			56.8	57.8	538420	72961	10.4	2.54
83,000			57.1	57.8	566090	72205	10.4	2.52
CD at 5%			NS	NS	NS	410.2	NS	0.01
CV (%)			3.3	0.8	7.0	0.5	6.5	0.50
150:50:60			57.0	57.8	535683	72078	10.2	2.63
200:60:80			56.9	57.8	568827	73087	10.5	2.43
CD at 5%			NS	NS	31633.5	221.3	NS	0.01
CV (%)			2.6	2.2	8.0	0.4	7.7	0.66
BSCH 6			59.8	57.3	514942	64153	9.7	2.23
FSCH 55*			58.5	58.3	527115	71478	9.9	2.51
Misthi (C)			59.0	58.0	776409	92568	14.6	3.29
Madhuri Sweet Corn (C)			53.8	58.3	508070	63390	9.5	2.18
Priya Sweet Corn (C)			53.7	57.1	434739	71323	8.1	2.43
CD at 5%			0.8	NS	35210.5	731.9	0.7	0.03
CV (%)			1.6	3.2	7.7	1.2	7.6	1.28

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Density	N:P_2O_5:K_2O	Genotypes	Total soluble solids (%)	Turcicum Leaf Blight (1-5 scale score)	Maydis Leaf Blight (1-5 scale score)
			Almora	Almora	Almora
66,000	150:50:60	BSCH 6	17.9	2.3	1.0
		FSCH 55*	18.0	2.3	1.7
		Misthi (C)	18.0	2.3	1.3
		Madhuri Sweet Corn (C)	19.2	1.7	1.3
		Priya Sweet Corn (C)	19.2	2.3	1.7
	200:60:80	BSCH 6	19.0	1.7	1.7
		FSCH 55*	18.4	2.7	1.0
		Misthi (C)	17.5	2.7	1.7
		Madhuri Sweet Corn (C)	17.7	2.0	2.3
		Priya Sweet Corn (C)	18.4	2.0	2.0
83,000	150:50:60	BSCH 6	19.2	1.3	1.3
		FSCH 55*	18.1	2.7	1.0
		Misthi (C)	18.0	3.0	1.7
		Madhuri Sweet Corn (C)	18.8	2.3	2.0
		Priya Sweet Corn (C)	19.1	1.7	1.7
	200:60:80	BSCH 6	17.8	1.0	1.7
		FSCH 55*	17.5	3.0	1.7
		Misthi (C)	17.6	3.0	2.0
		Madhuri Sweet Corn (C)	17.8	2.7	2.3
		Priya Sweet Corn (C)	19.0	1.0	2.0
Mean of location			18.3	2.2	1.7
66,000			18.3	2.2	1.6
83,000			18.3	2.2	1.7
CD at 5%			NS	NS	NS
CV (%)			5.5	29.6	15.6
150:50:60			18.5	2.2	1.5
200:60:80			18.1	2.2	1.8
CD at 5%			NS	NS	NS
CV (%)			5.4	18.7	31.3
BSCH 6			18.4	1.6	1.4
FSCH 55*			18.0	2.7	1.3
Misthi (C)			17.8	2.8	1.7
Madhuri Sweet Corn (C)			18.4	2.2	2.0
Priya Sweet Corn (C)			18.9	1.8	1.8
CD at 5%			0.6	0.4	0.4
CV (%)			4.2	21.3	30.0

Table 11: Performance of pre release sweet corn genotypes under varying planting density and nutrients levels in North West Plain Zone (NWPZ).

Density	$N:P_2O_5:K_2O$	Genotypes	Green cob yield (kg/ha)		Mean (NWPZ)	Green fodder yield (kg/ha)		Plants ('000/ha)	
			Delhi	Ludhiana		Delhi	Ludhiana	Delhi	Ludhiana
66,000	150:50:60	BSCH 6	8767	10648	9707	11003	21630	66.0	64.8
		Misthi (C)	11423	14370	12897	15127	22889	69.5	64.1
		Madhuri Sweet Corn (C)	6953	9444	8199	12347	20741	66.1	60.4
		Priya Sweet Corn (C)	7173	8981	8077	8953	20481	65.6	63.0
	200:60:80	BSCH 6	7287	11667	9477	8643	21778	56.2	63.7
		Misthi (C)	15680	14537	15109	19137	23444	72.9	65.2
		Madhuri Sweet Corn (C)	8150	10093	9121	11543	21037	70.4	64.1
		Priya Sweet Corn (C)	9690	9259	9475	10337	21741	69.4	64.4
83,000	150:50:60	BSCH 6	8753	12778	10766	11730	22444	72.8	77.8
		Misthi (C)	12967	16222	14594	18213	23741	78.4	80.0
		Madhuri Sweet Corn (C)	10370	9593	9981	13273	21556	84.6	78.9
		Priya Sweet Corn (C)	10000	9741	9870	12593	21407	96.9	80.0
	200:60:80	BSCH 6	12530	13185	12858	15187	22741	79.0	81.5
		Misthi (C)	17470	16556	17013	21297	24370	90.1	80.4
		Madhuri Sweet Corn (C)	10060	10407	10234	12963	21889	84.0	83.3
		Priya Sweet Corn (C)	7843	10259	9051	8333	22630	71.0	80.7
Mean of location			10319.8	1173.8	11026.8	13167.5	22157	74.6	72.0
66,000			9390	11125	10258	12136	21718	67.0	63.7
83,000			11249	12343	11796	14199	22597	82.1	80.3
CD at 5%			NS	1139.3	1139.3	NS	NS	NS	5.5
CV (%)			49.0	7.8	28.4	70.6	5.6	20.1	6.2
150:50:60			9551	11472	10512	12905	21861	75.0	71.1
200:60:80			11089	11995	11542	13430	22454	74.1	72.9
CD at 5%			NS	332.0	332.0	NS	537.9	NS	NS
CV (%)			42.8	3.5	23.2	34.6	3.0	23.4	4.1
BSCH 6			9334	12069	10702	11641	22148	68.5	71.9
Misthi (C)			14385	15421	14903	18443	23611	77.7	72.4
Madhuri Sweet Corn (C)			8883	9884	9384	12532	21306	76.3	71.7
Priya Sweet Corn (C)			8677	9560	9118	10054	21565	75.7	72.0
CD at 5%			2142.0	633.6	1387.8	2095.6	1555.2	NS	NS
CV (%)			24.6	6.4	15.5	18.9	8.3	15.4	2.9

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Density	$N:P_2O_5:K_2O$	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling	Days to 50% silking	
			Delhi	Ludhiana	Delhi	Ludhiana	Ludhiana	Delhi	Ludhiana
66,000	150:50:60	BSCH 6	58.0	61.5	122.3	143.3	56.3	53.3	58.3
		Misthi (C)	61.1	61.5	145.7	151.0	57.0	50.3	59.0
		Madhuri Sweet Corn (C)	55.6	57.8	159.8	130.3	53.3	48.3	55.7
		Priya Sweet Corn (C)	67.9	60.7	120.0	129.7	53.7	62.0	55.7
	200:60:80	BSCH 6	43.8	60.0	102.2	151.3	52.0	54.7	54.3
		Misthi (C)	79.6	63.0	157.8	160.0	54.0	51.0	56.0
		Madhuri Sweet Corn (C)	62.8	61.5	147.2	155.0	53.0	48.3	55.0
		Priya Sweet Corn (C)	83.1	61.5	130.6	146.7	50.7	62.7	52.7
83,000	150:50:60	BSCH 6	64.2	75.2	110.0	150.7	57.0	54.7	59.0
		Misthi (C)	71.0	77.8	150.9	161.7	57.7	49.3	59.7
		Madhuri Sweet Corn (C)	78.4	76.7	147.8	138.0	54.0	49.0	56.0
		Priya Sweet Corn (C)	88.3	77.4	129.4	141.3	54.3	59.7	56.3
	200:60:80	BSCH 6	71.6	78.9	140.1	160.0	57.0	53.3	59.0
		Misthi (C)	88.3	77.8	175.2	167.7	56.0	50.0	58.0
		Madhuri Sweet Corn (C)	79.0	81.1	143.6	148.3	53.3	49.3	55.3
		Priya Sweet Corn (C)	69.1	78.5	126.8	153.3	52.7	60.0	54.7
Mean of location			70.1	69.4	138.1	149.3	54.5	53.5	56.5
66,000			64.0	60.9	135.7	145.9	53.8	53.8	55.8
83,000			76.2	77.9	140.5	152.6	55.3	53.2	57.3
CD at 5%			NS	4.7	NS	NS	NS	NS	NS
CV (%)			24.0	5.5	19.1	8.5	3.2	2.7	3.3
150:50:60			68.1	68.6	135.7	143.3	55.4	53.3	57.5
200:60:80			72.2	70.3	140.4	155.3	53.6	53.7	55.6
CD at 5%			NS	NS	NS	10.8	1.1	NS	1.2
CV (%)			30.9	4.5	11.9	9.0	2.6	3.6	2.7
BSCH 6			59.4	68.9	118.7	151.3	55.6	54.0	57.7
Misthi (C)			75.0	70.0	157.4	160.1	56.2	50.2	58.2
Madhuri Sweet Corn (C)			68.9	69.3	149.6	142.9	53.4	48.8	55.5
Priya Sweet Corn (C)			77.1	69.5	126.7	142.8	52.8	61.1	54.8
CD at 5%			11.3	NS	13.2	11.3	0.9	1.6	0.9
CV (%)			19.1	3.3	11.3	9.0	1.9	3.6	1.9

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Density	$N:P_2O_5:K_2O$	Genotypes	Total soluble solids (%)	Barren plants ('000/ha)	Net returns (Rs/ha)	BC ratio
			Delhi	Ludhiana	Ludhiana	Ludhiana
66,000	150:50:60	BSCH 6	14.8	3333	36144	0.82
		Misthi (C)	16.0	2593	57876	1.31
		Madhuri Sweet Corn (C)	15.9	2593	28635	0.65
		Priya Sweet Corn (C)	14.9	2222	25830	0.59
	200:60:80	BSCH 6	15.0	3704	37751	0.78
		Misthi (C)	16.0	2222	55205	1.15
		Madhuri Sweet Corn (C)	16.2	2593	28353	0.59
		Priya Sweet Corn (C)	15.0	2963	24474	0.51
83,000	150:50:60	BSCH 6	14.7	2593	47782	1.06
		Misthi (C)	15.7	2222	68023	1.51
		Madhuri Sweet Corn (C)	15.4	2222	29375	0.65
		Priya Sweet Corn (C)	14.6	2593	30041	0.67
	200:60:80	BSCH 6	14.3	2593	46176	0.94
		Misthi (C)	16.2	2593	66343	1.35
		Madhuri Sweet Corn (C)	17.2	2222	30047	0.61
		Priya Sweet Corn (C)	15.0	2222	29972	0.61
Mean of location			15.4	2593	40127	0.86
66,000			15.5	2778	36784	0.80
83,000			15.4	2407	43470	0.93
CD at 5%			NS	NS	6680.1	NS
CV (%)			4.0	40.6	13.4	13.4
150:50:60			15.3	2546	40463	0.91
200:60:80			15.6	2639	39790	0.82
CD at 5%			NS	NS	NS	0.1
CV (%)			3.2	32.7	7.0	6.9
BSCH 6			14.7	3056	41964	0.90
Misthi (C)			16.0	2407	61862	1.33
Madhuri Sweet Corn (C)			16.2	2407	29102	0.63
Priya Sweet Corn (C)			14.9	2500	27579	0.59
CD at 5%			0.4	NS	3609.3	0.1
CV (%)			3.4	34.8	10.7	10.5

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Table 12: Performance of pre release sweet corn genotypes under varying planting density and nutrients levels in North East Plain Zone (NEPZ).

Density	N:P_2O_5:K_2O	Genotypes	Green cobs yield (kg/ha)		Mean (NEPZ)	Green fodder yield (kg/ha)		Plants ('000/ha)	
			Bahraich	Ranchi		Bahraich	Ranchi	Bahraich	Ranchi
66,000	150:50:60	BSCH 6	8627	8569	8598	11589	13618	65.7	63.9
		FSCH 55*	8723	6854	7789	11730	12014	65.6	62.5
		Misthi (C)	8554	10083	9319	11415	16257	65.7	63.2
		Madhuri Sweet Corn (C)	8852	7264	8058	11881	12847	82.7	61.8
		Priya Sweet Corn (C)	8988	6208	7598	11684	11528	82.7	63.2
	200:60:80	BSCH 6	9085	7986	8536	12622	12618	65.8	63.2
		FSCH 55*	9817	8993	9405	13667	14757	65.7	61.8
		Misthi (C)	9173	11868	10521	12936	18507	65.8	62.5
		Madhuri Sweet Corn (C)	10234	7938	9086	15350	13597	82.7	62.5
		Priya Sweet Corn (C)	9713	7840	8776	14405	13576	82.7	63.2
83,000	150:50:60	BSCH 6	10153	10076	10115	14541	17472	82.8	79.2
		FSCH 55*	9078	8806	8942	11928	15965	82.8	79.9
		Misthi (C)	8478	8944	8711	11165	15167	82.7	79.9
		Madhuri Sweet Corn (C)	8605	8125	8365	11760	15028	65.8	80.6
		Priya Sweet Corn (C)	8692	6965	7828	11733	13090	65.6	80.6
	200:60:80	BSCH 6	11535	11986	11761	16708	20868	82.8	79.9
		FSCH 55*	11995	9500	10748	18005	17215	82.8	79.2
		Misthi (C)	9878	9604	9741	14753	16347	82.7	79.9
		Madhuri Sweet Corn (C)	9032	8361	8696	12667	15444	65.7	79.9
		Priya Sweet Corn (C)	9493	7521	8507	13596	14076	65.7	80.6
Mean of location			9435.3	8674.7	9055.0	13206.7	14999.7	74.2	71.4
66,000			9177	8360	8768	12728	13932	72.5	62.8
83,000			9694	8989	9341	13686	16067	75.9	79.9
CD at 5%			81.7	NS	81.7	56.7	1196.7	0.0	2.0
CV (%)			0.8	11.7	6.2	0.4	7.2	0.0	2.5
150:50:60			8875	8190	8532	11943	14299	74.2	71.5
200:60:80			9996	9160	9578	14471	15701	74.2	71.3
CD at 5%			17.2	394.1	205.6	24.3	1145.2	NS	NS
CV (%)			0.3	6.3	3.3	0.3	10.6	0.0	1.8
BSCH 6			9850	9655	9752	13865	16144	74.3	71.5
FSCH 55*			9903	8538	9221	13832	14988	74.2	70.8
Misthi (C)			9021	10125	9573	12567	16569	74.2	71.4
Madhuri Sweet Corn (C)			9181	7922	8551	12914	14229	74.2	71.2
Priya Sweet Corn (C)			9222	7134	8178	12854	13068	74.2	71.9
CD at 5%			42.1	662.8	352.5	109.4	1194.8	0.0	NS
CV (%)			0.5	9.2	4.9	1.0	9.6	0.0	2.9

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Density	$N:P_2O_5:K_2O$	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling	
			Bahraich	Ranchi	Bahraich	Ranchi	Bahraich	Ranchi
66,000	150:50:60	BSCH 6	65.5	62.5	175.3	169.9	47.0	56.0
		FSCH 55*	65.5	61.8	178.3	169.4	48.3	57.0
		Misthi (C)	65.6	62.5	176.7	172.9	48.7	59.7
		Madhuri Sweet Corn (C)	82.6	61.1	176.0	151.2	49.0	56.3
		Priya Sweet Corn (C)	83.7	62.5	176.3	177.9	47.3	53.0
	200:60:80	BSCH 6	65.7	64.6	180.0	198.9	46.0	55.0
		FSCH 55*	65.5	63.2	179.3	184.2	46.7	53.0
		Misthi (C)	65.7	63.9	179.7	176.0	47.0	57.0
		Madhuri Sweet Corn (C)	82.7	63.9	179.0	191.8	47.0	56.0
		Priya Sweet Corn (C)	82.7	64.6	178.7	173.9	45.7	51.7
83,000	150:50:60	BSCH 6	82.7	75.7	175.7	185.6	48.0	56.0
		FSCH 55*	82.7	76.4	177.0	179.4	48.7	53.0
		Misthi (C)	82.7	76.4	175.3	192.9	47.7	55.0
		Madhuri Sweet Corn (C)	65.7	77.1	179.0	182.4	48.0	54.0
		Priya Sweet Corn (C)	65.6	77.1	175.3	169.9	48.3	53.3
	200:60:80	BSCH 6	82.7	78.5	178.7	173.2	46.7	54.0
		FSCH 55*	82.7	77.8	178.7	180.9	47.7	55.0
		Misthi (C)	82.7	78.5	177.7	199.4	46.0	57.0
		Madhuri Sweet Corn (C)	65.7	78.5	180.3	173.9	46.7	54.0
		Priya Sweet Corn (C)	65.6	79.2	177.7	165.2	46.0	51.7
Mean of location			74.2	70.3	177.7	178.4	47.3	54.9
66,000			72.5	63.1	177.9	176.6	47.3	55.5
83,000			75.9	77.5	177.5	180.3	47.4	54.3
CD at 5%			0.4	2.6	NS	NS	NS	NS
CV (%)			0.5	3.3	0.3	3.8	0.9	3.7
150:50:60			74.2	69.3	176.5	175.2	48.1	55.3
200:60:80			74.2	71.3	179.0	181.7	46.5	54.4
CD at 5%			NS	0.6	1.2	5.3	0.3	NS
CV (%)			0.5	1.1	0.9	4.2	0.9	4.8
BSCH 6			74.1	70.3	177.4	181.9	46.9	55.3
FSCH 55*			74.1	69.8	178.3	178.5	47.8	54.5
Misthi (C)			74.2	70.3	177.3	185.3	47.3	57.2
Madhuri Sweet Corn (C)			74.2	70.1	178.6	174.8	47.7	55.1
Priya Sweet Corn (C)			74.4	70.8	177.0	171.7	46.8	52.4
CD at 5%			NS	NS	NS	9.3	0.4	1.0
CV (%)			0.5	4.4	0.9	6.3	0.9	2.3

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Density	N:P_2O_5:K_2O	Genotypes	Days to 50% silking		Net return (Rs./ha)		BC ratio		Total soluble solids (%)
			Bahraich	Ranchi	Bahraich	Ranchi	Bahraich	Ranchi	Ranchi
66,000	150:50:60	BSCH 6	52.0	59.0	46172	55632	2.92	1.70	19.4
		FSCH 55*	52.3	60.0	46959	38159	2.95	1.16	19.4
		Misthi (C)	51.7	62.3	45570	71299	2.90	2.17	18.4
		Madhuri Sweet Corn (C)	52.0	59.3	48001	42423	2.94	1.29	17.8
		Priya Sweet Corn (C)	52.0	56.0	49021	31603	3.04	0.96	18.5
	200:60:80	BSCH 6	51.0	57.7	47942	48070	2.84	1.40	18.9
		FSCH 55*	50.3	55.7	53900	58567	3.07	1.71	19.9
		Misthi (C)	50.0	59.7	48682	88067	2.87	2.57	20.0
		Madhuri Sweet Corn (C)	50.3	58.7	50743	47780	3.20	1.39	19.4
		Priya Sweet Corn (C)	49.0	54.3	53141	46803	3.04	1.36	19.0
83,000	150:50:60	BSCH 6	52.7	59.3	58620	71307	3.44	2.16	18.2
		FSCH 55*	53.0	56.3	49814	58298	3.07	1.77	17.9
		Misthi (C)	52.3	58.3	44943	59527	2.87	1.81	18.3
		Madhuri Sweet Corn (C)	51.7	57.3	46015	51305	2.91	1.56	19.4
		Priya Sweet Corn (C)	52.0	56.7	46706	39320	2.95	1.19	20.0
	200:60:80	BSCH 6	50.7	57.0	67950	88940	3.61	2.53	19.5
		FSCH 55*	51.7	58.0	71759	63348	3.75	1.81	19.3
		Misthi (C)	49.7	60.0	54501	64216	3.09	1.83	17.8
		Madhuri Sweet Corn (C)	50.0	57.0	47519	51605	2.83	1.47	18.4
		Priya Sweet Corn (C)	49.3	54.7	51306	42929	2.97	1.22	19.7
Mean of location			51.2	57.9	51463.2	55960.0	3.06	1.65	18.9
66,000			51.1	58.3	49013	52840	2.98	1.57	19.0
83,000			51.3	57.5	53913	59080	3.15	1.74	18.8
CD at 5%			NS	NS	2246.8	NS	0.04	NS	NS
CV (%)			0.9	2.5	3.9	18.4	1.22	18.26	3.7
150:50:60			52.2	58.5	48182	51887	3.00	1.58	18.7
200:60:80			50.2	57.3	54744	60033	3.13	1.73	19.2
CD at 5%			0.4	NS	1875.6	4004.1	0.02	0.12	0.2
CV (%)			1.2	4.3	5.1	10.0	0.81	9.80	1.5
BSCH 6			51.6	58.3	55171	65987	3.20	1.95	19.0
FSCH 55*			51.8	57.5	55608	54593	3.21	1.61	19.1
Misthi (C)			50.9	60.1	48424	70777	2.93	2.09	18.6
Madhuri Sweet Corn (C)			51.0	58.1	48069	48278	2.97	1.43	18.7
Priya Sweet Corn (C)			50.6	55.4	50044	40164	3.00	1.19	19.3
CD at 5%			0.6	1.1	2146.1	6777.6	0.02	0.20	NS
CV (%)			1.4	2.3	5.0	14.6	0.94	14.67	6.2

Table 13: Performance of pre release sweet corn genotypes under varying planting density and nutrients levels in Peninsular Zone (PZ).

Density	$N:P_2O_5:K_2O$	Genotypes	Cob yield with husk (kg/ha)		Mean (PZ)	Cob yield without husk (kg/ha)	Green fodder yield (kg/ha)	
			Dharwad	Karimnagar		Karimnagar	Dharwad	Karimnagar
66,000	150:50:60	BSCH 6	9308	12689	10998	9189	14137	10055
		Misthi (C)	10810	21689	16249	15729	15488	18499
		Madhuri Sweet Corn (C)	8998	16718	12858	11561	14557	14444
		Priya Sweet Corn (C)	8286	14385	11336	11197	13680	9166
	200:60:80	BSCH 6	9243	13526	11384	9808	14018	10333
		Misthi (C)	9950	18733	14342	13216	15369	15722
		Madhuri Sweet Corn (C)	8743	17770	13257	12980	14519	13111
		Priya Sweet Corn (C)	8486	14632	11559	11077	14292	10500
83,000	150:50:60	BSCH 6	11683	12830	12256	8565	13883	10222
		Misthi (C)	14571	17089	15830	11298	15622	18944
		Madhuri Sweet Corn (C)	12818	18533	15676	13355	14568	14944
		Priya Sweet Corn (C)	10852	16170	13511	12317	13377	10500
	200:60:80	BSCH 6	12147	16067	14107	11757	14164	13611
		Misthi (C)	14808	23022	18915	15964	15766	23110
		Madhuri Sweet Corn (C)	11972	17429	14701	12882	14057	14444
		Priya Sweet Corn (C)	11028	14600	12814	10434	13486	10222
Mean of location			10856.5	16617.6	13737.0	11958.1	14436.5	13614.0
66,000			9228	16268	12748	11845	14508	12729
83,000			12485	16967	14726	12071	14365	14499
CD at 5%			2201.4	NS	2201.4	NS	124.4	NS
CV (%)			4.5	16.4	10.5	12.9	0.2	15.4
150:50:60			10916	16263	13589	11651	14414	13347
260:60:80			10797	16972	13885	12265	14459	13881
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			7.7	21.5	14.6	18.5	3.4	15.6
BSCH 6			10595	13778	12186	9830	14050	11055
Misthi (C)			12535	20133	16334	14052	15561	19069
Madhuri Sweet Corn (C)			10633	17613	14123	12694	14425	14236
Priya Sweet Corn (C)			9663	14947	12305	11256	13709	10097
CD at 5%			679.3	2583.7	1631.5	1899.3	331.5	1870.0
CV (%)			5.7	18.5	12.1	18.9	2.1	16.3

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Density	N:P_2O_5:K_2O	Genotypes	Plants ('000/ha)		Cobs ('000/ha)		Plant height (cm)	
			Dharwad	Karimnagar	Dharwad	Karimnagar	Dharwad	Karimnagar
66,000	150:50:60	BSCH 6	54.0	41.3	47.0	51.4	191.7	156.0
		Misthi (C)	52.7	39.7	46.0	59.8	218.5	158.7
		Madhuri Sweet Corn (C)	53.7	52.0	47.3	55.3	193.9	166.7
		Priya Sweet Corn (C)	52.7	48.7	47.3	54.7	194.9	136.3
	200:60:80	BSCH 6	52.3	43.3	46.7	49.3	194.5	155.7
		Misthi (C)	51.7	42.7	42.3	63.6	219.5	151.3
		Madhuri Sweet Corn (C)	53.0	45.3	46.0	54.7	200.6	152.7
		Priya Sweet Corn (C)	53.0	44.0	43.3	52.4	197.0	136.7
83,000	150:50:60	BSCH 6	69.7	50.7	59.0	54.4	188.9	154.7
		Misthi (C)	68.7	45.0	62.0	65.0	213.9	145.0
		Madhuri Sweet Corn (C)	70.3	44.0	64.0	63.9	189.1	151.0
		Priya Sweet Corn (C)	67.7	47.0	62.0	56.1	191.3	159.0
	200:60:80	BSCH 6	69.3	45.7	61.3	58.0	190.2	156.0
		Misthi (C)	69.0	47.0	63.0	57.0	218.3	159.3
		Madhuri Sweet Corn (C)	69.7	53.3	63.0	61.8	191.4	149.0
		Priya Sweet Corn (C)	70.0	49.3	63.0	55.6	189.6	159.7
Mean of location			61.1	46.2	54.0	57.1	198.9	153.0
66,000			52.9	44.6	45.8	55.2	201.3	151.8
83,000			69.3	47.8	62.2	59.0	196.6	154.2
CD at 5%			0.0	NS	13.8	NS	3.6	NS
CV (%)			0.0	44.6	5.7	13.9	0.4	3.2
150:50:60			61.2	46.0	54.3	57.6	197.7	153.4
260:60:80			61.0	46.3	53.6	56.5	200.1	152.5
CD at 5%			NS	NS	NS	NS	0.1	NS
CV (%)			3.3	11.4	7.7	13.0	0.0	4.8
BSCH 6			61.3	45.3	53.5	53.3	191.3	155.6
Misthi (C)			60.5	43.6	53.3	61.3	217.5	153.6
Madhuri Sweet Corn (C)			61.7	48.7	55.1	58.9	193.7	154.8
Priya Sweet Corn (C)			60.8	47.3	53.9	54.7	193.2	147.9
CD at 5%			NS	NS	NS	4.8	2.9	NS
CV (%)			2.0	19.5	5.5	10.0	1.3	11.0

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Density	N:P_2O_5:K_2O	Genotypes	Days 50% tasseling		Days 50% Silking		Net returns (Rs./ha)		BC ratio	
			Dharwad	Karimnagar	Dharwad	Karimnagar	Dharwad	Karimnagar	Dharwad	Karimnagar
66,000	150:50:60	BSCH 6	49.5	50.0	54.0	52.3	140919	151405	3.68	3.78
		Misthi (C)	50.5	51.3	55.0	53.7	172369	184737	4.28	4.40
		Madhuri Sweet Corn (C)	45.5	51.7	45.5	54.3	135139	166959	3.57	4.07
		Priya Sweet Corn (C)	44.5	50.7	49.5	52.7	120064	164293	3.29	4.02
	200:60:80	BSCH 6	49.5	50.3	54.0	52.3	139499	140902	3.66	3.50
		Misthi (C)	50.5	51.0	54.5	53.7	155054	197789	3.95	4.51
		Madhuri Sweet Corn (C)	45.0	48.0	49.5	51.0	129999	162235	3.48	3.88
		Priya Sweet Corn (C)	44.5	48.0	49.0	50.3	124674	153346	3.38	3.72
83,000	150:50:60	BSCH 6	50.0	52.3	54.5	54.7	188164	162394	4.59	3.93
		Misthi (C)	50.0	52.3	55.0	54.7	247704	204615	5.72	4.70
		Madhuri Sweet Corn (C)	44.5	51.0	49.0	53.3	211549	200170	5.03	4.61
		Priya Sweet Corn (C)	44.5	50.7	49.0	52.3	171059	169060	4.26	4.05
	200:60:80	BSCH 6	50.0	50.7	54.0	53.0	197744	174558	4.77	4.04
		Misthi (C)	49.5	50.3	54.5	52.7	252549	170558	5.81	3.97
		Madhuri Sweet Corn (C)	45.0	49.0	50.0	51.7	194139	189668	4.70	4.30
		Priya Sweet Corn (C)	45.0	48.3	49.5	50.7	174669	164780	4.33	3.87
Mean of location			47.4	50.4	51.7	52.7	172206.1	172341.9	4.28	4.08
66,000			47.4	50.1	51.4	52.5	139715	165208	3.66	3.98
83,000			47.3	50.6	51.9	52.9	204697	179475	4.90	4.18
CD at 5%			NS	NS	NS	NS	44042.9	NS	0.8	NS
CV (%)			2.2	5.1	1.7	5.3	5.7	18.3	4.4	13.8
150:50:60			47.4	51.3	51.4	53.5	173371	175454	4.30	4.20
260:60:80			47.4	49.5	51.9	51.9	171041	169230	4.26	3.97
CD at 5%			NS	0.6	NS	0.4	NS	NS	NS	NS
CV (%)			1.6	1.5	4.2	1.0	10.0	17.2	7.7	13.0
BSCH 6			49.8	50.8	54.1	53.1	166582	157315	4.17	3.81
Misthi (C)			50.1	51.3	54.8	53.7	206919	189425	4.94	4.39
Madhuri Sweet Corn (C)			45.0	49.9	48.5	52.6	167707	179758	4.20	4.22
Priya Sweet Corn (C)			44.6	49.4	49.3	51.5	147617	162870	3.81	3.92
CD at 5%			1.0	1.3	2.1	1.4	13850.5	19185.9	0.3	0.3
CV (%)			2.0	3.1	3.7	3.1	7.4	13.2	5.7	10.0

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Density	N:P_2O_5:K_2O	Genotypes	Total soluble solids (%)		Cob length (cm)	Cob girth (cm)	Grain rows/ cob	Grains/ row	Insect-pest and disease incidence, if any
			Dharwad	Karimnagar	Karimnagar				Dharwad
66,000	150:50:60	BSCH 6	11.3	12.3	17.0	14.6	13.7	32.7	3.00
		Misthi (C)	14.2	13.3	19.4	14.5	13.7	39.0	0.00
		Madhuri Sweet Corn (C)	11.6	14.2	18.7	13.2	13.2	38.3	5.50
		Priya Sweet Corn (C)	12.0	12.0	16.1	11.5	12.7	33.7	6.00
	200:60:80	BSCH 6	12.1	12.3	17.0	13.6	14.1	34.8	2.50
		Misthi (C)	14.4	13.0	18.1	14.7	14.5	34.2	0.00
		Madhuri Sweet Corn (C)	12.2	12.7	16.5	13.0	12.7	37.1	5.50
		Priya Sweet Corn (C)	12.0	13.7	17.3	12.5	12.9	33.3	6.00
83,000	150:50:60	BSCH 6	11.9	13.5	15.0	12.5	14.0	30.9	2.50
		Misthi (C)	15.0	13.3	19.3	13.2	13.6	35.9	0.00
		Madhuri Sweet Corn (C)	11.8	12.7	18.0	13.0	12.8	33.2	5.50
		Priya Sweet Corn (C)	12.1	13.3	15.9	12.4	13.6	32.8	4.50
	200:60:80	BSCH 6	12.3	12.3	15.6	13.9	13.9	29.6	3.50
		Misthi (C)	14.7	12.7	17.2	15.0	13.6	41.5	0.00
		Madhuri Sweet Corn (C)	12.7	14.7	18.1	13.9	13.3	32.8	5.00
		Priya Sweet Corn (C)	11.9	12.7	18.1	14.0	13.7	31.5	5.50
Mean of location			12.6	13.04	17.3	13.5	13.5	34.4	3.44
66,000			12.5	12.94	17.5	13.5	13.5	35.4	3.56
83,000			12.8	13.15	17.1	13.5	13.6	33.5	3.31
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			6.0	4.8	4.3	10.5	2.8	12.7	20.6
150:50:60			12.5	13.08	17.4	13.1	13.4	34.6	3.38
260:60:80			12.8	13.00	17.2	13.8	13.6	34.3	3.50
CD at 5%			0.1	NS	NS	NS	NS	NS	NS
CV (%)			0.7	10.7	10.2	8.1	7.4	14.0	30.0
BSCH 6			11.9	12.63	16.2	13.6	13.9	32.0	2.88
Misthi (C)			14.6	13.08	18.5	14.4	13.9	37.6	0.00
Madhuri Sweet Corn (C)			12.1	13.54	17.8	13.3	13.0	35.4	5.38
Priya Sweet Corn (C)			12.0	12.92	16.9	12.6	13.2	32.8	5.50
CD at 5%			0.5	NS	1.2	1.2	NS	2.9	0.7
CV (%)			3.9	9.3	8.2	10.4	8.4	10.0	19.2

Table 14: Performance of pre release sweet corn genotypes under varying planting density and nutrients levels in Central West Zone (CWZ).

Density	N:P_2O_5:K_2O	Genotypes	Green cob yield (kg/ha)		Mean (CWZ)	Green fodder yield (kg/ha)		Plants ('000/ha)	
			Chhindwara	Udaipur		Chhindwara	Udaipur	Chhindwara	Udaipur
66,000	150:50:60	BSCH 6	9443	4554	6998	13432	9121	55.6	63.0
		Misthi (C)	16907	2031	9469	23810	4040	71.8	62.7
		Madhuri Sweet Corn (C)	12220	8424	10322	17215	20179	54.9	62.9
		Priya Sweet Corn (C)	15970	7516	11743	22511	15035	76.6	63.3
	200:60:85	BSCH 6	16525	4625	10575	23430	9254	57.6	63.5
		Misthi (C)	19233	2079	10656	27575	4164	75.9	63.0
		Madhuri Sweet Corn (C)	13678	8531	11105	19323	17045	62.3	63.5
		Priya Sweet Corn (C)	16386	7625	12006	23148	15240	77.9	62.7
83,000	150:50:60	BSCH 6	11387	5526	8457	16232	11044	59.0	80.5
		Misthi (C)	20899	2323	11611	29634	4643	75.2	81.5
		Madhuri Sweet Corn (C)	14359	10057	12208	20290	20162	58.3	80.8
		Priya Sweet Corn (C)	18504	9124	13814	26072	18247	74.5	81.5
	200:60:85	BSCH 6	19782	5630	12706	28154	11312	59.6	81.9
		Misthi (C)	24149	2294	13221	34139	4567	74.5	81.2
		Madhuri Sweet Corn (C)	16331	9901	13116	23082	19789	60.3	80.9
		Priya Sweet Corn (C)	19233	9294	14263	27091	18552	73.9	81.3
Mean of location			16562.9	6220.9	11391.9	23446.1	12649.7	66.8	72.1
66,000			15045	5673	10359	21305	11760	66.6	63.1
83,000			18080	6769	12425	25587	13540	66.9	81.2
CD at 5%			380.2	755.9	568.0	1026.4	NS	NS	2.5
CV (%)			1.8	9.8	5.8	3.5	12.8	0.9	2.8
150:50:60			14961	6195	10578	21150	12809	65.7	72.0
200:60:85			18165	6247	12206	25743	12490	67.8	72.3
CD at 5%			807.0	NS	807.0	1666.8	NS	NS	NS
CV (%)			6.1	4.9	5.5	8.9	12.4	7.3	2.6
BSCH 6			14284	5084	9684	20312	10183	57.9	72.2
Misthi (C)			20297	2182	11239	28790	4353	74.4	72.1
Madhuri Sweet Corn (C)			14147	9228	11688	19978	19294	59.0	72.1
Priya Sweet Corn (C)			17523	8390	12957	24706	16769	75.7	72.2
CD at 5%			878.2	227.7	552.9	1378.0	1399.4	3.7	NS
CV (%)			6.3	4.3	5.3	7.0	13.1	6.6	1.1

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Density	$N:P_2O_5:K_2O$	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling	
			Chhindwara	Udaipur	Chhindwara	Udaipur	Chhindwara	Udaipur
66,000	150:50:60	BSCH 6	53.5	66.2	144.7	150.3	59.0	42.0
		Misthi (C)	54.2	66.0	184.0	100.5	55.7	44.3
		Madhuri Sweet Corn (C)	54.9	65.9	168.3	200.5	54.0	44.3
		Priya Sweet Corn (C)	63.9	66.6	155.0	180.4	53.7	45.3
	200:60:80	BSCH 6	56.2	67.0	159.7	152.8	58.3	41.7
		Misthi (C)	56.2	66.2	172.7	102.5	56.0	43.0
		Madhuri Sweet Corn (C)	54.2	66.8	168.7	202.4	53.7	43.7
		Priya Sweet Corn (C)	59.7	66.1	158.3	182.9	52.7	44.0
83,000	150:50:60	BSCH 6	65.3	84.1	139.3	155.3	60.3	42.0
		Misthi (C)	77.8	85.8	169.0	105.3	57.3	44.0
		Madhuri Sweet Corn (C)	65.3	85.2	159.7	205.4	55.3	44.0
		Priya Sweet Corn (C)	87.5	85.8	151.3	185.3	54.3	45.0
	200:60:80	BSCH 6	70.8	85.8	153.0	157.7	60.0	41.0
		Misthi (C)	86.1	85.8	168.0	107.3	57.7	43.0
		Madhuri Sweet Corn (C)	79.2	85.5	164.3	208.3	55.7	43.0
		Priya Sweet Corn (C)	91.0	85.8	149.0	187.3	54.7	44.0
Mean of location			67.2	75.9	160.3	161.5	56.1	43.4
66,000			56.6	66.4	163.9	159.0	55.4	43.5
83,000			77.9	85.5	156.7	164.0	56.9	43.3
CD at 5%			7.9	2.9	1.0	NS	1.5	NS
CV (%)			9.5	3.1	0.5	6.5	2.1	6.1
150:50:60			65.3	75.7	158.9	160.4	56.2	43.9
200:60:80			69.2	76.1	161.7	162.6	56.1	42.9
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			10.8	1.7	2.5	3.9	1.0	3.9
BSCH 6			61.4	75.8	149.2	154.0	59.4	41.7
Misthi (C)			68.6	75.9	173.4	103.9	56.7	43.6
Madhuri Sweet Corn (C)			63.4	75.8	165.3	204.2	54.7	43.8
Priya Sweet Corn (C)			75.5	76.1	153.4	184.0	53.8	44.6
CD at 5%			6.4	NS	4.9	10.2	0.7	1.4
CV (%)			11.2	1.6	3.6	7.5	1.6	3.8

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Density	N:P_2O_5:K_2O	Genotypes	Days to 50% silking		Net returns (Rs./ha)		BC ratio		Total soluble solids (%)
			Chhindwara	Udaipur	Chhindwara	Udaipur	Chhindwara	Udaipur	Udaipur
66,000	150:50:60	BSCH 6	61.0	46.3	87392	107933	3.33	4.5	14.2
		Misthi (C)	57.0	48.7	93970	34703	3.58	1.4	16.3
		Madhuri Sweet Corn (C)	55.0	48.7	92061	226790	3.51	9.4	14.2
		Priya Sweet Corn (C)	55.3	49.7	112762	193818	4.30	8.0	8.4
	200:60:80	BSCH 6	59.0	46.0	95607	109764	3.34	4.5	14.0
		Misthi (C)	57.7	47.3	97680	35934	3.42	1.5	15.9
		Madhuri Sweet Corn (C)	55.3	48.0	89388	223006	3.13	9.2	14.2
		Priya Sweet Corn (C)	54.3	48.3	102409	196754	3.58	8.1	8.0
83,000	150:50:60	BSCH 6	61.7	46.3	112400	135019	4.28	5.4	14.3
		Misthi (C)	58.0	48.7	144097	42151	5.49	1.7	16.2
		Madhuri Sweet Corn (C)	57.3	48.7	114429	266540	4.36	10.6	14.2
		Priya Sweet Corn (C)	55.0	48.7	161757	239384	6.16	9.5	8.4
	200:60:80	BSCH 6	61.3	45.0	127131	137957	4.45	5.4	14.0
		Misthi (C)	59.0	47.3	160674	41058	5.62	1.6	15.9
		Madhuri Sweet Corn (C)	56.3	48.0	141259	261677	4.94	10.3	14.2
		Priya Sweet Corn (C)	56.0	48.0	166871	244028	5.84	9.6	8.0
Mean of location			57.5	47.7	118743	156032.2	4.33	6.3	13.2
66,000			56.8	47.9	96409	141088	3.52	5.8	13.2
83,000			58.1	47.6	141077	170977	5.14	6.8	13.2
CD at 5%			0.8	NS	15986.9	20908.1	0.6	0.8	NS
CV (%)			1.2	4.9	10.8	10.8	10.5	10.7	8.3
150:50:60			57.5	48.2	114858	155792	4.38	6.3	13.3
200:60:80			57.4	47.3	122627	156272	4.29	6.3	13.0
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			1.3	3.4	12.5	6.4	12.1	6.5	7.2
BSCH 6			60.8	45.9	105632	122668	3.85	4.9	14.1
Misthi (C)			57.9	48.0	124105	38461	4.53	1.5	16.1
Madhuri Sweet Corn (C)			56.0	48.3	109284	244503	3.98	9.9	14.2
Priya Sweet Corn (C)			55.2	48.7	135950	218496	4.97	8.8	8.2
CD at 5%			0.6	1.3	12978.5	7402.8	0.5	0.3	0.6
CV (%)			1.3	3.2	13.0	5.6	12.6	5.7	5.4

Table 15: Performance of pre release baby corn genotypes under varying planting density and nutrients levels in Northern Hill Zone (NHZ).

Density	N:P_2O_5:K_2O	Genotypes	Babycorn yield with husk (kg/ha)		Mean (NHZ)	Babycorn yield without husk (kg/ha)		Mean (NHZ)	Green fodder yield (kg/ha)	
			Almora	Bajaura		Almora	Bajaura		Almora	Bajaura
100,000	150:50:60	BVM-2	10726	7933	9329	2154	1021	1587	26291	22090
		HM4-C	10845	8446	9645	1974	1095	1535	40256	22521
		VIVEK43-FILLER	13519	11899	12709	2524	1354	1939	28207	18805
		VIVEK HYB. 21-FILLER	10276	9901	10088	2013	1373	1693	28500	20750
	200:60:80	BVM-2	14094	9781	11937	2486	1105	1795	27573	28316
		HM4-C	12499	8394	10446	2075	1115	1595	43054	32547
		VIVEK43-FILLER	16522	13241	14881	2803	1458	2131	32977	18407
		VIVEK HYB. 21-FILLER	12744	10478	11611	2579	1425	2002	32754	26241
1,25,000	150:50:60	BVM-2	12459	9170	10815	2277	1061	1669	29242	24500
		HM4-C	11325	11122	11223	2227	1349	1788	44867	33655
		VIVEK43-FILLER	14183	12393	13288	2705	1392	2049	31877	23251
		VIVEK HYB. 21-FILLER	11880	10916	11398	2221	1567	1894	33178	25678
	200:60:80	BVM-2	15478	11037	13258	2608	1242	1925	30171	27601
		HM4-C	12976	9117	11046	2306	1305	1805	45457	35265
		VIVEK43-FILLER	16931	13267	15099	2800	1530	2165	33888	26016
		VIVEK HYB. 21-FILLER	13364	11285	12324	2639	1493	2066	36395	26271
Mean of location			13113.7	10524	11819	2399.4	1305	1852	34042.9	25744.6
100,000			12653	10009	11331	2326	1243	1785	32452	23710
1,25,000			13575	11038	12306	2473	1367	1920	35634	27780
CD at 5%			NS	691.1	691.1	NS	105.5	105.5	NS	3257.1
CV (%)			14.9	5.3	10.1	18.6	6.5	12.5	14.5	10.2
150:50:60			11902	10222	11062	2262	1276	1769	32802	23906
200:60:80			14326	10825	12575	2537	1334	1935	35284	27583
CD at 5%			701.3	NS	701.3	183.7	NS	183.7	958.9	1428.9
CV (%)			6.7	7.6	7.1	9.6	7.7	8.6	3.5	6.9
BVM-2			13189	9480	11335	2381	1107	1744	28319	25627
HM4-C			11911	9270	10590	2145	1216	1681	43409	30997
VIVEK43-FILLER			15289	12700	13994	2708	1434	2071	31737	21620
VIVEK HYB. 21-FILLER			12066	10645	11355	2363	1464	1914	32707	24735
CD at 5%			541.2	699.0	620.1	80.1	110.8	95.4	1640.1	2184.7
CV (%)			4.9	7.9	6.4	4.0	10.1	7.0	5.7	10.1

Cont….

Density	N:P_2O_5:K_2O	Genotypes	Plants ('000/ha)		Plant height (cm)		Days to first picking		Number of pickings	
			Almora	Bajaura	Almora	Bajaura	Almora	Bajaura	Almora	Bajaura
100,000	150:50:60	BVM-2	100.0	97.1	180.3	201.3	51.0	45.0	14.3	8.0
		HM4-C	100.0	95.9	202.3	213.0	61.0	52.7	10.7	6.3
		VIVEK43-FILLER	100.0	97.1	161.5	180.0	58.0	48.3	13.0	8.0
		VIVEK HYB. 21-FILLER	100.0	96.2	179.2	203.3	54.7	47.0	13.7	8.0
	200:60:80	BVM-2	100.0	93.3	181.1	208.3	52.0	45.0	14.7	8.0
		HM4-C	100.0	96.2	202.3	214.0	60.0	52.7	12.7	5.7
		VIVEK43-FILLER	100.0	94.2	163.5	180.0	56.0	51.3	14.0	7.7
		VIVEK HYB. 21-FILLER	100.0	96.6	183.7	204.7	54.7	47.7	13.0	7.3
1,25,000	150:50:60	BVM-2	125.0	115.2	182.2	206.7	51.3	45.0	14.7	8.0
		HM4-C	125.0	114.6	210.1	214.3	61.0	54.0	11.7	6.0
		VIVEK43-FILLER	125.0	113.2	158.5	183.7	56.0	51.0	13.7	6.3
		VIVEK HYB. 21-FILLER	125.0	117.1	177.0	204.0	53.3	47.0	14.0	7.7
	200:60:80	BVM-2	125.0	111.2	182.8	207.7	51.0	45.0	14.7	7.7
		HM4-C	125.0	111.6	211.8	207.3	61.7	52.7	11.0	6.3
		VIVEK43-FILLER	125.0	113.3	160.2	187.3	57.3	51.3	13.7	6.7
		VIVEK HYB. 21-FILLER	125.0	120.0	186.8	209.7	54.0	47.0	13.3	7.7
Mean of location			112.5	105.2	182.7	201.6	55.8	48.9	13.3	7.2
100,000			100.0	95.8	181.7	200.6	55.9	48.7	13.3	7.4
1,25,000			125.0	114.5	183.7	202.6	55.7	49.1	13.3	7.0
CD at 5%			0.0	2.1	NS	NS	NS	NS	NS	0.2
CV (%)			0.0	1.6	7.8	3.0	3.2	1.5	5.7	2.0
150:50:60			112.5	105.8	181.4	200.8	55.8	48.8	13.2	7.3
200:60:80			112.5	104.6	184.0	202.4	55.8	49.1	13.4	7.1
CD at 5%			0.0	NS	2.6	NS	NS	0.3	NS	NS
CV (%)			0.0	2.7	1.8	4.3	3.3	0.8	6.1	6.6
BVM-2			112.5	104.2	181.6	206.0	51.3	45.0	14.6	7.9
HM4-C			112.5	104.6	206.6	212.2	60.9	53.0	11.5	6.1
VIVEK43-FILLER			112.5	104.4	160.9	182.8	56.8	50.5	13.6	7.2
VIVEK HYB. 21-FILLER			112.5	107.5	181.7	205.4	54.2	47.2	13.5	7.7
CD at 5%			0.0	NS	7.2	4.3	0.8	0.8	0.6	0.5
CV (%)			0.0	3.2	4.7	2.5	1.7	1.9	5.6	8.3

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Density	N:P_2O_5:K_2O	Genotypes	Net returns (Rs./ha)		BC ratio		Discarded baby corn (kg/ha)	Maydis Leaf Blight (1-5 scale score)	Turcicum Leaf Blight (1-5 scale score)
			Almora	Bajaura	Almora	Bajaura	Bajaura	Almora	Almora
100,000	150:50:60	BVM-2	116956	50700	3.4	2.2	239.3	1.7	3.0
		HM4-C	147048	56840	4.5	2.4	186.7	1.0	3.0
		VIVEK43-FILLER	135080	75861	3.7	2.9	477.3	1.3	1.0
		VIVEK HYB. 21-FILLER	115463	78230	3.2	2.9	155.3	2.3	2.3
	200:60:80	BVM-2	128304	58355	3.2	2.4	447.0	2.0	3.0
		HM4-C	153607	61112	4.1	2.4	157.3	1.7	2.7
		VIVEK43-FILLER	153510	82162	3.7	2.9	587.0	1.3	1.0
		VIVEK HYB. 21-FILLER	143571	83074	3.5	2.9	173.3	2.0	2.7
1,25,000	150:50:60	BVM-2	123350	54357	3.0	2.3	372.3	2.3	3.0
		HM4-C	163184	81544	4.3	3.0	346.3	1.7	2.3
		VIVEK43-FILLER	148785	80328	3.8	2.9	531.3	2.0	1.0
		VIVEK HYB. 21-FILLER	130390	95367	3.1	3.3	104.0	1.7	2.7
	200:60:80	BVM-2	134689	68446	3.0	2.6	477.3	2.3	3.3
		HM4-C	166494	76908	4.2	2.8	119.3	1.7	2.7
		VIVEK43-FILLER	152229	90720	3.4	3.1	570.0	2.0	1.3
		VIVEK HYB. 21-FILLER	150980	87874	3.3	3.0	200.3	1.7	3.0
Mean of location			141477.4	73867.4	3.6	2.8	321.5	1.8	2.4
100,000			136692	68292	3.7	2.6	302.9	1.7	2.3
1,25,000			146263	79443	3.5	2.9	340.1	1.9	2.4
CD at 5%			NS	8858.6	NS	0.2	NS	NS	NS
CV (%)			18.2	9.7	9.0	6.2	12.1	14.0	16.1
150:50:60			135032	71654	3.6	2.7	301.6	1.8	2.3
200:60:80			147923	76081	3.6	2.8	341.5	1.8	2.5
CD at 5%			7683.2	NS	NS	NS	39.3	NS	NS
CV (%)			6.8	10.1	5.6	6.4	15.2	37.8	12.2
BVM-2			125825	57964	3.1	2.4	384.0	2.1	3.1
HM4-C			157583	69101	4.3	2.6	202.4	1.5	2.7
VIVEK43-FILLER			147401	82268	3.7	3.0	541.4	1.7	1.1
VIVEK HYB. 21-FILLER			135101	86136	3.3	3.0	158.3	1.9	2.7
CD at 5%			5095.5	8624.7	0.2	0.2	48.4	NS	0.3
CV (%)			4.3	13.9	5.3	8.8	17.9	33.9	16.8

Table 16: Performance of pre release baby corn genotypes under varying planting density and nutrients levels in North East Plain Zone (NEPZ).

Density	N:P_2O_5:K_2O	Genotypes	Babycorn yield with husk (kg/ha)		Mean (NEPZ)	Babycorn yield without husk (kg/ha)		Mean (NEPZ)	Green fodder yield (kg/ha)	
			Bahraich	Bhubnes		Bahraich	Bhubnes		Bahraich	Bhubnes
100,000	150:50:60	BVM-2	7232	1813	4523	1767	600	1183	2173	6667
		HM4-C	7365	1413	4389	1799	480	1140	2260	7067
		VIVEK43-FILLER	7293	1960	4627	1823	587	1205	2227	7200
		VIVEK HYB. 21-FILLER	7237	2213	4725	1809	640	1224	2274	6800
	200:60:80	BVM-2	7354	2253	4804	1844	707	1275	2313	6800
		HM4-C	7590	1440	4515	1897	560	1229	2468	6400
		VIVEK43-FILLER	7420	2000	4710	1855	613	1234	2337	7333
		VIVEK HYB. 21-FILLER	7420	2400	4910	1855	693	1274	2360	6933
1,25,000	150:50:60	BVM-2	7165	2147	4656	1791	760	1276	2210	8267
		HM4-C	7348	1613	4481	1843	613	1228	2295	9667
		VIVEK43-FILLER	7258	2080	4669	1820	693	1257	2242	8133
		VIVEK HYB. 21-FILLER	7328	2480	4904	1832	733	1283	2340	7867
	200:60:80	BVM-2	7477	2293	4885	1869	827	1348	2375	8267
		HM4-C	7695	1867	4781	1923	707	1315	2559	9787
		VIVEK43-FILLER	7572	2227	4899	1893	747	1320	2426	7867
		VIVEK HYB. 21-FILLER	7572	2560	5066	1893	813	1353	2443	8667
Mean of location			7395.3	2047.5	4721.4	1844.5	673.3	1258.9	2331.4	7732.5
100,000			7364	1937	4650	1831	610	1221	2302	6900
1,25,000			7427	2158	4793	1858	737	1297	2361	8565
CD at 5%			NS	31.3	31.3	NS	87.2	87.2	NS	195.2
CV (%)			2.8	1.2	2.0	1.3	10.4	5.8	4.3	2.0
150:50:60			7278	1965	4622	1811	638	1224	2253	7708
200:60:80			7512	2130	4821	1879	708	1293	2410	7757
CD at 5%			144.0	87.7	115.9	14.0	55.9	34.9	26.7	NS
CV (%)			2.4	5.3	3.9	0.9	10.4	5.7	1.4	10.6
BVM-2			7307	2127	4717	1818	723	1270	2268	7500
HM4-C			7500	1583	4541	1866	590	1228	2396	8230
VIVEK43-FILLER			7386	2067	4726	1848	660	1254	2308	7633
VIVEK HYB. 21-FILLER			7389	2413	4901	1847	720	1284	2354	7567
CD at 5%			60.4	97.7	79.1	9.8	82.7	46.2	35.1	523.2
CV (%)			1.0	5.7	3.3	0.6	14.6	7.6	1.8	8.0

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Density	N:P_2O_5:K_2O	Genotypes	Plants ('000/ha)		Plant height (cm)		Days to first picking	
			Bahraich	Bhubnes	Banswara	Chhindwara	Bahraich	Bhubnes
100,000	150:50:60	BVM-2	99.8	84.0	192.3	146.0	55.7	49.7
		HM4-C	99.8	80.0	236.0	165.3	52.7	50.3
		VIVEK43-FILLER	99.8	84.0	199.1	140.0	53.3	50.7
		VIVEK HYB. 21-FILLER	99.8	82.7	230.1	146.0	52.0	50.3
	200:60:80	BVM-2	99.8	80.0	202.7	151.7	57.3	49.0
		HM4-C	99.8	76.0	240.3	171.7	54.0	50.0
		VIVEK43-FILLER	99.8	84.0	234.0	141.3	55.0	51.3
		VIVEK HYB. 21-FILLER	99.8	82.7	240.7	144.3	50.0	50.0
1,25,000	150:50:60	BVM-2	124.8	112.0	215.9	140.0	56.0	50.0
		HM4-C	124.7	108.0	244.7	161.3	54.0	50.3
		VIVEK43-FILLER	124.7	112.0	241.2	136.0	53.3	50.7
		VIVEK HYB. 21-FILLER	124.8	109.3	243.7	139.7	53.0	50.7
	200:60:80	BVM-2	124.8	112.0	221.3	147.0	57.3	49.7
		HM4-C	124.8	108.0	252.7	166.7	51.3	49.7
		VIVEK43-FILLER	124.8	108.0	246.5	138.3	54.7	51.3
		VIVEK HYB. 21-FILLER	124.8	112.0	252.3	142.7	50.7	50.3
Mean of location			112.3	95.9	230.8	148.6	53.8	50.3
100,000			99.8	81.7	221.9	150.8	53.8	50.2
1,25,000			124.8	110.2	239.8	146.5	53.8	50.3
CD at 5%			0.2	4.5	NS	1.1	NS	NS
CV (%)				3.8	6.8	0.6	1.0	0.8
150:50:60			112.3	96.5	225.4	146.8	53.8	50.3
200:60:80			112.3	95.3	236.3	150.5	53.8	50.2
CD at 5%			NS	NS	NS	2.2	NS	NS
CV (%)				7.7	6.0	1.8	0.8	3.0
BVM-2			112.3	97.0	208.1	146.2	56.6	49.6
HM4-C			112.3	93.0	243.4	166.3	53.0	50.1
VIVEK43-FILLER			112.3	97.0	230.2	138.9	54.1	51.0
VIVEK HYB. 21-FILLER			112.3	96.7	241.7	143.2	51.4	50.3
CD at 5%			NS	NS	9.9	3.2	0.6	0.9
CV (%)				4.7	5.1	2.5	1.4	2.2

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Density	$N:P_2O_5:K_2O$	Genotypes	Days to second Picking	Net returns (Rs./ha)		BC ratio	
			Bahraich	Bahraich	Bhubnes	Bahraich	Bhubnes
100,000	150:50:60	BVM-2	60.7	66507	54667	3.77	1.30
		HM4-C	56.3	68227	37067	3.84	0.88
		VIVEK43-FILLER	57.7	69393	53200	3.89	1.27
		VIVEK HYB. 21-FILLER	57.0	68708	60800	3.86	1.45
	200:60:80	BVM-2	61.7	68497	70800	3.63	1.69
		HM4-C	58.0	71335	48400	3.74	1.15
		VIVEK43-FILLER	59.3	69087	57333	3.65	1.37
		VIVEK HYB. 21-FILLER	55.0	69110	68933	3.65	1.64
1,25,000	150:50:60	BVM-2	59.3	67760	80267	3.82	1.91
		HM4-C	58.7	70428	59667	3.93	1.42
		VIVEK43-FILLER	58.0	69258	70133	3.88	1.67
		VIVEK HYB. 21-FILLER	57.3	69940	75867	3.91	1.81
	200:60:80	BVM-2	61.7	69825	90267	3.75	2.15
		HM4-C	55.3	71902	73787	3.76	1.76
		VIVEK43-FILLER	60.0	71059	77867	3.73	1.85
		VIVEK HYB. 21-FILLER	55.7	71077	88667	3.73	2.11
Mean of location			58.2	69507.0	66732.5	3.78	1.59
100,000			58.2	68858	56400	3.75	1.34
1,25,000			58.3	70156	77065	3.81	1.83
CD at 5%			NS	NS	13170.3	NS	0.3
CV (%)			0.5	2.2	15.9	1.68	15.9
150:50:60			58.1	68778	61458	3.86	1.46
200:60:80			58.3	70236	72007	3.70	1.71
CD at 5%			NS	755.8	7991.6	0.04	0.2
CV (%)			0.7	1.4	14.9	1.46	14.9
BVM-2			60.8	68147	74000	3.74	1.76
HM4-C			57.1	70473	54730	3.82	1.30
VIVEK43-FILLER			58.8	69699	64633	3.79	1.54
VIVEK HYB. 21-FILLER			56.3	69709	73567	3.79	1.75
CD at 5%			0.7	606.9	12512.0	0.0	0.3
CV (%)			1.4	1.0	22.3	1.1	22.3

Table 17: Performance of pre release baby corn genotypes under varying planting density and nutrients levels in Central West Zone (CWZ).

Density	N:P_2O_5:K_2O	Genotypes	Babycorn yield with husk (kg/ha)		Mean (CWZ)	Babycorn yield without husk (kg/ha)		Mean (CWZ)	Green fodder Yield (kg/ha)	
			Banswara	Chhindwara		Banswara	Chhindwara		Banswara	Chhindwara
100,000	150:50:60	BVM-2	9330	9686	9508	1615	1453	1534	27214	11335
		HM4-C	13090	7499	10295	3094	1125	2110	34944	8767
		VIVEK43-FILLER	10688	10970	10829	1859	1646	1752	17590	12813
		VIVEK HYB. 21-FILLER	13177	9964	11570	2930	1495	2212	25842	11619
	200:60:80	BVM-2	10833	10415	10624	2138	1562	1850	31600	12139
		HM4-C	13566	6353	9960	3318	953	2135	36214	7426
		VIVEK43-FILLER	11660	12081	11871	2341	1812	2077	19190	14117
		VIVEK HYB. 21-FILLER	13594	11075	12334	3047	1661	2354	26659	12908
1,25,000	150:50:60	BVM-2	11698	11109	11404	2550	1666	2108	34122	12967
		HM4-C	14247	8818	11532	3755	1323	2539	38031	10313
		VIVEK43-FILLER	12274	11457	11865	2596	1718	2157	20201	13376
		VIVEK HYB. 21-FILLER	13819	10832	12326	3365	1625	2495	27102	12631
	200:60:80	BVM-2	12146	11943	12044	2828	1791	2310	35428	13943
		HM4-C	14910	7499	11204	3993	1125	2559	39801	8766
		VIVEK43-FILLER	13191	12915	13053	2941	1937	2439	21710	15078
		VIVEK HYB. 21-FILLER	14837	12081	13459	3753	1812	2783	29097	14084
Mean of location			12691.2	10293.5	11492.3	2882.6	1544.0	2213.3	29046.6	12017.7
100,000			11992	9755	10874	2543	1463	2003	27407	11391
1,25,000			13390	10832	12111	3223	1625	2424	30687	12645
CD at 5%			948.7	323.9	636.3	359.3	48.6	203.9	1577.1	354.2
CV (%)			6.0	2.5	4.3	10.0	2.5	6.3	4.4	2.4
150:50:60			12290	10042	11166	2720	1506	2113	28131	11728
200:60:80			13092	10545	11819	3045	1582	2313	29962	12308
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			10.9	9.3	10.1	19.2	9.3	14.3	10.4	9.4
BVM-2			11002	10788	10895	2283	1618	1950	32091	12596
HM4-C			13953	7542	10748	3540	1131	2336	37248	8818
VIVEK43-FILLER			11953	11856	11904	2434	1778	2106	19673	13846
VIVEK HYB. 21-FILLER			13857	10988	12422	3274	1648	2461	27175	12811
CD at 5%			775.1	495.3	635.2	274.0	74.3	174.1	1659.2	561.2
CV (%)			7.2	5.7	6.5	11.3	5.7	8.5	6.8	5.5

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Density	N:P_2O_5:K_2O	Genotypes	Plants ('000/ha)		Plant height (cm)		Days to first picking	
			Banswara	Chhindwara	Banswara	Chhindwara	Banswara	Chhindwara
100,000	150:50:60	BVM-2	80.4	77.8	192.3	146.0	45.0	54.3
		HM4-C	85.4	74.3	236.0	165.3	45.7	57.0
		VIVEK43-FILLER	81.5	75.0	199.1	140.0	45.0	55.0
		VIVEK HYB. 21-FILLER	89.4	77.1	230.1	146.0	46.0	56.0
	200:60:80	BVM-2	84.9	82.6	202.7	151.7	46.3	53.7
		HM4-C	84.2	75.7	240.3	171.7	44.7	56.7
		VIVEK43-FILLER	84.7	73.6	234.0	141.3	46.0	54.7
		VIVEK HYB. 21-FILLER	86.9	77.1	240.7	144.3	46.7	55.3
1,25,000	150:50:60	BVM-2	94.7	95.1	215.9	140.0	48.0	55.0
		HM4-C	104.9	90.3	244.7	161.3	45.7	57.3
		VIVEK43-FILLER	101.6	93.0	241.2	136.0	45.0	55.7
		VIVEK HYB. 21-FILLER	110.0	92.3	243.7	139.7	47.3	56.3
	200:60:80	BVM-2	98.3	95.1	221.3	147.0	46.0	54.7
		HM4-C	113.8	100.0	252.7	166.7	47.3	56.7
		VIVEK43-FILLER	108.1	95.8	246.5	138.3	45.0	55.3
		VIVEK HYB. 21-FILLER	110.7	95.1	252.3	142.7	46.3	55.7
Mean of location			95.0	85.6	230.8	148.6	46.0	55.6
100,000			84.7	76.6	221.9	150.8	45.7	55.3
1,25,000			105.2	94.6	239.8	146.5	46.3	55.8
CD at 5%			6.0	4.9	NS	1.1	NS	NS
CV (%)			5.1	4.6	6.8	0.6	3.8	1.8
150:50:60			93.5	84.4	225.4	146.8	46.0	55.8
200:60:80			96.5	86.9	236.3	150.5	46.0	55.3
CD at 5%			3.0	NS	NS	2.2	NS	NS
CV (%)			3.9	6.3	6.0	1.8	2.7	1.6
BVM-2			89.6	87.7	208.1	146.2	46.3	54.4
HM4-C			97.1	85.1	243.4	166.3	45.8	56.9
VIVEK43-FILLER			94.0	84.4	230.2	138.9	45.3	55.2
VIVEK HYB. 21-FILLER			99.2	85.4	241.7	143.2	46.6	55.8
CD at 5%			3.2	NS	9.9	3.2	NS	0.8
CV (%)			4.0	6.0	5.1	2.5	2.6	1.7

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Density	$N:P_2O_5:K_2O$	Genotypes	Number of pickings	Net returns (Rs. /ha)		BC ratio	
			Chhindwara	Banswara	Chhindwara	Banswara	Chhindwara
100,000	150:50:60	BVM-2	4.0	63078	62728	1.66	2.95
		HM4-C	3.7	97340	43757	2.56	2.06
		VIVEK43-FILLER	4.0	50617	73841	1.33	3.47
		VIVEK HYB. 21-FILLER	4.3	79569	65096	2.09	3.06
	200:60:80	BVM-2	4.0	79367	66662	2.09	2.83
		HM4-C	3.7	102259	31485	2.69	1.33
		VIVEK43-FILLER	3.7	58678	81137	1.54	3.44
		VIVEK HYB. 21-FILLER	4.0	83287	72378	2.19	3.07
1,25,000	150:50:60	BVM-2	4.3	88733	75036	2.34	3.53
		HM4-C	3.7	109295	55197	2.88	2.60
		VIVEK43-FILLER	4.0	63774	78049	1.68	3.67
		VIVEK HYB. 21-FILLER	4.0	85301	72617	2.24	3.42
	200:60:80	BVM-2	4.0	93586	79922	2.46	3.39
		HM4-C	3.3	116152	41417	3.06	1.76
		VIVEK43-FILLER	4.3	71375	88348	1.88	3.75
		VIVEK HYB. 21-FILLER	4.0	94378	81104	2.48	3.44
Mean of location			3.9	83549.2	66798.3	2.20	2.99
100,000			3.9	76774	62136	2.02	2.78
1,25,000			4.0	90324	71461	2.38	3.19
CD at 5%			NS	7894.1	2769.5	0.21	0.1
CV (%)			3.7	7.6	3.3	7.61	3.4
150:50:60			4.0	79713	65790	2.10	3.10
200:60:80			3.9	87385	67807	2.30	2.87
CD at 5%			NS	NS	NS	NS	NS
CV (%)			5.2	15.4	12.4	15.38	12.1
BVM-2			4.1	81191	71087	2.14	3.17
HM4-C			3.6	106261	42964	2.80	1.94
VIVEK43-FILLER			4.0	61111	80344	1.61	3.58
VIVEK HYB. 21-FILLER			4.1	85634	72799	2.25	3.25
CD at 5%			0.3	7158.0	4271.8	0.19	0.2
CV (%)			10.4	10.2	7.6	10.17	7.5

Table 18: Nutrient management in maize-wheat-green gram cropping system under different tillage practices in Pantnagar.

Tillage practices	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	100-seed weight (g)	Net returns (Rs. /ha)	BC ratio
Zero tillage	FFP	4497	7460	63.0	64.6	195.1	51.7	54.3	29.5	44344	2.60
	SSNM	5450	7884	63.5	63.5	196.8	52.0	54.7	30.3	56702	3.21
	RDF	5556	8095	65.1	64.0	198.4	51.3	54.0	30.7	56766	2.98
Conventional tillage	FFP	4550	7143	63.5	65.1	179.6	51.3	54.7	29.4	37403	1.51
	SSNM	4921	8042	63.0	61.4	182.8	52.0	55.3	30.1	41817	1.65
	RDF	5238	7937	61.4	63.5	182.9	52.0	55.0	29.9	44770	1.67
Permanent bed	FFP	4339	6878	60.3	61.4	193.3	52.3	55.3	29.7	40177	2.11
	SSNM	4815	7460	60.8	61.9	198.3	51.7	54.3	29.5	46035	2.34
	RDF	5026	7566	62.4	63.5	197.5	51.7	54.0	29.7	47544	2.26
Location mean		4932.4	7607.3	62.6	63.2	191.6	51.8	54.6	29.9	46173.2	2.26
C.D.(5%) AiBj-AiBk		1000.7	1067.8	5.2	5.9	7.9	1.0	1.4	4.1	13659.1	0.64
C.D.(5%) AiBk-AjBk		894.5	1114.2	6.0	6.3	9.8	1.2	1.9	4.4	12209.8	0.55
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zero tillage		5168	7813	63.8	64.0	196.8	51.7	54.3	30.2	52604	2.93
Conventional tillage		4903	7707	62.6	63.3	181.8	51.8	55.0	29.8	41330	1.61
Permanent Beds		4727	7302	61.2	62.3	196.3	51.9	54.6	29.6	44586	2.23
C.D. (5%) Ai-Aj		371.8	705.5	4.3	4.1	7.4	0.9	1.5	2.9	5074.9	0.17
C.V. (%) Error A		5.8	7.1	5.3	5.0	3.0	1.3	2.1	7.5	8.4	5.8
F (5%)		NS	NS	NS	NS	S	NS	NS	NS	S	S
FFP		4462	7160	62.3	63.7	189.3	51.8	54.8	29.5	40641	2.07
SSNM		5062	7795	62.4	62.3	192.6	51.9	54.8	29.9	48185	2.40
RDF		5273	7866	63.0	63.7	192.9	51.7	54.3	30.1	49693	2.30
C.D. (5%) Bi-Bj		577.7	616.5	3.0	3.4	4.6	0.6	0.8	2.4	7886.1	0.37
C.V. (%) Error B		11.4	7.9	4.7	5.2	2.3	1.1	1.5	7.7	16.6	15.8
F (5%)		S	NS	NS	NS	NS	NS	NS	NS	NS	NS

Treatment details:

A. Main plot: Tillage Practices
T1: Zero tillage
T2: Conventional tillage
T3: Permanent bed

B. Sub plot: Nutrient management (kg $N+P_2O_5+ K_2O$/ha)
N1: Farmer's Practice (93:64:32)
N2: SSNM based on nutrient practices (120:10:46)
N3: 100% RDF (120:60:40)

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Tillage practices	Nutrient management	N uptake (kg/ha)		P uptake (kg/ha)		K uptake (kg/ha)		Total uptake (kg/ha)		
		Grain	Stover	Grain	Stover	Grain	Stover	N	P	K
Zero tillage	FFP	59.3	27.9	13.8	9.2	14.2	65.4	87.3	23.0	79.7
	SSNM	78.7	44.7	15.6	8.8	18.0	71.5	123.4	24.4	89.5
	RDF	81.6	45.7	17.2	10.7	18.3	72.9	127.3	27.9	91.2
Conventional tillage	FFP	61.8	25.8	13.9	9.2	14.5	62.4	87.6	23.1	77.0
	SSNM	72.5	44.6	13.9	9.8	16.3	74.3	117.1	23.7	90.5
	RDF	76.0	42.4	16.1	10.7	16.8	72.8	118.4	26.8	89.6
Permanent bed	FFP	54.1	24.5	12.9	8.6	14.0	59.0	78.7	21.4	73.0
	SSNM	73.0	37.3	14.1	8.9	15.9	66.6	110.3	23.0	82.5
	RDF	77.3	39.6	15.1	9.8	16.3	68.8	116.8	24.9	85.1
Location mean		70.5	36.9	14.7	9.5	16.0	68.2	107.4	24.3	84.2
C.D.(5%) AiBj-AiBk		14.8	11.9	3.4	2.2	3.9	11.2	16.8	3.5	13.0
C.D.(5%) AiBk-AjBk		14.1	13.7	3.7	2.1	3.5	15.0	17.0	4.1	17.1
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS	NS
Zero tillage		73.2	39.5	15.5	9.6	16.8	70.0	112.7	25.1	86.8
Conventional tillage		70.1	37.6	14.6	9.9	15.9	69.8	107.7	24.6	85.7
Permanent Beds		68.1	33.8	14.0	9.1	15.4	64.8	101.9	23.1	80.2
C.D. (5%) Ai-Aj		7.4	9.9	2.4	1.2	1.6	12.0	10.2	3.0	13.6
C.V. (%) Error A		8.1	20.4	12.7	9.8	7.7	13.5	7.2	9.5	12.3
F (5%)		NS	NS	NS	NS	NS	NS	NS	NS	NS
FFP		58.4	26.1	13.5	9.0	14.3	62.3	84.5	22.5	76.6
SSNM		74.7	42.2	14.6	9.2	16.7	70.8	116.9	23.7	87.5
RDF		78.3	42.6	16.1	10.4	17.1	71.5	120.9	26.6	88.6
C.D. (5%) Bi-Bj		8.6	6.9	2.0	1.3	2.2	6.5	9.7	2.0	7.5
C.V. (%) Error B		11.8	18.1	13.0	12.8	13.6	9.2	8.8	8.2	8.7
F (5%)		S	S	S	NS	S	S	S	S	S

Table 19: Nutrient management in maize-oat cropping systems under different tillage practices in Srinagar.

Tillage practices	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	100-seed weight (g)
Zero tillage	RDF	5442	13581	82.6	97.7	243.3	83.0	87.7	25.6
	SSNM	5646	13152	82.7	99.3	241.0	83.0	87.0	25.9
	FFP	4363	10216	82.7	89.4	228.3	79.7	85.0	22.5
Conventional tillage	RDF	5040	10513	82.9	96.2	243.3	83.0	87.7	25.2
	SSNM	5262	10429	82.7	96.2	247.7	83.7	88.7	25.6
	FFP	4128	11665	82.9	86.4	221.7	79.7	85.3	22.7
Permanent bed	RDF	5611	13746	82.6	88.2	242.3	85.0	89.3	25.7
	SSNM	5540	13932	82.6	89.3	245.3	84.3	89.0	25.5
	FFP	4198	10959	82.8	79.5	224.7	82.0	86.3	22.4
Location mean		5025.6	12021.4	82.7	91.4	237.5	82.6	87.3	24.6
C.D.(5%) AiBj-AiBk		488.2	540.0	0.9	2.5	13.8	3.4	3.2	1.2
C.D.(5%) AiBk-AjBk		431.5	609.3	1.0	2.3	12.8	3.4	3.3	1.4
F(5%)		NS	S	NS	NS	NS	NS	NS	NS
Zero tillage		5150	12316	82.7	95.5	237.6	81.9	86.6	24.7
Conventional tillage		4810	10869	82.8	92.9	237.6	82.1	87.2	24.5
Permanent bed		5116	12879	82.7	85.7	237.4	83.8	88.2	24.5
C.D. (5%) Ai-Aj		168.9	426.9	0.7	1.1	6.1	2.1	2.1	1.0
C.V. (%) Error A		2.6	2.7	0.6	1.0	2.0	1.9	1.9	3.1
F (5%)		S	S	NS	S	NS	NS	NS	NS
RDF		5364	12613	82.7	94.0	243.0	83.7	88.2	25.5
SSNM		5483	12504	82.7	94.9	244.7	83.7	88.2	25.6
FFP		4230	10947	82.8	85.1	224.9	80.4	85.6	22.6
C.D. (5%) Bi-Bj		281.9	311.8	0.5	1.4	8.0	2.0	1.8	0.7
C.V. (%) Error B		5.5	2.5	0.6	1.5	3.3	2.3	2.1	2.7
F (5%)		S	S	NS	S	S	S	S	S

Treatment details:

A. Main plot: Tillage Practices	**B. Sub plot: Nutrient management (kg $N+P_2O_5+ K_2O$/ha)**
T1: Zero tillage	N1: RDF (120:60:40)
T2: Conventional tillage	N2: SSNM based on nutrient expert (90:50:30)
T3:Permanent bed	N3: Farmers fertilizer practice (20:10:0)

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Tillage practices	Nutrient management	Net returns (Rs./ha)	BC ratio	Barrenness in maize (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
Zero tillage	RDF	124811	2.7	11.3	21.0	13.7	13.7	45.4
	SSNM	124633	2.6	15.2	20.4	13.6	12.0	41.7
	FFP	78317	1.7	21.5	20.2	11.9	11.2	35.5
Conventional tillage	RDF	97875	2.5	10.5	22.6	13.9	14.4	46.9
	SSNM	101501	2.3	15.3	21.7	12.0	14.6	46.9
	FFP	66771	1.5	22.0	21.2	10.7	10.7	40.4
Permanent bed	RDF	98518	2.1	9.3	21.4	13.7	14.2	46.2
	SSNM	98549	2.2	20.9	20.9	12.0	13.7	43.1
	FFP	50477	1.1	26.5	20.8	11.5	11.1	36.2
Location mean		93494.6	2.1	17.0	21.2	12.5	12.8	42.5
C.D.(5%) AiBj-AiBk		5224.2	0.3	2.6	2.3	2.0	2.2	2.6
C.D.(5%) AiBk-AjBk		4640.1	0.3	3.3	1.9	1.9	2.1	2.8
F(5%)		S	NS	S	NS	NS	NS	NS
Zero tillage		109254	2.4	16.0	20.6	13.1	12.3	40.8
Conventional tillage		88715	2.1	15.9	21.9	12.2	13.3	44.7
Permanent bed		82515	1.8	18.9	21.0	12.4	13.0	41.8
C.D. (5%) Ai-Aj		1865.4	0.1	2.5	0.3	1.0	1.2	1.9
C.V. (%) Error A		1.5	4.0	11.2	1.1	6.0	7.0	3.4
F (5%)		S	S	S	S	NS	NS	S
RDF		107068	2.4	10.4	21.7	13.8	14.1	46.2
SSNM		108228	2.4	17.1	21.0	12.5	13.4	43.9
FFP		65188	1.4	23.3	20.7	11.4	11.0	37.4
C.D. (5%) Bi-Bj		3016.2	0.2	1.5	1.3	1.1	1.3	1.5
C.V. (%) Error B		3.1	7.9	8.7	6.1	8.9	9.6	3.4
F (5%)		s	s	s	NS	s	s	s

Table 20: Nutrient management in maize-based cropping systems under different tillage practices in Delhi.

Tillage practices	Nutrient management	System productivity of MMCS (kg/ha)	System productivity of MCCS (kg/ha)	Maize equivalent yield of mustard (kg/ha)	Maize equivalent yield of Chickpea (kg/ha)	Gross returns from system MMCS (Ra./ha)	Net returns MMCS (Ra./ha)	BC ratio MMCS
Zero tillage	Control	4628	3904	2080	1171	57852	32753	1.30
	RDF	8647	6457	4480	2060	108083	77709	2.56
	SSNM	8691	5566	4506	1680	108642	78498	2.60
	50% RDF	7630	6051	4000	1578	95369	59910	1.69
Permanent bed	Control	4905	3822	2053	1196	61315	35216	1.35
	RDF	7654	5402	4054	2035	95670	64296	2.05
	SSNM	7717	5372	4213	1858	96460	65316	2.10
	50% RDF	7418	5125	3733	1654	92725	56266	1.54
Conventional tillage	Control	4144	3302	1574	1069	51800	24201	0.88
	RDF	8022	5514	4000	1985	100280	67406	2.05
	SSNM	7623	5470	3734	1756	95284	62640	1.92
	50% RDF	6735	4784	3386	1807	84182	46223	1.22
Location mean		6984.4	5064.2	3484.4	1654.0	87305.1	55869.4	1.77
C.D.(5%) AiBj-AiBk		1222.8	860.5	1011.9	347.6	15284.7	15284.7	0.46
C.D.(5%) AiBk-AjBk		1148.8	876.3	910.8	422.3	14359.5	14359.5	0.43
F(5%)		NS	NS	NS	NS	NS	NS	NS
Zero tillage		7399	5494	3767	1622	92487	62218	2.04
Permanent bed		6923	4930	3513	1686	86542	55273	1.76
Conventional tillage		6631	4768	3173	1654	82886	50117	1.52
C.D. (5%) Ai-Aj		457.7	472.5	255.7	301.8	5720.7	5720.7	0.17
C.V. (%) Error A		5.8	8.2	6.5	16.1	5.8	9.0	8.60
F (5%)		S	S	S	NS	S	S	S
Control		4559	3676	1902	1145	56989	30723	1.18
RDF		8108	5791	4178	2027	101344	69804	2.22
SSNM		8010	5469	4151	1765	100129	68818	2.21
50% RDF		7261	5320	3706	1679	90759	54133	1.48
C.D. (5%) Bi-Bj		706.0	496.8	584.2	200.7	8824.6	8824.6	0.27
C.V. (%) Error B		10.2	9.9	16.9	12.3	10.2	15.9	15.23
F (5%)		S	S	S	S	S	S	S

Treatment details:

A. Main plot: Tillage practices
T1: Zero-tillage
T2: Conventional tillage
T3: Permanent bed

B. Sub plot: Nutrient management (kg N+P_2O_5+ K_2O/ha)
N1: Control
N2: RDF
N3: SSNM based on nutrient expert
N4: 50% of recommended dose of fertilizers + 2.5 t crop residue

MMCS = maize-mustard cropping systems
MCCS= maize-chickpea cropping system

Table 21: Nutrient management in maize based rainfed cropping systems under different tillage practices in Chhindwara.

Tillage practices	Nutrient management	Density	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	100-seed weight (g)
Zero tillage	60:30:20	60x20 cm	3879	7611	75.2	71.9	181.7	51.7	55.3	34.8
		50x20 cm	3965	8066	90.5	91.4	179.3	51.0	55.7	34.7
	120:60:40	60x20 cm	6003	12842	76.4	77.5	185.7	50.3	55.0	35.9
		50x20 cm	6120	12981	93.9	90.2	189.3	49.7	55.3	35.3
	140:34:71	60x20 cm	6578	13678	77.2	76.9	192.3	48.3	55.3	36.3
		50x20 cm	6908	13939	92.2	88.6	192.7	47.3	55.7	35.5
Conventional tillage	60:30:20	60x20 cm	4362	9169	76.6	74.7	184.0	49.7	53.7	36.6
		50x20 cm	4409	9885	95.5	89.1	184.0	50.3	54.0	36.2
	120:60:40	60x20 cm	6084	13234	78.0	78.3	186.0	49.0	53.7	37.2
		50x20 cm	6747	13583	95.8	94.7	193.3	49.7	54.0	36.4
	140:34:71	60x20 cm	6756	14158	80.0	77.2	193.7	47.0	53.3	37.2
		50x20 cm	7244	14025	94.7	93.6	196.3	48.0	54.3	36.7
Permanent bed	60:30:20	60x20 cm	3823	7505	76.4	71.4	180.0	49.7	54.3	35.3
		50x20 cm	3851	7661	85.5	87.7	181.3	49.7	55.0	35.2
	120:60:40	60x20 cm	5953	12617	76.9	76.4	184.3	49.0	54.7	36.8
		50x20 cm	6234	12687	86.6	88.3	189.7	50.7	54.3	36.3
	140:34:71	60x20 cm	6381	13450	77.7	75.5	191.7	48.3	54.0	36.1
		50x20 cm	6386	13714	89.4	87.5	193.0	49.3	54.7	35.7
Mean of location			5649	11711	84.4	82.8	187.7	49.4	54.6	36.0
Zero tillage			5576	11519	84.2	82.7	186.8	49.7	55.4	35.4
Conventional tillage			5934	12342	86.8	84.6	189.6	48.9	53.8	36.7
Permanent bed			5438	11272	82.1	81.1	186.7	49.4	54.5	35.9
CD at 5%			290.6	434.1	2.7	NS	NS	0.3	0.4	0.8
CV (%)			5.6	4.0	3.4	4.9	3.0	0.6	0.8	2.5
60:30:20 (FFP)			4048	8316	83.3	81.0	181.7	50.3	54.7	35.5
120:60:40 (RDF)			6190	12991	84.6	84.2	188.1	49.7	54.5	36.3
140:34:71 (SSNM)			6709	13827	85.2	83.2	193.3	48.1	54.6	36.2
CD at 5%			202.8	612.6	NS	1.6	3.8	0.7	NS	0.6
CV (%)			4.9	7.2	2.7	2.7	2.8	1.9	1.2	2.4
60x20 cm 83,000/ha plant			5535	11585	77.2	75.5	186.6	49.2	54.4	36.2
50x20 cm 100,000/ha plant			5763	11838	91.6	90.1	188.8	49.5	54.8	35.8
CD at 5%			223.6	NS	1.4	2.0	NS	NS	NS	NS
CV (%)			6.9	6.1	2.8	4.1	2.4	1.2	1.3	2.4

Treatment details:

A. Main plot: Tillage practices
T1: Zero tillage
T2: Conventional tillage
T3: Permanent bed

B. Sub plot: Density (plants/ha)
D1: 60x20 cm (83,000)
D2: 50x20 cm (100,000)

C. Sub-sub plot: Nutrient management ($N:P_2O_5:K_2O$ kg/ha)
N1: 60:30:20 (FFP)
N2: 120:60:40 (RDF)
N3: SSNM based on nutrient expert (140:34:71)

Cont…

Tillage practices	Nutrient management	Density	Net returns (Rs./ha)	BC ratio	Barrenness in maize (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
Zero tillage	60:30:20	60x20 cm	41862	2.31	4.5	16.7	16.2	13.9	26.0
		50x20 cm	43280	2.36	5.8	16.7	16.2	13.1	25.7
	120:60:40	60x20 cm	73255	3.55	3.4	17.0	16.8	13.9	28.3
		50x20 cm	74768	3.59	4.0	16.0	16.8	13.9	27.3
	140:34:71	60x20 cm	81654	3.92	3.8	17.4	16.6	15.1	30.7
		50x20 cm	86176	4.10	3.9	17.5	16.0	14.1	26.3
Conventional tillage	60:30:20	60x20 cm	47442	2.30	3.1	18.6	16.8	14.5	28.7
		50x20 cm	48596	2.33	3.6	18.5	16.6	13.8	27.7
	120:60:40	60x20 cm	72233	3.12	2.8	19.7	16.5	15.1	31.3
		50x20 cm	81342	3.49	3.5	19.1	16.2	14.1	29.3
	140:34:71	60x20 cm	82033	3.52	2.0	20.6	16.6	16.1	31.7
		50x20 cm	88297	3.75	2.4	20.5	17.1	15.9	30.7
Permanent bed	60:30:20	60x20 cm	39007	1.94	4.4	16.5	16.5	14.1	27.0
		50x20 cm	39338	1.94	5.3	15.4	15.3	13.3	27.0
	120:60:40	60x20 cm	70355	3.11	3.9	18.5	15.8	15.1	30.0
		50x20 cm	74010	3.24	3.9	18.3	15.6	14.6	29.0
	140:34:71	60x20 cm	76765	3.36	2.8	19.2	16.1	15.9	31.0
		50x20 cm	76903	3.34	3.0	18.9	16.3	14.5	28.3
Mean of location			66518	3.07	3.7	18.1	16.3	14.5	28.7
Zero tillage			66832	3.31	4.2	16.9	16.5	14.0	27.4
Conventional tillage			69991	3.09	2.9	19.5	16.6	14.9	29.9
Permanent bed			62730	2.82	3.9	17.8	15.9	14.6	28.7
CD at 5%			4210.1	0.2	NS	1.0	NS	NS	NS
CV (%)			6.8	6.9	34.6	5.9	6.2	6.9	9.6
60:30:20 (FFP)			43254	2.20	4.4	17.1	16.3	13.8	27.0
120:60:40 (RDF)			74327	3.35	3.6	18.1	16.3	14.5	29.2
140:34:71 (SSNM)			81971	3.67	3.0	19.0	16.5	15.3	29.8
CD at 5%			2950.2	0.1	0.7	0.7	NS	0.8	2.2
CV (%)			6.1	6.0	27.7	5.0	3.6	7.9	10.4
60x20 cm 83,000/ha plant			64956	3.01	3.4	18.3	16.4	14.9	29.4
50x20 cm 100,000/ha plant			68079	3.13	3.9	17.9	16.2	14.1	27.9
CD at 5%			2895.6	NS	NS	NS	NS	0.5	1.3
CV (%)			7.6	7.7	29.1	4.0	7.0	6.1	8.0

Table 22: Effect of planting density and nutrient management practices on the performance of hybrids in *Kharif* season in Bajaura.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	100-seed weight (g)
K 25 Gold	Normal (60x20 cm)	RDF	8286	10828	80.3	75.0	180.0	53.0	55.0	30.7
		STCR	10598	13897	80.0	78.7	189.0	52.0	54.0	27.3
		SSNM	9689	12990	82.0	82.7	185.7	53.0	55.0	28.0
	High (60x15 cm)	RDF	9424	12446	96.7	89.0	187.7	53.0	55.0	28.0
		STCR	11135	14704	100.3	97.0	192.0	52.0	54.0	28.7
		SSNM	10429	14024	97.7	92.0	185.0	53.0	55.0	30.0
KH 121	Normal (60x20 cm)	RDF	11336	14921	80.3	78.0	190.7	53.0	55.0	31.3
		STCR	13353	17354	80.3	79.0	213.3	52.0	54.0	30.0
		SSNM	12132	16089	79.7	77.7	197.3	53.0	54.7	30.7
	High (60x15 cm)	RDF	11446	15323	98.3	93.3	195.0	52.7	54.7	27.3
		STCR	13966	17478	97.0	95.3	215.7	52.3	54.3	28.7
		SSNM	12349	16133	100.7	97.3	201.7	53.0	55.0	28.0
Mean of location			11178.4	14682.3	89.4	86.3	194.4	52.7	54.6	29.1
K 25 Gold			9927	13148	89.5	85.7	186.6	52.7	54.7	28.8
KH 121			12430	16216	89.4	86.8	202.3	52.7	54.6	29.3
CD at 5%			1434.9	1700.3	NS	NS	NS	0.0	NS	NS
CV (%)			9.0	8.1	8.3	12.2	10.6	0.0	0.3	12.0
Normal (60x20 cm)			10899	14347	80.4	78.5	192.7	52.7	54.6	29.7
High (60x15 cm)			11458	15018	98.4	94.0	196.2	52.7	54.7	28.4
CD at 5%			NS	NS	5.7	4.8	NS	0.0	NS	NS
CV (%)			6.3	7.6	6.9	6.0	6.4	0.0	0.3	5.0
RDF			10123	13380	88.9	83.8	188.3	52.9	54.9	29.3
STCR			12263	15858	89.4	87.5	202.5	52.1	54.1	28.7
SSNM			11150	14809	90.0	87.4	192.4	53.0	54.9	29.2
CD at 5%			510.0	943.6	NS	NS	6.7	0.3	0.3	NS
CV (%)			5.3	7.4	5.4	7.4	4.0	0.5	0.6	9.3

Treatment details:

A. Main plot: Hybrids
H1: K 25 Gold
H2: KH 121

B. Sub plot: Density
D1: Normal (60x20 cm)
D2: High (60x15 cm)

C. Sub-sub plot: Nutrient management ($N:P_2O_5:K_2O$ kg/ha)
N1: RDF (120:60:40
N2: STCR (277:188:150)
N3: SSNM based on nutrient expert (150:64:113)

Cont…

Hybrids	Density	Nutrient management	Net returns (Rs./ha)	BC ratio	Barrenness in maize (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
K 25 Gold	Normal (60x20 cm)	RDF	69382	2.79	6.7	15.2	14.1	13.3	34.0
		STCR	85826	2.64	3.6	15.2	14.1	13.7	34.3
		SSNM	85351	3.07	2.3	14.6	14.7	14.3	33.0
	High (60x15 cm)	RDF	83829	3.14	6.7	15.2	14.8	13.7	31.7
		STCR	92416	2.74	4.6	14.7	14.6	14.3	33.0
		SSNM	94558	3.26	5.8	14.6	14.7	14.0	33.0
KH 121	Normal (60x20 cm)	RDF	109257	3.82	4.6	14.5	15.2	14.7	34.3
		STCR	121656	3.32	2.6	14.6	15.6	16.0	34.7
		SSNM	117150	3.84	3.2	14.4	15.5	14.7	34.3
	High (60x15 cm)	RDF	110398	3.82	4.4	13.9	15.0	15.7	34.0
		STCR	128611	3.43	3.1	14.5	15.4	15.3	34.3
		SSNM	119289	3.85	3.7	14.3	15.3	15.3	34.0
Mean of location			101477.2	3.31	4.3	14.6	14.9	14.6	33.7
K 25 Gold			85227	2.94	5.0	14.9	14.5	13.9	33.2
KH 121			117727	3.68	3.6	14.4	15.3	15.3	34.3
CD at 5%			18573.0	0.5	NS	NS	NS	0.5	NS
CV (%)			12.8	9.7	85.6	4.2	4.7	2.3	5.6
Normal (60x20 cm)			98104	3.25	3.8	14.7	14.9	14.4	34.1
High (60x15 cm)			104850	3.37	4.7	14.5	15.0	14.7	33.3
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			9.1	5.7	44.9	3.3	2.9	6.0	3.9
RDF			93217	3.39	5.6	14.7	14.8	14.3	33.5
STCR			107128	3.03	3.5	14.7	14.9	14.8	34.1
SSNM			104087	3.50	3.8	14.5	15.1	14.6	33.6
CD at 5%			6802.8	0.2	NS	NS	NS	NS	NS
CV (%)			7.7	5.1	54.4	4.4	3.6	4.4	6.2

Table 23: Effect of planting density and nutrient management practices on the performance of hybrids in *Kharif* season in Gossaingaon.

Hybrids	Density	Nutrient management	Maize grain yield (kg/ha)	Maize stover yield (kg/ha)	Plants ('000/ha) maize	Plant height (cm) maize	Days 50% Silking	Barreness (%) in maize
PAC-712	60x20 cm	RDF	5033	5848	62.0	151.6	68.7	8.3
		STCR	4933	6040	60.0	152.9	67.7	6.5
		SSNM	5316	5737	70.0	163.7	67.0	4.0
	60x15 cm	RDF	6109	6490	91.7	158.6	69.0	4.8
		STCR	6464	6578	92.3	155.2	67.3	4.6
		SSNM	6670	6757	91.0	160.2	66.7	4.6
Bioseed-605	60x20 cm	RDF	5163	5240	64.7	169.7	66.3	6.3
		STCR	6137	5357	63.7	169.8	66.7	7.0
		SSNM	6013	5759	64.7	177.1	66.0	4.0
	60x15 cm	RDF	6643	6497	90.3	175.1	66.3	6.2
		STCR	6740	6880	95.0	169.6	66.3	5.9
		SSNM	7069	7238	94.7	171.5	66.0	3.3
Mean of location			6024.3	6201.7	78.3	164.6	67.0	5.5
PAC-712			5754	6242	77.8	157.0	67.7	5.5
Bioseed-605			6294	6162	78.8	172.1	66.3	5.5
CD at 5%			158.4	NS	NS	10.2	1.0	NS
CV (%)			1.8	5.3	1.1	4.3	1.1	72.7
60x20 cm			5433	5663	64.2	164.1	67.1	6.0
60x15 cm			6616	6740	92.5	165.0	66.9	4.9
CD at 5%			420.3	332.2	2.8	NS	NS	NS
CV (%)			7.5	5.8	3.9	6.3	0.9	28.1
RDF			5737	6019	77.2	163.8	67.6	6.4
STCR			6069	6214	77.8	161.9	67.0	6.0
SSNM			6267	6373	80.1	168.1	66.4	4.0
CD at 5%			249.4	NS	NS	NS	0.5	NS
CV (%)			4.8	5.2	4.4	4.3	0.9	48.1

Hybrids	Density	Nutrient management	Toria grain yield (kg/ha)	Plants ('000/ha) Toria	Plant height (cm) Toria	Net returns (Rs. /ha)	BC ratio
PAC-712	60x20 cm	RDF	655.0	254.0	66.2	37664	1.6
		STCR	667.3	271.0	68.1	36571	1.6
		SSNM	670.0	270.0	69.1	38411	1.6
	60x15 cm	RDF	655.3	265.7	65.0	50163	1.8
		STCR	649.7	270.7	69.3	52882	1.8
		SSNM	661.0	277.0	69.9	53782	1.8
Bioseed-605	60x20 cm	RDF	741.7	282.3	66.3	43687	1.7
		STCR	766.0	279.0	68.4	55044	1.9
		SSNM	776.7	273.7	69.7	53545	1.8
	60x15 cm	RDF	645.3	281.3	69.3	55436	1.9
		STCR	653.0	277.7	69.7	54428	1.9
		SSNM	673.3	273.7	69.7	57395	1.9
Mean of location			684.5	273.0	68.4	49084.1	1.8
PAC-712			659.7	268.1	67.9	44912	1.7
Bioseed-605			709.3	277.9	68.9	53256	1.8
CD at 5%			28.6	6.1	NS	3119.3	0.0
CV (%)			2.9	1.5	2.4	4.4	0.9
60x20 cm			712.8	271.7	68.0	44154	1.7
60x15 cm			656.3	274.3	68.8	54014	1.9
CD at 5%			11.1	NS	0.7	6205.1	0.1
CV (%)			1.8	2.3	1.0	13.7	4.9
RDF			674.3	270.8	66.7	46738	1.7
STCR			684.0	274.6	68.9	49731	1.8
SSNM			695.3	273.6	69.6	50783	1.8
CD at 5%			NS	NS	1.2	2464.3	NS
CV (%)			3.4	3.5	2.1	5.8	2.8

Table 24: Effect of planting density and nutrient management practices on the performance of hybrids in *Kharif* season in Imphal.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Days to 80% maturity
JKMH-502	83,000 (60x20 cm)	RDF	4183	10790	81.0	251.7	56.7	59.3	103.7
		STCR	5095	11983	82.6	262.0	56.7	58.7	104.7
		SSNM	5831	13514	82.6	262.3	55.0	57.0	105.0
	110,000 (60x15 cm)	RDF	5743	13284	108.0	253.7	56.7	59.7	103.3
		STCR	6135	14259	108.8	273.9	55.3	57.7	104.0
		SSNM	6131	14915	109.2	270.3	56.0	58.0	104.7
GS-802	83,000 (60x20 cm)	RDF	3561	10710	81.8	258.7	51.3	53.3	99.3
		STCR	4125	11379	84.5	249.5	52.3	54.3	100.3
		SSNM	5004	12112	85.6	241.8	52.0	54.7	100.7
	110,000 (60x15 cm)	RDF	3952	10444	104.6	237.5	53.0	55.3	100.7
		STCR	4372	11047	108.8	249.5	51.7	54.3	100.6
		SSNM	4954	11215	107.6	246.8	52.3	54.7	101.3
Mean of location			4924.0	12137.6	95.4	254.8	54.1	56.4	102.4
JKMH-502			5520	13124	95.4	262.3	56.1	58.4	104.2
GS-802			4328	11151	95.5	247.3	52.1	54.4	100.5
CD at 5%			886.4	1630.8	NS	NS	0.2	1.3	0.6
CV (%)			12.6	9.4	4.6	7.8	0.3	1.6	0.4
83,000 (60x20 cm)			4633	11748	83.0	254.3	54.0	56.2	102.3
110,000 (60x15 cm)			5215	12527	107.8	255.3	54.2	56.6	102.4
CD at 5%			445.5	NS	4.7	NS	NS	NS	NS
CV (%)			9.8	8.1	5.3	6.9	1.0	1.2	0.4
RDF			4360	11307	93.8	250.4	54.4	56.9	101.8
STCR			4932	12167	96.2	258.7	54.0	56.3	102.4
SSNM			5480	12939	96.3	255.3	53.8	56.1	102.9
CD at 5%			416.0	782.4	NS	NS	NS	NS	0.5
CV (%)			9.8	7.4	4.4	4.6	1.3	1.4	0.5

Treatment details:

A. Main plot: Hybrids
H1: JKMH-502
H2: GS-802

B. Sub plot: Density
D1: 83,000 (60x20 cm)
D2: 110,000 (60x15 cm)

C. Sub-sub plot: Nutrient management (N:P_2O_5:K_2O kg/ha)
N1: RDF (120:40:50)
N2: STCR (160:50:60)
N3: SSNM (200:60:80)

Cont…

Hybrids	Density	Nutrient management	100-seed weight (g)	Shelling (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row	Grains/cob
JKMH-502	83,000 (60x20 cm)	RDF	31.5	75.3	16.9	13.1	13.9	30.1	401.5
		STCR	30.9	67.0	17.5	13.3	14.3	29.8	411.5
		SSNM	32.5	75.7	18.3	13.6	14.5	32.8	408.5
	110,000 (60x15 cm)	RDF	30.7	75.9	16.3	12.7	12.7	27.3	354.7
		STCR	29.9	72.7	16.5	13.6	13.9	29.0	371.6
		SSNM	30.0	74.3	16.4	13.3	13.7	28.7	429.5
GS-802	83,000 (60x20 cm)	RDF	29.1	75.3	15.6	13.6	13.1	26.1	372.7
		STCR	30.4	75.7	16.1	13.4	13.6	26.7	372.9
		SSNM	29.0	77.2	16.5	13.9	14.3	27.4	429.5
	110,000 (60x15 cm)	RDF	28.2	73.6	15.0	13.2	13.1	26.7	323.2
		STCR	29.0	74.6	15.9	13.2	13.7	27.4	369.0
		SSNM	29.4	75.3	16.3	13.6	14.1	27.9	362.9
Mean of location			30.0	74.4	16.4	13.4	13.7	28.3	383.9
JKMH-502			30.9	73.5	17.0	13.3	13.8	29.6	396.2
GS-802			29.2	75.3	15.9	13.5	13.7	27.0	371.7
CD at 5%			1.2	NS	NS	NS	NS	NS	NS
CV (%)			2.7	6.6	6.8	3.5	9.9	13.1	12.9
83,000 (60x20 cm)			30.5	74.4	16.8	13.5	13.9	28.8	399.4
110,000 (60x15 cm)			29.5	74.4	16.1	13.3	13.5	27.8	368.5
CD at 5%			NS	NS	NS	NS	NS	NS	26.8
CV (%)			4.1	5.7	7.3	4.8	3.6	6.1	7.5
RDF			29.9	75.0	16.0	13.2	13.2	27.5	363.0
STCR			30.1	72.5	16.5	13.4	13.9	28.3	381.3
SSNM			30.2	75.6	16.9	13.6	14.2	29.2	407.6
CD at 5%			NS	NS	NS	0.3	0.3	0.3	31.5
CV (%)			4.5	5.9	6.9	2.9	6.7	8.4	9.5

Table 25: Effect of planting density and nutrient management practices on the performance of hybrids in *Kharif* season in Srinagar.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	100-seed weight (g)
Kanchan 101	60x20 cm (83000)	RDF	6910	13197	81.5	95.5	251.0	88.7	92.3	25.4
		STCR	7072	14033	82.1	97.0	247.7	87.3	92.0	25.5
		SSNM	7268	13077	81.8	90.9	251.7	88.0	93.3	25.4
	60x15 cm (111000)	RDF	5967	14892	110.4	87.5	253.0	86.0	91.0	25.2
		STCR	6052	15320	110.7	85.0	250.7	84.3	88.7	25.0
		SSNM	6419	15968	109.7	88.7	254.7	86.3	90.3	25.3
Bio 605	60x20 cm (83000)	RDF	7344	13968	81.3	97.5	262.0	86.7	91.7	24.9
		STCR	7604	13401	81.9	99.0	264.7	86.0	90.3	25.3
		SSNM	7976	12753	81.8	99.7	266.0	84.3	89.3	25.0
	60x15 cm (111000)	RDF	6510	15030	110.5	90.8	267.0	84.0	89.0	25.5
		STCR	6756	16272	110.4	91.0	268.0	83.0	87.3	25.5
		SSNM	6972	16804	110.1	91.9	262.3	84.7	88.0	25.3
Mean of location			6904.1	14559.6	96.0	92.9	258.2	85.8	90.3	25.3
Kanchan 101			6615	14414	96.1	90.8	251.4	86.8	91.3	25.3
Bio 605			7194	14705	96.0	95.0	265.0	84.8	89.3	25.2
CD at 5%			463.8	NS	NS	1.8	1.0	NS	NS	NS
CV (%)			4.7	1.9	0.7	1.4	0.3	2.9	1.8	1.8
60x20 cm (83000)			7362	13405	81.7	96.6	257.2	86.8	91.5	25.2
60x15 cm (111000)			6446	15714	110.3	89.2	259.3	84.7	89.1	25.3
CD at 5%			182.8	209.1	1.2	1.3	NS	0.6	1.3	NS
CV (%)			2.9	1.6	1.3	1.5	1.9	0.7	1.6	1.8
RDF			6683	14272	95.9	92.8	258.3	86.3	91.0	25.2
STCR			6871	14757	96.3	93.0	257.8	85.2	89.6	25.3
SSNM			7159	14651	95.9	92.8	258.7	85.8	90.3	25.3
CD at 5%			122.5	306.7	NS	NS	NS	NS	NS	NS
CV (%)			2.1	2.4	0.8	1.0	2.6	1.5	1.5	2.8

Cont…

Hybrids	Density	Nutrient management	Net returns (Rs./ha)	BC ratio	Barrenness in maize (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
Kanchan 101	60x20 cm (83000)	RDF	141202	1.9	11.0	18.5	12.9	12.2	38.4
		STCR	143860	2.0	11.5	17.8	11.9	12.5	41.0
		SSNM	148576	1.8	11.5	20.1	11.1	13.0	43.3
	60x15 cm (111000)	RDF	120297	1.5	21.6	19.0	12.9	11.6	39.4
		STCR	123254	1.5	21.9	19.5	10.7	10.4	42.2
		SSNM	128833	1.7	22.2	21.2	11.9	12.7	45.3
Bio 605	60x20 cm (83000)	RDF	151477	2.2	9.1	21.0	13.7	13.5	47.1
		STCR	155589	2.2	9.9	21.7	13.2	14.2	48.3
		SSNM	161877	2.4	11.5	24.0	11.4	13.0	50.2
	60x15 cm (111000)	RDF	134802	1.8	22.8	20.1	13.4	11.3	40.3
		STCR	138023	1.9	23.9	20.9	12.9	13.7	41.3
		SSNM	141759	1.9	22.6	20.7	12.0	13.0	46.1
Mean of location			140795.8	1.9	16.6	20.4	12.3	12.6	43.6
Kanchan 101			134337	1.7	16.6	19.4	11.9	12.1	41.6
Bio 605			147254	2.1	16.6	21.4	12.8	13.1	45.5
CD at 5%			8103.9	NS	NS	0.7	NS	NS	3.1
CV (%)			4.0	16.5	9.4	2.2	6.2	7.4	5.0
60x20 cm (83000)			150430	2.1	10.8	20.5	12.4	13.1	44.7
60x15 cm (111000)			131161	1.7	22.5	20.2	12.3	12.1	42.4
CD at 5%			2530.5	0.2	0.9	NS	NS	NS	1.3
CV (%)			1.9	12.3	5.7	5.5	4.1	9.3	3.1
RDF			136945	1.8	16.2	19.7	13.2	12.2	41.3
STCR			140181	1.9	16.8	20.0	12.2	12.7	43.2
SSNM			145261	1.9	16.9	21.5	11.6	12.9	46.2
CD at 5%			1423.3	NS	NS	NS	1.0	NS	2.1
CV (%)			1.2	9.0	7.8	9.5	8.9	9.4	5.6

Table 26: Effect of planting density and nutrient management practices on the performance of hybrids in Kharif season in Udhampur.

Density	Nutrient management	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	Green fodder yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Net returns (Rs./ha)	BC ratio
60x20 cm	RDF	Maharaja 7	4502	5343	6583	79.0	79.3	195.4	49.0	53.7	47465	1.65
		UDMH-101	4692	6078	7535	81.7	87.0	210.0	55.3	60.0	53381	1.94
		UDMH-115	4392	5524	6859	82.0	85.0	199.4	55.0	59.0	47582	1.81
	SSNM	Maharaja 7	5397	7449	9282	81.3	80.3	206.3	50.0	53.7	64045	2.13
		UDMH-101	5475	7333	9003	82.0	81.0	216.2	55.7	60.7	65713	2.29
		UDMH-115	5117	6876	8509	79.0	81.0	215.7	55.0	59.3	61429	2.04
60x15 cm	RDF	Maharaja 7	4729	5155	6837	98.7	97.7	200.8	49.3	54.0	48827	1.64
		UDMH-101	4916	5669	7509	100.7	108.3	200.2	55.3	60.3	54104	1.89
		UDMH-115	5091	6092	8248	104.7	109.7	204.0	55.7	61.0	58299	2.04
	SSNM	Maharaja 7	5665	7082	9554	99.7	99.7	211.0	50.0	54.7	64956	2.08
		UDMH-101	5473	7662	10295	107.7	106.7	211.7	55.0	59.7	65282	2.18
		UDMH-115	5341	6944	9386	97.7	99.7	216.2	55.3	60.3	62894	2.02
Mean of location			5065.9	6433.8	8299.9	91.2	92.9	207.2	53.4	58.0	57831.2	1.98
60x20 (cm)			4929	6434	7962	80.8	82.3	207.2	53.3	57.7	56602	1.98
60x15 (cm)			5203	6434	8638	101.5	103.6	207.3	53.4	58.3	59060	1.98
CD at 5%			NS	NS	644.6	2.6	2.2	NS	NS	NS	NS	NS
CV (%)			5.4	5.5	5.4	2.0	1.6	2.2	0.6	3.5	3.4	0.8
SSNM			4720	5643	7262	91.1	94.5	201.6	53.3	58.0	51609	1.83
RDF			5412	7224	9338	91.2	91.4	212.8	53.5	58.1	64053	2.12
CD at 5%			165.1	207.0	277.7	NS	1.6	5.8	NS	NS	1824.4	0.1
CV (%)			3.5	3.5	3.6	2.2	1.9	3.0	1.5	2.5	3.4	3.5
Maharaja 7			5073	6257	8064	89.7	89.3	203.4	49.6	54.0	56323	1.87
UDMH-101			5139	6685	8585	93.0	95.8	209.5	55.3	60.2	59620	2.07
UDMH-115			4985	6359	8250	90.8	93.8	208.8	55.3	59.9	57551	1.98
CD at 5%			NS	192.2	304.8	1.7	1.6	NS	0.6	0.8	2158.8	0.1
CV (%)			3.3	3.5	4.2	2.1	2.0	4.2	1.2	1.7	4.3	4.7

Treatment details:

A. Main plot: Density

D_1 60x20 cm

D_2 60x15 cm

B. Sub-sub plot: Nutrient management ($N:P_2O_5:K_2O$ kg/ha)

N_1 SSNM (120:60:40)

N_2 RDF (60:40:20)

C. Sub-sub plot: Genotypes

G_1 Maharaja 7 (EM)

G_2 UDMH-101 (MM)

G_3 UDMH-115 (MM)

Table 27: Effect of planting density and nutrient management practices on the performance of hybrids in *Kharif* season in Karnal.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Days to maturity	Net returns (Rs./ha)	BC ratio
DKC 9106	67x20 cm	RDF	7073	8495	74.2	85.0	191.0	55.3	57.3	84.0	61219	2.14
		STCR	7271	8731	74.3	87.3	198.3	54.3	56.3	87.7	61971	2.14
		SSNM	7143	8578	74.0	85.8	194.7	54.0	56.0	86.3	60748	2.12
	67x15 cm	RDF	5461	6893	97.9	68.9	201.0	54.7	56.7	85.0	36506	1.68
		STCR	5965	7534	98.2	75.3	205.3	53.3	55.3	88.0	38631	1.72
		SSNM	5510	6956	98.7	69.6	200.3	54.0	56.0	87.3	34975	1.65
DKS 9125	67x20 cm	RDF	7327	8800	73.5	88.0	197.0	55.3	57.3	83.7	63426	2.18
		STCR	7645	9180	73.4	91.8	204.0	54.7	56.7	86.0	64164	2.18
		SSNM	7461	8960	73.5	89.6	200.0	54.3	56.3	85.3	59330	2.09
	67x15 cm	RDF	6337	8002	97.1	80.0	202.3	57.0	59.0	87.0	45888	1.86
		STCR	6537	8251	98.4	82.5	208.7	56.3	58.3	89.0	51800	1.96
		SSNM	6213	7841	97.6	78.4	205.0	55.3	57.3	86.0	47817	1.88
Mean of location			6661.7	8185.2	85.9	81.9	200.6	54.9	56.9	86.3	52206.1	1.97
DKC 9106			6404	7865	86.2	78.6	198.4	54.3	56.3	86.4	49008	1.91
DKC 9125			6920	8506	85.6	85.1	202.8	55.5	57.5	86.2	55404	2.03
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			8.3	8.4	1.3	8.4	2.9	2.4	2.3	0.2	18.1	8.8
67x20 cm			7320	8791	73.8	87.9	197.5	54.7	56.7	85.5	61810	2.14
67x15 cm			6004	7580	98.0	75.8	203.8	55.1	57.1	87.1	42603	1.79
CD at 5%			329.6	397.0	0.4	4.0	4.2	0.2	0.2	1.4	1208.7	0.0
CV (%)			5.3	5.2	0.5	5.2	2.2	0.4	0.4	1.8	2.5	1.2
RDF			6549	8048	85.7	80.5	197.8	55.6	57.6	84.9	51760	1.97
STCR			6854	8424	86.0	84.2	204.1	54.7	56.7	87.7	54141	2.00
SSNM			6581	8084	86.0	80.8	200.0	54.4	56.4	86.3	50717	1.93
CD at 5%			NS	324.6	NS	3.3	4.1	0.8	0.8	1.4	2542.0	0.1
CV (%)			4.6	4.6	0.9	4.6	2.3	1.6	1.6	1.8	5.6	2.7

Treatment details:

A. Main plot: Hybrids
H1: DKC 9106
H2: DKC 9125

B. Sub plot: Density
D1: 67x20 cm
D2: 67x15 cm

C. Sub-sub plot: Nutrient management ($N:P_2O_5:K_2O$ kg/ha)
N1: RDF (150:60:60)
N2: STCR (168:62:65)
N3: SSNM based on nutrient expert (158:65:70)

Table 28: Effect of planting density and nutrient management practices on the performance of hybrids in *Kharif* season in Ludhiana.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha) 25 DAS	Plants ('000/ ha) AH	Cobs ('000/ ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	Net returns (Rs/ha)	BC ratio
PMH 1	67.5x20 cm	RDF	5498	7724	72.4	71.6	72.4	194.3	57.3	59.3	37113	0.85
		STCR	5774	8198	72.8	71.6	74.5	205.3	56.7	58.7	41990	0.98
		SSNM	5988	8440	72.4	71.6	72.0	208.7	55.7	57.7	43617	0.99
	67.5x15 cm	RDF	5568	7947	96.7	95.1	93.8	200.7	57.3	60.0	37728	0.86
		STCR	6140	8914	97.9	96.3	93.8	202.3	58.0	61.0	47025	1.09
		SSNM	6420	9263	97.1	96.7	95.9	214.3	54.7	57.3	49631	1.11
DKC 9125	67.5x20 cm	RDF	5844	8383	72.8	72.8	72.0	188.0	57.0	59.0	42352	0.97
		STCR	6021	8675	72.0	72.0	74.9	190.7	56.7	58.7	45739	1.07
		SSNM	6058	8815	73.7	72.4	74.9	197.7	55.7	57.7	44918	1.02
	67.5x15 cm	RDF	6132	8794	97.1	95.9	95.9	196.0	57.7	60.7	46046	1.05
		STCR	6457	9354	97.1	96.3	97.1	198.0	55.3	58.0	51664	1.19
		SSNM	6646	9695	97.9	96.7	97.5	201.7	55.7	58.3	53062	1.19
Mean of location			6045	8683	85.0	84.1	84.6	199.8	56.5	58.9	45074	1.03
PMH 1			5898	8414	84.9	83.8	83.7	204.3	56.6	59.0	42851	0.98
DKC 9125			6193	8953	85.1	84.4	85.4	195.3	56.3	58.7	47297	1.08
CD at 5%			NS	NS	NS	NS	NS	2.7	NS	NS	NS	NS
CV (%)			11.5	11.5	2.1	2.2	5.9	0.9	0.6	0.7	22.7	22.5
67.5x20 cm			5864	8372	72.7	72.0	73.5	197.4	56.5	58.5	42621	0.98
67.5x15 cm			6227	8995	97.3	96.2	95.7	202.2	56.4	59.2	47526	1.08
CD at 5%			335.8	477.0	1.2	1.0	2.4	2.9	NS	NS	NS	NS
CV (%)			6.0	5.9	1.5	1.2	3.1	1.6	2.2	1.7	11.8	11.8
RDF			5760	8212	84.8	83.8	83.5	194.8	57.3	59.8	40810	0.93
STCR			6098	8785	85.0	84.1	85.1	199.1	56.7	59.1	46604	1.08
SSNM			6278	9053	85.3	84.4	85.1	205.6	55.4	57.8	47807	1.08
CD at 5%			233.6	329.8	NS	NS	1.1	8.3	NS	1.5	3424.1	0.1
CV (%)			4.5	4.4	1.3	1.4	1.5	4.8	3.4	3.0	8.8	8.8

Treatment details:

A. Main plot: Hybrids

G1: PMH 1

G2: DKC 9125

B. Sub plot: Density

D1: 67.5x20 cm

D2: 67.5x15 cm

C. Sub-sub plot: Nutrient management ($N:P_2O_5:K_2O$ kg/ha)

N1: RDF

N2: STCR

N3: SSNM

Table 29: Effect of planting density and nutrient management practices on the performance of hybrids in *Kharif* season in Pantnagar.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling
4212 (Rasi seeds)	67.5x20 cm	RDF	4708	8724	64.6	60.9	155.8	51.7
		STCR	5029	9012	63.4	60.5	166.0	51.7
		SSNM	4543	8930	64.6	63.0	154.9	51.7
	67.5x15 cm	RDF	5358	9132	86.2	82.7	157.8	51.3
		STCR	5695	9367	84.7	82.3	168.0	51.7
		SSNM	5550	9210	86.2	82.7	158.0	51.0
P 3396 (Pioneer)	67.5x20 cm	RDF	4897	9218	65.0	62.6	159.1	48.0
		STCR	5276	9918	65.4	62.1	168.9	48.3
		SSNM	4856	9259	65.0	62.1	161.5	48.3
	67.5x15 cm	RDF	5452	9445	85.0	80.3	161.4	48.7
		STCR	5812	9720	85.0	81.9	171.3	47.7
		SSNM	5209	9524	87.0	82.7	160.8	48.0
Mean of location			5198.6	9288.3	75.2	72.0	162.0	49.8
4212 (Rasi seeds)			5147	9063	74.9	72.0	160.1	51.5
P 3396 (Pioneer))			5250	9514	75.4	72.0	163.8	48.2
CD at 5%			NS	364.8	NS	NS	3.6	1.1
CV (%)			9.1	2.7	6.0	8.7	1.5	1.5
67.5x20 cm			4885	9177	64.7	61.9	161.0	49.9
67.5x15 cm			5512	9400	85.7	82.1	162.9	49.7
CD at 5%			579.4	NS	2.8	3.1	NS	NS
CV (%)			12.0	4.0	4.1	4.6	2.8	2.5
RDF			5104	9130	75.2	71.6	158.5	49.9
STCR			5453	9504	74.6	71.7	168.6	49.8
SSNM			5039	9231	75.7	72.6	158.8	49.8
CD at 5%			281.1	NS	NS	NS	4.9	NS
CV (%)			6.2	5.2	3.4	6.0	3.5	1.3

Treatment details:

A. Main plot: Hybrid
H1: 4212 (Rasi seeds)
H2: P 3396 (Pioneer)

B. Sub plot: Density
D1: 67.5x20 cm
D2: 67.5x15 cm

C. Sub-sub plot: Nutrient management ($N:P_2O_5:K_2O$ kg/ha)
N1: 100% RDF (120:60:40)
N2: STCR (220:100:91)
N3: SSNM (120:30:46)

Cont…

Hybrids	Density	Nutrient management	Days 50% silking	100-seed weight (g)	Net returns (Rs./ha)	BC ratio	Cob length (cm)	Cob girth (cm)
4212 (Rasi seeds)	67.5x20 cm	RDF	54.7	24.4	37332	1.39	14.2	12.3
		STCR	54.3	24.7	35739	1.09	15.0	12.9
		SSNM	54.7	24.6	36052	1.39	14.2	12.4
	67.5x15 cm	RDF	54.3	24.4	45802	1.68	13.9	11.9
		STCR	53.7	24.4	44429	1.33	14.7	12.7
		SSNM	54.0	24.3	49390	1.87	14.0	12.1
P 3396 (Pioneer)	67.5x20 cm	RDF	50.7	25.7	39916	1.48	14.8	13.0
		STCR	50.3	25.5	39110	1.19	15.0	13.6
		SSNM	50.3	25.7	40321	1.55	14.9	13.3
	67.5x15 cm	RDF	51.0	25.8	47086	1.72	14.7	12.7
		STCR	50.3	25.4	46033	1.38	14.9	13.1
		SSNM	50.7	25.9	44736	1.70	14.7	12.3
Mean of location			52.4	25.1	42162.0	1.48	14.6	12.7
4212 (Rasi seeds)			54.3	24.5	41457	1.46	14.3	12.4
P 3396 (Pioneer))			50.6	25.6	42867	1.50	14.8	13.0
CD at 5%			1.2	NS	NS	NS	NS	NS
CV (%)			1.6	6.0	15.4	14.5	6.0	5.1
67.5x20 cm			52.5	25.1	38078	1.35	14.7	12.9
67.5x15 cm			52.3	25.0	46246	1.61	14.5	12.5
CD at 5%			NS	NS	7908.1	NS	NS	NS
CV (%)			3.0	5.5	20.3	20.3	2.6	5.7
RDF			52.7	25.1	42534	1.57	14.4	12.5
STCR			52.2	25.0	41328	1.25	14.9	13.1
STCR			52.4	25.1	42625	1.63	14.5	12.5
CD at 5%			NS	NS	NS	0.1	0.3	0.5
CV (%)			1.1	7.0	10.5	10.1	2.7	4.8

Cont…

Hybrids	Density	Nutrient management	N uptake (kg/ha)		P uptake (kg/ha)		K uptake (kg/ha)		Total uptake (kg/ha) (Grain + stover)		
			Grain	Stover	Grain	Stover	Grain	Stover	N	P	K
4212 (Rasi seeds)	67.5x20 cm	RDF	51.6	23.7	13.8	10.1	18.9	76.6	75.3	23.9	95.5
		STCR	59.7	34.5	16.4	12.6	23.0	90.3	94.2	29.0	113.3
		SSNM	49.5	25.2	13.5	11.0	17.6	80.5	74.7	24.6	98.1
	67.5x15 cm	RDF	57.7	24.4	15.6	10.6	21.1	80.8	82.0	26.2	101.9
		STCR	67.0	34.1	17.2	13.0	25.8	90.8	101.1	30.2	116.6
		SSNM	61.2	25.2	16.7	10.6	22.2	80.9	86.4	27.3	103.0
P 3396 (Pioneer)	67.5x20 cm	RDF	56.1	26.7	15.1	11.7	19.6	80.6	82.8	26.7	100.3
		STCR	67.0	44.0	16.7	13.9	24.1	95.7	111.0	30.6	119.8
		SSNM	56.2	25.7	14.9	12.1	19.4	82.7	81.9	27.0	102.1
	67.5x15 cm	RDF	60.9	29.9	16.8	11.4	21.8	85.1	90.8	28.2	106.9
		STCR	69.2	41.0	18.6	13.7	26.3	96.9	110.1	32.3	123.2
		SSNM	55.7	28.5	15.7	11.9	20.6	85.5	84.2	27.7	106.1
Mean of location			59.3	30.2	15.9	11.9	21.7	85.5	89.5	27.8	107.2
4212 (Rasi seeds)			57.8	27.8	15.5	11.3	21.4	83.3	85.6	26.9	104.7
P 3396 (Pioneer))			60.8	32.6	16.3	12.4	22.0	87.8	93.5	28.7	109.7
CD at 5%			4.2	NS	NS	0.2	NS	2.1	NS	1.8	3.6
CV (%)			5.2	22.5	8.3	1.0	5.9	1.7	10.5	4.4	2.3
67.5x20 cm			56.7	30.0	15.1	11.9	20.5	84.4	86.6	27.0	104.9
67.5x15 cm			61.9	30.5	16.8	11.9	23.0	86.7	92.4	28.6	109.6
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			13.9	15.6	11.9	10.1	15.2	5.3	10.4	10.6	7.2
RDF			56.6	26.1	15.3	11.0	20.4	80.8	82.7	26.3	101.1
STCR			65.7	38.4	17.2	13.3	24.8	93.4	104.1	30.5	118.2
STCR			55.6	26.2	15.2	11.4	19.9	82.4	81.8	26.6	102.3
CD at 5%			NS	5.1	1.4	1.4	1.6	4.4	6.6	2.2	4.4
CV (%)			8.1	19.4	9.8	13.1	8.5	5.9	8.5	9.0	4.7

Table 30: Effect of planting density and nutrient management practices on the performance of hybrids in *Kharif* season in Ambikapur.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking
Bio 9637	60x20 cm	RDF	6477	9977	77.0	74.0	225.1	52.3	54.3
		STCR	7054	11242	76.3	75.7	225.9	51.7	53.7
		SSNM	7918	12589	77.0	75.8	224.0	52.7	54.7
	50x20 cm	RDF	5629	8521	94.2	91.8	232.6	52.0	54.0
		STCR	5940	9444	94.3	91.8	241.3	52.3	54.3
		SSNM	5957	9471	94.1	92.2	249.2	52.3	54.3
Bio 9682	60x20 cm	RDF	5347	8197	76.4	74.4	214.4	51.7	53.7
		STCR	5934	9434	77.3	76.0	218.3	52.0	54.0
		SSNM	6167	9806	77.5	75.6	223.1	52.7	54.7
	50x20 cm	RDF	4903	7553	93.5	91.3	216.1	52.0	54.0
		STCR	5578	8869	93.4	90.4	230.5	52.0	54.0
		SSNM	5708	9075	93.3	91.3	233.2	51.3	53.3
Mean of location			6050.9	9515.0	85.4	83.4	227.8	52.1	54.1
Bio 9637			6496	10207	85.5	83.6	233.0	52.2	54.2
Bio 9682			5606	8823	85.2	83.1	222.6	51.9	53.9
CD at 5%			645.5	1047.1	NS	NS	NS	0.2	0.2
CV (%)			7.4	7.7	2.3	2.6	7.3	0.3	0.3
60x20 cm			6483	10208	76.9	75.3	221.8	52.2	54.2
50x20 cm			5619	8822	93.8	91.5	233.8	52.0	54.0
CD at 5%			808.5	1297.8	1.8	2.1	NS	NS	NS
CV (%)			14.4	14.7	2.2	2.7	5.9	2.8	2.7
100% RDF			5589	8562	85.3	82.9	222.1	52.0	54.0
STCR			6126	9747	85.3	83.5	229.0	52.0	54.0
SSNM			6437	10235	85.5	83.7	232.4	52.3	54.3
CD at 5%			509.6	805.4	NS	NS	7.5	NS	NS
CV (%)			9.7	9.8	1.8	1.7	3.8	2.6	2.5

Treatment details:

A. Main plot: Hybrids
H1: Bio 9637
H2: Bio 9682

B. Sub plot: Density
D1: 60x20 cm
D2: 50x20 cm

C. Sub-sub plot: Nutrient management ($N:P_2O_5:K_2O$ kg/ha)
N1: 100% RDF (150:60:40)
N2: STCR based (165:75:81)
N3: SSNM based (170:67:86)

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Hybrids	Density	Nutrient management	100-seed weight (g)	Barrenness in maize (%)	Cob length (cm)	Cob girth (cm)	Grain rows/ cob	Grains/ row	Net returns (Rs./ha)	BC ratio
Bio 9637	60x20 cm	RDF	32.5	3.8	16.9	13.1	12.9	34.8	61862	2.35
		STCR	35.3	0.8	17.3	14.2	14.6	38.2	68145	2.44
		SSNM	34.7	1.5	18.0	14.7	15.1	39.7	79051	2.74
	50x20 cm	RDF	31.4	2.5	16.1	12.3	12.0	33.1	50279	1.91
		STCR	34.3	2.7	16.8	13.2	13.7	37.4	53039	1.90
		SSNM	34.1	2.0	17.6	13.8	14.3	38.9	52340	1.82
Bio 9682	60x20 cm	RDF	29.7	2.6	16.4	12.8	12.7	34.0	46419	1.76
		STCR	34.1	1.7	17.0	14.0	14.3	36.8	52854	1.89
		SSNM	35.9	2.5	17.6	14.4	14.9	38.1	55148	1.91
	50x20 cm	RDF	31.3	2.4	15.8	11.9	11.9	32.1	40301	1.53
		STCR	33.0	3.2	16.6	13.1	13.5	36.5	48000	1.72
		SSNM	33.6	2.1	17.3	13.5	14.1	38.0	48871	1.70
Mean of location			33.3	2.3	16.9	13.4	13.7	36.5	54692.4	1.97
Bio 9637			33.7	2.2	17.1	13.6	13.8	37.0	60786	2.19
Bio 9682			33.0	2.4	16.8	13.3	13.6	35.9	48599	1.75
CD at 5%			NS	NS	NS	NS	NS	0.6	8805.8	0.30
CV (%)			1.7	21.3	2.6	2.5	2.5	1.2	11.2	10.48
60x20 cm			33.7	2.2	17.2	13.9	14.1	37.0	60580	2.19
50x20 cm			33.0	2.5	16.7	13.0	13.3	36.0	48805	1.76
CD at 5%			NS	NS	0.4	0.6	NS	0.7	10992.1	0.39
CV (%)			5.1	51.2	2.4	5.1	7.4	2.2	21.7	21.48
100% RDF			31.2	2.9	16.3	12.5	12.4	33.5	49715	1.89
STCR			34.2	2.1	16.9	13.6	14.0	37.3	55510	1.99
SSNM			34.6	2.0	17.6	14.1	14.6	38.7	58853	2.04
CD at 5%			1.0	NS	0.7	0.5	0.4	1.2	6929.4	NS
CV (%)			3.4	37.8	4.7	4.4	3.4	3.7	14.6	14.7

Table 31: Effect of planting density and nutrient management practices on the performance of hybrid maize in *Kharif* season in Bahraich.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Cobs yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha) at 25 DAS	Cobs ('000/ha)	Plant height (cm)	Days to 50% silking	Days to maturity
DHM-849	60x20 (cm)	120:60:60	4524	5776	5133	82.9	82.8	189.3	50.3	106.0
		200:60:60	5542	6930	6182	82.9	82.8	194.3	47.0	107.7
		245:60:85	6021	7433	6710	82.9	82.8	196.0	45.3	108.3
	50x20 (cm)	120:60:60	4344	5430	5043	99.9	99.8	188.0	48.3	105.7
		200:60:60	5177	6392	5727	99.9	99.8	193.0	47.0	107.7
		245:60:85	5648	6973	6267	99.9	99.8	194.7	45.7	108.0
DHM-1107	60x20 (cm)	120:60:60	4719	5998	5277	86.3	82.8	197.7	50.7	107.3
		200:60:60	5663	7053	6337	82.9	82.8	200.0	48.7	106.0
		245:60:85	6025	7470	6818	83.0	82.8	202.0	48.0	105.0
	50x20 (cm)	120:60:60	4553	5645	5180	99.9	99.8	197.0	51.7	107.3
		200:60:60	5483	6767	6162	100.0	99.8	197.3	50.0	106.0
		245:60:85	5804	7195	6607	99.9	99.8	199.3	48.7	105.3
Mean of location			5291.9	6588.5	5953.5	91.7	91.3	195.7	48.4	106.7
DHM-849			5209	6489	5844	91.4	91.3	192.6	47.3	107.2
DHM-1107			5375	6688	6063	92.0	91.3	198.9	49.6	106.2
CD at 5%			49.1	36.3	22.1	NS	NS	1.5	1.8	0.6
CV (%)			0.6	0.4	0.3	1.8	0.1	0.5	2.6	0.4
60x20 (cm)			5416	6777	6076	83.5	82.8	196.6	48.3	106.7
50x20 (cm)			5168	6400	5831	99.9	99.8	194.9	48.6	106.7
CD at 5%			53.7	25.7	89.6	1.6	0.0	1.3	NS	NS
CV (%)			1.1	0.4	1.6	1.8	0.0	0.7	1.7	0.8
120:60:60			4535	5712	5158	92.2	91.3	193.0	50.3	106.6
200:60:60			5466	6785	6102	91.4	91.3	196.2	48.2	106.8
245:60:85			5874	7268	6600	91.4	91.3	198.0	46.9	106.7
CD at 5%			27.6	20.0	58.4	NS	NS	0.6	0.4	NS
CV (%)			0.6	0.4	1.1	1.8	0.0	0.3	0.8	0.4

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Hybrids	Density	Nutrient management	Barreness (%)	Shelling (%)	System productivity (kg/ha)	Net Returns (Rs./ha)	BC ratio	Uptake (kg/ha)		
								N	P	K
DHM-849	60x20 (cm)	120:60:60	0.23	78.3	4890	46460	3.2	134.8	24.4	88.2
		200:60:60	0.13	80.0	5995	59930	3.5	165.2	29.9	108.1
		245:60:85	0.18	81.0	6500	65995	3.6	179.4	32.5	119.2
	50x20 (cm)	120:60:60	0.12	80.0	4861	46049	3.1	129.4	23.5	83.4
		200:60:60	0.15	81.0	5710	55940	3.3	154.3	28.0	105.6
		245:60:85	0.15	81.0	6238	62332	3.5	168.3	30.5	108.5
DHM-1107	60x20 (cm)	120:60:60	0.26	78.7	5253	51537	3.3	140.6	25.5	90.6
		200:60:60	0.16	80.3	6250	63500	3.6	168.8	30.6	108.7
		245:60:85	0.14	80.7	6668	68385	3.7	179.6	32.5	115.7
	50x20 (cm)	120:60:60	0.14	80.7	5090	49265	3.2	135.7	24.6	87.4
		200:60:60	0.18	81.0	6052	60733	3.5	163.4	29.6	105.3
		245:60:85	0.12	80.7	6425	64955	3.6	172.9	31.3	111.4
Mean of location			0.2	80.3	5827.7	57923.4	3.4	157.7	28.6	102.7
DHM-849			0.2	80.2	5699	56118	3.4	155.2	28.1	102.2
DHM-1107			0.2	80.3	5956	59729	3.5	160.2	29.0	103.2
CD at 5%			NS	NS	NS	NS	NS	1.5	0.3	NS
CV (%)			29.3	0.9	3.5	4.9	4.0	0.7	0.7	2.4
60x20 (cm)			0.2	79.8	5926	59301	3.5	161.4	29.2	105.1
50x20 (cm)			0.1	80.7	5729	56546	3.4	154.0	27.9	100.3
CD at 5%			NS	0.6	NS	NS	NS	1.6	0.3	NS
CV (%)			27.4	0.8	4.1	5.8	4.6	1.1	1.1	5.1
120:60:60			0.2	79.4	5023	48328	3.2	135.1	24.5	87.4
200:60:60			0.2	80.6	6002	60026	3.5	162.9	29.5	106.9
245:60:85			0.1	80.8	6458	65417	3.6	175.0	31.7	113.7
CD at 5%			0.0	0.4	41.9	587.0	0.04	0.82	0.15	2.7
CV (%)			19.2	0.6	0.8	1.2	1.2	0.6	0.6	3.0

Table 32: Effect of plant density and nutrient management practices on performance of hybrids in *Kharif* Season in Dholi.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Ear height (cm)	Days of 50% tasseling
Poineer 3540	60x20 cm	RDF	5928	6078	7478	82.3	82.7	186.8	84.1	56.7
		STCR	5960	4800	7489	83.0	83.3	192.7	86.7	56.7
		SSNM	5754	4111	7122	81.9	82.2	180.4	81.2	56.7
	50x20 cm	RDF	5450	4889	6711	98.7	99.0	177.4	79.8	56.3
		STCR	5639	6656	7033	98.9	99.2	178.3	80.2	56.7
		SSNM	5629	7000	7056	98.1	98.4	175.5	79.0	54.7
Rasi 4595	60x20 cm	RDF	5768	5933	7189	82.3	82.7	180.5	81.2	54.7
		STCR	5861	5156	7256	82.7	83.0	186.4	83.9	54.0
		SSNM	5726	3644	7122	81.7	82.0	180.2	81.1	54.7
	50x20 cm	RDF	5327	4978	6578	97.8	98.1	170.3	76.6	53.3
		STCR	5682	6656	7011	98.7	99.7	180.1	81.1	55.7
		SSNM	4758	8389	5878	97.2	97.6	168.6	75.9	53.3
Mean of location			5623.5	5690.7	6993.5	90.3	90.7	179.8	80.9	55.3
Poineer 3540			5727	5589	7148	90.5	90.8	181.8	81.8	56.3
Rasi 4595			5520	5793	6839	90.1	90.5	177.7	80.0	54.3
CD at 5%			111.5	NS	96.9	NS	NS	1.8	0.8	0.4
CV (%)			1.4	6.6	1.0	0.8	0.5	0.7	0.7	0.5
60x20 cm			5833	4954	7276	82.3	82.6	184.5	83.0	55.6
50x20 cm			5414	6428	6711	98.2	98.7	175.0	78.8	55.0
CD at 5%			141.9	823.2	157.6	1.0	1.2	3.2	1.5	NS
CV (%)			2.7	15.6	2.4	1.2	1.4	1.9	1.9	1.2
RDF			5618	5469	6989	90.3	90.6	178.8	80.4	55.3
STCR			5785	5817	7197	90.8	91.3	184.4	83.0	55.8
SSNM			5467	5786	6794	89.7	90.1	176.2	79.3	54.8
CD at 5%			138.0	NS	156.5	0.4	0.4	2.0	0.9	0.5
CV (%)			2.8	25.1	2.6	0.5	0.4	1.3	1.3	1.0

Treatment details:

A. Main plot: Hybrids
V1 - Poineer 3540
V2 - Rasi 4595

B. Sub plot: Density
D1. 60x20 cm
D2. 50x20 cm

C. Sub-sub plot: Nutrient management ($N:P_2O_5:K_2O$ kg/ha)
N1: RDF (120:60:40)
N2: STCR (183:112:33)
N3: SSNM

Cont…

Hybrids	Density	Nutrient management	Days of 50% silking	Days of maturity	Cob length (cm)	Cob girth (cm)	Moisture (%)	Net Return (Rs./ha)	BC Ratio
Poineer 3540	60x20 cm	RDF	58.7	83.7	15.0	11.7	18.2	26026	0.41
		STCR	58.7	83.7	16.7	13.0	17.9	26510	0.42
		SSNM	59.0	84.0	14.0	11.3	16.6	23424	0.37
	50x20 cm	RDF	58.7	83.7	13.3	14.7	16.2	18860	0.30
		STCR	58.7	83.7	15.7	12.3	17.3	21689	0.34
		SSNM	56.7	81.7	15.7	12.3	17.7	21552	0.34
Rasi 4595	60x20 cm	RDF	57.0	82.0	15.7	12.3	17.2	23635	0.38
		STCR	56.3	81.3	15.7	12.3	16.6	25025	0.40
		SSNM	57.0	82.0	15.0	11.7	17.0	23000	0.37
	50x20 cm	RDF	55.7	80.7	16.7	13.0	16.4	17011	0.27
		STCR	58.0	83.0	14.0	11.7	16.4	22336	0.36
		SSNM	56.3	81.3	13.3	10.3	16.5	8485	0.13
Mean of location			57.6	82.6	15.1	12.2	17.0	21462.7	0.34
Poineer 3540			58.4	83.4	15.1	12.6	17.3	23010	0.37
Rasi 4595			56.7	81.7	15.1	11.9	16.7	19915	0.32
CD at 5%			1.5	1.5	0.0	NS	0.5	1672.2	0.03
CV (%)			1.8	1.3	0.0	7.1	2.1	5.4	5.43
60x20 cm			57.8	82.8	15.3	12.1	17.3	24603	0.39
50x20 cm			57.3	82.3	14.8	12.4	16.7	18322	0.29
CD at 5%			NS	NS	NS	NS	0.4	2128.8	0.03
CV (%)			1.5	1.0	17.3	22.1	2.5	10.7	10.72
RDF			57.5	82.5	15.2	12.9	17.0	21383	0.34
STCR			57.9	82.9	15.5	12.3	17.0	23890	0.38
SSNM			57.3	82.3	14.5	11.4	17.0	19115	0.30
CD at 5%			NS	NS	NS	1.0	NS	2070.6	0.0
CV (%)			1.5	1.0	11.0	9.8	3.4	11.1	11.1

Table 33: Effect of planting density and nutrient management on the performance of hybrid in *Kharif* season in Kalyani.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Days to tasseling	Days to silking	Days to maturity	Cob length (cm)	Cob girth (cm)
Pioneer-30R77	60x20 cm	RDF	6411	8565	82.1	171.9	53.7	56.0	97.3	12.3	12.7
		STCR	10205	12192	83.3	177.7	53.3	55.7	96.0	15.1	13.8
		SSNM	8140	10161	82.8	194.1	54.0	56.7	96.3	13.8	12.8
	50x20 cm	RDF	7901	9852	109.4	190.8	52.7	55.7	98.0	13.5	13.7
		STCR	12100	14101	111.1	197.9	53.0	55.7	96.0	15.9	14.9
		SSNM	10491	12491	110.5	218.3	53.0	55.7	97.0	14.6	14.2
Kaveri 50	60x20 cm	RDF	5013	7001	80.9	193.4	54.7	57.0	104.3	12.7	12.6
		STCR	7803	9791	82.9	204.6	54.7	57.3	102.0	13.8	13.5
		SSNM	7113	9094	81.5	215.7	56.0	58.7	102.7	13.1	12.7
	50x20 cm	RDF	6565	8423	108.6	197.6	55.0	57.7	104.3	12.1	12.9
		STCR	10849	12893	110.8	201.3	55.0	58.0	104.7	13.2	13.9
		SSNM	8818	10829	109.4	222.7	56.0	55.7	104.7	12.8	13.9
Mean of location			8450.7	10449.4	96.1	198.8	54.3	56.6	100.3	13.6	13.5
Pioneer-30R77			9208	11227	96.5	191.8	53.3	55.9	96.8	14.2	13.7
Kaveri 50			7693	9672	95.7	205.9	55.2	57.4	103.8	13.0	13.2
CD at 5%			20.5	110.8	0.7	12.7	NS	NS	0.4	0.0	0.0
CV (%)			0.2	0.7	0.5	4.5	5.9	5.2	0.3	0.2	0.1
60x20 cm			7447	9467	82.3	192.9	54.4	56.9	99.8	13.5	13.0
50x20 cm			9454	11432	110.0	204.8	54.1	56.4	100.8	13.7	13.9
CD at 5%			19.2	55.6	0.4	NS	NS	NS	0.8	0.0	0.0
CV (%)			0.2	0.6	0.4	7.9	4.2	5.9	0.8	0.2	0.1
RDF			6472	8460	95.3	188.4	54.0	56.6	101.0	12.7	13.0
STCR			10239	12244	97.0	195.4	54.0	56.7	99.7	14.5	14.0
SSNM			8640	10644	96.0	212.7	54.8	56.7	100.2	13.6	13.4
CD at 5%			14.3	80.9	0.4	12.7	NS	NS	0.7	0.0	0.0
CV (%)			0.2	0.9	0.5	7.4	2.2	3.2	0.8	0.2	0.1

Treatment details:

Main plot - Hybrids
H1: Pioneer-30R77
H2: Kaveri 50

Sub plot - Density
D1: 60x20 cm
D2: 50x20 cm

C. Sub-sub plot: Nutrient management (N:P_2O_5:K_2O kg/ha)
N1: RDF (120:60:60)
N2: STCR (170:60:68)
N3: SSNM (130:44:66)

Cont…

Hybrids	Density	Nutrient management	Grain rows/ cob	Grains/ row	100 seed weight (g)	Barrenness (%)	Net return (Rs./ha)	BC ratio	Uptake (kg/ha)		
									N	P	K
Pioneer-30R77	60x20 cm	RDF	12.3	24.0	26.6	3.5	25534	1.91	56.2	6.3	48.5
		STCR	14.5	28.3	31.4	2.5	81265	2.99	130.6	25.3	129.7
		SSNM	12.8	26.3	28.3	2.7	41351	2.54	127.4	18.2	85.4
	50x20 cm	RDF	12.2	24.7	26.1	3.1	54407	2.34	94.7	16.0	75.2
		STCR	14.6	32.3	29.8	1.8	103999	3.18	241.7	35.2	195.3
		SSNM	13.3	29.2	27.3	2.5	87585	3.28	137.4	25.7	135.7
Kaveri 50	60x20 cm	RDF	11.4	22.0	24.8	3.4	13789	1.49	37.1	4.3	38.7
		STCR	13.1	25.2	29.1	2.8	52432	2.27	85.6	14.7	72.9
		SSNM	12.4	24.7	26.5	2.9	47051	2.24	79.7	12.2	53.7
	50x20 cm	RDF	12.0	22.6	23.2	2.9	38382	1.94	65.8	7.3	55.4
		STCR	13.6	26.5	27.9	2.5	88991	3.15	166.8	27.3	168.7
		SSNM	12.9	25.7	25.2	2.6	67515	2.76	107.6	19.4	92.8
Mean of location			12.9	26.0	27.2	2.8	58525.2	2.51	110.9	17.7	96.0
Pioneer-30R77			13.3	27.5	28.2	2.7	65690	2.71	131.3	21.1	111.6
Kaveri 50			12.6	24.4	26.1	2.9	51360	2.31	90.4	14.2	80.4
CD at 5%			0.3	0.4	1.4	0.0	11308.6	0.2	30.3	4.3	3.2
CV (%)			1.6	1.0	3.7	0.2	13.5	6.7	19.0	17.0	2.3
60x20 cm			12.7	25.1	27.8	3.0	43571	2.24	86.1	13.5	71.5
50x20 cm			13.1	26.8	26.6	2.6	73480	2.78	135.7	21.8	120.5
CD at 5%			0.2	0.8	0.5	0.0	7592.7	0.2	12.9	2.5	3.3
CV (%)			1.7	3.3	1.9	0.4	14.0	6.6	12.6	15.0	3.8
RDF			12.0	23.3	25.2	3.2	33028	1.92	63.5	8.5	54.5
STCR			13.9	28.1	29.6	2.4	81672	2.90	156.2	25.6	141.7
SSNM			12.9	26.5	26.8	2.7	60876	2.71	113.0	18.9	91.9
CD at 5%			0.2	0.4	0.5	0.0	10291.6	0.1	13.8	1.8	3.9
CV (%)			1.8	1.6	2.0	0.6	20.3	6.6	14.3	11.5	4.7

Table 34: Effect of planting density and nutrient management practices on the performance of hybrids in *Kharif* season in Ranchi.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Barreness in maize (%)	Cob length (cm)
Bio-9637	60x20 cm	RDF	4507	5567	6575	79.2	77.8	215.7	52.7	56.3	1.8	15.8
		STCR	5121	6297	7225	80.3	79.7	234.0	52.3	55.0	0.7	17.5
		SSNM	4714	5786	6778	80.6	80.3	194.0	53.3	56.0	0.3	18.2
	50x20 cm	RDF	3876	4906	6792	96.7	90.0	190.8	53.3	56.3	6.9	17.7
		STCR	5646	6919	9508	96.7	91.9	223.0	50.7	54.3	4.9	18.4
		SSNM	3252	4167	5508	96.9	91.1	234.6	51.0	54.7	6.0	16.2
Bio-9682	60x20 cm	RDF	5173	6422	7619	80.6	79.4	210.7	51.3	54.3	1.4	16.2
		STCR	4906	6119	7144	82.2	79.4	214.5	49.3	52.3	3.4	20.5
		SSNM	5877	7156	8481	81.4	80.0	231.6	49.7	53.7	1.7	21.0
	50x20 cm	RDF	3771	4808	6689	96.7	88.6	228.8	52.0	56.7	8.4	18.0
		STCR	5536	6819	8094	97.8	93.6	230.8	51.3	54.3	4.3	16.6
		SSNM	6191	7614	9692	97.5	90.8	220.4	51.7	54.7	6.8	16.0
Mean of location			4881.0	6048.4	7508.8	88.9	85.2	219.1	51.6	54.9	3.9	17.7
Bio-9637			4520	5607	7064	88.4	85.1	215.4	52.2	55.4	3.4	17.3
Bio-9682			5243	6490	7953	89.4	85.3	222.8	50.9	54.3	4.3	18.0
CD at 5%			230.0	162.4	NS	NS	NS	5.3	NS	NS	NS	0.6
CV (%)			3.3	1.9	8.3	2.7	3.4	1.7	6.3	3.5	18.9	2.4
60x20 cm			5050	6225	7304	80.7	79.4	216.8	51.4	54.6	1.6	18.2
50x20 cm			4712	5872	7714	97.0	91.0	221.4	51.7	55.2	6.2	17.1
CD at 5%			299.2	334.9	336.7	2.2	2.7	NS	NS	NS	0.6	0.5
CV (%)			6.6	6.0	4.8	2.7	3.4	2.7	3.9	4.3	17.1	3.1
RDF			4332	5426	6919	88.3	84.0	211.5	52.3	55.9	4.6	16.9
STCR			5303	6539	7993	89.2	86.2	225.6	50.9	54.0	3.3	18.2
SSNM			5009	6181	7615	89.1	85.6	220.2	51.4	54.8	3.7	17.9
CD at 5%			388.7	509.4	528.2	NS	NS	11.0	NS	1.1	0.6	0.9
CV (%)			9.2	9.7	8.1	4.3	4.8	5.8	2.7	2.3	18.0	5.6

Cont…

Hybrids	Density	Nutrient management	Cob girth (cm)	Grains row/ cob	Grains/ row	Grains/ cob	1000-seed weight (g)	Net return (Rs/ha)	BC ratio	Uptake (kg/ha)		
										N	P	K
Bio-9637	60x20 cm	RDF	13.7	11.5	24.2	266.9	299.4	36313	1.34	100.7	15.2	86.3
		STCR	15.6	11.9	27.1	311.2	312.2	37520	1.09	115.1	18.0	97.3
		SSNM	14.3	11.7	28.5	322.2	308.9	37140	1.27	106.0	16.3	90.0
	50x20 cm	RDF	11.5	11.1	27.4	293.3	295.7	27694	1.02	89.2	13.2	81.7
		STCR	12.2	12.4	28.8	344.8	308.3	45158	1.31	130.6	19.9	117.7
		SSNM	15.2	12.1	25.1	290.7	306.0	16810	0.58	74.9	11.3	67.5
Bio-9682	60x20 cm	RDF	13.9	12.3	25.1	295.2	310.1	45717	1.69	112.8	16.5	95.9
		STCR	14.4	13.9	32.2	436.8	322.5	34597	1.00	107.8	16.5	91.9
		SSNM	14.4	13.2	33.4	428.4	321.8	53464	1.84	128.0	19.2	108.4
	50x20 cm	RDF	15.0	11.2	27.8	298.9	301.9	26251	0.97	89.8	13.0	82.8
		STCR	14.8	11.5	25.6	282.1	311.7	43384	1.26	124.4	18.9	106.8
		SSNM	12.5	11.6	24.8	276.2	307.7	58026	1.99	141.7	21.2	124.6
Mean of location			14.0	12.0	27.5	320.6	308.9	38506.0	1.28	110.1	16.6	95.9
Bio-9637			13.7	11.8	26.9	304.9	305.1	33439	1.10	102.8	15.6	90.1
Bio-9682			14.2	12.3	28.1	336.3	312.6	43573	1.46	117.4	17.6	101.7
CD at 5%			NS	NS	1.0	3.6	NS	3168.5	0.08	5.9	1.1	1.8
CV (%)			5.2	3.1	2.5	0.8	4.8	5.7	4.43	3.7	4.7	1.3
60x20 cm			14.4	12.4	28.4	343.5	312.5	40792	1.37	111.7	17.0	95.0
50x20 cm			13.5	11.6	26.6	297.6	305.2	36220	1.19	108.4	16.2	96.9
CD at 5%			0.5	0.6	0.8	16.8	NS	4122.1	0.13	NS	NS	NS
CV (%)			3.6	5.7	3.0	5.7	5.6	11.6	11.16	7.8	6.3	6.5
RDF			13.5	11.5	26.1	288.6	301.8	33993	1.26	98.2	14.5	86.7
STCR			14.3	12.4	28.4	343.7	313.7	40165	1.17	119.5	18.3	103.4
SSNM			14.1	12.2	28.0	329.4	311.1	41360	1.42	112.6	17.0	97.6
CD at 5%			NS	0.6	1.5	24.3	NS	5351.9	0.18	7.1	1.0	5.8
CV (%)			5.4	5.7	6.3	8.8	4.5	16.1	16.00	7.5	7.2	7.0

Table 35: Effect of planting density and nutrient management practices on performance of Full season hybrids in *Kharif* season in Karimnagar.

Hybrid	Density	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Stalk yield (kg/ha)	Plant height (cm)	Ear height (cm)	Days to 50% tasseling	Days to 50% silking	Cob length (cm)
NK 6240	60x20 cm	SSNM	9127	10961	9055	185.0	73.3	52.0	54.7	19.6
		STCR	9235	10828	8611	171.3	71.3	52.7	55.3	17.6
		RDF	8941	10873	8944	180.0	65.7	54.0	57.0	19.1
	50x20 cm	SSNM	9153	11333	6194	195.7	82.3	52.0	54.3	17.7
		STCR	10006	12018	7750	192.3	79.0	50.3	53.3	18.8
		RDF	9477	11581	6750	194.3	79.3	51.7	54.0	18.7
K 3110	60x20 cm	SSNM	8364	10148	8000	192.3	74.3	53.0	55.3	18.2
		STCR	9072	11068	8055	198.3	78.3	54.3	56.7	19.0
		RDF	8951	10996	7722	192.7	77.7	53.3	54.7	19.3
	50x20 cm	SSNM	8040	9730	6972	202.0	82.0	53.3	55.7	18.7
		STCR	8963	11162	5861	200.3	77.3	52.0	54.7	19.3
		RDF	8281	10025	7027	193.0	74.0	55.0	57.3	19.7
Mean of location			8967.5	10893.5	7578.4	191.4	76.2	52.8	55.3	18.8
NK 6240			9323	11266	7884	186.4	75.2	52.1	54.8	18.6
K 3110			8612	10521	7273	196.4	77.3	53.5	55.7	19.1
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			15.9	12.6	16.2	7.5	18.0	12.2	10.9	5.8
60x20 cm			8948	10812	8398	186.6	73.4	53.2	55.6	18.8
50x20 cm			8987	10975	6759	196.3	79.0	52.4	54.9	18.8
CD at 5%			NS	NS	1292.4	NS	5.4	NS	NS	NS
CV (%)			13.8	16.7	18.4	5.5	7.7	3.9	3.3	3.1
SSNM			8671	10543	7555	193.8	78.0	52.6	55.0	18.6
STCR			9319	11269	7569	190.6	76.5	52.3	55.0	18.7
RDF			8912	10869	7611	190.0	74.2	53.5	55.8	19.2
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			11.1	11.1	17.8	5.7	9.4	2.6	2.1	4.0

Treatment details:

A. Main plot: Hybrids

P1: NK 6240

P2: K 3110

B. Sub plot: Density

D1: 60x20 cm

D2: 50x20 cm

C. Sub-sub plot: Nutrient management ($N:P_2O_5:K_2O$ kg/ha)

N1: SSNM (190:84:143)

N2: STCR (260:94:61)

N3: RDF (200:60:50)

Cont…

Hybrid	Density	Nutrient management	Cob girth (cm)	Grain rows/cob	Grains/row	100-grain weight (g)	Shelling (%)	Net returns (Rs./ha)	BC ratio
NK 6240	60x20 cm	SSNM	16.0	13.6	34.2	38.0	83.3	57148	2.22
		STCR	15.5	13.7	30.9	36.0	85.2	56589	2.21
		RDF	15.6	13.5	33.5	36.7	82.2	55407	2.13
	50x20 cm	SSNM	15.9	13.6	31.3	36.7	81.0	56482	2.13
		STCR	16.1	14.0	32.3	36.3	83.3	65685	2.00
		RDF	16.0	13.5	32.7	37.0	81.8	61425	2.07
K 3110	60x20 cm	SSNM	16.0	13.9	36.9	34.0	82.5	47155	2.41
		STCR	16.5	14.0	38.5	32.7	82.0	54449	2.18
		RDF	16.3	14.1	40.4	34.3	81.4	55538	2.11
	50x20 cm	SSNM	16.3	14.3	37.6	35.0	82.5	41897	2.69
		STCR	16.1	13.7	39.0	35.0	80.3	52022	2.45
		RDF	15.9	13.5	38.3	32.3	82.9	45754	2.43
Mean of location			16.0	13.8	35.5	35.3	82.4	54129.2	2.25
NK 6240			15.9	13.6	32.5	36.8	82.8	58789	2.13
K 3110			16.2	13.9	38.4	33.9	82.0	49469	2.38
CD at 5%			NS	NS	1.9	2.1	NS	NS	NS
CV (%)			1.6	4.4	3.7	4.1	3.3	34.6	25.4
60x20 cm			16.0	13.8	35.7	35.3	82.8	54381	2.21
50x20 cm			16.1	13.8	35.2	35.4	82.0	53878	2.30
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			2.7	2.9	3.9	11.7	3.4	29.9	23.8
SSNM			16.1	13.8	35.0	35.9	82.3	50670	2.36
STCR			16.0	13.9	35.2	35.0	82.7	57186	2.21
RDF			16.0	13.6	36.3	35.1	82.1	54531	2.18
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			2.4	4.9	7.5	5.3	3.2	24.2	13.9

Table 36: Effect of planting density and nutrient management practices on the performance of hybrids in *Kharif* season in Chhindwara.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	100-seed weight (g)
DKC 7074	60x20 cm	60:30:20	5160	14012	75.8	75.2	152.7	49.3	51.3	35.7
		120:60:40	6123	15814	77.7	77.8	157.3	49.0	51.3	37.3
		140:34:71	6691	16583	80.8	79.6	164.0	47.7	53.3	37.8
	50x20 cm	60:30:20	4889	14545	96.9	92.7	150.7	48.7	53.0	34.3
		120:60:40	6289	16365	97.2	93.6	155.3	47.7	51.3	36.7
		140:34:71	6831	16828	99.1	96.2	161.7	49.0	53.7	37.5
DKC 8101	60x20 cm	60:30:20	6315	14589	78.0	78.7	155.0	56.0	58.7	36.8
		120:60:40	7058	16618	78.9	78.7	163.3	56.3	59.3	38.0
		140:34:71	7277	17143	80.5	80.5	164.3	56.3	59.3	40.8
	50x20 cm	60:30:20	6193	14773	96.4	96.2	152.3	56.0	58.3	35.6
		120:60:40	7373	16723	97.5	98.8	156.0	56.3	60.0	37.3
		140:34:71	7452	17248	98.8	98.8	165.7	56.7	60.3	39.0
Mean of location			6471.0	15936.9	88.1	87.2	158.2	52.4	55.8	37.2
DKC 7074			5997	15691	87.9	85.9	156.9	48.6	52.3	36.6
DKC 8101			6945	16182	88.3	88.6	159.4	56.3	59.3	37.9
CD at 5%			412.9	NS	NS	2.3	NS	2.3	1.5	NS
CV (%)			4.4	3.6	1.5	1.8	3.5	3.0	1.9	3.3
60x20 cm			6437	15793	78.6	78.4	159.4	52.4	55.6	37.7
50x20 cm			6504	16080	97.6	96.1	156.9	52.4	56.1	36.7
CD at 5%			NS	NS	2.3	2.9	1.2	NS	NS	NS
CV (%)			6.1	6.9	2.8	3.5	0.8	1.4	1.6	8.0
60:30:20			5639	14480	86.8	85.7	152.7	52.5	55.3	35.6
120:60:40			6711	16380	87.8	87.2	158.0	52.3	55.5	37.3
140:34:71			7063	16951	89.8	88.8	163.9	52.4	56.7	38.8
CD at 5%			456.3	563.0	1.4	1.9	3.4	NS	0.8	2.5
CV (%)			8.1	4.1	1.9	2.5	2.5	1.3	1.6	7.6

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Hybrids	Density	Nutrient management	Net returns (Rs./ha)	BC ratio	Barrenness in maize (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
DKC 7074	60x20 cm	60:30:20	55242	3.05	5.7	15.1	14.0	12.9	27.3
		120:60:40	65593	3.18	5.0	15.4	14.8	13.7	28.3
		140:34:71	72705	3.49	4.5	16.6	15.0	13.6	30.3
	50x20 cm	60:30:20	52457	2.86	6.0	14.2	13.3	12.9	25.0
		120:60:40	67855	3.26	4.3	15.4	14.6	13.7	27.7
		140:34:71	74359	3.54	4.0	16.3	15.0	13.5	29.0
DKC 8101	60x20 cm	60:30:20	69096	3.81	5.3	15.3	14.5	13.5	28.0
		120:60:40	77160	3.74	4.6	16.3	15.7	13.6	32.7
		140:34:71	80004	3.84	4.1	15.1	16.8	15.0	35.3
	50x20 cm	60:30:20	67672	3.69	5.7	16.8	14.4	13.6	26.3
		120:60:40	80686	3.87	4.0	15.9	14.9	13.5	28.3
		140:34:71	81920	3.90	4.2	15.4	16.7	14.4	34.7
Mean of location			70396	3.52	4.8	15.7	15.0	13.7	29.4
DKC 7074			64702	3.23	4.9	15.5	14.5	13.4	27.9
DKC 8101			76090	3.81	4.7	15.8	15.5	13.9	30.9
CD at 5%			5149.3	0.3	NS	NS	NS	NS	2.8
CV (%)			5.1	5.7	15.7	3.7	11.0	12.3	6.7
60x20 cm			69967	3.52	4.9	15.6	15.1	13.7	30.3
50x20 cm			70825	3.52	4.7	15.7	14.8	13.6	28.5
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			7.5	7.3	18.5	8.2	7.1	9.0	9.1
60:30:20			61117	3.36	5.7	15.4	14.1	13.2	26.7
120:60:40			72824	3.51	4.4	15.8	15.0	13.6	29.3
140:34:71			77247	3.69	4.2	15.9	15.9	14.1	32.3
CD at 5%			5122.8	0.3	1.1	NS	1.1	NS	3.1
CV (%)			8.4	8.3	25.4	13.0	8.5	7.7	12.1

Table 37: Effect of planting density and nutrients management practices on the performance of hybrids in *Kharif* season in Godhra.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days 50% silking	1000-grain weight (g)	Net Returns (Rs./ha)	BC ratio
GAYMH-1	60x25 (cm)	120:60:0	1926	2778	1488	60.7	60.7	163.3	54.7	260.0	19180	2.05
		75:20:50	4525	5356	2177	65.1	65.8	145.0	54.3	266.7	63836	4.72
		140:30:37	2503	4156	2111	64.9	65.1	136.7	53.3	256.7	33332	3.11
	60x20 (cm)	120:60:0	2422	3378	1400	64.7	64.9	168.3	53.7	250.0	26134	2.43
		75:20:50	3163	4689	2355	65.1	65.8	141.7	54.3	243.3	42368	3.46
		140:30:37	3162	4022	3822	60.9	57.8	145.0	53.7	263.3	46296	3.94
HQPM-1	60x25 (cm)	120:60:0	4926	7333	3000	57.3	57.8	148.3	54.7	273.3	75082	5.13
		75:20:50	5096	7244	3800	54.2	55.1	138.3	56.3	266.7	82241	5.79
		140:30:37	4355	7111	3488	64.0	64.4	135.0	57.0	260.0	65487	5.15
	60x20 (cm)	120:60:0	3733	5867	2577	55.1	55.1	138.3	55.3	280.0	54305	3.99
		75:20:50	5007	8000	4533	59.8	60.0	138.3	56.0	273.3	78413	5.57
		140:30:37	4748	6178	2444	57.8	58.2	128.3	58.0	246.7	71581	5.11
Mean of location			3797.2	5509.3	2766.3	60.8	60.9	143.9	55.1	261.7	54854.6	4.20
GAYMH-1			2950	4063	2226	63.6	63.3	150.0	54.0	256.7	38524	3.29
HQPM-1			4644	6956	3307	58.0	58.4	137.8	56.2	266.7	71185	5.12
CD at 5%			622.3	964.2	778.9	NS	NS	7.8	NS	NS		
CV (%)			11.4	12.2	19.6	8.6	9.7	3.8	3.1	3.8		
60x25 (cm)			3889	5663	2677	61.0	61.5	144.4	55.1	263.9	56526	4.33
60x20 (cm)			3706	5356	2855	60.6	60.3	143.3	55.2	259.4	53183	4.08
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS		
CV (%)			9.0	12.1	25.9	9.6	10.6	2.9	0.4	2.0		
120:60:0			3252	4839	2116	59.4	59.6	154.6	54.6	265.8	43675	3.40
75:20:50			4448	6322	3216	61.1	61.7	140.8	55.3	262.5	66715	4.89
140:30:37			3692	5367	2966	61.9	61.4	136.3	55.5	256.7	54174	4.33
CD at 5%			138.4	423.8	235.2	NS	NS	2.6	0.4	NS		
CV (%)			4.2	8.9	9.8	6.3	5.8	2.1	0.8	3.2		

Table 38: Effect of planting density and nutrient management practices on the performance of hybrids in *Kharif* season in Udaipur.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Shelling (%)	Net returns (Rs/ha)	BC ratio
PQPM-1	50x20 cm	RDF	4451	6657	96.7	100.7	232.1	48.8	53.9	73.6	38934	1.73
		SSNM	4933	7414	96.3	100.4	235.4	49.8	55.4	77.5	45481	2.01
		STCR	5503	8245	95.8	99.9	218.4	49.0	54.7	79.1	50560	1.99
		G. Seeker	4231	6241	96.3	100.4	230.3	50.8	56.7	72.4	35859	1.60
	60x20 cm	RDF	4038	6229	78.7	82.0	222.4	49.0	54.4	79.4	33665	1.51
		SSNM	4423	6849	79.2	82.6	225.4	49.5	54.4	81.8	38882	1.74
		STCR	4938	7664	79.2	82.5	233.0	49.8	54.6	80.8	43283	1.72
		G. Seeker	3835	5930	78.8	82.2	219.2	50.8	55.6	78.2	30930	1.39
HQPM-1	50x20 cm	RDF	5043	7501	97.0	98.2	235.1	47.3	52.2	74.7	47052	2.09
		SSNM	5518	8258	96.7	97.7	236.5	46.3	51.2	77.8	53514	2.37
		STCR	5950	9003	96.5	97.6	245.1	44.5	49.9	82.9	56839	2.24
		G. Seeker	4723	7175	96.3	97.4	231.5	48.0	54.0	73.2	42873	1.91
	60x20 cm	RDF	4595	6704	79.0	79.9	225.3	48.0	52.9	78.3	40925	1.84
		SSNM	4935	7586	78.2	79.1	231.1	46.5	51.9	83.0	45917	2.05
		STCR	5490	8395	79.2	80.1	237.8	46.3	51.9	86.4	50790	2.02
		G. Seeker	4158	6432	78.8	79.8	224.5	45.3	50.9	77.2	35402	1.59
Mean of location			4797.5	7267.6	87.7	90.0	230.2	48.1	53.4	78.5	43181.6	1.86
PQPM-1			4544	6904	87.6	91.3	227.0	49.7	55.0	77.9	39699	1.71
HQPM-1			5051	7632	87.7	88.7	233.4	46.5	51.8	79.2	46664	2.01
CD at 5%			326.0	547.7	NS	NS	NS	3.1	2.5	NS	4345.1	0.19
CV (%)			8.5	9.5	5.9	5.9	7.7	8.1	6.0	6.8	12.6	12.65
50x20 cm			5044	7562	96.5	99.0	233.1	48.0	53.5	76.4	46389	1.99
60x20 cm			4551	6974	78.9	81.0	227.3	48.1	53.3	80.7	39974	1.73
CD at 5%			233.5	370.1	2.4	2.3	NS	NS	NS	2.8	3211.2	0.14
CV (%)			8.0	8.3	4.4	4.2	7.1	4.6	4.8	5.7	12.2	12.26
RDF			4531	6773	87.8	90.2	228.7	48.3	53.3	76.5	40144	1.79
SSNM			4952	7527	87.6	89.9	232.1	48.0	53.2	80.0	45948	2.04
STCR			5470	8327	87.7	90.0	233.6	47.4	52.8	82.3	50368	1.99
Green Seeker			4237	6444	87.6	89.9	226.4	48.7	54.3	75.3	36266	1.63
CD at 5%			147.1	216.0	NS	NS	NS	NS	NS	2.3	1880.0	0.14
CV (%)			4.3	4.1	2.4	2.4	5.8	4.3	4.2	4.0	6.1	6.09

Treatment details:

A. Main plot: Hybrids
V1: HQPM-1
V2: PQPM-1

B. Sub plot: Density
D1: 60x20 cm
D2: 50x20 cm

C. Sub-sub plot: Nutrient management
N1: RDF (90 kg N +40 kg P2O5/ha)
N2: SSNM (113 kg N + 39 kg P2O5/ha)
N3: STCR (157.8 kg N+87.11 kg P2O5+81.7 kg K2O/ha)
N4: Green seeker (85 kg N + 40 kg P2O5/ha)

Table 39: Effect of planting density and nutrient management practices on the performance of hybrids in *Kharif* season in Bhubaneswar.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Plant Height (cm)	Days to 50% silking	Days to maturity
Hishel	60x20 cm	RDF	4709	5537	10822	66.9	161.9	51.0	109.3
		STCR	6133	6384	13689	67.9	162.9	51.0	109.0
		SSNM	5795	6203	13200	67.9	164.3	50.0	108.7
	50x20 cm	RDF	5259	6252	15311	80.8	158.5	52.0	109.0
		STCR	6487	7372	16378	82.0	172.8	51.0	109.7
		SSNM	6050	6729	15956	80.7	161.7	52.0	109.0
P 3441	60x20 cm	RDF	4942	5901	14089	66.7	172.7	51.0	107.0
		STCR	6621	7083	15089	67.7	176.7	50.0	106.7
		SSNM	6149	6916	14311	66.8	175.9	50.7	106.0
	50x20 cm	RDF	5874	6825	16489	80.1	175.6	51.0	105.0
		STCR	7075	8324	17800	82.3	180.4	51.0	108.0
		SSNM	6551	7681	16733	81.0	173.7	51.0	105.0
Mean of location			5970.2	6767.1	14988.9	74.2	169.8	51.0	107.7
Hishel			5739	6413	14226	74.4	163.7	51.2	109.1
P 3441			6202	7122	15752	74.1	175.9	50.8	106.3
CD at 5%			362.9	445.2	247.4	NS	7.8	NS	1.8
CV (%)			4.2	4.6	1.2	1.9	3.2	1.2	1.2
60x20 cm			5725	6337	13533	67.3	169.1	50.6	107.8
50x20 cm			6216	7197	16444	81.2	170.5	51.3	107.6
CD at 5%			159.2	156.8	225.3	1.0	NS	NS	NS
CV (%)			2.9	2.5	1.6	1.5	1.7	1.9	1.2
RDF			5196	6129	14178	73.6	167.2	51.3	107.6
STCR			6579	7291	15739	75.0	173.2	50.8	108.3
SSNM			6136	6882	15050	74.1	168.9	50.9	107.2
CD at 5%			171.7	195.9	287.4	0.9	2.7	NS	0.9
CV (%)			3.3	3.3	2.2	1.5	1.8	1.6	0.9

Treatment details:

A. Main plot: Hybrids
H1: Hishel
H2: P 3441

B. Sub plot: Density
DI: 60x20 cm
D2: 50x20 cm

C. Sub-sub plot: Nutrient management (N:P_2O_5:K_2O kg/ha)
N1: SSNM (110:47:71)
N2: STCR (208:19:58)
N3: RDF (120:60:60)

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Hybrids	Density	Nutrient management	1000-grain weight (g)	Cob length (cm)	Cob girth (cm)	Grains rows/Cob	Grains/ row	Net return (Rs./ha)	BC ratio
Hishel	60x20 cm	RDF	271.7	14.6	13.8	10.3	29.0	31615	0.76
		STCR	281.7	16.4	15.6	11.7	29.5	53348	1.28
		SSNM	280.7	15.3	14.3	10.3	29.9	48377	1.16
	50x20 cm	RDF	287.0	14.2	13.3	10.3	27.6	43392	1.04
		STCR	292.3	16.6	15.7	12.3	31.3	60736	1.46
		SSNM	289.7	16.0	14.2	11.7	31.0	54512	1.31
P 3441	60x20 cm	RDF	279.3	14.7	14.1	11.7	29.0	37972	0.91
		STCR	295.3	17.7	15.4	13.7	31.5	61212	1.47
		SSNM	294.3	17.1	14.7	12.3	31.3	54181	1.30
	50x20 cm	RDF	293.7	14.5	14.3	11.7	28.3	52718	1.27
		STCR	297.0	18.0	15.7	12.7	31.3	69942	1.68
		SSNM	294.7	16.1	14.8	13.0	30.6	61928	1.49
Mean of location			288.1	15.9	14.7	11.8	30.0	52494.5	1.26
Hishel			283.8	15.5	14.5	11.1	29.7	48663	1.17
P 3441			292.4	16.3	14.8	12.5	30.3	56326	1.35
CD at 5%			NS	NS	NS	0.2	NS	4968.9	0.12
CV (%)			2.7	5.2	5.2	1.4	9.0	6.6	6.60
60x20 cm			283.8	16.0	14.6	11.7	30.0	47784	1.15
50x20 cm			292.4	15.9	14.7	11.9	30.0	57205	1.38
CD at 5%			NS	NS	NS	NS	NS	2052.5	0.05
CV (%)			3.4	1.9	2.0	17.0	4.8	4.2	4.22
RDF			282.9	14.5	13.9	11.0	28.5	41424	1.00
STCR			291.6	17.2	15.6	12.6	30.9	61310	1.47
SSNM			289.8	16.1	14.5	11.8	30.7	54750	1.32
CD at 5%			5.3	0.7	0.4	0.7	0.9	2382.3	0.06
CV (%)			2.1	5.1	3.1	7.1	3.5	5.2	5.24

Table 40: Effect of planting density and nutrient management practices on the performance of hybrids in *Kharif* season in Dharwad.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha) 25 DAS	Plants ('000/ha) AH	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking
Bioseed	60x20 cm (83333)	RDF	7560	9545	78.5	78.0	76.0	212.7	51.3	55.7
		STCR	7743	9665	78.0	77.5	75.8	215.3	52.3	56.0
		SSNM	7827	9714	77.8	77.2	75.7	217.2	52.0	56.3
	50x20 cm (100000)	RDF	7385	9451	96.2	95.3	92.5	210.5	52.0	57.0
		STCR	7514	9524	96.0	95.0	92.2	212.8	52.0	57.0
		SSNM	7594	9505	96.5	96.0	92.8	214.7	51.7	56.0
NK-6240	60x20 cm (83333)	RDF	7341	9270	78.3	77.8	75.3	208.6	52.3	56.7
		STCR	7523	9469	78.5	77.8	75.5	211.2	52.0	56.3
		SSNM	7675	9525	78.3	77.7	75.3	212.3	51.7	56.0
	50x20 cm (100000)	RDF	7052	9151	96.7	96.2	93.2	205.7	52.0	57.0
		STCR	7171	9332	96.2	95.3	92.5	207.9	52.0	56.3
		SSNM	7248	9417	96.7	95.8	92.8	210.4	52.3	57.0
Mean of location			7469.3	9464.0	87.3	86.6	84.1	211.6	52.0	56.4
Bioseed			7604	9567	87.2	86.5	84.2	213.9	51.9	56.3
NK-6240			7335	9361	87.4	86.8	84.1	209.3	52.1	56.6
CD at 5%			NS	NS	0.2	0.2	NS	4.4	NS	NS
CV (%)			5.6	2.6	0.2	0.2	0.6	1.4	1.5	0.8
60x20 cm (83333)			7611	9531	78.3	77.7	75.6	212.9	51.9	56.2
50x20 cm (100000)			7327	9397	96.4	95.6	92.7	210.3	52.0	56.7
CD at 5%			162.2	NS	0.6	0.6	0.4	1.7	NS	NS
CV (%)			2.3	1.6	0.8	0.7	0.6	0.8	1.4	1.4
RDF			7335	9354	87.4	86.8	84.3	209.4	51.9	56.6
STCR			7488	9497	87.2	86.4	84.0	211.8	52.1	56.4
SSNM			7586	9540	87.3	86.7	84.2	213.7	51.9	56.3
CD at 5%			NS	NS	NS	NS	NS	3.3	NS	NS
CV (%)			3.2	2.3	1.0	1.1	0.8	1.8	1.7	1.8

Treatment details:

A. Main plot: Genotypes

G1: Bioseed

G2: NK-6240

B. Sub plot: Density Plants/ha

D1: 60x20 cm (83333)

D2: 50x20 cm (100000)

C. Sub-sub plot: Nutrient management (N:P_2O_5:K_2O kg/ha)

N1: RDF (150:65:65)

N2: STCR (252:42:0)

N3: SSNM (306:143:282)

Cont…

Hybrids	Density	Nutrient management	100-seed weight (g)	Net returns (Rs. /ha)	BC ratio	Shelling (%)	Cob length (cm)	Cob girth (cm)	Grain rows/ cob	Grains/ row
Bioseed	60x20 cm (83333)	RDF	31.0	59722	2.90	79.4	17.2	4.6	12.6	34.3
		STCR	33.8	63619	3.15	80.1	17.4	4.5	13.5	38.3
		SSNM	36.9	50555	2.16	81.3	18.2	4.3	14.5	40.6
	50x20 cm (100000)	RDF	30.7	57756	2.84	77.0	16.9	4.3	12.4	32.7
		STCR	31.9	61031	3.06	78.0	17.1	4.3	13.4	35.5
		SSNM	34.4	47825	2.09	78.1	17.5	4.2	14.3	38.6
NK-6240	60x20 cm (83333)	RDF	29.6	57108	2.82	76.7	16.3	4.8	12.3	32.5
		STCR	31.2	61083	3.06	77.1	16.7	3.7	13.4	34.9
		SSNM	35.2	48709	2.11	77.6	17.1	4.9	13.5	35.6
	50x20 cm (100000)	RDF	27.4	53856	2.71	73.8	14.4	4.5	12.2	30.1
		STCR	29.3	57130	2.93	74.9	15.0	4.2	12.9	27.9
		SSNM	32.6	43994	2.01	75.8	15.9	4.6	13.4	33.0
Mean of location			32.0	55199.1	2.65	77.5	16.6	4.4	13.2	34.5
Bioseed			33.1	56751	2.70	79.0	17.4	4.4	13.5	36.6
NK-6240			30.9	53647	2.61	76.0	15.9	4.4	13.0	32.3
CD at 5%			NS	NS	NS	1.8	NS	NS	NS	3.4
CV (%)			5.8	8.7	5.2	1.6	8.5	18.8	5.6	6.8
60x20 cm (83333)			33.0	56799	2.70	78.7	17.1	4.5	13.3	36.0
50x20 cm (100000)			31.1	53599	2.61	76.3	16.2	4.4	13.1	33.0
CD at 5%			1.1	1797.5	0.1	1.2	0.6	NS	NS	1.8
CV (%)			3.7	3.5	2.0	1.6	3.7	10.9	3.9	5.6
RDF			29.7	57111	2.82	76.7	16.2	4.6	12.4	32.4
STCR			31.6	60716	3.05	77.5	16.6	4.2	13.3	34.1
SSNM			34.8	47771	2.09	78.2	17.2	4.5	13.9	36.9
CD at 5%			2.3	2376.9	0.1	0.4	NS	NS	0.9	NS
CV (%)			8.3	5.0	3.1	0.5	5.9	12.2	7.5	12.3

Table 41: Effect of planting density and nutrient management practices on the performance of maize hybrids in *Kharif* season in Hyderabad.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Strew yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
P30V92	60x20 cm (83,333)	RDF	7940	8677	78.5	74.1	228.3	57.7	60.7
		STCR	9020	10050	80.5	77.9	234.0	57.7	60.7
		SSNM	6947	7850	80.0	77.1	222.7	56.3	58.7
		150%	8633	9807	79.3	76.6	243.3	58.3	60.3
	50x20 cm (1,00,000)	RDF	8267	9217	91.3	88.4	232.0	58.7	61.0
		STCR	9063	10043	95.3	90.5	240.7	59.3	62.0
		SSNM	7263	8090	87.5	84.1	227.7	57.3	59.7
		150%	8967	10017	99.9	97.2	246.7	59.0	61.0
NK 6240	60x20 cm (83,333)	RDF	8473	9550	79.1	72.2	232.0	59.3	61.3
		STCR	9347	10620	81.5	75.5	241.0	59.7	61.7
		SSNM	7233	8050	79.7	74.5	228.7	57.7	59.7
		150%	9067	10120	80.9	74.9	249.0	60.3	62.3
	50x20 cm (1,00,000)	RDF	8453	9483	89.7	80.6	237.0	61.0	63.0
		STCR	9173	9857	93.2	80.8	243.0	61.7	63.7
		SSNM	7100	7867	87.3	82.5	229.7	58.7	60.3
		150%	8900	9727	100.5	84.5	249.3	60.7	62.7
Mean of location			8365.4	9314.0	86.5	80.7	236.6	59.0	61.2
60x20 cm (83,333)			8263	9219	86.5	83.2	234.4	58.0	60.5
50x20 cm (1,00,000)			8468	9409	86.5	78.2	238.7	59.9	61.8
CD at 5%			NS	NS	NS	4.8	NS	0.5	0.7
CV (%)			2.3	3.7	5.1	4.8	2.9	0.6	0.9
200:65:80			8333	9340	79.9	75.4	234.9	58.4	60.7
250:80:100			8398	9288	93.1	86.1	238.3	59.5	61.7
CD at 5%			NS	NS	3.0	3.5	NS	0.9	0.9
CV (%)			2.3	5.1	4.3	5.4	2.0	1.9	1.8
RDF			8283	9232	84.7	78.8	232.3	59.2	61.5
STCR			9151	10143	87.6	81.2	239.7	59.6	62.0
SSNM			7136	7964	83.6	79.6	227.2	57.5	59.6
150%			8892	9918	90.2	83.3	247.1	59.6	61.6
CD at 5%			270.4	437.9	1.8	2.3	3.0	0.8	0.8
CV (%)			3.8	5.6	2.5	3.4	1.5	1.5	1.6

Treatment details:

A. Main plot: Full season maize hybrids
H1: P30V92
H2: NK 6240

B. Sub plot: Planting density
D1: Normal 60x20 cm (83,333)
D2: High 50 cm x 20 cm (1,00,000)

C. Sub-sub plot: Nutrient management ($N:P_2O_5:K_2O$ kg/ha)
N1: RDF (200:60:50)
N2: STCR (265:50:48)
N3: SSNM (141:60:90)
N4: 150% (300:90:75)

Cont…

Hybrids	Density	Nutrient management	Days to maturity	Cob length (cm)	Cob girth (cm)	Grains/ row	1000-seed weight (g)	Net Returns Rs./ha	BC Ratio
P30V92	60x20 cm (83,333)	RDF	98.3	16.2	15.4	35.0	29.3	70860	2.55
		STCR	102.7	17.9	16.0	40.0	34.0	86760	1.89
		SSNM	98.0	16.3	14.5	32.0	28.7	60896	1.47
		150%	103.3	17.7	15.4	39.0	32.7	77498	1.56
	50x20 cm (1,00,000)	RDF	101.3	15.8	15.1	35.0	26.7	74942	1.60
		STCR	107.3	17.3	15.5	39.3	31.7	86443	1.84
		SSNM	101.3	16.0	14.1	33.0	29.3	64542	1.52
		150%	106.7	17.3	15.1	39.0	31.0	81341	1.61
NK 6240	60x20 cm (83,333)	RDF	99.7	16.4	16.0	38.7	31.3	78986	1.72
		STCR	102.0	18.1	16.2	41.3	35.3	91773	2.00
		SSNM	100.0	16.5	14.7	32.0	31.3	64994	1.57
		150%	102.3	17.9	15.1	40.7	36.0	85705	1.72
	50x20 cm (1,00,000)	RDF	100.7	16.1	15.8	36.7	29.7	77748	1.66
		STCR	105.7	17.9	15.9	39.3	33.7	117212	2.50
		SSNM	102.3	16.2	14.9	31.0	30.3	62098	1.47
		150%	109.0	17.7	14.9	38.7	34.0	80145	1.58
Mean of location			102.5	17.0	15.3	36.9	31.6	78871.4	1.77
60x20 cm (83,333)			102.4	16.8	15.1	36.5	30.4	75410	1.76
50x20 cm (1,00,000)			102.7	17.1	15.4	37.3	32.7	82333	1.78
CD at 5%			0.2	0.2	0.1	NS	1.7	NS	NS
CV (%)			0.1	1.1	0.5	3.1	4.4	13.7	12.6
200:65:80			100.8	17.1	15.4	37.3	32.3	77184	1.81
250:80:100			104.3	16.8	15.2	36.5	30.8	80559	1.72
CD at 5%			1.2	0.1	0.1	0.6	0.9	NS	NS
CV (%)			1.4	1.0	0.8	2.2	3.4	15.6	14.8
RDF			100.0	16.1	15.6	36.3	29.3	75634	1.89
STCR			104.4	17.8	15.9	40.0	33.7	95547	2.06
SSNM			100.4	16.3	14.6	32.0	29.9	63133	1.51
150%			105.3	17.7	15.1	39.3	33.4	81172	1.62
CD at 5%			1.5	0.2	0.2	1.3	1.3	11733.2	0.3
CV (%)			1.7	1.1	1.1	4.2	4.9	17.7	16.9

Table 42: Effect of planting density and nutrient management practices on the performance of hybrids in *Kharif* season in Banswara.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	Net returns (Rs./ha)	BC ratio
P-3441	60x20 cm	RDF	4990	7833	82.2	78.6	208.9	49.7	52.7	36666	1.10
		STCR	3921	6133	81.0	76.4	179.7	48.7	52.7	22228	0.68
		SSNM	5877	9171	82.3	89.1	225.4	50.3	53.3	48302	1.42
	50x20 cm	RDF	5632	8582	94.0	89.8	210.7	49.7	53.7	44909	1.32
		STCR	4631	7395	94.1	83.8	192.0	49.7	53.0	31420	0.94
		SSNM	6787	10337	94.6	89.0	217.1	50.3	53.7	60299	1.74
BIO-9681	60x20 cm	RDF	5531	8648	80.2	93.0	220.7	49.7	53.3	44248	1.33
		STCR	4473	6989	80.8	79.8	201.1	48.7	51.0	29955	0.92
		SSNM	6475	9671	79.9	107.0	228.7	51.0	54.0	56676	1.67
	50x20 cm	RDF	6552	10102	89.0	98.6	221.0	50.3	53.3	57794	1.70
		STCR	4934	7573	92.3	89.6	201.7	47.3	51.0	35656	1.07
		SSNM	7696	11033	89.0	105.2	233.7	51.7	54.0	73018	2.10
Mean of location			5625.1	8622.2	86.6	90.0	211.7	49.8	53.0	45097.6	1.33
P-3441			5306	8242	88.0	84.4	205.6	49.7	53.2	40637	1.20
BIO-9681			5944	9003	85.2	95.5	217.8	49.8	52.8	49558	1.47
CD at 5%			85.4	284.0	1.1	8.0	3.3	NS	NS	1195.7	0.0
CV (%)			1.1	2.3	0.9	6.2	1.1	2.9	3.1	1.8	1.8
60x20 cm			5211	8074	81.1	87.3	210.7	49.7	52.8	39679	1.19
50x20 cm			6039	9170	92.2	92.7	212.7	49.8	53.1	50516	1.48
CD at 5%			475.2	848.3	2.5	NS	NS	NS	NS	6653.3	0.2
CV (%)			9.1	10.6	3.1	7.9	2.6	1.6	2.4	15.9	16.3
RDF			5676	8791	86.3	90.0	215.3	49.8	53.3	45905	1.37
STCR			4490	7022	87.0	82.4	193.6	48.6	51.9	29815	0.90
SSNM			6709	10053	86.5	97.6	226.2	50.8	53.8	59574	1.73
CD at 5%			349.5	508.6	NS	4.8	8.0	0.9	0.9	4892.5	0.2
CV (%)			7.2	6.8	3.4	6.1	4.4	2.0	1.9	12.5	12.7

Treatment details:

A. Main plot: Hybrids
H1: P-3441
H2: BIO-9681

B. Sub plot: Density
D1: 60x20 cm
D2: 50x20 cm

C. Sub-sub plot: Nutrient management ($N:P_2O_5:K_2O$ kg/ha)
N1: RDF (120:60:40)
N2: STCR (83:51:52)
N3: SSNM (182:51:57.4)

Table 43: Long term trial on integrated nutrient management in maize- wheat cropping system in Pantnagar.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs (000'/ha)	Plant height (cm)	Ear height (cm)	Days to 50% tasseling	Days to 50% silking	Days to maturity
T_1	3463	6712	77.0	77.6	150.9	52.7	56.3	60.7	109.7
T_2	5178	7853	83.5	84.7	177.2	82.7	51.3	55.0	107.0
T_3	4939	7770	80.8	81.2	170.6	74.8	55.0	55.3	107.3
T_4	4405	7443	79.9	80.3	163.9	64.8	54.0	58.0	108.3
T_5	4568	7590	81.7	82.4	166.7	65.3	59.0	64.0	111.0
T_6	4605	7697	80.8	81.0	167.8	69.9	58.7	64.0	112.0
T_7	5727	8203	84.2	85.3	182.2	84.2	51.3	55.3	107.7
T_8	5301	7997	83.5	84.0	178.3	82.9	52.0	56.7	108.3
T_9	5034	7867	82.4	82.8	172.2	78.5	54.3	61.3	110.7
T_{10}	5467	8083	82.4	83.1	178.9	82.7	52.0	54.7	107.7
T_{11}	3998	7290	81.9	81.9	157.2	58.1	55.7	61.7	111.0
Mean	4789.6	7682.3	81.7	82.2	169.6	72.4	54.5	58.8	109.2
CD	365.7	445.7	3.5	3.1	12.7	7.0	2.4	2.8	2.9
CV (%)	4.5	3.4	2.5	2.2	4.4	5.7	2.6	2.8	1.5
Significance	S	S	S	S	S	S	S	S	S

Treatment	Cob girth (cm)	Grain rows/cob	Grains/ row	100 grain weight (g)	Net return (Rs./ha)	BC ratio	Total uptake (kg/ha)			
							N	P	K	Zn
T_1	12.1	12.1	25.5	26.6	25044	1.12	110.9	13.8	31.0	0.22
T_2	13.6	14.4	37.1	30.3	43443	1.60	261.3	22.6	57.1	0.35
T_3	13.5	14.3	35.9	29.4	41432	1.59	245.1	20.0	57.0	0.46
T_4	13.0	13.5	31.6	28.0	35409	1.43	192.7	15.5	47.4	0.33
T_5	13.3	13.4	31.7	28.2	32346	1.08	210.0	16.1	50.8	0.34
T_6	13.2	13.9	33.3	29.4	79506	2.48	225.7	18.4	57.9	0.34
T_7	13.9	14.8	38.9	31.2	47183	1.52	292.9	28.5	79.6	0.42
T_8	13.6	14.4	37.6	30.5	42619	1.43	263.5	23.3	68.7	0.38
T_9	13.7	14.3	36.4	29.9	40226	1.41	252.9	19.6	63.0	0.35
T_{10}	13.8	14.6	38.2	30.7	46585	1.67	270.6	25.8	64.1	0.46
T_{11}	12.4	12.6	29.2	27.2	28593	1.10	144.0	14.3	39.0	0.30
Mean	13.3	13.8	34.1	29.2	42035.1	1.50	224.5	19.8	56.0	0.4
CD	0.8	0.7	3.6	3.9	5274.9	0.19	11.4	1.1	3.0	0.0
CV (%)	3.6	3.0	6.2	7.8	7.4	7.4	3.0	3.2	3.1	4.0
Significance	S	S	S	NS	S	S	S	S	S	S

Treatment details:

T_1 Unmanured
T_2 100% RDF
T_3 75% RDF
T_4 50% RDF
T_5 FYM 10t/ha + Azotobactor
T_6 Maize + cowpea with FYM 10 t.ha + azotobactor
T_7 100% RDF + 5 t/ha FYM
T_8 75% RDF + 5 t/ha FYM
T_9 50% RDF + 5 t/ha FYM
T_{10} 100% RDF + 5 kg Zn/ha
T_{11} FYM 5 t/ha (state practice)

Treatment	pH	Electrical conductivity (dS/m)	Organic C (%)	Available (kg/ha)			Cont… Zn (Mg/kg)
				N	P	K	
T_1	7.1	0.133	0.713	174.9	18.3	147.5	0.35
T_2	7.2	0.153	0.917	183.8	27.0	157.3	0.47
T_3	7.1	0.137	0.863	178.5	24.6	154.8	0.46
T_4	7.1	0.127	0.807	168.8	21.9	152.7	0.43
T_5	6.9	0.100	1.113	173.2	23.5	153.6	0.44
T_6	6.9	0.087	1.153	186.4	23.8	154.7	0.45
T_7	6.9	0.120	1.070	198.2	30.7	164.7	0.48
T_8	7.0	0.113	1.023	193.4	28.1	161.5	0.46
T_9	6.9	0.093	0.987	181.6	25.2	155.8	0.43
T_{10}	7.0	0.137	0.857	187.5	26.8	157.0	0.54
T_{11}	6.8	0.097	0.830	165.6	20.5	153.0	0.42
Mean	7.0	0.118	0.939	181.1	24.6	155.7	0.45
CD	0.1	0.016	0.058	10.3	3.1	10.7	0.03
CV (%)	1.0	7.9	3.6	3.4	7.4	4.1	3.6
Significance	S	S	S	S	S	NS	S

Treatment	Narrow leaves weeds/m^2	Broad leaves/m^2	Sedges/m^2	Narrow leaves wt. (g)/m^2	Broad leaves wt. (g)/m^2	Sedges wt. (g)/m^2
T_1	48.7	6.00	7.00	287.6	11.5	2.2
T_2	45.0	4.67	0.00	260.9	8.0	0.0
T_3	31.7	2.83	0.00	193.9	16.0	0.0
T_4	35.0	2.37	5.00	238.1	11.0	0.0
T_5	36.3	3.03	15.00	347.7	11.5	5.2
T_6	29.7	3.40	0.00	189.8	20.3	0.0
T_7	37.3	7.17	0.00	330.5	10.8	0.0
T_8	36.7	3.17	0.00	292.5	6.3	0.0
T_9	32.3	1.47	0.00	234.1	5.0	0.0
T_{10}	43.3	3.67	0.00	268.4	8.3	0.0
T_{11}	50.3	1.33	9.00	332.5	2.3	3.3
Mean	38.8	3.55	3.27	270.6	10.1	1.0
CD	3.6	0.96	1.04	24.2	2.2	0.3
CV (%)	5.4	15.8	18.7	5.3	12.5	17.7
Significance	S	S	S	S	S	S

Table 44: Weed management in maize systems in Bajaura.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha) 25 DAS	Plants ('000/ha) AH	Cobs ('000/ha)	Plant height (cm)	100-seed weight (g)	Net returns (Rs./ha)	BC ratio
T_1	3039	6173	80.3	71.3	60.7	158.1	22.0	7593	1.2
T_2	6494	6944	82.7	79.0	70.3	188.9	25.3	43667	2.1
T_3	4126	5122	81.3	77.7	69.0	162.0	24.7	17792	1.5
T_4	5310	5376	82.0	79.7	71.7	186.8	26.0	32036	1.9
T_5	3981	4503	79.7	75.0	65.0	173.9	24.7	14536	1.4
T_6	3201	4012	77.3	68.3	58.7	151.8	24.0	2389	1.0
T_7	3956	4837	77.7	72.7	63.3	160.4	24.7	10100	1.2
T_8	4899	5144	81.3	79.7	70.0	180.1	24.0	24287	1.6
T_9	7087	6622	83.0	81.0	75.0	201.3	25.3	53076	2.4
T_{10}	7041	6272	81.0	80.7	72.7	193.2	22.7	48898	2.2
Mean	4913.3	5500.5	80.6	76.5	67.6	175.6	24.3	25437.3	1.7
CD	845.3	1221.8	4.1	6.2	7.9	14.1	3.3	10296.1	0.3
CV (%)	10.0	12.9	3.0	4.7	6.8	4.7	8.0	23.6	10.4
Significance	S	S	NS	S	S	S	NS	S	S

Treatments	Barrenness (%)	Grassy weeds (m^{-2})		Broad leaves weeds (m^{-2})		Grassy weeds (g/m^2)		Broad leaves weeds (g/m^2)	
		At 50 DAS	At harvest	At 50 DAS	At harvest	At 50 DAS	At harvest	At 50 DAS	At harvest
T_1	15.5	173.0	71.0	4.3	11.7	170.7	329.3	4.0	50.0
T_2	8.0	0.0	18.0	0.0	34.7	0.0	10.7	0.0	6.7
T_3	11.6	145.0	55.7	2.3	8.0	164.0	214.7	2.0	22.7
T_4	9.6	40.3	20.0	25.0	30.0	52.3	38.7	37.3	160.0
T_5	13.7	193.7	55.0	0.0	0.0	168.7	236.0	0.0	0.0
T_6	14.1	190.3	62.3	0.0	3.0	178.0	344.0	0.0	2.7
T_7	12.3	155.0	45.7	0.0	0.0	208.7	222.7	0.0	0.0
T_8	12.6	50.3	46.0	16.0	26.7	30.7	88.0	13.3	57.3
T_9	6.8	41.7	29.0	0.0	0.0	56.0	106.7	0.0	0.0
T_{10}	10.0	56.0	45.0	6.7	23.7	53.3	124.0	5.3	61.3
Mean	11.4	104.5	44.8	5.4	13.8	108.2	171.5	6.2	36.1
CD	5.3	51.8	24.4	14.2	11.6	39.7	100.9	21.2	45.2
CV (%)	27.1	28.9	31.8	152.5	49.1	21.4	34.3	199.2	73.1
Significance	NS	S	S	S	S	S	S	S	S

Treatment details:

T_1 Control (weedy check)
T_2 Weed free
T_3 Atrazine @ 1.5* kg a.i./ha as pre-emergence
T_4 Atrazine (750 g a.i./ha) + Pendimethalin (750 ml a.i./ha) as pre-emergence
T_5 Atrazine (1.50 kg a.i./ha) pre-emergence fb 2,4-D Amine (400 ml a.i./ha) at 25 DAS as PoE
T_6 Halosulfuron @ 90 g/ha at 25 DAS
T_7 Atrazine (1.5 kg a.i./ha) pre-emergence fb Halosulfuron (90 g/ha) at 25 DAS as PoE
T_8 Tembotrione (120 ml a.i./ha) at 25 DAS as PoE
T_9 Pendimethalin (1000 ml a.i./ha) pre-emergence fb Atrazine (750 g a.i. /ha) + 2,4-D Amine (400 ml a.i./ha) at 25 DAS as PoE
T_{10} Atrazine (1.5 kg a.i./ha) pre-emergence fb Tembotrione (120 ml a.i./ha) at 25 DAS as PoE

Table 45: Weed management in maize systems in Imphal.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Days 50% tasseling	Days to 50% silking	Days to 80% maturity	Cob length (cm)	Cob girth (cm)
T_1	5346	11013	83.3	244.7	49.7	51.7	97.7	14.7	13.7
T_2	7425	15202	81.0	246.3	49.3	51.7	97.7	15.8	13.7
T_3	6351	13228	83.0	240.9	50.3	52.7	98.0	16.0	13.5
T_4	5729	11657	82.2	237.9	51.3	53.7	99.0	15.7	13.3
T_5	8165	14882	82.5	246.9	48.3	50.3	96.7	17.6	14.2
T_6	5273	11035	83.3	247.5	51.3	53.7	99.3	15.6	13.2
T_7	6614	13243	83.6	248.8	49.7	52.3	98.3	15.8	13.9
T_8	6726	13356	81.9	247.9	50.7	52.0	98.0	16.5	13.7
T_9	6636	12363	83.3	236.6	51.0	53.0	99.3	18.7	14.1
T_{10}	6439	13038	83.3	235.2	48.3	50.3	96.7	15.1	13.2
Mean	6470.4	12901.7	82.8	243.3	50.0	52.1	98.1	16.1	13.7
CD	1234.4	2139.8	5.6	14.0	1.9	1.9	1.8	2.3	1.1
CV (%)	11.1	9.7	3.9	3.3	2.2	2.1	1.1	8.3	4.6
Significance	S	S	NS	NS	S	S	S	NS	NS

Treatments	Grains/row	Grain rows/cob	Grains/cob	100-seed weight (g)	Shelling (%)	Grassy weeds m^2 at 50 DAS	Broad leaves weeds m^2 at 50 DAS
T_1	26.9	13.7	371.1	29.1	69.7	53.0	111.0
T_2	30.2	13.1	400.8	29.5	74.3	0.0	0.0
T_3	32.0	12.7	405.8	29.5	71.9	21.0	11.7
T_4	29.5	13.6	404.0	30.1	72.9	20.0	14.3
T_5	33.3	14.3	472.3	29.3	81.3	27.0	4.7
T_6	26.7	13.5	356.9	29.9	69.1	24.3	36.3
T_7	28.5	14.3	409.5	28.7	75.3	16.0	15.0
T_8	30.7	12.7	385.9	29.0	73.4	28.7	58.0
T_9	37.7	13.1	494.9	29.0	78.7	7.0	3.7
T_{10}	27.4	13.1	359.1	28.4	73.2	11.0	4.7
Mean	30.3	13.4	406.0	29.2	74.0	20.8	25.9
CD	4.0	1.1	72.2	1.4	9.0	11.3	16.8
CV (%)	7.8	4.9	10.4	2.7	7.1	31.8	37.8
Significance	S	NS	S	NS	NS	S	S

Table 46: Weed management in maize systems in Srinagar.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	100-seed weight (g)	Net returns (Rs./ha)	BC ratio	Barrenness in maize (%)
T_1	3762	9156	82.6	66.3	161.3	81.0	86.0	20.8	55513	0.6	30.4
T_2	7062	15330	82.7	100.9	225.7	90.0	94.0	25.4	112221	2.4	10.0
T_3	5551	12892	82.6	89.5	227.3	86.3	90.3	24.9	115516	2.5	10.6
T_4	6065	13749	82.5	96.2	243.0	85.3	90.3	25.3	132458	2.7	10.4
T_5	6129	14334	82.8	97.9	240.3	89.3	94.0	25.0	136707	2.8	12.0
T_6	5594	12888	82.7	91.9	243.7	90.3	95.0	25.3	121617	2.6	10.6
T_7	6449	14361	82.9	99.4	250.3	87.0	88.7	25.4	142253	2.8	10.9
T_8	5144	12622	82.7	88.4	221.3	87.3	93.3	25.5	116849	2.5	11.1
T_9	5677	13055	82.7	96.1	227.7	86.0	92.3	25.0	125692	2.8	11.5
T_{10}	6327	14131	82.4	98.3	235.3	87.3	92.3	25.5	137683	2.7	11.3
Mean	5776.0	13251.8	82.7	92.5	227.6	87.0	91.6	24.8	119651.0	2.4	12.9
CD	343.1	571.9	0.6	2.0	10.4	2.7	3.8	1.3	4288.3	0.2	1.8
CV (%)	3.5	2.5	0.5	1.3	2.7	1.8	2.4	3.1	2.1	3.9	8.0
Significance	S	S	NS	S	S	S	S	S	S	S	S

Treatments	Grassy weeds (m^2)	Grassy, weeds (m^2)	Broad leaves weeds (m^2)	Broad leaves weeds (m^2)	Sedges (m^2)	Grassy weeds (g/m^2)	Grassy weeds (g/m^2)	Broad leaves weeds (g/m^2)	Broad leaves weeds (g/m^2)	Sedges (g/m^2)
	At 50 DAS	At harvest	At 50 DAS	At harvest	At harvest	At 50 DAS	At harvest	At 50 DAS	At harvest	At harvest
T_1	84.1	70.8	85.1	73.7	1.3	31.6	21.7	43.5	14.8	0.7
T_2	3.7	1.8	2.8	1.3	0.3	1.5	0.8	1.1	0.5	0.0
T_3	21.2	15.2	15.8	10.7	1.0	10.6	8.5	9.9	3.0	0.7
T_4	16.4	9.2	11.8	6.7	1.0	3.6	2.9	4.9	2.1	0.3
T_5	12.7	8.8	8.8	3.7	0.3	6.1	3.4	3.2	1.3	0.3
T_6	20.6	12.8	14.8	8.0	1.0	10.4	6.6	7.5	2.6	0.7
T_7	10.4	6.5	4.5	2.0	0.7	3.8	2.0	1.9	0.6	0.3
T_8	26.4	14.8	17.1	10.3	0.3	10.3	8.2	8.8	3.0	0.7
T_9	18.7	11.8	13.8	6.0	1.7	7.1	4.8	6.1	2.2	0.0
T_{10}	11.5	9.8	5.6	3.0	0.7	4.6	1.7	2.7	1.1	0.7
Mean	22.6	16.2	18.0	12.5	0.8	9.0	6.1	9.0	3.1	0.4
CD	3.3	2.8	3.2	2.5	1.0	1.8	1.6	1.4	1.5	0.9
CV (%)	8.6	10.0	10.3	11.6	71.6	11.8	15.4	9.1	28.6	122.4
Significance	S	S	S	S	NS	S	S	S	S	NS

Table 47: Weed management in maize hybrids in Udhampur.

Treatment	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha) at 25 DAS	Plants ('000/ha) AH	Net returns (Rs./ha)	BC ratio	Sedges/m²		Dry weight of sedges/m²	
							A 50 DAS	At harvest	A 50 DAS	At harvest
T_1	2042	2365	47.7	43.7	5123	0.16	21.7	34.3	14.1	25.6
T_2	4602	5913	62.7	60.7	36761	0.90	0.0	0.0	0.0	0.0
T_3	3434	4246	54.3	53.0	22364	0.63	10.3	15.3	7.5	11.4
T_4	3882	4751	58.7	56.7	29859	0.83	8.7	6.7	2.9	4.8
T_5	3874	4638	54.7	53.7	29404	0.82	7.7	11.0	4.9	8.1
T_6	3867	4603	53.7	51.7	28049	0.76	10.0	13.3	5.5	9.9
T_7	4574	5054	62.0	60.0	39514	1.05	3.7	5.0	2.0	3.8
T_8	3729	4489	60.7	57.7	24453	0.64	7.7	14.7	6.4	11.0
T_9	3878	4703	60.0	58.0	29303	0.80	4.7	7.0	5.1	5.2
T_{10}	3939	4989	59.7	58.3	26303	0.66	3.3	5.7	2.4	4.0
Mean	3782.2	4574.9	57.4	55.3	27113.2	0.72	7.8	11.3	5.1	8.4
CD	413.8	297.4	4.9	4.8	2533.0	0.07	2.8	3.3	1.6	2.5
CV (%)	6.4	3.8	4.9	5.0	5.4	5.41	20.8	17.3	18.2	17.2
Significance	S	S	S	S	S	S	S	S	S	S

Treatment	Grasses/m²		Dry weight of grasses/m²		Broad leaved weeds/m²		Dry weight of broad leaved weeds/m²	
	A 50 DAS	At harvest	A 50 DAS	At harvest	A 50 DAS	At harvest	A 50 DAS	At harvest
T_1	28.0	32.3	24.9	32.6	17.3	21.7	19.2	29.3
T_2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T_3	7.3	10.0	7.8	10.5	8.7	11.0	7.9	11.1
T_4	6.0	6.7	5.6	4.8	6.7	8.7	5.8	8.4
T_5	5.3	7.3	5.0	7.3	6.0	8.3	6.6	9.5
T_6	7.0	9.3	6.5	9.2	7.7	9.0	6.5	9.8
T_7	2.7	4.0	2.5	3.4	1.7	4.3	1.2	3.9
T_8	5.7	10.3	5.1	10.2	7.0	9.0	7.0	10.5
T_9	3.0	4.7	2.9	7.0	7.3	9.0	6.3	8.8
T_{10}	2.0	3.7	2.5	4.3	2.3	4.3	2.0	5.0
Mean	6.7	8.8	6.3	8.9	6.5	8.5	6.3	9.6
CD	2.1	2.6	2.0	2.9	2.7	2.7	2.1	3.0
CV (%)	18.2	16.8	18.8	18.9	24.2	18.7	19.1	18.1
Significance	S	S	S	S	S	S	S	S

Table 48: Weed management in maize systems in Karnal.

Treatments	Grain yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	Net returns (Rs. /ha)	BC ratio
T_1	3784	68.8	46.7	133.3	56.3	58.3	27447	1.9
T_2	6330	68.9	78.2	163.0	55.3	57.3	47597	2.0
T_3	5284	68.9	65.2	155.0	55.7	57.7	47962	2.4
T_4	5337	68.4	65.9	154.3	55.0	57.0	48040	2.4
T_5	5153	69.2	63.6	153.7	56.3	58.3	46224	2.4
T_6	6115	68.6	75.5	155.7	55.0	57.0	58463	2.5
T_7	6249	69.0	77.2	160.0	55.7	57.7	59441	2.5
T_8	6315	68.8	78.0	158.3	56.3	58.3	63984	2.8
T_9	5465	69.5	67.5	155.0	55.7	57.7	51066	2.5
T_{10}	6301	69.3	77.8	161.3	56.3	58.3	62760	2.7
Mean	5633.3	68.9	69.5	155.0	55.8	57.8	51298.4	2.4
CD	308.2	2.5	3.8	8.1	1.2	1.2	4577.4	0.1
CV (%)	3.2	2.1	3.2	3.0	1.2	1.2	5.2	3.1
Significance	S	NS	S	S	NS	NS	S	S

Treatments	Grassy weeds m^2 at 50 DAS	Broad leaves weeds m^2 at 50 DAS	Sedges m^2 at 50 DAS	Grassy weeds g/m^2 at 50 DAS	Broad leaves weeds g/m^2 at 50 DAS	Sedges g/m^2 at harvest
T_1	13.3	15.3	125.9	83.6	2.6	7.8
T_2	0.0	0.0	0.0	0.0	0.0	0.0
T_3	5.1	10.0	117.5	32.1	1.7	7.3
T_4	6.4	9.7	119.4	40.2	1.6	7.4
T_5	4.9	6.0	120.3	31.1	1.0	7.5
T_6	13.3	9.3	4.5	83.8	1.6	0.3
T_7	5.9	8.7	4.6	37.3	1.5	0.3
T_8	1.9	6.4	36.3	11.8	1.1	2.2
T_9	8.0	6.2	119.9	50.5	1.1	7.4
T_{10}	1.4	6.8	35.5	8.9	1.2	2.2
Mean	6.0	7.8	68.4	37.9	1.3	4.2
CD	1.3	3.7	7.0	8.5	0.6	0.4
CV (%)	13.1	27.5	5.9	13.1	27.5	5.9
Significance	S	S	S	S	S	S

Table 49: Weed management in maize systems in Ludhiana.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha) 25 DAS	Plants ('000/ha) AH	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	Net returns (Rs/ha)	BC ratio
T_1	3660	5817	80.6	73.1	70.8	161.3	61.7	64.3	14867	0.4
T_2	6711	13019	82.6	82.2	81.5	215.3	59.7	61.0	58543	1.3
T_3	4692	8352	79.9	78.7	74.8	198.3	60.0	61.7	30631	0.8
T_4	6088	11690	81.7	80.3	79.2	205.3	60.7	62.7	52501	1.3
T_5	5192	9553	81.3	79.2	77.1	194.0	60.7	62.3	38522	1.0
T_6	4843	8475	80.3	74.5	74.5	180.3	61.0	63.3	30278	0.7
T_7	5896	11083	81.7	78.2	77.8	183.3	61.3	63.7	46393	1.1
T_8	5738	10100	80.8	78.7	77.5	197.7	59.7	61.7	42692	1.0
T_9	6380	12377	81.9	81.3	80.8	201.7	60.0	61.3	56681	1.4
T_{10}	6336	12229	82.2	81.5	80.6	202.3	59.7	61.0	52285	1.2
Mean	5553.5	10269.4	81.3	78.8	77.5	194.0	60.4	62.3	42339.3	1.0
CD	844.0	1567.8	2.7	3.8	4.4	27.2	2.2	1.8	12748.9	0.3
CV (%)	8.9	8.9	1.9	2.8	3.3	8.2	2.1	1.7	17.6	17.6
Significance	S	S	NS	S	S	S	NS	S	S	S

Treatments	No. of weeds/m² at 50 DAS			Dry weight of weeds g/m² at 50 DAS			No. of weeds/m² at harvest			Dry weight of weeds g/m² at harvest		
	Grasses weed	Broadleaf	Sedges	Grasses weed	Broadleaf	Sedges	Grasses weed	Broadleaf	Sedges	Grasses weed	Broadleaf	Sedges
T_1	62.0	32.0	53.0	20.5	20.9	18.1	64.7	29.7	45.3	25.0	22.7	22.7
T_2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T_3	18.7	16.0	24.7	6.0	12.3	10.1	24.3	15.0	23.0	11.3	19.3	14.3
T_4	16.0	11.7	20.7	4.3	10.4	9.5	22.3	10.0	19.0	9.1	18.2	13.7
T_5	17.3	10.7	8.7	3.5	9.3	7.5	24.3	9.0	7.3	9.2	17.2	10.9
T_6	9.3	8.0	10.3	1.5	5.0	6.9	16.7	7.0	8.7	6.2	13.2	10.4
T_7	7.0	7.0	8.3	1.3	4.5	6.4	13.7	6.0	7.7	6.2	12.2	10.2
T_8	18.0	6.3	8.7	2.3	5.1	8.6	22.3	5.0	7.3	6.4	11.6	11.6
T_9	8.3	6.0	12.3	2.6	4.7	10.4	14.3	5.7	11.3	7.0	11.9	13.6
T_{10}	9.0	5.0	7.7	1.7	3.3	7.1	17.0	5.3	6.7	6.6	11.0	9.9
Mean	16.6	10.3	15.4	4.4	7.6	8.4	22.0	9.3	13.6	8.7	13.7	11.7
CD	6.4	4.8	3.9	2.1	3.6	2.3	5.5	2.1	2.7	2.0	2.3	2.6
CV (%)	22.4	27.4	14.7	28.2	27.6	15.6	14.7	13.2	11.6	13.5	9.9	12.9
Significance	S	S	S	S	S	S	S	S	S	S	S	S

Table 50: Weed management in maize systems in Pantnagar.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha) at 25 DAS	Plants ('000/ ha) AH	Cobs ('000/ ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	Cob length (cm)	Cob girth (cm)	100-seed weight (g)	Net returns (Rs./ha)	BC ratio
T_1	3328	5565	63.7	55.3	45.9	168.2	60.0	62.7	12.7	12.2	24.2	23572	1.1
T_2	6526	8272	65.2	62.7	63.7	192.5	59.3	61.7	15.6	13.9	27.9	52828	1.5
T_3	5531	6815	66.2	64.7	65.7	189.9	59.0	61.7	14.7	13.6	26.4	51965	2.2
T_4	5639	7896	66.2	63.7	64.2	191.8	58.7	62.0	14.4	13.6	26.6	52865	2.2
T_5	5835	7852	66.2	66.2	67.7	188.6	58.7	61.3	15.1	13.6	27.0	55445	2.3
T_6	4111	6247	63.7	62.7	61.7	174.3	59.7	62.3	13.2	13.0	25.2	29165	1.1
T_7	5648	7506	64.2	63.7	65.7	190.2	59.0	62.0	14.6	13.4	26.5	48456	1.7
T_8	5584	7141	65.2	64.2	65.2	185.6	59.0	62.0	14.7	13.2	26.6	49888	1.9
T_9	5733	7807	64.7	63.7	65.2	190.1	59.3	62.0	15.3	13.3	27.3	53081	2.1
T_{10}	6425	8020	65.2	62.2	64.2	189.7	59.3	62.0	15.2	13.7	27.5	59698	2.1
Mean	5435.9	7312.1	65.0	62.9	62.9	186.1	59.2	62.0	14.6	13.3	26.5	47696.2	1.8
CD	958.4	1090.4	2.5	4.6	6.1	12.4	1.9	1.9	1.8	0.9	1.2	13082.6	0.5
CV (%)	10.3	8.7	2.2	4.3	5.7	3.9	1.8	1.7	7.1	3.9	2.6	16.0	16.5
Significance	S	S	NS	S	S	S	NS	NS	NS	NS	S	S	S

Treatments	Grassy weeds m^2 at 50 DAS	Grassy, weeds m^2 AH	Broad leaves weeds m^2 at 50 DAS	Broad leaves weeds m2 AH	Sedges m^2 at 50 DAS	Sedges m^2 at harvest	Grassy weeds g/m^2 at 50 DAS	Grassy weeds g/m^2 AH	Broad leaves weeds g/m^2 at 50 DAS	Broad leaves weeds g/m^2 AH	Sedges g/m^2 at 50 DAS	Sedges g/m^2 AH
T_1	101.0	74.7	28.0	13.0	18.3	0.0	234.7	278.7	62.3	34.7	31.0	0.0
T_2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T_3	51.3	76.3	0.0	0.0	51.0	35.7	104.7	150.7	0.0	0.0	78.7	58.7
T_4	28.3	58.7	3.3	1.7	179.0	31.0	64.3	142.7	8.7	0.0	113.3	31.3
T_5	38.3	80.3	0.0	0.0	45.0	5.7	93.0	273.0	0.0	0.0	32.7	6.7
T_6	98.3	66.0	0.0	0.0	0.0	0.0	226.0	257.3	0.0	0.0	0.0	0.0
T_7	68.7	61.7	0.0	0.0	18.3	0.0	141.3	235.3	0.0	0.0	14.3	0.0
T_8	2.7	28.3	28.0	40.7	51.0	32.7	8.0	90.7	44.7	54.7	46.7	46.0
T_9	68.7	66.0	0.0	0.0	24.3	0.0	151.0	222.7	0.0	0.0	29.0	0.0
T_{10}	0.0	0.0	2.3	0.0	61.7	36.7	0.0	0.0	6.7	0.0	44.0	28.0
Mean	45.7	51.2	6.2	5.5	44.9	14.2	102.3	165.1	12.2	8.9	39.0	17.1
CD	35.0	38.4	7.7	9.4	49.1	54.1	75.4	144.2	21.8	7.7	47.6	60.1
CV (%)	44.6	43.8	72.6	99.4	63.8	222.6	43.0	50.9	103.7	50.3	71.2	205.1
Significance	S	S	S	S	S	NS	S	S	S	S	S	NS

Table 51: Weed management in maize system in Bahraich.

Treatments	Grain yield (kg/ha)	Cobs yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha) at 25 DAS	Cobs ('000/ ha)	System productivity as maize equivalent	Net return (Rs./ha)	BC ratio	N uptake (kg/ha)	P uptake (kg/ha)	K uptake (kg/ha)
T_1	1964	2850	3137	82.9	82.8	2188	8637	1.6	49.1	18.6	40.9
T_2	4645	6620	5744	83.0	82.9	5055	45770	2.8	114.7	42.9	94.9
T_3	4471	6308	5432	83.0	82.9	4859	44021	2.8	109.5	41.7	91.0
T_4	4572	6352	5518	82.9	82.8	4966	45029	2.8	112.6	42.1	92.7
T_5	4618	6406	5633	82.9	82.8	5022	45808	2.9	114.6	42.4	93.6
T_6	4318	5986	5370	82.9	82.9	4702	40223	2.6	106.6	40.1	87.0
T_7	5248	7253	6227	82.9	82.9	5692	53693	3.1	127.2	47.9	105.6
T_8	4487	6255	5405	82.9	82.8	4873	42717	2.7	110.9	40.9	90.8
T_9	4558	6348	5530	82.9	82.8	4952	43833	2.7	112.6	42.1	92.0
T_{10}	4661	6483	5664	82.9	82.9	5065	44915	2.7	115.3	42.9	94.4
Mean	4354.1	6086.1	5366.0	82.9	82.9	4737.5	41464.5	2.7	107.3	40.2	88.3
CD	19.1	31.1	24.9	0.0	0.0	20.5	287.6	0.2	1.6	0.7	0.7
CV (%)	0.3	0.3	0.3	0.0	0.0	0.3	0.4	4.5	0.9	1.0	0.4
Significance	S	S	S	S	S	S	S	S	S	S	S

Table 52: Weed management in maize systems in Bhubaneswar.

Treatment	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha) 25 DAS	Plants ('000/ ha) AH	Plant height (cm)	Days to 50% silking	Days to maturity	100 grain weight (g)	Net return (Rs./ha)	BC ratio
T_1	4488	5906	16226	62.4	62.2	149.3	50.0	106.0	22.8	46187	1.57
T_2	6471	8198	22636	63.7	63.4	179.1	52.0	109.0	26.2	71371	1.93
T_3	5849	7518	21096	62.7	62.5	177.3	51.3	106.0	26.4	68031	2.23
T_4	6998	8652	23848	64.9	64.7	181.3	51.0	106.3	28.9	84753	2.66
T_5	6264	8437	23242	64.4	64.2	176.3	51.0	108.0	26.4	75429	2.45
T_6	4774	6239	19708	62.7	62.5	177.3	52.0	106.0	25.0	47989	1.37
T_7	6095	8009	21669	63.6	63.4	179.3	50.0	107.0	26.5	66894	1.88
T_8	5031	6467	20705	63.0	62.8	175.7	51.0	108.0	25.7	53867	1.61
T_9	6574	7951	21923	64.6	64.4	175.3	51.3	107.0	27.5	76373	2.34
T_{10}	6739	8493	22368	64.4	64.2	177.3	50.0	106.0	27.5	77604	2.28
Mean	5928.2	7586.7	21342.0	63.7	63.4	174.8	51.0	106.9	26.3	66849.8	2.03
CD	514.4	1423.5	2638.2	1.6	1.5	6.3	1.8	2.0	2.3	6973.0	0.21
CV (%)	5.1	10.9	7.2	1.4	1.4	2.1	2.1	1.1	5.2	6.1	6.0
Significance	S	S	S	S	S	S	NS	S	S	S	S

Treatment	No of BLW /m² at 50 DAS	No. of grassy weeds /m² at 50 DAS	No. of sedges/m² at 50 DAS	No of BLW/m² at Harvest	No of grassy weeds/m² at harvest	No of sedges /m² at Harvest	Weed dry matter (g /m²) of BLW at harvest	Weed dry matter (g /m²) of grassy weeds at harvest	Weed dry matter (g /m²) of BLW at harvest
T_1	841.3	209.3	34.7	882.7	72.0	8.0	9.1	3.5	9.1
T_2	4.0	20.0	1.3	90.7	6.7	1.3	2.6	0.2	2.6
T_3	584.0	121.3	14.7	525.3	24.0	2.7	6.0	1.3	6.0
T_4	157.3	36.0	8.0	318.7	18.7	2.7	4.7	0.4	4.7
T_5	24.7	74.7	1.3	165.3	14.0	1.3	3.3	0.5	3.3
T_6	762.7	125.3	0.0	826.7	40.0	0.0	8.4	2.5	8.4
T_7	530.7	80.0	0.0	636.0	17.3	0.0	5.7	1.0	5.7
T_8	744.0	65.3	0.0	766.7	14.7	1.3	8.1	0.8	8.1
T_9	17.3	50.7	4.0	124.0	16.0	4.0	3.8	0.8	3.8
T_{10}	481.3	42.7	1.3	442.7	16.0	0.0	5.8	0.4	5.8
Mean	414.7	82.5	6.5	477.9	23.9	2.1	5.7	1.1	5.7
CD	271.1	67.7	15.4	432.2	26.4	4.9	5.4	1.8	5.4
CV (%)	38.1	47.8	137.3	52.7	64.2	134.5	55.0	92.4	55.0
Significance	S	S	S	S	S	NS	NS	S	NS

Table 53: Weed management in maize systems in Chitrakoot.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ha)	Plant height (cm)	100-seed weight (g)	Net returns (Rs./ha)	BC ratio
T_1	3383	8214	74.0	76.3	236.6	22.5	89811	5.5
T_2	4384	9756	79.6	100.5	242.8	23.4	114272	5.2
T_3	4107	8737	74.1	86.0	242.8	23.9	110844	6.3
T_4	4116	8764	70.3	83.3	235.5	22.4	110287	6.0
T_5	4179	9427	73.1	96.6	248.8	24.3	113044	6.2
T_6	3422	8528	66.6	83.3	227.9	23.2	71362	2.8
T_7	4030	9098	72.2	87.8	239.2	23.1	100806	4.5
T_8	4093	9265	75.0	88.1	242.7	24.0	92237	3.3
T_9	4050	8576	76.8	99.3	240.6	22.3	107111	5.7
T_{10}	4572	9657	76.8	86.6	244.1	23.0	121088	5.7
Mean	4033.6	9002.1	73.9	88.8	240.1	23.2	103086.1	5.1
CD	365.3	898.2	8.2	14.3	23.5	1.1	10951.1	0.5
CV (%)	5.3	5.8	6.4	9.4	5.7	2.8	6.2	5.3
Significance	S	S	NS	S	NS	S	S	S

Treatments	Weeds population/m^2 at 50 DAS	Weeds dry matter (g/m^2) at 50 DAS	Weeds matter (g/m^2) at harvest
T_1	173.8	66.6	24.6
T_2	10.1	3.5	3.7
T_3	33.3	12.1	5.4
T_4	25.8	13.0	7.7
T_5	28.0	11.9	5.7
T_6	41.8	24.1	7.2
T_7	17.6	6.7	4.8
T_8	66.7	30.2	6.0
T_9	23.9	8.8	4.1
T_{10}	22.5	6.4	6.3
Mean	44.3	18.3	7.5
CD	16.8	14.4	4.8
CV (%)	22.0	45.9	36.9
Significance	S	S	S

Table 54: Weed management in maize systems in Dholi.

Treatments	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Ear height (cm)
T_1	5202	6756	7000	98.2	97.1	171.9	75.0
T_2	6644	8667	5933	99.3	100.7	380.0	87.3
T_3	6449	8462	5156	96.0	94.7	166.7	71.7
T_4	5386	7058	3644	95.6	94.7	166.0	75.7
T_5	5901	7680	4800	96.9	96.7	169.0	74.3
T_6	5528	7182	8389	97.3	96.2	167.3	67.0
T_7	6306	8284	6656	96.4	95.3	178.3	91.7
T_8	5291	6933	7000	98.7	97.6	177.3	85.7
T_9	6201	8124	5933	97.1	96.2	171.7	78.3
T_{10}	5664	7342	6656	96.4	95.3	178.3	80.0
Mean	5857.1	7648.9	6116.7	97.2	96.4	192.7	78.7
CD	253.9	289.2	2190.8	3.1	3.2	193.6	13.6
CV (%)	2.5	2.2	20.9	1.9	1.9	58.6	10.1
Significance	S	S	S	NS	S	NS	S

Treatments	Days of 50% tasseling	Days of 50% silking	Days of maturity	Cob length (cm)	Cob girth (cm)	Moisture (%)	Net return (Rs./ha)	BC Ratio
T_1	54.3	57.3	91.0	15.7	11.7	18.2	15141	0.24
T_2	53.7	56.7	91.7	15.0	13.0	18.5	36765	0.58
T_3	54.3	57.3	90.3	14.3	11.7	19.0	33852	0.54
T_4	54.7	57.3	92.0	14.0	11.3	18.9	17895	0.28
T_5	54.7	58.3	91.7	13.3	14.7	18.3	25623	0.41
T_6	55.3	58.3	92.0	15.7	12.3	18.2	20033	0.32
T_7	54.0	57.7	91.7	15.0	11.7	19.1	31693	0.50
T_8	54.0	58.0	91.0	16.7	13.0	18.9	16473	0.26
T_9	55.3	58.3	90.0	14.0	11.7	18.9	30122	0.48
T_{10}	54.0	56.3	90.7	13.3	10.3	18.0	22070	0.35
Mean	54.4	57.6	91.2	14.7	12.1	18.6	24966.8	0.40
CD	2.6	2.6	2.4	3.2	2.7	1.3	3808.5	0.06
CV (%)	2.8	2.6	1.5	12.8	12.8	4.2	8.9	8.9
Significance	NS	NS	NS	NS	NS	NS	S	S

Table 55: Weed Management in Maize system in Kalyani.

Treatment	Maize grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha) 25 DAS	Plants ('000/ ha) AH	Cobs ('000/ ha)	Net return (Rs./ha)	BC ratio	No of grassy weed/m2	No of sedges/m^2	No of broadleaf/ m^2
T_1	7061	7965	79.9	79.3	79.3	42838	2.02	12.4(152.8)	10.7(114.8)	8.2(67.2)
T_2	11829	12735	83.3	83.2	116.6	100043	3.38	0.7(0.0)	0.7(0.0)	0.7(0.0)
T_3	7197	8072	81.3	80.7	80.8	45540	2.07	1.6(133.2)	8.2(66.8)	6.5(41.2)
T_4	7183	8147	82.4	81.6	82.9	44293	2.05	11.4(130.2)	8.3(58.4)	5.4(29.1)
T_5	7670	8539	82.5	82.1	83.8	50143	2.19	9.8(96.1)	7.7(59.7)	5.3(27.8)
T_6	7107	7967	80.4	80.1	81.6	43382	2.03	11.9(140.8)	8.9(78.4)	6.0(36)
T_7	7201	8096	81.8	80.7	80.7	44507	2.06	11.0(120.1)	7.9(61.5)	5.5(30.1)
T_8	7308	8156	80.7	79.8	79.8	45795	2.09	11.3(126.6)	7.9(71.7)	5.8(33.5)
T_9	11370	12367	83.3	82.6	108.3	94544	3.25	8.7(76.1)	7.5(52.1)	5.2(26.8)
T_{10}	11529	12514	83.1	82.9	112.7	96452	3.30	7.4(54.4)	6.5(42.2)	4.9(23.2)
Mean	8545.5	9455.8	81.9	81.3	90.7	60753.6	2.4	9.6	7.4	5.4
CD	162.6	132.8	0.7	0.9	2.5	2302.1	0.1	0.1	0.7	0.2
CV (%)	1.1	0.8	0.5	0.7	1.6	2.2	1.4	0.9	5.3	1.9
Significance	S	S	S	S	S	S	S	S	S	S

Treatment	No of grass/m2 (AH)	No of sedges (AH)	No of broadleaves (AH)	Dry weight of grassy weed/m^2 at 50DAS	Dry weight of sedges/m^2	Dry weight of broadleaf/m2 at 50 DAS	Dry weight of grassy weeds/m^2 (AH)	Dry weight of sedges/m^2 (AH)	Dry weight of broadleaf/m^2 (AH)
T_1	13.2(173.9)	10.2(103.3)	7.3(53.3)	6.0(35.7)	5.1(25.2)	3.9(14.9)	7.8(59.8)	4.1(16.5)	3.7(13.2)
T_2	0.7(0.0)	0.7(0.0)	0.7(0.0)	0.7(0.0)	0.7(0.0)	0.7(0.0)	0.7(0.0)	0.7(0.0)	0.7(0.0)
T_3	12.3(152.2)	7.9(61.3)	6.3(39.2)	4.3(18.2)	3.7(13.1)	3.7(13)	6.5(41.3)	3.4(11.2)	3.4(11)
T_4	12.3(149.9)	8.0(62.6)	5.3(27.2)	4.0(15.4)	4.0(15.2)	3.5(11.6)	6.2(38.1)	3.7(13.4)	3.5(11.4)
T_5	10.8(116.2)	7.3(53.4)	5.4(28.7)	3.6(12.4)	3.3(10.6)	3.4(11.1)	6.0(35.6)	3.0(8.7)	3.3(10.1)
T_6	12.7(160.6)	8.6(73.4)	5.8(33.4)	5.9(34.2)	3.8(14.2)	3.8(14)	6.8(46.2)	3.6(12.5)	3.5(12.1)
T_7	11.8(139.5)	7.5(55.3)	5.3(27.8)	4.0(17.5)	3.2(9.7)	3.4(11.9)	6.2(38.3)	2.8(7.6)	3.3(10.6)
T_8	12.1(145.8)	8.2(66.1)	5.6(30.7)	3.8(13.9)	3.6(12.4)	3.4(12.8)	6.4(40.7)	3.4(10.7)	3.3(10.6)
T_9	9.8(95.9)	7.4(38.8)	5.2(26.7)	3.3(10.5)	3.0(8.3)	3.2(9.6)	4.8(23.1)	2.7(6.9)	2.8(7.3)
T_{10}	8.6(73.5)	7.2(51.6)	4.3(17.6)	3.0(8.2)	2.7(6.8)	2.8(7.6)	4.4(18.6)	2.3(4.7)	2.4(5.4)
Mean	10.4	7.3	5.1	3.9	3.3	3.2	5.6	3.0	3.0
CD	0.1	0.1	0.2	0.4	0.2	0.2	0.2	0.5	0.0
CV (%)	0.8	0.9	1.8	5.4	3.4	4.2	2.0	9.9	0.5
Significance	S	S	S	S	S	S	S	S	S

Table 56: Weed management in maize systems in Ranchi.

Treatment	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield/ha	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Net return (Rs/ha)	BC ratio
T_1	2123	2821	3270	62.8	60.3	164.1	5100	0.21
T_2	4094	4986	6524	65.6	65.0	223.7	13256	0.30
T_3	3516	4448	5591	64.4	63.3	203.6	23481	0.92
T_4	3731	4618	5644	64.2	63.1	213.2	25915	1.00
T_5	3704	4616	5889	63.9	62.8	210.3	26077	1.02
T_6	3255	4106	5175	63.1	62.2	192.6	16509	0.57
T_7	3623	4544	5556	63.6	62.5	207.6	20747	0.70
T_8	3050	3897	4849	63.1	61.9	190.0	13854	0.48
T_9	3960	4838	6296	65.6	64.7	219.4	28792	1.10
T_{10}	3933	4869	6058	65.3	64.4	216.1	25038	0.85
Mean	3498.9	4374.3	5485.3	64.1	63.0	204.1	19876.8	0.72
CD	466.1	607.4	729.2	3.6	5.5	20.6	6495.2	0.24
CV (%)	7.8	8.1	7.7	3.3	5.1	5.9	19.0	19.2
Significance	S	S	S	NS	NS	S	S	S

Treatment	Grassy weeds m^2 at 50 days	Grassy weeds m^2 at harvest	Broad leaves weeds m^2 at 50 days	Broad leaves weeds m^2 at harvest	Sedges m^2 at 50 days	Sedges m^2 at harvest	Grassy weeds dry matter (g/m^2) at harvest	Broad leaves weeds dry matter (g/m^2) at harvest	Sedges dry matter (g/m^2) at harvest
T_1	97.3	75.7	77.3	60.3	38.7	28.0	27.2	61.4	21.4
T_2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T_3	26.3	21.7	21.0	16.7	22.7	16.3	9.6	21.6	12.7
T_4	12.3	10.3	11.0	9.7	17.3	12.3	5.2	11.7	9.3
T_5	24.0	19.7	15.0	12.3	18.0	13.7	8.4	18.9	10.7
T_6	28.3	24.0	28.0	23.3	24.0	17.7	10.3	23.2	13.5
T_7	24.7	21.0	19.7	15.3	19.7	14.0	9.1	20.7	10.7
T_8	33.0	27.0	40.3	31.0	24.7	17.7	11.7	26.4	13.5
T_9	9.0	7.7	5.7	5.7	7.0	5.3	3.4	7.6	3.9
T_{10}	10.7	8.7	7.3	7.3	14.3	11.0	4.7	10.7	8.5
Mean	26.6	21.6	22.5	18.2	18.6	13.6	8.9	20.2	10.4
CD	8.7	7.4	10.1	6.7	6.4	5.0	3.8	7.9	3.4
CV (%)	19.1	20.0	26.0	21.6	19.9	21.4	24.8	22.8	19.1
Significance	S	S	S	S	S	S	S	S	S

Table 57: Weed management in maize systems in Dharwad.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha) 25 DAS	Plants ('000/ ha) AH	Cobs ('000/ ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	100-seed weight (g)	Net returns (Rs. /ha)	BC ratio	Shelling (%)
T_1	5795	7663	74.7	73.1	67.2	195.3	50.3	55.0	20.6	40580	2.4	72.7
T_2	7434	9405	75.3	73.6	68.3	218.8	51.3	55.7	31.4	60528	3.1	78.8
T_3	6244	8361	73.9	72.2	66.9	203.9	50.7	55.3	23.9	46096	2.6	74.0
T_4	6158	8193	75.6	74.2	69.2	202.2	51.3	56.0	23.4	44922	2.5	73.7
T_5	7055	9003	76.4	75.3	70.0	214.6	51.0	56.0	28.3	55401	2.9	76.6
T_6	6034	8094	75.3	73.6	68.6	199.5	50.3	55.3	22.6	42297	2.4	73.7
T_7	6675	8714	74.7	72.5	67.2	209.2	50.0	55.0	25.3	49297	2.6	75.3
T_8	6513	8661	74.4	72.5	68.1	206.5	51.7	56.0	24.5	46600	2.4	74.7
T_9	7155	9145	74.4	72.8	67.5	215.4	51.0	55.7	29.4	56510	2.9	77.3
T_{10}	6942	8910	76.1	74.7	69.4	212.2	50.3	55.3	26.4	50942	2.5	75.6
Mean	6600.4	8614.9	75.1	73.4	68.3	207.8	50.8	55.5	25.6	49317.3	2.6	75.2
CD	374.6	456.3	1.9	2.2	2.2	7.0	1.3	1.1	4.6	4427.8	0.1	0.8
CV (%)	3.3	3.1	1.5	1.8	1.9	2.0	1.5	1.1	10.6	5.2	3.3	0.6
Significance	S	S	NS	NS	NS	S	NS	NS	S	S	S	S

Treatments	Grassy weeds m^2 at 50 DAS	Grassy, weeds m^2 at harvest	Broad leaves weeds m^2 at 50 DAS	Broad leaves weeds m^2 at harvest	Sedges, if any at harvest	Grassy weeds g/m^2 at harvest	Broad leaves weeds g/m^2 at harvest	Sedges g/m^2 at harvest
T_1	35.9	42.1	41.8	45.4	20.4	17.4	22.3	10.9
T_2	5.6	6.6	1.7	2.4	1.7	2.6	1.1	1.5
T_3	15.2	18.0	13.8	18.0	9.4	6.3	7.8	4.2
T_4	16.8	18.7	14.9	18.9	9.6	7.1	8.2	4.7
T_5	9.2	11.4	4.7	6.5	5.2	4.6	2.9	2.5
T_6	17.8	20.2	5.2	8.9	8.7	8.0	3.8	4.8
T_7	10.4	15.3	3.9	7.6	6.6	5.8	3.2	3.1
T_8	12.9	15.5	4.6	8.6	7.7	6.0	3.6	3.8
T_9	7.6	10.2	3.3	5.0	3.9	4.1	2.2	1.9
T_{10}	9.7	13.0	3.6	7.0	5.9	4.5	3.2	2.9
Mean	14.1	17.1	9.7	12.8	7.9	6.6	5.8	4.0
CD	4.8	3.7	8.1	4.1	3.9	1.8	1.5	1.3
CV (%)	19.9	12.6	48.3	18.7	28.6	15.8	15.5	19.4
Significance	S	S	S	S	S	S	S	S

Table 58: Weed management in maize in Hyderabad.

Treatments	Grain yield (Kg/ha)	Straw yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant Height (cm)	Net Returns Rs./ha	BC Ratio	Weed dry matter g/m²		
								25 DAS	50 DAS	At harvest
T_1	4880	6100	58.1	49.5	211.7	35033	1.9	31.0	38.7	34.9
T_2	8119	10148	69.0	67.2	253.7	78122	2.8	5.7	8.1	6.9
T_3	5998	7497	63.0	59.3	232.0	50425	2.3	12.9	22.8	22.1
T_4	6400	8271	67.2	63.2	247.0	56496	2.5	10.0	15.8	14.5
T_5	6298	8490	62.3	59.1	249.0	55857	2.5	19.6	17.3	16.1
T_6	6473	8029	59.3	57.4	238.3	53992	2.3	24.5	17.2	15.8
T_7	7388	9045	62.6	60.6	248.7	66261	2.5	13.7	13.3	11.7
T_8	6617	8158	60.7	58.7	247.0	56705	2.4	20.7	15.0	13.6
T_9	7469	9027	65.4	63.8	250.7	71196	2.8	11.3	11.3	9.4
T_{10}	7874	9206	65.2	62.7	262.0	73652	2.7	9.4	9.5	8.1
Mean	6751.5	8397.0	63.3	60.1	244.0	59773.9	2.5	15.9	16.9	15.3
CD	490.2	682.6	2.3	2.7	8.2	6763.0	0.2	2.8	1.8	2.0
CV (%)	4.2	4.7	2.2	2.6	2.0	6.6	4.0	10.2	6.1	7.5
Significance	S	S	S	S	S	S	S	S	S	S

Treatments	Weed count									Weed control efficiency (WCE) %			Weed Index
	At 25 DAS			At 50 DAS			At harvest			25 DAS	50 DAS	At harvest	
	Grasses	BLW	Sedges	Grasses	BLW	Sedges	Grasses	BLW	Sedges				
T_1	54.0	98.0	22.0	50.0	94.3	19.7	60.0	100.0	24.0	---	---	---	39.8
T_2	6.0	6.7	4.7	2.3	3.7	1.7	4.7	6.0	2.7	78.2	79.1	80.2	---
T_3	34.0	22.0	18.3	29.3	20.0	14.0	32.0	22.7	16.7	48.7	44.1	36.7	26.1
T_4	24.7	14.7	8.7	22.7	11.3	10.7	28.0	12.7	12.7	67.7	59.2	58.5	21.1
T_5	22.0	10.3	16.0	16.0	6.0	12.7	18.7	10.0	15.3	36.7	55.2	53.9	22.4
T_6	16.0	21.0	12.7	14.0	16.3	8.3	16.7	22.0	11.3	20.9	55.5	54.7	20.3
T_7	14.7	12.0	11.3	12.7	9.0	7.7	15.3	10.3	10.3	55.8	65.6	66.5	9.0
T_8	15.0	8.0	14.7	10.0	5.0	11.3	12.7	5.7	12.7	33.2	61.2	61.0	18.4
T_9	20.7	9.7	6.3	18.7	3.7	10.0	24.0	6.7	10.0	63.5	70.8	73.1	8.0
T_{10}	12.7	10.7	14.7	8.7	8.0	10.0	14.7	10.7	12.7	69.6	75.5	76.8	3.0
Mean	22.0	21.3	12.9	18.4	17.7	10.6	22.7	20.7	12.8				
CD	4.3	5.1	2.5	4.7	5.0	2.5	3.3	5.7	2.9				
CV (%)	11.3	13.9	11.1	14.7	16.6	13.6	8.6	16.2	13.3				
Significance	S	S	S	S	S	S	S	S	S				

Table 59: Weed management in maize in Karimnagar.

Treatment	Grain yield (kg/ha)	Cob yield (kg/ha)	Days to 50% tasseling	Days to 50% silking	Plant height (cm)	Cob length (cm)	Cob girth (cm)	Grains rows/ cob	Grains/row	100 grain weight (g)	Net returns (Rs./ha)	B : C Ratio
T_1	6634	8821	53.0	56.7	215.3	15.8	15.1	13.3	26.7	28.7	31854	1.6
T_2	8933	12807	50.7	54.7	213.7	20.4	17.3	14.0	35.5	39.3	57119	2.0
T_3	7695	10233	50.7	54.0	205.7	19.1	15.9	13.7	31.7	33.3	44270	1.8
T_4	8937	13146	52.0	55.7	215.7	20.6	17.5	15.1	37.2	37.3	58830	2.0
T_5	8312	11937	51.7	55.3	209.0	20.0	16.7	13.9	34.7	34.0	52025	1.9
T_6	7225	10161	54.7	58.0	194.3	18.3	16.7	14.1	31.2	34.0	35438	1.6
T_7	7228	10243	54.3	57.7	182.0	17.6	16.6	13.7	29.9	30.0	33998	1.6
T_8	8271	11939	53.0	56.7	193.7	19.3	17.3	14.4	35.7	36.0	49057	1.8
T_9	8871	12571	52.3	55.7	206.0	19.3	16.7	14.0	36.0	36.0	56019	1.9
T_{10}	8953	12900	50.7	54.3	213.7	20.5	17.3	14.1	36.5	35.3	56470	1.9
Mean	8105.7	11476.0	52.3	55.9	204.9	19.1	16.7	14.0	33.5	34.4	47507.9	1.8
CD	942.8	1384.6	3.9	3.3	21.5	2.2	1.6	1.6	3.8	6.0	12350.9	0.2
CV (%)	6.8	7.0	4.3	3.4	6.1	6.7	5.8	6.5	6.6	10.1	15.2	6.8
Significance	S	S	NS	NS	S	S	NS	NS	S	S	S	S

Treatment	Weed Density /m^2 of Grasses at 30 DAS	Weed Density/ m^2 of Sedges at 30 DAS	Weed Density/m^2 of Broadleaved weeds at 30 DAS	Total Weed Density/ m^2 at 30 DAS	Weed Drymatter g/m^2 at 30 DAS	Weed Density/ m^2 of Grasses at 50 DAS	Weed Density/ m^2 of Sedges at 50 DAS	Weed Density/m^2 of Broadleaved weeds at 50 DAS	Total Weed Density/ m^2 at 50 DAS	Weed Drymatter g/ m^2 at 50 DAS
T_1	28.7	29.3	31.7	89.7	0.11	24.0	40.7	17.3	82.0	0.18
T_2	1.7	2.0	0.7	4.3	0.00	0.0	0.0	0.0	0.0	0.00
T_3	15.3	14.0	17.7	47.0	0.04	11.3	16.0	12.0	39.3	0.11
T_4	1.7	21.3	4.7	27.7	0.06	1.3	33.3	20.0	31.3	0.09
T_5	19.7	23.3	4.3	47.3	0.04	14.7	23.3	3.3	41.3	0.16
T_6	20.0	17.3	5.0	42.3	0.03	13.3	3.3	4.0	20.7	0.11
T_7	8.3	26.3	2.0	36.7	0.04	6.0	7.3	4.7	18.0	0.08
T_8	3.3	36.3	2.7	42.3	0.02	0.7	24.0	4.7	29.3	0.02
T_9	0.3	19.7	2.0	22.0	0.01	1.3	30.7	4.7	36.7	0.06
T_{10}	2.3	13.0	2.7	18.0	0.02	6.0	12.0	6.7	24.7	0.07
Mean	10.1	20.3	7.3	37.7	0.04	7.9	19.1	7.7	32.3	0.09
CD	9.3	12.5	5.5	14.6	0.04	8.7	18.7	6.8	21.5	0.08
CV (%)	53.2	36.0	43.9	22.5	61.3	64.5	57.0	51.2	38.7	52.3
Significance	S	S	S	S	S	S	S	S	S	S

Cont…

Treatment	Weed Density/ m^2 of Grasses at 90 DAS	Weed Density /m^2 of Sedges at 90 DAS	Weed Density of Broadleaved weeds/m^2 at 90 DAS	Total Weed Density/ m^2 at 90 DAS	Weed Drymatter g/m^2 at 90 DAS	Weed Density/ m^2 of Grasses at Harvest	Weed Density of Sedges/ m^2 at Harvest	Weed Density of Broadleaved weeds/m^2 at Harvest	Total Weed Density/ m^2 at Harvest	Weed Drymatter g/m^2 at Harvest
T_1	13.3	0.67	12.7	26.7	0.16	0.7	4.0	24.7	29.3	0.938
T_2	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0
T_3	2.7	2.67	7.3	12.7	0.12	1.3	0.0	19.3	20.7	0.9
T_4	2.0	26.67	7.3	36.0	0.10	2.0	30.0	6.0	38.0	0.8
T_5	18.0	6.67	5.3	30.0	0.12	13.3	9.3	2.7	25.3	0.1
T_6	10.7	0.00	7.3	18.0	0.10	21.3	4.0	2.0	27.3	0.1
T_7	12.7	0.67	2.0	15.3	0.10	25.3	3.3	1.3	30.0	0.1
T_8	2.7	10.67	5.3	18.7	0.10	7.3	6.7	4.7	18.7	0.1
T_9	0.7	29.33	4.0	34.0	0.09	6.0	21.3	3.3	30.7	0.1
T_{10}	0.7	14.67	6.0	21.3	0.09	7.3	8.7	5.3	21.3	0.1
Mean	6.3	9.20	5.7	21.3	0.10	8.5	8.7	6.9	24.1	0.3
CD	5.8	13.01	4.9	13.0	0.03	12.8	19.0	8.9	20.0	0.4
CV (%)	53.4	82.4	50.0	35.6	18.9	88.1	126.8	74.9	48.2	78.5
Significance	S	S	S	S	S	S	NS	S	NS	S

Table 60: Weed management in maize systems in Vagarai.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days 50% tasselin g	Days 50% silking	100-seed weight (g)	Insect pest incidenc e (%)	Net returns (Rs./ha)	BC ratio
T_1	8033	9593	56.2	46.9	159.1	55.3	57.0	42.7	5.7	35429	1.6
T_2	7805	9762	55.8	55.6	153.1	55.0	57.0	38.7	9.5	62929	1.9
T_3	6959	7036	52.4	47.8	152.6	56.3	57.3	39.3	11.8	49892	1.9
T_4	7398	9027	53.3	48.9	165.9	54.3	57.0	39.3	8.0	54449	2.0
T_5	8662	8984	56.7	49.1	160.9	55.0	57.3	40.0	5.7	51278	1.9
T_6	8336	9011	55.6	48.9	158.5	54.3	57.0	37.3	8.7	56607	2.0
T_7	8111	7982	53.1	54.9	150.7	55.7	57.0	40.0	7.8	70250	2.2
T_8	7963	9102	54.0	48.9	159.3	55.0	58.0	40.0	6.3	48543	1.9
T_9	7428	10836	53.3	54.0	145.1	55.0	58.0	40.7	9.2	69474	2.2
T_{10}	7690	8393	54.2	54.4	161.5	55.3	57.3	40.0	10.6	68356	2.2
Mean	7838.4	8972.7	54.5	50.9	156.7	55.1	57.3	39.8	8.3	56720.6	2.0
CD	1193.8	1968.2	4.6	3.8	14.2	2.5	1.5	6.4	6.2	18360.5	0.3
CV (%)	8.9	12.8	5.0	4.4	5.3	2.7	1.6	9.4	43.7	18.9	9.4
Significance	NS	NS	NS	S	NS	NS	NS	NS	NS	S	S

Treatments	Grassy weeds m^2 at 50 DAS	Grassy, weeds m^2 at harvest	Broad leaves weeds m^2 at 50 DAS	Broad leaves weeds m^2 at harvest	Grassy weeds g/m^2 at 50 DAS	Grassy weeds g/m^2 at harvest	Broad leaves weeds g/m^2 at 50 DAS	Broad leaves weeds g/m^2 at harvest
T_1	0.0	1.3	166.7	34.3	0.0	6.0	338.0	162
T_2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T_3	0.3	1.7	135.0	28.3	0.0	4.7	203.3	212.0
T_4	3.0	2.3	104.0	26.0	7.3	7.0	196.7	156.7
T_5	6.3	19.3	136.3	8.7	17.7	44.0	207.3	32.7
T_6	4.3	1.7	128.0	42.3	13.7	97.3	277.3	140.0
T_7	28.0	45.0	51.7	6.7	82.0	134.0	235.3	50.0
T_8	0.3	0.7	132.7	35.3	4.3	3.7	246.7	106.0
T_9	4.7	3.3	52.0	12.3	9.3	56.0	166.0	62.7
T_{10}	10.7	21.7	120.7	14.0	26.7	110.0	218.7	38.7
Mean	5.8	9.7	102.7	20.8	16.1	46.3	208.9	96.1
CD	13.6	15.7	118.1	22.6	33.9	137.9	105.9	77.8
CV (%)	137.0	94.1	67.0	63.4	122.7	173.7	29.6	47.2
Significance	S	S	NS	S	S	NS	S	S

Table 61: Weed management in maize systems in Banswara.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	100-seed weight (g)	Net returns (Rs./ha)	BC ratio
T_1	1716	2990	29.3	24.4	168.0	46.0	51.0	22.4	3334	0.16
T_2	5929	6872	59.6	59.4	227.3	50.7	53.3	30.9	48161	1.38
T_3	3228	5031	46.0	38.6	200.7	49.0	52.7	28.0	22699	1.01
T_4	3306	4816	47.7	41.3	208.7	47.7	51.0	27.5	23513	1.03
T_5	3569	5367	55.3	43.9	208.7	47.7	51.3	29.4	27103	1.19
T_6	2243	2764	36.5	27.6	171.3	48.7	51.7	23.7	7035	0.29
T_7	3417	5196	50.3	42.1	203.3	49.3	52.3	25.7	21660	0.83
T_8	4322	5936	52.9	48.1	204.0	49.7	53.3	29.5	35213	1.39
T_9	3826	5882	57.0	44.6	208.3	49.0	52.0	28.4	30035	1.28
T_{10}	5383	6257	56.6	52.4	221.3	49.7	52.7	30.6	48277	1.78
Mean	3693.8	5111.2	49.1	42.3	202.2	48.7	52.1	27.6	26703.0	1.03
CD	528.0	655.8	12.1	5.7	13.7	3.4	1.6	2.0	7392.0	0.32
CV (%)	8.3	7.5	14.4	7.8	3.9	4.1	1.8	4.3	16.1	18.0
Significance	S	S	S	S	S	NS	S	S	S	S

Treatments	Grassy weeds m^2 at 50 DAS	Grassy, weeds m^2 at harvest	Broad leaves weeds m^2 at 50 DAS	Broad leaves weeds m^2 at harvest	Sedges, if any at harvest	Grassy weeds g/m^2 at 50 DAS	Grassy weeds g/m^2 at harvest	Broad leaves weeds g/m^2 at 50 DAS	Broad leaves weeds g/m^2 at harvest	Sedges g/m^2 at harvest
T_1	70.4	94.3	42.7	62.7	15.7	58.5	82.1	8.5	18.2	5.0
T_2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T_3	38.0	68.6	11.7	31.7	10.7	31.6	59.6	2.3	9.2	3.4
T_4	33.7	65.5	8.0	28.0	8.0	28.0	57.0	1.6	8.1	2.6
T_5	33.4	63.3	5.3	25.3	2.7	27.7	55.1	1.1	7.3	0.9
T_6	50.6	120.7	5.0	25.0	2.3	42.0	105.0	1.0	7.3	0.7
T_7	32.8	74.9	1.7	21.7	1.7	27.2	65.2	0.3	6.3	0.5
T_8	15.0	48.2	15.0	35.0	15.7	12.4	42.0	3.0	10.2	5.0
T_9	20.8	41.4	10.0	30.0	0.0	17.3	36.0	2.0	8.2	3.8
T_{10}	8.6	26.3	13.3	33.3	8.7	7.1	18.2	2.7	9.7	2.8
Mean	30.3	60.3	11.3	29.3	6.5	25.2	52.0	2.3	8.4	2.5
CD	11.5	30.8	7.8	7.8	6.5	9.6	26.7	1.6	3.2	2.3
CV (%)	22.2	29.8	40.5	15.6	57.9	22.2	29.9	40.5	22.2	55.5
Significance	S	S	S	S	S	S	S	S	S	S

Table 62: Weed management in maize systems in Chhindwara.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days to 50% tasselin g	Days to 50% silking	100-seed weight (g)	Net returns (Rs./ha)	BC ratio	Barrenness in maize (%)
T_1	3756	6148	64.8	58.8	142.7	56.0	62.7	30.8	30587	1.7	5.4
T_2	6911	9704	79.6	75.9	171.3	52.7	58.0	35.9	67459	3.0	1.8
T_3	6640	8855	74.0	68.9	166.0	53.3	58.7	35.5	68360	3.8	4.6
T_4	6420	9586	74.5	72.6	168.7	52.7	59.7	35.8	69433	3.8	2.6
T_5	5994	8496	72.2	67.1	164.7	54.3	62.3	34.3	55449	3.0	3.9
T_6	4372	6579	68.9	64.8	149.0	54.3	63.0	31.5	41744	2.1	5.1
T_7	5942	6737	67.1	62.5	162.7	53.3	62.3	33.6	53900	2.7	5.8
T_8	5677	6658	70.3	65.2	149.7	54.0	62.0	32.6	52693	2.4	5.2
T_9	6359	8817	73.6	68.5	166.7	53.7	59.7	35.1	66386	3.6	5.6
T_{10}	6307	8791	71.7	65.2	165.7	52.0	61.3	34.5	56988	2.6	6.2
Mean	5837.8	8037.1	71.7	66.9	160.7	53.6	61.0	33.9	56299.8	2.9	4.6
CD	1461.1	723.5	7.3	10.6	27.9	2.6	3.0	3.6	11246.5	0.6	2.0
CV (%)	14.6	5.2	5.9	9.3	10.1	2.8	2.9	6.2	11.6	11.8	25.7
Significance	S	S	S	NS	NS	NS	S	NS	S	S	S

Treatments	Grassy weeds m^2 at 50 DAS	Grassy, weeds m^2 at harvest	Broad leaves weeds m^2 at 50 DAS	Broad leaves weeds m^2 at harvest	Sedges, if any at harvest	Grassy weeds g/m^2 at 50 DAS	Grassy weeds g/m^2 at harvest	Broad leaves weeds g/m^2 at 50 DAS	Broad leaves weeds g/m^2 at harvest	Sedges g/m^2 at harvest
T_1	53.7	50.3	18.7	22.0	9.7	117.5	123.5	51.0	60.6	9.8
T_2	12.7	12.7	7.7	6.0	5.7	11.7	13.3	13.9	19.1	7.5
T_3	15.3	15.7	7.3	8.0	2.7	20.8	20.4	15.7	22.0	8.7
T_4	12.7	13.7	7.7	7.3	8.0	16.9	20.9	16.5	21.4	8.5
T_5	16.3	16.0	7.0	10.3	4.0	21.9	27.9	25.6	25.1	11.0
T_6	19.7	23.7	14.3	13.3	7.7	33.8	37.4	24.3	28.0	9.0
T_7	18.7	20.7	12.3	11.3	6.0	19.0	27.4	25.5	30.4	10.9
T_8	19.0	23.3	11.7	15.0	4.0	30.1	30.6	29.3	28.3	9.0
T_9	15.7	15.7	8.7	12.0	6.7	23.0	20.0	20.8	21.0	9.7
T_{10}	16.7	15.3	8.7	9.7	5.3	25.8	30.0	24.1	25.6	10.7
Mean	20.0	20.7	10.4	11.5	6.0	32.1	35.1	24.7	28.2	9.5
CD	4.7	5.5	5.4	4.6	3.2	6.8	6.1	5.1	7.3	2.4
CV (%)	13.6	15.6	30.1	23.2	31.1	12.3	10.1	12.0	15.1	14.7
Significance	S	S	S	S	S	S	S	S	S	NS

Table 63: Weed management in maize systems in Udaipur.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Shelling (%)	Plant height (cm)	Grassy weed density/ m^2	Broad leaf weed density/ m^2	Sedges density/ m^2	Total weed density/ m^2
							50 DAS			
T_1	1443	1636	75.3	83.5	57.6	160.2	150.3	60.0	12.0	222.3
T_2	4792	7137	94.7	104.4	81.6	231.4	8.0	3.7	10.0	21.7
T_3	3781	5560	93.0	102.6	78.7	222.5	14.0	38.7	12.7	65.3
T_4	4511	6989	91.7	101.3	80.0	232.0	16.0	10.0	11.3	37.3
T_5	3841	5966	85.3	95.0	78.9	221.9	17.7	50.0	12.3	80.0
T_6	3423	5084	83.0	91.0	78.9	210.3	35.7	27.7	7.0	70.3
T_7	3706	5550	83.0	92.3	73.2	212.0	7.0	22.3	6.7	36.0
T_8	2594	3501	82.3	91.4	73.8	200.2	120.3	43.7	12.3	176.3
T_9	3526	5266	79.7	89.0	72.3	221.3	125.3	46.7	12.0	184.0
T_{10}	3839	5897	83.3	92.7	72.8	215.0	8.0	48.0	13.0	69.0
Mean	3545.7	5258.7	85.1	94.3	74.8	212.7	50.2	35.1	10.9	96.2
CD	426.1	834.6	6.5	7.6	8.4	30.0	9.1	9.0	3.6	13.7
CV (%)	7.0	9.3	4.4	4.7	6.5	8.2	10.6	14.9	19.0	8.3
Significance	S	S	S	S	S	S	S	S	S	S

Treatment	Grassy weed density/m^2	Broad leaf weed density/m^2	Sedges density/m^2	Total weed density/m^2	Grassy weed/m^2	Broad leaf weeds m^2	Sedges/m^2	Total weed/m^2
	At harvest				Dry matter of weed g /m2 at harvest			
T_1	146.7	56.7	15.0	218.3	58.3	22.4	2.5	83.2
T_2	7.0	3.3	12.0	22.3	5.4	2.0	2.5	10.0
T_3	13.0	31.7	12.7	57.3	6.4	13.7	2.2	22.3
T_4	14.0	8.0	12.0	34.0	6.6	3.0	2.3	11.9
T_5	15.0	36.7	12.7	64.3	7.2	17.3	2.6	27.1
T_6	20.0	18.0	7.7	45.7	50.3	13.2	0.4	63.9
T_7	5.3	20.0	8.0	33.3	3.1	14.1	0.8	18.0
T_8	107.3	45.0	13.0	165.3	47.0	15.1	2.5	64.6
T_9	118.7	33.3	13.0	165.0	45.9	15.2	2.5	63.7
T_{10}	5.7	36.3	13.0	55.0	8.0	15.7	2.3	26.0
Mean	45.3	28.9	11.9	86.1	23.8	13.2	2.1	39.1
CD	9.4	7.2	3.1	14.2	4.1	2.9	0.4	4.7
CV (%)	12.1	14.5	15.4	9.6	10.1	12.7	12.6	7.1
Significance	S	S	S	S	S	S	S	S

Table 64: Enhancing water-use efficiency in rainfed maize in Imphal.

Tillage practices	Residue management	Hydrogel (kg/ha)	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
Conventional tillage	No mulching	No hydrogel	6611	12084	80.6	245.2	50.7	52.7
		Hydrogel 2.5	6659	13143	81.0	245.9	51.0	53.0
		Hydrogel 5.0	7640	14641	80.6	252.3	50.7	52.7
	Mulching/ residue@4t/ha	No hydrogel	6986	11926	80.1	252.3	50.3	52.3
		Hydrogel 2.5	7661	14441	81.5	259.0	50.3	52.3
		Hydrogel 5.0	8336	15974	83.1	260.3	50.7	52.7
Zero tillage	No mulching	No hydrogel	6760	12254	81.3	252.3	50.0	52.0
		Hydrogel 2.5	8069	14600	81.5	256.0	50.3	52.7
		Hydrogel 5.0	8239	15336	83.1	262.2	50.3	52.0
	Mulching/ residue@4t/ha	No hydrogel	7589	12812	81.7	249.5	50.7	52.7
		Hydrogel 2.5	8141	14631	82.9	265.1	50.3	52.3
		Hydrogel 5.0	9711	17253	79.9	273.0	50.0	52.0
Mean of location			7700.1	14091.1	81.4	256.1	50.4	52.4
Conventional tillage			7315	13701	81.1	252.5	50.6	52.6
Zero tillage			8085	14481	81.7	259.7	50.3	52.3
CD at 5%			NS	NS	NS	5.9	NS	NS
CV (%)			16.1	20.4	0.7	1.6	0.6	0.6
No mulching			7330	13676	81.3	252.3	50.5	52.5
Mulching/ residue@4t/ha			8071	14506	81.5	259.9	50.4	52.4
CD at 5%			NS	791.2	NS	NS	NS	NS
CV (%)			11.6	6.1	2.8	3.6	0.3	0.3
No hydrogel (0 kg/ha)			6986	12269	80.9	249.9	50.4	52.4
Hydrogel (2.5 kg/ha)			7632	14204	81.7	256.5	50.5	52.6
Hydrogel (5.0 kg/ha)			8481	15801	81.7	262.0	50.4	52.3
CD at 5%			893.8	961.6	NS	5.6	NS	NS
CV (%)			13.4	7.9	3.2	2.5	1.1	1.0

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Tillage practices	Residue management	Hydrogel (kg/ha)	100-seed weight (g)	Shelling (%)	Cob length (cm)	Cob girth (cm)	Grain rows/ cob	Grains/ row	Grain/ cob
Conventional tillage	No mulching	No hydrogel	31.6	66.1	17.4	15.1	14.8	33.1	459.1
		Hydrogel 2.5	32.3	71.4	17.7	14.9	14.4	35.4	487.7
		Hydrogel 5.0	33.8	71.6	18.6	14.7	14.4	37.7	511.7
	Mulching/ residue@4t/ha	No hydrogel	33.7	68.5	17.5	14.7	14.4	35.0	479.6
		Hydrogel 2.5	34.0	70.6	18.7	15.2	14.9	36.0	536.9
		Hydrogel 5.0	34.6	74.3	19.2	15.5	14.3	37.1	541.9
Zero tillage	No mulching	No hydrogel	32.0	69.1	17.1	15.2	14.9	35.3	473.1
		Hydrogel 2.5	34.4	72.2	18.1	15.0	14.9	36.3	518.1
		Hydrogel 5.0	33.2	71.5	18.3	15.4	15.6	38.8	536.9
	Mulching/ residue@4t/ha	No hydrogel	34.3	71.1	17.9	14.7	15.1	35.4	507.1
		Hydrogel 2.5	34.1	74.4	18.9	15.3	15.5	36.3	529.9
		Hydrogel 5.0	34.7	74.5	19.5	15.6	15.7	38.2	604.1
Mean of location			33.6	71.3	18.2	15.1	14.9	36.2	515.5
Conventional tillage			33.3	70.4	18.2	15.0	14.5	35.7	502.8
Zero tillage			33.8	72.1	18.3	15.2	15.3	36.7	528.2
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			3.9	5.0	7.2	1.1	3.9	9.5	16.5
No mulching			32.9	70.3	17.9	15.0	14.8	36.1	497.8
Mulching/ residue@4t/ha			34.2	72.2	18.6	15.2	15.0	36.3	533.2
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			6.4	5.2	8.0	3.4	7.9	10.2	9.6
No hydrogel (0 kg/ha)			32.9	68.7	17.5	14.9	14.8	34.7	479.7
Hydrogel (2.5 kg/ha)			33.7	72.2	18.4	15.1	14.9	36.0	518.2
Hydrogel (5.0 kg/ha)			34.1	73.0	18.9	15.3	15.0	37.9	548.7
CD at 5%			NS	2.7	NS	NS	NS	2.5	NS
CV (%)			6.8	4.3	8.9	4.8	4.9	7.9	12.5

Table 65: Enhancing water-use efficiency in rainfed maize in Srinagar.

Tillage	Hydrogel (kg/ha)	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	100-seed weight (g)
Conventional tillage	Control	7108	14467	83.1	86.0	220.7	73.7	78.7	24.5
	Hydrogel 2.5	7090	14575	82.6	87.2	217.7	77.0	81.7	24.4
	Hydrogel 5.0	7358	14475	83.0	87.3	219.0	76.7	81.3	24.8
Conventional tillage + mulch	Control	7246	14662	82.4	89.0	218.0	78.3	82.7	24.0
	Hydrogel 2.5	7302	14475	82.8	91.0	223.7	78.7	83.0	24.2
	Hydrogel 5.0	7457	14745	83.1	92.1	221.3	78.3	82.7	24.3
Zero tillage	Control	7208	14378	83.0	94.0	220.0	75.3	79.0	24.5
	Hydrogel 2.5	7303	14563	82.8	94.1	219.7	76.0	80.0	24.2
	Hydrogel 5.0	7376	14672	82.8	94.2	220.7	75.7	80.0	25.0
Zero tillage + mulch	Control	7705	14670	82.6	95.5	217.7	78.3	82.7	24.1
	Hydrogel 2.5	7704	14723	83.0	97.1	219.0	77.7	83.0	24.2
	Hydrogel 5.0	7919	14948	83.0	97.2	218.0	78.7	84.0	24.2
Location mean		7398.0	14612.8	82.8	92.1	219.6	77.0	81.6	24.4
C.D.(5%) AiBj-AiBk		263.2	569.8	0.9	2.6	10.7	2.5	2.4	1.0
C.D.(5%) AiBk-AjBk		254.5	492.8	0.9	2.3	10.2	3.3	3.8	1.0
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS
Conventional tillage		7185	14506	82.9	86.8	219.1	75.8	80.6	24.6
Conventional tillage + mulch		7335	14627	82.8	90.7	221.0	78.4	82.8	24.2
Zero tillage		7295	14538	82.8	94.1	220.1	75.7	79.7	24.6
Zero tillage + mulch		7776	14781	82.9	96.6	218.2	78.2	83.2	24.2
C.D. (5%) Ai-Aj		137.4	163.8	0.5	1.0	5.3	2.5	3.2	0.7
C.V. (%) Error A		1.6	1.0	0.5	0.9	2.1	2.9	3.4	2.4
F (5%)		S	S	NS	S	NS	NS	NS	NS
Control		7317	14544	82.8	91.1	219.1	76.4	80.8	24.3
Hydrogel 2.5		7350	14584	82.8	92.3	220.0	77.3	81.9	24.3
Hydrogel 5.0		7527	14710	83.0	92.7	219.8	77.3	82.0	24.6
C.D. (5%) Bi-Bj		131.6	284.9	0.4	1.3	5.3	1.2	1.2	0.5
C.V. (%) Error B		2.1	2.3	0.6	1.6	2.8	1.9	1.7	2.3
F (5%)		S	NS	NS	NS	NS	NS	NS	NS

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Tillage	Hydrogel (kg/ha)	Net returns (Rs./ha)	BC ratio	Barrenness in maize (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
Conventional tillage	Control	78088	1.5	11.9	18.8	11.0	13.3	34.2
	Hydrogel 2.5	82106	1.6	11.8	18.7	10.8	11.4	37.3
	Hydrogel 5.0	83583	1.7	12.1	17.8	10.4	12.2	42.1
Conventional tillage + mulch	Control	88227	1.7	11.1	16.6	11.2	12.1	40.5
	Hydrogel 2.5	89376	1.8	11.6	21.0	10.9	10.9	38.1
	Hydrogel 5.0	91131	1.8	11.3	18.2	10.3	13.2	43.6
Zero tillage	Control	99576	1.9	9.9	18.6	11.2	10.8	44.0
	Hydrogel 2.5	103897	2.0	10.2	19.4	11.4	13.1	45.3
	Hydrogel 5.0	110875	2.3	10.1	20.3	10.8	12.7	45.7
Zero tillage + mulch	Control	114416	2.4	10.8	18.6	11.7	13.7	40.6
	Hydrogel 2.5	117643	2.5	10.7	21.0	12.0	13.5	41.2
	Hydrogel 5.0	121883	2.5	10.5	21.6	12.3	14.5	45.4
Location mean		98400.2	2.0	11.0	19.2	11.2	12.6	41.5
C.D.(5%) AiBj-AiBk		6149.7	0.1	2.5	2.8	1.7	2.1	3.2
C.D.(5%) AiBk-AjBk		5255.9	0.1	2.1	2.6	1.7	1.9	3.0
F(5%)		NS	S	NS	NS	NS	NS	NS
Conventional tillage		81259	1.6	11.9	18.5	10.8	12.3	37.9
Conventional tillage + mulch		89578	1.8	11.3	18.6	10.8	12.1	40.7
Zero tillage		104783	2.1	10.1	19.4	11.1	12.2	45.0
Zero tillage + mulch		117981	2.5	10.7	20.4	12.0	13.9	42.4
C.D. (5%) Ai-Aj		1566.4	0.0	0.5	1.2	1.0	0.8	1.4
C.V. (%) Error A		1.4	1.8	4.3	5.2	7.4	5.8	3.0
F (5%)		S	S	S	S	NS	S	S
Control		95077	1.9	10.9	18.2	11.3	12.5	39.8
Hydrogel 2.5		98256	2.0	11.1	20.0	11.3	12.2	40.5
Hydrogel 5.0		101868	2.1	11.0	19.5	11.0	13.2	44.2
C.D. (5%) Bi-Bj		3074.8	0.1	1.2	1.4	0.8	1.1	1.6
C.V. (%) Error B		3.6	3.6	13.1	8.4	8.7	9.7	4.5
F (5%)		S	S	NS	S	NS	NS	S

Table 66: Enhancing water-use efficiency in rainfed maize in Hisar.

Tillage practices	Hydrogel (kg/ha)	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha) at 25 DAS	Plants ('000/ha) AH	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	Days to maturity
Conventional till	Control	3281	3383	88.3	74.9	81.0	130.0	52.3	55.7	91.0
	Hydrogel 2.5	3510	3708	85.6	75.5	85.5	135.4	50.0	53.3	93.0
	Hydrogel 5.0	3997	4404	86.6	76.0	88.1	136.7	47.0	50.0	94.0
Conventional till + mulching	Control	4489	4782	88.0	83.1	93.0	146.1	51.7	54.7	97.3
	Hydrogel 2.5	4621	4863	91.6	82.4	95.2	148.1	48.0	51.0	98.0
	Hydrogel 5.0	4823	5152	86.4	83.8	100.0	149.5	45.0	48.0	99.0
Zero tillage	Control	4848	5043	88.8	84.7	100.0	153.6	47.3	49.3	100.3
	Hydrogel 2.5	5155	5395	88.4	84.0	105.0	154.4	48.3	50.3	101.3
	Hydrogel 5.0	5368	5755	91.1	85.5	112.7	155.1	49.7	51.7	102.3
Zero tillage + residue (4 t/ha)	Control	5392	5895	89.5	87.5	113.1	155.9	47.3	49.3	102.7
	Hydrogel 2.5	5534	6056	88.8	89.2	117.1	157.2	46.0	48.0	104.0
	Hydrogel 5.0	5631	6086	92.2	89.4	119.4	159.1	45.3	47.3	105.3
Location mean		4720.7	5043.5	88.8	83.0	100.8	148.4	48.2	50.7	99.0
C.D.(5%) AiBj-AiBk		1411.8	1412.8	6.2	5.1	6.4	4.0	3.2	4.0	3.5
C.D.(5%) AiBk-AjBk		1331.4	1369.1	5.6	4.6	5.6	4.0	2.9	4.4	3.8
F(5%)		NS	NS	NS	NS	NS	NS	S	NS	NS
Conventional till		3596	3832	86.8	75.5	84.9	134.0	49.8	53.0	92.7
Conventional till + mulching		4644	4932	88.7	83.1	96.1	147.9	48.2	51.2	98.1
Zero tillage		5124	5398	89.4	84.7	105.9	154.3	48.4	50.4	101.3
Zero tillage + residue (4 t/ha)		5519	6012	90.2	88.7	116.5	157.4	46.2	48.2	104.0
C.D. (5%) Ai-Aj		671.0	742.4	2.4	2.0	2.2	2.4	1.2	2.9	2.4
C.V. (%) Error A		12.3	12.8	2.3	2.0	1.9	1.4	2.2	5.0	2.1
F (5%)		S	S	NS	S	S	S	S	S	S
Control		4502	4776	88.6	82.6	96.8	146.4	49.7	52.3	97.8
Hydrogel 2.5		4705	5006	88.6	82.8	100.7	148.8	48.1	50.7	99.1
Hydrogel 5.0		4955	5349	89.1	83.7	105.0	150.1	46.8	49.3	100.2
C.D. (5%) Bi-Bj		705.9	706.4	3.1	2.5	3.2	2.0	1.6	2.0	1.8
C.V. (%) Error B		17.3	16.2	4.0	3.5	3.6	1.6	3.9	4.6	2.1
F (5%)		NS	NS	NS	NS	S	S	S	S	S

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Tillage practices	Hydrogel (kg/ha)	100-seed weight (g)	Dead hearts formation due to Stem borer infestation (%)	Net returns (Rs./ ha)	BC ratio	Barrenness (%)	Cob length (cm)	Cob girth (cm)	Grain rows/ cob	Grains/ row
Conventional till	Control	192.7	9.9	12808	1.3	0.9	16.8	4.9	13.3	33.2
	Hydrogel 2.5	198.8	4.5	14137	1.3	0.7	17.4	5.0	13.0	33.4
	Hydrogel 5.0	205.2	2.1	19784	1.4	0.5	17.6	5.1	14.0	34.0
Conventional till + mulching	Control	213.8	6.1	35354	1.9	0.5	17.4	5.3	13.7	34.1
	Hydrogel 2.5	214.7	2.7	34925	1.9	0.4	17.5	5.3	13.4	36.3
	Hydrogel 5.0	216.8	2.0	35815	1.8	0.4	17.8	5.3	13.7	36.6
Zero tillage	Control	218.4	2.0	48020	2.6	0.5	17.5	5.3	12.7	36.4
	Hydrogel 2.5	220.2	1.4	50552	2.5	0.3	17.8	5.4	14.4	36.8
	Hydrogel 5.0	221.0	1.6	51671	2.4	0.3	18.0	5.4	13.8	37.3
Zero tillage + residue (4 t/ha)	Control	225.8	2.2	52072	2.5	0.4	18.0	5.5	12.7	36.5
	Hydrogel 2.5	227.3	0.8	51900	2.4	0.3	18.2	5.5	14.1	37.2
	Hydrogel 5.0	230.8	0.7	50893	2.2	0.2	18.6	5.6	14.4	37.5
Location mean		215.5	3.0	38161.0	2.0	0.5	17.7	5.3	13.6	35.8
C.D.(5%) AiBj-AiBk		31.5	5.4	22831.3	0.6	0.2	1.4	0.2	2.0	3.2
C.D.(5%) AiBk-AjBk		30.7	4.9	21572.3	0.6	0.2	2.5	0.2	1.9	3.0
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS	NS
Conventional till		198.9	5.5	15577	1.4	0.7	17.2	5.0	13.5	33.5
Conventional till + mulching		215.1	3.6	35365	1.9	0.5	17.6	5.3	13.6	35.6
Zero tillage		219.9	1.6	50081	2.5	0.4	17.8	5.4	13.6	36.8
Zero tillage + residue (4 t/ha)		227.9	1.2	51622	2.3	0.3	18.3	5.5	13.7	37.1
C.D. (5%) Ai-Aj		16.8	2.2	10933.9	0.3	0.2	2.3	0.2	0.9	1.5
C.V. (%) Error A		6.8	63.9	24.8	14.0	34.9	11.1	2.9	5.7	3.7
F (5%)		S	S	S	S	S	NS	S	NS	S
Control		212.7	5.1	37064	2.1	0.6	17.4	5.3	13.1	35.0
Hydrogel 2.5		215.3	2.3	37878	2.0	0.4	17.7	5.3	13.7	35.9
Hydrogel 5.0		218.4	1.6	39541	2.0	0.4	18.0	5.4	14.0	36.3
C.D. (5%) Bi-Bj		15.7	2.7	11415.6	0.3	0.1	0.7	0.1	1.0	1.6
C.V. (%) Error B		8.4	103.5	34.6	17.9	22.6	4.5	2.2	8.5	5.1
F (5%)		NS	S	NS	NS	S	NS	NS	NS	NS

Table 67: Enhancing water- use efficiency in rainfed maize in Bhubaneswar.

Tillage practices	Hydrogel (kg/ha)	Grain yield (kg/ha)	Stover yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Days to 50% silking	Days to maturity	1000-grain weight (g)
Conventional till	Control	4454	10324	5710	63.1	150.4	55.0	115.0	277.7
	Hydrogel 2.0	4913	10941	6219	64.5	151.8	55.0	114.0	286.0
	Hydrogel 5.0	5069	11528	6389	63.9	145.0	55.0	113.0	285.7
Conventional till + Mulching	Control	5481	12454	6852	64.4	145.5	56.0	114.0	278.7
	Hydrogel 2.0	5582	12762	7006	63.4	151.2	55.3	113.0	285.7
	Hydrogel 5.0	5776	13148	7160	63.1	145.8	57.0	113.0	286.7
Zero tillage	Control	2882	6327	3843	62.8	137.1	59.3	117.0	264.7
	Hydrogel 2.0	3032	6728	4043	62.0	143.2	59.0	116.0	277.0
	Hydrogel 5.0	3396	7454	4429	64.5	139.6	58.0	116.3	285.7
Zero tillage + residue	Control	3624	7824	4707	62.5	141.0	58.0	116.0	279.7
	Hydrogel 2.0	3802	8333	4938	64.4	140.8	58.0	116.0	285.0
	Hydrogel 5.0	4014	8719	5123	62.2	140.8	57.0	117.0	287.3
Location mean		4335.5	9711.9	5535.0	63.4	144.4	56.9	115.0	281.6
C.D.(5%) AiBj-AiBk		124.6	437.4	149.6	2.0	4.2	2.0	1.9	7.3
C.D.(5%) AiBk-AjBk		242.8	607.4	287.6	2.6	5.0	1.9	1.8	8.8
F(5%)		S	NS	S	S	NS	NS	NS	NS
Conventional tillage		4812	10931	6106	63.8	149.1	55.0	114.0	283.1
Conventional tillage + mulching		5613	12788	7006	63.6	147.5	56.1	113.3	283.7
Zero tillage		3103	6836	4105	63.1	140.0	58.8	116.4	275.8
Zero tillage + residue		3813	8292	4923	63.0	140.9	57.7	116.3	284.0
C.D. (5%) Ai-Aj		220.9	493.1	260.9	2.0	3.7	1.0	0.9	6.4
C.V. (%) Error A		4.4	4.4	4.1	2.7	2.2	1.6	0.7	2.0
F (5%)		S	S	S	NS	S	S	S	NS
Control		4110	9232	5278	63.2	143.5	57.1	115.5	275.2
Hydrogel 2.0		4332	9691	5552	63.6	146.8	56.8	114.8	283.4
Hydrogel 5.0		4564	10212	5775	63.4	142.8	56.8	114.8	286.3
C.D. (5%) Bi-Bj		62.3	218.7	74.8	1.0	2.1	1.0	1.0	3.6
C.V. (%) Error B		1.7	2.6	1.6	1.8	1.7	2.0	1.0	1.5
F (5%)		S	S	S	NS	S	NS	NS	S

Table 68: Enhancing water use efficiency in rainfed maize in Dholi.

Tillage practices	Hydrogel (kg/ha)	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Ear height (cm)
Conventional Till	Control	4804	6555	3650	87.6	87.6	199.3	84.1
	Hydrogel 2.5	5254	7115	2580	87.9	87.9	196.3	78.0
	Hydrogel 5.0	4866	6823	3524	86.7	86.7	193.3	83.3
Conventional Till + Mulching	Control	5111	6877	4712	88.1	88.1	200.0	79.7
	Hydrogel 2.5	5793	7935	5939	88.5	88.5	189.7	87.7
	Hydrogel 5.0	5791	7912	2911	88.1	88.1	194.3	76.7
Zero Tillage	Control	5754	8027	3461	87.9	87.9	202.3	79.7
	Hydrogel 2.5	6092	8280	4712	87.8	87.8	228.7	78.7
	Hydrogel 5.0	5879	8012	4956	88.9	88.9	187.7	75.7
Zero Tillage + Mulching	Control	6055	8380	4303	88.7	88.7	195.7	83.3
	Hydrogel 2.5	6633	8924	3398	87.9	87.9	193.7	81.3
	Hydrogel 5.0	6423	8663	2911	88.3	88.3	196.7	82.3
Location mean		5704.6	7791.9	3921.5	88.0	88.0	198.1	80.9
C.D.(5%) AiBj-AiBk		602.0	812.8	1786.0	2.5	2.5	25.0	9.5
C.D.(5%) AiBk-AjBk		591.4	797.4	1605.8	2.7	2.7	24.7	10.7
F(5%)		NS	NS	S	NS	NS	NS	NS
Conventional till		4975	6831	3252	87.4	87.4	196.3	81.8
Conventional till + mulching		5565	7575	4521	88.2	88.2	194.7	81.3
Zero tillage		5908	8106	4376	88.2	88.2	206.2	78.0
Zero tillage + mulching		6370	8656	3537	88.3	88.3	195.3	82.3
C.D. (5%) Ai-Aj		331.1	445.1	677.4	1.8	1.8	13.9	7.4
C.V. (%) Error A		5.0	5.0	15.0	1.8	1.8	6.1	8.0
F (5%)		S	S	S	NS	NS	NS	NS
Control		5431	7460	4032	88.1	88.1	199.3	81.7
Hydrogel 2.5		5943	8063	4158	88.0	88.0	202.1	81.4
Hydrogel 5.0		5740	7853	3575	88.0	88.0	193.0	79.5
C.D. (5%) Bi-Bj		301.0	406.4	893.0	1.2	1.2	12.5	4.8
C.V. (%) Error B		6.1	6.0	26.3	1.6	1.6	7.3	6.8
F (5%)		S	S	NS	NS	NS	NS	NS

Cont…

Tillage practices	Hydrogel (kg/ha)	Days of 50% tasseling	Days of 50% silking	Days of maturity	Cob length (cm)	Cob girth (cm)	Moisture (%)	Net Return (Rs./ha)	BC Ratio
Conventional Till	Control	59.3	62.7	98.0	16.7	14.7	22.1	9171	0.1
	Hydrogel 2.5	59.7	62.3	97.0	14.0	12.3	21.5	15926	0.3
	Hydrogel 5.0	59.7	62.7	95.7	13.3	11.7	24.2	10098	0.2
Conventional Till + Mulching	Control	61.0	64.7	98.3	15.7	13.0	21.0	13778	0.2
	Hydrogel 2.5	59.7	62.7	97.3	15.0	11.7	22.4	24005	0.4
	Hydrogel 5.0	59.3	62.7	94.7	14.3	11.3	22.2	23977	0.4
Zero Tillage	Control	59.7	63.0	95.3	13.3	11.7	23.8	23427	0.4
	Hydrogel 2.5	60.7	64.0	98.3	15.7	13.0	21.8	28485	0.5
	Hydrogel 5.0	61.7	65.0	97.7	15.0	11.7	22.0	25297	0.4
Zero Tillage + Mulching	Control	60.3	63.3	96.7	14.3	11.3	23.2	27929	0.4
	Hydrogel 2.5	60.3	63.3	97.3	15.7	13.0	21.0	36599	0.6
	Hydrogel 5.0	60.3	63.7	98.0	15.0	11.7	21.2	33448	0.5
Location mean		60.1	63.3	97.0	14.8	12.3	22.2	22678.4	0.4
C.D.(5%) AiBj-AiBk		2.0	2.3	2.4	2.8	2.5		9029.4	0.1
C.D.(5%) AiBk-AjBk		2.7	3.0	3.5	3.4	2.9		8870.5	0.1
F(5%)		NS	NS	S	NS	NS		NS	NS
Conventional till		59.6	62.6	96.9	14.7	12.9	22.6	11732	0.2
Conventional till + mulching		60.0	63.3	96.8	15.0	12.0	21.9	20587	0.3
Zero tillage		60.7	64.0	97.1	14.7	12.1	22.5	25736	0.4
Zero tillage + mulching		60.3	63.4	97.3	15.0	12.0	21.8	32659	0.5
C.D. (5%) Ai-Aj		2.1	2.3	2.9	2.5	2.0		4965.9	0.1
C.V. (%) Error A		3.1	3.2	2.6	14.7	14.2		19.0	19.0
F (5%)		NS	NS	NS	NS	NS		S	S
Control		60.1	63.4	97.1	15.0	12.7	22.5	18576	0.3
Hydrogel 2.5		60.1	63.1	97.5	15.1	12.5	21.7	26254	0.4
Hydrogel 5.0		60.3	63.5	96.5	14.4	11.6	22.4	23205	0.4
C.D. (5%) Bi-Bj		1.0	1.2	1.2	1.4	1.3		4514.7	0.1
C.V. (%) Error B		1.9	2.1	1.5	11.0	11.9		23.0	23.0
F (5%)		NS	NS	NS	NS	NS		S	S

Table 69: Enhancing water use efficiency in rainfed maize in Karimnagar.

Tillage practices	Hydrogel (kg/ha)	Grain yield (kg/ha)	Cob yield (kg/ha)	Stalk yield (kg/ha)	Plant height (cm)	Ear height (cm)	Days to 50% tasseling	Days to 50% silking
Conventional tillage	Control	4565	6370	6555	157.3	71.3	59.7	62.0
	Hydrogel 2.5	4179	5944	6755	155.3	70.0	58.7	61.3
	Hydrogel 5.0	3048	4175	8133	166.3	71.0	59.0	61.3
Conventional tillage + mulching	Control	4312	5960	7555	156.0	74.3	59.0	61.0
	Hydrogel 2.5	4714	6375	8222	160.0	75.3	58.3	60.3
	Hydrogel 5.0	5367	7364	7744	155.3	70.3	59.0	61.3
Zero tillage	Control	7589	9783	7916	156.3	70.3	59.0	61.0
	Hydrogel 2.5	7733	10195	7416	158.7	74.3	59.0	61.0
	Hydrogel 5.0	7669	10111	8861	149.7	64.0	58.0	60.3
Zero tillage + mulching	Control	7348	9229	7389	147.0	67.7	59.3	61.3
	Hydrogel 2.5	7758	9786	6750	152.3	64.7	59.3	61.7
	Hydrogel 5.0	7741	10191	7055	156.7	71.7	58.0	60.7
Location mean		6001.8	7957.0	7529.3	155.9	70.4	58.9	61.1
C.D.(5%) AiBj-AiBk		1127.7	1477.8	1585.7	14.1	7.9	1.5	1.4
C.D.(5%) AiBk-AjBk		1232.9	1615.6	1712.3	15.3	9.6	1.6	1.8
F(5%)		NS	S	NS	NS	NS	NS	NS
Conventional tillage		3930	5496	7148	159.7	70.8	59.1	61.6
Conventional tillage + mulching		4798	6566	7840	157.1	73.3	58.8	60.9
Zero tillage		7663	10030	8064	154.9	69.6	58.7	60.8
Zero tillage + mulching		7616	9736	7065	152.0	68.0	58.9	61.2
C.D. (5%) Ai-Aj		824.5	1080.4	1127.0	10.1	7.1	1.0	1.4
C.V. (%) Error A		11.9	11.8	13.0	5.6	8.8	1.5	2.0
F (5%)		S	S	NS	NS	NS	NS	NS
Control		5953	7836	7354	154.2	70.9	59.3	61.3
Hydrogel 2.5		6096	8075	7286	156.6	71.1	58.8	61.1
Hydrogel 5.0		5956	7961	7948	157.0	69.3	58.5	60.9
C.D. (5%) Bi-Bj		563.9	738.9	792.8	7.0	3.9	0.7	0.7
C.V. (%) Error B		10.9	10.7	12.2	5.2	6.5	1.5	1.3
F (5%)		NS	NS	NS	NS	NS	NS	NS

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Tillage practices	Hydrogel (kg/ha)	Cob length (cm)	Cob girth (cm)	Grains rows/ cob	Grains/ row	Shelling (%)	100-seed weight (g)	Net returns (Rs./ha)	BC ratio
Conventional tillage	Control	16.0	15.4	13.7	26.7	71.7	32.2	37864	1.79
	Hydrogel 2.5	16.0	15.4	14.2	28.7	70.3	33.5	39984	1.82
	Hydrogel 5.0	16.2	16.1	14.2	30.1	73.0	33.8	57532	2.17
Conventional tillage + mulching	Control	16.7	15.4	14.1	25.8	71.8	34.7	49752	2.01
	Hydrogel 2.5	16.4	15.3	13.5	27.0	74.0	32.1	57985	2.17
	Hydrogel 5.0	16.7	15.5	14.4	28.7	73.0	32.3	51226	2.02
Zero tillage	Control	18.5	15.6	14.3	32.7	77.5	33.6	62294	2.50
	Hydrogel 2.5	18.3	15.9	14.7	32.8	75.9	34.6	55254	2.32
	Hydrogel 5.0	18.2	15.4	14.0	32.6	75.8	30.7	73166	2.71
Zero tillage + mulching	Control	18.4	14.9	14.4	32.1	79.6	31.9	54169	2.27
	Hydrogel 2.5	18.4	14.9	14.3	32.5	79.3	32.1	45299	2.05
	Hydrogel 5.0	18.3	15.4	14.4	32.2	76.0	32.0	48302	2.09
Location mean		17.3	15.4	14.2	30.2	74.8	32.8	52735.7	2.16
C.D.(5%) AiBj-AiBk		1.5	1.0	1.1	4.2	3.7	4.1	20772.2	0.45
C.D.(5%) AiBk-AjBk		1.7	1.1	1.1	4.5	4.0	3.6	22431.0	0.49
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS
Conventional tillage		16.1	15.6	14.1	28.5	71.7	33.2	45127	1.93
Conventional tillage + mulching		16.6	15.4	14.0	27.2	72.9	33.0	52988	2.07
Zero tillage		18.3	15.7	14.3	32.7	76.4	33.0	63572	2.51
Zero tillage + mulching		18.4	15.1	14.4	32.3	78.3	32.0	49257	2.14
C.D. (5%) Ai-Aj		1.2	0.7	0.6	2.9	2.7	1.2	14764.0	0.32
C.V. (%) Error A		6.1	4.0	3.7	8.3	3.2	3.3	24.3	12.9
F (5%)		S	NS	NS	S	S	NS	NS	S
Control		17.4	15.3	14.1	29.3	75.2	33.1	51020	2.14
Hydrogel 2.5		17.3	15.4	14.2	30.3	74.9	33.1	49631	2.09
Hydrogel 5.0		17.3	15.6	14.3	30.9	74.4	32.2	57557	2.25
C.D. (5%) Bi-Bj		0.8	0.5	0.5	2.1	1.8	2.1	10386.1	0.23
C.V. (%) Error B		5.1	3.8	4.4	8.0	2.8	7.2	22.8	12.1
F (5%)		NS	NS	NS	NS	NS	NS	NS	NS

Table 70: Enhancing water - use efficiency in rainfed maize in Chhindwara.

Tillage practices	Hydrogel (kg/ha)	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	100-seed weight (g)
Con Tillage	Control	4520	7819	69.4	58.3	192.7	62.0	64.3	33.5
	Hydrogel 2.0	4659	8050	72.2	67.1	194.7	62.0	64.3	35.1
	Hydrogel 5.0	5237	8888	75.9	68.5	203.3	61.7	64.0	35.5
Con Tillage + mulching	Control	4816	8698	73.6	67.5	198.3	61.7	64.0	35.8
	Hydrogel 2.0	6015	10780	76.8	73.1	211.0	61.3	62.7	37.0
	Hydrogel 5.0	6121	11058	75.9	73.6	212.7	61.3	61.3	37.1
Zero tillage	Control	5094	8929	78.2	68.9	204.7	61.3	63.0	35.6
	Hydrogel 2.0	5598	10271	74.5	68.9	205.0	61.0	63.0	36.3
	Hydrogel 5.0	5742	10364	74.0	72.6	205.0	61.0	63.0	36.8
Zero tillage + mulching	Control	5913	10410	74.5	73.1	205.7	59.7	62.7	37.0
	Hydrogel 2.0	6519	11382	81.4	74.5	211.3	59.3	61.3	37.5
	Hydrogel 5.0	6727	11428	81.0	76.3	213.0	57.7	61.0	37.6
Location mean		5580.1	9839.8	75.6	70.2	204.8	60.8	62.9	36.2
C.D.(5%) AiBj-AiBk		864.8	1244.0	5.0	6.3	17.4	1.9	1.3	2.6
C.D.(5%) AiBk-AjBk		952.2	1492.3	4.8	6.1	18.6	1.9	1.6	2.6
F(5%)		NS	NS	S	NS	NS	NS	NS	NS
Conventional tillage		4806	8252	72.5	64.6	196.9	61.9	64.2	34.7
Conventional tillage + mulching		5651	10179	75.4	71.4	207.3	61.4	62.7	36.6
Zero tillage		5478	9855	75.6	70.2	204.9	61.1	63.0	36.2
Zero tillage + mulching		6386	11073	79.0	74.6	210.0	58.9	61.7	37.3
C.D. (5%) Ai-Aj		642.4	1098.5	2.5	3.4	12.1	1.2	1.3	1.5
C.V. (%) Error A		10.0	9.7	2.9	4.2	5.1	1.7	1.7	3.6
F (5%)		S	S	S	S	NS	S	S	S
Control		5086	8964	73.9	67.0	200.3	61.2	63.5	35.4
Hydrogel 2.0		5698	10121	76.2	70.9	205.5	60.9	62.8	36.5
Hydrogel 5.0		5957	10434	76.7	72.8	208.5	60.4	62.3	36.7
C.D. (5%) Bi-Bj		432.4	622.0	2.5	3.1	8.7	0.9	0.6	1.3
C.V. (%) Error B		9.0	7.3	3.8	5.1	4.9	1.8	1.2	4.1
F (5%)		S	S	NS	S	NS	NS	S	NS

Cont…

Tillage practices	Hydrogel (kg/ha)	Net returns (Rs./ha)	BC ratio	Barrenness in maize (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/ row
Con Tillage	Control	52602	2.6	4.6	13.3	12.3	12.2	30.7
	Hydrogel 2.0	53823	2.5	4.2	14.8	12.4	12.9	31.3
	Hydrogel 5.0	61886	2.8	2.6	15.0	13.3	13.1	33.0
Con Tillage + mulching	Control	55418	2.4	2.7	15.0	12.5	13.0	32.7
	Hydrogel 2.0	73718	3.1	2.7	16.3	13.6	13.8	36.3
	Hydrogel 5.0	74571	3.0	3.3	16.4	14.0	14.3	36.3
Zero tillage	Control	64513	3.7	3.4	15.1	13.6	13.1	34.3
	Hydrogel 2.0	72333	3.9	2.5	15.3	14.2	13.5	34.7
	Hydrogel 5.0	73408	3.7	2.3	15.4	14.2	13.5	35.0
Zero tillage + mulching	Control	77289	4.3	2.3	15.6	14.4	13.7	36.0
	Hydrogel 2.0	85929	4.5	2.9	16.5	15.0	14.4	36.7
	Hydrogel 5.0	87809	4.4	1.7	17.4	15.3	14.4	37.7
Location mean		69441.6	3.4	2.9	15.5	13.7	13.5	34.6
C.D.(5%) AiBj-AiBk		11223.1	0.6	1.4	3.4	1.3	1.2	4.7
C.D.(5%) AiBk-AjBk		12834.8	0.7	1.4	3.0	1.6	1.5	4.6
F(5%)		NS	NS	NS	NS	NS	NS	NS
Conventional tillage		56104	2.6	3.8	14.4	12.7	12.7	31.7
Conventional tillage + mulching		67902	2.9	2.9	15.9	13.3	13.7	35.1
Zero tillage		70085	3.8	2.7	15.3	14.0	13.3	34.7
Zero tillage + mulching		83675	4.4	2.3	16.5	14.9	14.2	36.8
C.D. (5%) Ai-Aj		9033.5	0.5	0.8	1.2	1.2	1.1	2.5
C.V. (%) Error A		11.3	11.7	23.5	6.5	7.3	7.1	6.3
F (5%)		S	S	S	S	S	NS	S
Control		62455	3.2	3.2	14.8	13.2	13.0	33.4
Hydrogel 2.0		71451	3.5	3.1	15.7	13.8	13.7	34.8
Hydrogel 5.0		74419	3.5	2.5	16.0	14.2	13.8	35.5
C.D. (5%) Bi-Bj		5611.5	0.3	0.7	1.7	0.7	0.6	2.3
C.V. (%) Error B		9.3	9.8	26.8	12.5	5.5	5.2	7.8
F (5%)		S	NS	NS	NS	S	S	NS

Table 71: Enhancing water-use efficiency in rainfed maize in Udaipur.

Tillage practices	Hydrogel (kg/ha)	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants (000/ha) 25 DAS	Plants (000'ha) AH	Plant height (cm)	Days to 50% tasseling	Days to maturity	Cob length (cm)	Cob girth (cm)	Net returns Rs/ha
Conventional tillage	Control	3485	5230	66.0	62.8	180.6	46.0	92.0	17.3	15.1	29050
	Hydro 2.5	3615	5457	65.6	63.2	185.6	46.3	93.0	17.5	15.4	30837
	Hydro 5.0	3719	5594	66.0	62.5	185.3	46.3	93.3	18.1	15.4	32222
Conventional tillage +Mulch	Control	3719	5642	65.9	63.0	180.2	45.7	93.3	17.0	15.5	32270
	Hydro 2.5	3749	5654	65.7	62.3	185.2	46.7	93.7	17.4	15.2	32642
	Hydro 5.0	3737	5595	65.9	62.5	188.3	47.0	93.7	18.1	15.4	32439
Zero tillage	Control	3522	5296	64.9	63.2	180.7	46.7	94.0	17.1	15.5	29556
	Hydro 2.5	3621	5463	64.9	62.2	185.6	46.0	92.3	17.5	15.2	30919
	Hydro 5.0	3723	5644	66.3	63.9	188.6	46.0	92.0	18.1	15.2	32316
Zero tillage +Resi 4t/ha	Control	3622	5460	65.5	62.5	180.6	46.7	93.0	17.1	15.2	30924
	Hydro 2.5	3730	5607	65.3	62.6	185.8	46.3	92.3	17.5	15.2	32371
	Hydro 5.0	3721	5578	65.6	62.3	188.9	45.3	94.0	17.5	15.2	32234
Location mean		3663.6	5518.6	65.6	62.8	184.6	46.3	93.1	17.5	15.3	31481.9
C.D.(5%) AiBj-AiBk		479.1	699.1	1.1	1.9	12.0	2.6	2.9	0.6	0.4	6441.9
C.D.(5%) AiBk-AjBk		647.2	961.9	1.4	2.2	15.7	2.9	3.1	1.2	0.5	8724.4
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Conventional tillage		3606	5427	65.9	62.9	183.8	46.2	92.8	17.6	15.3	30703
Conventional tillage + mulch		3735	5630	65.8	62.6	184.6	46.4	93.6	17.5	15.4	32450
Zero tillage		3622	5468	65.3	63.1	185.0	46.2	92.8	17.6	15.3	30931
Zero tillage +Resi 4t/ha		3691	5549	65.5	62.5	185.1	46.1	93.1	17.3	15.2	31843
C.D. (5%) Ai-Aj		517.6	777.1	1.0	1.6	12.3	2.0	2.0	1.1	0.3	6987.5
C.V. (%) Error A		12.2	12.2	1.4	2.2	5.8	3.7	1.8	5.2	1.7	19.2
F (5%)		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Control		3587	5407	65.6	62.9	180.5	46.3	93.1	17.1	15.3	30450
Hydrogel 2.5		3679	5545	65.4	62.6	185.6	46.3	92.8	17.5	15.3	31692
Hydrogel 5.0		3725	5603	65.9	62.8	187.8	46.2	93.3	17.9	15.3	32303
C.D. (5%) Bi-Bj		239.5	349.5	0.5	0.9	6.0	1.3	1.5	0.3	0.2	3220.9
C.V. (%) Error B		7.6	7.3	0.9	1.7	3.8	3.2	1.8	2.1	1.7	11.8
F (5%)		NS	NS	NS	NS	NS	NS	NS	S	NS	NS

Table 72: Evaluation of new Bio-fertilizer in maize in Gossaingaon.

Treatment	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha) 25 DAS	Plants ('00/ha) AH	Plant height (cm)	Days to 50 % silking	Days to maturity	Net returns (Rs. /ha)	BC ratio
T_1	7967	10712	80.0	76.4	167.3	41.7	97.7	47320	1.2
T_2	5820	8140	75.2	68.0	143.6	45.3	102.3	30410	0.8
T_3	4144	8477	71.1	71.1	94.6	42.0	109.0	13653	0.4
T_4	4936	7471	75.8	61.6	117.2	41.3	104.3	21573	0.6
T_5	7397	7749	75.8	64.4	118.9	54.7	107.0	44126	1.1
T_6	6367	8941	71.4	57.2	125.2	52.7	108.0	34834	0.9
T_7	7367	8106	75.8	62.8	86.5	47.7	107.0	44082	1.1
T_8	5775	7268	77.2	72.5	78.7	53.3	110.0	28908	0.7
T_9	6312	7654	76.1	71.9	112.1	50.3	106.7	33226	0.8
T_{10}	5220	9083	72.7	68.0	103.5	43.0	98.3	23364	0.6
T_{11}	7173	8654	77.7	69.7	125.3	43.0	97.7	41842	1.1
T_{12}	7735	9442	82.2	74.7	145.1	41.7	97.0	46457	1.1
Mean	6351.1	8474.9	75.9	68.2	118.2	46.4	103.8	34149.6	0.9
CD	2131.9	2061.0	9.3	12.4	14.6	10.0	3.9	21116.6	0.5
CV (%)	19.8	14.4	7.2	10.8	7.3	12.7	2.2	36.5	36.8
Significance	S	NS	NS	NS	S	NS	S	S	NS

Treatments details:

T_1 Control (Recommended N and K)*
T_2 PSB-1
T_3 PSB-2
T_4 NPK Consortia
T_5 60 kg P2O5/ha
T_6 30 kg P2O5/ha+PSB-1
T_7 60 kg P2O5/ha+PSB-1
T_8 30 kg P2O5/ha+PSB-11
T_9 60 kg P2O5/ha+PSB-11
T_{10} 30 kg P2O5/ha+ NPK Consortia
T_{11} 60 kg P2O5/ha+ NPK Consortia
T_{12} 90 kg P2O5/ha

Table 73: Phosphorus Bio-fertilizers evaluation in rainfed maize in Imphal.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Days to 80% physiological maturity
T_1	4074	8840	74.6	184.9	58.3	60.3	105.3
T_2	3755	8054	71.1	203.1	58.0	60.0	105.0
T_3	3664	7893	71.5	176.9	58.7	61.0	105.3
T_4	5328	11421	77.5	195.9	60.3	62.3	106.3
T_5	4856	10586	74.7	181.9	58.7	60.7	105.0
T_6	5121	10875	75.0	192.1	58.3	60.3	104.7
T_7	5816	12089	76.1	193.3	60.0	62.0	106.0
T_8	5002	10696	75.0	187.9	59.3	61.3	106.0
T_9	6037	12522	74.7	203.5	57.7	59.7	105.3
T_{10}	5609	11564	71.3	192.5	58.0	60.0	105.0
T_{11}	5913	12305	76.5	196.7	58.7	60.7	105.3
T_{12}	5046	10695	71.4	200.5	57.3	59.3	104.7
Mean	5018.3	10628.3	74.1	192.4	58.6	60.6	105.3
CD	1360.9	2743.2	7.2	25.3	2.5	2.4	1.4
CV (%)	16.0	15.2	5.7	7.8	2.6	2.4	0.8
Significance	S	S	NS	NS	NS	NS	NS

Treatment	100-seed weight (g)	Shelling (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row	Grains/cob
T_1	33.0	74.0	17.7	14.4	12.9	33.2	387.4
T_2	32.3	77.6	17.3	14.4	12.9	32.1	376.9
T_3	33.7	76.3	17.2	14.5	12.8	30.9	380.0
T_4	33.5	80.3	17.9	14.9	12.7	34.2	430.6
T_5	30.7	80.2	16.3	14.5	13.1	30.7	415.4
T_6	34.7	78.1	15.5	14.5	12.8	30.3	421.7
T_7	35.3	79.4	17.4	14.8	13.2	31.8	435.5
T_8	33.4	75.0	15.5	14.6	12.9	26.5	416.9
T_9	34.8	79.3	15.9	14.8	12.7	27.3	430.1
T_{10}	33.2	79.3	17.3	14.5	12.6	32.4	427.3
T_{11}	33.3	79.6	16.9	14.7	13.3	31.5	435.9
T_{12}	35.6	75.5	16.9	14.4	12.9	32.1	430.5
Mean	33.6	77.9	16.8	14.6	12.9	31.1	415.7
CD	4.5	5.5	2.9	1.1	1.0	7.4	56.3
CV (%)	7.8	4.2	10.3	4.5	4.3	14.0	8.0
Significance	NS	NS	NS	NS	NS	NS	NS

Table 74: Evaluation of new bio-fertilizers in maize in Srinagar.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)
T_1	4147	13197	81.5	82.8	251.0	87.0	91.0	23.6
T_2	4039	12433	82.1	97.0	247.7	87.3	92.0	24.5
T_3	4165	12410	81.8	90.9	251.7	87.3	91.7	24.4
T_4	4227	12558	82.7	87.5	253.0	86.3	90.0	25.2
T_5	4312	12653	82.6	85.0	250.7	84.3	88.7	23.6
T_6	4316	12635	82.5	88.7	221.3	86.7	90.3	24.5
T_7	4704	12302	82.8	97.5	220.0	86.0	90.7	24.9
T_8	4468	12734	82.7	96.6	219.7	85.3	89.7	25.3
T_9	5002	12753	82.9	99.7	220.7	84.3	89.3	25.0
T_{10}	4538	12363	83.1	90.8	217.7	84.0	88.3	24.5
T_{11}	4726	12605	82.7	91.0	219.0	83.0	88.0	24.9
T_{12}	4585	12471	82.4	91.9	218.0	86.0	89.7	24.8
Mean	4435.7	12592.9	82.5	91.6	232.5	85.6	89.9	24.6
CD	329.5	578.8	1.1	2.1	9.9	2.1	2.0	1.6
CV (%)	4.4	2.7	0.8	1.3	2.5	1.5	1.3	3.9
Significance	S	NS	NS	S	S	S	S	NS

Treatment	Net returns (Rs. /ha)	BC ratio	Barrenness in maize (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
T_1	106536	1.8	11.0	20.2	12.5	12.2	39.1
T_2	109193	1.9	12.5	19.5	11.9	11.8	41.0
T_3	113910	2.0	11.5	20.1	11.2	12.5	41.7
T_4	85631	1.5	11.6	19.3	13.0	11.6	41.1
T_5	88587	1.5	12.6	19.5	11.1	10.7	42.5
T_6	94167	1.6	12.2	21.2	11.4	12.0	45.3
T_7	116810	2.1	11.1	22.0	13.1	13.5	47.1
T_8	120922	2.2	10.9	21.7	11.6	14.2	46.6
T_9	127211	2.3	9.9	24.0	11.4	12.3	49.9
T_{10}	100135	1.7	12.8	20.7	13.1	11.3	40.3
T_{11}	104023	1.8	13.9	21.9	12.1	11.8	40.9
T_{12}	107092	1.9	12.6	20.7	12.0	11.0	43.1
Mean	106184.7	1.9	11.9	20.9	12.0	12.1	43.2
CD	4396.9	0.1	2.0	2.7	1.6	1.7	3.8
CV (%)	2.4	2.0	10.2	7.6	7.9	8.3	5.2
Significance	S	S	S	NS	NS	S	S

Table 75: Evaluation of New bio-fertilizers in maize in Kanpur.

Treatments	Grain yield (kg/ha)	Cab yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Days to 50%Silking
T_1	4347.2	5902.8	55.0	161.3	53.0
T_2	4416.7	6152.8	54.4	162.3	55.0
T_3	4513.9	6166.7	53.6	161.7	55.0
T_4	4597.2	6236.1	54.2	161.7	53.0
T_5	4569.4	6166.7	54.2	161.3	54.3
T_6	4736.1	6166.7	52.8	163.0	53.7
T_7	4847.2	6236.1	53.9	164.0	53.0
T_8	4930.6	6291.7	54.2	163.7	52.0
T_9	4916.7	6125.0	53.9	163.7	54.7
T_{10}	4694.4	6041.7	53.3	161.3	53.7
T_{11}	4958.3	6055.6	53.3	163.3	54.0
T_{12}	4861.1	5916.7	53.9	162.0	53.7
Mean	4699.1	6121.5	53.9	162.4	53.8
CD	204.2	103.3	1.9	2.2	2.3
CV (%)	2.6	1.0	2.0	0.8	2.5
Significance	S	S	NS	NS	NS

Table 76: Evaluation of new bio fertilizers in maize in Karnal.

Treatments	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Days to maturity	Net returns (Rs./ha)	BC ratio
T_1	5868	7244	69.5	168.7	57.3	59.3	88.7	38759	1.77
T_2	5979	7382	69.2	170.7	57.0	59.0	88.3	41774	1.83
T_3	5963	7362	69.6	173.3	56.7	58.7	89.0	41537	1.82
T_4	6086	7514	69.7	170.7	56.3	58.3	89.7	43362	1.86
T_5	6115	7549	69.2	173.7	57.0	59.0	89.3	40752	1.76
T_6	6034	7450	69.3	173.0	56.3	58.3	88.0	43507	1.84
T_7	6206	7662	69.8	173.0	56.0	58.0	88.0	44470	1.83
T_8	6072	7496	69.1	173.7	57.0	59.0	88.7	44068	1.85
T_9	6204	7659	69.8	171.7	56.0	58.0	88.0	42438	1.79
T_{10}	6301	7779	69.3	174.0	56.3	58.3	90.0	47468	1.91
T_{11}	6410	7914	69.7	175.7	57.0	59.0	90.3	47524	1.89
T_{12}	6206	7662	69.8	173.7	57.3	59.3	90.0	43057	1.78
Mean	6120.4	7556.1	69.5	172.6	56.7	58.7	89.0	43226.4	1.83
CD	199.8	246.7	1.5	6.0	1.3	1.3	2.4	2970.6	0.06
CV (%)	1.9	1.9	1.3	2.1	1.4	1.3	1.6	4.1	1.81
Significance	S	S	NS	NS	NS	NS	NS	S	S

Table 77: Evaluation of new bio-fertilizers in maize in Ludhiana.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha) 25 DAS	Plants ('000/ha) AH	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	Net returns (Rs/ha)	BC ratio
T_1	5815	9127	82.4	81.8	79.3	190.7	57.7	59.3	41350	0.9
T_2	5988	9432	79.3	78.7	77.8	192.7	58.0	60.0	40596	0.8
T_3	5920	9262	81.5	80.9	78.7	191.7	60.7	62.7	39526	0.8
T_4	6080	9608	81.2	79.9	78.1	200.0	58.3	60.3	41999	0.9
T_5	6065	9463	80.9	80.2	78.1	195.0	56.7	58.7	41699	0.9
T_6	6022	9451	81.2	80.6	78.4	194.3	57.0	59.0	42714	0.9
T_7	6417	10043	80.6	79.6	77.5	202.3	57.7	59.7	46891	1.0
T_8	6028	9340	80.9	79.9	77.5	192.3	59.3	61.3	42685	0.9
T_9	6219	9762	81.8	80.9	78.7	201.0	59.7	61.7	43993	0.9
T_{10}	6460	10145	82.1	81.2	80.2	204.0	57.0	59.0	49216	1.1
T_{11}	6651	10503	83.0	81.8	80.6	205.0	57.3	59.3	50459	1.0
T_{12}	6355	9917	81.2	80.9	78.4	201.7	58.3	60.3	44347	0.9
Mean	6168.2	9671.0	81.3	80.5	78.6	197.6	58.1	60.1	43789.7	0.9
CD	478.0	728.6	3.4	2.8	3.1	18.1	4.2	4.4	7051.3	0.1
CV (%)	4.6	4.4	2.5	2.1	2.3	5.4	4.2	4.3	9.5	9.5
Significance	S	S	NS	NS	NS	NS	NS	NS	NS	NS

Table 78: Evaluation of new bio-fertilizers in maize in Pantnagar.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants (000'/ha) at 25 DAS	Plants (000'/ha) AH	Cobs ('000/ha)	Days to 50% tasseling	Days to 50% silking	Plant height (cm)
T_1	5224	8133	82.3	82.3	83.8	57.0	62.0	125.6
T_2	5426	8534	83.9	83.9	84.0	60.3	64.7	130.5
T_3	5521	8623	83.5	83.5	84.5	59.3	64.0	132.3
T_4	5585	8696	81.6	81.6	84.9	60.0	64.3	131.6
T_5	5668	8255	83.0	83.0	84.7	59.3	64.0	133.9
T_6	5868	8781	82.0	82.0	84.9	59.3	63.3	134.5
T_7	6135	9224	84.7	84.7	87.8	60.0	63.3	141.1
T_8	5956	9157	83.9	83.9	84.7	59.7	63.7	137.8
T_9	6268	9556	84.3	84.8	89.5	61.7	64.7	145.0
T_{10}	5801	9246	85.1	85.1	84.9	60.3	64.7	133.3
T_{11}	6049	9289	83.4	84.0	85.8	60.7	64.3	141.9
T_{12}	5889	9246	83.8	83.8	85.1	60.7	64.7	138.3
Mean	5782.5	8895.0	83.5	83.5	85.4	59.9	64.0	135.5
CD	471.1	449.6	3.5	3.5	6.0	2.2	2.2	11.6
CV (%)	4.8	3.0	2.5	2.5	4.1	2.2	2.0	5.1
Significance	S	S	NS	NS	NS	S	NS	NS

Treatments	Grains/row	Cob length (cm)	Days to maturity	Grains rows/cob	100 grain wt (g)	Net return (Rs./ha)	BC ratio
T_1	20.5	13.6	101.7	13.1	25.6	46484	1.87
T_2	20.9	14.1	107.3	13.4	25.9	48537	1.90
T_3	20.9	14.0	108.3	13.6	25.8	49834	1.95
T_4	21.1	14.1	108.0	13.5	25.8	50703	1.98
T_5	21.0	14.0	111.0	13.8	26.3	50137	1.84
T_6	21.5	14.2	110.0	13.8	26.5	53363	2.00
T_7	22.7	14.8	112.7	14.0	27.0	56457	2.07
T_8	21.7	14.5	109.7	13.9	26.5	54573	2.04
T_9	23.9	14.9	114.7	14.1	27.8	58267	2.13
T_{10}	21.6	14.0	110.0	13.7	26.2	52448	1.96
T_{11}	21.7	14.5	110.7	14.0	26.7	55278	2.03
T_{12}	21.3	14.6	111.3	13.8	26.6	51951	1.82
Mean	21.5	14.3	109.6	13.7	26.4	52336.1	1.97
CD	1.2	0.5	4.0	0.6	2.4	6431.1	0.24
CV (%)	3.4	2.1	2.1	2.5	5.4	7.3	7.2
Significance	S	S	S	NS	NS	S	NS

Table 79: Evaluation of new bio-fertilizers in maize in Ambikapur.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	100-seed weight (g)
T_1	2528	4292	61.1	58.3	181.3	53.0	55.0	30.8
T_2	2866	4799	61.4	58.9	187.3	52.3	54.3	31.2
T_3	3068	5101	61.7	59.5	192.9	52.0	54.0	31.3
T_4	2755	4633	61.2	58.6	184.0	52.3	54.7	31.0
T_5	4255	6882	64.5	62.8	231.4	50.3	52.3	32.1
T_6	3851	6326	64.2	62.3	226.6	51.0	53.0	31.6
T_7	4730	7595	65.4	63.9	235.4	49.7	51.7	32.3
T_8	4075	6653	65.7	63.7	228.0	51.0	52.7	31.8
T_9	4898	7847	64.8	63.7	236.9	49.3	51.3	32.5
T_{10}	3785	6272	65.1	62.8	224.1	51.3	53.3	31.4
T_{11}	4543	7365	65.7	64.0	233.5	50.0	52.0	32.2
T_{12}	5034	8001	64.2	63.1	238.9	49.0	51.0	32.8
Mean	3865.7	6313.7	63.8	61.8	216.7	50.9	52.9	31.8
CD	623.4	839.6	5.4	5.2	17.6	2.5	2.5	3.0
CV (%)	9.5	7.9	5.0	4.9	4.8	2.9	2.8	5.6
Significance	S	S	NS	NS	S	S	S	NS

Treatment	Barrenness in maize (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row	Net returns (Rs. /ha)	BC ratio
T_1	4.6	15.1	13.2	10.7	21.6	12010	0.5
T_2	4.1	15.9	13.5	11.1	22.8	16565	0.7
T_3	3.6	16.3	13.8	11.3	23.3	19298	0.9
T_4	4.2	15.6	13.3	10.9	22.3	15059	0.7
T_5	2.6	18.1	14.8	12.2	25.9	32505	1.3
T_6	3.1	17.4	14.4	11.8	24.9	27970	1.1
T_7	2.2	18.7	15.1	12.8	27.1	38910	1.5
T_8	3.0	17.7	14.5	12.0	25.6	31024	1.3
T_9	1.7	18.8	15.3	13.1	27.4	41201	1.6
T_{10}	3.5	17.0	14.2	11.7	24.6	27082	1.1
T_{11}	2.6	18.4	14.9	12.6	26.6	36398	1.4
T_{12}	1.7	18.9	15.4	13.3	27.6	42072	1.6
Mean	3.1	17.3	14.4	12.0	25.0	28341.1	1.1
CD	1.3	1.7	1.2	1.1	2.6	8392.2	0.3
CV (%)	25.9	5.9	5.1	5.2	6.2	17.5	17.3
Significance	S	S	S	S	S	S	S

Table 80: Evaluation of new bio-fertilizer in maize crop in Bahraich.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants (000/ha) at 25 DAS	Plant population (000/ha) AH	Cobs ('000)/ha	Plant height (cm)	Days to 50% silking
T_1	3021	4062	82.9	82.8	82.7	158.3	56.3
T_2	3443	4601	76.1	82.7	82.7	161.0	54.3
T_3	3520	4574	82.9	82.8	82.8	165.3	53.3
T_4	3655	4665	82.9	82.8	82.7	169.0	52.3
T_5	4652	5398	82.8	82.7	83.7	182.0	51.7
T_6	3922	4892	82.8	82.7	82.7	175.3	53.7
T_7	4952	5670	82.8	82.7	82.7	184.7	51.7
T_8	3099	4025	82.8	82.8	82.7	175.7	54.0
T_9	4835	5948	82.9	82.8	82.7	186.7	51.7
T_{10}	3165	4145	82.8	82.7	82.7	178.7	54.7
T_{11}	4661	5658	82.9	82.8	82.8	180.3	50.7
T_{12}	4862	6018	82.8	82.7	82.7	187.7	50.3
Mean	3982.2	4971.4	82.3	82.7	82.8	175.4	52.9
CD	63.9	53.8	2.8	0.1	0.9	1.2	1.0
CV (%)	0.9	0.6	2.0	0.0	0.6	0.4	1.1
Significance	S	S	S	NS	NS	S	S

Treatments	Days to maturity	Cobs length (cm)	Cob girth (cm)	Grains row/cobs	Grains/row	Net Return (Rs./ha)	BC ratio
T_1	97.7	13.1	11.2	12.0	17.7	26356	2.3
T_2	98.7	14.6	12.7	13.0	19.0	32298	2.6
T_3	98.7	14.7	12.8	13.7	19.0	33354	2.6
T_4	99.3	14.8	13.5	14.0	18.7	35335	2.7
T_5	102.3	17.3	16.5	15.3	21.3	48522	3.2
T_6	100.3	15.5	14.8	14.0	19.7	38795	2.8
T_7	104.3	17.8	16.8	15.7	22.7	53160	3.4
T_8	102.3	14.7	14.6	14.3	18.7	27416	2.3
T_9	105.7	18.4	16.7	16.7	23.7	51138	3.3
T_{10}	103.3	16.7	14.7	14.3	18.7	26955	2.2
T_{11}	104.7	18.5	16.7	17.3	24.7	47917	3.1
T_{12}	105.7	18.6	16.5	18.0	25.7	50081	3.1
Mean	101.9	16.2	14.8	14.9	20.8	39277.3	2.8
CD	1.0	0.3	0.2	0.8	0.9	1024.8	0.0
CV (%)	0.6	1.1	0.8	3.1	2.5	1.5	1.0
Significance	S	S	S	S	S	S	S

Table 81: Evaluation of new bio-fertilizer in maize in Bhubaneswar.

Treatment	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Days to 50% silking	Days to maturity	100 grain weight (g)	Grains/ row	Net return (Rs./ha)	BC ratio
T_1	4186	5441	12391	60.7	55.0	114.7	22.8	11.9	31851	0.88
T_2	5622	7308	15262	63.4	56.0	115.3	25.3	12.7	53699	1.49
T_3	5887	7654	15602	62.1	55.0	114.0	25.7	12.8	57559	1.60
T_4	6060	7878	16227	64.7	58.0	116.7	26.2	13.1	60472	1.68
T_5	6212	8076	16295	64.1	56.0	113.0	26.4	13.7	60604	1.59
T_6	6198	8057	16320	62.4	56.0	114.0	26.3	14.1	61391	1.66
T_7	6270	8151	16442	63.4	56.0	113.7	26.6	14.2	61469	1.62
T_8	6188	8045	16396	63.0	56.7	114.0	27.3	14.5	61341	1.66
T_9	6299	8189	16547	64.2	55.7	113.0	27.8	14.5	61958	1.63
T_{10}	6259	8136	16505	64.2	56.0	113.0	27.5	14.8	62381	1.68
T_{11}	6507	8460	16736	64.6	56.0	113.3	29.4	14.3	64909	1.71
T_{12}	6419	8344	16698	64.2	54.3	114.0	28.9	15.5	62445	1.59
Mean	6008.9	7811.5	15951.7	63.4	55.9	114.1	26.7	13.8	58340.0	1.56
CD	355.5	462.1	2466.2	1.5	1.7	2.1	2.0	1.1	4468.2	0.12
CV (%)	3.5	3.5	9.1	1.4	1.8	1.1	4.4	4.6	4.5	4.5
Significance	S	S	NS	S	S	NS	S	S	S	S

Table 82: Evaluation of new bio-fertilizers in maize in Chitrakoot.

Treatment	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha) 25 DAS	Plants ('000/ha) AH	Cobs ('000/ha)	Days to 50% silking	Days to 50% maturity
T_1	3685	7618	8123	88.9	72.2	88.9	67.7	92.3
T_2	3814	9231	8294	93.3	72.2	100.0	69.0	91.0
T_3	3878	9399	8221	92.5	68.5	94.4	69.0	90.3
T_4	4058	9292	8959	93.5	71.3	94.4	68.3	91.0
T_5	4141	8788	8560	86.9	65.7	94.4	69.0	90.3
T_6	4487	9573	8998	89.7	69.4	94.4	69.0	91.0
T_7	4406	9837	9353	85.0	64.8	88.9	69.0	91.7
T_8	3939	9610	8616	90.7	69.4	100.0	69.0	91.0
T_9	4410	9500	9651	66.0	74.0	94.4	67.7	92.3
T_{10}	4480	9867	9130	89.6	70.4	88.9	69.0	90.3
T_{11}	4990	11934	9854	88.9	69.4	100.0	68.3	90.3
T_{12}	4143	10447	8902	96.3	69.4	88.9	68.3	92.3
Mean	4202.6	9591.3	8888.4	88.4	69.7	94.0	68.6	91.2
CD	596.8	1576.8	818.4	26.2	9.3	16.6	1.3	1.6
CV (%)	8.4	9.7	5.4	17.5	7.8	10.4	1.1	1.1
Significance	S	S	S	N.S.	N.S.	N.S.	N.S.	N.S.

Treatment	Plant height (cm)	Cob length (cm)	Cob girth (cm)	Grain row/cob	1000-grain weight (g)	Net returns (Rs./ha)	BC ratio
T_1	235.3	16.3	13.0	12.3	196.3	98331	5.8
T_2	240.3	18.7	13.0	12.9	203.3	102317	6.0
T_3	235.0	17.8	12.5	12.4	196.7	104158	6.1
T_4	234.7	19.7	13.0	12.7	197.7	110289	6.4
T_5	231.0	20.4	12.5	13.0	213.7	109809	5.8
T_6	233.7	18.0	13.0	13.1	209.7	121912	6.6
T_7	242.3	18.6	12.7	12.5	213.3	118552	7.5
T_8	241.0	18.6	12.5	12.8	200.7	106107	5.7
T_9	245.7	18.5	12.8	13.3	200.0	118969	6.2
T_{10}	235.7	18.8	12.7	13.3	206.3	120872	6.3
T_{11}	234.0	20.1	13.3	13.6	212.0	136549	6.9
T_{12}	233.7	16.8	13.5	12.6	203.0	112898	5.7
Mean	236.9	18.5	12.9	12.9	204.4	113396.9	6.2
CD	10.2	2.1	1.3	1.4	12.1	17862.9	1.3
CV (%)	2.5	6.8	5.9	6.4	3.5	9.3	12.5
Significance	N.S.	S	N.S.	N.S.	S	S	N.S.

Table 83: Evaluation of new bio-fertilizers in maize in Dholi.

Treatments	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Ear height (cm)
T_1	5583	7097	4800	77.6	77.3	193.7	78.0
T_2	5718	7249	8389	78.7	79.1	190.0	76.0
T_3	6509	8301	6656	81.1	80.9	190.7	76.7
T_4	5429	6957	7000	79.6	79.8	187.3	80.7
T_5	6166	7811	5933	81.6	82.0	196.3	78.7
T_6	6416	8175	6656	80.7	80.7	195.3	78.0
T_7	5743	7279	7000	78.9	78.4	188.0	76.3
T_8	5866	7417	5933	78.4	77.6	193.7	79.7
T_9	6245	7993	5156	77.8	76.9	193.7	77.3
T_{10}	5478	7025	3644	78.9	79.6	197.3	77.3
T_{11}	5824	7350	4800	78.2	78.4	197.7	77.3
T_{12}	6442	8119	8389	81.3	81.6	188.3	71.7
Mean	5951.5	7564.3	6196.3	79.4	79.4	192.7	77.3
CD	267.7	315.2	2117.8	2.8	2.3	9.6	8.0
CV (%)	2.7	2.5	20.2	2.0	1.7	2.9	6.1
Significance	S	S	S	S	S	NS	NS

Treatments	Days of 50% tasseling	Days of 50% silking	Days of maturity	Cob length (cm)	Cob girth (cm)	Moisture (%)	Net return (Rs./ha)	BC ratio
T_1	55.3	58.3	94.7	14.0	12.0	16.4	20855	0.25
T_2	55.3	58.0	95.3	14.0	12.7	16.2	22882	0.26
T_3	54.7	57.7	94.7	14.0	12.3	16.8	34750	0.35
T_4	55.3	58.3	95.0	14.7	12.3	17.1	18548	0.23
T_5	54.7	57.7	93.7	13.7	11.7	16.2	29595	0.32
T_6	55.0	57.3	95.3	16.3	13.0	16.7	33343	0.35
T_7	55.7	59.0	95.7	16.7	14.7	16.2	23257	0.27
T_8	54.7	57.0	94.7	14.0	12.3	16.0	25101	0.28
T_9	54.3	57.3	95.0	13.3	11.7	17.0	30788	0.33
T_{10}	55.0	58.0	95.7	15.7	13.0	17.3	19273	0.23
T_{11}	55.0	58.3	94.7	15.0	11.7	15.8	24465	0.28
T_{12}	54.7	57.7	94.7	14.3	11.3	15.7	33735	0.35
Mean	55.0	57.9	94.9	14.6	12.4	16.4	26382.6	0.29
CD	2.3	2.8	2.2	2.8	2.6	2.2	4015.9	0.03
CV (%)	2.5	2.8	1.4	11.2	12.3	7.8	9.0	6.5
Significance	NS	NS	NS	NS	NS	NS	S	S

Table 84: Evaluation of new bio-fertilizer in maize in Kalyani.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha) 25 DAS	Plants ('000/ha) AH	Plant height (cm)	Days to 50% silking	Days to maturity
T_1	10106	12196	82.6	82.2	215.7	52.0	97.3
T_2	6711	8833	80.4	80.1	187.3	52.3	97.7
T_3	6898	8940	80.9	80.5	191.3	51.7	96.0
T_4	10303	12452	81.2	80.9	220.3	52.3	97.3
T_5	7271	9401	83.1	82.7	193.3	52.7	97.7
T_6	7811	9876	81.8	81.4	199.0	52.7	99.0
T_7	8013	10039	81.9	81.4	204.0	52.3	97.3
T_8	8101	10158	82.2	82.0	207.3	52.7	98.3
T_9	9109	11165	82.4	82.1	210.0	52.3	97.7
T_{10}	11295	13332	83.3	83.1	223.3	52.0	97.3
T_{11}	12297	14232	83.3	83.3	230.0	51.7	95.7
T_{12}	7500	9442	80.1	79.9	195.0	52.7	98.0
Mean	8784.6	10839.0	81.9	81.6	206.4	52.3	97.4
CD	208.7	199.1	0.5	0.6	17.0	1.9	3.8
CV (%)	1.4	1.1	0.4	0.4	4.9	2.2	2.3
Significance	S	S	S	S	S	NS	NS

Treatment	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row	100 seed weight (g)	Net return (Rs./ha)	BC ratio
T_1	20.0	14.2	14.0	29.0	31.4	80748	2.99
T_2	13.7	12.0	11.3	23.7	28.2	46193	2.33
T_3	14.7	12.1	10.7	24.0	28.6	48801	2.39
T_4	21.2	14.6	15.3	28.5	32.0	89250	3.59
T_5	16.9	12.2	11.3	24.7	31.3	50013	2.34
T_6	16.3	12.5	11.3	25.0	29.4	57895	2.61
T_7	17.2	12.7	12.7	25.3	29.9	58821	2.57
T_8	18.2	13.1	12.7	26.5	30.4	61366	2.71
T_9	19.1	13.5	13.7	27.0	30.8	71971	2.92
T_{10}	21.3	15.3	15.3	29.5	32.8	99649	3.77
T_{11}	24.4	16.3	18.0	31.0	33.8	110173	3.94
T_{12}	15.5	12.2	12.0	25.0	27.7	51258	2.32
Mean	18.2	13.4	13.2	26.6	30.5	68844.9	2.87
CD	2.2	0.7	2.3	1.7	1.8	2538.4	0.07
CV (%)	7.0	3.1	10.4	3.7	3.6	2.2	1.53
Significance	S	S	S	S	S	S	S

Table 85 Evaluation of new bio-fertilizers in maize in Ranchi.

Treatment	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Barrenness in maize (%)
T_1	2107	2644	3576	60.3	57.5	172.7	51.3	56.0	4.6
T_2	2389	2989	3999	60.8	58.3	178.4	51.0	55.3	4.1
T_3	2556	3183	4251	61.1	58.9	183.7	50.7	55.0	3.6
T_4	2296	2884	3861	60.6	58.1	175.2	51.0	55.7	4.2
T_5	3546	4392	5735	63.9	62.2	220.4	49.7	53.3	2.6
T_6	3209	3988	5271	63.6	61.7	215.8	50.0	54.0	3.1
T_7	3942	4852	6329	64.7	63.3	224.2	49.3	52.7	2.2
T_8	3396	4212	5544	65.0	63.1	217.2	50.0	53.7	3.0
T_9	4082	5023	6539	64.2	63.1	225.6	49.3	52.3	1.7
T_{10}	3154	3923	5226	64.4	62.2	213.5	50.3	54.3	3.5
T_{11}	3786	4692	6137	65.0	63.3	222.3	49.7	53.0	2.6
T_{12}	4195	5136	6667	63.6	62.5	227.5	49.0	52.0	1.7
Mean	3221.4	3993.2	5261.4	63.1	61.2	206.4	50.1	53.9	3.1
CD	519.5	589.1	699.7	5.4	5.6	16.8	2.8	2.5	1.3
CV (%)	9.5	8.7	7.9	5.1	5.4	4.8	3.2	2.7	25.9
Significance	S	S	S	NS	NS	S	NS	S	S

Treatment	Cob length (cm)	Cob breadth (cm)	Grain rows/cob	Grains/row	Grains/cob	100-grain weight (g)	Net return (Rs/ha)	BC ratio
T_1	14.3	12.6	10.5	20.5	208.3	30.2	6149	0.26
T_2	15.2	12.8	10.9	21.7	228.8	30.6	10064	0.43
T_3	15.6	13.2	11.1	22.2	240.5	30.7	12417	0.53
T_4	14.8	12.7	10.7	21.3	221.4	30.4	8767	0.37
T_5	17.2	14.1	12.0	24.7	303.2	31.5	22867	0.84
T_6	16.6	13.7	11.5	23.7	280.6	31.0	19849	0.78
T_7	17.8	14.4	12.5	25.8	332.5	31.7	28375	1.05
T_8	16.8	13.8	11.8	24.4	294.9	31.1	22478	0.89
T_9	17.9	14.6	12.8	26.1	343.7	31.8	30347	1.12
T_{10}	16.2	13.5	11.5	23.5	274.7	30.8	19085	0.75
T_{11}	17.5	14.2	12.3	25.3	321.0	31.6	26211	0.97
T_{12}	18.0	14.6	13.1	26.3	354.1	32.1	30211	1.05
Mean	16.5	13.7	11.7	23.8	283.6	31.1	19734.9	0.75
CD	1.7	1.2	1.0	2.5	40.9	2.9	7227.3	0.27
CV (%)	5.9	5.1	5.2	6.2	8.5	5.6	21.6	21.4
Significance	S	S	S	S	S	NS	S	S

Table 86: Evaluation of new bio fertilizers in maize in Coimbatore.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking
T_1	6523	11185	63.7	60.8	222.3	53.3	57.0
T_2	4461	7718	63.3	60.4	197.3	50.3	54.3
T_3	4493	7873	62.3	59.8	198.1	50.3	54.3
T_4	4552	7975	61.4	58.7	199.7	50.3	54.0
T_5	4363	7548	62.7	60.0	193.3	49.7	53.3
T_6	4691	8105	62.0	58.3	202.4	50.7	54.7
T_7	4896	8471	63.9	61.4	204.9	51.0	55.3
T_8	4785	8278	62.9	59.7	203.6	50.7	54.3
T_9	4967	8593	61.4	58.9	205.7	51.0	55.0
T_{10}	5092	8809	63.1	59.9	207.2	51.3	55.7
T_{11}	5308	9283	62.2	60.4	210.4	51.7	55.7
T_{12}	4394	7702	63.1	60.4	195.2	49.7	53.7
Mean	4877.1	8461.6	62.7	59.9	203.3	50.8	54.8
CD	820.7	1842.9	4.5	4.6	45.3	3.0	3.6
CV (%)	9.9	12.9	4.2	4.5	13.1	3.5	3.9
Significance	S	S	NS	NS	NS	NS	NS

Treatment	100-seed weight (g)	Net returns (Rs./ha)	BC ratio	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
T_1	38.7	63292	2.4	19.3	14.7	14.3	36.3
T_2	36.0	33629	1.8	15.3	13.4	13.0	32.2
T_3	36.0	34264	1.8	15.3	13.4	13.0	32.5
T_4	36.3	35251	1.9	15.4	13.7	13.0	32.7
T_5	35.7	29189	1.7	14.8	13.2	12.4	32.0
T_6	36.3	35826	1.8	15.9	13.9	13.5	33.1
T_7	37.0	37842	1.9	16.4	14.1	13.5	34.0
T_8	36.7	37409	1.9	16.1	14.0	13.5	33.3
T_9	37.3	39029	1.9	16.5	14.1	13.6	34.3
T_{10}	37.3	42540	2.0	16.8	14.2	13.7	34.3
T_{11}	37.6	44834	2.0	17.2	14.4	13.7	34.7
T_{12}	35.7	28388	1.6	14.9	13.2	12.4	32.0
Mean	36.7	38457.7	1.9	16.2	13.9	13.3	33.5
CD	6.6	13100.7	0.3	3.5	2.5	0.7	6.3
CV (%)	10.6	20.1	9.4	12.7	10.8	3.2	11.1
Significance	NS	S	S	NS	NS	S	NS

Table 87: Evaluation of new bio-fertilizers in maize in Dharwad.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha) 25 DAS	Plants ('000/ha) AH	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking
T_1	4955	7045	76.2	75.1	70.4	194.6	52.3	56.7
T_2	5185	7265	75.6	74.2	69.1	198.3	53.3	58.0
T_3	5304	7448	74.4	73.8	68.7	201.1	52.7	57.7
T_4	5225	7279	75.3	74.2	70.2	200.1	52.3	56.3
T_5	6765	8869	76.7	75.6	71.1	209.5	53.3	57.7
T_6	6395	8539	74.7	73.6	69.6	203.9	52.7	57.3
T_7	6823	8915	75.3	74.4	70.2	210.9	52.7	57.3
T_8	6503	8594	76.2	75.1	71.3	204.9	52.3	56.7
T_9	6865	8979	75.1	74.2	70.0	211.6	53.3	57.3
T_{10}	6673	8785	75.8	74.4	68.9	206.1	52.3	57.0
T_{11}	6900	8995	76.0	75.1	70.7	212.4	52.7	57.0
T_{12}	7224	9182	75.8	74.7	70.2	217.9	53.3	58.0
Mean	6234.7	8324.4	75.6	74.5	70.0	205.9	52.8	57.3
CD	375.8	503.4	2.7	2.9	2.6	6.7	1.3	2.0
CV (%)	3.6	3.6	2.1	2.3	2.2	1.9	1.5	2.1
Significance	S	S	NS	NS	NS	S	NS	NS

Treatments	100-seed weight (g)	Net returns (Rs. /ha)	BC ratio	Shelling (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
T_1	20.2	33238	2.22	67.2	11.0	3.2	12.0	27.2
T_2	22.9	35442	2.27	68.3	12.2	3.4	13.4	30.9
T_3	24.3	36922	2.33	69.3	12.6	3.5	13.0	32.0
T_4	23.7	35888	2.29	68.8	12.8	3.7	12.5	32.9
T_5	26.9	51319	2.68	73.3	14.3	4.1	13.9	35.0
T_6	24.1	48138	2.63	70.4	13.4	3.8	13.5	33.2
T_7	28.0	51477	2.66	73.5	14.9	4.3	14.0	36.9
T_8	24.9	49343	2.68	71.2	13.6	3.9	13.5	34.3
T_9	28.5	52009	2.67	74.9	14.9	4.4	14.1	37.0
T_{10}	25.1	51372	2.74	72.1	13.8	3.9	13.6	34.2
T_{11}	29.0	52385	2.68	75.4	15.4	4.4	14.3	37.5
T_{12}	31.9	54918	2.70	76.7	17.6	4.7	14.3	40.4
Mean	25.8	46037.6	2.55	71.7	13.9	3.9	13.5	34.3
CD	2.9	4485.9	0.15	1.2	2.5	0.3	1.5	3.1
CV (%)	6.7	5.8	3.6	1.0	10.5	4.5	6.6	5.3
Significance	S	S	S	S	S	S	NS	S

Table 88: Evaluation of new bio-fertilizers in maize during Kharif 2016 in Karimnagar.

Treatment	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plant height (cm)	Ear height (cm)	Days to 50% tasseling	Days to 50% silking
T_1	8298	11038	7111	206.0	94.3	57.0	60.0
T_2	8461	11349	6805	196.7	95.3	56.0	58.3
T_3	7635	10126	6639	188.3	83.7	55.3	57.3
T_4	8354	10713	6305	198.3	91.0	56.0	58.0
T_5	7789	10149	6500	191.3	88.7	57.7	60.3
T_6	7484	10009	6861	187.3	88.7	57.0	59.3
T_7	7935	10317	6166	189.0	84.3	57.7	60.0
T_8	8229	10870	6472	191.7	89.7	57.0	59.0
T_9	8724	11576	6972	191.0	91.3	59.0	61.3
T_{10}	8932	11518	6555	199.7	89.0	57.0	59.3
T_{11}	8679	11462	6555	199.0	90.3	57.7	59.7
T_{12}	8701	11481	6416	179.3	79.0	57.0	59.3
Mean	8268.5	10884.1	6613.2	193.1	88.8	57.0	59.3
CD	1336.4	1757.2	1145.5	15.6	8.9	1.9	1.9
CV (%)	9.5	9.5	10.2	4.8	5.9	1.9	1.9
Significance	NS	NS	NS	NS	NS	NS	S

Treatment	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row	Shelling (%)	100-seed weight (g)
T_1	19.5	17.2	14.4	35.5	75.2	35.0
T_2	19.3	16.5	14.3	37.0	74.5	35.7
T_3	19.9	16.6	14.1	35.8	75.4	36.3
T_4	18.8	16.4	14.7	35.1	78.0	33.7
T_5	20.1	16.9	14.8	38.4	76.7	35.0
T_6	19.8	16.9	14.8	38.2	74.6	34.7
T_7	18.7	16.5	15.3	35.3	76.9	34.0
T_8	18.7	16.5	15.1	35.1	75.6	34.0
T_9	19.1	16.6	14.7	35.7	75.4	33.3
T_{10}	19.2	16.8	14.1	35.2	77.5	35.3
T_{11}	18.8	17.3	15.1	35.7	75.7	34.7
T_{12}	19.7	16.7	14.9	36.3	75.8	36.3
Mean	19.3	16.7	14.7	36.1	76.0	34.8
CD	1.5	0.8	1.1	3.5	3.4	3.2
CV (%)	4.7	2.8	4.6	5.7	2.6	5.5
Significance	NS	NS	NS	NS	NS	NS

Table 89: Evaluation of new bio-fertilizers in maize in Kolhapur.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants (000'ha) 25 DAS	Plants (000'ha) AH	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	1000-seed weight (gm)
T_1	5417	8478	80.4	66.9	49.8	177.3	64.7	66.7	315.2
T_2	4637	7373	80.9	64.7	46.2	177.0	65.7	67.3	300.3
T_3	4694	6471	80.4	66.4	42.9	181.7	66.0	67.3	305.2
T_4	5835	7451	81.6	71.8	48.9	177.0	65.7	67.7	321.7
T_5	4463	6735	81.3	64.4	42.0	165.7	66.0	68.3	315.2
T_6	4882	6844	80.9	69.3	40.0	163.7	66.3	68.0	310.1
T_7	5128	7280	81.6	71.3	43.6	176.0	66.3	68.0	321.7
T_8	4276	7124	82.0	68.9	41.6	180.3	65.7	67.7	310.1
T_9	4218	5802	82.7	64.0	41.3	171.3	65.7	67.7	307.5
T_{10}	4882	7124	82.2	66.7	46.0	174.7	65.7	67.0	321.8
T_{11}	4882	6549	82.0	70.0	45.3	167.7	66.0	67.7	314.1
T_{12}	4593	6269	82.0	68.0	44.2	174.7	66.0	67.7	308.8
Mean	4825.6	6958.4	81.5	67.7	44.3	173.9	65.8	67.6	312.6
CD	851.1	1126.1	1.6	7.0	4.4	12.3	1.1	1.1	22.9
CV (%)	10.4	9.6	1.1	6.1	5.9	4.2	1.0	1.0	4.3
Significance	S	S	NS	NS	S	NS	NS	NS	NS

Table 90: Evaluation of new bio-fertilizers in maize in Vagarai.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	Days to maturity	100-seed weight (g)	Insect pest incidence (%)	Net returns (Rs./ha)	BC ratio
T_1	5876	7844	48.4	46.2	156.5	60.0	59.7	85.0	34.7	19.5	26458	1.42
T_2	6585	8089	52.7	50.0	157.9	60.0	59.7	85.7	36.7	4.3	30377	1.44
T_3	6659	7667	51.8	48.0	160.0	60.3	60.3	86.7	36.0	8.3	31512	1.45
T_4	6655	8511	46.0	46.7	161.9	60.0	59.0	86.0	35.3	14.2	31443	1.45
T_5	7047	8533	51.6	48.2	160.0	59.3	59.0	86.0	38.7	11.7	36995	1.53
T_6	7641	8378	51.3	48.7	165.5	59.3	58.3	84.7	34.0	11.0	46203	1.66
T_7	6014	8044	50.0	43.3	150.4	60.0	59.3	86.7	36.7	19.4	21247	1.30
T_8	6571	8422	48.9	49.8	158.9	59.7	60.3	87.7	35.3	8.6	29935	1.43
T_9	7873	7867	54.0	52.9	161.3	57.7	58.3	87.7	35.3	10.0	49504	1.71
T_{10}	6799	8111	52.2	50.9	161.9	59.3	59.3	87.0	33.3	13.2	33410	1.48
T_{11}	6608	7200	49.3	44.7	155.6	60.0	59.3	86.3	37.3	15.4	30267	1.43
T_{12}	6398	8733	55.3	47.1	154.7	59.7	59.7	85.0	37.3	9.4	26895	1.38
Mean	6727.1	8116.7	51.0	48.0	158.7	59.6	59.4	86.2	35.9	12.1	32853.6	1.47
CD	1906.1	1942.4	7.8	8.5	18.4	1.5	1.4	3.2	5.1	13.9	28973.2	0.41
CV (%)	16.7	14.1	9.1	10.5	6.9	1.5	1.4	2.2	8.3	68.0	52.1	16.6
Significance	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 91: Evaluation of new bio-fertilizer in maize in Chhindwara.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	100-seed weight (g)
T_1	6100	7819	69.4	58.3	147.0	59.3	62.3	31.7
T_2	6871	8050	72.2	67.1	154.0	62.0	64.3	32.4
T_3	6931	8888	75.9	68.5	155.0	62.7	64.3	33.6
T_4	6992	8698	73.6	67.5	154.7	62.3	64.3	33.9
T_5	7693	10780	76.8	73.1	160.7	62.7	64.7	34.7
T_6	7070	11058	75.9	73.6	156.3	62.0	64.0	34.2
T_7	7971	8929	78.2	68.9	160.7	62.3	64.7	35.0
T_8	7412	10271	74.5	68.9	157.3	62.7	64.7	34.6
T_9	7860	10364	74.0	72.6	164.7	63.3	64.7	35.3
T_{10}	7002	10410	74.5	73.1	156.0	62.0	64.0	34.1
T_{11}	7936	11382	81.4	74.5	166.3	62.0	64.7	36.1
T_{12}	8640	11428	81.0	76.3	167.0	62.3	64.7	34.3
Mean	7373.2	9839.8	75.6	70.2	158.3	62.1	64.3	34.2
CD	1196.7	1336.6	4.6	5.8	14.3	1.1	1.2	1.3
CV (%)	9.6	8.0	3.6	4.9	5.3	1.0	1.1	2.3
Significance	S	S	S	S	NS	S	S	S

Treatment	Net returns (Rs. /ha)	BC ratio	Barrenness in maize (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
T_1	74347	3.3	4.6	13.0	13.1	12.7	30.3
T_2	85182	3.8	3.2	13.9	14.1	12.7	31.3
T_3	86904	3.8	2.5	14.0	14.3	12.7	31.7
T_4	88002	3.9	2.4	14.1	14.6	12.7	32.3
T_5	87171	3.5	1.8	15.2	14.7	13.3	34.7
T_6	88857	3.7	2.4	14.8	14.7	13.3	34.0
T_7	92787	3.7	3.0	15.0	15.1	13.3	36.0
T_8	97544	4.1	3.0	14.7	14.6	13.3	34.7
T_9	100449	4.0	1.8	17.4	15.7	14.0	37.3
T_{10}	99098	4.2	3.1	14.5	14.7	13.3	32.7
T_{11}	100000	4.0	1.7	17.4	15.6	14.0	37.0
T_{12}	109153	4.2	2.3	18.5	15.6	14.0	37.3
Mean	92457.8	3.8	2.7	15.2	14.7	13.3	34.1
CD	16841.4	0.7	2.1	3.5	1.8	1.6	10.7
CV (%)	10.8	10.6	45.8	13.7	7.3	7.3	18.5
Significance	S	NS	NS	NS	NS	NS	NS

Table 92: Evaluation of new bio-fertilizers in maize in Jhabua.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha) 25 DAS	Plants ('000/ha) AH	Plant height (cm)	Days 50% tasseling	Days to maturity	100-seed weight (g)
T_1	4521	4414	66.5	66.4	124.7	58.7	117.0	23.2
T_2	4623	4634	66.7	66.5	126.9	59.0	117.0	23.2
T_3	4672	4683	66.7	66.5	128.2	59.0	117.7	23.2
T_4	4725	4745	66.7	66.6	128.4	59.7	117.3	23.7
T_5	5315	5414	66.9	66.5	141.7	61.0	116.3	25.7
T_6	4826	4753	66.5	66.4	136.6	61.0	116.0	24.2
T_7	5481	5527	66.6	66.5	143.4	61.3	119.3	26.0
T_8	4848	4729	66.9	66.5	137.1	60.3	117.7	24.3
T_9	5532	5737	66.9	66.5	144.0	61.0	119.7	26.0
T_{10}	4905	4826	66.6	66.5	137.7	59.0	118.7	25.0
T_{11}	5680	5723	66.6	66.5	147.2	61.3	120.0	26.2
T_{12}	5341	5427	66.8	66.6	144.8	60.0	119.7	25.7
Mean	5039.1	5051.0	66.7	66.5	136.7	60.1	118.0	24.7
CD	500.2	631.8	2.0	2.1	9.5	2.8	3.3	1.4
CV (%)	5.9	7.4	1.8	1.9	4.1	2.8	1.6	3.4
Significance	S	S	NS	NS	S	NS	NS	S

Treatment	Cob length (cm)	Grains rows/cob	Grains/row	Cob weight/cob (kg)	Shelling (%)	Net return (Rs./ha)	BC ratio
T_1	17.0	12.8	34.6	0.120	72.8	65577	3.6
T_2	17.4	13.3	35.3	0.130	73.6	67723	3.7
T_3	17.4	13.3	36.4	0.131	73.7	68644	3.7
T_4	17.4	13.9	37.2	0.141	73.3	69526	3.7
T_5	18.1	13.5	36.4	0.148	76.4	79324	3.9
T_6	18.1	13.7	38.6	0.131	74.1	70039	3.6
T_7	18.5	13.6	37.3	0.155	77.1	81754	4.0
T_8	18.1	13.6	38.4	0.145	73.0	70215	3.6
T_9	18.6	13.7	36.9	0.162	76.5	83493	4.0
T_{10}	17.0	13.7	40.6	0.146	73.2	71330	3.6
T_{11}	18.6	13.8	41.4	0.178	77.5	85292	4.1
T_{12}	17.9	13.1	39.8	0.165	74.0	78693	3.7
Mean	17.8	13.5	37.7	0.146	74.6	74300.9	3.8
CD	1.6	1.0	2.7	0.0	11.0	7557.4	0.4
CV (%)	5.2	4.6	4.3	7.5	8.7	6.0	6.1
Significance	NS	NS	S	S	NS	S	NS

Table 93: Evaluation of new bio-fertilizers in maize in Udaipur.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants (000'ha) 25 DAS	Plants (000'ha) AH	Days to 50% silking	Cob length (cm)	Cob girth (cm)	Shelling (%)	Net returns Rs/ha
T_1	3557	5335	65.7	63.0	46.3	17.7	15.5	80.2	30015
T_2	3023	4500	64.9	62.6	47.0	16.1	15.0	76.2	22780
T_3	3027	4465	65.5	62.9	46.3	15.7	14.9	76.1	22785
T_4	3223	4857	65.3	63.3	46.7	16.3	15.1	78.1	25537
T_5	3023	4535	64.2	61.8	47.0	16.6	15.3	78.1	22815
T_6	3223	4838	64.9	62.6	46.0	16.0	15.0	78.1	25518
T_7	3527	5320	64.8	62.5	46.7	17.1	15.1	78.1	29640
T_8	3220	4892	64.5	61.9	47.3	16.0	14.7	77.9	25532
T_9	3523	5343	65.3	62.8	46.0	18.2	15.1	78.1	29623
T_{10}	3727	5650	65.3	62.6	46.0	18.0	15.2	78.1	32370
T_{11}	3840	5797	65.3	63.0	47.3	18.1	15.1	78.2	33877
T_{12}	3837	5837	64.8	62.2	48.7	18.2	15.3	80.1	33877
Mean	3395.8	5114.0	65.1	62.6	46.8	17.0	15.1	78.1	27864.0
CD	499.3	723.0	1.7	1.8	2.4	1.0	1.2	5.6	6710.2
CV (%)	8.7	8.3	1.5	1.7	3.1	3.5	4.7	4.2	14.2
Significance	S	S	NS	NS	NS	S	NS	NS	S

Table 94: Optimization of potassium fertilization for eastern India in Ambikapur.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days 50% silking	100-seed weight (g)	Barrenness in maize (%)	Cob length (cm)	Cob girth (cm)
T_1	3332	5584	60.3	58.3	176.2	56.5	31.2	3.4	15.1	12.6
T_2	4210	6784	62.7	61.0	221.2	55.5	32.1	2.6	16.8	13.5
T_3	4800	7534	63.3	61.9	226.9	54.5	32.6	2.3	17.5	13.9
T_4	5165	8018	63.8	62.5	230.3	53.8	32.8	2.1	17.8	14.1
T_5	5282	8170	63.7	62.5	232.4	53.3	33.0	1.8	18.0	14.2
T_6	5313	8192	63.5	62.3	232.7	52.8	33.0	1.9	18.1	14.2
Mean	4683.4	7380.1	62.9	61.4	219.9	54.4	32.5	2.4	17.2	13.8
CD	572.7	931.3	3.8	4.8	13.0	2.0	2.2	2.4	1.5	1.1
CV (%)	8.1	8.4	4.0	5.1	3.9	2.4	4.4	66.3	5.6	5.1
Significance	S	S	NS	NS	S	S	NS	NS	S	S

Treatment	Grain rows/cob	Grains/row	Net returns (Rs. /ha)	BC ratio	Total uptake (kg/ha)		
					N	P	K
T_1	13.0	21.4	20988	0.9	80.8	13.7	78.6
T_2	13.7	24.6	31781	1.2	101.2	17.5	98.9
T_3	14.1	26.4	38977	1.5	115.0	20.0	112.0
T_4	14.3	27.3	42524	1.5	123.6	21.2	120.6
T_5	14.4	27.6	42952	1.5	126.6	21.9	123.5
T_6	14.5	27.7	41992	1.4	127.4	22.0	124.3
Mean	14.0	25.8	36535.5	1.3	112.5	19.4	109.6
CD	1.1	2.2	7687.7	0.3	11.7	2.0	11.9
CV (%)	5.3	5.6	14.0	14.0	6.9	6.9	7.2
Significance	NS	S	S	S	S	S	S

Treatment details:

T_1 0 kg K2O/ha
T_2 30 kg K2O/ha
T_3 60 kg K2O/ha
T_4 90 kg K2O/ha
T_5 120 kg K2O/ha
T_6 150 kg K2O/ha

Table 95: Optimization of potassium fertilization for eastern India in Bahraich.

Treatments	Grain yield (kg/ha)	Cobs yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha) at 25 DAS	Cobs (000/ha)	Plant height (cm)	Days to reproductive stage	Days to maturity in days
T_1	3787	4855	4895	82.9	82.8	179.0	51.7	95.7
T_2	4520	5581	5653	82.9	82.8	181.7	49.7	98.3
T_3	5122	6247	6160	82.9	82.8	184.3	48.0	99.0
T_4	5617	6850	6585	82.9	82.9	186.3	47.3	99.7
T_5	6025	7260	6937	82.9	82.9	187.3	46.7	100.0
T_6	6360	7663	7182	82.9	82.9	188.2	45.7	100.3
Mean	5238.5	6409.3	6235.3	82.9	82.8	184.5	48.2	98.8
CD	21.5	26.1	69.1	0.0	0.0	1.1	0.9	1.1
CV (%)	0.2	0.2	0.6	0.0	0.0	0.3	1.0	0.6
Significance	S	S	S	NS	S	S	S	S

Treatments	Barreness (%)	Shelling (%)	Net return (Rs/ha)	BC ratio	Uptake (kg/ha)		
					N	P	K
T_1	0.1	78.0	31913	2.2	85.7	22.5	69.5
T_2	0.1	81.0	42153	2.6	102.0	27.3	83.4
T_3	0.2	82.0	50308	2.8	116.7	31.3	94.6
T_4	0.1	82.0	56878	3.0	125.6	33.1	104.7
T_5	0.1	83.0	62171	3.1	136.6	35.6	112.4
T_6	0.1	83.0	66322	3.2	144.6	37.9	118.4
Mean	0.1	81.5	51624.3	2.8	118.6	31.3	97.2
CD	0.0	0.7	365.6	0.0	1.8	1.0	1.4
CV (%)	15.1	0.5	0.4	0.3	0.8	1.7	0.8
Significance	NS	S	S	S	S	S	S

Table 96: Optimization of potassium fertilizer for eastern India in Dholi.

Treatments	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Ear height (cm)
T_1	3766	4787	7000	88.9	88.4	166.7	66.7
T_2	4433	5629	5933	90.4	91.1	181.7	76.7
T_3	5226	6682	6656	94.0	94.7	173.2	78.3
T_4	6070	7778	8389	91.6	90.2	175.0	80.3
T_5	6360	8067	6656	85.3	86.2	170.0	71.0
T_6	5779	7356	7000	88.9	88.7	175.0	78.7
Mean	5272.4	6716.3	6938.9	89.9	89.9	173.6	75.3
CD	917.1	1200.5	2105.8	7.3	8.0	14.7	13.6
CV (%)	9.6	9.8	16.7	4.4	4.9	4.7	9.9
Significance	S	S	NS	NS	NS	NS	NS

Treatments	Days of 50% tasseling	Days of 50% silking	Days of maturity	Cob Length (cm)	Cob Girth (cm)	Moisture (%)	Net Return (Rs./ha)	BC Ratio
T_1	54.3	57.7	92.0	16.7	14.7	15.9	-6395.5	-0.10
T_2	53.3	56.3	91.0	14.0	12.3	15.7	3607.8	0.06
T_3	52.3	55.3	91.7	13.3	11.7	16.3	15494.7	0.25
T_4	52.7	56.0	91.7	15.7	13.0	16.6	28159.1	0.45
T_5	53.3	56.7	93.7	15.0	11.7	15.7	32511.6	0.52
T_6	54.3	57.3	92.0	14.3	11.3	16.2	23794.9	0.38
Mean	53.4	56.6	92.0	14.8	12.4	16.1	16195.4	0.26
CD	2.3	2.2	2.5	3.4	3.0	2.6	13756.6	0.22
CV (%)	2.4	2.2	1.5	12.5	13.1	8.9	46.7	46.7
Significance	NS	NS	NS	NS	NS	NS	S	S

Table 97: Optimization of potassium fertilization for eastern India in Kalyani.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Days to tasseling	Days to silking	Days to maturity	Cob length (cm)	Cob girth (cm)
T_1	7322	9291	81.6	233.0	50.7	53.7	95.7	16.4	14.2
T_2	7721	9726	81.7	244.5	51.7	54.7	96.0	16.9	14.7
T_3	10383	12415	83.2	259.5	51.3	53.7	95.0	19.0	15.4
T_4	10260	12218	83.0	255.1	51.0	55.3	96.3	18.0	15.2
T_5	8138	10104	82.3	247.0	52.3	55.3	97.7	17.0	14.9
T_6	8908	11197	82.3	248.8	52.0	55.0	98.0	17.0	14.8
Mean	8788.3	10825.3	82.3	248.0	51.5	54.6	96.4	17.4	14.9
CD	109.0	156.3	0.8	2.9	2.2	3.3	2.3	0.0	0.9
CV (%)	0.7	0.8	0.5	0.6	2.3	3.3	1.3	0.1	3.5
Significance	S	S	S	S	NS	NS	NS	S	NS

Treatment	Grain Rows/cob	Grains/row	100 seed weight (g)	Barrenness (%)	Net returns (Rs./ha)	BC ratio	Uptake (kg/ha)		
							N	P	K
T_1	14.6	29.1	26.9	7.0	47830	2.19	63.1	6.3	60.0
T_2	15.2	28.9	26.4	4.6	52618	2.31	70.5	8.3	67.4
T_3	16.1	35.3	32.3	2.1	84563	3.11	175.2	23.5	222.8
T_4	16.1	32.3	31.2	3.3	83086	3.07	142.3	15.7	152.4
T_5	15.1	29.5	27.7	4.2	57618	2.43	95.0	10.5	98.0
T_6	16.0	30.7	29.2	3.7	66862	2.67	116.2	10.8	124.9
Mean	15.5	31.0	28.9	4.1	65429.5	2.63	110.4	12.5	120.9
CD	0.8	2.1	1.0	2.4	1309.8	0.03	5.4	2.0	13.4
CV (%)	3.0	3.8	1.9	32.1	1.1	0.71	2.7	8.9	6.1
Significance	S	S	S	S	S	S	S	S	S

Table 98: Optimization of potassium fertilization for eastern India in Ranchi.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Barrenness in maize (%)	Cob length (cm)	Cob girth (cm)
T_1	2666	4467	3367	60.4	58.3	172.7	51.8	55.8	3.6	14.8	12.5
T_2	3368	5427	4179	62.9	61.0	216.9	50.8	54.5	3.0	16.4	13.3
T_3	3840	6027	4730	63.5	61.9	222.4	50.0	53.5	2.6	17.2	13.7
T_4	4132	6414	5056	64.2	62.5	225.8	49.5	52.8	2.6	17.5	13.9
T_5	4225	6536	5156	64.0	62.5	227.8	49.3	52.3	2.3	17.7	14.1
T_6	4250	6554	5176	63.8	62.3	228.2	49.0	51.8	2.3	17.7	14.1
Mean	3746.7	5904.1	4610.7	63.1	61.4	215.6	50.0	53.4	2.7	16.9	13.6
CD	458.1	745.0	579.9	3.8	4.8	12.7	1.5	2.0	2.2	1.4	1.1
CV (%)	8.1	8.4	8.3	4.0	5.1	3.9	2.0	2.5	54.3	5.6	5.1
Significance	S	S	S	NS	NS	S	S	S	NS	S	S

Treatment	Grains row/cob	Grains/row	Grains/cob	1000 seed weight (g)	Net return (Rs/ha)	BC ratio	Uptake (kg/ha)		
							N	P	K
T_1	12.8	20.6	257.0	306.1	12106	0.47	64.7	11.0	62.9
T_2	13.4	23.7	307.8	314.9	21014	0.79	81.0	14.0	79.2
T_3	13.8	25.4	339.7	319.6	26702	0.98	92.0	16.0	89.6
T_4	14.1	26.3	359.1	322.0	29853	1.06	98.9	16.9	96.5
T_5	14.2	26.6	365.4	323.1	30236	1.04	101.3	17.5	98.8
T_6	14.2	26.7	368.7	323.5	29653	0.98	101.9	17.6	99.4
Mean	13.7	24.9	332.9	318.2	24927.4	0.89	90.0	15.5	87.7
CD	1.1	2.1	38.8	21.2	6332.4	0.23	9.3	1.6	9.5
CV (%)	5.3	5.6	7.7	4.4	16.9	16.9	6.9	6.9	7.2
Significance	NS	S	S	NS	S	S	S	S	S

Table 99: Yield enhancement of maize through planting systems and intercropping of pulses under rain fed conditions in Srinagar.

Row ratio	Intercrop	Grain yield (kg/ha)	Intercrop yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	100-seed weight (g)
Uniform row at 67 cm	Rajmash	5799	211.1	12399	82.6	77.7	243.3	83.0	87.3	24.7
	Cowpea	6066	157.1	12099	82.7	78.6	241.0	82.0	86.7	24.6
	Soyabean	5377	164.2	12754	82.7	78.1	228.3	79.7	85.0	22.7
Paired row (84:50 cm)	Rajmash	6333	211.8	13132	82.9	76.6	243.3	83.3	87.7	25.2
	Cowpea	5799	156.2	13054	82.7	76.8	247.7	83.7	88.7	24.6
	Soyabean	5999	159.7	12277	82.9	77.1	221.7	81.3	86.3	22.7
Location mean		5895.7	176.7	12619.1	82.8	77.5	237.6	82.2	86.9	24.1
C.D.(5%) AiBj-AiBk		488.4	26.3	742.7	1.0	2.6	13.7	2.6	2.3	1.7
C.D.(5%) AiBk-AjBk		573.2	27.8	764.1	1.5	3.5	13.7	2.4	2.1	2.4
F(5%)		S	NS	S	NS	NS	NS	NS	NS	NS
Uniform row at 67 cm		5748	177.5	12417	82.7	78.1	237.6	81.6	86.3	24.0
Paired row (84:50 cm)		6044	175.9	12821	82.8	76.8	237.6	82.8	87.6	24.2
C.D. (5%) Ai-Aj		448.8	19.4	513.0	1.3	3.1	8.8	1.3	1.0	2.1
C.V. (%) Error A		3.8	5.4	2.0	0.8	2.0	1.8	0.8	0.5	4.3
F (5%)		NS	NS	NS	NS	NS	NS	NS	S	NS
Rajmash		6066	211.5	12765	82.8	77.1	243.3	83.2	87.5	24.9
Cowpea		5933	156.7	12577	82.7	77.7	244.3	82.8	87.7	24.6
Soyabean		5688	162.0	12515	82.8	77.6	225.0	80.5	85.7	22.7
C.D. (5%) Bi-Bj		345.3	18.6	525.1	0.7	1.8	9.7	1.8	1.6	1.2
C.V. (%) Error B		4.4	7.9	3.1	0.6	1.8	3.1	1.7	1.4	3.8
F (5%)		NS	S	NS	NS	NS	S	S	S	S

Cont…

Row ratio	Intercrop	Maize Equivalent yield (kg/ha)	Net Returns (Rs./ha)	BC ratio	Barrenness in maize (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
Uniform row at 67 cm	Rajmash	7103	108072	2.3	11.3	21.0	13.1	12.7	42.8
	Cowpea	6276	87123	1.8	11.0	20.4	12.9	12.0	41.0
	Soyabean	6534	92268	1.9	10.2	20.2	11.9	12.2	41.8
Paired row (84:50 cm)	Rajmash	6896	106365	2.2	11.4	21.6	11.9	14.4	45.5
	Cowpea	6054	81498	1.6	11.0	21.7	12.0	14.0	41.9
	Soyabean	6211	87693	1.8	11.0	21.5	12.4	12.4	42.4
Location mean		6512.2	93836.7	1.9	11.0	21.1	12.4	12.9	42.6
C.D.(5%) AiBj-AiBk		207.0	9903.0	0.2	2.5	2.6	2.6	1.6	3.5
C.D.(5%) AIBK-AJBK		733.5	12757.8	0.4	4.2	2.9	3.2	1.8	3.1
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS
Uniform row at 67 cm		6637	95821	2.0	10.9	20.6	12.6	12.3	41.9
Paired row (84:50 cm)		6387	91852	1.9	11.1	21.6	12.1	13.6	43.3
C.D. (5%) Ai-Aj		726.2	10663.7	0.4	3.9	2.1	2.7	1.4	1.4
C.V. (%) Error A		5.5	5.6	8.9	17.4	4.9	10.7	5.2	1.6
F (5%)		NS	NS	NS	NS	NS	NS	NS	S
Rajmash		6999	107218	2.3	11.4	21.3	12.5	13.6	44.2
Cowpea		6165	84311	1.7	11.0	21.1	12.5	13.0	41.5
Soyabean		6373	89981	1.8	10.6	20.9	12.2	12.3	42.1
C.D. (5%) Bi-Bj		146.4	7002.4	0.2	1.7	1.9	1.8	1.1	2.4
C.V. (%) Error B		1.7	5.6	6.5	11.9	6.6	11.1	6.5	4.3
F (5%)		S	S	S	NS	NS	NS	NS	NS

Table 100: Performance of pre release genotypes for drought screening under rainfed condition in Chhindwara.

Genotypes (Set 1)	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Ear Height (cm)	Days 50% tasseling	Days 50% silking	Brown Husk days	100-seed weight (g)
IIMR 1	6977	8442	50.0	47.8	140.0	64.5	65.0	65.0	102.5	29.8
IIMR 2	7244	8765	52.2	52.2	132.0	56.0	59.0	59.5	103.5	33.9
IIMR 3	8532	10324	57.8	53.3	157.0	54.5	61.5	61.5	101.0	40.0
IIMR 4	8133	9840	56.7	55.6	144.5	58.0	64.0	64.0	103.5	35.1
IIMR 5	6310	7636	56.7	53.3	132.5	46.5	63.5	64.0	102.0	31.9
IIMR 6	8977	10862	56.7	56.7	150.0	54.5	59.5	60.5	102.5	35.3
IIMR 7	5333	6453	58.9	52.2	136.5	54.5	64.0	64.5	103.0	32.3
IIMR 8	9155	11077	57.8	57.8	165.5	78.5	63.5	64.0	102.5	35.9
IIMR 9	5333	6453	56.7	54.4	114.5	49.5	65.5	65.5	102.0	35.6
IIMR 10	5199	6291	56.7	56.7	148.5	61.5	63.5	65.0	101.5	29.1
IIMR 11	2755	3334	51.1	45.6	119.5	53.0	65.0	66.0	104.5	31.0
IIMR 12	5777	6990	61.1	58.9	139.5	69.5	61.5	63.5	101.5	34.3
IIMR 13	6666	8066	51.1	52.2	140.0	61.5	64.0	65.0	105.5	31.8
IIMR 14	6977	8442	52.2	51.1	134.5	54.5	64.5	64.5	104.5	32.2
IIMR 15	5733	6937	52.2	52.2	147.0	57.0	61.5	62.5	104.5	34.1
IIMR 16	9288	11238	61.1	61.1	172.0	59.5	63.5	64.5	100.5	36.0
IIMR 17	8844	10701	61.1	61.1	159.5	69.0	59.5	60.5	100.0	38.0
IIMR 18	7288	8819	52.2	48.9	159.5	64.5	65.5	66.0	104.0	34.3
IIMR 19	7199	8711	52.2	50.0	139.5	59.5	62.0	63.0	99.0	30.1
IIMR 20	3444	7844	57.8	54.4	167.5	68.5	61.5	63.0	102.0	36.0
IIMR 21	5866	7098	55.6	54.4	128.0	61.0	60.5	61.5	104.0	32.5
IIMR 22	6044	7313	65.5	65.5	157.0	72.5	59.0	59.5	100.5	34.4
IIMR 23	6666	8066	63.3	63.3	125.5	40.0	59.0	60.0	99.5	30.4
IIMR 24	7199	8711	47.8	46.7	145.5	47.5	60.0	61.0	103.0	36.9
IIMR 25	8532	10324	60.0	60.0	150.0	57.5	65.5	66.0	101.5	33.4
IIMR 26	8266	10002	47.8	46.7	157.0	59.5	60.0	61.0	104.5	35.1
IIMR 27	5155	6238	54.4	53.3	127.5	44.0	62.5	64.0	101.0	27.7
IIMR 28	4844	5861	50.0	48.9	142.0	60.0	60.0	60.0	100.0	28.4
IIMR 29	5111	6184	60.0	54.4	140.0	49.5	60.0	60.5	99.5	33.1
IIMR 30	7599	9195	50.0	48.9	140.0	59.5	62.5	63.5	100.5	33.7
IIMR 31	8088	9787	55.6	54.4	179.5	77.0	61.5	62.5	100.0	38.8
IIMR 32	7377	8926	55.6	53.3	156.0	67.0	63.0	63.5	103.0	35.1
IIMR 33	5555	6722	55.6	51.1	139.5	47.0	59.5	60.0	99.0	31.0
IIMR 34	6177	7474	52.2	52.2	156.0	66.5	62.0	62.0	103.0	34.1
IIMR 35	4933	5969	51.1	48.9	141.5	48.5	61.5	60.5	102.5	34.1
IIMR 36	7199	8711	48.9	47.8	147.0	61.5	60.5	60.5	101.5	30.0
IIMR 37	6310	7636	53.3	53.3	132.0	60.5	58.5	59.5	101.0	38.3
IIMR 38	6133	7421	52.2	51.1	143.5	59.5	60.0	61.0	100.5	38.1
IIMR 39	5199	6291	58.9	56.7	152.5	57.5	61.5	62.0	101.5	34.0
Mean	6600	8081	55.1	53.5	145.1	58.7	61.9	62.6	101.9	33.7
CD	3121	3534	10.0	7.8	37.9	17.1	2.1	1.9	2.1	2.4
CV (%)	23	22	9.0	7.2	12.9	14.4	1.7	1.5	1.0	3.5
SIGNIFICANCE	S	S	NS	S	NS	S	S	S	S	S

Table 101: Performance of pre release genotypes for drought screening under rainfed condition in Chhindwara.

Genotypes (Set 2)	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Ear Height (cm)	Days 50% tasseling	Days 50% silking	Brown Husk days	100-seed weight (g)
IIMR 1	5777	6686	52.2	51.1	136.0	53.0	57.5	58.5	97.0	39.2
IIMR 2	5066	6376	58.9	54.4	110.5	39.0	56.0	58.0	94.0	30.9
IIMR 3	3822	4557	56.7	54.4	138.0	48.0	55.0	58.5	95.0	35.8
IIMR 4	4355	5365	63.3	51.1	147.5	42.0	58.0	59.5	104.0	27.8
IIMR 5	4888	5923	60.0	56.7	123.0	51.0	60.0	61.0	98.5	31.8
IIMR 6	5999	6990	53.3	50.0	135.0	54.5	56.5	58.5	94.0	30.0
IIMR 7	2089	2881	58.9	52.2	120.5	36.5	57.5	58.0	89.0	29.5
IIMR 8	4533	5618	57.8	50.0	119.5	48.5	54.0	55.5	90.0	34.1
IIMR 9	2666	3540	55.6	47.8	118.0	40.0	53.5	55.5	88.0	28.2
IIMR 10	4888	5823	58.9	55.6	130.0	48.0	55.5	57.5	92.5	27.7
IIMR 11	4888	5723	58.9	54.4	117.0	45.5	56.5	58.0	95.5	34.2
IIMR 12	5164	6137	55.6	51.1	140.5	55.0	57.5	58.5	95.5	27.2
IIMR 13	4488	5667	53.3	54.4	119.5	55.5	53.5	54.0	89.0	26.8
Mean	4510	5483	57.2	52.6	127.3	47.4	56.2	57.8	94.0	31.0
CD	933.2	1356.7	10.4	10.3	24.3	14.5	2.5	1.5	1.5	3.8
CV (%)	9.5	11.4	8.4	9.0	8.8	14.1	2.1	1.2	0.8	5.6
SIGNIFICANCE	S	S	NS	NS	NS	NS	S	S	S	S

Table 102: Performance of pre release genotypes for drought screening under normal condition in Chhindwara.

Genotypes (Set 1)	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Ear Height (cm)	Days 50% tasseling	Days 50% silking	Brown Husk days	100-seed weight (g)
IIMR 1	9821	11195	65.5	60.0	134.0	50.0	63.5	65.0	104.0	26.0
IIMR 2	6710	8551	56.7	53.3	117.0	40.0	61.0	62.5	100.5	31.7
IIMR 3	7155	9224	56.7	54.4	152.5	60.0	60.0	61.0	101.5	41.4
IIMR 4	10088	12529	54.4	60.0	150.5	56.5	62.0	63.0	103.0	36.7
IIMR 5	7555	9657	56.7	53.3	151.5	56.0	62.0	62.5	104.5	33.0
IIMR 6	8177	9938	54.4	52.2	133.5	43.5	61.0	62.0	102.0	33.8
IIMR 7	5955	7848	55.6	52.2	129.0	38.5	63.5	64.0	103.5	28.5
IIMR 8	10932	13666	61.1	58.9	142.5	50.0	63.5	65.0	105.5	36.4
IIMR 9	6088	7600	58.9	58.9	129.0	55.0	64.0	65.0	102.5	37.5
IIMR 10	7377	9716	57.8	54.4	147.5	62.5	61.0	62.5	100.0	32.3
IIMR 11	7555	9680	55.6	54.4	145.0	59.0	63.0	64.5	107.5	32.3
IIMR 12	7866	10203	57.8	55.6	154.0	66.5	63.5	65.0	107.0	36.9
IIMR 13	7688	10023	60.0	56.7	155.5	66.0	61.5	63.0	105.0	33.3
IIMR 14	7333	9708	53.3	48.9	152.5	53.5	61.5	62.5	104.0	28.5
IIMR 15	8932	11562	30.0	57.8	159.5	61.0	63.5	64.0	101.0	34.3
IIMR 16	9421	12273	54.4	52.2	159.0	78.5	63.5	64.0	103.0	41.3
IIMR 17	8932	11007	57.8	52.2	174.0	74.0	61.0	61.5	100.5	42.3
IIMR 18	8444	10460	56.7	53.3	174.5	71.5	63.0	63.5	101.5	36.8
IIMR 19	6933	8804	61.1	60.0	140.0	65.0	60.5	61.5	101.0	33.8
IIMR 20	7244	8893	63.3	58.9	161.0	69.0	62.5	63.5	102.0	35.4
IIMR 21	8044	10308	56.7	56.7	144.0	53.5	60.5	61.0	102.5	33.6
IIMR 22	7377	9566	60.0	56.7	131.5	43.5	59.5	60.0	101.5	31.9
IIMR 23	7955	10070	60.0	56.7	111.0	39.0	58.5	59.5	102.5	28.6
IIMR 24	7022	9187	56.7	56.7	133.0	46.5	59.5	60.5	101.0	38.6
IIMR 25	7466	9585	58.9	54.4	137.5	56.5	64.5	66.0	102.0	28.5
IIMR 26	7110	9185	60.0	60.0	121.5	37.5	62.5	63.5	104.0	31.1
IIMR 27	6533	8397	57.8	57.8	132.0	51.0	59.5	60.0	99.5	34.2
IIMR 28	5644	7423	52.2	56.7	130.5	46.0	59.0	59.5	99.5	32.2
IIMR 29	7421	9391	61.1	58.9	126.5	51.0	59.0	59.5	101.5	34.1
IIMR 30	7066	9175	57.8	56.7	147.5	57.5	63.5	64.5	105.0	34.9
IIMR 31	9332	11857	63.3	62.2	176.5	82.5	64.0	60.0	100.0	39.8
IIMR 32	7421	9561	63.3	61.1	109.0	46.5	61.5	62.5	105.5	35.3
IIMR 33	7866	10104	61.1	58.9	159.0	37.5	60.5	61.0	100.0	31.8
IIMR 34	7022	8848	58.9	58.9	130.0	42.5	61.5	62.5	103.0	31.3
IIMR 35	7421	9660	56.7	56.7	132.0	45.0	61.5	62.0	103.5	31.6
IIMR 36	6888	8617	57.8	55.6	136.0	46.5	60.5	61.0	102.0	32.0
IIMR 37	6710	8850	57.8	57.8	125.0	40.5	60.0	60.5	102.0	34.7
IIMR 38	7066	8571	55.6	55.6	132.5	56.5	59.0	60.0	100.0	38.7
IIMR 39	6977	8799	58.9	55.6	143.0	59.5	59.0	59.5	99.0	38.6
Mean	7655.1	9735.5	57.5	56.4	141.5	54.2	61.5	62.3	102.4	34.2
CD	1841.7	2367.0	9.3	9.6	31.4	15.2	2.8	2.2	2.3	1.6
CV (%)	11.9	12.0	8.0	8.4	10.9	13.8	2.3	1.7	1.1	2.3
SIGNIFICANCE	S	S	S	NS	S	S	S	S	S	S

Table 103: Performance of pre release genotypes for drought screening under normal condition in Chhindwara.

Genotypes (Set 2)	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Ear Height (cm)	Days 50% tasseling	Days 50% silking	Brown Husk days	100-seed weight (g)
IIMR 1	5466	6697	60.0	57.8	134.0	63.5	58.5	58.5	94.5	35.7
IIMR 2	5911	7716	61.1	55.6	107.0	35.5	56.5	58.5	98.5	32.1
IIMR 3	4533	6352	60.0	57.8	139.5	59.5	59.5	59.5	94.0	32.6
IIMR 4	4711	5880	64.4	61.1	135.5	41.5	59.0	59.0	103.5	30.1
IIMR 5	7333	9786	63.3	61.1	124.5	51.0	60.0	61.5	98.0	34.6
IIMR 6	6044	8036	61.1	58.9	144.0	54.0	56.0	58.0	93.0	33.0
IIMR 7	4711	6130	58.9	60.0	122.5	58.0	53.5	53.5	96.0	32.8
IIMR 8	5422	7140	62.2	57.8	131.5	51.5	55.5	55.5	90.0	29.6
IIMR 9	4266	5661	58.9	54.4	110.5	43.0	55.5	55.5	91.0	32.3
IIMR 10	5333	6826	61.1	56.7	92.0	32.0	54.5	56.5	96.0	30.1
IIMR 11	6044	7687	62.2	56.7	115.5	43.0	57.0	57.0	100.0	37.5
IIMR 12	6666	8733	58.9	53.3	124.5	44.5	57.0	58.0	96.0	37.4
IIMR 13	4844	5951	60.0	56.7	129.5	56.0	53.5	54.0	92.5	29.7
Mean	5483.2	7122.3	60.9	57.5	123.9	48.7	56.6	57.3	95.6	32.9
CD	1121.8	2069.0	9.6	7.1	16.3	21.4	1.8	1.9	2.2	3.2
CV (%)	9.4	13.3	7.2	5.6	6.0	20.1	1.5	1.5	1.1	4.5
SIGNIFICANCE	S	S	NS	NS	S	NS	S	S	S	S

Table 104: IIMR Babycorn trial in Ludhiana.

Genotypes	Babycorn yield with husk (kg/ha)	Babycorn yield without husk (kg/ha)	Fodder yield (kg/ha)	Plants ('000/ha)	Total babycorn ('000/ha)	Babycorn length (cm)	Baby corn girth (cm)	Barren plant ('000/ha)	Net returns (Rs/ha)	BC ratio
IIMR-386	6505	2000	18981	83.3	201.9	8.9	4.3	2.8	36724	1.07
IIMR-384	7218	2426	18241	83.3	200.0	9.8	4.5	3.7	41687	1.22
IIMR-383	6181	1704	17037	82.4	203.7	8.6	4.2	2.8	32187	0.94
IIMR-385	6574	1894	16944	82.4	187.0	9.0	4.3	1.9	35242	1.03
IIMR-380	6440	1986	19259	83.3	187.0	8.4	4.3	2.8	36483	1.06
IIMR-376	4458	1731	13611	81.5	151.9	8.2	4.3	0.9	14983	0.44
IIMR-357	5037	1634	20833	83.3	170.4	8.9	4.1	3.7	26835	0.78
IIMR-375	5458	1366	22963	82.4	165.7	8.6	3.9	3.7	32335	0.94
IIMR-382	7171	2000	20741	83.3	207.4	9.3	4.1	1.9	43816	1.28
IIMR-378	4681	1370	23704	82.4	172.2	7.7	3.9	2.8	26853	0.78
IIMR-388	6255	1569	20000	83.3	208.3	8.2	4.1	2.8	35742	1.04
IIMR-377	5370	1713	16852	82.4	188.9	8.5	4.2	4.6	25520	0.74
IIMR-379	6176	2023	17593	83.3	191.7	9.4	4.4	5.6	32705	0.95
IIMR-381	7093	2171	16204	83.3	188.0	9.5	4.5	6.5	38650	1.13
Mean	6044.0	1827.7	18783.1	82.9	187.4	8.8	4.2	3.3	32840.0	0.96
CD	1141.0	331.6	2017.9	2.1	28.5	1.0	0.3	4.2	8848.4	0.26
CV (%)	11.2	10.8	6.4	1.5	9.1	6.9	4.7	75.7	16.1	16.1
SIGNIFICANCE	S	S	S	NS	S	S	S	NS	S	S

Table 105: Performance of "Pratap Makka Chari -6" under varying plant density and fertility levels in Udaipur.

Fertility levels (kg $N+P_2O_5$/ha)	Density (plants/ha)	Green fodder yield (kg/ha)	Net returns (Rs/ha)	BC ratio
90:30	30x25 cm	33017	40445	2.5
	30x20 cm	34327	42643	2.7
	30x15 cm	35017	43725	2.8
	30x10 cm	35213	43919	2.8
110:40	30x25 cm	35220	43757	2.8
	30x20 cm	36827	46489	2.9
	30x15 cm	38020	48477	3.0
	30x10 cm	38343	48899	3.1
130:50	30x25 cm	36860	46053	2.9
	30x20 cm	37800	47585	3.0
	30x15 cm	39547	50569	3.2
	30x10 cm	39610	50523	3.2
150:60	30x25 cm	36410	44593	2.8
	30x20 cm	38040	47367	3.0
	30x15 cm	39690	50177	3.2
	30x10 cm	39513	49699	3.1
Mean of location		37090.8	46557.5	2.9
C.D. at 5 (%)		4536.1	8164.9	0.5
F (5%)		NS	NS	NS
90:30		34393	42683	2.7
110:40		37103	46906	3.0
130:50		38454	48683	3.1
150:60		38413	47959	3.0
C.D. at 5 (%)		2268.0	4082.5	0.3
F (5%)		S	S	S
30x25 cm (133333)		35377	43712	2.7
30x20 cm (166666)		36748	46021	2.9
30x15 cm (222222)		38068	48237	3.0
30x10 cm (333333)		38170	48260	3.0
C.D. at 5 (%)		2268.0	4082.5	0.3
C.V. (%)		7.3	10.5	10.5
F (5%)		NS	NS	NS

PATHOLOGY

CONTENTS

Abbreviations used:

1.	ALMO	Almora	10.	HYDE	Hyderabad
2.	DHAR	Dharwad	11.	KALY	Kalyani
3.	BAJA	Bajaura	12.	KARN	Karnal
4.	BARA	Barapani	13.	LUDH	Ludhiana
5.	COIM	Coimbatore	14.	MAND	Mandya
6.	DELH	Delhi	15.	MEDI	Midnapur (Vol. Centre)
7.	DHAU	Dhaulakuan	16.	PANT	Pantnagar
8.	DHOL	Dholi	17.	UDAI	Udaipur
9.	GODH	Godhara (Vol. Centre)			

NHZ: - North Hill Zone (Almora, Bajaura, Barapani, Dhaylakuan); **NWPZ: -** North West Plain Zone (Delhi, Karnal, Ludhiana, Pantnagar); **NEPZ: -** North East Plain Zone (Dholi, Kalyani); **PZ: -** Peninsular Zone (Coimbatore, Dharwad, Hyderabad, Mandya); **CWZ: -** Central Western Zone (Godhra, Udaipur)

1.	BLSB	Banded leaf and sheath blight	8.	MLB	Maydis leaf blight
2.	BSDM	Brown stripe downy mildew	9.	P. rust	Polysora rust
3.	BSR	Bacterial stalk rot	10.	PFSR	Post flowering stalk rot
4.	C. rot	Charcoal rot	11.	RDM	Rajasthan downy mildew
5.	C. rust	Common rust	12.	SDM	Sorghum downy mildew
6.	CLS	Curvularia leaf spot	13.	TLB	Turcicum leaf blight
7.	FSR	Fusarium stalk rot			

1.	FS	Foliar spray	6.	R	Resistant
2.	ST	Seed treatment	7.	MR	Moderately resistant
3.	MPT	Maize Pathology Trial	8.	MS	Moderately susceptible
4.	MDR	Multiple disease resistance	9.	S	Susceptible
5.	HR	High Resistant	10.	HS	High susceptible

Executive Summary

All India Coordinated Research Project on Maize (AIRCPM) pathology trials for *kharif* 2016 were finalized during 59th Annual Maize Workshop held at UAS, Bangalore. A total of 34 trials (27 in *Kharif* and 7 in *Rabi* 2015-16) were conducted in sick plot /artificially created epiphytotics at identified hot spot locations and testing centres *viz.,* namely Bajaura, Almora, Dhaulakuan, Barapani (AVTs only) in NHZ; Ludhiana (R & K), Delhi, Karnal, Pantnagar in NWPZ; Dholi (R & K), Medinapur (K) in NEPZ; Dharwad (R & K), Coimbatore (R & K), Mandya (R & K), Hyderabad (R & K) in PZ and Udaipur in CWZ. A total of 468 hybrids in both seasons and 1425 inbred lines (K) were screened against Maydis leaf blight (MLB), Turcicum leaf blight (TLB), Banded leaf and sheath blight (BLSB), Sorghum downy mildew (SDM), Rajasthan downy mildew (RDM), Curvularia leaf spot (CLS), Post-flowering stalk rots (PFSR), Common rust, Bacterial stalk rot (BSR) and Cyst nematode. Yield loss trials were conducted at Dhaulakuan (MLB), Bajaura (TLB), Dharwad (TLB), Mandya (TLB & SDM) and Udaipur (RDM & cyst nematode). Trap nursery trial for disease occurrence was conducted at Almora, Bajaura, Dhaulakuan, Pantnagar, Kalyani, Delhi, Karnal, Ludhiana, Dholi, Udaipur, Dharwad, Mandya, Hyderabad and Coimbatore centres. Disease surveys were conducted at farmer's fields in Himachal Pradesh and Uttarakhand (NHZ), Punjab (NWPZ), Karnataka (PZ), Rajasthan and Gujarat (CWZ) to assess overall disease scenario during the crop season. Study on management of nematode and its interaction with soil and genotypes in maize was taken up by Udaipur centre. Trials for management strategies to develop integrated disease management (IDM) in maize were conducted at Bajaura, Dhaulakuan, Ludhiana, Karnal, Delhi, Pantnagar, Kalyani, Dholi, Godhra, Dharwad, Mandya and Udaipur. The summarized results of AICRPM Pathology trials conducted during resting periods are presented below:

A. ***Kharif 2016***

MPT 1. Screening of maize hybrids in NIVT (late maturity, Trial 61A & 61B)

Multilocation testing of 98 genotypes under this group was done (Table-1 and-2), Promising genotypes with multiple disease resistance (MDR) is below:

S.No	Genotype	Resistant					Moderately Resistant				
		NHZ	NWPZ	NEPZ	PZ	CWZ	NHZ	NWPZ	NEPZ	PZ	CWZ
Trial 61A											
1.	BLH **1**15	MLB, CLS	BSR	-	C.RUST	CLS	TLB	MLB	-	C.ROT	FSR
2.	SYN616734	MLB, TLB, CLS	MLB, BSR	-	TLB	CLS	-	-	-	C.ROT	FSR, RDM
3.	DKC 9178(IQ8623)	MLB, TLB, CLS	MLB	-	C.RUST	CLS	-	BLSB, C.ROT	MLB	TLB, C.ROT, SDM	FSR, RDM
4.	HT 16607	MLB, TLB, CLS	BSR	MLB	C.RUST	FSR, RDM	-	MLB, C.ROT	-	C.ROT	CLS
5.	KH-16-149	MLB, CLS	-	-	C.RUST	FSR	TLB,	MLB	MLB	C.ROT	CLS
6.	OMH 14-55 (CAH1537)	MLB, TLB, CLS	BSR	-	-	FSR, CLS	-	MLB	MLB	C.ROT, C.RUST	-
7.	BH 414012	MLB, CLS	MLB	-	-	CLS	TLB	BSR	-	C.ROT	RDM

S.No	Genotype	Resistant					Moderately Resistant				
		NHZ	NWPZ	NEPZ	PZ	CWZ	NHZ	NWPZ	NEPZ	PZ	CWZ
8.	JKMH 4152	MLB, CLS	MLB, BSR	-	-	RDM	TLB	C.ROT	MLB	C.ROT, C.RUST, SDM	CLS
9.	CCH 9241	MLB, CLS	MLB	-	C.RUST	RDM, CLS	TLB,	BSR	-	TLB, C.ROT	FSR
10.	HM16305	MLB, TLB, CLS	MLB	MLB	C.ROT, C.RUST	FSR, RDM	-	BSR	-	TLB, SDM	CLS
11.	OMH 1462 (CAH 142)	MLB, CLS	-	MLB	TLB, C.RUST	FSR, CLS	TLB	MLB, C.ROT	-	C.ROT	-
12.	CMH11-591	MLB, CLS	MLB, BSR	-	C.ROT	-	TLB	-	MLB	TLB	FSR, RDM, CLS
13.	MM9333	MLB, CLS	-	-	C.RUST	-	TLB	MLB, BSR	MLB	C.ROT	FSR, RDM
14.	GH-1436	MLB, CLS	MLB	MLB	-	FSR	TLB	-	-	C.ROT	CLS
15.	MM 2030	MLB, CLS	-	-	C.ROT	CLS	TLB	MLB, BLSB	-	-	FSR, RDM
16.	KMH-5022	MLB, CLS	MLB	-	C.ROT	-	TLB,	-	MLB	TLB	FSR, RDM, CLS
17.	PM16104L	MLB, CLS	MLB	MLB	C.ROT	RDM	TLB,	BSR	-	C.RUST	FSR, CLS
18.	SYN617328	MLB, TLB, CLS	BSR	-	C.ROT. C.RUST	RDM	-	MLB, C.ROT	-	TLB	FSR
19.	ADV 9233	MLB, TLB, CLS	-	-	C.ROT	RDM	-	MLB	-	C.RUST, SDM	FSR, CLS
20.	BLH 114	MLB, TLB, CLS	BSR	-	C.ROT	RDM, CLS	-	MLB	MLB	SDM	FSR
21.	Star-9	MLB, CLS	-	-	C.ROT	-	TLB,	MLB, C.ROT, BSR	-	-	FSR, RDM, CLS
22.	IMHBG-2016-3	MLB, TLB, CLS	MLB	-	TLB, C.ROT, C.RUST	FSR, RDM, CLS	-	C.ROT, BSR	MLB	-	-
23.	PM16102L	MLB, TLB, CLS	-	MLB	TLB, C.ROT	CLS	-	MLB	-	-	FSR
24.	X-7	MLB, CLS	MLB	-	C.ROT. C.RUST	FSR, RDM, CLS	TLB,	-	-	TLB	-
25.	C.P 888	MLB, CLS	MLB	-	C.ROT. C.RUST	RDM, CLS	TLB,	BLSB	-	-	FSR
26.	X-6	MLB, CLS	BSR	-	C.ROT	CLS	TLB,	MLB	MLB	-	FSR
27.	VaMH 13024	MLB, TLB, CLS	MLB	MLB	TLB, C.ROT	FSR, CLS	-	C.ROT, BSR	-	C.RUST, SDM	-
28.	PM16103L	MLB, CLS	-	MLB	C.ROT	FSR, RDM, CLS	TLB,	MLB, C.ROT ,BSR	-	C.RUST	-
29.	PM16101L	MLB, TLB, CLS	-	-	C.ROT	FSR, CLS	-	-	-	C.RUST	-
30.	GH-1427	TLB, CLS	-	-	C.ROT	RDM, CLS	MLB ,	MLB, BSR	MLB	-	FSR

S.No	Genotype	Resistant					Moderately Resistant				
		NHZ	NWPZ	NEPZ	PZ	CWZ	NHZ	NWPZ	NEPZ	PZ	CWZ
31.	CMH11-586	MLB, TLB, CLS	MLB	-	TLB, C.ROT, C.RUST	CLS	-	C.ROT	-	-	FSR
32.	CCH 167	MLB, CLS	MLB	-	-	CLS	TLB,	-	-	C.ROT	FSR
33.	GK3202	MLB, TLB, CLS	MLB, BSR	MLB	C.ROT	CLS	-	-	-	C.ROT	RDM
34.	KH-POLO Gold	CLS	-	-	-	CLS	MLB, TLB,	MLB, BSR	MLB	C.ROT, C.RUST	FSR, RDM
35.	MM 2626	MLB, TLB, CLS	BSR	-	-	-	-	MLB, C.ROT	MLB	C.ROT	FSR
36.	VNR 33051	MLB, TLB, CLS	MLB	MLB	TLB, C.RUST	RDM, CLS	-	BLSB,	-	C.ROT	FSR
37.	DH-300	MLB, CLS	-	-	C.ROT. C.RUST	-	TLB,	MLB, C.ROT	MLB	SDM	FSR, RDM, CLS
38.	OMH 14-16 (CAH1424)	CLS	MLB	MLB	-	RDM	MLB, TLB	C.ROT	-	C.ROT	FSR
39.	DH-301	CLS	MLB	-	C.ROT	-	MLB, TLB	C.ROT	-	-	FSR
40.	VNR 3Y069	MLB, CLS	MLB	-	C.ROT, C.RUST	-	TLB	-	-	-	FSR, RDM, CLS
41.	OMH 14-27 (CAH1511)	MLB, TLB, CLS	MLB	MLB	TLB, C.RUST	RDM, CLS	-	C.ROT, BSR	-	C.ROT	FSR
42.	KMH-24752	MLB, TLB, CLS	BSR	-	TLB, C.ROT, C.RUST	RDM, CLS	-	MLB	MLB	SDM	FSR
43.	JH 13278	MLB, CLS	MLB	-	-	RDM, CLS	TLB	C.ROT	-	C.ROT	FSR
44.	CMH11-583	MLB, CLS	BSR	-	TLB	RDM, CLS	TLB	MLB, C.ROT	-	C.ROT	FSR
45.	GK3204	MLB, TLB, CLS	MLB, BSR	MLB	TLB, C.RUST	RDM, CLS	-	C.ROT	-	C.ROT	FSR
46.	TMMH 838	MLB, TLB, CLS	-	-	C.RUST, SDM	-	-	MLB	MLB	TLB, C.ROT	FSR
Trial 61B											
47.	RMH 1601	MLB, CLS	-	-	TLB, C.ROT, C.RUST	-	TLB	MLB, BSR	-	SDM	FSR, RDM
48.	MH 25	MLB, CLS	MLB	-	-	CLS	TLB	-	MLB	C.RUST	FSR
49.	MAH-14-5	MLB, TLB, CLS	MLB	MLB	C.RUST	RDM	-	C.ROT, BSR	-	TLB, C.ROT , SDM	FSR, CLS
50.	WH-1095	MLB, TLB, CLS	MLB	MLB	-	-	-	-	-	TLB, C.ROT	FSR, RDM
51.	MH 26	MLB, TLB, CLS	MLB	-	C.ROT	-	-	BLSB	-	-	FSR, RDM
52.	JH 15130	MLB, TLB, CLS	MLB	-	-	CLS	-	BLSB	MLB	TLB, C.ROT	FSR, RDM

S.No	Genotype	Resistant					Moderately Resistant				
		NHZ	NWPZ	NEPZ	PZ	CWZ	NHZ	NWPZ	NEPZ	PZ	CWZ
53.	IMH 1601	MLB, TLB, CLS	MLB	-	TLB	CLS	-	BSR	-	C.ROT	FSR, RDM
54.	DAS-MH-113	MLB, TLB, CLS	MLB, BSR	-	-	CLS `	-	C.ROT	MLB	C.ROT	FSR, RDM
55.	IMH 1608	CLS	-	-	-	-	MLB , TLB	MLB	MLB	C.ROT	FSR, CLS
56.	DAS-MH-112	MLB, CLS	MLB, BSR	-	C.RUST	CLS	TLB	C.ROT	-	C.ROT	FSR
57.	SVMH-55	MLB, TLB, CLS	MLB	-	-	-	TLB	-	MLB	TLB, C.ROT, C.RUST	FSR, RDM
58.	QMH-1472	MLB, CLS	-	-	-	-	TLB	MLB	-	C.ROT	FSR, RDM
59.	AH-7188	MLB, CLS	-	-	C.RUST	-	TLB	MLB, BLSB	-	TLB, C.ROT	RDM
60.	JH 13094	MLB, CLS	MLB	MLB	-	-	TLB	C.ROT	-	C.ROT	FSR, RDM, CLS
61.	IMH 1607	MLB, CLS	-	-	-	CLS	TLB	MLB	MLB	TLB, C.ROT, C.RUST	FSR, RDM
62.	IMH 1526	MLB, TLB, CLS	MLB	MLB	C.RUST	-	-	BLSB, C.ROT	-	TLB, C.ROT	FSR, RDM
63.	IMH 1610	MLB, TLB, CLS	-	-	C.ROT	RDM	-	MLB	-	TLB	FSR, CLS
64.	BIO 509	MLB, CLS	MLB	-	C.ROT	CLS	TLB	C.ROT, BSR	-	C.RUST	FSR
65.	JH 13023	MLB, CLS	MLB, BSR	-	C.ROT, C.RUST SDM	RDM	TLB	BLSB, C.ROT	MLB	TLB	-
66.	QMH-1470	MLB, CLS	-	-	C.ROT	RDM, CLS	TLB	MLB	MLB	TLB, C.RUST	FSR
67.	JH 15106	MLB, CLS	-	-	C.ROT	-	TLB	MLB, BSR	MLB	C.RUST	-
68.	JH 15135	MLB, TLB, CLS	BSR	MLB	-	RDM, CLS	-	MLB	-	TLB, C.ROT	FSR
69.	NS 8181	MLB, CLS	-	-	-	-	TLB	MLB	-	TLB, C.RUST	FSR, RDM, CLS
70.	IMH 1528	MLB, TLB, CLS	MLB	-	TLB, C.ROT	FSR, RDM, CLS	-	-	-	-	-
71.	JH 13337	MLB, TLB, CLS	MLB	MLB	TLB, C.ROT	RDM, CLS	-	BSR	-	SDM	FSR
72.	JH 15011	MLB, CLS	BSR	-	C.ROT	FSR, CLS	TLB	MLB, C.ROT	-	-	RDM
73.	AH-7210	MLB, CLS	BSR	-	C.ROT	FSR, RDM, CLS	TLB	MLB	-	C.RUST	-

S.No	Genotype	Resistant					Moderately Resistant				
		NHZ	NWPZ	NEPZ	PZ	CWZ	NHZ	NWPZ	NEPZ	PZ	CWZ
74.	AH-1601	MLB, CLS	-	-	-	FSR, RDM	TLB,	MLB, C.ROT	-	TLB, C.ROT, C.RUST	-
75.	IMH 1527	MLB, TLB, CLS	-	-	-	FSR	-	MLB	MLB	C.ROT	RDM
76.	MMH 1302	MLB, CLS	-	-	-	RDM, CLS	TLB	MLB, C.ROT BSR	-	C.ROT	FSR
77.	RMH 815	MLB, TLB, CLS	MLB	MLB	-	RDM, CLS	-	-	-	TLB, C.ROT, C.RUST	FSR
78.	NRI MH4	MLB, CLS	BSR	-	C.ROT	RDM	TLB,	MLB, C.ROT	-	C.RUST	FSR
79.	QMH-1435	MLB, CLS	-	-	-	CLS	TLB,	MLB, BLSB	-	TLB, C.ROT	FSR, RDM
80.	QMH-1478	MLB, TLB, CLS	-	MLB	C.RUST	RDM, CLS	-	MLB, C.ROT	-	TLB	FSR
81.	AH-1602	MLB, TLB, CLS	-	-	TLB	CLS	-	MLB, C.ROT, BSR	MLB	C.ROT, C.RUST	FSR, RDM
82.	JH 15004	MLB, CLS	MLB, BSR	MLB	TLB, C.ROT	CLS	TLB	C.ROT	-	-	FSR, RDM
83.	AH-7005	MLB, CLS	-	-	-	RDM	TLB	MLB, BSLB	-	C.ROT, C.RUST	FSR
84.	JH 15080	MLB, TLB, CLS	MLB	-	TLB	CLS	-	C.ROT, BSR	MLB	C.ROT, C.RUST	FSR
85.	BIO 716	CLS	BSR	-	-	-	MLB , TLB	MLB	-	TLB, C.ROT, C.RUST	RDM
86.	CAH-1533	MLB, CLS	MLB	-	-	CLS	TLB	-	MLB	TLB, C.ROT, C.RUST	FSR, RDM
87.	BIO 274	MLB, TLB, CLS	BSR	MLB	C.ROT, C.RUST	RDM, CLS	-	MLB, C.ROT	-	TLB, SDM	FSR
88.	IMH 1602	MLB, TLB, CLS	MLB	-	-	RDM	-	BLSB, C.ROT	-	TLB, C.ROT	FSR
89.	JH 13227	MLB, TLB, CLS	-	-	-	RDM, CLS	-	MLB, C.ROT , BSR	MLB	TLB, C.ROT	FSR
90.	IMH 1533	MLB, TLB, CLS	MLB	-	-	RDM, CLS	-	-	MLB	C.ROT, C.RUST	FSR
91.	IMH 1547	MLB, TLB, CLS	-	-	-	CLS	-	MLB	-	TLB, C.ROT	FSR, RDM
92.	NS 8001	TLB, CLS	-	-	C.ROT	CLS	MLB	MLB, C.ROT	MLB	TLB	FSR

MPT 2. Screening of maize hybrids in NIVT (medium maturity, Trial 62A & 62B)

Multilocation testing of 79 genotypes under this group was done (Table 3 and 4), Promising genotypes with multiple disease resistance (MDR) is below:

S.No	Genotype	Resistant					Moderately resistant				
		NHZ	NWPZ	NEPZ	PZ	CWZ	NHZ	NWPZ	NEPZ	PZ	CWZ
Trial 62A											
1.	OMH 14-18 (CAH 1519)	MLB, CLS	MLB	MLB	TLB, C.RUST	-	TLB	-	-	C.ROT	RDM, CLS
2.	DH-291	MLB, CLS	MLB	MLB	C.ROT	RDM, CLS	BSR	BSR	-	-	FSR
3.	GH-150141 (CAH1441)	MLB, CLS	-	-	C.ROT	RDM	TLB	MLB	-	TLB, C.RUST	FSR
4.	WH-2002	CLS	-	-	C.ROT	-	MLB, TLB	MLB	-	TLB	-
5.	MM9222	MLB, TLB, CLS	-	-	C.ROT	-	-	MLB, BLSB, C.ROT	MLB	-	FSR
6.	BLH 112	MLB, CLS	-	-	-	-	TLB,	MLB	-	TLB, C.ROT	-
7.	VaMH 14020	MLB, TLB, CLS	-	-	TLB, C.ROT	RDM	-	MLB	MLB	C.RUST	CLS
8.	BLH 113	MLB, CLS	BSR	-	C.ROT	RDM	TLB	MLB	-	TLB, C.RUST	-
9.	DH-303	MLB, CLS	-	-	C.ROT	CLS	TLB	MLB, BSR	-	TLB, C.RUST	-
10.	UDMH-128	MLB, CLS	-	-	C.ROT	RDM	TLB	MLB	-	-	FSR
11.	IQ8319	MLB, CLS	MLB, BSR	MLB	C.ROT, C.RUST	RDM, CLS	TLB,	C.ROT	-	-	FSR
12.	GH-150114 (CAH1414)	MLB, TLB, CLS	MLB	-	TLB, C.ROT, C.RUST	CLS		-	-	-	-
13.	IMHBG-2016-2	MLB, TLB, CLS	MLB, BSR	-	TLB, C.RUST	RDM	-	C.ROT	-	C.ROT	FSR, CLS
14.	Kranthi	MLB, CLS	-	-	C.RUST	RDM	TLB,	MLB, BLSB, BSR	-	TLB, C.ROT	CLS
15.	JKMH 4157	MLB, TLB, CLS	MLB	-	-	RDM	-	C.ROT	-	TLB, C.ROT, C.RUST	FSR
16.	BLH 111	CLS	-	-	C.ROT	-	MLB, TLB,	MLB, C.ROT	MLB	-	-
17.	KMH-14-37	CLS	-	-	C.ROT	-	MLB	MLB	-	-	FSR, RDM
18.	IQ8712	MLB, TLB, CLS	MLB	-	TLB, C.ROT, C.RUST	-	-	C.ROT	MLB	-	FSR
19.	IIMRNH 2016-1	TLB, CLS	MLB	-	TLB	RDM	MLB, BSR	-	MLB	C.ROT, C.RUST	CLS
20.	WH-1003	MLB, TLB, CLS	MLB	MLB	C.ROT	RDM, CLS	-	-	-	TLB	-
21.	IQ8627	MLB, TLB, CLS	MLB	-	C.ROT	CLS	-	BSR	MLB	TLB, C.RUST, SDM	FSR, RDM
22.	OMH 14-30 (CAH 1514)	MLB, TLB, CLS	MLB	-	-	RDM	BSLB	BSR	-	TLB, C.ROT	FSR
23.	UDMH-129	MLB, CLS	-	-	C.ROT	RDM	TLB,	MLB	-	TLB, C.RUST	FSR

S.No	Genotype	Resistant					Moderately resistant				
		NHZ	NWPZ	NEPZ	PZ	CWZ	NHZ	NWPZ	NEPZ	PZ	CWZ
24.	KMH-14-73	CLS	-	-	-	-	MLB	MLB	-	-	FSR, RDM, CLS
25.	GOLD-1155	MLB, TLB, CLS	MLB, BSR	-	TLB, C.RUST	CLS	-	-	-	C.ROT	RDM
26.	Gagan	CLS	-	-	C.ROT	CLS	MLB, TLB	MLB	-	-	FSR, RDM
27.	IMHBG-2016-4	MLB, TLB, CLS	BSR	MLB	TLB, C.ROT, C.RUST	RDM, CLS	-	MLB, C.ROT	-	-	FSR
28.	IQ7802	MLB, CLS	-	-	-	RDM	TLB	MLB	MLB	TLB	FSR
29.	FCH-11267	MLB, TLB, CLS	MLB	-	C.ROT, C.RUST	RDM	-	C.ROT	MLB	-	-
30.	JKMH 1414	MLB, TLB, CLS	-	-	C.RUST	CLS	-	MLB	MLB	C.ROT	RDM
31.	IMHBG-2016-1	MLB, CLS	MLB	-	-	RDM, CLS	TLB	-	MLB	-	-
32.	WH-2006	MLB, TLB, CLS	MLB	-	C.RUST	-	-	-	-	TLB, C.ROT	FSR
33.	IMHBG-2016-5	TLB, CLS	MLB	-	C.ROT	RDM, CLS	MLB	BLSB	-	TLB	FSR
34.	IMHBG-2016-6	MLB, TLB, CLS	-	MLB	TLB, C.RUST	RDM, CLS	-	MLB, C.ROT, BSR	-	C.ROT	FSR
35.	GH-150125 (CAH1525)	MLB, TLB, CLS	MLB	-	TLB, C.ROT, C.RUST	CLS	-	-	-	-	RDM
36.	DH-302	MLB, TLB, CLS	-	-	-	CLS	-	MLB	-	TLB, C.ROT, C.RUST	FSR
Trial 62B											
37.	LMH 616	MLB, TLB, CLS	-	MLB	TLB, C.ROT	FSR	BSR	MLB, C.ROT	-	-	RDM, CLS
38.	IMH 1607	CLS	-	-	C.ROT	RDM, CLS	MLB, TLB	MLB	-	C.RUST	FSR
39.	IMH 1606	TLB, CLS	-	-	C.ROT	RDM, CLS	MLB	MLB	MLB	TLB, C.RUST	FSR
40.	IMH 1526	MLB, TLB, CLS	-	MLB	C.ROT	RDM	-	MLB	-	TLB	FSR
41.	HKH 354	TLB, CLS	-	-	C.ROT	RDM	MLB	MLB	-	TLB	FSR, CLS
42.	IMH 1609	CLS	-	-	C.ROT	CLS	MLB, TLB	MLB	-	-	FSR, RDM
43.	DMRH 1419	MLB, CLS	-	-	-	CLS	TLB	MLB, C.ROT, BSR	-	-	FSR, RDM
44.	LMH 916	MLB, CLS	-	MLB	TLB	CLS	TLB	MLB	-	C.ROT, C.RUST	FSR
45.	LMH 816	MLB, TLB, CLS	MLB	-	-	RDM	-	C.ROT, BSR	MLB	TLB, C.ROT	FSR, CLS
46.	IMH 1604	MLB, CLS	-	-	C.ROT, C.RUST	RDM, CLS	TLB, BSR	BSR	MLB	-	FSR

S.No	Genotype	Resistant					Moderately resistant				
		NHZ	NWPZ	NEPZ	PZ	CWZ	NHZ	NWPZ	NEPZ	PZ	CWZ
47.	IMH 1605	MLB, TLB, CLS	-	-	C.ROT	RDM	BSR	MLB	-	C.RUST	FSR, CLS
48.	LMH 1116	MLB, TLB, CLS	BSR	MLB	TLB, C.ROT, C.RUST	CLS	-	MLB	-	-	FSR
49.	IMH 1608	TLB, CLS	MLB	-	C.ROT	-	MLB	-	-	C.RUST	FSR, RDM, CLS
50.	EH-2906	MLB, TLB, CLS	-	-	TLB, C.ROT	RDM, CLS	-	MLB	MLB	-	-
51.	LMH 716	MLB, TLB, CLS	-	-	C.ROT	CLS	-	MLB	MLB	TLB	FSR
52.	VEH-16-1	MLB, TLB, CLS	-	-	C.ROT	RDM, CLS	-	MLB	MLB	TLB	FSR
53.	IMH 1601	MLB, CLS	BSR	-	C.ROT	CLS	TLB	MLB	-	-	FSR, RDM
54.	HKH 355	MLB, CLS	-	-	C.ROT	RDM, CLS	TLB	-	-	TLB	FSR
55.	MMH 1403	MLB, TLB, CLS	BSR	MLB	C.ROT	CLS	-	MLB, C.ROT	-	TLB	RDM
56.	HKH 356	MLB, CLS	-	-	-	CLS	TLB	MLB	-	TLB, C.ROT	FSR, RDM
57.	KH-2001 Gold	CLS	-	MLB	-	RDM, CLS	MLB, TLB	MLB	-	C.ROT	FSR
58.	IMH 1602	MLB, TLB, CLS	-	-	TLB	FSR, RDM, CLS	-	MLB	MLB	C.ROT, C.RUST	-
59.	BH 414176	MLB, TLB, CLS	-	MLB	C.ROT	RDM, CLS	-	MLB, BSR	-	TLB	FSR
60.	CCH 9999	MLB, CLS	-	-	-	RDM, CLS	TLB	MLB	-	C.ROT	FSR
61.	LMH 1216	MLB, CLS	BSR	MLB	TLB, C.ROT	RDM, CLS	TLB	MLB, C.ROT	-	C.RUST	FSR
62.	DMRH 1410	MLB, TLB, CLS	MLB, BSR	-	-	RDM, CLS	BSR	-	MLB	C.ROT, C.RUST	FSR
63.	BH 414351	MLB, CLS	-	-	-	CLS	TLB, BSR	MLB	-	TLB, C.RUST	RDM
64.	HKH 353	MLB, TLB, CLS	-	-	-	CLS	-	MLB	-	C.ROT	FSR
65.	LMH 1016	TLB, CLS	-	MLB	TLB, C.ROT	FSR, CLS	MLB, BSR	MLB, C.ROT, BSR	-	-	RDM
66.	INDAM-1122	MLB, TLB, CLS	BSR	-	TLB, C.ROT	RDM	BSR	MLB	-	-	-
67.	IMH 1603	MLB, TLB, CLS	BSR	-	C.ROT	RDM, CLS	-	MLB	-	TLB	-
68.	DAS-MH-310	MLB, TLB, CLS	-	-	TLB, C.RUST	CLS	BSR	MLB	MLB	C.ROT	FSR, RDM

S. No	Genotype	Resistant					Moderately resistant				
		NHZ	NWPZ	NEPZ	PZ	CWZ	NHZ	NWPZ	NEPZ	PZ	CWZ
69.	IMH 1527	TLB, CLS	-	-	-	-	MLB, BSR	MLB, BSR	-	TLB, C.ROT	FSR, RDM, CLS
70.	IMH 1533	TLB, CLS	-	-	-	RDM, CLS	MLB	MLB	MLB	C.ROT	FSR
71.	AH-7080	MLB, TLB, CLS	-	-	`	RDM, CLS		MLB	MLB	C.ROT	-
72.	MH 24	MLB, TLB, BSLB, CLS	-	MLB	-	RDM, CLS	-	MLB	-	C.RUST	FSR

MPT 3-4. Screening of maize hybrids in NIVT (early maturity & extra early maturity, Trial 63 & 64)

Multilocation testing of 40 genotypes under this group was done (Table 5), Promising genotypes with multiple diseases resistance (MDR) are below:

S.No	Genotype	Resistant					Moderately resistant				
		NHZ	NWPZ	NEPZ	PZ	CWZ	NHZ	NWPZ	NEPZ	PZ	CWZ
Early maturity											
1.	JH 31784	MLB, BSLB, CLS	BSR	-	C.ROT	CLS	BSR	MLB	MLB	C.RUST	FSR
2.	JH 31801	CLS	-	-	C.ROT, C.RUST	CLS	MLB, TLB, BSR	MLB	-	-	FSR, RDM
3.	AH-7204	CLS	-	-	-	-	MLB, TLB	MLB, BSR	MLB	-	FSR, RDM
4.	JH 31783	MLB, CLS	BSR	-	-	-	TLB, BSR	MLB	-	-	FSR, RDM
5.	KMH-14-46	CLS	-	-	-	RDM	MLB, TLB, BSR	MLB, BSR	-	C.ROT	FSR
6.	JH 31816	MLB, CLS	BSR	-	-	-	-	MLB	MLB	C.ROT	FSR, RDM
7.	JH 31794	MLB, CLS	BSR	-	-	-	BSR	MLB, C.ROT	MLB	C.ROT, C.RUST	FSR, RDM
8.	KH-102	MLB, CLS	-	MLB	-	CLS		MLB, BSR	-	TLB, C.ROT, C.RUST	FSR, RDM
9.	BAUMC-5	MLB, CLS	BSR	-	TLB, C.RUST	CLS	TLB	-	-	C.ROT	FSR, RDM
10.	AH9002	CLS	-	MLB	-	-	TLB, BSR	MLB	-	TLB, C.ROT	-
11.	AH-7009R	MLB, CLS	-	-	C.ROT	CLS	BSR	MLB	MLB	-	FSR
12.	WH-2096	CLS	-	-	-	CLS	MLB, TLB, BSR	MLB	-	C.ROT	FSR, RDM
13.	DMRH 1417	CLS	-	-	-	RDM	MLB	MLB	MLB	TLB, C.ROT, C.RUST	FSR, CLS
14.	KMH-14-50	CLS	-	-	-	FSR	MLB, BSR	-	MLB	C.ROT	RDM
15.	WH-2093	CLS	-	-	-	-	MLB, TLB	MLB	-	C.ROT, C.RUST	FSR, RDM
16.	JH 31780	CLS	MLB, BSR	-	-	RDM	MLB, BSR	-	MLB	C.RUST	FSR
17.	HKH 351	MLB, CLS	-	-	C.ROT	RDM, CLS	TLB	MLB	MLB	-	FSR

18.	AH-7154	CLS	BSR	-	-	RDM	MLB, TLB, BSR	MLB	-	TLB, C.ROT	FSR, CLS
19.	FH 3768	CLS	BSR	-	-	RDM, CLS	MLB, TLB, BSR	MLB	MLB	TLB, C.ROT, C.RUST	FSR
20.	KDMH-105	MLB, CLS	-	MLB	C.RUST	RDM	TLB	MLB, BSR	-	C.ROT	-
21.	IH-0901	TLB, CLS	-	-	C.ROT	-	MLB	-	-	-	FSR, RDM
22.	IH-0702	CLS	-	-	-	RDM	MLB, TLB, BSR	BSR	-	C.ROT	FSR
23.	IH-1204	CLS	-	-	-	RDM	MLB, TLB, BSR	-	MLB	C.ROT	FSR, CLS
24.	IH-0903	CLS	-	-	-	CLS	MLB, TLB	MLB	-	C.ROT	FSR, RDM
25.	AH-7007	TLB, CLS	-	-	C.ROT	-	MLB, BSR	BSR	MLB	-	FSR, RDM
26.	MH 21	MLB, CLS	BSR	-	-	-	TLB	MLB	-	C.ROT	RDM
27.	KMH-14-55	CLS	-	-	-	RDM, CLS	MLB, TLB	-	-	C.ROT	FSR
28.	FH 3763	TLB, CLS	-	-	TLB	RDM	MLB ,	MLB	-	C.ROT, C.RUST	FSR
29.	MH 22	MLB , CLS	-	MLB	C.ROT	-	TLB	MLB, BSR	-	TLB	FSR, RDM
30.	HKH 352	MLB , CLS	-	-	-	FSR, RDM	BSR	-	MLB	C.ROT	-
31.	DH-304	MLB , CLS	MLB	-	TLB, C.RUST	RDM	TLB	BSR	MLB	C.ROT	FSR
Extra Early											
32.	DH-305	MLB , CLS	BSR	-	-	FSR, RDM	TLB	MLB	-	C.ROT	-
33.	BAUM-4	CLS	-	MLB	-	RDM	MLB , TLB	-	-	C.ROT	FSR
34.	FH 3765	MLB , CLS	-	-	-	FSR	TLB	MLB	MLB	TLB, C.ROT	RDM
35.	FH 3771	TLB, CLS	-	-	C.ROT	-	MLB	MLB	MLB	TLB, C.RUST	FSR, CLS

MPT 5. Screening of maize hybrids in AVT I & AVT II (late maturity, Trial 75)

Multilocation testing of 24 genotypes under this group was done (Table 6), Promising genotypes with multiple diseases resistance (MDR) are below:

S.No	Genotype	Resistant					Moderately resistant				
		NHZ	NWPZ	NEPZ	PZ	CWZ	NHZ	NWPZ	NEPZ	PZ	CWZ
AVT-I Late											
1.	DKC8161 (IP8570)	MLB, TLB, CLS	-	-	C.RUST	RDM, CLS	-	MLB	MLB	TLB, C.ROT	FSR
2.	KMH-2852	MLB, CLS	-	-	-	RDM	TLB	MLB, C.ROT , BSR	MLB	TLB, C.ROT	CLS

3.	C.P 802	MLB, CLS	-	MLB	C.ROT, C.RUST	CLS	TLB, BSR	MLB, C.ROT, BSR	-	TLB	FSR
4.	PM15103L	MLB, CLS	BSR	MLB	C.ROT	CLS	TLB	MLB, C.ROT	-	C.RUST	FSR
5.	DKC9164 (IP9002)	MLB, CLS	BSR	-	C.ROT	RDM, CLS	TLB, BSR	MLB	MLB	C.RUST	FSR
6.	PM15104L	MLB, CLS	BSR	-	C.ROT	CLS	TLB	MLB	MLB	TLB	FSR, RDM
7.	DKC9163 (IP8703)	MLB, CLS	BSR	-	C.ROT	FSR, RDM, CLS	TLB	MLB	-	C.RUST	-
8.	VNR-31565 (IMR-143)	MLB, CLS	-	MLB	-	FSR, RDM, CLS	-	MLB, C.ROT, BSR	-	TLB, C.ROT	-
9.	SMH-3902	CLS	-	-	C.ROT	CLS	MLB, TLB, BSR	MLB	MLB	C.RUST	FSR
10.	CMH12-686	MLB, TLB, CLS	-	MLB	C.ROT, C.RUST	CLS	-	MLB, BSR	-	TLB	FSR
11.	DKC9167 (IP8708)	MLB, CLS	-	-	C.ROT, SDM	CLS	TLB	MLB, BSR	-	-	FSR, RDM
12.	SYN516753	MLB, CLS	BSR	-	TLB, C.ROT, C.RUST	RDM, CLS	TLB	BLSB	-	-	FSR
13.	DAS-MH-111	MLB, TLB, CLS	-	MLB	C.ROT	CLS	-	MLB, C.ROT, BSR	-	C.RUST	FSR
14.	ADV 7022	MLB, CLS	-	-	C.ROT, SDM	RDM, CLS	TLB,	MLB, BSR	-	TLB	FSR
15.	CMH12-688	MLB, TLB, CLS	BSR	-	C.ROT, C.RUST	-	-	MLB, BLSB	MLB	TLB	FSR, CLS
16.	BL 103	MLB, CLS	-	-	C.ROT	-	TLB	MLB	MLB	C.RUST, SDM	FSR, CLS
AVT-II Late											
17.	HT 51412616	MLB, CLS	-	MLB	C.ROT	CLS	TLB	MLB, BSR	-	SDM	FSR, RDM
18.	DKC9151(IN8902)	MLB, CLS	BSR	MLB	C.ROT	RDM, CLS	TLB	C.ROT	-	C.RUST	FSR
19.	DMH192	MLB, CLS	-	MLB	TLB, C.ROT, C.RUST	FSR, CLS	TLB	MLB, BSR	-	-	RDM
20.	ADV 0990296	MLB, CLS	BSR	-	C.ROT	CLS	TLB	MLB, BLSB, C.ROT	MLB	TLB, C.RUST, SDM	FSR
21.	KH-2192	MLB, CLS	-	-	C.ROT	RDM, CLS	TLB	MLB, C.ROT, BSR	MLB	C.RUST	FSR

MPT 6. Screening of maize hybrids in AVT I & AVT II (medium maturity, Trial 76)

Multilocation testing of 17 genotypes under this group was done (Table 7) Promising ones with multiple disease resistance (MDR) are below:

		Resistant					Moderately resistant				
S.No	**Genotype**	**NHZ**	**NWPZ**	**NEPZ**	**PZ**	**CWZ**	**NHZ**	**NWPZ**	**NEPZ**	**PZ**	**CWZ**
AVT-I Medium											
1.	IIMRNH 2015-4	MLB, CSL	MLB	MLB	C.ROT	CLS	TLB,	-	-	TLB, C.RUST	FSR
2.	BL 107	MLB, CLS	BSR	-	-	CLS	TLB	MLB	MLB	C.ROT	FSR
3.	KMH-13-5	MLB, CLS	-	-	-	-	-	-	-	C.ROT	FSR, RDM, CSL
4.	JH 13348	MLB, CLS	MLB, BSR	-	TLB, C.ROT	RDM, CLS	TLB	C.ROT	MLB	-	FSR
5.	LMH 615	MLB, CLS	-	MLB	C.ROT	CLS	TLB	MLB, BSR	-	-	FSR
6.	BL 106	MLB, CLS	BSR	-	-	FSR, CLS	TLB	MLB	MLB	C.ROT	-
7.	VaMH 12014	MLB, TLB, CLS	-	-	C.ROT	RDM, CLS	-	MLB	MLB	-	FSR
8.	JKMH 4103	CLS	-	-	-	FSR, CLS	MLB, TLB,	MLB, BSR	MLB	TLB, C.ROT	RDM
9.	JH 13347	MLB, CLS	MLB, BSR	MLB	C.ROT	FSR, CLS	TLB	-	-	C.RUST	RDM
10.	HM15206	MLB, CLS	MLB	-	C.ROT	RDM, CLS	TLB	C.ROT, BSR	MLB	TLB, C.RUST	FSR
11.	HM15207	MLB, CLS	-	-	C.ROT	RDM	TLB	MLB, C.ROT	MLB	TLB	FSR, CLS
AVT-II Medium											
12.	JH 31605	MLB, CLS	MLB	-	C.ROT	RDM, CLS	TLB	C.ROT, BSR	-	C.RUST	FSR
13.	C.P 201	MLB, CLS	MLB	-	-	RDM	TLB	BLSB	-	TLB, C.ROT	FSR, CLS
14.	JKMH 4848	CLS	-	-	C.ROT	FSR	MLB, TLB	MLB, BSR	MLB	C.RUST	CLS

MPT 7. Disease screening of maize hybrids in AVT I (early maturity, Trial 77)

Multilocations testing of 8 genotypes under this group (Table 8), Promising ones with multiple disease resistance (MDR) are below:

		Resistant					Moderately resistant				
S.No	**Genotype**	**NHZ**	**NWPZ**	**NEPZ**	**PZ**	**CWZ**	**NHZ**	**NWPZ**	**NEPZ**	**PZ**	**CWZ**
	AVT-I Early										
1.	KMH-13-15	MLB, CLS	-	-	-	-		MLB		C.ROT	FSR, CLS
2.	FH 3754	MLB, CLS	-	-	-	-	TLB,	MLB	MLB	C.ROT	FSR, RDM, CLS
3.	JH 31785	MLB, CLS	BSR	-	-	CLS	-	MLB	MLB	C.ROT	FSR
4.	JKMH 4222	MLB, CLS	-	-	C.ROT	CSL	BSR	MLB	-	-	FSR, RDM
5.	AH-7006	MLB, CLS	-	-	C.ROT	-	TLB,	MLB	-	-	FSR, CLS
6.	DMRH 1305	MLB, CLS	-	-	-	RDM, CLS	TLB, BSR	MLB	MLB	TLB, C.ROT	FSR

MPT 9-12. Screening of specialty corn hybrids

Multilocation testing of 69 genotypes under this group was done (Table 9, 10, 11 and 12), Promising ones with multiple disease resistance (MDR) are below:

A. Popcorn

		Resistant			Moderately resistant			
S.No	**Genotype**	**NHZ**	**NWPZ**	**PZ**	**NHZ**	**NWPZ**	**PZ**	**CWZ**
1.	DPCH-306	MLB, CLS	-	C.ROT	TLB	BSR	-	FSR
2.	IMHP-1535	MLB, CLS	-	-	TLB	-	C.ROT	FSR
3.	ROBUST 265	MLB, CLS	-	-	-	MLB	C.ROT	FSR
4.	AP6005	MLB, CLS	-	-	TLB	MLB	C.ROT	FSR
5.	IHPC-1201	MLB, CLS	BSR	C.ROT	-	MLB	-	FSR
6.	ROBUST 427	MLB, CLS	-	-	-	MLB	-	-
7.	IMHP 1540	MLB, CLS	-	-	TLB	BSR	C.ROT	FSR
8.	IHPC-1203	MLB, CLS	BSR	-	TLB	MLB, C.ROT	C.ROT	FSR
9.	Pop corn(JayaShree)	MLB, CLS	-	-	-	-	C.ROT	FSR
10.	SJPC1	MLB, CLS	BSR	-	TLB	MLB	C.ROT	FSR
11.	DMRHP-1402	MLB, CLS	-	-	TLB	-	C.ROT	FSR
12.	AP2202	MLB, CLS	-	-	TLB,	-	C.ROT	FSR
13.	MPC 1-15	MLB, CLS	-	-	TLB	MLB, BSR	C.ROT	FSR

B. Sweet Corn

		Resistant				Moderately resistant				
S.No	**Genotype**	**NHZ**	**NWPZ**	**NEPZ**	**PZ**	**NHZ**	**NWPZ**	**NEPZ**	**PZ**	**CWZ**
1.	FSCH 91	MLB	-	-	-	TLB, CLS	MLB	MLB	C.ROT	FSR
2.	ASKH 4	MLB, CLS	BSR	MLB	-	TLB	MLB	-	C.ROT	-
3.	VEHS-16-1	MLB, CLS	-	-	-	TLB, BSR	MLB	-	C.ROT	FSR
4.	ASKH 6	MLB, CLS	BSR	MLB	-	TLB	MLB	-	C.ROT	FSR
5.	FSCH 55*	MLB, CLS	-	-	-	TLB	MLB	MLB	C.ROT	-
6.	Madhula	MLB, CLS	BSR	-	C.ROT	TLB	MLB	MLB	-	FSR
7.	BIO 4043	MLB, CLS	-	-	C.ROT	TLB	MLB, BSR	MLB	-	RDM
8.	FSCH 75	MLB, CLS	-	-	-	TLB	-	-	C.ROT	FSR
9.	BSCH 6	MLB, CLS	-	-	-	TLB	-	MLB	C.ROT	-
10.	MITHAS	MLB, TLB, CLS	BSR	-	-	-	MLB	MLB	-	-

C. Baby Corn

S.No	**Genotype**	Resistant					Moderately resistant				
		NHZ	**NWPZ**	**NEPZ**	**PZ**	**CWZ**	**NHZ**	**NWPZ**	**NEPZ**	**PZ**	**CWZ**
1.	AH-5021	MLB, CLS	MLB, BSR	MLB	C.RUST	-	TLB	-	-	C.ROT	FSR
2.	IMHB 1537	MLB, TLB, CLS	-	-	TLB	CLS	-	MLB, BSR	MLB	C.ROT, C.RUST	FSR

3.	BVM-2	MLB, CLS	-	-	-	-	TLB	MLB	-	C.ROT, C.RUST	FSR
4.	DMRHB 1305	MLB, TLB, CLS	-	MLB	TLB	RDM	-	MLB	-	C.ROT	FSR, CLS
5.	AH-7043	MLB, TLB, CLS	MLB, BSR	MLB	C.ROT	RDM, CLS	-	-	-	-	FSR
6.	IMHB 1525	MLB, CLS	BSR	-	-	RDM, CLS	TLB	MLB	MLB	C.ROT, C.RUST	FSR
7.	IMHB 1538	MLB, TLB, CLS	MLB, BSR	-	C.ROT	CLS	-	-	-	TLB	FSR, RDM
8.	MBC 11-15	MLB, CLS	-	-	C.ROT	-	TLB	MLB	-	-	FSR
9.	IMHB 1529	MLB, TLB, CLS	MLB	-	C.ROT	CLS	-	-	MLB	TLB, C.RUST	FSR, RDM
10.	IMHB 1531	MLB, TLB, CLS	BSR	-	C.ROT	CLS	-	MLB	MLB	TLB, C.RUST	FSR, RDM
11.	GAYMH-1	MLB, CLS	BSR	-	C.ROT	-	TLB	MLB	MLB	C.RUST	FSR, RDM , CLS
12.	IMHB 1539	MLB, CLS	-	MLB	-	CLS	TLB	MLB	-	TLB, C.ROT, C.RUST	FSR
13.	IMHB 1532	MLB, TLB, CLS	BSR	MLB	TLB	RDM, CLS	-	MLB	-	C.ROT, C.RUST	FSR

D. QPM

S.No	Genotype	Resistant					Moderately resistant				
		NHZ	NWPZ	NEPZ	PZ	CWZ	NHZ	NWPZ	NEPZ	PZ	CWZ
1.	QPM-MH-27	MLB, TLB CLS	-	-	TLB, C.ROT	RDM, CLS	-	MLB, BSR	MLB	C.RUST	FSR
2.	IIMRQPMH 1501	MLB, TLB, CLS	BSR	MLB	TLB, C.ROT, C.RUST	RDM, CLS	-	MLB	-	-	FSR
3.	VEHQ-16-1	CLS	MLB	-	-	RDM	MLB, TLB, BSR	-	MLB	C.ROT	FSR
4.	IMHQPM 1530	MLB, TLB, CLS	-	-	-	CLS	-	MLB	MLB	TLB, C.ROT	FSR
5.	IIMRQPMH 1608	MLB, TLB, CLS	-	-	TLB, C.ROT	RDM	BSR	MLB	-	C.RUST	FSR
6.	IIMRQPMH 1605	TLB, CLS	-	-	-	RDM, CLS	MLB, BSR	MLB	-	TLB, C.ROT	FSR
7.	IIMRQPMH 1603	MLB, TLB CLS	-	-	TLB, C.ROT	RDM, CLS	BSR	MLB, BSR	-	-	FSR
8.	FQH 106	MLB, TLB, CLS	-	-	C.ROT	RDM, CLS	BSR	MLB	MLB	TLB	FSR
9.	IIMRQPMH 1606	MLB, TLB, CLS	-	-	-	RDM	BSR	MLB	MLB	TLB, C.ROT	FSR
10.	IIMRQPMH 1508	MLB, TLB, CLS	-	-	-	FSR, RDM	-	MLB, BSR	MLB	C.ROT	-

11.	KDQH-51	MLB, CLS	-	-	-	RDM	TLB, BSR	MLB	-	C.ROT	FSR
12.	IIMRQPMH 1601	MLB, TLB, CLS	-	-	C.ROT	RDM, CLS	BSR	MLB	MLB	TLB	FSR
13.	IIMRQPMH 1609	MLB, TLB, CLS	BSR	-	TLB, C.ROT	RDM	BSR	MLB, BLSB	MLB	C.RUST	FSR
14.	IIMRQPMH 1604	MLB, TLB, CLS	-	MLB	C.ROT	RDM	-	MLB, BSR	-	-	FSR
15.	IIMRQPMH 1607	MLB, CLS	BSR	-	C.ROT	RDM	TLB	MLB	MLB	-	FSR
16.	IIMRQPMH 1504	MLB, TLB, CLS	-	-	TLB, C.ROT	RDM, CLS		MLB	MLB	-	FSR
17.	IIMRQPMH 1502	MLB, TLB, CLS	-	MLB	C.ROT	RDM, CLS	-	MLB	-	TLB	FSR
18.	REHQ2014-11	MLB, CLS	MLB	MLB	-	RDM, CLS	TLB,	-	-	TLB, C.ROT	FSR
19.	IIMRQPMH 1610	MLB, TLB, CLS	-	-	C.ROT	RDM, CLS	-	MLB	MLB	-	FSR
20.	IIMRQPMH 1602	MLB, TLB, CLS	BSR	-	TLB, C.ROT	RDM, CLS	-	MLB	-	-	FSR
21.	BQPMH 16	MLB, TLB, CLS	-	-	C.ROT	RDM, CLS	-	MLB, BSR	MLB	TLB	FSR

MPT 13. Screening of maize hybrids was done in all maturity groups, against cyst nematode (*Heterodera zeae*) at Udaipur

Three hundred thirty five maize hybrids belonging to different maturity groups of initial and advance trials were screened (Tables 1-12) against cyst nematode (*Heterodera zeae*). Out of them, 24 entries *viz.;* HT 16607, IMHBG-2016-3, OMH 14-27 (CAH1511), JH 13337, BIO 716, OMH 14-18 (CAH 1519), IMHBG-2016-4, IMHBG-2016-1, IMHBG-2016-6, LMH 616, IMH 1533, KMH-14-46, KH-102C.P 802, ADV 7022, HT 51412616, LMH 615, JH 31605, C.P 201, BQPMH 16, and exhibited moderately resistant reaction.

MPT 14-17. Disease screening of maize inbred lines (Normal, QPM, association panel & Mapping population)

i. Screening of mapping populations (M-12) against MLB

Mapping population of 210 genotypes was tested in different zones (Table 13). Out of them, 93 and 19 genotypes showed resistance against MLB in NEPZ and NWPZ, respectively.

ii. Screening of mapping populations (M-13) against MLB

Mapping population of 207 was screened (Table 14), out of them 7 and 61 inbred lines showed resistance in NWPZ and NEPZ, respectively

iii. Screening of association panel against different diseases of maize

A total of 337 genotypes were tested against different diseases at different zones (Table 15). Those genotypes showing resistant/moderately resistant reactions to different diseases are below:

S.No	Genotype	Resistant			Moderately resistant	
		NHZ	PZ	NWPZ	NHZ	NWPZ
1	BML 7	TLB	TLB, C.RUST	C.ROT	-	-
2	DML-346	-	TLB, C.RUST	-	TLB	C.ROT
3	CML 29	-	TLB, C.RUST	-	TLB	C.ROT
4	CML 40BBB	TLB	TLB, C.RUST	C.ROT	-	-
5	CML 452	-	TLB, C.RUST	-	TLB	C.ROT
6	CM 108	TLB	TLB, C.RUST	C.ROT	-	-
7	CML 278	TLB	TLB, C.RUST	-	-	C.ROT
8	CML 549 W	TLB	TLB, C.RUST	C.ROT	-	-
9	HKI 1128	TLB	TLB, C.RUST	-	-	C.ROT
10	UMI 1210	TLB	TLB, C.RUST	C.ROT	-	-
11	HKI 193-2	-	TLB, C.RUST	-	TLB	C.ROT
12	HKI 1378	TLB	TLB, C.RUST	-	-	C.ROT
13	CML 175	TLB	TLB, C.RUST	-	-	C.ROT
14	HKI 4C4B	TLB	TLB, C.RUST	-	-	C.ROT
15	IML12-10	TLB	TLB, C.RUST	C.ROT	-	-
16	IML12-180	-	TLB, C.RUST	-	TLB	C.ROT
17	IML 15-65	TLB	TLB, C.RUST	C.ROT	-	-
18	IML16-6	TLB	TLB, C.RUST	C.ROT	-	-
19	UMI 1210	TLB	TLB, C.RUST	C.ROT	-	-
20	CML 206	TLB	TLB, C.RUST	-	-	C.ROT
21	CML 334(W)	TLB	TLB, C.RUST	-	-	C.ROT
22	CML 373	TLB	TLB, C.RUST	-	-	C.ROT
23	CML 413	TLB	TLB, C.RUST	-	-	C.ROT
24	CML 540 (W)	TLB	TLB, C.RUST	-	-	C.ROT
25	HKI 1128	TLB	TLB, C.RUST	-	-	C.ROT
26	HKI 1040-7	TLB	TLB, C.RUST	-	-	C.ROT
27	V 335	TLB	TLB, C.RUST	-	-	C.ROT
28	LM 13	-	TLB, C.RUST	C.ROT	-	-

iv. Multilocation screening of inbred lines against MLB under NWPZ

Out of 125 genotypes tested, (Table 16), moderately resistant genotypes are below:

Moderately resistant to MLB:- NWPZ BGS-9, BGS-10, BGS-20, BGS-22, BGS-27, BGS-29, BGS-, 41, BGS-42, BGS-57, BGS-60, BGS-62, BGS-80, BGS-87, BGS-91, BGS-95, BGS-96, 5191, Acc.No.522855, EC440415-2, EC618228-3, EC646016, EC655729, EH2212-2, HY10RN-10235-118-1-3, JCS2-7ÄÄÄÄ, KMH25K60-4, NMH920-2,

v. Multilocation screening of inbred lines against TLB under NHZ & PZ

A total of 114 genotypes were tested (Table 17). Out of them, thirty six genotypes in NHZ and fifteen genotypes in PZ showed resistant reaction.

vi. Multilocation screening of inbred lines against BLSB under NWPZ

Out of 88 genotypes tested, (Table 18), moderately resistant genotypes are given below:

Moderately Resistant: NWPZ - BGS-27, BGS-53, BGS-79, Bio719-5, Bio9544-4, CMH08292-5, DKC9106-3, EC440415-2, Hishell-2, NMH920-4, WNC10RNY5076-2,

vii. screening of inbred lines against Charcoal rot at Ludhiana in NWPZ

Out of 108 genotypes tested, (Table 19), resistant/moderately resistant are below:

Resistant C618179, EC618235

Moderately Resistant:- BGS-5, BGS-15, BGS-19, BGS-23, BGS-25, BGS-37, BGS-50, BGS-52, BGS-54, BGS-56, BGS-61, BGS-70, BGS-73, BGS-84, BGS-87, BGS-89, BGS-93, BGS-94, 4048, Bio 688-2, Bio719-5, CM111´Zeadiploperennis´CM111, CMH08292-5, CML420, CP828-3, DLQ1017-A, DMRWNCHOC45, EC440415-4, EC618988, EH2212, Entry4, FCH 85 -2, FMH11195, GEO2101-4, GPM342, Hishell, Hishell-2, HQPM-1-6-2-3-2-1-2, HY10R-N10235-118, HY10RN-10235-270-2-2, Hyd05R/13-2, JCY2-7-1-2-1-5B-1-4-3-1, KDMI10, KH2192-4, Krishna Gold-8, LM10/LM11-2, NMH920-4, NN42050-1-1, PAC745, PAC745-4, PFSRR10, PFSRR3ÄÄÄÄÄÄ, POBLAC70C0ÄÄÄ, S99TLYQ-HG-AB*4-32-BBB-1, Siri4527-3, TX369-2, WNC10RNY4810-2, WNC10RNY5313-2

viii. Screening of inbred lines against RDM & SDM in PZ

Out of 134 genotypes tested, none of the genotype showed resistant reaction against SDM. Thirty eight genotypes found resistant against RDM (Table 20).

ix. Multilocation Screening of genotypes against PFSR hot spot locations

A total of 84 genotypes tested, out of them 8 were resistant at Delhi, Ludhiana, Udaipur and Hyderabad (Table 21). Promising genotypes are below:

1. PFSR (Y)-C0-1-Ä-4-1Ä-1-1-1-3Ä-1-1-1-1-2-Ä-1-1
2. CM 133-1-1-Ä-1-1
3. CM 105-2-2-1-Ä-1-1
4. CML 44-1-1-1-Ä-1-1
5. North east 4-1 (N)-1-Ä-1-1
6. PFSR (Y)-C1-B Ä-1-1-1-1-Ä-2-1
7. V338 -1Ä-1-1-1 -1-Ä-1-1
8. Yellow grains -1-Ä-2-1

x. Screening of maize inbred lines against TLB at Mandya

One hundred nineteen inbred lines were evaluated the disease reaction of the lines is given in Table 22.

xi. Screening of genotypes against maize cyst nematode, *Heterodera zeae* at Udaipur

Thirty five genotypes were evaluated (Table 23). Out of which five genotypes showed moderately resistant reaction which are Pratap Makka-9, Pratap Hybrid Maize-3, EH-2906, Pratap QPM Hybrid-1, EHQ-64.

xii. Screening of promising genotypes and hybrids against BLSB at Ludhiana

A total of nine inbred lines and six hybrids were screened (Table 24). Four inbred lines (DQL 2051, LM 12, LMDR1, and CM 123) and one hybrid (JH 3459) showed moderately resistant reaction

xiii. Performance of the previous year's resistant station inbred lines against TLB and SDM at Mandya

A total of 21 inbred lines were evaluated at Mandya (Table 25&26).

MPT 18. Assessment of avoidable yield losses due to major diseases of maize

Yield losses due to major diseases of maize were assessed at Dhaulakuan (MLB), Bajaura (TLB), Dharwad (TLB), Mandya (TLB & SDM) and Udaipur (RDM & cyst nematode) centres using paired plot technique under artificially created epiphytotics (Tables 27 to 33). Yield losses were up to 13.40, 87.20, 87.87, 79.86 & 72.21% due to MLB, TLB, SDM, RDM and cyst nematode, respectively.

MPT 19. Maize diseases trap nursery trial

Trap nursery trial was conducted (Table 34) to find out the occurrence of any new disease(s) on maize at various locations *viz.,* Almora, Bajaura, Dhaulakuan, Pantnagar, Kalyani, Delhi, Karnal, Ludhiana, Dholi, Udaipur, Dharwad, Mandya, Hyderabad and Coimbatore. Diseases recorded in these locations were MLB, TLB, BLSB, BSR, PFSR, RDM, SDM, BSDM, CLS, P. rust, brown spot and C. rust in trace to moderate intensity. Disease Anthracnose was also recorded at Pantnagar in low to moderate intensities whereas at Udaipur, common rust was observed which are new to this location.

MPT 20. Survey and surveillance of maize diseases/cyst nematode

i. Occurrence of maize diseases during Kharif 2016

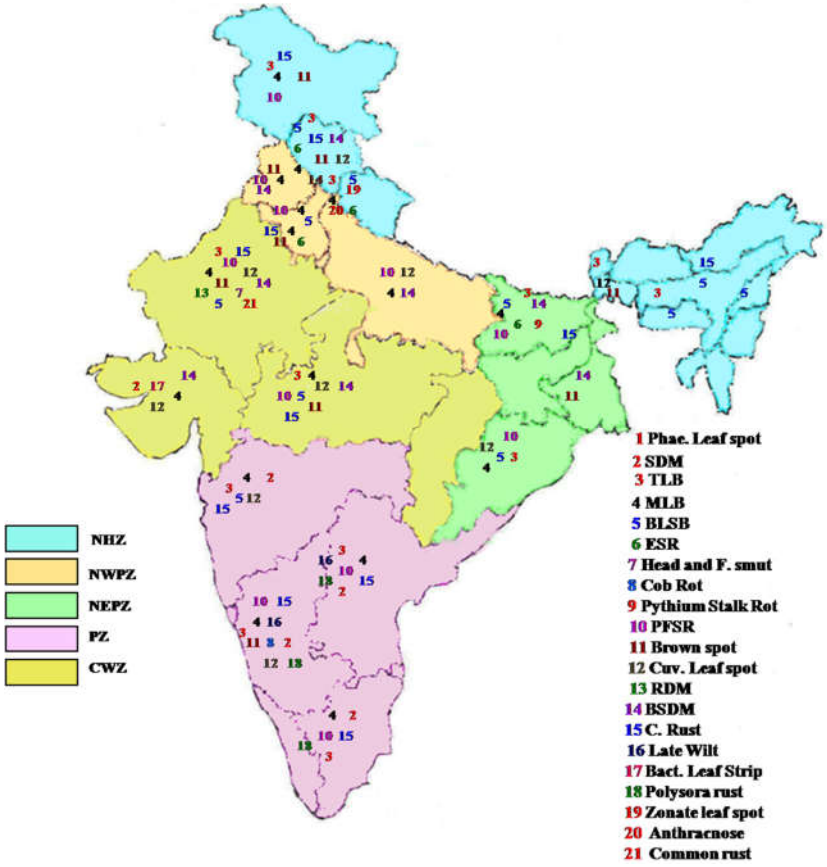
Disease survey and surveillance was undertaken in maize growing areas of Himachal Pradesh (Bajaura, Dhaulakuan), Pantnagar, Ludhiana (Punjab), Haryana (Karnal), Bihar, West Bengal, Rajasthan, Gujarat, Northern Karnataka, Southern Karnataka, Telangana and Tamil Nadu during the *kharif* 2016 (Table 35 to 49).

S. No	States	Locations	Diseases	Severity
1	Himachal Pradesh (Bajaura)	Mandi, Kullu, Bilaspur	TLB	M
			BLSB	M-H
			MLB	L-H
			BS	L-M
			CLS	L
	Himachal Pradesh (Dhaulakuan)	Sirmour	MLB	M-H
			BLSB	M-H
			CLS	M
			ESR	M-H
		Poanta valley (Rampur, Khamba nagar, Parduni, Kotli, Gulabgarh, Toka, Bakuan, Bhatarhan, Surajpur, Johro, Ftehpur, Sainwala, Shivpur, Nihalgarh	MLB	L-H
			TLB	L
			BSR	L-M
			BS	T-L
			CLS	T-M
			BLSB	L-H
2	Uttarakhand	Pantnagar, Udham Singh Nagar	MLB	L-H
			CLS	T-L
			FSR	T
			BS	T-L
			Cerco. L S	M
			Anthracnose	T
			TLB	L

			BSR	T-L
			BLSB	H
			Stem borer	M
3	Punjab	Shaheed Bhagat Singh Nagar, Hoshiarpur, Ludhiana, Ropar, Gurdaspur, Jalandhar	MLB	L-M
			BLSB	M-H
			BSDM	T
			CLS	L
			BLS	L
			BSR	L-M
			PFSR	L-M
4	Haryana	Ambala, Panchkula, Yamuna Nagar, Karnal	MLB	M-H
			BLSB	M-H
			CLS	L-M
			C. Rust	L-M
5	Bihar	Muzaffarpur (Bochaha, Motipur, Pikhi, Mohamadpur, Kanti, Turaki), Samastipur (Bhagatwatpur, Baghauni, Ladaura, Birauli), Vaisali (Proper Vaishali, Dharhara, Harikapur, Manpura), E. Champaran (Turkauliya, Pipara Kothi, Kalyanpur, Chakiya)	MLB	M-H
6	West Bengal	Burdwan (Kalinagar, Samudragarh), Nadia (Nabadweep, Krishnagar) Birbhum (Shekhampur)	MLB	L-M
			TLB	L
7	Rajasthan	Madar, Fatehnagar, Kharva Chanda, Nai, Malvi, Bhatevar, Dabok, Kaladwas, Debari, Mangalwad, Saropa, Gogunda	DM	L-M
			MLB	L-M
			TLB	L
			BSDM	L
			BLSB	L-M
			CLS	M-H
			BS	T-L
			PFSR	T-H
			Flag smut	M
			C. Rust	T
8	Gujarat	Sonpur, Datta, Pavijetpur, Ambaji, Garbada, Amirgadh, Modasa, Chhotaudaipur, Godhra, Khanpur, Santrampur, Dahod, Khedbrahma, Bhiloda, Virpur, Idar, Palanpur, Lunavada	MLB	L-M
			TLB	L-H
			CLS	M-H
			BLSB	L-H
9	Northern Karnataka	Dharwad, Bilohongal, Nippani, Belagavi, Haveri, Kalaghatagi, Gokak, Bagalkot, Bydagi, Shigavo, Shiggon, Arabhavi,	MLB	L-M
			TLB	H
			CLS	L-M
			C. Rust	H

		Navalgund and Naragund	B S	T-L
			C. Rot	L-M
10	Southern Karnataka	Tumkur, Chitradurga, Davangere, Haveri, Shimoga, Hassan, Mysore, Bangalore rural, Chikkaballapur, Mandya, Chamarajnagra, Kolar	MLB	L-M
			TLB	L-H
			CLS	T-M
			P. Rust	L-H
			SDM	L-H
			Stalk rot	T-M
11	Telangana	All districts	DM	T
			BLSB	T
			Wilt	T
			Ear rots	T
			CLS	T
			Gray leaf spot	T
			Stem borer	T
			Cob borer	T
12	Tamil Nadu	Pudukkotai (Vadakadu and Kothakkotai), Coimbatore (TNAU, Anthiyur, Kinathukadavu, Pongaliyur)	SDM	H
			seedling blight	M
			C. Rot	M

T- Trace **L- Low** **M- Medium** **H- High**



Disease distribution map based on disease survey 2016K

ii. Occurrence of maize cyst nematode in Rajasthan

Occurrence of maize cyst nematode was reported from maize growing areas of Dungarpur, Chittorgarh, Udaipur and Rajsamand districts of southern Rajasthan. Out of 51 samples collected from above districts, 33 samples were found to be infested with maize cyst nematode *i.e.* 64.71 per cent occurrence was estimated in Rajasthan. Besides this, root lesion nematode, *Pratylenchus zeae* was observed in most of the samples in high numbers (150-320 nemas/ 100 cc soil). Therefore, it requires attention.

MPT 21-27. Development of IDM strategy for major diseases of maize

i. Identification of promising components for disease management in maize

Field experiments on integrated disease management were conducted at AICRPM centres during *Kharif* 2016 to identify promising components (Table 50-74). The Promising components identified are mentioned below:

S.No	Disease	Centre	Promising components	Disease control (%)	Yield increase (%)
1	MLB	Karnal	i. 100 ppm SA (SP and foliar spray after 24hrs after inoculation) ii. 150 ppm SA (foliar spray 24hrs before inoculation)	24.6-32.1	20.5-24.5
			i. Azadirachta indica leaves @ 10% *ii. Calotropis* sp. (AK, Madar) @ 10% *iii. Allium sativum* (garlic) bulb @ 10% *iv. Ocimum sanctum* (Tulsi) @ 10% *v.* Cow urine @ 50%	30.0-36.8	31.5-39.3
			i. Aquous extract of *Melia azedarach* leaves @ 10% ii. Two sprays of Dithane M 45 @ 2.5 gm/l	28.8-47.8	33.7-58.0
		Dholi	i. Salicylic acid (SA) @ 150 mg/litre water as foliar spray (before 24 hrs inoculation) ii. Salicylic acid (SA) @ 200 mg/litre water as foliar spray (before 24 hrs inoculation)	33.33-61.11	37.67-40.44
			i. *Azadirachta indica* leaves @ 10% ii. *Allium sativum* (Garlic bulb) @ 10% iii. *Ocimum sanctum* (Tulsi) @ 10% iv. Cow urine @ 10%	23.07-38.54	3.88-17.75
		Delhi	i. *Azadiracta indica* (Neem) leaves @10% ii. *Allium sativum* (garlic) bulb @ 10% iii. *Polyalthia longifolia* (False Ashoka) @10%	17.64-23.53	39.24-45.45
2	TLB	Bajaura	i. 150 ppm SA (Foliar spray 24 hrs before inoculation) ii. 200 ppm SA (Foliar spray 24 hrs before inoculation)	27.2-32.80	19.8-23.0
		Kalyani	i. 150 ppm SA (Foliar spray 24 hrs before inoculation) ii. 200 ppm SA (Foliar spray 24 hrs before inoculation) iii. *Pongamia pinnata* (Kranj) @ 10%	26.76-41.89 53.75-66.63	80.1-85.53 52.02-95.37

			extract iv. *Datura stramonium* (Datura) @ 10% v. *Allium sativum* (garlic) bulb @ 10% vi. Cow urine @ 50%		
		Mandya	i. *Azadirachta indica* leaves @ 10% ii. *Calotropis* sp. (AK, Madar) @ 10% iii. Cow urine @ 50%	36.88-54.43	46.53-60.31
3	BLSB	Bajaura	i. Validamycin @ 0.1% ii. Tebuconazole @ 0.05% iii. Trifloxystrobin 25% + Tebuconazole 50% @ 0.05% iv. Azoxystrobin @ 0.05%	34.4-53.5	34.0-47.8
		Dhaulakuan	i. Hexaconazole @ 0.1% ii. Carbendazim @ 0.1% iii. Validamycin @ 0.1% iv. Azoxystrobin @ 0.05% v. Pencycuron @ 0.1%	40.59-66.61	22.83-61.34
		Delhi	i. Validamycim @ 0.1% ii. Azoxystrobin @ 0.05% iii. Pencycuron @0.1%	26.17-32.11	26.19-47.05
			i. 150 ppm SA (Foliar spray 24 hr. before inoculation) ii. 200 ppm SA Foliar spray 24 hr. before inoculation	13.50-13.74	17.17-22.55
		Karnal	i. 100 ppm SA (SP and foliar spray after 24hrs after inoculation) ii. 150 ppm SA (foliar spray 24hrs before inoculation) iii. 200 ppm SA (foliar spray 24hrs before inoculation)	16.8-24.0	18.2-24.8
		Pantnagar	i. Seed priming (SP) 100ppm (100 mg/liter) SA + spray after 24 hrs of inoculation	7.22	12.65
		Godhra	i. Difenconazole @ 0.1% ii. Trifloxystrobin 25% + Tebuconazole 50% @ 0.05% iii. Pencycuron @ 0.1%	54.17-70.83	23.60-40.39
			i. 50 ppm SA* as seed priming (SP) ii. 100 ppm SA (SP and foliar spray after 24hrs after inoculation) iii. 150 ppm SA (foliar spray 24hrs before inoculation) iv. 200 ppm SA (foliar spray 24hrs before inoculation)	57.05-72.11	12.68-41.84
4	Common rust	Karnal	i. Difenconazole @ 0.1 % ii. Tebuconazole @ 0.05% iii. Propiconazole @ 0.1% iv. Trifloxystrobin 25% + Tebuconazole 50% @ 0.05%	36.49-40.25	41.11-67.78
5	Common rust & TLB	Dharwad	i. Tebuconazole 250 EC ii. Difenconazole 25 EC iii. Propiconazole 25 EC iv. Trifloxystrobin 25% + Tebuconazole 50%	47.62-69.48 & 48.92-60.71	25.26-38.16
6	PFSR	Udaipur	i. TH -3 @ 0.5% as seed treatment, bioagent-fortified FYM (1:50) and spray@ 0.5% ii. Local strains of fungal antagonists @ 0.5% as seed treatment, bioagent-fortified FYM (1:50) and spray @ 0.5% iii. Spraying of muriate of potash @	56.00-65.67	37.50-71.42

			1-2% at 30 days after planting iv. Propiconazole @ 0.1% spray at 40 DAS v. Double dose of muriate of potash at 45 DAS		
7	RDM	Udaipur	i. TV-3 (*Trichoderma viride*) @ 0.5% as seed treatment, bioagent-fortified FYM (1:50) and spray @ 0.5% ii. Fosetyl-al @ 0.2% seed treatment and spray @ 0.2% iii. Metalaxyl+Mancozeb @ 0.25% seed treatment and spray @ 0.25% iv. Metalaxyl @ 0.25% seed treatment and spray @ 0.25%	76.87-80.62	75.36-95.56
			i. Salicylic acid (SA) @ 100 µg/g ii. Salicylic acid (SA) @ 150 µg/g iii. Salicylic acid (SA) @ 200 µg/g iv. Salicylic acid (SA) @ 250 µg/g	63.75-85.00	57.14-87.50
8	SDM	Mandya	*i. Bacillus amyloliquefaciens* @10g/kg as seed treatment, bioagent-fortified FYM (1:50) and spray @ 1.0% *ii.* Azoxystrobin @ 0.2% seed treatment and spray @ 0.15% *iii.* Metalaxyl+Mancozeb @ 0.25% seed treatment and spray @ 0.25% *iv.* Metalaxyl @ 0.25% seed treatment and spray @ 0.25%	67.42-93.15	72.87-84.37
9	MLB & C.ROT	Ludhiana	i. Acibenzolar-S-methyl (ASM)@ 200 mg/litre as seed priming	28.54 & 23.35	33.49
10	BLSB & BSR	Dhaulakuan	i. 200 ppm SA (foliar spray 24hrs before inoculation) & ii. 100 ppm SA (SP and foliar spray after 24hrs after inoculation)	37.94 & 24.66	17.81 & 17.15

ii. Efficacy of leaf stripping on severity of BLSB

Field experiments on disease management through leaf stripping method in maize were conducted at Delhi, Karnal, Ludhiana, Pantnagar and Godhra on different varieties/ inbred lines during *Kharif 2*015 & data revealed that leaf stripping gave 1.67 to 69.81 per cent BLSB control with 1.17 to 39.60 per cent yield increase as compared to check (Table 75-79).

iii. Identification of promising components for management of maize cyst nematode

Following treatments were effective in the management of maize cyst nematode (*Heterodera zeae*) (Table 80).

S. No	**Disease**	**Centre**	**Promising components identified**	**Nematode population reduction (%)**	**Yield increase (%)**
1	Cyst nematode	Udaipur	*Pochonia chlamydosporia* 2 % w/w + Aak leaf 1 q/ha	29-36	32
			Paecilomyces lilacinus 2 % w/w + Lantana leaf 1 q/ha	32-40	40
			Pochonia chlamydosporia 2% w/w + Lantana leaf 1 q/ha	38-46	44

			Trichoderma harzianum 2% w/w + Lantana leaf 1 q/ha	24-34	24
			Trichoderma viride 2% w/w + Neem cake 2 q/ha	47-53	48

iv. Interaction of various soil types with cyst nematode, *H. zeae* infestation on different maize varieties

Results (Table 81) revealed that cyst and final larvae populations were increased in sandy soil (28-57% & 39-43%, respectively) as compared to medium textured soil (check) with 13-21% grain yield reduction in different maize cultivars. Highest reduction in grain yield was observed in Pratap Makka-3 (20.90%) followed by Pratap Makka-9 (16.24%) and Pratap Hybrid Maize-3 (13.31%).

B. *Rabi* 2015-16

A total of 127 genotypes were evaluated (Table 1 to 5) during *Rabi* 2015-16 against major diseases of maize under artificially created epiphytotics at various hot spot locations i.e. sorghum downy mildew (SDM) at Mandya; charcoal rot (C. Rot) at Dharwad, Ludhiana and Hyderabad;Turcicum leaf blight (TLB) at Dholi and Mandya. Promising hybrids are mentioned below:

MPT 1. Evaluation of maize genotypes in NIVT Late maturity for various maize diseases during *Rabi* 2015-16

A total of 35 genotypes out of 41 tested were exhibited resistant/ moderately resistant reaction to diseases in different zones (Table 1). Promising ones are below:

S.NO.	Genotype	Resistant		Moderately Resistant		
		NEPZ	PZ	NWPZ	NEPZ	PZ
1	KMH-2852	-	-	-	TLB	TLB, C.ROT, SDM
2	MFH 14-9	TLB	-	-	-	C.ROT
3	DKC9170(IQ8579)	-	-	-	TLB	TLB, C.ROT
4	AMH-3436	-	-	-	TLB	C.ROT
5	CCH 9241	-	-	-	TLB	TLB, C.ROT
6	CP.808	-	C.ROT	C.ROT	-	SDM
7	PM15205L	-	-	-	TLB	TLB
8	GK 3196	-	-	C.ROT	-	C.ROT
9	Proline 999	-	-	C.ROT	TLB	C.ROT
10	ADV 0990293	-	-	C.ROT	-	TLB, C.ROT, SDM
11	PM15206L	-	-	C.ROT	TLB	TLB, C.ROT
12	DKC9175 (IP8514)	-		C.ROT	-	C.ROT
13	PM15203L	TLB	-	C.ROT	-	TLB, C.ROT
14	MM2222	-	-	C.ROT	-	TLB, C.ROT
15	KMH-3981	-	-	C.ROT	TLB	TLB, C.ROT
16	MM2323	TLB	-	-	-	-
17	DKC9177 (IP8572)	-	-	C.ROT	-	TLB, C.ROT
18	IMH 1544	-	-	C.ROT	-	TLB
19	GK 3197	-	-	C.ROT	TLB	TLB, C.ROT, SDM
20	PM15201L	-	C.ROT	-	-	TLB, SDM
21	PM15204L	-	-	C.ROT	-	TLB, C.ROT
22	HT 15046	-	-	C.ROT	-	TLB
23	115-08-01	-	-	-	TLB	C.ROT
24	BH 412065	-	-	C.ROT	-	TLB, C.ROT, SDM
25	HKH 425	-	-	C.ROT	TLB	TLB, C.ROT

26	MFH 14-11		-	-	-	TLB, C.ROT
27	ADV 7037	-	-	C.ROT	TLB	C.ROT, SDM
28	DKC9176 (IQ8611)	-	C.ROT	C.ROT	TLB	TLB
29	DAS-MH-902	-	-	C.ROT	TLB	TLB
30	RCRMH 2 (HTMR2)	TLB	-	C.ROT	-	TLB, C.ROT
31	POLO Gold	-	-	-	TLB	TLB, C.ROT
32	Seedtech 2324 (C)		-	-	-	TLB, C.ROT
33	Buland(C)	-	-	-	TLB	TLB, C.ROT
34	Bio 9681 (C)	-	-	-	TLB	TLB, C.ROT
35	P3522 (C)	-	C.ROT	C.ROT	TLB	TLB

NWPZ: North Western Plain Zone; **NEPZ:** North East Plain Zone; **PZ:** Peninsular Zone

MPT 2. Evaluation of maize genotypes in NIVT Medium maturity for various maize diseases during *Rabi* 2015-16

A total of 28 genotypes out of 30 tested were exhibited resistant/ moderately resistant reaction to diseases in different zones (Table 2). Promising ones are given below:

		Resistant			Moderately Resistant		
S.NO.	Genotype	NWPZ	NEPZ	PZ	NWPZ	NEPZ	PZ
1	WH 1019	-	-	-	-	-	C.ROT, SDM
2	WH 2127	-	-	-	C.ROT	-	TLB, C.ROT, SDM
3	DKC8171 (IP8204)	-	-	-	C.ROT	TLB	C.ROT
4	KNMH-4512	-	-	-	C.ROT	-	C.ROT
5	KDMH 03	-	-	-	C.ROT	TLB	C.ROT, SDM
6	MMH 14-5	-	-	-	C.ROT	TLB	TLB, SDM
7	KNMH-4511	-	TLB	-	-	-	C.ROT, SDM
8	HKH 350	-	TLB	-	C.ROT	-	TLB, C.ROT
9	KNMH-4510	-	TLB	-	C.ROT	-	C.ROT
10	K-88	-	-	-	C.ROT	-	C.ROT, SDM
11	IMH 1547	-	-	-	C.ROT	-	C.ROT
12	IMH 1545	-	-	-	-	TLB	C.ROT
13	VEH 15-1	-	TLB	-	C.ROT	-	TLB, C.ROT, SDM
14	KH-2001 Gold	-	-	-	C.ROT	-	C.ROT, SDM
15	WH 2140	-	-	-	C.ROT	-	C.ROT, SDM
16	KNMH-4503	C.ROT	-	-	-	TLB	C.ROT, SDM
17	BLH 109	-	-	C.ROT	C.ROT	-	SDM
18	HT 15066	-	-	-	C.ROT	-	C.ROT, SDM
19	DKC8172 (IQ8318)	-	-	-	-	-	TLB, C.ROT
20	KNMH-4509	-	-	-	C.ROT	TLB	C.ROT, SDM
21	BLH 110	-	-	-	C.ROT	-	C.ROT, SDM
22	MMH 14-7	-	-	-	C.ROT	-	C.ROT, SDM
23	WH 1010	-	TLB	C.ROT	C.ROT	-	-
24	IMH 1546	-	TLB	-	C.ROT	-	C.ROT

NWPZ: North Western Plain Zone; **NEPZ:** North East Plain Zone; **PZ:** Peninsular Zone

MPT 3. Evaluation of maize genotypes in AVT-I and AVT-II Late maturity for various maize diseases during *Rabi* 2015-16

A total of 29 genotypes out of 35 tested were exhibited resistant/ moderately resistant reaction to diseases in different zones (Table 3). Promising ones are given below:

		Resistant			Moderately Resistant		
S.NO.	Genotype	NWPZ	NEPZ	PZ	NWPZ	NEPZ	PZ
AVT-II-LATE							
1	HTMH 5202	-	-	-	C.ROT	TLB	C.ROT
2	Rasi-950	-	-	C.ROT	C.ROT	-	TLB, SDM
3	GK 3155	-	-	-	C.ROT	TLB	C.ROT
4	KMH-1411	-	-	-	C.ROT	-	TLB, C.ROT
5	Rasi-393	-	-	-	C.ROT	-	C.ROT
6	KH-2192	-	-	-	C.ROT	-	C.ROT
7	KH-3021	-	-	-	C.ROT	TLB	C.ROT, SDM
8	CP.838	-	-	-	C.ROT	-	C.ROT
9	CP.333	-	-	-	C.ROT	TLB	C.ROT
10	GK 3118	-	-	-	C.ROT	-	C.ROT, SDM
11	X35F880	-	-	-	C.ROT	-	C.ROT
12	DKC9161 (IM8222)	-	-	-	C.ROT	-	C.ROT, SDM
13	CP.999	C.ROT	-	-	-	TLB	C.ROT
14	HTMH 5108	-	-	-	C.ROT	-	C.ROT, SDM
15	CP.111	-	-	-	C.ROT	TLB	C.ROT
AVT-I-LATE							
16	DKC9160 (IP8510)	-	-	C.ROT	C.ROT	TLB	-
17	PM14207L	-	-	-	C.ROT	-	C.ROT, SDM
18	SYN426702	-	-	-	C.ROT	-	TLB, C.ROT, SDM
19	PM14208L	-	-	-	C.ROT	TLB	C.ROT
20	GK 3153	-	-	-	-	TLB	C.ROT, SDM
21	HT 142107	-	TLB	-	-	-	C.ROT
22	PM14205L	-	-	-	C.ROT	-	C.ROT
23	DKC9165 (IM8119)	-	-	-	C.ROT	TLB	C.ROT
24	GK 3124	-	-	-	C.ROT	TLB	C.ROT
25	PM14203L	-	TLB	-	C.ROT	-	TLB, C.ROT
26	CP.444	C.ROT	-	-	-	-	TLB, C.ROT
27	Rasi-394	C.ROT	-	C.ROT	-	-	TLB

NWPZ: North Western Plain Zone; **NEPZ:** North East Plain Zone; **PZ:** Peninsular Zone

MPT 4. Evaluation of maize genotypes in AVT-II & AVT-I Medium maturity and QPM-I for various maize diseases during *Rabi* 2015-16

A total of 9 genotypes out of 21 tested were exhibited resistant/ moderately resistant reaction to diseases in different zones (Table 4). Promising ones are given below:

		Resistant		Moderately Resistant		
Sl.No	Genotype	NEPZ	PZ	NWPZ	NEPZ	PZ
AVT-II-MEDIUM						
1	BL 147	-	C.ROT, SDM	C.ROT	-	-
2	IM8303	-	-	C.ROT	-	C.ROT
3	BL 900	-	-	-	-	C.ROT, SDM
4	BL 798	-	-	C.ROT	TLB	C.ROT
5	DMRH 1301	TLB	-	C.ROT	-	TLB, C.ROT, SDM
6	KH-517	-	-	C.ROT	-	C.ROT
AVT-I-MEDIUM						
7	HT 1412081	-	-	C.ROT	TLB	C.ROT, SDM
8	BLH 101	-	-	C.ROT	-	C.ROT
9	DMRH 1419	-	-	C.ROT	TLB	C.ROT, SDM
10	DKC9166 (IM8013)	-	-	-	TLB	C.ROT, SDM
11	BH 412044	-	-	C.ROT	-	TLB, C.ROT
12	CP.222	-	-	C.ROT	TLB	C.ROT

13	BH 412066	-	-	C.ROT	-	C.ROT
14	PM142096M	-	-	-	TLB	TLB, C.ROT
QPM-I						
17	MMHQPM 6-12-13	-	-	C.ROT	-	C.ROT
18	VEHQ 15-1	-	-	C.ROT	-	TLB, C.ROT

NWPZ: North Western Plain Zone; **NEPZ:** North East Plain Zone; **PZ:** Peninsular Zone

MPT 5. Survey & surveillance of maize diseases in northern Karnataka at Dharwad

Incidence of Turcicum leaf blight, Fusarium stalk rot and Common rust were low at Dharwad and Haveri. Charcoal stalk rot was moderate at Dharwad, Haveri and Kalaghatagi except Gokak and Bagalkot where it was observes from moderate to severe (Table5).

MPT 6. Management of post flowering stalk rot at Dharwad

Pseudomonas fluorescens @ 0.5% as seed treatment and incubated FYM (1:50) recorded significantly lower disease severity of PFSR and higher yield followed by local strains of *Trichoderma harzianum* Dharwad 1@ 0.5% as seed treatment and incubated FYM (1:50) & spray @ 0.5% (Table 6).

Table 1. Screening of NIVT (late maturity) maize hybrids (Trial 61A)

		Maydis leaf blight score (1-9)								
		NHZ		NWPZ					NEPZ	
S.No	Genotype	DHAU	Reaction	DELH	KARN	LUDH	Av. Score	Reaction	DHOL	Reaction
1	BLH 115	2.8	R	1.0	6.5	4.5	4.0	MR	7.0	MS
2	SYN616734	1.5	R	1.0	4.0	3.5	2.8	R	6.0	MS
3	DKC 9178(IQ8623)	2.5	R	1.0	3.5	3.0	2.5	R	4.0	MR
4	HT 16607	1.5	R	3.0	4.0	3.0	3.3	MR	3.0	R
5	KH-16-149	2.5	R	1.0	5.0	4.5	3.5	MR	4.0	MR
6	OMH 14-55 (CAH1537)	2.5	R	1.0	5.5	3.0	3.2	MR	4.0	MR
7	BH 414012	2.8	R	1.0	4.0	4.0	3.0	R	6.0	MS
8	JKMH 4152	2.5	R	2.0	4.5	2.5	3.0	R	4.0	MR
9	CCH 9241	1.5	R	1.0	4.0	3.0	2.7	R	6.0	MS
10	HM16305	1.5	R	1.0	5.0	3.0	3.0	R	3.0	R
11	OMH 1462 (CAH 142)	2.5	R	1.0	6.5	3.0	3.5	MR	2.5	R
12	CMH11-591	1.5	R	1.0	3.0	3.0	2.3	R	4.0	MR
13	MM9333	2.5	R	2.0	5.0	4.0	3.7	MR	3.5	MR
14	GH-1436	2.5	R	1.0	4.5	3.5	3.0	R	2.5	R
15	MM 2030	1.5	R	1.0	5.5	3.0	3.2	MR	6.0	MS
16	KMH-5022	2.5	R	1.0	5.0	3.0	3.0	R	4.0	MR
17	PM16104L	1.5	R	1.0	4.5	3.5	3.0	R	2.5	R
18	SYN617328	2.5	R	3.0	5.0	3.5	3.8	MR	6.0	MS
19	ADV 9233	2.5	R	1.0	6.5	4.0	3.8	MR	6.0	MS
20	BLH 114	2.5	R	3.0	4.5	3.0	3.5	MR	4.0	MR
21	Star-9	2.5	R	2.0	4.0	3.5	3.2	MR	6.0	MS
22	IMHBG-2016-3	1.5	R	1.0	3.0	2.5	2.2	R	4.0	MR
23	PM16102L	2.5	R	3.0	5.5	4.0	4.2	MR	2.5	R
24	X-7	1.5	R	1.0	4.5	3.0	2.8	R	6.0	MS
25	C.P 888	1.5	R	2.0	4.0	2.5	2.8	R	6.0	MS

Contd.

Table -1 (61 A)

Maydis leaf blight score (1-9)										
		NHZ		NWPZ					NEPZ	
S.No	Genotype	DHAU	Reaction	DELH	KARN	LUDH	Av. Score	Reaction	DHOL	Reaction
26	X-6	1.5	R	2.0	4.0	4.0	3.3	MR	4.0	MR
27	VaMH 13024	1.5	R	1.0	5.0	2.5	2.8	R	3.0	R
28	PM16103L	1.5	R	2.0	5.0	2.5	3.2	MR	3.0	R
29	PM16101L	2.5	R	NG	7.0	4.5	5.8	MS	6.0	MS
30	GH-1427	3.5	MR	2.0	5.5	4.0	3.8	MR	5.0	MR
31	CMH11-586	1.5	R	2.0	3.5	2.5	2.7	R	6.5	MS
32	CCH 167	1.5	R	1.0	3.5	4.0	2.8	R	6.0	MS
33	GK3202	1.5	R	1.0	3.5	2.5	2.3	R	2.5	R
34	KH-POLO Gold	3.5	MR	2.0	6.0	4.0	4.0	MR	4.0	MR
35	MM 2626	1.5	R	1.0	5.0	3.5	3.2	MR	3.5	MR
36	VNR 33051	1.5	R	1.0	3.5	3.5	2.7	R	2.5	R
37	DH-300	1.5	R	3.0	4.0	3.0	3.3	MR	4.0	MR
38	OMH 14-16 (CAH1424)	3.8	MR	2.0	4.0	3.0	3.0	R	2.5	R
39	DH-301	4.8	MR	1.0	3.0	3.0	2.3	R	6.0	MS
40	VNR 3Y069	1.5	R	1.0	4.5	3.0	2.8	R	6.5	MS
41	OMH 14-27 (CAH1511)	1.5	R	1.0	4.5	3.0	2.8	R	3.0	R
42	KMH-24752	1.5	R	2.0	4.5	3.0	3.2	MR	4.0	MR
43	JH 13278	1.5	R	1.0	4.0	2.5	2.5	R	6.5	MS
44	CMH11-583	2.5	R	1.0	5.0	3.5	3.2	MR	6.5	MS
45	GK3204	1.5	R	1.0	4.0	3.0	2.7	R	3.0	R
46	TMMH 838	1.5	R	1.0	4.5	4.0	3.2	MR	4.0	MR
47	BIO 9682 (C)	1.5	R	1.0	3.5	2.5	2.3	R	6.5	MS
48	CMH 08-287 (C)	1.5	R	2.0	5.5	2.5	3.3	MR	3.0	R
49	CMH 08-282 (C)	1.5	R	1.0	4.0	2.5	2.5	R	5.0	MR
50	Sus. Check	3.5	MR	7.0	8.0	8.0	7.7	S	8.0	S
51	Local Check	3.5	MR	-	-	6.5	6.5	MS	-	-

Contd.

Susceptible Check:- MLB:- DKC 7074 **(DHAULAKUAN);** CM 600 **(DELHI, KARNAL, LUDHIANA);** CML186 **(DHOLI)**

Table 2. Screening of NIVT (late maturity) maize hybrids (Trial 61 B)

Maydis leaf blight score (1-9)										
		NHZ		NWPZ					NEPZ	
S.No	Genotype	DHAU	Reaction	DELH	KARN	LUDH	Av. Score	Reaction	DHOL	Reaction
1	RMH 1601	1.0	R	2.0	6.0	3.5	3.8	MR	6.0	MS
2	MH 25	1.0	R	1.0	3.0	3.0	2.3	R	4.0	MR
3	MAH-14-5	1.0	R	1.0	6.0	2.0	3.0	R	3.0	R
4	WH-1095	2.0	R	1.0	4.5	2.5	2.7	R	3.0	R
5	MH 26	1.5	R	2.0	4.5	2.0	2.8	R	6.5	MS
6	JH 15130	1.0	R	2.0	4.5	2.5	3.0	R	4.0	MR
7	IMH 1601	3.0	R	1.0	4.5	3.5	3.0	R	6.0	MS
8	DAS-MH-113	1.0	R	1.0	4.0	2.0	2.3	R	4.0	MR
9	IMH 1608	3.5	MR	1.0	6.0	4.0	3.7	MR	5.0	MR
10	DAS-MH-112	1.0	R	1.0	5.0	3.0	3.0	R	6.0	MS
11	SVMH-55	1.0	R	1.0	3.0	3.0	2.3	R	4.0	MR
12	QMH-1472	1.5	R	1.0	5.5	4.5	3.7	MR	6.5	MS
13	AH-7188	2.0	R	1.0	7.0	2.0	3.3	MR	6.5	MS
14	JH 13094	2.5	R	1.0	4.5	3.0	2.8	R	3.0	R
15	IMH 1607	3.0	R	1.0	5.0	3.5	3.2	MR	5.0	MR
16	IMH 1526	1.0	R	1.0	4.5	2.5	2.7	R	3.0	R
17	IMH 1610	2.0	R	1.0	6.0	3.5	3.5	MR	6.0	MS
18	BIO 509	1.0	R	1.0	5.5	2.0	2.8	R	6.0	MS
19	JH 13023	0.5	R	1.0	5.0	2.5	2.8	R	4.0	MR
20	QMH-1470	3.0	R	1.0	6.0	3.5	3.5	MR	4.0	MR
21	JH 15106	1.0	R	2.0	4.0	3.5	3.2	MR	5.0	MR
22	JH 15135	1.5	R	2.0	6.0	3.5	3.8	MR	3.0	R
23	NS 8181	3.0	R	2.0	6.5	4.5	4.3	MR	6.0	MS
24	IMH 1528	2.5	R	1.0	4.5	3.0	2.8	R	6.0	MS
25	JH 13337	2.0	R	1.0	5.0	2.5	2.8	R	3.0	R

Contd.

Table -2 (61 B)

Maydis leaf blight score (1-9)										
		NHZ		NWPZ					NEPZ	
S.No	Genotype	DHAU	Reaction	DELH	KARN	LUDH	Av. Score	Reaction	DHOL	Reaction
26	JH 15011	1.5	R	1.0	5.5	4.5	3.7	MR	6.0	MS
27	AH-7210	2.5	R	2.0	5.0	3.0	3.3	MR	6.0	MS
28	AH-1601	2.5	R	2.0	5.0	3.0	3.3	MR	6.0	MS
29	IMH 1527	1.0	R	1.0	5.0	4.5	3.5	MR	4.0	MR
30	MMH 1302	2.0	R	1.0	6.0	2.5	3.2	MR	6.5	MS
31	RMH 815	1.5	R	1.0	3.5	3.5	2.7	R	3.0	R
32	NRI MH4	2.0	R	2.0	5.5	2.5	3.3	MR	6.0	MS
33	QMH-1435	2.0	R	1.0	7.0	5.0	4.3	MR	8.0	S
34	QMH-1478	1.5	R	1.0	7.0	3.0	3.7	MR	3.0	R
35	AH-1602	2.0	R	3.0	5.5	2.5	3.7	MR	5.0	MR
36	JH 15004	1.0	R	1.0	4.5	3.5	3.0	R	3.0	R
37	AH-7005	1.5	R	1.0	6.0	2.5	3.2	MR	6.5	MS
38	JH 15080	1.0	R	1.0	4.5	3.0	2.8	R	4.0	MR
39	BIO 716	4.0	MR	2.0	5.5	5.5	4.3	MR	7.0	MS
40	CAH-1533	2.0	R	1.0	5.0	2.5	2.8	R	4.0	MR
41	BIO 274	1.5	R	1.0	6.0	2.5	3.2	MR	3.0	R
42	IMH 1602	1.5	R	1.0	3.5	2.5	2.3	R	6.0	MS
43	JH 13227	1.0	R	2.0	5.0	3.5	3.5	MR	4.0	MR
44	IMH 1533	2.0	R	1.0	5.0	2.5	2.8	R	4.5	MR
45	IMH 1547	2.5	R	2.0	5.5	4.5	4.0	MR	6.5	MS
46	NS 8001	3.5	MR	1.0	5.5	5.5	4.0	MR	4.0	MR
47	BIO 9682 (C)	1.5	R	1.0	4.5	2.5	2.7	R	3.0	R
48	CMH 08-287 (C)	1.0	R	1.0	4.5	3.0	2.8	R	6.0	MS
49	CMH 08-282 (C)	1.0	R	1.0	4.5	2.0	2.5	R	3.0	R
50	Sus. Check	3.5	MR	7.0	7.5	8.0	7.5	S	8.0	S
51	Local Check	3.5	MR	-	-	6.8	6.8	MS	-	-

Contd.

Susceptible Check:- MLB:- DKC 7074 **(DHAULAKUAN);** CM 600 **(DELHI, KARNAL, LUDHIANA);** CML186 **(DHOLI)**

Table -1 (61 A)

Turcium leaf blight score (1-9)									
		NHZ				PZ			
S.No	Genotype	ALMO	BAJA	Av. Score	Reaction	MAND	DHAR	Av. Score	Reaction
1	BLH 115	6.0	3.0	4.5	MR	5.0	8.5	6.8	MS
2	SYN616734	1.0	3.0	2.0	R	1.5	3.8	2.6	R
3	DKC 9178(IQ8623)	1.0	2.0	1.5	R	2.5	4.0	3.3	MR
4	HT 16607	1.0	2.0	1.5	R	4.0	8.0	6.0	MS
5	KH-16-149	5.0	2.0	3.5	MR	5.0	6.0	5.5	MS
6	OMH 14-55 (CAH1537)	1.0	2.5	1.8	R	6.0	7.8	6.9	MS
7	BH 414012	5.5	2.0	3.8	MR	6.0	6.5	6.3	MS
8	JKMH 4152	5.5	2.0	3.8	MR	4.0	7.3	5.6	MS
9	CCH 9241	6.0	2.5	4.3	MR	6.0	3.0	4.5	MR
10	HM16305	1.0	2.0	1.5	R	2.0	4.8	3.4	MR
11	OMH 1462 (CAH 142)	5.0	3.5	4.3	MR	1.5	4.0	2.8	R
12	CMH11-591	5.5	3.0	4.3	MR	2.5	6.5	4.5	MR
13	MM9333	5.0	2.5	3.8	MR	4.0	7.8	5.9	MS
14	GH-1436	6.5	2.0	4.3	MR	4.0	9.0	6.5	MS
15	MM 2030	5.5	2.5	4.0	MR	5.0	8.5	6.8	MS
16	KMH-5022	6.0	2.0	4.0	MR	4.5	5.0	4.8	MR
17	PM16104L	5.0	2.0	3.5	MR	7.5	9.0	8.3	S
18	SYN617328	1.0	2.0	1.5	R	4.0	4.0	4.0	MR
19	ADV 9233	3.0	2.0	2.5	R	5.0	7.3	6.1	MS
20	BLH 114	1.0	2.0	1.5	R	4.5	8.0	6.3	MS
21	Star-9	5.0	2.0	3.5	MR	5.0	7.0	6.0	MS
22	IMHBG-2016-3	3.0	2.5	2.8	R	1.0	1.5	1.3	R
23	PM16102L	1.0	3.0	2.0	R	1.5	3.0	2.3	R
24	X-7	5.0	2.0	3.5	MR	1.5	5.5	3.5	MR
25	C.P 888	5.0	2.0	3.5	MR	5.5	5.0	5.3	MS

Contd.

Table -1 (61 A)

Turcium leaf blight score (1-9)									
		NHZ				PZ			
S.No	Genotype	ALMO	BAJA	Av. Score	Reaction	MAND	DHAR	Av. Score	Reaction
26	X-6	7.0	3.0	5.0	MR	6.5	9.0	7.8	S
27	VaMH 13024	3.0	2.0	2.5	R	1.5	1.5	1.5	R
28	PM16103L	5.0	2.0	3.5	MR	7.0	9.0	8.0	S
29	PM16101L	1.0	2.0	1.5	R	4.0	7.0	5.5	MS
30	GH-1427	1.0	2.5	1.8	R	4.0	7.5	5.8	MS
31	CMH11-586	1.0	3.0	2.0	R	2.0	1.5	1.8	R
32	CCH 167	6.0	3.5	4.8	MR	5.0	6.0	5.5	MS
33	GK3202	1.0	2.5	1.8	R	1.5	3.0	2.3	R
34	KH-POLO Gold	5.0	2.5	3.8	MR	4.0	6.5	5.3	MS
35	MM 2626	1.0	2.5	1.8	R	4.0	7.5	5.8	MS
36	VNR 33051	1.0	3.0	2.0	R	1.0	4.0	2.5	R
37	DH-300	5.0	2.5	3.8	MR	5.5	8.5	7.0	MS
38	OMH 14-16 (CAH1424)	5.0	2.5	3.8	MR	3.0	7.3	5.1	MS
39	DH-301	5.0	2.5	3.8	MR	5.0	9.0	7.0	MS
40	VNR 3Y069	5.0	2.5	3.8	MR	4.0	7.0	5.5	MS
41	OMH 14-27 (CAH1511)	1.0	2.0	1.5	R	2.0	4.0	3.0	R
42	KMH-24752	1.0	2.0	1.5	R	1.0	1.5	1.3	R
43	JH 13278	5.0	3.0	4.0	MR	7.0	9.0	8.0	S
44	CMH11-583	5.0	2.0	3.5	MR	1.0	3.5	2.3	R
45	GK3204	1.0	2.0	1.5	R	2.0	2.0	2.0	R
46	TMMH 838	3.0	2.0	2.5	R	3.0	5.3	4.1	MR
47	BIO 9682 (C)	5.0	2.5	3.8	MR	7.0	9.0	8.0	S
48	CMH 08-287 (C)	1.0	2.0	1.5	R	3.0	4.0	3.5	MR
49	CMH 08-282 (C)	3.0	2.5	2.8	R	1.5	1.5	1.5	R
50	Res. Check	1.0	-	1.0	R	2.5	4.0	3.3	MR
51	Sus. Check	8.0	7.5	7.8	S	8.5	9.0	8.8	S
52	Local Check	-	7.0	7.0	MS	-	-	-	-

Resistant Check:- TLB:- V 341 **(ALMORA);** NAH 2049 **(MANDYA);** CI 4 **(DHARWAD)**

Contd.

Susceptible Check:- TLB:- Dhari local **(ALMORA);** CM 202 **(BAJAURA, MANDYA, DHARWAD)**

Table -2 (61 B)

Turcium leaf blight score (1-9)									
		NHZ				PZ			
S.No	Genotype	ALMO	BAJA	Av. Score	Reaction	MAND	DHAR	Av. Score	Reaction
1	RMH 1601	5.0	3.0	4.0	MR	2.5	3.0	2.8	R
2	MH 25	5.0	2.0	3.5	MR	4.0	8.5	6.3	MS
3	MAH-14-5	1.0	2.5	1.8	R	3.0	3.5	3.3	MR
4	WH-1095	1.0	3.0	2.0	R	5.0	5.0	5.0	MR
5	MH 26	1.0	2.0	1.5	R	4.0	8.0	6.0	MS
6	JH 15130	1.0	2.0	1.5	R	4.0	5.3	4.6	MR
7	IMH 1601	1.0	3.5	2.3	R	2.0	4.0	3.0	R
8	DAS-MH-113	3.0	3.0	3.0	R	5.0	7.5	6.3	MS
9	IMH 1608	6.5	3.0	4.8	MR	5.5	8.0	6.8	MS
10	DAS-MH-112	3.0	3.5	3.3	MR	1.5	3.5	2.5	R
11	SVMH-55	1.0	2.0	1.5	R	3.0	5.0	4.0	MR
12	QMH-1472	6.0	2.0	4.0	MR	6.5	8.0	7.3	S
13	AH-7188	5.5	4.5	5.0	MR	5.0	3.5	4.3	MR
14	JH 13094	5.0	3.0	4.0	MR	3.5	7.8	5.6	MS
15	IMH 1607	5.0	4.0	4.5	MR	4.0	5.0	4.5	MR
16	IMH 1526	3.0	2.5	2.8	R	5.5	4.0	4.8	MR
17	IMH 1610	1.0	3.5	2.3	R	2.5	4.0	3.3	MR
18	BIO 509	3.0	3.5	3.3	MR	3.5	7.0	5.3	MS
19	JH 13023	5.0	2.0	3.5	MR	3.0	4.0	3.5	MR
20	QMH-1470	5.0	3.5	4.3	MR	4.5	3.5	4.0	MR
21	JH 15106	5.0	3.5	4.3	MR	5.5	9.0	7.3	S
22	JH 15135	1.0	3.0	2.0	R	4.0	6.0	5.0	MR
23	NS 8181	5.0	3.0	4.0	MR	1.5	6.0	3.8	MR
24	IMH 1528	1.0	2.5	1.8	R	1.5	4.5	3.0	R
25	JH 13337	1.0	2.5	1.8	R	1.5	2.0	1.8	R

Contd.

Table -2 (61 B)

Turcium leaf blight score (1-9)									
		NHZ				PZ			
S.No	Genotype	ALMO	BAJA	Av. Score	Reaction	MAND	DHAR	Av. Score	Reaction
26	JH 15011	5.5	2.0	3.8	MR	5.5	7.8	6.6	MS
27	AH-7210	5.5	4.0	4.8	MR	5.5	7.8	6.6	MS
28	AH-1601	5.0	3.5	4.3	MR	5.0	4.0	4.5	MR
29	IMH 1527	1.0	2.0	1.5	R	2.5	8.0	5.3	MS
30	MMH 1302	5.0	3.5	4.3	MR	5.5	8.5	7.0	MS
31	RMH 815	1.0	2.5	1.8	R	1.5	4.8	3.1	MR
32	NRI MH4	5.0	2.5	3.8	MR	5.0	7.0	6.0	MS
33	QMH-1435	5.0	3.5	4.3	MR	4.5	4.5	4.5	MR
34	QMH-1478	1.0	2.5	1.8	R	3.0	4.0	3.5	MR
35	AH-1602	1.0	3.0	2.0	R	1.5	2.5	2.0	R
36	JH 15004	5.0	2.0	3.5	MR	2.0	3.5	2.8	R
37	AH-7005	5.0	2.0	3.5	MR	6.5	8.0	7.3	S
38	JH 15080	1.0	2.0	1.5	R	1.5	2.0	1.8	R
39	BIO 716	5.0	2.5	3.8	MR	4.5	4.0	4.3	MR
40	CAH-1533	6.0	2.5	4.3	MR	4.0	6.0	5.0	MR
41	BIO 274	1.0	3.5	2.3	R	3.5	6.0	4.8	MR
42	IMH 1602	1.0	3.5	2.3	R	3.0	3.5	3.3	MR
43	JH 13227	1.0	3.5	2.3	R	2.0	6.5	4.3	MR
44	IMH 1533	1.0	2.5	1.8	R	5.0	8.0	6.5	MS
45	IMH 1547	1.0	3.0	2.0	R	3.0	3.5	3.3	MR
46	NS 8001	1.0	2.0	1.5	R	4.5	5.0	4.8	MR
47	BIO 9682 (C)	5.0	3.5	4.3	MR	4.5	9.0	6.8	MS
48	CMH 08-287 (C)	1.0	4.0	2.5	R	1.5	3.5	2.5	R
49	CMH 08-282 (C)	1.0	2.5	1.8	R	1.5	1.5	1.5	R
50	Res. Check	1.5	8.0	4.8	MR	3.0	4.0	3.5	MR
51	Sus. Check	7.5	7.5	7.5	S	7.5	9.0	8.3	S

Contd.

Resistant Check:- TLB:- V 341 **(ALMORA);** NAH 2049 **(MANDYA);** CI 4 **(DHARWAD)**
Susceptible Check:- TLB:- Dhari local **(ALMORA);** CM 202 **(BAJAURA, MANDYA, DHARWAD)**

Table -1 (61 A)

Banded leaf and sheath blight score (1-9)								
		NWPZ					NHZ	
S.No	Genotype	PANT	KARN	DELH	Av. Score	Reaction	DHAU*	Reaction
1	BLH 115	8.0	7.5	7.0	7.5	S	3.0	R
2	SYN616734	8.0	5.0	6.0	6.3	MS	4.5	MR
3	DKC 9178(IQ8623)	7.5	3.5	2.0	4.3	MR	4.0	MR
4	HT 16607	8.5	6.5	3.0	6.0	MS	3.0	R
5	KH-16-149	8.5	7.0	4.0	6.5	MS	3.5	MR
6	OMH 14-55 (CAH1537)	8.5	5.5	5.0	6.3	MS	2.5	R
7	BH 414012	8.0	7.0	4.0	6.3	MS	3.0	R
8	JKMH 4152	7.5	4.5	4.0	5.3	MS	3.0	R
9	CCH 9241	7.5	8.0	2.0	5.8	MS	3.5	MR
10	HM16305	7.8	5.5	5.0	6.1	MS	4.5	MR
11	OMH 1462 (CAH 142)	7.3	8.5	6.0	7.3	S	3.0	R
12	CMH11-591	7.8	4.5	4.0	5.4	MS	2.5	R
13	MM9333	8.5	6.5	5.0	6.7	MS	3.0	R
14	GH-1436	9.0	8.0	4.0	7.0	MS	3.0	R
15	MM 2030	9.0	3.0	3.0	5.0	MR	3.0	R
16	KMH-5022	8.8	7.5	NG	8.1	S	4.5	MR
17	PM16104L	8.8	5.5	5.0	6.4	MS	5.0	MR
18	SYN617328	8.3	7.5	5.0	6.9	MS	3.5	MR
19	ADV 9233	8.5	5.5	7.0	7.0	MS	5.0	MR
20	BLH 114	8.0	3.5	5.0	5.5	MS	5.0	MR
21	Star-9	9.0	6.0	7.0	7.3	S	3.5	MR
22	IMHBG-2016-3	8.5	5.5	5.0	6.3	MS	2.5	R
23	PM16102L	7.8	6.0	5.0	6.3	MS	3.0	R
24	X-7	7.8	8.5	NG	8.1	S	4.0	MR
25	C.P 888	8.5	6.0	6.0	6.8	MS	5.0	MR

Contd.

Table -1 (61 A)

Banded leaf and sheath blight score (1-9)								
		NWPZ					NHZ	
S.No	Genotype	PANT	KARN	DELH	Av. Score	Reaction	DHAU*	Reaction
26	X-6	9.0	6.5	NG	7.8	S	3.5	MR
27	VaMH 13024	8.8	7.0	3.0	6.3	MS	2.5	R
28	PM16103L	9.0	4.5	6.0	6.5	MS	3.5	MR
29	PM16101L	9.0	6.5	NG	7.8	S	3.0	R
30	GH-1427	8.0	8.0	5.0	7.0	MS	3.5	MR
31	CMH11-586	7.8	7.5	4.0	6.4	MS	3.5	MR
32	CCH 167	7.5	7.5	NG	7.5	S	3.5	MR
33	GK3202	8.0	6.5	6.0	6.8	MS	3.0	R
34	KH-POLO Gold	9.0	5.0	4.0	6.0	MS	3.5	MR
35	MM 2626	6.0	4.5	NG	5.3	MS	3.5	MR
36	VNR 33051	7.0	4.5	1.0	4.2	MR	3.0	R
37	DH-300	9.0	4.5	7.0	6.8	MS	3.5	MR
38	OMH 14-16 (CAH1424)	8.5	5.5	4.0	6.0	MS	3.0	R
39	DH-301	8.0	6.0	6.0	6.7	MS	1.5	R
40	VNR 3Y069	6.5	4.5	5.0	5.3	MS	2.0	R
41	OMH 14-27 (CAH1511)	6.0	7.0	6.0	6.3	MS	3.5	MR
42	KMH-24752	8.0	3.0	5.0	5.3	MS	3.0	R
43	JH 13278	8.8	4.0	5.0	5.9	MS	3.0	R
44	CMH11-583	7.3	4.5	4.0	5.3	MS	3.0	R
45	GK3204	5.5	5.0	5.0	5.2	MS	3.0	R
46	TMMH 838	8.0	5.5	6.0	6.5	MS	2.5	R
47	BIO 9682 (C)	8.5	5.0	6.0	6.5	MS	2.0	R
48	CMH 08-287 (C)	7.3	4.5	NG	5.9	MS	2.5	R
49	CMH 08-282 (C)	7.3	3.0	7.0	5.8	MS	1.5	R
50	Sus. Check	-	8.0	8.0	8.0	S	4.0	MR
51	Local Check	-	-	-	-	-	4.5	MR

*Data not considered due to low disease pressure

Contd.

Susceptible Check:- BLSB:- CM 600 **(KRANAL);** CM 501 **(DELHI);** DKC 7074 **(DHAULAKUAN)**

Table -2 (61 B)

Banded leaf and sheath blight score (1-9)								
		NWPZ					NHZ	
S.No	Genotype	PANT	KARN	DELH	Av. Score	Reaction	DHAU*	Reaction
1	RMH 1601	7.3	5.5	6.0	6.3	MS	2.5	R
2	MH 25	7.5	5.0	5.0	5.8	MS	2.0	R
3	MAH-14-5	8.0	4.5	5.0	5.8	MS	1.5	R
4	WH-1095	7.5	5.5	6.0	6.3	MS	2.0	R
5	MH 26	6.0	6.5	1.0	4.5	MR	2.5	R
6	JH 15130	3.8	4.5	6.0	4.8	MR	1.0	R
7	IMH 1601	6.8	4.0	6.0	5.6	MS	2.0	R
8	DAS-MH-113	4.5	5.6	6.0	5.4	MS	1.0	R
9	IMH 1608	8.0	6.0	6.0	6.7	MS	1.5	R
10	DAS-MH-112	7.8	5.0	7.0	6.6	MS	3.0	R
11	SVMH-55	7.0	6.5	3.0	5.5	MS	2.5	R
12	QMH-1472	7.0	6.0	5.0	6.0	MS	2.0	R
13	AH-7188	7.0	4.0	4.0	5.0	MR	2.0	R
14	JH 13094	7.0	4.5	4.0	5.2	MS	2.0	R
15	IMH 1607	6.5	5.0	6.0	5.8	MS	1.5	R
16	IMH 1526	5.5	4.5	4.0	4.7	MR	2.5	R
17	IMH 1610	7.5	4.0	4.0	5.2	MS	1.0	R
18	BIO 509	5.8	5.5	4.0	5.1	MS	3.0	R
19	JH 13023	7.5	5.0	1.0	4.5	MR	2.5	R
20	QMH-1470	7.8	5.5	6.0	6.4	MS	3.0	R
21	JH 15106	7.8	6.5	7.0	7.1	S	3.0	R
22	JH 15135	7.5	5.5	3.0	5.3	MS	2.5	R
23	NS 8181	7.8	7.0	2.0	5.6	MS	2.5	R
24	IMH 1528	8.3	5.5	5.0	6.3	MS	3.5	MR
25	JH 13337	8.8	5.0	7.0	6.9	MS	3.0	R

Contd.

Table -2 (61 B)

Banded leaf and sheath blight score (1-9)								
		NWPZ					NHZ	
S.No	Genotype	PANT	KARN	DELH	Av. Score	Reaction	DHAU*	Reaction
26	JH 15011	8.3	5.5	NG	6.9	MS	1.5	R
27	AH-7210	7.5	5.5	5.0	6.0	MS	3.0	R
28	AH-1601	6.5	4.0	6.0	5.5	MS	3.5	MR
29	IMH 1527	6.5	5.5	6.0	6.0	MS	2.5	R
30	MMH 1302	6.0	5.5	7.0	6.2	MS	1.5	R
31	RMH 815	7.0	5.5	4.0	5.5	MS	3.0	R
32	NRI MH4	8.0	5.0	4.0	5.7	MS	3.5	MR
33	QMH-1435	7.5	5.0	1.0	4.5	MR	4.0	MR
34	QMH-1478	6.0	5.5	4.0	5.2	MS	3.0	R
35	AH-1602	7.5	6.5	5.0	6.3	MS	2.5	R
36	JH 15004	6.5	5.5	4.0	5.3	MS	2.5	R
37	AH-7005	4.3	6.5	3.0	4.6	MR	1.5	R
38	JH 15080	7.8	5.5	7.0	6.8	MS	2.0	R
39	BIO 716	7.3	5.0	6.0	6.1	MS	2.5	R
40	CAH-1533	6.5	5.5	6.0	6.0	MS	1.0	R
41	BIO 274	5.0	5.5	5.0	5.2	MS	1.0	R
42	IMH 1602	5.0	6.0	4.0	5.0	MR	3.0	R
43	JH 13227	6.5	7.0	6.0	6.5	MS	2.0	R
44	IMH 1533	8.0	6.5	2.0	5.5	MS	2.5	R
45	IMH 1547	8.0	6.5	5.0	6.5	MS	2.0	R
46	NS 8001	7.5	7.0	4.0	6.2	MS	3.0	R
47	BIO 9682 (C)	8.0	4,5	6.0	7.0	MS	2.0	R
48	CMH 08-287 (C)	3.8	5.0	6.0	4.9	MR	2.0	R
49	CMH 08-282 (C)	7.3	6.0	4.0	5.8	MS	2.5	R
50	Sus. Check	9.0	8.0	8.0	8.3	S	3.0	R
51	Local Check	-	-	-	-	-	3.5	MR

*Data not considered due to low disease pressure

Contd.

Susceptible Check:- BLSB:- CM 600 **(PANTNAGAR, KRANAL);** CM 501 **(DELHI)**

Table -1 (61 A)

		Charcoal rot score (1-9)						FSR (1-9)	
		NWPZ		PZ				CWZ	
S.No	Genotype	LUDH	Reaction	HYDE	COIM	Av. Score	Reaction	UDAI	Reaction
1	BLH 115	6.8	MS	2.9	3.7	3.3	MR	5.0	MR
2	SYN616734	6.1	MS	3.6	3.9	3.8	MR	3.8	MR
3	DKC 9178(IQ8623)	4.4	MR	3.8	6.2	5.0	MR	3.1	MR
4	HT 16607	3.9	MR	4.0	2.6	3.3	MR	2.8	R
5	KH-16-149	8.1	S	2.9	7.0	5.0	MR	2.8	R
6	OMH 14-55 (CAH1537)	6.5	MS	3.0	4.0	3.5	MR	2.8	R
7	BH 414012	5.6	MS	2.7	4.2	3.5	MR	5.5	MS
8	JKMH 4152	4.6	MR	3.3	3.6	3.4	MR	5.4	MS
9	CCH 9241	5.4	MS	3.1	3.0	3.1	MR	3.5	MR
10	HM16305	6.3	MS	3.7	1.2	2.5	R	1.7	R
11	OMH 1462 (CAH 142)	4.6	MR	3.6	3.6	3.6	MR	2.4	R
12	CMH11-591	5.8	MS	2.4	2.9	2.7	R	3.3	MR
13	MM9333	7.1	S	2.7	3.9	3.3	MR	3.8	MR
14	GH-1436	8.6	S	2.8	3.3	3.1	MR	3.0	R
15	MM 2030	7.0	MS	2.3	1.7	2.0	R	4.6	MR
16	KMH-5022	5.8	MS	3.4	2.4	2.9	R	3.4	MR
17	PM16104L	7.1	S	2.9	1.6	2.3	R	4.4	MR
18	SYN617328	3.9	MR	2.5	2.8	2.7	R	4.4	MR
19	ADV 9233	5.6	MS	2.8	1.8	2.3	R	3.9	MR
20	BLH 114	6.9	MS	2.9	1.3	2.1	R	5.0	MR
21	Star-9	4.7	MR	3.6	2.2	2.9	R	3.6	MR
22	IMHBG-2016-3	4.5	MR	2.7	1.2	1.9	R	2.6	R
23	PM16102L	5.3	MS	3.2	1.1	2.1	R	3.4	MR
24	X-7	5.7	MS	3.2	1.2	2.2	R	3.0	R
25	C.P 888	4.9	MR	3.4	1.2	2.3	R	3.2	MR

Contd.

Table -1 (61 A)

		Charcoal rot score (1-9)						FSR (1-9)	
		NWPZ		PZ				CWZ	
S.No	Genotype	LUDH	Reaction	HYDE	COIM	Av. Score	Reaction	UDAI	Reaction
26	X-6	5.2	MS	3.4	1.7	2.5	R	3.3	MR
27	VaMH 13024	3.6	MR	3.3	1.1	2.2	R	2.6	R
28	PM16103L	4.8	MR	3.3	1.3	2.3	R	2.2	R
29	PM16101L	8.5	S	3.4	1.1	2.2	R	2.7	R
30	GH-1427	6.2	MS	3.1	2.3	2.7	R	3.2	MR
31	CMH11-586	4.4	MR	2.4	2.3	2.4	R	3.9	MR
32	CCH 167	6.4	MS	3.5	5.6	4.5	MR	4.2	MR
33	GK3202	6.7	MS	2.2	7.7	5.0	MR	5.4	MS
34	KH-POLO Gold	6.2	MS	3.8	4.2	4.0	MR	4.1	MR
35	MM 2626	4.8	MR	3.5	3.6	3.5	MR	4.2	MR
36	VNR 33051	5.7	MS	2.8	4.2	3.5	MR	3.1	MR
37	DH-300	4.7	MR	3.4	1.7	2.5	R	3.8	MR
38	OMH 14-16 (CAH1424)	4.9	MR	4.1	2.8	3.5	MR	4.3	MR
39	DH-301	7.4	S	3.2	1.2	2.2	R	4.4	MR
40	VNR 3Y069	5.7	MS	2.9	1.7	2.3	R	4.1	MR
41	OMH 14-27 (CAH1511)	4.8	MR	2.9	4.5	3.7	MR	3.6	MR
42	KMH-24752	6.8	MS	3.3	1.9	2.6	R	4.5	MR
43	JH 13278	4.2	MR	2.8	3.9	3.3	MR	3.7	MR
44	CMH11-583	5.0	MR	2.6	4.0	3.3	MR	4.0	MR
45	GK3204	4.4	MR	3.4	4.9	4.1	MR	4.6	MR
46	TMMH 838	6.9	MS	2.7	5.1	3.9	MR	4.6	MR
47	BIO 9682 (C)	6.9	MS	3.5	2.8	3.2	MR	3.8	MR
48	CMH 08-287 (C)	4.7	MR	2.5	1.3	1.9	R	3.7	MR
49	CMH 08-282 (C)	3.1	MR	2.4	1.1	1.7	R	3.3	MR
50	Res. Check	-	-	-	1.0	1.0	R	1.5	R
51	Sus. Check	7.1	S	6.7	8.2	7.45	S	8.5	S
52	Local Check	6.2	MS	-	-	-	-	-	-

Resistant Check:- C. ROT:- CoH 6 **(COIMBATORE); FSR:-** DMH 117 **(UDAIPUR)**

Contd.

Susceptible Check:- C. ROT:- CM 600 **(LUDHIANA);** BML 6 **(HYDERABAD);** CM 501 **(COIMBATORE); FSR:-** SURYA **(UDAIPUR)**

Table -2 (61 B)

		Charcoal rot score (1-9)						FSR (1-9)	
		NWPZ		PZ				CWZ	
S.No	Genotype	LUDH	Reaction	HYDE	COIM	Av. Score	Reaction	UDAI	Reaction
1	RMH 1601	5.8	MS	3.1	2.2	2.7	R	4.7	MR
2	MH 25	6.1	MS	3.0	7.6	5.3	MS	4.0	MR
3	MAH-14-5	4.2	MR	3.0	6.1	4.5	MR	4.2	MR
4	WH-1095	5.5	MS	2.7	5.2	4.0	MR	3.6	MR
5	MH 26	6.9	MS	3.3	2.7	3.0	R	3.9	MR
6	JH 15130	5.1	MS	2.0	5.6	3.8	MR	3.3	MR
7	IMH 1601	6.1	MS	3.5	5.2	4.4	MR	3.4	MR
8	DAS-MH-113	3.7	MR	3.4	6.1	4.8	MR	3.6	MR
9	IMH 1608	6.0	MS	3.1	3.4	3.2	MR	3.1	MR
10	DAS-MH-112	5.0	MR	3.2	3.1	3.2	MR	3.7	MR
11	SVMH-55	5.6	MS	3.7	5.1	4.4	MR	4.3	MR
12	QMH-1472	6.2	MS	3.0	4.1	3.5	MR	3.8	MR
13	AH-7188	7.5	S	3.2	3.0	3.1	MR	5.4	MS
14	JH 13094	5.0	MR	3.0	1.2	2.1	R	3.9	MR
15	IMH 1607	6.1	MS	3.5	2.8	3.2	MR	3.8	MR
16	IMH 1526	4.7	MR	3.0	3.1	3.1	MR	3.2	MR
17	IMH 1610	6.9	MS	3.2	2.6	2.9	R	3.4	MR
18	BIO 509	4.0	MR	2.4	1.3	1.9	R	3.3	MR
19	JH 13023	4.3	MR	4.0	1.7	2.8	R	5.1	MS
20	QMH-1470	6.2	MS	2.4	2.3	2.3	R	5.0	MR
21	JH 15106	5.7	MS	3.3	1.1	2.2	R	5.9	MS
22	JH 15135	6.8	MS	3.2	6.1	4.7	MR	4.7	MR
23	NS 8181	5.8	MS	2.8	8.7	5.8	MS	4.4	MR
24	IMH 1528	7.2	S	1.9	2.1	2.0	R	2.8	R
25	JH 13337	5.8	MS	2.6	1.2	1.9	R	3.5	MR

Contd.

Table -2 (61 B)

		Charcoal rot score (1-9)						FSR (1-9)	
		NWPZ		PZ				CWZ	
S.No	Genotype	LUDH	Reaction	HYDE	COIM	Av. Score	Reaction	UDAI	Reaction
26	JH 15011	3.6	MR	2.5	2.3	2.4	R	3.0	R
27	AH-7210	5.4	MS	3.5	1.1	2.3	R	3.0	R
28	AH-1601	4.9	MR	3.0	6.8	4.9	MR	2.8	R
29	IMH 1527	5.1	MS	3.5	4.1	3.8	MR	3.1	MR
30	MMH 1302	4.0	MR	2.3	5.9	4.1	MR	2.8	R
31	RMH 815	6.7	MS	3.5	6.2	4.8	MR	4.1	MR
32	NRI MH4	4.7	MR	3.5	2.2	2.8	R	4.4	MR
33	QMH-1435	5.3	MS	3.9	2.9	3.4	MR	3.4	MR
34	QMH-1478	4.2	MR	3.4	7.8	5.6	MS	3.7	MR
35	AH-1602	4.5	MR	2.8	5.0	3.9	MR	3.2	MR
36	JH 15004	4.5	MR	2.5	3.2	2.9	R	3.9	MR
37	AH-7005	7.4	S	3.1	2.3	2.7	R	4.7	MR
38	JH 15080	4.7	MR	2.3	3.8	3.1	MR	3.5	MR
39	BIO 716	6.3	MS	2.3	4.9	3.6	MR	5.4	MS
40	CAH-1533	5.6	MS	2.1	8.0	5.0	MR	4.6	MR
41	BIO 274	3.9	MR	3.4	2.3	2.8	R	3.8	MR
42	IMH 1602	5.0	MR	3.7	3.5	3.6	MR	3.3	MR
43	JH 13227	3.3	MR	1.8	5.5	3.6	MR	4.3	MR
44	IMH 1533	7.5	S	3.3	5.7	4.5	MR	4.1	MR
45	IMH 1547	7.2	S	3.8	5.4	4.6	MR	5.0	MR
46	NS 8001	5.0	MR	3.5	1.3	2.4	R	4.1	MR
47	BIO 9682 (C)	5.0	MR	3.6	4.4	4.0	MR	5.1	MS
48	CMH 08-287 (C)	3.6	MR	3.7	5.1	4.4	MR	5.9	MS
49	CMH 08-282 (C)	3.8	MR	2.6	2.7	2.7	R	4.4	MR
50	Res. Check	-	-	-	1.1	1.1	R	2.0	R
51	Sus. Check	6.9	MS	6.7	9.0	7.9	S	8.5	S
52	Local Check	6.6	MS	-	-	-	-	-	-

Resistant Check:- C. ROT:- CoH 6 **(COIMBATORE); FSR:-** DMH 117 **(UDAIPUR)**

Contd.

Susceptible Check:- C. ROT:- CM 600 **(LUDHIANA);** BML 6 **(HYDERABAD);** CM 501 **(COIMBATORE); FSR:-** SURYA **(UDAIPUR)**

Table -1 (61 A)

		C. Rust (1-9)		RDM (%)		SDM (%)		
		PZ		CWZ		PZ		
S.No	Genotype	DHAR	Reaction	UDAI	Reaction	MAND	COIM*	Reaction
1	BLH 115	2.0	R	40.0	MS	100.0	0.0	S
2	SYN616734	1.0	HR	16.0	MR	73.6	5.0	S
3	DKC 9178(IQ8623)	2.0	R	11.0	MR	24.5	0.0	MR
4	HT 16607	2.0	R	0.0	R	79.0	0.0	S
5	KH-16-149	2.0	R	33.0	MS	92.9	0.0	S
6	OMH 14-55 (CAH1537)	2.5	MR	33.0	MS	89.1	0.0	S
7	BH 414012	7.0	S	12.0	MR	75.8	0.0	S
8	JKMH 4152	2.5	MR	0.0	R	23.6	0.0	MR
9	CCH 9241	2.0	R	0.0	R	94.7	0.0	S
10	HM16305	1.5	R	0.0	R	25.0	0.0	MR
11	OMH 1462 (CAH 142)	1.5	R	30.0	MS	57.0	0.0	S
12	CMH11-591	5.0	MS	18.0	MR	NG	27.5	-
13	MM9333	2.0	R	20.0	MR	84.8	0.0	S
14	GH-1436	7.0	S	36.0	MS	90.9	0.0	S
15	MM 2030	4.5	MS	11.0	MR	79.7	8.3	S
16	KMH-5022	7.5	S	16.0	MR	73.1	15.0	S
17	PM16104L	4.0	MR	0.0	R	83.1	5.6	S
18	SYN617328	1.5	R	0.0	R	60.2	0.0	S
19	ADV 9233	2.5	MR	0.0	R	14.8	0.0	MR
20	BLH 114	5.5	MS	9.0	R	18.3	0.0	MR
21	Star-9	5.0	MS	18.0	MR	77.8	25.0	S
22	IMHBG-2016-3	1.5	R	0.0	R	72.3	5.0	S
23	PM16102L	6.5	S	33.0	MS	66.2	0.0	S
24	X-7	2.0	R	7.0	R	68.3	0.0	S
25	C.P 888	2.0	R	7.0	R	86.6	27.8	S

Contd.

Table -1 (61 A)

		C. Rust (1-9)		RDM (%)		SDM (%)		
		PZ		CWZ		PZ		
S.No	Genotype	DHAR	Reaction	UDAI	Reaction	MAND	COIM*	Reaction
26	X-6	5.3	MS	50.0	MS	98.2	0.0	S
27	VaMH 13024	4.0	MR	33.0	MS	25.0	25.0	MR
28	PM16103L	2.5	MR	0.0	R	75.1	0.0	S
29	PM16101L	4.0	MR	43.0	MS	80.9	17.7	S
30	GH-1427	5.0	MS	0.0	R	90.9	5.0	S
31	CMH11-586	1.5	R	33.0	MS	100.0	0.0	S
32	CCH 167	7.5	S	50.0	MS	100.0	5.0	S
33	GK3202	5.0	MS	25.0	MR	91.9	0.0	S
34	KH-POLO Gold	3.0	MR	17.0	MR	61.2	21.4	S
35	MM 2626	4.5	MS	33.0	MS	75.0	0.0	S
36	VNR 33051	1.5	R	0.0	R	51.4	6.3	S
37	DH-300	2.0	R	12.0	MR	21.4	0.0	MR
38	OMH 14-16 (CAH1424)	4.5	MS	0.0	R	80.1	0.0	S
39	DH-301	4.5	MS	40.0	MS	91.7	6.3	S
40	VNR 3Y069	2.0	R	20.0	MR	41.2	4.5	MS
41	OMH 14-27 (CAH1511)	1.5	R	0.0	R	70.5	0.0	S
42	KMH-24752	1.5	R	0.0	R	11.9	0.0	MR
43	JH 13278	8.5	S	0.0	R	86.4	0.0	S
44	CMH11-583	4.5	MS	0.0	R	8.3	16.1	R
45	GK3204	2.0	R	0.0	R	54.6	16.7	S
46	TMMH 838	2.0	R	43.0	MS	10.0	30.0	R
47	BIO 9682 (C)	4.0	MR	0.0	R	17.9	4.2	MR
48	CMH 08-287 (C)	4.0	MR	0.0	R	53.8	0.0	S
49	CMH 08-282 (C)	5.0	MS	11.0	MR	53.2	22.2	S
50	Res. Check	4.0	MR	10.0	R	11.8	0.0	MR
51	Sus. Check	8.0	S	90.0	S	100.0	0.0	S

*Data not considered due erratic disease pressure

Contd.

Resistant Check:- C. RUST:- CI 4 **(DHARWAD); RDM:-** DHM 117 **(UDAIPUR); SDM:-** NAH 1137 **(MANDYA)**

Susceptible Check:- C. RUST; CM 202 **(DHARWAD); RDM:-** SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA)**

Table -2 (61 B)

		C. Rust (1-9)		RDM (%)		SDM (%)		
		PZ		CWZ		PZ		
S.No	Genotype	DHAR	Reaction	UDAI	Reaction	MAND	COIM*	Reaction
1	RMH 1601	1.5	R	12.0	MR	23.0	0.0	MR
2	MH 25	4.0	MR	40.0	MS	85.7	0.0	S
3	MAH-14-5	1.5	R	0.0	R	22.8	30.8	MR
4	WH-1095	9.0	S	12.0	MR	61.3	0.0	S
5	MH 26	8.0	S	22.0	MR	98.1	0.0	S
6	JH 15130	6.5	S	20.0	MR	72.9	0.0	S
7	IMH 1601	7.5	S	18.0	MR	100.0	0.0	S
8	DAS-MH-113	5.3	MS	20.0	MR	69.9	12.5	S
9	IMH 1608	2.0	R	40.0	MS	97.2	52.5	S
10	DAS-MH-112	1.5	R	33.0	MS	69.4	5.0	S
11	SVMH-55	3.5	MR	25.0	MR	NG	0.0	-
12	QMH-1472	7.5	S	11.0	MR	94.6	25.0	S
13	AH-7188	2.0	R	13.0	MR	95.5	10.0	S
14	JH 13094	4.5	MS	12.0	MR	92.6	4.2	S
15	IMH 1607	3.5	MR	15.0	MR	100.0	0.0	S
16	IMH 1526	1.5	R	22.0	MR	100.0	0.0	S
17	IMH 1610	7.5	S	0.0	R	87.5	15.0	S
18	BIO 509	2.5	MR	43.0	MS	25.4	0.0	MS
19	JH 13023	1.5	R	0.0	R	2.0	0.0	R
20	QMH-1470	3.5	MR	0.0	R	93.6	0.0	S
21	JH 15106	4.0	MR	33.0	MS	96.0	0.0	S
22	JH 15135	4.5	MS	0.0	R	69.5	0.0	S
23	NS 8181	3.0	MR	12.5	MR	70.6	16.7	S
24	IMH 1528	5.5	MS	7.0	R	86.9	6.3	S
25	JH 13337	4.5	MS	10.0	R	21.9	0.0	MR

Contd.

Table -2 (61 B)

		C. Rust (1-9)		RDM (%)		SDM (%)		
		PZ		CWZ		PZ		
S.No	Genotype	DHAR	Reaction	UDAI	Reaction	MAND	COIM*	Reaction
26	JH 15011	9.0	S	14.0	MR	98.0	0.0	S
27	AH-7210	4.0	MR	0.0	R	98.0	33.3	S
28	AH-1601	4.0	MR	0.0	R	98.1	50.0	S
29	IMH 1527	6.5	S	0.0	R	91.6	6.3	S
30	MMH 1302	6.0	MS	14.0	MR	67.0	0.0	S
31	RMH 815	4.0	MR	0.0	R	46.0	41.7	MS
32	NRI MH4	3.5	MR	0.0	R	75.0	7.7	S
33	QMH-1435	5.0	MS	12.5	MR	89.2	21.7	S
34	QMH-1478	2.0	R	0.0	R	84.6	0.0	S
35	AH-1602	3.0	MR	20.0	MR	68.8	0.0	S
36	JH 15004	7.0	S	22.0	MR	65.1	0.0	S
37	AH-7005	2.0	R	8.0	R	100.0	50.0	S
38	JH 15080	2.5	MR	14.0	MR	61.9	0.0	S
39	BIO 716	2.5	MR	25.0	MR	78.0	16.7	S
40	CAH-1533	2.5	MR	20.0	MR	57.0	6.3	S
41	BIO 274	2.0	R	7.0	R	14.1	63.9	MR
42	IMH 1602	5.5	MS	0.0	R	100.0	4.2	S
43	JH 13227	7.3	S	0.0	R	52.2	12.5	S
44	IMH 1533	4.0	MR	10.0	R	91.3	18.8	S
45	IMH 1547	4.5	MS	14.0	MR	96.6	0.0	S
46	NS 8001	5.0	MS	80.0	S	75.0	20.0	S
47	BIO 9682 (C)	2.5	MR	0.0	R	45.6	5.6	MS
48	CMH 08-287 (C)	5.5	MS	0.0	R	92.2	25.0	S
49	CMH 08-282 (C)	1.5	R	0.0	R	51.5	20.00	S
50	Res. Check	4.0	MR	10.0	R	19.9	0.0	MR
51	Sus. Check	8.0	S	90.0	S	97.4	10.0	S

*Data not considered due erratic disease pressure

Contd.

Resistant Check:- C. RUST:- CI 4 **(DHARWAD); RDM:-** DHM 117 **(UDAIPUR); SDM:-** NAH 1137 **(MANDYA)**

Susceptible Check:- C. RUST:- CM 202 **(DHARWAD); RDM:-** SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA)**

Table -1 (61 A)

BSR (%)					
		NWPZ		NHZ	
S.No	Genotype	PANT	Reaction	DHAU	Reaction
1	BLH 115	0.0	R	37.7	MS
2	SYN616734	5.6	R	43.8	MS
3	DKC 9178(IQ8623)	43.9	MS	44.4	MS
4	HT 16607	0.0	R	45.8	MS
5	KH-16-149	61.3	S	45.0	MS
6	OMH 14-55 (CAH1537)	7.2	R	40.1	MS
7	BH 414012	20.8	MR	50.2	S
8	JKMH 4152	4.2	R	46.1	MS
9	CCH 9241	15.5	MR	41.7	MS
10	HM16305	23.0	MR	41.4	MS
11	OMH 1462 (CAH 142)	34.9	MS	50.0	MS
12	CMH11-591	0.0	R	45.1	MS
13	MM9333	11.2	MR	36.5	MS
14	GH-1436	56.8	S	44.4	MS
15	MM 2030	93.8	S	41.4	MS
16	KMH-5022	29.2	MS	44.8	MS
17	PM16104L	18.3	MR	50.5	S
18	SYN617328	0.0	R	46.5	MS
19	ADV 9233	31.7	MS	49.5	MS
20	BLH 114	0.0	R	56.4	S
21	Star-9	18.3	MR	52.8	S
22	IMHBG-2016-3	22.5	MR	51.3	S
23	PM16102L	22.5	MR	50.0	MS
24	X-7	45.0	MS	52.8	S
25	C.P 888	32.5	MS	50.9	S

Contd.

Table -1 (61 A)

		BSR (%)			
		NWPZ		NHZ	
S.No	Genotype	PANT	Reaction	DHAU	Reaction
26	X-6	0.0	R	46.5	MS
27	VaMH 13024	25.0	MR	45.8	MS
28	PM16103L	13.8	MR	38.9	MS
29	PM16101L	63.6	S	51.7	S
30	GH-1427	14.6	MR	51.6	S
31	CMH11-586	52.3	S	50.0	MS
32	CCH 167	43.2	MS	43.9	MS
33	GK3202	0.0	R	51.2	S
34	KH-POLO Gold	16.3	MR	51.9	S
35	MM 2626	4.2	R	51.3	S
36	VNR 33051	73.3	S	48.8	MS
37	DH-300	31.2	MS	50.8	S
38	OMH 14-16 (CAH1424)	27.8	MS	48.1	MS
39	DH-301	12.7	MR	46.9	MS
40	VNR 3Y069	34.9	MS	36.9	MS
41	OMH 14-27 (CAH1511)	23.6	MR	44.1	MS
42	KMH-24752	9.4	R	54.9	S
43	JH 13278	68.3	S	48.9	MS
44	CMH11-583	0.0	R	42.0	MS
45	GK3204	0.0	R	42.7	MS
46	TMMH 838	41.5	MS	36.7	MS
47	BIO 9682 (C)	0.0	R	33.9	MS
48	CMH 08-287 (C)	18.1	MR	55.7	S
49	CMH 08-282 (C)	18.3	MR	50.0	MS
50	Sus. Check	-	-	66.5	S
51	Local Check	-	-	53.6	S

Contd.

Susceptible Check:- BSR:- DKC 7074 **(DHAULAKUAN)**

Table -2 (61 B)

BSR (%)					
		NWPZ		NHZ	
S.No	Genotype	PANT	Reaction	DHAU	Reaction
1	RMH 1601	21.1	MR	60.7	S
2	MH 25	81.7	S	59.6	S
3	MAH-14-5	12.9	MR	45.8	MS
4	WH-1095	43.8	MS	56.0	S
5	MH 26	42.3	MS	54.9	S
6	JH 15130	50.6	S	66.7	S
7	IMH 1601	12.9	MR	60.5	S
8	DAS-MH-113	4.2	R	57.8	S
9	IMH 1608	79.1	S	56.1	S
10	DAS-MH-112	0.0	R	52.8	S
11	SVMH-55	26.7	MS	46.1	MS
12	QMH-1472	38.6	MS	60.8	S
13	AH-7188	46.5	MS	63.7	S
14	JH 13094	33.2	MS	63.7	S
15	IMH 1607	68.5	S	66.8	S
16	IMH 1526	26.7	MS	40.0	MS
17	IMH 1610	80.4	S	66.4	S
18	BIO 509	22.2	MR	57.1	S
19	JH 13023	4.6	R	70.2	S
20	QMH-1470	31.0	MS	50.1	S
21	JH 15106	24.1	MR	55.2	S
22	JH 15135	3.3	R	40.8	MS
23	NS 8181	59.9	S	34.1	MS
24	IMH 1528	65.2	S	50.0	MS
25	JH 13337	13.3	MR	32.0	MS

Contd.

Table -2 (61 B)

BSR (%)					
		NWPZ		NHZ	
S.No	Genotype	PANT	Reaction	DHAU	Reaction
26	JH 15011	0.0	R	37.0	MS
27	AH-7210	4.2	R	37.2	MS
28	AH-1601	38.8	MS	37.6	MS
29	IMH 1527	43.8	MS	41.1	MS
30	MMH 1302	23.6	MR	37.2	MS
31	RMH 815	29.2	MS	37.8	MS
32	NRI MH4	0.0	R	56.9	S
33	QMH-1435	76.3	S	45.0	MS
34	QMH-1478	37.5	MS	41.5	MS
35	AH-1602	15.0	MR	45.6	MS
36	JH 15004	5.9	R	51.2	S
37	AH-7005	35.7	MS	37.8	MS
38	JH 15080	25.0	MR	39.3	MS
39	BIO 716	5.0	R	45.6	MS
40	CAH-1533	36.7	MS	48.7	MS
41	BIO 274	0.0	R	33.6	MS
42	IMH 1602	38.8	MS	47.2	MS
43	JH 13227	11.7	MR	65.0	S
44	IMH 1533	82.0	S	52.4	S
45	IMH 1547	31.0	MS	57.5	S
46	NS 8001	26.9	MS	63.8	S
47	BIO 9682 (C)	8.3	R	43.4	MS
48	CMH 08-287 (C)	40.9	MS	56.5	S
49	CMH 08-282 (C)	30.3	MS	51.8	S
50	Sus. Check	-	-	87.4	S
51	Local Check	90.0	S	58.9	S

Contd.

Susceptible Check:- BSR:- CM 600 **(PANTNAGAR);** DKC 7074 **(DHAULKUAN)**

Table -1 (61 A)

		CLS (1-9)				Cyst nematode	
		CWZ		NHZ		CWZ	
S.No	Genotype	UDAI	Reaction	DHAU	Reaction	UDAI	Reaction
1	BLH 115	1.5	R	1.5	R	14--22	S
2	SYN616734	1.0	R	1.0	R	20--27	S
3	DKC 9178(IQ8623)	2.0	R	1.0	R	15--19	S
4	HT 16607	4.0	MR	1.0	R	4--7	MR
5	KH-16-149	3.5	MR	1.0	R	28--38	S
6	OMH 14-55 (CAH1537)	2.5	R	1.0	R	23--32	S
7	BH 414012	2.0	R	1.5	R	21--27	S
8	JKMH 4152	3.5	MR	1.0	R	30--43	S
9	CCH 9241	2.5	R	1.0	R	16--21	S
10	HM16305	3.5	MR	1.0	R	12--19	S
11	OMH 1462 (CAH 142)	3.0	R	1.0	R	21--32	S
12	CMH11-591	3.5	MR	1.0	R	24--33	S
13	MM9333	0.5	R	1.0	R	18--22	S
14	GH-1436	4.5	MR	1.0	R	20--29	S
15	MM 2030	2.0	R	1.0	R	26--37	S
16	KMH-5022	5.0	MR	1.0	R	32--45	S
17	PM16104L	4.5	MR	1.0	R	21--26	S
18	SYN617328	5.5	MS	1.0	R	40--51	S
19	ADV 9233	4.0	MR	1.0	R	16--22	S
20	BLH 114	3.0	R	1.0	R	14--22	S
21	Star-9	4.5	MR	1.0	R	26--33	S
22	IMHBG-2016-3	2.0	R	1.0	R	2--5	MR
23	PM16102L	2.5	R	1.0	R	12--16	S
24	X-7	1.0	R	1.0	R	20--26	S
25	C.P 888	2.0	R	1.0	R	14--21	S

Contd.

Table -1 (61 A)

		CLS (1-9)				Cyst nematode	
		CWZ		NHZ		CWZ	
S.No	Genotype	UDAI	Reaction	DHAU	Reaction	UDAI	Reaction
26	X-6	1.0	R	1.0	R	11--18	S
27	VaMH 13024	2.5	R	1.0	R	8--15	S
28	PM16103L	1.0	R	1.0	R	11--20	S
29	PM16101L	1.0	R	1.0	R	22--32	S
30	GH-1427	1.0	R	1.0	R	12--20	S
31	CMH11-586	2.5	R	1.0	R	9--18	S
32	CCH 167	1.0	R	1.0	R	16--22	S
33	GK3202	2.0	R	1.0	R	15--20	S
34	KH-POLO Gold	1.0	R	1.0	R	10--18	S
35	MM 2626	6.0	MS	1.0	R	28--40	S
36	VNR 33051	1.0	R	1.0	R	16--21	S
37	DH-300	5.0	MR	1.0	R	10--17	S
38	OMH 14-16 (CAH1424)	6.5	MS	1.5	R	13--22	S
39	DH-301	6.5	MS	1.5	R	26--38	S
40	VNR 3Y069	4.5	MR	1.0	R	33--42	S
41	OMH 14-27 (CAH1511)	1.5	R	1.0	R	3--8	MR
42	KMH-24752	1.5	R	1.0	R	13--18	S
43	JH 13278	1.0	R	1.0	R	20--24	S
44	CMH11-583	1.0	R	1.0	R	14--20	S
45	GK3204	2.0	R	1.0	R	20--28	S
46	TMMH 838	6.5	MS	1.0	R	11--16	S
47	BIO 9682 (C)	6.5	MS	1.0	R	9--18	S
48	CMH 08-287 (C)	6.5	MS	1.0	R	18--28	S
49	CMH 08-282 (C)	1.0	R	1.0	R	13--17	S
50	Res. Check	1.8	R	-	-	3--8	MR
51	Sus. Check	8.5	S	2.8	R	21--30	S
52	Local Check	-	-	2.5	R	7--12	S

Resistant Check:- Cyst Nematode:- Pratap H. Maize-3 **(UDAIPUR)**

Susceptible Check:- CLS:- DKC 7074 **(DHAULAKUAN); Cyst Nematode:-** Pratap Makka-3 **(UDAIPUR)**

Table -2 (61 B)

		CLS (1-9)				Cyst nematode	
		CWZ		NHZ		CWZ	
S.No	Genotype	UDAI	Reaction	DHAU	Reaction	UDAI	Reaction
1	RMH 1601	6.5	MS	1.5	R	31--38	S
2	MH 25	1.5	R	1.0	R	19--24	S
3	MAH-14-5	5.0	MR	1.0	R	17--21	S
4	WH-1095	6.5	MS	1.0	R	15--18	S
5	MH 26	6.5	MS	1.0	R	19--30	S
6	JH 15130	1.5	R	1.0	R	8--14	S
7	IMH 1601	2.0	R	2.0	R	16--22	S
8	DAS-MH-113	1.5	R	1.0	R	12--18	S
9	IMH 1608	4.0	MR	2.0	R	27--38	S
10	DAS-MH-112	1.0	R	1.0	R	10--16	S
11	SVMH-55	6.0	MS	1.0	R	21--40	S
12	QMH-1472	6.5	MS	1.0	R	17--22	S
13	AH-7188	6.5	MS	1.0	R	14--20	S
14	JH 13094	4.5	MR	1.0	R	12--16	S
15	IMH 1607	3.0	R	2.0	R	10--18	S
16	IMH 1526	6.5	MS	1.0	R	24--32	S
17	IMH 1610	4.0	MR	1.0	R	15--21	S
18	BIO 509	3.0	R	1.5	R	20--27	S
19	JH 13023	6.5	MS	1.0	R	31--42	S
20	QMH-1470	2.0	R	1.5	R	11--18	S
21	JH 15106	6.5	MS	1.0	R	13--21	S
22	JH 15135	2.0	R	1.0	R	24--33	S
23	NS 8181	4.5	MR	1.0	R	12--16	S
24	IMH 1528	1.5	R	1.0	R	17--22	S
25	JH 13337	1.5	R	1.0	R	4--9	MR

Contd.

Table -2 (61 B)

		CLS (1-9)				Cyst nematode	
		CWZ		NHZ		CWZ	
S.No	Genotype	UDAI	Reaction	DHAU	Reaction	UDAI	Reaction
26	JH 15011	2.5	R	1.0	R	9--16	S
27	AH-7210	2.5	R	1.0	R	14--22	S
28	AH-1601	6.5	MS	1.0	R	29--36	S
29	IMH 1527	1.5	R	1.0	R	22--31	S
30	MMH 1302	6.5	MS	1.0	R	19--28	S
31	RMH 815	1.5	R	1.0	R	13--18	S
32	NRI MH4	6.5	MS	1.5	R	15--24	S
33	QMH-1435	3.0	R	1.5	R	22--33	S
34	QMH-1478	1.5	R	2.0	R	20--26	S
35	AH-1602	1.5	R	1.0	R	13--17	S
36	JH 15004	1.5	R	1.0	R	6--12	S
37	AH-7005	6.0	MS	1.0	R	30--38	S
38	JH 15080	2.0	R	1.5	R	19--26	S
39	BIO 716	6.5	MS	2.5	R	3--6	MR
40	CAH-1533	2.0	R	1.0	R	7--14	S
41	BIO 274	1.5	R	1.0	R	8--13	S
42	IMH 1602	6.5	MS	1.0	R	10--18	S
43	JH 13227	1.5	R	1.0	R	8--16	S
44	IMH 1533	1.0	R	1.0	R	10--19	S
45	IMH 1547	1.5	R	1.0	R	13--24	S
46	NS 8001	3.0	R	2.5	R	20--32	S
47	BIO 9682 (C)	2.0	R	2.0	R	10--20	S
48	CMH 08-287 (C)	1.5	R	1.0	R	12--17	S
49	CMH 08-282 (C)	1.0	R	1.0	R	9--15	S
50	Res. Check	1.8	R	-	-	2--6	MR
51	Sus. Check	8.5	S	2.8	R	30--38	S
52	Local Check	-	-	2.5	R	2--8	MR

Resistant Check:- Cyst Nematode:- Pratap H. Maize-3 **(UDAIPUR)**

Susceptible Check:- CLS:- DKC 7074 **(DHAULAKUAN); Cyst Nematode:-** Pratap Makka-3 **(UDAIPUR)**

Table 3. Screening of NIVT (medium maturity) maize Hybrids (Trial 62 A)

		Maydis leaf blight score (1-9)										
		NHZ				NWPZ					NEPZ	
S.No	Genotype	DHAU	ALMO	Av. Score	Reaction	DELH	KARN	LUDH	Av. Score	Reaction	DHOL	Reaction
1	OMH 14-18(CAH 1519)	1.0	1.0	1.0	R	1.0	4.0	3.0	2.7	R	3.0	R
2	DH-291	2.5	1.0	1.8	R	1.0	5.0	3.0	3.0	R	3.0	R
3	GH-150141(CAH1441)	1.0	1.0	1.0	R	3.0	3.5	3.5	3.3	MR	6.0	MS
4	WH-2002	4.0	5.0	4.5	MR	2.0	5.5	5.5	4.3	MR	7.5	S
5	MM9222	1.0	1.0	1.0	R	1.0	6.0	3.0	3.3	MR	4.0	MR
6	BLH 112	2.0	3.0	2.5	R	1.0	6.0	4.0	3.7	MR	6.5	MS
7	VaMH 14020	1.0	3.0	2.0	R	1.0	5.5	3.0	3.2	MR	3.5	MR
8	BLH 113	3.5	1.0	2.3	R	1.0	5.0	4.5	3.5	MR	6.5	MS
9	DH-303	1.5	1.0	1.3	R	2.0	5.5	5.0	4.2	MR	7.0	MS
10	UDMH-128	3.0	3.0	3.0	R	1.0	5.0	3.5	3.2	MR	6.0	MS
11	IQ8319	1.5	1.0	1.3	R	1.0	5.0	3.0	3.0	R	3.0	R
12	GH-150114(CAH1414)	1.0	1.0	1.0	R	1.0	4.5	3.5	3.0	R	6.0	MS
13	IMHBG-2016-2	1.0	3.0	2.0	R	1.0	4.0	2.0	2.3	R	7.0	MS
14	Kranthi	1.5	3.0	2.3	R	2.0	5.5	3.5	3.7	MR	6.5	MS
15	JKMH 4157	1.0	1.0	1.0	R	2.0	4.0	3.0	3.0	R	6.5	MS
16	BLH 111	3.5	5.0	4.3	MR	2.5	7.0	4.5	4.7	MR	4.0	MR
17	KMH-14-37	3.0	5.0	4.0	MR	1.0	6.0	5.0	4.0	MR	7.0	MS
18	IQ8712	2.5	1.0	1.8	R	1.0	5.0	2.0	2.7	R	5.0	MR
19	IIMRNH 2016-1	1.5	5.0	3.3	MR	1.0	5.0	2.5	2.8	R	4.0	MR
20	WH-1003	1.0	5.0	3.0	R	1.0	4.0	4.0	3.0	R	3.0	R
21	IQ8627	1.5	1.0	1.3	R	1.0	4.5	3.0	2.8	R	4.0	MR
22	OMH 14-30(CAH 1514)	2.0	3.0	2.5	R	1.0	3.0	3.5	2.5	R	6.5	MS

Contd.

Table-3 (62 A)

		Maydis leaf blight score (1-9)										
		NHZ				NWPZ					NEPZ	
S.No	Genotype	DHAU	ALMO	Av. Score	Reaction	DELH	KARN	LUDH	Av. Score	Reaction	DHOL	Reaction
23	UDMH-129	1.5	3.0	2.3	R	1.0	5.5	4.0	3.5	MR	6.0	MS
24	KMH-14-73	1.5	5.0	3.3	MR	1.0	5.5	5.0	3.8	MR	6.0	MS
25	GOLD-1155	1.0	5.0	3.0	R	1.0	4.0	2.0	2.3	R	6.5	MS
26	Gagan	2.0	5.0	3.5	MR	2.0	6.0	5.0	4.3	MR	6.0	MS
27	IMHBG-2016-4	1.0	1.0	1.0	R	1.0	5.0	3.5	3.2	MR	3.0	R
28	IQ7802	1.5	1.0	1.3	R	1.0	5.5	3.0	3.2	MR	5.0	MR
29	FCH-11267	1.0	1.0	1.0	R	1.0	4.5	3.5	3.0	R	4.0	MR
30	JKMH 1414	1.0	1.0	1.0	R	2.0	5.5	2.5	3.3	MR	4.5	MR
31	IMHBG-2016-1	1.0	1.0	1.0	R	2.0	3.5	3.0	2.8	R	4.5	MR
32	WH-2006	2.5	1.0	1.8	R	1.0	4.0	4.0	3.0	R	6.0	MS
33	IMHBG-2016-5	3.0	5.0	4.0	MR	1.0	5.0	3.0	3.0	R	7.0	MS
34	IMHBG-2016-6	1.0	1.0	1.0	R	1.0	6.0	3.5	3.5	MR	3.0	R
35	GH-150125(CAH1525)	1.0	3.0	2.0	R	1.0	4.0	3.5	2.8	R	6.0	MS
36	DH-302	2.5	1.0	1.8	R	5.0	NG	4.5	4.8	MR	6.0	MS
37	CMH 08-292 (C)	1.0	1.0	1.0	R	1.0	NG	3.0	2.0	R	3.0	R
38	BIO 9544 (C)	1.0	1.0	1.0	R	2.0	NG	3.0	2.5	R	6.0	MS
39	DHM 121 (C)	2.5	3.0	2.8	R	1.0	NG	2.5	1.8	R	3.0	R
40	Sus. Check	3.5	-	3.5	MR	7.0	7.5	8.0	7.5	S	8.0	S
41	Local Check	3.5	-	-	-	-	-	6.5	6.5	MS	-	-

Contd.

Susceptible Check:- MLB:- DKC 7074 **(DHAULAKUAN);** CM 600 **(DELHI, KARNAL, LUDHIANA);** CML186 **(DHOLI)**

Table 4. Screening of NIVT (medium maturity) maize Hybrids (Trial 62 B)

		Maydis leaf blight score (1-9)										
		NHZ				NWPZ					NEPZ	
S.No	Genotype	DHAU	ALMO	Av. Score	Reaction	DELH	KARN	LUDH	Av. Score	Reaction	DHOL	Reaction
1	LMH 616	2.0	3.0	2.5	R	4.0	5.5	3.5	4.3	MR	3.0	R
2	IMH 1607	1.5	5.0	3.3	MR	6.0	5.0	3.5	4.8	MR	6.5	MS
3	IMH 1606	3.0	5.0	4.0	MR	2.0	6.0	3.5	3.8	MR	4.0	MR
4	IMH 1526	2.0	3.0	2.5	R	4.0	4.0	3.5	3.8	MR	3.0	R
5	HKH 354	5.0	5.0	5.0	MR	1.0	7.5	4.0	4.2	MR	6.0	MS
6	IMH 1609	2.5	5.0	3.8	MR	3.0	5.5	2.5	3.7	MR	6.5	MS
7	DMRH 1419	1.5	1.0	1.3	R	4.0	6.5	2.5	4.3	MR	6.5	MS
8	LMH 916	2.5	1.0	1.8	R	4.0	5.5	2.5	4.0	MR	3.0	R
9	LMH 816	2.0	1.0	1.5	R	1.0	4.5	2.0	2.5	R	5.0	MR
10	IMH 1604	3.0	1.0	2.0	R	5.0	6.5	4.0	5.2	MS	4.0	MR
11	MH 23	3.5	1.0	2.3	R	3.0	6.5	3.5	4.3	MR	7.0	MS
12	IMH 1605	2.5	1.0	1.8	R	4.0	6.0	4.5	4.8	MR	7.0	MS
13	LMH 1116	1.5	1.0	1.3	R	5.0	4.5	3.0	4.2	MR	3.0	R
14	IMH 1608	2.0	5.0	3.5	MR	1.0	5.5	2.5	3.0	R	7.0	MS
15	EH-2906	5.0	1.0	3.0	R	2.0	4.5	3.5	3.3	MR	4.0	MR
16	LMH 716	1.5	1.0	1.3	R	3.0	4.5	3.0	3.5	MR	5.0	MR
17	VEH-16-1	1.5	1.0	1.3	R	6.0	6.0	3.0	5.0	MR	4.5	MR
18	IMH 1601	2.0	1.0	1.5	R	3.0	5.0	3.5	3.8	MR	6.5	MS
19	HKH 355	3.5	1.0	2.3	R	6.0	7.0	3.0	5.3	MS	6.0	MS
20	MMH 1403	1.5	1.0	1.3	R	1.0	4.5	4.5	3.3	MR	3.0	R
21	HKH 356	1.5	1.0	1.3	R	3.0	5.5	4.0	4.2	MR	6.0	MS
22	KH-2001 Gold	1.5	5.0	3.3	MR	1.0	5.5	3.0	3.2	MR	3.0	R
23	IMH 1602	1.0	3.0	2.0	R	1.0	6.0	3.0	3.3	MR	4.5	MR
24	BH 414176	2.5	1.0	1.8	R	5.0	6.0	3.5	4.8	MR	3.0	R
25	CCH 9999	2.0	1.0	1.5	R	1.0	6.0	3.5	3.5	MR	6.5	MS

Contd.

Table-4 (62 B)

		Maydis leaf blight score (1-9)										
		NHZ				NWPZ					NEPZ	
S.No	Genotype	DHAU	ALMO	Av. Score	Reaction	DELH	KARN	LUDH	Av. Score	Reaction	DHOL	Reaction
26	LMH 1216	1.5	1.0	1.3	R	4.0	5.0	3.0	4.0	MR	3.0	R
27	DMRH 1410	1.5	1.0	1.3	R	1.0	5.0	3.0	3.0	R	4.5	MR
28	BH 414351	1.0	3.0	2.0	R	6.0	5.0	3.5	4.8	MR	6.5	MS
29	HKH 353	4.5	1.0	2.8	R	1.0	6.5	4.5	4.0	MR	6.5	MS
30	LMH 1016	3.0	5.0	4.0	MR	3.0	5.0	3.0	3.7	MR	3.0	R
31	INDAM-1122	2.0	1.0	1.5	R	1.0	6.5	3.5	3.7	MR	6.0	MS
32	IMH 1603	1.0	1.0	1.0	R	5.0	6.5	3.5	5.0	MR	6.0	MS
33	DAS-MH-310	2.0	-	2.0	R	6.0	5.0	3.0	4.7	MR	4.5	MR
34	IMH 1527	2.0	5.0	3.5	MR	2.0	5.5	3.5	3.7	MR	6.0	MS
35	IMH 1533	2.5	5.0	3.8	MR	1.0	6.0	2.5	3.2	MR	5.0	MR
36	AH-7080	3.0	1.0	2.0	R	3.0	5.0	3.5	3.8	MR	4.0	MR
37	MH 24	4.0	1.0	2.5	R	4.0	5.5	5.0	4.8	MR	3.0	R
38	CMH 08-292 (C)	1.5	5.0	3.3	MR	1.0	5.5	2.5	3.0	R	5.0	MR
39	BIO 9544 (C)	1.0	1.0	1.0	R	3.0	5.0	3.5	3.8	MR	3.0	R
40	DHM 121 (BH 41009) (C)	2.0	3.0	2.5	R	6.0	4.5	3.0	4.5	MR	5.0	MR
41	Sus. Check	3.5	-	3.5	MR	7.0	7.5	8.0	7.5	S	8.0	S
42	Local Check	3.5	-	-	-	-	-	6.5	6.5	MS	-	-

Contd.

Susceptible Check:- MLB:- DKC 7074 **(DHAULAKUAN);** CM 600 **(DELHI, KARNAL, LUDHIANA);** CML186 **(DHOLI)**

Table-3 (62 A)

Turcium leaf blight score (1-9)									
		NHZ				PZ			
S.No	Genotype	ALMO	BAJA	Av. Score	Reaction	MAND	DHAR	Av. Score	Reaction
1	OMH 14-18(CAH 1519)	7.0	2.0	4.5	MR	3.0	2.0	2.5	R
2	DH-291	8.0	2.5	5.3	MS	4.5	9.0	6.8	MS
3	GH-150141(CAH1441)	5.0	2.5	3.8	MR	5.0	3.0	4.0	MR
4	WH-2002	5.0	3.5	4.3	MR	5.0	5.0	5.0	MR
5	MM9222	1.0	2.0	1.5	R	6.5	4.3	5.4	MS
6	BLH 112	5.0	2.5	3.8	MR	3.0	4.5	3.8	MR
7	VaMH 14020	1.0	2.5	1.8	R	1.5	1.5	1.5	R
8	BLH 113	5.0	2.5	3.8	MR	4.0	3.5	3.8	MR
9	DH-303	5.0	2.5	3.8	MR	4.0	4.5	4.3	MR
10	UDMH-128	5.0	4.5	4.8	MR	7.5	5.5	6.5	MS
11	IQ8319	5.0	2.0	3.5	MR	4.0	4.0	4.0	MR
12	GH-150114(CAH1414)	1.0	2.0	1.5	R	2.0	1.5	1.8	R
13	IMHBG-2016-2	1.0	3.0	2.0	R	1.5	2.0	1.8	R
14	Kranthi	5.0	3.0	4.0	MR	5.0	3.5	4.3	MR
15	JKMH 4157	1.0	3.0	2.0	R	3.5	3.0	3.3	MR
16	BLH 111	7.0	2.5	4.8	MR	4.5	6.0	5.3	MS
17	KMH-14-37	9.0	5.5	7.3	S	8.0	9.0	8.5	S
18	IQ8712	1.0	2.0	1.5	R	1.0	2.5	1.8	R
19	IIMRNH 2016-1	1.0	2.0	1.5	R	2.0	2.0	2.0	R
20	WH-1003	1.0	3.5	2.3	R	3.5	5.5	4.5	MR
21	IQ8627	1.0	2.0	1.5	R	3.0	5.0	4.0	MR
22	OMH 14-30(CAH 1514)	1.0	2.5	1.8	R	4.5	3.5	4.0	MR

Contd.

Table-3 (62 A)

		Turcium leaf blight score (1-9)							
		NHZ				PZ			
S.No	Genotype	ALMO	BAJA	Av. Score	Reaction	MAND	DHAR	Av. Score	Reaction
23	UDMH-129	5.0	4.0	4.5	MR	4.5	5.0	4.8	MR
24	KMH-14-73	5.0	5.5	5.3	MS	7.5	7.0	7.3	S
25	GOLD-1155	1.0	2.0	1.5	R	1.5	4.0	2.8	R
26	Gagan	5.0	3.5	4.3	MR	5.0	9.0	7.0	MS
27	IMHBG-2016-4	1.0	2.5	1.8	R	1.5	1.5	1.5	R
28	IQ7802	5.0	3.0	4.0	MR	4.0	2.5	3.3	MR
29	FCH-11267	1.0	3.0	2.0	R	5.0	6.5	5.8	MS
30	JKMH 1414	1.0	3.5	2.3	R	5.5	7.8	6.6	MS
31	IMHBG-2016-1	5.0	3.5	4.3	MR	4.5	4.0	4.3	MR
32	WH-2006	1.0	2.5	1.8	R	5.5	4.5	5.0	MR
33	IMHBG-2016-5	1.0	2.5	1.8	R	3.5	3.0	3.3	MR
34	IMHBG-2016-6	1.0	3.5	2.3	R	1.5	1.5	1.5	R
35	GH-150125(CAH1525)	1.0	2.5	1.8	R	3.5	1.5	2.5	R
36	DH-302	1.0	2.0	1.5	R	3.5	5.0	4.3	MR
37	CMH 08-292 (C)	1.0	3.0	2.0	R	1.5	2.0	1.8	R
38	BIO 9544 (C)	1.0	2.0	1.5	R	3.0	3.0	3.0	R
39	DHM 121 (C)	5.0	2.0	3.5	MR	2.0	3.0	2.5	R
40	Res. Check	-	-	-	-	3.5	9.0	6.3	MS
41	Sus. Check	-	8.0	8.0	S	7.0	3.0	5.0	MR
42	Local Check	-	7.0	7.0	MS	-	-	-	-

Contd.

Resistant Check:- TLB:- NAH 2049 **(MANDYA);** CI 4 **(DHARWAD)**

Susceptible Check:- TLB:- CM 202 **(BAJAURA, MANDYA, DHARWAD)**

Table-4 (62 B)

		Turcium leaf blight score (1-9)							
		NHZ				PZ			
S.No	Genotype	ALMO	BAJA	Av. Score	Reaction	MAND	DHAR	Av. Score	Reaction
1	LMH 616	1.0	3.5	2.3	R	3.0	2.5	2.8	R
2	IMH 1607	5.0	3.5	4.3	MR	5.0	5.5	5.3	MS
3	IMH 1606	1.0	2.5	1.8	R	3.0	4.0	3.5	MR
4	IMH 1526	1.0	2.0	1.5	R	2.0	7.0	4.5	MR
5	HKH 354	1.0	3.5	2.3	R	2.0	6.0	4.0	MR
6	IMH 1609	5.0	3.5	4.3	MR	6.0	8.3	7.1	S
7	DMRH 1419	5.0	2.0	3.5	MR	5.0	5.5	5.3	MS
8	LMH 916	5.0	3.0	4.0	MR	2.0	4.0	3.0	R
9	LMH 816	1.0	3.0	2.0	R	4.0	4.5	4.3	MR
10	IMH 1604	5.0	2.0	3.5	MR	3.5	7.0	5.3	MS
11	MH 23	5.0	3.0	4.0	MR	2.5	6.5	4.5	MR
12	IMH 1605	1.0	3.0	2.0	R	6.5	8.0	7.3	S
13	LMH 1116	1.0	3.0	2.0	R	2.5	2.0	2.3	R
14	IMH 1608	1.0	3.0	2.0	R	6.5	8.0	7.3	S
15	EH-2906	1.0	3.0	2.0	R	1.5	4.0	2.8	R
16	LMH 716	1.0	2.5	1.8	R	2.5	5.0	3.8	MR
17	VEH-16-1	1.0	2.0	1.5	R	2.5	5.5	4.0	MR
18	IMH 1601	5.0	3.5	4.3	MR	6.0	6.0	6.0	MS
19	HKH 355	6.0	3.0	4.5	MR	3.5	4.0	3.8	MR
20	MMH 1403	1.0	2.5	1.8	R	1.5	5.5	3.5	MR
21	HKH 356	5.0	2.5	3.8	MR	2.5	4.0	3.3	MR
22	KH-2001 Gold	5.0	3.0	4.0	MR	2.5	9.0	5.8	MS
23	IMH 1602	1.0	2.5	1.8	R	1.5	3.3	2.4	R
24	BH 414176	1.0	4.5	2.8	R	3.0	5.0	4.0	MR
25	CCH 9999	5.0	2.5	3.8	MR	5.5	9.0	7.3	S

Contd.

Table-4 (62 B)

		Turcium leaf blight score (1-9)							
		NHZ				PZ			
S.No	Genotype	ALMO	BAJA	Av. Score	Reaction	MAND	DHAR	Av. Score	Reaction
26	LMH 1216	5.0	2.5	3.8	MR	1.5	3.0	2.3	R
27	DMRH 1410	1.0	3.0	2.0	R	5.0	9.0	7.0	MS
28	BH 414351	5.0	4.5	4.8	MR	2.0	6.0	4.0	MR
29	HKH 353	1.0	2.0	1.5	R	4.5	8.0	6.3	MS
30	LMH 1016	1.0	2.5	1.8	R	2.0	4.0	3.0	R
31	INDAM-1122	1.0	3.0	2.0	R	1.5	4.5	3.0	R
32	IMH 1603	1.0	3.5	2.3	R	4.0	6.0	5.0	MR
33	DAS-MH-310	1.0	3.0	2.0	R	3.0	2.0	2.5	R
34	IMH 1527	1.0	3.0	2.0	R	2.5	7.5	5.0	MR
35	IMH 1533	1.0	2.0	1.5	R	3.5	8.0	5.8	MS
36	AH-7080	1.0	3.0	2.0	R	3.5	7.5	5.5	MS
37	MH 24	1.0	2.0	1.5	R	4.0	9.0	6.5	MS
38	CMH 08-292 (C)	1.0	2.0	1.5	R	2.0	6.0	4.0	MR
39	BIO 9544 (C)	1.0	2.0	1.5	R	3.0	6.0	4.5	MR
40	DHM 121 (BH 41009) (C)	1.0	2.0	1.5	R	2.5	4.0	3.3	MR
41	Res. Check	-	-	-	-	2.5	4.0	3.3	MR
42	Sus. Check	-	7.5	7.5	S	6.5	9.0	7.8	S
43	Local Check	-	7.0	7.0	MS	-	-	-	-

Contd.

Resistant Check:- TLB:- NAH 2049 **(MANDYA);** CI 4 **(DHARWAD)**

Susceptible Check:- TLB:- CM 202 **(BAJAURA, MANDYA, DHARWAD)**

Table-3 (62 A)

Banded leaf and sheath blight score (1-9)								
		NWPZ					NHZ	
S.No	Genotype	PANT	KARN	DELH	Av. Score	Reaction	DHAU*	Reaction
1	OMH 14-18(CAH 1519)	7.3	5.5	4.0	5.6	MS	2.0	R
2	DH-291	7.5	6.0	5.0	6.2	MS	1.0	R
3	GH-150141(CAH1441)	8.5	5.0	4.0	5.8	MS	1.5	R
4	WH-2002	9.0	5.5	5.0	6.5	MS	1.5	R
5	MM9222	6.0	4.5	4.0	4.8	MR	2.5	R
6	BLH 112	9.0	6.0	6.0	7.0	MS	3.5	MR
7	VaMH 14020	7.5	4.0	4.0	5.2	MS	3.0	R
8	BLH 113	8.0	4.5	6.0	6.2	MS	2.5	R
9	DH-303	9.0	5.5	5.0	6.5	MS	3.0	R
10	UDMH-128	9.0	5.0	5.0	6.3	MS	2.0	R
11	IQ8319	8.5	4.5	6.0	6.3	MS	3.5	MR
12	GH-150114(CAH1414)	7.8	5.0	3.0	5.3	MS	4.5	MR
13	IMHBG-2016-2	7.5	5.0	5.0	5.8	MS	3.0	R
14	Kranthi	6.5	4.5	3.0	4.7	MR	4.0	MR
15	JKMH 4157	7.5	5.0	4.0	5.5	MS	3.0	R
16	BLH 111	7.8	5.5	7.0	6.8	MS	4.0	MR
17	KMH-14-37	8.5	6.5	5.0	6.7	MS	2.5	R
18	IQ8712	7.0	7.0	7.0	7.0	MS	1.0	R
19	IIMRNH 2016-1	7.5	4.5	7.0	6.3	MS	2.5	R
20	WH-1003	8.5	4.5	6.0	6.3	MS	2.0	R
21	IQ8627	7.8	5.0	6.0	6.3	MS	3.5	MR
22	OMH 14-30(CAH 1514)	8.5	5.0	6.0	6.5	MS	4.5	MR

Contd.

Table-3 (62 A)

Banded leaf and sheath blight score (1-9)								
		NWPZ					NHZ	
S.No	Genotype	PANT	KARN	DELH	Av. Score	Reaction	DHAU*	Reaction
23	UDMH-129	9.0	6.0	4.0	6.3	MS	4.5	MR
24	KMH-14-73	8.3	5.5	5.0	6.3	MS	2.5	R
25	GOLD-1155	8.0	6.5	6.0	6.8	MS	2.0	R
26	Gagan	7.8	7.0	4.0	6.3	MS	2.0	R
27	IMHBG-2016-4	7.5	5.0	7.0	6.5	MS	3.5	MR
28	IQ7802	8.8	4.0	5.0	5.9	MS	3.0	R
29	FCH-11267	7.8	4.5	6.0	6.1	MS	3.0	R
30	JKMH 1414	7.3	5.0	6.0	6.1	MS	3.0	R
31	IMHBG-2016-1	7.3	5.0	5.0	5.8	MS	2.5	R
32	WH-2006	9.0	5.5	6.0	6.8	MS	2.5	R
33	IMHBG-2016-5	7.5	3.0	3.0	4.5	MR	3.0	R
34	IMHBG-2016-6	7.5	4.5	4.0	5.3	MS	1.5	R
35	GH-150125(CAH1525)	7.5	5.0	3.0	5.2	MS	1.5	R
36	DH-302	8.5	4.0	8.0	6.8	MS	2.0	R
37	CMH 08-292 (C)	7.5	5.5	5.0	6.0	MS	4.0	MR
38	BIO 9544 (C)	8.3	5.0	5.0	6.1	MS	3.0	R
39	DHM 121 (C)	6.8	4.5	7.0	6.1	MS	3.0	R
40	Sus. Check	9.0	7.5	8.0	8.2	S	4.0	MR
41	Local Check	-	-	-	-	-	4.0	MR

*Data not considered due to low disease pressure

Contd.

Susceptible Check:- BLSB:- CM 600 **(PANTNAGAR, KRANAL);** CM 501 **(DELHI);** DKC 7074 **(DHAULKUAN)**

Table-4 (62 B)

Banded leaf and sheath blight score (1-9)										
		NWPZ					NHZ			
S.No	Genotype	PANT	KARN	DELH	Av. Score	Reaction	DHAU*	ALMO	Av. Score	Reaction
1	LMH 616	8.5	3.5	6.0	6.0	MS	3.0	-	3.0	R
2	IMH 1607	8.0	4.5	6.0	6.2	MS	2.5	-	2.5	R
3	IMH 1606	9.0	6.5	5.0	6.8	MS	1.5	-	1.5	R
4	IMH 1526	8.5	6.0	6.0	6.8	MS	1.0	-	1.0	R
5	HKH 354	8.5	5.5	5.0	6.3	MS	2.5	1.0	1.8	R
6	IMH 1609	8.8	5.0	6.0	6.6	MS	2.5	3.0	2.8	R
7	DMRH 1419	8.3	7.0	8.0	7.8	S	1.0	1.0	1.0	R
8	LMH 916	9.0	6.0	5.0	6.7	MS	2.0	-	2.0	R
9	LMH 816	8.3	6.0	7.0	7.1	S	1.5	-	1.5	R
10	IMH 1604	8.3	5.5	6.0	6.6	MS	1.5	3.0	2.3	R
11	MH 23	7.8	7.0	8.0	7.6	S	2.0	3.0	2.5	R
12	IMH 1605	8.5	6.5	7.0	7.3	S	2.0	-	2.0	R
13	LMH 1116	8.3	6.0	7.0	7.1	S	1.5	-	1.5	R
14	IMH 1608	8.8	5.5	8.0	7.4	S	3.0	-	3.0	R
15	EH-2906	7.3	6.0	8.0	7.1	S	2.5	-	2.5	R
16	LMH 716	8.0	6.5	7.0	7.2	S	1.5	-	1.5	R
17	VEH-16-1	9.0	4.5	8.0	7.2	S	1.0	-	1.0	R
18	IMH 1601	7.5	5.5	8.0	7.0	MS	2.0	1.0	1.5	R
19	HKH 355	9.0	5.5	8.0	7.5	S	2.5	-	2.5	R
20	MMH 1403	8.5	6.5	8.0	7.7	S	1.5	-	1.5	R
21	HKH 356	9.0	5.5	7.0	7.2	S	2.5	-	2.5	R
22	KH-2001 Gold	8.8	6.0	7.0	7.3	S	1.0	3.0	2.0	R
23	IMH 1602	8.3	6.0	8.0	7.4	S	1.5	-	1.5	R
24	BH 414176	9.0	6.0	6.0	7.0	MS	1.5	-	1.5	R
25	CCH 9999	9.5	5.0	7.0	7.2	S	2.0	-	2.0	R

Contd.

Table-4 (62 B)

Banded leaf and sheath blight score (1-9)										
		NWPZ					NHZ			
S.No	Genotype	PANT	KARN	DELH	Av. Score	Reaction	DHAU*	ALMO	Av. Score	Reaction
26	LMH 1216	7.3	5.5	7.0	6.6	MS	2.5	-	2.5	R
27	DMRH 1410	8.5	5.5	6.0	6.7	MS	1.5	-	1.5	R
28	BH 414351	8.5	6.0	6.0	6.8	MS	1.0	-	1.0	R
29	HKH 353	9.0	4.5	8.0	7.2	S	1.5	-	1.5	R
30	LMH 1016	7.3	4.5	5.0	5.6	MS	1.0	-	1.0	R
31	INDAM-1122	8.0	4.0	7.0	6.3	MS	1.5	-	1.5	R
32	IMH 1603	8.5	5.0	6.0	6.5	MS	1.0	-	1.0	R
33	DAS-MH-310	8.3	6.0	8.0	7.4	S	2.0	-	2.0	R
34	IMH 1527	9.0	7.0	8.0	8.0	S	1.5	-	1.5	R
35	IMH 1533	9.0	5.0	8.0	7.3	S	3.0	-	3.0	R
36	AH-7080	8.3	6.0	8.0	7.4	S	4.5	-	4.5	MR
37	MH 24	8.3	6.0	8.0	7.4	S	2.5	-	2.5	R
38	CMH 08-292 (C)	8.8	5.0	6.0	6.6	MS	2.0	-	2.0	R
39	BIO 9544 (C)	8.5	5.0	8.0	7.2	S	2.5	-	2.5	R
40	DHM 121 (BH 41009) (C)	9.5	5.0	6.0	6.8	MS	3.0	-	3.0	R
41	Sus. Check	9.0	7.5	8.0	8.2	S	7.5	-	3.5	MR
42	Local Check	-	-	-	-	-	6.5	-	3.0	R

*Data not considered due to low disease pressure

Contd.

Susceptible Check:- BLSB:- CM 600 **(PANTNAGAR, KRANAL);** CM 501 **(DELHI);** DKC 7074 **(DHAULAKUAN)**

Table-3 (62 A)

		Charcoal rot score (1-9)						FSR (1-9)	
		NWPZ		PZ				CWZ	
S.No	Genotype	LUDH	Reaction	HYDE	COIM	Av. Score	Reaction	UDAI	Reaction
1	OMH 14-18(CAH 1519)	5.2	MS	2.3	5.1	3.7	MR	4.2	MR
2	DH-291	7.3	S	3.2	2.8	3.0	R	4.6	MR
3	GH-150141(CAH1441)	7.0	MS	3.0	1.3	2.1	R	3.9	MR
4	WH-2002	8.6	S	2.8	2.8	2.8	R	6.7	MS
5	MM9222	4.7	MR	3.0	2.3	2.6	R	4.1	MR
6	BLH 112	5.8	MS	3.1	4.1	3.6	MR	6.3	MS
7	VaMH 14020	5.1	MS	3.0	1.0	2.0	R	5.5	MS
8	BLH 113	7.0	MS	2.8	2.4	2.6	R	5.7	MS
9	DH-303	7.1	S	3.4	1.2	2.3	R	5.3	MS
10	UDMH-128	7.6	S	2.7	1.3	2.0	R	4.5	MR
11	IQ8319	4.8	MR	2.5	3.2	2.8	R	4.2	MR
12	GH-150114(CAH1414)	7.6	S	2.7	1.1	1.9	R	5.2	MS
13	IMHBG-2016-2	4.3	MR	3.1	3.9	3.5	MR	3.4	MR
14	Kranthi	6.2	MS	3.2	3.4	3.3	MR	5.1	MS
15	JKMH 4157	4.6	MR	3.9	4.0	3.9	MR	4.2	MR
16	BLH 111	5.0	MR	2.2	2.4	2.3	R	6.2	MS
17	KMH-14-37	7.0	MS	3.7	2.4	3.0	R	4.8	MR
18	IQ8712	4.4	MR	3.1	2.3	2.7	R	4.6	MR
19	IIMRNH 2016-1	7.1	S	2.8	4.9	3.8	MR	5.3	MS
20	WH-1003	7.4	S	2.8	1.3	2.0	R	5.2	MS
21	IQ8627	6.7	MS	3.8	1.7	2.7	R	4.7	MR
22	OMH 14-30(CAH 1514)	7.2	S	3.2	3.3	3.3	MR	3.5	MR

Contd.

Table-3 (62 A)

		Charcoal rot score (1-9)						FSR (1-9)	
		NWPZ		PZ				CWZ	
S.No	Genotype	LUDH	Reaction	HYDE	COIM	Av. Score	Reaction	UDAI	Reaction
23	UDMH-129	7.3	S	2.5	1.0	1.7	R	4.8	MR
24	KMH-14-73	7.1	S	3.4	7.9	5.6	MS	3.4	MR
25	GOLD-1155	5.8	MS	3.8	3.0	3.4	MR	5.2	MS
26	Gagan	6.6	MS	1.4	1.2	1.3	R	3.2	MR
27	IMHBG-2016-4	4.3	MR	2.9	2.3	2.6	R	3.9	MR
28	IQ7802	6.4	MS	4.1	6.9	5.5	MS	4.2	MR
29	FCH-11267	3.4	MR	3.3	2.8	3.0	R	5.6	MS
30	JKMH 1414	5.3	MS	3.7	5.5	4.6	MR	5.3	MS
31	IMHBG-2016-1	7.4	S	4.0	6.3	5.1	MS	5.5	MS
32	WH-2006	6.6	MS	3.0	5.0	4.0	MR	5.0	MR
33	IMHBG-2016-5	8.1	S	2.9	1.0	2.0	R	4.3	MR
34	IMHBG-2016-6	4.9	MR	2.7	3.9	3.3	MR	3.4	MR
35	GH-150125(CAH1525)	7.0	MS	2.3	3.4	2.8	R	5.2	MS
36	DH-302	6.7	MS	2.9	4.4	3.7	MR	4.1	MR
37	CMH 08-292 (C)	5.8	MS	3.2	7.8	5.5	MS	3.9	MR
38	BIO 9544 (C)	5.1	MS	3.1	2.0	2.5	R	3.0	R
39	DHM 121 (C)	5.9	MS	2.6	7.3	4.9	MR	5.4	MS
40	Res. Check	-	-	-	1.0	1.0	R	1.5	R
41	Sus. Check	7.5	S	6.7	9.0	7.9	S	8.6	S
42	Local Check	6.4	MS	-	-	-	-	-	-

Contd.

Resistant Check:- C. ROT:- CoH 6 **(COIMBATORE);** DMH 117 **(UDAIPUR)**

Susceptible Check:- C. ROT:- CM 600 **(LUDHIANA);** BML 6 **(HYDERABAD);** CM 501 **(COIMBATORE);** SURYA **(UDAIPUR)**

Table-4 (62 B)

		Charcoal rot score (1-9)						FSR (1-9)	
		NWPZ		PZ				CWZ	
S.No	Genotype	LUDH	Reaction	HYDE	COIM	Av. Score	Reaction	UDAI	Reaction
1	LMH 616	4.5	MR	2.9	1.2	2.1	R	2.4	R
2	IMH 1607	7.7	S	3.5	1.0	2.2	R	3.4	MR
3	IMH 1606	7.1	S	3.4	2.3	2.9	R	3.3	MR
4	IMH 1526	6.1	MS	2.6	2.7	2.7	R	4.4	MR
5	HKH 354	8.3	S	2.9	1.2	2.0	R	3.6	MR
6	IMH 1609	6.7	MS	2.4	3.0	2.7	R	4.9	MR
7	DMRH 1419	4.5	MR	3.3	9.0	6.2	MS	3.2	MR
8	LMH 916	5.4	MS	3.9	3.7	3.8	MR	4.5	MR
9	LMH 816	4.5	MR	3.0	5.0	4.0	MR	4.0	MR
10	IMH 1604	7.3	S	3.0	2.1	2.6	R	4.4	MR
11	MH 23	6.4	MS	2.3	3.8	3.1	MR	4.6	MR
12	IMH 1605	8.0	S	3.4	2.4	2.9	R	3.9	MR
13	LMH 1116	5.9	MS	3.7	1.2	2.4	R	4.3	MR
14	IMH 1608	6.0	MS	3.3	1.9	2.6	R	4.0	MR
15	EH-2906	6.3	MS	2.2	1.1	1.6	R	5.1	MS
16	LMH 716	5.4	MS	2.7	1.8	2.3	R	4.7	MR
17	VEH-16-1	5.2	MS	3.3	1.6	2.4	R	4.6	MR
18	IMH 1601	6.1	MS	3.3	1.1	2.2	R	4.1	MR
19	HKH 355	7.4	S	3.1	2.4	2.7	R	3.9	MR
20	MMH 1403	4.6	MR	2.9	1.6	2.2	R	5.7	MS
21	HKH 356	5.9	MS	3.3	2.9	3.1	MR	4.8	MR
22	KH-2001 Gold	5.7	MS	3.2	5.0	4.1	MR	3.9	MR
23	IMH 1602	7.7	S	2.9	3.4	3.2	MR	2.8	R
24	BH 414176	5.6	MS	3.3	1.3	2.3	R	3.5	MR
25	CCH 9999	7.1	S	3.8	2.6	3.2	MR	3.9	MR

Contd.

Table-4 (62 B)

		Charcoal rot score (1-9)						FSR (1-9)	
		NWPZ		PZ				CWZ	
S.No	Genotype	LUDH	Reaction	HYDE	COIM	Av. Score	Reaction	UDAI	Reaction
26	LMH 1216	4.1	MR	2.4	3.5	3.0	R	3.9	MR
27	DMRH 1410	5.2	MS	3.4	4.0	3.7	MR	3.1	MR
28	BH 414351	5.6	MS	2.4	8.4	5.4	MS	5.1	MS
29	HKH 353	6.9	MS	2.9	5.9	4.4	MR	3.9	MR
30	LMH 1016	4.3	MR	3.1	1.6	2.4	R	2.8	R
31	INDAM-1122	5.1	MS	3.5	1.3	2.4	R	5.4	MS
32	IMH 1603	6.3	MS	3.3	2.8	3.0	R	5.1	MS
33	DAS-MH-310	5.8	MS	3.1	3.2	3.2	MR	4.8	MR
34	IMH 1527	6.5	MS	4.3	2.6	3.4	MR	3.5	MR
35	IMH 1533	7.0	MS	3.4	2.9	3.1	MR	3.6	MR
36	AH-7080	5.1	MS	4.0	3.4	3.7	MR	5.1	MS
37	MH 24	6.6	MS	4.1	7.5	5.8	MS	5.0	MR
38	CMH 08-292 (C)	2.8	R	2.1	1.2	1.7	R	4.2	MR
39	BIO 9544 (C)	6.2	MS	2.7	7.6	5.1	MS	3.9	MR
40	DHM 121 (BH 41009) (C)	4.5	MR	2.4	1.3	1.8	R	5.4	MS
41	Res. Check	-	-	-	1.0	1.0	R	1.5	R
42	Sus. Check	7.4	S	6.7	7.9	7.3	S	8.5	S
43	Local Check	6.5	MS	-	-	-	-	-	-

Contd.

Resistant Check:- C. ROT:- CoH 6 **(COIMBATORE); FSR:-** DMH 117 **(UDAIPUR)**

Susceptible Check:- C.ROT:- CM 600**(LUDHIANA);** BML 6 **(HYDERABAD);** CM 501 **(COIMBATORE); FSR:-** SURYA **(UDAIPUR)**

Table-3 (62 A)

		C. Rust (1-9)		RDM (%)		SDM (%)		
		PZ		CWZ		PZ		
S.No	Genotype	DHAR	Reaction	UDAI	Reaction	MAND	COIM*	Reaction
1	OMH 14-18(CAH 1519)	2.0	R	30.0	MS	87.2	0.0	S
2	DH-291	6.0	MS	8.0	R	97.6	25.0	S
3	GH-150141(CAH1441)	2.5	MR	0.0	R	91.7	13.6	S
4	WH-2002	5.0	MS	33.0	MS	95.2	0.0	S
5	MM9222	4.5	MS	29.0	MS	43.0	0.0	MS
6	BLH 112	7.5	S	27.0	MS	98.1	11.1	S
7	VaMH 14020	3.0	MR	0.0	R	72.0	6.3	S
8	BLH 113	2.5	MR	10.0	R	83.8	5.0	S
9	DH-303	3.0	MR	29.0	MS	97.9	27.3	S
10	UDMH-128	5.5	MS	0.0	R	100.0	0.0	S
11	IQ8319	1.5	R	10.0	R	50.1	0.0	S
12	GH-150114(CAH1414)	1.5	R	33.0	MS	98.1	61.1	S
13	IMHBG-2016-2	1.5	R	0.0	R	70.0	35.0	S
14	Kranthi	2.0	R	0.0	R	66.2	21.4	S
15	JKMH 4157	3.0	MR	0.0	R	71.9	10.0	S
16	BLH 111	6.5	S	40.0	MS	98.2	16.7	S
17	KMH-14-37	5.5	MS	25.0	MR	88.1	25.0	S
18	IQ8712	2.0	R	27.0	MS	42.0	0.0	MS
19	IIMRNH 2016-1	2.5	MR	7.0	R	94.0	0.0	S
20	WH-1003	6.0	MS	0.0	R	97.9	54.7	S
21	IQ8627	2.5	MR	12.5	MR	24.1	31.3	MR
22	OMH 14-30(CAH 1514)	5.3	MS	0.0	R	97.2	0.0	S

Contd.

Table-3 (62 A)

		C. Rust (1-9)		RDM (%)		SDM (%)		
		PZ		CWZ		PZ		
S.No	Genotype	DHAR	Reaction	UDAI	Reaction	MAND	COIM*	Reaction
23	UDMH-129	4.0	MR	6.0	R	100.0	65.0	S
24	KMH-14-73	6.5	S	14.0	MR	90.5	44.4	S
25	GOLD-1155	2.0	R	20.0	MR	72.9	20.0	S
26	Gagan	7.5	S	14.0	MR	95.2	8.3	S
27	IMHBG-2016-4	1.5	R	7.0	R	37.4	35.0	MS
28	IQ7802	4.5	MS	0.0	R	97.7	27.3	S
29	FCH-11267	2.0	R	9.0	R	100.0	0.0	S
30	JKMH 1414	2.0	R	13.0	MR	68.5	35.0	S
31	IMHBG-2016-1	2.5	MR	0.0	R	100.0	10.0	S
32	WH-2006	1.5	R	27.0	MS	100.0	30.0	S
33	IMHBG-2016-5	5.0	MS	0.0	R	97.9	10.0	S
34	IMHBG-2016-6	1.5	R	7.0	R	72.4	0.0	S
35	GH-150125(CAH1525)	1.5	R	14.0	MR	40.8	0.0	MS
36	DH-302	3.0	MR	27.0	MS	100.0	50.0	S
37	CMH 08-292 (C)	7.5	S	0.0	R	71.6	0.0	S
38	BIO 9544 (C)	2.0	R	23.0	MR	52.2	7.1	S
39	DHM 121 (C)	4.5	MS	6.0	R	96.6	30.0	S
40	Res. Check	4.0	MR	10.0	R	11.8	0.0	MR
41	Sus. Check	8.0	S	92.0	S	100.0	0.0	S

*Data not considered due erratic disease pressure

Contd.

Resistant Check:- C. RUST:- CI 4 **(DHARWAD); RDM:-** DHM 117 **(UDAIPUR); SDM:-** NAH 1137 **(MANDYA)**

Susceptible Check:- C. RUST:- CM 202 **(DHARWAD); RDM:-** SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA)**

Table-4 (62 B)

		C. Rust (1-9)		RDM (%)		SDM (%)		
		PZ		CWZ		PZ		
S.No	Genotype	DHAR	Reaction	UDAI	Reaction	MAND	COIM*	Reaction
1	LMH 616	5.5	MS	16.0	MR	87.0	85.0	S
2	IMH 1607	4.0	MR	7.0	R	94.7	0.0	S
3	IMH 1606	4.0	MR	0.0	R	80.0	25.0	S
4	IMH 1526	7.0	S	0.0	R	100.0	100.0	S
5	HKH 354	6.0	MS	0.0	R	100.0	12.5	S
6	IMH 1609	6.5	S	16.0	MR	100.0	10.0	S
7	DMRH 1419	5.0	MS	11.0	MR	94.1	8.3	S
8	LMH 916	4.0	MR	37.0	MS	95.9	0.0	S
9	LMH 816	4.5	MS	8.0	R	87.3	15.0	S
10	IMH 1604	2.0	R	0.0	R	97.5	35.0	S
11	MH 23	9.0	S	0.0	R	93.2	4.6	S
12	IMH 1605	4.0	MR	0.0	R	98.2	0.0	S
13	LMH 1116	1.5	R	33.0	MS	96.9	47.9	S
14	IMH 1608	4.0	MR	14.0	MR	100.0	7.7	S
15	EH-2906	7.5	S	0.0	R	97.1	51.4	S
16	LMH 716	7.5	S	38.0	MS	78.4	12.5	S
17	VEH-16-1	4.5	MS	0.0	R	90.2	3.6	S
18	IMH 1601	5.5	MS	25.0	MR	100.0	50.0	S
19	HKH 355	5.0	MS	0.0	R	100.0	25.0	S
20	MMH 1403	5.0	MS	16.0	MR	70.7	34.6	S
21	HKH 356	6.5	S	20.0	MR	94.7	50.0	S
22	KH-2001 Gold	5.5	MS	0.0	R	97.1	5.0	S
23	IMH 1602	3.0	MR	0.0	R	100.0	50.0	S
24	BH 414176	6.0	MS	0.0	R	98.2	31.3	S
25	CCH 9999	6.0	MS	0.0	R	100.0	59.1	S

Contd.

Table-4 (62 B)

		C. Rust (1-9)		RDM (%)		SDM (%)		
		PZ		CWZ		PZ		
S.No	Genotype	DHAR	Reaction	UDAI	Reaction	MAND	COIM*	Reaction
26	LMH 1216	4.0	MR	0.0	R	66.0	4.2	S
27	DMRH 1410	4.0	MR	0.0	R	94.4	0.0	S
28	BH 414351	4.0	MR	20.0	MR	79.6	5.0	S
29	HKH 353	6.5	S	43.0	MS	100.0	10.0	S
30	LMH 1016	6.0	MS	20.0	MR	91.3	0.0	S
31	INDAM-1122	6.5	S	0.0	R	95.0	60.0	S
32	IMH 1603	6.0	MS	0.0	R	100.0	73.1	S
33	DAS-MH-310	1.5	R	18.0	MR	100.0	10.8	S
34	IMH 1527	8.5	S	18.0	MR	94.8	0.0	S
35	IMH 1533	7.3	S	0.0	R	87.1	16.7	S
36	AH-7080	5.8	MS	10.0	R	92.9	0.0	S
37	MH 24	2.5	MR	8.0	R	100.0	13.6	S
38	CMH 08-292 (C)	5.0	MS	0.0	R	76.0	5.6	S
39	BIO 9544 (C)	4.0	MR	11.0	MR	24.3	36.8	MR
40	DHM 121 (BH 41009) (C)	2.0	R	30.0	MS	98.1	38.9	S
41	Res. Check	4.0	MR	10.0	R	12.8	0.0	MR
42	Sus. Check	8.0	S	90.0	S	90.0	10.0	S

*Data not considered due erratic disease pressure

Contd.

Resistant Check:- C. RUST:- CI 4 **(DHARWAD); RDM:-** DHM 117 **(UDAIPUR); SDM:-** NAH 1137 **(MANDYA)**

Susceptible Check:- C. RUST:- CM 202 **(DHARWAD); RDM:-** SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA)**

Table-3 (62 A)

		BSR (%)				CLS (1-9)				Cyst nematode	
		NWPZ		NHZ		CWZ		NHZ		CWZ	
S.No	Genotype	PANT	Reaction	DHAU	Reaction	UDAI	Reaction	DHAU	Reaction	UDAI	Reaction
1	OMH 14-18(CAH 1519)	40.8	MS	29.1	MS	5.0	MR	1.0	R	5--9	MR
2	DH-291	19.5	MR	25.0	MR	1.5	R	1.0	R	16--22	S
3	GH-150141(CAH1441)	54.8	S	35.4	MS	5.5	MS	2.0	R	17--24	S
4	WH-2002	95.0	S	42.1	MS	6.5	MS	2.0	R	28--38	S
5	MM9222	48.1	MS	32.9	MS	6.0	MS	1.0	R	6--12	S
6	BLH 112	37.5	MS	25.7	MS	6.5	MS	1.0	R	10--18	S
7	VaMH 14020	54.2	S	33.3	MS	4.0	MR	1.0	R	18--23	S
8	BLH 113	6.3	R	39.7	MS	6.5	MS	1.0	R	29--36	S
9	DH-303	17.4	MR	29.8	MS	3.0	R	1.5	R	20--24	S
10	UDMH-128	90.0	S	42.9	MS	7.0	MS	2.5	R	31--42	S
11	IQ8319	6.9	R	33.9	MS	2.0	R	1.0	R	26--33	S
12	GH-150114(CAH1414)	36.7	MS	40.8	MS	2.5	R	1.0	R	20--26	S
13	IMHBG-2016-2	0.0	R	42.8	MS	4.5	MR	1.0	R	9--16	S
14	Kranthi	20.5	MR	33.1	MS	4.0	MR	2.0	R	12--18	S
15	JKMH 4157	27.5	MS	48.8	MS	6.5	MS	2.0	R	18--26	S
16	BLH 111	26.1	MS	25.2	MS	6.5	MS	2.0	R	23--33	S
17	KMH-14-37	64.1	S	34.1	MS	6.5	MS	1.5	R	21--30	S
18	IQ8712	25.8	MS	38.2	MS	6.5	MS	1.5	R	20--25	S
19	IIMRNH 2016-1	44.5	MS	24.3	MR	4.5	MR	1.0	R	13--21	S
20	WH-1003	66.1	S	32.8	MS	2.5	R	1.5	R	7--12	S
21	IQ8627	14.6	MR	49.4	MS	3.0	R	1.0	R	17--24	S
22	OMH 14-30(CAH 1514)	21.1	MR	37.4	MS	6.5	MS	1.0	R	22--27	S

Contd.

Table-3 (62 A)

		BSR (%)				CLS (1-9)				Cyst nematode	
		NWPZ		NHZ		CWZ		NHZ		CWZ	
S.No	Genotype	PANT	Reaction	DHAU	Reaction	UDAI	Reaction	DHAU	Reaction	UDAI	Reaction
23	UDMH-129	68.5	S	48.1	MS	6.5	MS	2.0	R	12--16	S
24	KMH-14-73	90.9	S	45.4	MS	5.0	MR	3.0	R	25--34	S
25	GOLD-1155	8.9	R	64.4	S	1.5	R	1.0	R	13--18	S
26	Gagan	37.9	MS	36.4	MS	2.0	R	1.5	R	10--17	S
27	IMHBG-2016-4	0.0	R	39.5	MS	1.5	R	1.0	R	3--6	MR
28	IQ7802	46.4	MS	29.2	MS	6.5	MS	1.0	R	22--32	S
29	FCH-11267	72.2	S	29.0	MS	6.5	MS	1.0	R	20--28	S
30	JKMH 1414	30.0	MS	27.8	MS	2.0	R	1.0	R	8--14	S
31	IMHBG-2016-1	27.5	MS	34.9	MS	1.5	R	1.0	R	4--9	MR
32	WH-2006	80.4	S	31.8	MS	6.5	MS	1.5	R	32--44	S
33	IMHBG-2016-5	73.6	S	36.5	MS	2.0	R	2.0	R	28--35	S
34	IMHBG-2016-6	24.8	MR	34.0	MS	2.5	R	1.0	R	2--7	MR
35	GH-150125(CAH1525)	55.0	S	27.3	MS	1.5	R	1.0	R	15--20	S
36	DH-302	34.9	MS	27.6	MS	1.5	R	1.5	R	6--12	S
37	CMH 08-292 (C)	36.0	MS	26.5	MS	1.5	R	1.0	R	7--14	S
38	BIO 9544 (C)	12.9	MR	28.2	MS	2.0	R	1.0	R	2--5	MR
39	DHM 121 (C)	14.6	MR	29.0	MS	1.5	R	1.0	R	14--21	S
40	Res. Check	-	-	62.3	S	1.8	R	-	-	3--7	MR
41	Sus. Check	100.0	S	70.2	S	8.5	S	2.8	R	32--35	S
42	Local Check	-	-	-	-	-	-	2.5	R	6--10	S

Resistant Check:- Cyst Nematode:- Pratap H. Maize-3 **(UDAIPUR)**

Susceptible Check:- BSR:- CM 600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN); CLS:-** DKC 7074 **(DHAULAKUAN);**

Cyst Nematode:- Pratap Makka-3 **(UDAIPUR)**

Table-4 (62 B)

		BSR (%)				CLS (1-9)				Cyst nematode	
		NWPZ		NHZ		CWZ		NHZ		CWZ	
S.No	Genotype	PANT	Reaction	DHAU	Reaction	UDAI	Reaction	DHAU	Reaction	UDAI	Reaction
1	LMH 616	33.2	MS	21.1	MR	4.5	MR	1.0	R	4--8	MR
2	IMH 1607	60.0	S	32.7	MS	2.5	R	1.0	R	30--36	S
3	IMH 1606	50.0	MS	29.3	MS	3.0	R	1.0	R	23--30	S
4	IMH 1526	100.0	S	45.0	MS	6.5	MS	1.0	R	24--32	S
5	HKH 354	75.7	S	31.2	MS	3.5	MR	1.5	R	22--28	S
6	IMH 1609	100.0	S	44.3	MS	1.0	R	1.0	R	24--34	S
7	DMRH 1419	24.3	MR	29.2	MS	1.5	R	1.0	R	7--12	S
8	LMH 916	33.5	MS	32.1	MS	1.5	R	1.0	R	31--40	S
9	LMH 816	25.0	MR	31.9	MS	4.5	MR	1.0	R	27--35	S
10	IMH 1604	25.0	MR	21.9	MR	1.5	R	1.5	R	15--20	S
11	MH 23	48.5	MS	35.8	MS	6.5	MS	1.0	R	17--23	S
12	IMH 1605	-	-	19.8	MR	4.5	MR	1.5	R	23--33	S
13	LMH 1116	0.0	R	38.0	MS	1.5	R	1.5	R	31--43	S
14	IMH 1608	40.2	MS	38.4	MS	4.5	MR	1.5	R	32--41	S
15	EH-2906	73.3	S	25.2	MS	3.0	R	1.0	R	9--18	S
16	LMH 716	33.3	MS	36.3	MS	2.5	R	1.0	R	27--32	S
17	VEH-16-1	65.7	S	45.6	MS	1.5	R	1.0	R	30--38	S
18	IMH 1601	2.9	R	30.6	MS	1.0	R	1.0	R	31--43	S
19	HKH 355	48.3	MS	29.2	MS	1.5	R	1.0	R	15--23	S
20	MMH 1403	0.0	R	26.4	MS	1.5	R	1.0	R	20--26	S
21	HKH 356	27.5	MS	34.3	MS	2.0	R	1.0	R	24--33	S
22	KH-2001 Gold	35.4	MS	39.6	MS	1.0	R	1.0	R	10--14	S
23	IMH 1602	30.8	MS	30.2	MS	1.5	R	1.0	R	28--35	S
24	BH 414176	19.8	MR	47.5	MS	2.0	R	1.0	R	11--16	S
25	CCH 9999	70.8	S	37.4	MS	1.5	R	1.0	R	7--12	S

Contd.

Table-4 (62 B)

		BSR (%)				CLS (1-9)				Cyst nematode	
		NWPZ		NHZ		CWZ		NHZ		CWZ	
S.No	Genotype	PANT	Reaction	DHAU	Reaction	UDAI	Reaction	DHAU	Reaction	UDAI	Reaction
26	LMH 1216	0.0	R	49.7	MS	1.5	R	1.0	R	19--26	S
27	DMRH 1410	8.3	R	19.2	MR	1.5	R	1.5	R	11--17	S
28	BH 414351	34.9	MS	21.5	MR	1.0	R	1.5	R	19--24	S
29	HKH 353	46.2	MS	25.6	MS	1.5	R	1.0	R	14--22	S
30	LMH 1016	11.8	MR	19.6	MR	1.5	R	1.5	R	9--14	S
31	INDAM-1122	9.2	R	20.3	MR	6.5	MS	1.0	R	32--44	S
32	IMH 1603	0.0	R	56.7	S	3.0	R	1.0	R	13--20	S
33	DAS-MH-310	31.8	MS	23.6	MR	1.5	R	1.0	R	28--36	S
34	IMH 1527	22.2	MR	23.2	MR	4.0	MR	1.0	R	26--32	S
35	IMH 1533	31.0	MS	30.4	MS	3.0	R	1.0	R	3--8	MR
36	AH-7080	47.7	MS	28.0	MS	1.5	R	1.0	R	10--18	S
37	MH 24	32.7	MS	27.3	MS	1.5	R	1.0	R	24--32	S
38	CMH 08-292 (C)	29.2	MS	23.8	MR	1.5	R	1.0	R	31--36	S
39	BIO 9544 (C)	0.0	R	23.2	MR	3.0	R	1.0	R	8--15	S
40	DHM 121 (BH 41009) (C)	40.0	MS	38.1	MS	1.5	R	1.0	R	14--21	S
41	Res. Check	-	-	64.1	S	1.5	R	-	-	2--9	MR
42	Sus. Check	83.3	S	69.1	S	8.5	S	2.8	R	30--39	S
43	Local Check	-	-	-	-	-	-	2.5	R	3--8	MR

Resistant Check:- Cyst Nematode:- Pratap H. Maize-3 **(UDAIPUR)**

Susceptible Check:- BSR:- CM 600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN); CLS:-** DKC 7074 **(DHAULAKUAN);**
Cyst Nematode:- Pratap Makka-3 **(UDAIPUR)**

Table 5. Screening of NIVT (early maturity & extra early maturity) maize hybrids (Trial 63 & 64)

		Maydis leaf blight score (1-9)										
		NHZ				NWPZ					NEPZ	
S.No	Genotype	DHAU	ALMO	Av. Score	Reaction	DELH	KARN	LUDH	Av. Score	Reaction	DHOL	Reaction
	Early maturity											
1	JH 31784	2.0	3.0	2.5	R	5.0	5.0	3.0	4.3	MR	4.0	MR
2	JH 31801	1.5	5.0	3.3	MR	3.0	4.5	3.0	3.5	MR	8.0	S
3	AH-7204	3.0	5.0	4.0	MR	1.0	7.5	3.5	4.0	MR	4.0	MR
4	JH 31783	1.5	1.0	1.3	R	2.0	5.0	3.5	3.5	MR	6.0	MS
5	KMH-14-46	2.0	5.0	3.5	MR	3.0	5.5	5.0	4.5	MR	6.0	MS
6	JH 31816	2.0	1.0	1.5	R	3.0	5.0	3.0	3.7	MR	4.5	MR
7	JH 31794	1.0	-	1.0	R	1.0	6.0	4.5	3.8	MR	4.0	MR
8	KH-102	2.0	1.0	1.5	R	1.0	5.5	3.5	3.3	MR	3.0	R
9	BAUMC-5	1.0	1.0	1.0	R	6.0	6.0	4.5	5.5	MS	6.5	MS
10	AH9002	1.5	5.0	3.3	MR	3.0	4.5	4.5	4.0	MR	2.5	R
11	AH-7009R	1.5	-	1.5	R	3.0	4.0	4.5	3.8	MR	4.0	MR
12	WH-2096	3.0	5.0	4.0	MR	1.0	6.5	5.5	4.3	MR	6.5	MS
13	DMRH 1417	3.0	5.0	4.0	MR	1.0	6.0	4.5	3.8	MR	4.0	MR
14	KMH-14-50	2.0	5.0	3.5	MR	4.0	6.5	5.5	5.3	MS	5.0	MR
15	WH-2093	1.5	5.0	3.3	MR	4.0	6.0	4.5	4.8	MR	6.0	MS
16	JH 31780	1.5	5.0	3.3	MR	1.0	3.5	2.5	2.3	R	4.0	MR
17	HKH 351	1.0	5.0	3.0	R	1.0	5.0	4.5	3.5	MR	4.5	MR
18	AH-7154	2.5	5.0	3.8	MR	3.0	6.0	3.0	4.0	MR	6.0	MS
19	FH 3768	1.5	5.0	3.3	MR	1.0	5.0	4.5	3.5	MR	4.5	MR
20	KDMH-105	1.5	1.0	1.3	R	4.0	4.5	2.5	3.7	MR	3.0	R
21	IH-0901	2.5	5.0	3.8	MR	5.0	7.5	5.5	6.0	MS	6.0	MS
22	IH-0702	2.5	6.0	4.3	MR	5.0	7.5	6.5	6.3	MS	6.5	MS
23	IH-1204	2.0	8.0	5.0	MR	6.0	4.5	5.0	5.2	MS	4.0	MR
24	IH-0903	3.0	5.0	4.0	MR	1.0	7.0	4.0	4.0	MR	8.0	S
25	AH-7007	2.0	5.0	3.5	MR	8.0	5.5	2.5	5.3	MS	4.0	MR
26	MH 21	1.0	5.0	3.0	R	5.0	5.0	3.5	4.5	MR	6.5	MS

Contd.

Table-5 (63 & 64)

		Maydis leaf blight score (1-9)										
		NHZ				NWPZ					NEPZ	
S.No	Genotype	DHAU	ALMO	Av. Score	Reaction	DELH	KARN	LUDH	Av. Score	Reaction	DHOL	Reaction
27	KMH-14-55	2.5	5.0	3.8	MR	6.0	7.0	3.0	5.3	MS	6.0	MS
28	FH 3763	3.0	5.0	4.0	MR	1.0	8.0	3.5	4.2	MR	6.5	MS
29	MH 22	1.0	1.0	1.0	R	1.0	5.5	3.0	3.2	MR	2.5	R
30	HKH 352	1.5	3.0	2.3	R	6.0	7.0	6.5	6.5	MS	4.5	MR
31	DH-304	2.0	1.0	1.5	R	1.0	5.5	2.0	2.8	R	4.5	MR
32	PMH5 (C)	1.5	1.0	1.3	R	4.0	7.0	2.5	4.5	MR	6.5	MS
33	BIO605 (C)	1.0	3.0	2.0	R	6.0	6.5	2.0	4.8	MR	6.5	MS
34	DKC 7074 (C)	1.0	1.0	1.0	R	4.0	4.5	3.0	3.8	MR	3.0	R
	Extra Early											
35	DH-305	2.0	1.0	1.5	R	3.0	6.0	4.5	4.5	MR	6.0	MS
36	BAUM-4	1.5	5.0	3.3	MR	7.0	7.0	5.5	6.5	MS	3.0	R
37	FH 3765	1.0	5.0	3.0	R	2.0	5.5	4.0	3.8	MR	4.5	MR
38	FH 3771	1.5	5.0	3.3	MR	2.0	5.0	4.0	3.7	MR	4.5	MR
39	Vivek Hybrid 51 (C)	1.5	3.0	2.3	R	3.0	6.0	3.0	4.0	MR	8.0	S
40	Vivek Hybrid 45 (C)	1.0	1.0	1.0	R	6.0	4.0	3.5	4.5	MR	4.0	MR
41	Sus. Check	3.5	-	3.5	MR	7.0	7.5	7.5	7.3	S	8.0	S
42	Local Check	3.5	-	-	-	-	-	6.5	6.5	MS	-	-

Contd.

Susceptible Check:- MLB:- DKC 7074 **(DHAULAKUAN);** CM 600 **(DELHI, KARNAL, LUDHIANA);** CML186 **(DHOLI)**

Table-5 (63 & 64)

Turcium leaf blight score (1-9)									
		NHZ				PZ			
S.No	Genotype	ALMO	BAJA	Av. Score	Reaction	MAND	DHAR	Av. Score	Reaction
	Early maturity								
1	JH 31784	7.0	6.5	6.8	MS	8.0	9.0	8.5	S
2	JH 31801	5.0	5.0	5.0	MR	6.0	6.5	6.3	MS
3	AH-7204	1.0	5.5	3.3	MR	4.0	6.5	5.3	MS
4	JH 31783	4.0	4.5	4.3	MR	7.0	9.0	8.0	S
5	KMH-14-46	5.0	4.0	4.5	MR	6.5	7.5	7.0	MS
6	JH 31816	7.0	5.0	6.0	MS	6.5	9.0	7.8	S
7	JH 31794	7.0	5.5	6.3	MS	5.5	9.0	7.3	S
8	KH-102	7.0	4.0	5.5	MS	2.5	5.5	4.0	MR
9	BAUMC-5	5.0	2.5	3.8	MR	2.0	4.0	3.0	R
10	AH9002	5.0	3.0	4.0	MR	3.0	5.5	4.3	MR
11	AH-7009R	7.0	3.5	5.3	MS	6.5	6.0	6.3	MS
12	WH-2096	5.0	4.0	4.5	MR	5.5	7.5	6.5	MS
13	DMRH 1417	7.0	4.0	5.5	MS	4.5	3.0	3.8	MR
14	KMH-14-50	8.0	4.5	6.3	MS	6.5	8.5	7.5	S
15	WH-2093	5.0	4.5	4.8	MR	6.0	7.5	6.8	MS
16	JH 31780	8.0	3.5	5.8	MS	6.5	9.0	7.8	S
17	HKH 351	5.0	2.5	3.8	MR	6.0	7.5	6.8	MS
18	AH-7154	5.0	3.0	4.0	MR	3.0	4.0	3.5	MR
19	FH 3768	7.0	2.5	4.8	MR	4.5	4.0	4.3	MR
20	KDMH-105	6.0	2.5	4.3	MR	5.5	7.3	6.4	MS
21	IH-0901	1.0	3.5	2.3	R	7.0	5.0	6.0	MS
22	IH-0702	5.0	4.5	4.8	MR	9.0	7.5	8.3	S
23	IH-1204	5.0	5.0	5.0	MR	8.5	8.0	8.3	S
24	IH-0903	5.0	3.5	4.3	MR	6.0	7.5	6.8	MS
25	AH-7007	1.0	4.0	2.5	R	7.5	8.5	8.0	S
26	MH 21	5.0	2.0	3.5	MR	4.0	6.5	5.3	MS

Contd.

Table-5 (63 & 64)

		Turcium leaf blight score (1-9)							
		NHZ				PZ			
S.No	Genotype	ALMO	BAJA	Av. Score	Reaction	MAND	DHAR	Av. Score	Reaction
27	KMH-14-55	5.0	3.5	4.3	MR	6.5	8.0	7.3	S
28	FH 3763	1.0	3.0	2.0	R	2.0	3.5	2.8	R
29	MH 22	5.0	3.0	4.0	MR	4.0	5.0	4.5	MR
30	HKH 352	7.0	4.5	5.8	MS	6.5	4.5	5.5	MS
31	DH-304	6.0	2.0	4.0	MR	4.0	2.0	3.0	R
32	PMH5 (C)	8.0	7.5	7.8	S	6.0	9.0	7.5	S
33	BIO605 (C)	7.0	3.0	5.0	MR	2.0	1.0	1.5	R
34	DKC 7074 (C)	5.0	2.0	3.5	MR	2.0	4.5	3.3	MR
	Extra Early								
35	DH-305	6.0	3.0	4.5	MR	5.5	9.0	7.3	S
36	BAUM-4	5.0	4.5	4.8	MR	8.5	9.0	8.8	S
37	FH 3765	5.0	3.0	4.0	MR	3.0	3.5	3.3	MR
38	FH 3771	1.0	4.0	2.5	R	4.0	3.5	3.8	MR
39	Vivek Hybrid 51 (C)	6.0	3.0	4.5	MR	4.5	6.5	5.5	MS
40	Vivek Hybrid 45 (C)	6.0	2.5	4.3	MR	2.5	5.5	4.0	MR
41	Res. Check	-	-	-	-	3.5	3.0	3.3	MR
42	Sus. Check	-	8.0	8.0	S	8.0	9.0	8.5	S
43	Local Check	-	7.5	7.5	S	-	-	-	-

Contd.

Resistant Check:- TLB:- NAH 2049 **(MANDYA);** CI 4 **(DHARWAD)**
Susceptible Check:- TLB:- CM 202 **(BAJAURA, MANDYA, DHARWAD)**

Table-5 (63 & 64)

		Banded leaf and sheath blight score (1-9)						
		NWPZ					NHZ	
S.No	Genotype	PANT	KARN	DELH	Av. Score	Reaction	DHAU*	Reaction
	Early maturity							
1	JH 31784	9.0	3.5	8.0	6.8	MS	3.0	R
2	JH 31801	9.0	4.0	7.0	6.7	MS	2.0	R
3	AH-7204	9.0	6.0	6.0	7.0	MS	2.0	R
4	JH 31783	8.3	4.5	8.0	6.9	MS	2.0	R
5	KMH-14-46	8.8	5.0	6.0	6.6	MS	1.5	R
6	JH 31816	8.8	6.0	7.0	7.3	S	2.0	R
7	JH 31794	9.0	5.0	8.0	7.3	S	3.0	R
8	KH-102	9.0	4.0	6.0	6.3	MS	3.5	MR
9	BAUMC-5	9.0	4.5	6.0	6.5	MS	1.5	R
10	AH9002	9.0	4.0	NG	6.5	MS	2.5	R
11	AH-7009R	9.0	5.0	5.0	6.3	MS	4.5	MR
12	WH-2096	9.0	5.0	5.0	6.3	MS	3.0	R
13	DMRH 1417	8.5	4.5	8.0	7.0	MS	3.0	R
14	KMH-14-50	9.0	5.0	8.0	7.3	S	3.5	MR
15	WH-2093	9.0	5.0	7.0	7.0	MS	2.0	R
16	JH 31780	9.0	5.5	7.0	7.2	S	1.5	R
17	HKH 351	9.0	5.0	6.0	6.7	MS	2.0	R
18	AH-7154	9.0	5.0	5.0	6.3	MS	2.0	R
19	FH 3768	9.0	5.0	NG	7.0	MS	3.0	R
20	KDMH-105	9.0	4.5	5.0	6.2	MS	2.5	R
21	IH-0901	9.0	5.0	8.0	7.3	S	1.5	R
22	IH-0702	8.8	5.5	6.0	6.8	MS	1.5	R
23	IH-1204	9.0	4.0	8.0	7.0	MS	1.0	R
24	IH-0903	9.0	5.5	5.0	6.5	MS	2.0	R
25	AH-7007	9.0	4.5	8.0	7.2	S	2.5	R
26	MH 21	9.0	4.5	8.0	7.2	S	2.0	R

Contd.

Table-5 (63 & 64)

Banded leaf and sheath blight score (1-9)								
		NWPZ					NHZ	
S.No	Genotype	PANT	KARN	DELH	Av. Score	Reaction	DHAU*	Reaction
27	KMH-14-55	9.0	3.5	6.0	6.2	MS	2.5	R
28	FH 3763	9.0	6.5	6.0	7.2	S	4.0	MR
29	MH 22	8.8	5.0	5.0	6.3	MS	2.0	R
30	HKH 352	9.0	3.5	6.0	6.2	MS	1.5	R
31	DH-304	8.8	4.5	7.0	6.8	MS	1.0	R
32	PMH5 (C)	9.0	4.5	8.0	7.2	S	3.5	MR
33	BIO605 (C)	9.0	5.5	8.0	7.5	S	1.0	R
34	DKC 7074 (C)	9.0	5.0	5.0	6.3	MS	1.0	R
	Extra Early							
35	DH-305	9.0	4.0	5.0	6.0	MS	2.5	R
36	BAUM-4	9.0	5.5	8.0	7.5	S	1.5	R
37	FH 3765	8.8	3.5	6.0	6.1	MS	7.5	S
38	FH 3771	9.0	4.0	7.0	6.7	MS	3.0	R
39	Vivek Hybrid 51 (C)	8.8	4.5	8.0	7.1	S	2.0	R
40	Vivek Hybrid 45 (C)	9.0	5.0	8.0	7.3	S	3.0	R
41	Sus. Check	9.0	6.5	8.0	7.8	S	4.5	MR
42	Local Check	-	-	-	-	-	5.0	MR

*Data not considered due to low disease pressure

Contd.

Susceptible Check:- BLSB:- CM 600 **(PANTNAGAR, KRANAL);** CM 501 **(DELHI);** DKC 7074 **(DHAULAKUAN)**

Table-5 (63 & 64)

		Charcoal rot score (1-9)						FSR (1-9)	
		NWPZ		PZ				CWZ	
S.No	Genotype	LUDH	Reaction	HYDE	COIM	Av. Score	Reaction	UDAI	Reaction
	Early maturity								
1	JH 31784	7.0	MS	4.5	1.3	2.9	R	4.2	MR
2	JH 31801	5.5	MS	3.7	1.2	2.4	R	3.7	MR
3	AH-7204	8.6	S	4.1	7.7	5.9	MS	3.8	MR
4	JH 31783	7.2	S	4.0	6.5	5.3	MS	4.2	MR
5	KMH-14-46	6.6	MS	4.7	1.6	3.1	MR	4.5	MR
6	JH 31816	6.7	MS	4.1	3.2	3.7	MR	3.8	MR
7	JH 31794	4.8	MR	5.0	4.2	4.6	MR	4.0	MR
8	KH-102	5.4	MS	4.6	1.7	3.1	MR	3.6	MR
9	BAUMC-5	6.2	MS	5.1	2.2	3.7	MR	4.1	MR
10	AH9002	7.4	S	5.1	3.8	4.4	MR	5.2	MS
11	AH-7009R	6.6	MS	3.7	1.3	2.5	R	5.0	MR
12	WH-2096	8.4	S	4.2	2.8	3.5	MR	4.1	MR
13	DMRH 1417	5.8	MS	3.4	4.5	3.9	MR	3.3	MR
14	KMH-14-50	7.4	S	4.9	3.4	4.2	MR	3.0	R
15	WH-2093	6.5	MS	4.0	2.2	3.1	MR	3.4	MR
16	JH 31780	6.1	MS	5.2	7.2	6.2	MS	4.4	MR
17	HKH 351	7.3	S	4.1	1.3	2.7	R	4.4	MR
18	AH-7154	6.5	MS	5.7	4.4	5.0	MR	4.0	MR
19	FH 3768	6.3	MS	4.8	2.3	3.5	MR	4.9	MR
20	KDMH-105	5.4	MS	3.8	5.0	4.4	MR	5.2	MS
21	IH-0901	6.8	MS	4.9	1.2	3.0	R	4.3	MR
22	IH-0702	7.2	S	4.5	2.2	3.3	MR	4.5	MR
23	IH-1204	7.9	S	3.5	2.8	3.2	MR	4.4	MR
24	IH-0903	8.5	S	4.7	1.7	3.2	MR	3.9	MR
25	AH-7007	7.9	S	4.9	1.1	3.0	R	4.4	MR
26	MH 21	6.4	MS	4.3	3.5	3.9	MR	5.4	MS

Contd.

Table-5 (63 & 64)

		Charcoal rot score (1-9)						FSR (1-9)	
		NWPZ		PZ				CWZ	
S.No	Genotype	LUDH	Reaction	HYDE	COIM	Av. Score	Reaction	UDAI	Reaction
27	KMH-14-55	7.5	S	3.7	2.6	3.2	MR	3.9	MR
28	FH 3763	7.5	S	5.2	3.2	4.2	MR	4.2	MR
29	MH 22	6.2	MS	3.1	1.8	2.4	R	3.1	MR
30	HKH 352	7.6	S	5.0	3.2	4.1	MR	3.0	R
31	DH-304	7.2	S	4.4	2.3	3.3	MR	4.8	MR
32	PMH5 (C)	6.4	MS	5.3	1.2	3.2	MR	3.4	MR
33	BIO605 (C)	6.2	MS	4.7	3.7	4.2	MR	3.6	MR
34	DKC 7074 (C)	4.9	MR	5.2	1.2	3.2	MR	3.3	MR
	Extra Early								
35	DH-305	7.2	S	3.4	3.9	3.7	MR	2.8	R
36	BAUM-4	8.2	S	5.4	1.7	3.6	MR	3.7	MR
37	FH 3765	7.7	S	4.3	3.4	3.9	MR	2.9	R
38	FH 3771	6.2	MS	3.7	1.5	2.6	R	3.6	MR
39	Vivek Hybrid 51 (C)	5.5	MS	5.0	3.7	4.3	MR	6.0	MS
40	Vivek Hybrid 45 (C)	5.6	MS	4.0	1.1	2.5	R	3.6	MR
41	Res. Check	-	-	-	1.0	1.0	R	1.0	R
42	Sus. Check	8.1	S	6.7	8.2	7.45	S	8.5	S
43	Local Check	7.2	S	-	-	-	-	-	-

Contd.

Resistant Check:- C. ROT:- CoH 6 **(COIMBATORE); FSR:-** DMH 117 **(UDAIPUR)**
Susceptible Check:- C. ROT:- CM 600 **(LUDHIANA);** BML 6 **(HYDERABAD);** CM 501 **(COIMBATORE); FSR:-** SURYA **(UDAIPUR)**

Table-5 (63 & 64)

		C. Rust (1-9)		RDM (%)		SDM (%)		
		PZ		CWZ		PZ		
S.No	Genotype	DHAR	Reaction	UDAI	Reaction	MAND	COIM*	Reaction
	Early maturity							
1	JH 31784	4.0	MR	33.0	MS	100.0	83.3	S
2	JH 31801	2.0	R	20.0	MR	97.7	56.3	S
3	AH-7204	8.0	S	20.0	MR	100.0	26.7	S
4	JH 31783	4.5	MS	20.0	MR	100.0	20.5	S
5	KMH-14-46	8.0	S	0.0	R	100. 0	54.6	S
6	JH 31816	6.5	S	16.0	MR	100.0	72.3	S
7	JH 31794	4.0	MR	13.0	MR	100.0	45.8	S
8	KH-102	4.0	MR	15.0	MR	81.8	56.1	S
9	BAUMC-5	2.0	R	15.0	MR	84.5	50.9	S
10	AH9002	5.0	MS	27.0	MS	95.0	5.0	S
11	AH-7009R	7.5	S	30.0	MS	92.7	47.8	S
12	WH-2096	5.0	MS	20.0	MR	96.2	38.0	S
13	DMRH 1417	3.0	MR	0.0	R	100.0	66.7	S
14	KMH-14-50	6.5	S	23.0	MR	100.0	42.4	S
15	WH-2093	4.0	MR	20.0	MR	91.3	58.3	S
16	JH 31780	4.0	MR	9.0	R	100.0	100.0	S
17	HKH 351	6.0	MS	0.0	R	100.0	17.9	S
18	AH-7154	6.0	MS	0.0	R	78.8	21.7	S
19	FH 3768	3.5	MR	8.0	R	100.0	45.7	S
20	KDMH-105	2.0	R	0.0	R	100.0	75.0	S
21	IH-0901	4.5	MS	25.0	MR	100.0	83.8	S
22	IH-0702	6.5	S	0.0	R	100.0	27.8	S
23	IH-1204	8.0	S	9.0	R	100.0	35.7	S
24	IH-0903	8.0	S	20.0	MR	100.0	50.7	S
25	AH-7007	5.5	MS	22.0	MR	100.0	6.3	S
26	MH 21	5.0	MS	14.0	MR	100.0	71.4	S

Contd.

Table-5 (63 & 64)

		C. Rust (1-9)		RDM (%)		SDM (%)		
		PZ		CWZ		PZ		
S.No	Genotype	DHAR	Reaction	UDAI	Reaction	MAND	COIM*	Reaction
27	KMH-14-55	7.5	S	0.0	R	85.0	45.0	S
28	FH 3763	3.0	MR	10.0	R	100.0	48.8	S
29	MH 22	4.5	MS	12.5	MR	100.0	56.3	S
30	HKH 352	8.3	S	0.0	R	100.0	20.0	S
31	DH-304	2.0	R	0.0	R	97.4	65.0	S
32	PMH5 (C)	4.0	MR	33.0	MS	100.0	44.4	S
33	BIO605 (C)	2.0	R	22.0	MR	75.0	53.8	S
34	DKC 7074 (C)	6.5	S	8.0	R	93.3	100.0	S
	Extra Early							
35	DH-305	6.5	S	9.0	R	100.0	90.9	S
36	BAUM-4	8.0	S	0.0	R	97.5	50.0	S
37	FH 3765	5.0	MS	18.0	MR	100.0	48.6	S
38	FH 3771	3.5	MR	55.0	S	94.1	68.2	S
39	Vivek Hybrid 51 (C)	4.0	MR	33.0	MS	100.0	31.9	S
40	Vivek Hybrid 45 (C)	3.0	MR	11.0	MR	100.0	32.5	S
41	Res. Check	4.0	MR	10.0	R	19.5	0.0	MR
42	Sus. Check	8.0	S	90.0	S	100.0	0.0	S

*Data not considered due erratic disease pressure

Contd.

Resistant Check:- C. RUST:- CI 4 **(DHARWAD); RDM:-** DHM 117 **(UDAIPUR); SDM:-** NAH 1137 **(MANDYA)**

Susceptible Check:- C. RUST:- CM 202 **(DHARWAD); RDM:-** SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA)**

Table-5 (63 & 64)

		BSR (%)				CLS (1-9)				Cyst nematode	
		NWPZ		NHZ		CWZ		NHZ		CWZ	
S.No	Genotype	PANT	Reaction	DHAU	Reaction	UDAI	Reaction	DHAU	Reaction	UDAI	Reaction
	Early maturity										
1	JH 31784	4.6	R	20.1	MR	1.5	R	1.0	R	19--26	S
2	JH 31801	25.8	MS	20.4	MR	2.0	R	1.0	R	13--18	S
3	AH-7204	21.3	MR	47.7	MS	6.5	MS	1.5	R	30--42	S
4	JH 31783	2.9	R	23.2	MR	6.5	MS	1.0	R	31--36	S
5	KMH-14-46	22.9	MR	24.8	MR	5.5	MS	1.0	R	5--9	MR
6	JH 31816	9.2	R	25.9	MS	6.0	MS	2.0	R	32--40	S
7	JH 31794	8.3	R	17.4	MR	6.0	MS	1.0	R	23--33	S
8	KH-102	22.2	MR	32.6	MS	1.5	R	1.0	R	4--7	MR
9	BAUMC-5	0.0	R	27.5	MS	2.0	R	2.5	R	24--32	S
10	AH9002	34.9	MS	22.7	MR	6.5	MS	1.0	R	31--43	S
11	AH-7009R	29.2	MS	19.1	MR	2.0	R	1.0	R	19--24	S
12	WH-2096	36.4	MS	24.2	MR	1.5	R	1.5	R	20--28	S
13	DMRH 1417	34.3	MS	50.0	MS	5.0	MR	1.5	R	11--17	S
14	KMH-14-50	38.9	MS	25.0	MR	6.5	MS	1.0	R	13--18	S
15	WH-2093	55.0	S	27.8	MS	6.5	MS	3.0	R	15--20	S
16	JH 31780	0.0	R	20.2	MR	6.5	MS	1.0	R	25--32	S
17	HKH 351	34.9	MS	33.6	MS	3.0	R	1.5	R	18--26	S
18	AH-7154	4.6	R	24.2	MR	3.5	MR	1.5	R	14--21	S
19	FH 3768	9.2	R	23.4	MR	2.5	R	1.0	R	18--24	S
20	KDMH-105	17.1	MR	36.4	MS	6.5	MS	1.5	R	32--42	S
21	IH-0901	85.0	S	28.5	MS	6.5	MS	1.0	R	29--36	S
22	IH-0702	22.5	MR	23.2	MR	6.5	MS	3.0	R	13--20	S
23	IH-1204	29.2	MS	27.3	MS	5.0	MR	3.5	MR	30--38	S
24	IH-0903	43.1	MS	25.6	MS	2.5	R	2.0	R	21--27	S
25	AH-7007	16.2	MR	20.1	MR	6.5	MS	1.5	R	16--21	S
26	MH 21	3.9	R	29.8	MS	6.5	MS	2.5	R	33--44	S

Contd.

Table-5 (63 & 64)

		BSR (%)				CLS (1-9)				Cyst nematode	
		NWPZ		NHZ		CWZ		NHZ		CWZ	
S.No	Genotype	PANT	Reaction	DHAU	Reaction	UDAI	Reaction	DHAU	Reaction	UDAI	Reaction
27	KMH-14-55	30.0	MS	31.5	MS	2.0	R	1.5	R	27--32	S
28	FH 3763	52.7	S	27.1	MS	6.5	MS	1.0	R	15--22	S
29	MH 22	12.7	MR	33.3	MS	6.5	MS	1.0	R	18--22	S
30	HKH 352	58.3	S	24.8	MR	6.0	MS	1.0	R	10--16	S
31	DH-304	16.7	MR	28.3	MS	6.0	MS	1.0	R	7--12	S
32	PMH5 (C)	20.2	MR	20.0	MR	1.5	R	1.0	R	4--8	MR
33	BIO605 (C)	0.0	R	28.0	MS	1.0	R	1.0	R	9--16	S
34	DKC 7074 (C)	16.2	MR	19.2	MR	6.5	MS	1.0	R	13--22	S
	Extra Early										
35	DH-305	5.0	R	25.2	MS	6.5	MS	1.0	R	10--18	S
36	BAUM-4	68.3	S	46.7	MS	6.5	MS	1.5	R	20--25	S
37	FH 3765	64.1	S	34.2	MS	6.5	MS	1.0	R	16--23	S
38	FH 3771	76.4	S	32.5	MS	3.5	MR	1.5	R	12--18	S
39	Vivek Hybrid 51 (C)	0.0	R	37.8	MS	6.0	MS	1.0	R	24--33	S
40	Vivek Hybrid 45 (C)	42.2	MS	28.8	MS	2.5	R	1.0	R	15--20	S
41	Res. Check	-	-	-	-	1.5	R	-	-	3--8	MR
42	Sus. Check	85.0	S	67.2	S	8.5	S	2.8	R	34--41	S
43	Local Check	-	-	63.2	S	-	-	2.5	R	6--11	S

Resistant Check:- Cyst Nematode:- Pratap H. Maize-3 **(UDAIPUR)**
Susceptible Check:- BSR:- CM 600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN); CLS:-** DKC 7074 **(DHAULAKUAN)**
Cyst Nematode:- Pratap Makka-3 **(UDAIPUR)**

Table 6. Screening of AVT I & II (late maturity) maize hybrids (Trial 75)

		Maydis leaf blight score (1-5)								
		NHZ				NWPZ			NEPZ	
S.No	Genotype	DHAU	Reaction	DELH	KARN	LUDH	Av. Score	Reaction	DHOL	Reaction
	AVT-I Late									
1	DKC8161 (IP8570)	1.5	R	3.5	3.0	2.3	2.9	MR	3.0	MR
2	KMH-2852	1.0	R	1.0	3.0	2.3	2.1	MR	3.0	MR
3	C.P 802	1.0	R	2.3	3.0	2.0	2.4	MR	2.0	R
4	PM15103L	1.0	R	1.3	3.0	2.3	2.2	MR	2.0	R
5	DKC9164 (IP9002)	1.0	R	2.0	3.0	2.3	2.4	MR	3.0	MR
6	PM15104L	1.0	R	3.5	2.5	2.5	2.8	MR	3.0	MR
7	DKC9163 (IP8703)	1.0	R	3.5	3.0	2.0	2.8	MR	3.5	MS
8	VNR-31565 (IMR-143)	1.0	R	2.3	2.0	2.0	2.1	MR	2.0	R
9	SMH-3902	2.5	MR	2.3	4.0	2.8	3.0	MR	2.5	MR
10	CMH12-686	1.0	R	3.0	2.5	2.0	2.5	MR	2.0	R
11	DKC9167 (IP8708)	1.0	R	2.0	2.5	2.3	2.3	MR	4.0	MS
12	SYN516753	1.0	R	3.5	3.5	2.8	3.3	MS	4.0	MS
13	DAS-MH-111	1.0	R	2.0	3.0	2.3	2.4	MR	2.0	R
14	ADV 7022	2.0	R	2.0	4.0	3.0	3.0	MR	3.5	MS
15	CMH12-688	1.0	R	1.0	3.0	2.5	2.2	MR	3.0	MR
16	BL 103	2.0	R	1.0	3.5	2.8	2.4	MR	3.0	MR
	AVT-II Late									
17	HT 51412616	1.0	R	1.3	3.0	2.0	2.1	MR	2.0	R
18	DKC9151(IN8902)	1.5	R	4.5	3.0	2.8	3.4	MS	2.0	R
19	DMH192	1.0	R	1.3	3.0	2.8	2.4	MR	2.0	R
20	ADV 0990296	1.0	R	1.0	4.0	2.3	2.4	MR	3.0	MR
21	KH-2192	1.0	R	2.0	4.0	2.0	2.7	MR	3.0	MR
22	PMH 1 (C)	1.5	R	2.0	3.5	2.5	2.7	MR	2.0	R
23	Seed tech 2324(C)	1.0	R	2.3	3.5	3.0	2.9	MR	3.5	MS
24	Bio -9681(C)	1.5	R	1.3	2.0	2.5	1.9	R	2.0	R
25	Sus. Check	3.5	MS	4.0	4.5	4.5	4.3	S	4.0	MS
26	Local Check	3.5	MS	-	-	3.3	3.3	MS	-	-

Contd.

Susceptible Check:- MLB:- DKC 7074 **(DHAULAKUAN);** CM 600 **(DELHI, KARNAL, LUDHIANA);** CML186 **(DHOLI)**

Table-6 (75)

		Turcium leaf blight score (1-5)								
		NHZ					PZ			
S.No	Genotype	ALMO	BARA	BAJA	Av. Score	Reaction	MAND	DHAR	Av. Score	Reaction
	AVT-I Late									
1	DKC8161 (IP8570)	1.0	2.0	2.0	1.7	R	2.8	3.0	2.9	MR
2	KMH-2852	3.0	3.5	2.3	2.9	MR	3.8	2.0	2.9	MR
3	C.P 802	3.0	2.0	2.0	2.3	MR	2.5	3.5	3.0	MR
4	PM15103L	3.0	2.5	2.0	2.5	MR	2.3	5.0	3.7	MS
5	DKC9164 (IP9002)	3.0	3.0	2.0	2.7	MR	3.5	4.0	3.8	MS
6	PM15104L	3.0	2.0	2.0	2.3	MR	1.8	3.8	2.8	MR
7	DKC9163 (IP8703)	3.0	2.0	2.0	2.3	MR	2.8	5.0	3.9	MS
8	VNR-31565 (IMR-143)	4.0	3.0	2.3	3.1	MS	3.8	1.8	2.8	MR
9	SMH-3902	3.0	3.5	2.0	2.8	MR	3.0	3.8	3.4	MS
10	CMH12-686	1.0	1.5	2.3	1.6	R	1.5	4.0	2.8	MR
11	DKC9167 (IP8708)	3.0	2.5	2.3	2.6	MR	3.0	3.8	3.4	MS
12	SYN516753	3.0	1.5	2.3	2.3	MR	1.5	1.5	1.5	R
13	DAS-MH-111	1.0	1.5	2.0	1.5	R	2.8	4.5	3.7	MS
14	ADV 7022	3.0	3.0	2.0	2.7	MR	2.8	3.0	2.9	MR
15	CMH12-688	1.0	2.5	2.0	1.8	R	2.3	3.3	2.8	MR
16	BL 103	2.0	3.0	2.5	2.5	MR	2.8	5.0	3.9	MS
	AVT-II Late									
17	HT 51412616	3.0	1.5	2.0	2.2	MR	2.3	4.5	3.4	MS
18	DKC9151(IN8902)	2.0	2.5	2.0	2.2	MR	3.0	3.5	3.3	MS
19	DMH192	3.0	2.5	2.0	2.5	MR	2.3	1.0	1.7	R
20	ADV 0990296	3.0	2.5	2.3	2.6	MR	3.0	3.0	3.0	MR
21	KH-2192	3.0	3.5	2.3	2.9	MR	3.3	3.0	3.2	MS
22	PMH 1 (C)	1.0	2.0	2.0	1.7	R	1.8	5.0	3.4	MS
23	Seed tech 2324(C)	1.0	2.5	2.3	1.9	R	3.0	2.5	2.8	MR
24	Bio -9681(C)	3.0	3.0	2.3	2.8	MR	2.0	5.0	3.5	MS
25	Res. Check	-	-	-	-	-	1.8	2.0	1.9	R
26	Sus. Check	-	4.0	3.8	3.8	MS	3.8	5.0	4.4	S
27	Local Check	-	-	4.5	4.5	S	-	-	-	-

Resistant Check:- TLB:- NAH 2049 **(MANDYA);** CI 4 **(DHARWAD)**

Contd.

Susceptible Check:- TLB:- RCM 1-2 **(BARAPANI);** CM 202 **(BAJAURA, MANDYA, DHARWAD)**

Table-6 (75)

		Banded leaf and sheath blight score (1-5)						
		NWPZ					NHZ	
S.No	Genotype	PANT	KARN	DELH	Av. Score	Reaction	DHAU*	Reaction
	AVT-I Late							
1	DKC8161 (IP8570)	4.4	2.5	2.3	3.1	MS	3.5	MS
2	KMH-2852	4.0	3.0	3.5	3.5	MS	1.5	R
3	C.P 802	3.5	3.5	3.5	3.5	MS	1.0	R
4	PM15103L	4.1	2.5	4.0	3.5	MS	1.0	R
5	DKC9164 (IP9002)	4.0	2.0	4.5	3.5	MS	1.0	R
6	PM15104L	4.3	3.5	4.0	3.9	MS	1.0	R
7	DKC9163 (IP8703)	4.3	2.5	4.5	3.8	MS	2.0	R
8	VNR-31565 (IMR-143)	2.8	3.0	3.5	3.1	MS	3.0	MR
9	SMH-3902	3.8	3.0	3.0	3.3	MS	2.0	R
10	CMH12-686	3.9	3.5	2.3	3.2	MS	2.0	R
11	DKC9167 (IP8708)	3.0	4.0	4.0	3.7	MS	1.5	R
12	SYN516753	3.3	3.5	2.3	3.0	MR	3.0	MR
13	DAS-MH-111	4.1	2.5	4.5	3.7	MS	2.5	MR
14	ADV 7022	4.3	3.5	2.3	3.4	MS	2.5	MR
15	CMH12-688	4.0	2.0	3.0	3.0	MR	1.0	R
16	BL 103	4.5	3.0	3.5	3.7	MS	1.0	R
	AVT-II Late							
17	HT 51412616	4.5	3.5	4.5	4.2	S	1.0	R
18	DKC9151(IN8902)	3.4	4.5	4.5	4.1	S	1.5	R
19	DMH192	4.1	3.0	3.5	3.5	MS	4.0	MS
20	ADV 0990296	4.0	2.5	2.0	2.8	MR	2.0	R
21	KH-2192	3.8	3.5	4.5	3.9	MS	1.5	R
22	PMH 1 (C)	4.0	3.0	3.5	3.5	MS	1.0	R
23	Seed tech 2324(C)	3.8	4.0	3.0	3.6	MS	1.5	R
24	Bio -9681(C)	3.5	3.0	2.0	2.8	MR	1.5	R
25	Sus. Check	5.0	5.0	4.5	4.8	S	2.5	MR
26	Local Check	-	-	-	-	-	2.0	R

*Data not considered due to low disease pressure

Contd.

Susceptible Check:- BLSB:- CM 600 **(PANTNAGAR, KRANAL);** CM 501 **(DELHI);** DKC 7074 **(DHAULAKUAN)**

Table-6 (75)

		Charcoal rot score (1-9)						FSR (1-9)	
		NWPZ			PZ			CWZ	
S.No	Genotype	LUDH	Reaction	HYDE	COIM	Av. Score	Reaction	UDAI	Reaction
	AVT-I Late								
1	DKC8161 (IP8570)	5.2	MS	3.2	4.5	3.9	MR	3.7	MR
2	KMH-2852	5.0	MR	3.8	3.9	3.9	MR	5.7	MS
3	C.P 802	3.9	MR	2.9	1.2	2.1	R	4.6	MR
4	PM15103L	3.9	MR	2.7	1.7	2.2	R	3.2	MR
5	DKC9164 (IP9002)	5.3	MS	2.8	2.8	2.8	R	3.9	MR
6	PM15104L	5.6	MS	2.4	1.2	1.8	R	3.1	MR
7	DKC9163 (IP8703)	5.5	MS	2.6	2.9	2.7	R	2.8	R
8	VNR-31565 (IMR-143)	5.0	MR	3.5	3.6	3.6	MR	2.9	R
9	SMH-3902	5.1	MS	2.8	1.8	2.3	R	3.5	MR
10	CMH12-686	5.8	MS	2.9	1.3	2.1	R	3.1	MR
11	DKC9167 (IP8708)	5.4	MS	2.8	1.2	2.0	R	4.0	MR
12	SYN516753	6.8	MS	2.6	1.7	2.1	R	4.4	MR
13	DAS-MH-111	4.6	MR	2.8	1.2	2.0	R	4.0	MR
14	ADV 7022	5.5	MS	2.6	1.1	1.8	R	3.8	MR
15	CMH12-688	6.2	MS	2.1	1.2	1.7	R	3.2	MR
16	BL 103	5.3	MS	2.0	1.1	1.5	R	4.2	MR
	AVT-II Late								
17	HT 51412616	5.4	MS	3.7	1.2	2.4	R	3.3	MR
18	DKC9151(IN8902)	4.4	MR	2.3	2.3	2.3	R	3.2	MR
19	DMH192	6.4	MS	2.8	1.2	2.0	R	2.7	R
20	ADV 0990296	4.2	MR	2.9	2.4	2.7	R	4.1	MR
21	KH-2192	4.8	MR	3.4	1.6	2.5	R	3.2	MR
22	PMH 1 (C)	5.4	MS	2.6	1.6	2.1	R	3.5	MR
23	Seed tech 2324(C)	6.4	MS	3.0	2.2	2.6	R	4.2	MR
24	Bio -9681(C)	4.0	MR	2.9	4.9	3.9	MR	3.8	MR
25	Res. Check	-	-	-	1.0	1.0	R	2.0	R
26	Sus. Check	7.4	S	6.7	9.0	7.9	S	8.5	S
27	Local Check	6.7	MS	-	-	-	-	-	-

Resistant Check:- C. ROT:- CoH 6 **(COIMBATORE); FSR:-** DMH 117 **(UDAIPUR)**

Contd.

Susceptible Check:- C. ROT:- CM 600 **(LUDHIANA);** BML 6 **(HYDERABAD);** CM 501 **(COIMBATORE); FSR:-** SURYA **(UDAIPUR)**

Table-6 (75)

		C. Rust (1-5)		RDM (%)		SDM (%)		
		PZ		CWZ		PZ		
S.No	Genotype	DHAR	Reaction	UDAI	Reaction	MAND	COIM*	Reaction
	AVT-I Late							
1	DKC8161 (IP8570)	1.0	R	0.0	R	65.9	25.0	S
2	KMH-2852	2.3	MS	0.0	R	86.0	4.2	S
3	C.P 802	1.0	R	33.0	MS	80.0	18.8	S
4	PM15103L	2.0	MR	NG	-	100.0	66.7	S
5	DKC9164 (IP9002)	2.0	MR	0.0	R	88.5	0.0	S
6	PM15104L	5.0	HS	20.0	MR	100.0	37.5	S
7	DKC9163 (IP8703)	1.8	MR	0.0	R	80.2	28.2	S
8	VNR-31565 (IMR-143)	2.5	MS	0.0	R	60.8	25.4	S
9	SMH-3902	2.0	MR	NG	-	100.0	38.2	S
10	CMH12-686	1.0	R	NG	-	53.6	4.6	S
11	DKC9167 (IP8708)	3.3	S	20.0	MR	6.0	14.3	R
12	SYN516753	0.8	R	0.0	R	69.8	41.7	S
13	DAS-MH-111	2.0	MR	NG	-	80.5	15.0	S
14	ADV 7022	3.3	S	0.0	R	9.9	4.5	R
15	CMH12-688	1.0	R	NG	-	100.0	10.4	S
16	BL 103	2.0	MR	50.0	MS	20.8	18.6	MR
	AVT-II Late							
17	HT 51412616	2.3	MS	25.0	MR	24.6	0.0	MR
18	DKC9151(IN8902)	2.0	MR	0.0	R	64.6	9.6	S
19	DMH192	1.0	R	13.0	MR	96.2	9.1	S
20	ADV 0990296	2.0	MR	38.0	MS	17.6	21.6	MR
21	KH-2192	1.8	MR	0.0	R	90.0	22.6	S
22	PMH 1 (C)	2.0	MR	18.0	MR	56.9	6.3	S
23	Seed tech 2324(C)	1.0	R	31.0	MS	71.8	21.7	S
24	Bio -9681(C)	1.0	R	0.0	R	24.3	50.0	MR
25	Res. Check	2.0	MR	10.0	R	19.9	0.0	MR
26	Sus. Check	4.0	S	90.0	S	97.4	0.0	S

*Data not considered due erratic disease pressure

Contd.

Resistant Check:- C. RUST:- CI 4 **(DHARWAD); RDM:-** DHM 117 **(UDAIPUR); SDM:-** NAH 1137 **(MANDYA)**

Susceptible Check:- C. RUST; CM 202 **(DHARWAD); RDM:-** SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA)**

Table-6 (75)

		BSR (%)				CLS (1-5)				Cyst nematode	
		NWPZ		NHZ		CWZ		NHZ		CWZ	
S.No	Genotype	PANT	Reaction	DHAU	Reaction	UDAI	Reaction	DHAU	Reaction	UDAI	Reaction
	AVT-I Late										
1	DKC8161 (IP8570)	27.3	MS	25.6	MS	2.0	R	1.0	R	10--18	S
2	KMH-2852	21.5	MR	37.5	MS	3.0	MR	1.0	R	21--26	S
3	C.P 802	14.4	MR	23.1	MR	1.0	R	1.0	R	3--9	MR
4	PM15103L	0.0	R	28.1	MS	1.0	R	1.0	R	19--26	S
5	DKC9164 (IP9002)	0.0	R	20.4	MR	1.0	R	1.0	R	10--15	S
6	PM15104L	6.3	R	27.3	MS	1.0	R	1.5	R	8--16	S
7	DKC9163 (IP8703)	0.0	R	29.6	MS	1.0	R	1.5	R	19--28	S
8	VNR-31565 (IMR-143)	25.0	MR	49.2	MS	1.0	R	1.0	R	26--36	S
9	SMH-3902	30.0	MS	20.1	MR	1.0	R	1.0	R	28--34	S
10	CMH12-686	23.8	MR	31.4	MS	1.0	R	1.0	R	11--18	S
11	DKC9167 (IP8708)	14.7	MR	36.2	MS	1.0	R	1.0	R	13--16	S
12	SYN516753	4.2	R	27.2	MS	1.5	R	1.0	R	15--22	S
13	DAS-MH-111	11.3	MR	26.2	MS	2.0	R	1.0	R	9--18	S
14	ADV 7022	10.8	MR	31.0	MS	1.0	R	1.5	R	3--7	MR
15	CMH12-688	5.9	R	34.7	MS	3.0	MR	1.0	R	15--22	S
16	BL 103	40.9	MS	27.9	MS	3.0	MR	1.0	R	18--27	S
	AVT-II Late										
17	HT 51412616	23.2	MR	27.0	MS	1.5	R	1.0	R	2--6	MR
18	DKC9151(IN8902)	9.2	R	26.0	MS	1.0	R	2.0	R	19--24	S
19	DMH192	17.4	MR	29.7	MS	1.0	R	1.0	R	12--21	S
20	ADV 0990296	4.2	R	28.6	MS	0.5	R	1.0	R	9--18	S
21	KH-2192	17.6	MR	33.1	MS	1.0	R	1.0	R	16--22	S
22	PMH 1 (C)	14.2	MR	58.8	S	1.0	R	1.0	R	2--5	MR
23	Seed tech 2324(C)	55.0	S	42.0	MS	1.0	R	1.5	R	30--43	S
24	Bio -9681(C)	0.0	R	41.7	MS	1.5	R	1.5	R	32--40	S
25	Res. Check	-	-	-	-	1.0	R	-	-	0--7	MR
26	Sus. Check	90.0	S	61.0	S	4.5	S	2.8	MR	26--33	S
27	Local Check	-	-	62.7	S	-	-	2.5	MR	4--9	MR

Resistant Check:- Cyst Nematode:- Pratap H. Maize-3 **(UDAIPUR)**

Susceptible Check:- BSR:- CM 600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN); CLS:-** DKC 7074 **(DHAULAKUAN); Cyst Nematode:-** Pratap Makka-3 **(UDAIPUR)**

Table 7. Disease screening of AVT I & II (medium maturity) maize hybrids (Trial 76)

		Maydis leaf blight score (1-5)								
		NHZ				NWPZ			NEPZ	
S.No	Genotype	DHAU	Reaction	DELH	KARN	LUDH	Av. Score	Reaction	DHOL	Reaction
	AVT-I Medium									
1	IIMRNH 2015-4	1.0	R	1.0	3.0	2.0	2.0	R	2.0	R
2	BL 107	1.0	R	3.5	3.0	2.0	2.8	MR	3.0	MR
3	KMH-13-5	1.0	R	3.5	4.0	2.5	3.3	MS	4.0	MS
4	JH 13348	1.0	R	1.0	2.5	2.0	1.8	R	3.0	MR
5	LMH 615	1.0	R	2.3	3.0	2.0	2.4	MR	2.0	R
6	BL 106	2.0	R	1.0	3.5	2.5	2.3	MR	3.0	MR
7	VaMH 12014	1.0	R	3.0	3.0	1.8	2.6	MR	3.0	MR
8	JKMH 4103	3.0	MR	1.3	3.5	2.3	2.4	MR	3.0	MR
9	JH 13347	1.0	R	1.0	3.0	2.0	2.0	R	2.0	R
10	HM15206	1.5	R	1.0	2.5	1.8	1.8	R	2.5	MR
11	HM15207	1.5	R	1.0	3.5	1.8	2.1	MR	3.0	MR
	AVT-II Medium									
12	JH 31605	1.0	R	1.0	3.0	1.5	1.8	R	3.5	MS
13	C.P 201	1.0	R	1.0	3.5	1.5	2.0	R	3.5	MS
14	JKMH 4848	2.5	MR	1.0	3.5	2.0	2.2	MR	3.0	MR
15	Bio 9637(C)	1.0	R	2.0	2.5	2.0	2.2	MR	3.5	MS
16	HM9(C)	1.0	R	2.0	3.0	2.5	2.5	MR	3.0	MR
17	PMH4-C	1.5	R	2.3	4.0	1.5	2.6	MR	2.0	R
18	Sus. Check	3.5	MS	4.0	4.5	4.5	4.3	S	5.0	S
19	Local Check	3.5	MS	-	-	3.3	3.3	MS	-	-

Contd.

Susceptible Check:- MLB:- DKC 7074 **(DHAULAKUAN);** CM 600 **(DELHI, KARNAL, LUDHIANA);** CML186 **(DHOLI)**

Table-7 (76)

Turcium leaf blight score (1-5)										
		NHZ					PZ			
S.No	Genotype	ALMO	BARA	BAJA	Av. Score	Reaction	MAND	DHAR	Av. Score	Reaction
	AVT-I Medium									
1	IIMRNH 2015-4	2.0	2.0	2.5	2.2	MR	1.0	4.5	2.8	MR
2	BL 107	2.5	3.5	2.3	2.8	MR	2.5	3.8	3.1	MS
3	KMH-13-5	3.0	4.0	2.5	3.2	MS	4.0	3.3	3.6	MS
4	JH 13348	2.5	3.0	2.0	2.5	MR	1.3	1.5	1.4	R
5	LMH 615	3.0	3.0	2.0	2.7	MR	2.3	4.5	3.4	MS
6	BL 106	3.0	2.0	2.5	2.5	MR	2.8	4.0	3.4	MS
7	VaMH 12014	1.0	2.5	2.0	1.8	R	2.3	4.0	3.2	MS
8	JKMH 4103	3.0	3.0	2.3	2.8	MR	2.0	3.9	2.9	MR
9	JH 13347	3.0	3.5	2.5	3.0	MR	2.3	5.0	3.7	MS
10	HM15206	3.0	3.5	2.3	2.9	MR	2.3	3.5	2.9	MR
11	HM15207	3.0	3.5	2.3	2.9	MR	1.5	4.0	2.8	MR
	AVT-II Medium									
12	JH 31605	3.0	3.0	2.0	2.7	MR	1.5	5.0	3.3	MS
13	C.P 201	2.5	2.5	2.3	2.4	MR	1.5	3.5	2.5	MR
14	JKMH 4848	3.0	3.5	2.0	2.8	MR	2.3	5.0	3.7	MS
15	Bio 9637(C)	2.0	3.0	2.5	2.5	MR	3.0	5.0	4.0	MS
16	HM9(C)	3.0	3.0	2.3	2.8	MR	2.5	5.0	3.8	MS
17	PMH4-C	3.0	4.0	2.5	3.2	MS	2.3	2.8	2.5	MR
18	Res. Check	-	-	-	-	-	2.5	2.0	2.3	MR
19	Sus. Check	-	3.5	4.3	3.9	MS	1.5	5.0	3.3	MS
20	Local Check	-	-	4.5	4.5	S	3.8	-	-	-

Resistant Check:- TLB:- NAH 2049 **(MANDYA);** CI 4 **(DHARWAD)**

Contd.

Susceptible Check:- TLB:- RCM 1-2 **(BARAPANI);** CM 202 **(BAJAURA, MANDYA, DHARWAD)**

Table-7 (76)

Banded leaf and sheath blight score (1-5)								
		NWPZ					NHZ	
S.No	Genotype	PANT	KARN	DELH	Av. Score	Reaction	DHAU*	Reaction
	AVT-I Medium							
1	IIMRNH 2015-4	4.1	3.0	3.5	3.5	MS	3.0	MR
2	BL 107	3.9	3.5	4.5	4.0	MS	1.5	R
3	KMH-13-5	4.3	3.5	4.5	4.1	S	2.0	R
4	JH 13348	3.4	3.5	3.0	3.3	MS	2.0	R
5	LMH 615	3.8	3.0	3.0	3.3	MS	1.0	R
6	BL 106	5.0	3.5	3.0	3.8	MS	2.0	R
7	VaMH 12014	3.8	3.5	3.0	3.4	MS	1.5	R
8	JKMH 4103	4.5	3.0	4.5	4.0	MS	3.0	MR
9	JH 13347	4.4	3.5	3.0	3.6	MS	2.0	R
10	HM15206	4.5	3.0	3.0	3.5	MS	2.0	R
11	HM15207	3.4	3.5	2.3	3.1	MS	2.0	R
	AVT-II Medium							
12	JH 31605	3.9	3.5	3.0	3.5	MS	1.0	R
13	C.P 201	3.6	3.5	2.0	3.0	MR	1.5	R
14	JKMH 4848	4.1	3.0	3.5	3.5	MS	1.0	R
15	Bio 9637(C)	3.6	4.0	3.5	3.7	MS	2.0	R
16	HM9(C)	4.6	3.5	2.0	3.4	MS	1.0	R
17	PMH4-C	4.6	4.0	4.5	4.4	S	1.0	R
18	Sus. Check	5.0	4.5	4.5	4.7	S	2.0	R
19	Local Check	-	-	-	-	-	3.0	MR

*Data not considered due to low disease pressure

Contd.

Susceptible Check:- BLSB:- CM 600 **(PANTNAGAR, KRANAL);** CM 501 **(DELHI);** DKC 7074 **(DHAULAKUAN)**

Table-7 (76)

		Charcoal rot score (1-9)						FSR (1-9)	
		NWPZ		PZ				CWZ	
S.No	Genotype	LUDH	Reaction	HYDE	COIM	Av. Score	Reaction	UDAI	Reaction
	AVT-I Medium								
1	IIMRNH 2015-4	6.0	MS	3.5	1.2	2.3	R	4.3	MR
2	BL 107	5.6	MS	2.5	5.5	4.0	MR	4.2	MR
3	KMH-13-5	6.7	MS	3.5	4.5	4.0	MR	3.7	MR
4	JH 13348	3.8	MR	2.7	1.2	2.0	R	3.1	MR
5	LMH 615	8.0	S	3.5	2.4	2.9	R	4.3	MR
6	BL 106	5.7	MS	2.7	4.2	3.5	MR	2.6	R
7	VaMH 12014	6.0	MS	2.9	1.4	2.1	R	3.7	MR
8	JKMH 4103	7.1	S	4.4	2.3	3.4	MR	2.9	R
9	JH 13347	5.5	MS	3.7	1.3	2.5	R	2.9	R
10	HM15206	4.8	MR	3.4	2.3	2.9	R	4.3	MR
11	HM15207	5.0	MR	3.4	1.1	2.2	R	3.5	MR
	AVT-II Medium								
12	JH 31605	4.7	MR	3.0	2.1	2.5	R	4.1	MR
13	C.P 201	6.3	MS	3.1	3.0	3.1	MR	4.9	MR
14	JKMH 4848	7.2	S	3.6	1.1	2.3	R	2.8	R
15	Bio 9637(C)	6.6	MS	3.2	3.2	3.2	MR	3.6	MR
16	HM9(C)	8.1	S	3.7	2.2	3.0	R	3.4	MR
17	PMH4-C	5.5	MS	2.7	1.7	2.2	R	3.4	MR
18	Res. Check	-	-	-	1.0	1.0	R	2.0	R
19	Sus. Check	7.8	S	6.7	7.9	-	-	8.5	S
20	Local Check	6.9	MS	-	-	-	-	-	-

Resistant Check:- C. ROT:- CoH 6 **(COIMBATORE); FSR:-** DMH 117 **(UDAIPUR)**

Contd.

Susceptible Check:- C. ROT:- CM 600 **(LUDHIANA);** BML 6 **(HYDERABAD);** CM 501 **(COIMBATORE); FSR:-** SURYA **(UDAIPUR)**

Table-7 (76)

		C. Rust (1-5)		RDM (%)		SDM (%)		
		PZ		CWZ		PZ		
S.No	Genotype	DHAR	Reaction	UDAI	Reaction	MAND	COIM*	Reaction
	AVT-I Medium							
1	IIMRNH 2015-4	1.5	MR	28.0	MS	100.0	25.6	S
2	BL 107	3.8	S	40.0	MS	97.5	22.5	S
3	KMH-13-5	4.5	HS	20.0	MR	100.0	20.8	S
4	JH 13348	3.8	S	9.0	R	97.7	28.3	S
5	LMH 615	5.0	HS	45.0	MS	100.0	74.2	S
6	BL 106	2.8	MS	60.0	S	100.0	56.7	S
7	VaMH 12014	3.3	S	0.0	R	100.0	49.2	S
8	JKMH 4103	4.0	S	23.0	MR	97.5	44.4	S
9	JH 13347	2.0	MR	23.0	MR	100.0	66.7	S
10	HM15206	2.0	MR	0.0	R	100.0	18.4	S
11	HM15207	3.0	MS	8.0	R	100.0	56.3	S
	AVT-II Medium							
12	JH 31605	2.0	MR	8.0	R	95.0	17.5	S
13	C.P 201	3.3	S	0.0	R	60.0	54.2	S
14	JKMH 4848	2.0	MR	29.0	MS	85.7	0.0	S
15	Bio 9637(C)	2.0	MR	18.0	MR	70.0	0.0	S
16	HM9(C)	3.0	MS	0.0	R	100.0	54.2	S
17	PMH4-C	4.5	HS	0.0	R	100.0	5.6	S
18	Res. Check	2.0	MR	10.0	R	12.8	0.0	MR
19	Sus. Check	4.0	S	90.0	S	90.0	5.0	S

*Data not considered due erratic disease pressure

Contd.

Resistant Check:- C. RUST:- CI 4 **(DHARWAD); RDM:-** DHM 117 **(UDAIPUR); SDM:-** NAH 1137 **(MANDYA)**

Susceptible Check:- C. RUST; CM 202 **(DHARWAD); RDM:-** SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA)**

Table-7 (76)

		BSR (%)				CLS (1-5)				Cyst nematode	
		NWPZ		NHZ		CWZ		NHZ		CWZ	
S.No	Genotype	PANT	Reaction	DHAU	Reaction	UDAI	Reaction	DHAU	Reaction	UDAI	Reaction
	AVT-I Medium										
1	IIMRNH 2015-4	56.4	S	36.6	MS	1.0	R	1.0	R	12--18	S
2	BL 107	0.0	R	35.7	MS	1.0	R	2.0	R	20--25	S
3	KMH-13-5	30.4	MS	32.7	MS	3.0	MR	1.0	R	30--43	S
4	JH 13348	0.0	R	32.1	MS	0.5	R	1.0	R	11--16	S
5	LMH 615	21.4	MR	45.0	MS	1.0	R	1.0	R	2--5	MR
6	BL 106	0.0	R	44.4	MS	1.0	R	1.5	R	8--14	S
7	VaMH 12014	35.7	MS	31.0	MS	1.0	R	1.0	R	10--19	S
8	JKMH 4103	23.6	MR	24.3	MR	1.5	R	1.0	R	16--22	S
9	JH 13347	5.0	R	26.6	MS	1.0	R	0.5	R	8--16	S
10	HM15206	24.3	MR	40.8	MS	0.5	R	1.0	R	7--14	S
11	HM15207	36.7	MS	29.5	MS	3.0	MR	1.5	R	9--18	S
	AVT-II Medium										
12	JH 31605	11.3	MR	31.9	MS	1.0	R	1.0	R	5--9	MR
13	C.P 201	58.5	S	27.8	MS	3.0	MR	1.0	R	3--7	MR
14	JKMH 4848	19.5	MR	33.9	MS	3.0	MR	1.0	R	10--15	S
15	Bio 9637(C)	16.0	MR	26.4	MS	0.5	R	1.0	R	7--13	S
16	HM9(C)	75.0	S	31.8	MS	1.0	R	1.0	R	30--38	S
17	PMH4-C	39.2	MS	30.3	MS	1.0	R	1.0	R	10--16	S
18	Res. Check	-	-	-	-	1.0	R	-	-	2--7	MR
19	Sus. Check	90.0	S	65.2	S	4.5	S	2.8	MR	28--39	S
20	Local Check	-	-	58.1	S	-	-	2.5	MR	5--12	S

Resistant Check:- Cyst nematode:- Pratap H. Maize-3 **(UDAIPUR)**

Susceptible Check: BSR:- CM 600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN); CLS:-** DKC 7074 **(DHAULAKUAN);**

Cyst nematode:- Pratap Makka-3 **(UDAIPUR)**

Table 8.Screening of AVT I (early maturity) maize hybrids (Trial 77)

		Maydis leaf blight score (1-5)								
		NHZ		NWPZ					NEPZ	
S.No	Genotype	DHAU	Reaction	DELH	KARN	LUDH	Av. Score	Reaction	DHOL	Reaction
	AVT-I Early									
1	KMH-13-15	1.0	R	2.0	4.0	2.3	2.8	MR	2.5	MR
2	FH 3754	2.0	R	2.0	3.0	1.8	2.3	MR	2.5	MR
3	JH 31785	1.5	R	2.0	4.0	2.3	2.8	MR	2.5	MR
4	JKMH 4222	2.0	R	2.0	3.0	1.8	2.3	MR	3.5	MS
5	AH-7006	1.5	R	2.0	2.5	1.8	2.1	MR	3.5	MS
6	DMRH 1305	1.5	R	2.0	2.0	2.3	2.1	MR	2.5	MR
7	PMH-5(C)	1.5	R	2.3	3.0	2.5	2.6	MR	2.0	R
8	Prakash(C)	1.0	R	NG	3.5	3.5	3.5	MS	4.0	MS
9	Sus. Check	3.5	MS	4.0	5.0	4.0	4.3	S	5.0	S
10	Local Check	3.5	MS	-	-	3.3	3.3	MS	-	-

Contd.

Susceptible Check:- MLB:- DKC 7074 **(DHAULAKUAN);** CM 600 **(DELHI, KARNAL, LUDHIANA);** CML186 **(DHOLI)**

Table-8 (77)

Turcium leaf blight score (1-5)										
		NHZ					PZ			
S.No	Genotype	ALMO	BARA	BAJA	Av. Score	Reaction	MAND	DHAR	Av. Score	Reaction
	AVT-I Early									
1	KMH-13-15	3.5	4.5	3.3	3.8	MS	4.5	5.0	4.8	S
2	FH 3754	3.0	3.0	2.5	2.8	MR	3.3	3.8	3.5	MS
3	JH 31785	4.5	5.0	3.3	4.3	S	4.5	5.0	4.8	S
4	JKMH 4222	3.0	5.0	3.3	3.8	MS	3.0	3.8	3.4	MS
5	AH-7006	3.0	4.0	2.0	3.0	MR	2.8	3.5	3.2	MS
6	DMRH 1305	3.0	2.5	2.3	2.6	MR	1.5	2.8	2.1	MR
7	PMH-5(C)	5.0	5.0	4.5	4.8	S	5.0	4.5	4.8	S
8	Prakash(C)	4.5	5.0	4.3	4.6	S	4.5	4.5	4.5	S
9	Res. Check	-	-	-	-	-	2.0	2.0	2.0	R
10	Sus. Check	-	4.0	4.5	4.3	S	4.8	5.0	4.9	S
11	Local Check	-	-	4.5	4.5	S	-	-	-	-

Contd.

Resistant Check:- TLB:- NAH 2049 **(MANDYA);** CI 4 **(DHARWAD)**
Susceptible Check:- TLB:- RCM 1-2 **(BARAPANI);** CM 202 **(BAJAURA, MANDYA, DHARWAD)**

Table-8 (77)

Banded leaf and sheath blight score (1-5)								
		NWPZ					NHZ	
S.No	Genotype	PANT	KARN	DELH	Av. Score	Reaction	DHAU*	Reaction
	AVT-I Early							
1	KMH-13-15	4.6	3.0	4.0	3.9	MS	1.0	R
2	FH 3754	4.5	3.0	3.0	3.5	MS	2.5	MR
3	JH 31785	4.6	3.0	4.0	3.9	MS	1.5	R
4	JKMH 4222	4.5	4.0	4.0	4.2	S	3.0	MR
5	AH-7006	4.5	3.0	3.0	3.5	MS	2.5	MR
6	DMRH 1305	5.0	4.5	4.0	4.5	S	2.5	MR
7	PMH-5(C)	5.0	2.5	4.5	4.0	MS	2.5	MR
8	Prakash(C)	5.0	2.5	4.0	3.8	MS	2.5	MR
9	Sus. Check	5.0	4.5	4.5	4.7	S	2.5	MR
10	Local Check						2.5	MR

*Data not considered due to low disease pressure

Contd.

Susceptible Check:- BLSB:- CM 600 **(PANTNAGAR, KRANAL);** CM 501 **(DELHI);** DKC 7074 **(DHAULAKUAN)**

Table-8 (77)

		Charcoal rot score (1-9)					FSR (1-9)		
		NWPZ			PZ			CWZ	
S.No	Genotype	LUDH	Reaction	HYDE	COIM	Av. Score	Reaction	UDAI	Reaction
	AVT-I Early								
1	KMH-13-15	6.9	MS	5.2	3.5	4.3	MR	3.8	MR
2	FH 3754	7.7	S	4.5	2.1	3.3	MR	4.6	MR
3	JH 31785	5.1	MS	5.3	3.1	4.2	MR	4.2	MR
4	JKMH 4222	7.8	S	4.6	1.3	3.0	R	3.1	MR
5	AH-7006	7.1	S	3.9	1.2	2.6	R	3.8	MR
6	DMRH 1305	7.6	S	4.8	1.3	3.1	MR	3.4	MR
7	PMH-5(C)	7.2	S	4.0	1.6	2.8	R	2.4	R
8	Prakash(C)	8.0	S	4.6	1.7	3.2	MR	7.5	S
9	Res. Check	-	-	-	1.0	1.0	R	1.0	R
10	Sus. Check	8.0	S	6.7	8.6	7.7	S	8.5	S
11	Local Check	6.8	MS	-	-	-	-	-	-

Contd.

Resistant Check:- C. ROT:- CoH 6 **(COIMBATORE); FSR:-** DMH 117 **(UDAIPUR)**

Susceptible Check:- C. ROT:- CM 600 **(LUDHIANA);** BML 6 **(HYDERABAD);** CM 501 **(COIMBATORE); FSR:-** SURYA **(UDAIPUR)**

Table-8 (77)

		C. Rust (1-5)		RDM (%)		SDM (%)		
		PZ		CWZ			PZ	
S.No	Genotype	DHAR	Reaction	UDAI	Reaction	MAND	COIM*	Reaction
	AVT-I Early							
1	KMH-13-15	2.3	MS	40.0	MS	90.6	80.0	S
2	FH 3754	3.3	S	16.0	MR	100.0	5.6	S
3	JH 31785	2.8	MS	53.0	S	100.0	54.2	S
4	JKMH 4222	2.3	MS	12.5	MR	100.0	20.8	S
5	AH-7006	2.8	MS	28.0	MS	100.0	19.4	S
6	DMRH 1305	2.5	MS	7.0	R	100.0	50.0	S
7	PMH-5(C)	3.0	MS	33.0	MS	100.0	54.2	S
8	Prakash(C)	3.3	S	40.0	MS	100.0	58.3	S
9	Res. Check	2.0	MR	10.0	R	12.8	0.0	MR
10	Sus. Check	4.0	S	90.0	S	90.0	15.0	S

*Data not considered due erratic disease pressure

Contd.

Resistant Check:- C. RUST:- CI 4 **(DHARWAD); RDM:-** DHM 117 **(UDAIPUR); SDM:-** NAH 1137 **(MANDYA)**

Susceptible Check:- C. RUST:- CM 202 **(DHARWAD); RDM:-** SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA)**

Table-8 (77)

		BSR (%)				CLS (1-5)				Cyst nematode	
		NWPZ		NHZ		CWZ		NHZ		CWZ	
S.No	Genotype	PANT	Reaction	DHAU	Reaction	UDAI	Reaction	DHAU	Reaction	UDAI	Reaction
	AVT-I Early										
1	KMH-13-15	87.5	S	33.0	MS	3.0	MR	1.5	R	25--32	S
2	FH 3754	33.6	MS	25.6	MS	3.0	MR	1.0	R	29--40	S
3	JH 31785	0.0	R	31.7	MS	1.0	R	1.5	R	12--18	S
4	JKMH 4222	58.3	S	22.9	MR	1.0	R	1.0	R	13--20	S
5	AH-7006	56.3	S	31.1	MS	3.0	MR	1.0	R	11--16	S
6	DMRH 1305	40.9	MS	24.8	MR	1.0	R	1.0	R	26--38	S
7	PMH-5(C)	22.5	MR	38.1	MS	1.5	R	1.0	R	17--22	S
8	Prakash(C)	92.9	S	43.8	MS	3.0	MR	1.5	R	31--40	S
9	Res. Check	-	-	-	-	1.5	R	-	-	2--6	MR
10	Sus. Check	85.0	S	59.1	S	4.5	S	2.8	MR	26--34	S
11	Local Check	-	-	63.5	S	-	-	2.5	MR	7--12	S

Resistant Check:- Cyst Nematode:- Pratap H. Maize-3 **(UDAIPUR)**

Susceptible Check:- BSR:- CM 600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN); CLS:-** DKC 7074 **(DHAULAKUAN)**

Cyst Nematode:- Pratap makka-3 **(UDAIPUR)**

Table 9. Screening of specialty corn hybrids (Pop corn)

Maydis leaf blight score (1-9)								
		NHZ		NWPZ				
S.No	Genotype	DHAU	Reaction	DELH	KARN	LUDH	Av. Score	Reaction
1	DPCH-306	2.0	R	6.0	8.0	2.5	5.5	MS
2	IMHP-1535	3.0	R	6.0	8.5	3.8	6.1	MS
3	ROBUST 265	1.5	R	3.0	7.5	3.5	4.7	MR
4	AP6005	3.0	R	1.0	8.0	3.3	4.1	MR
5	IHPC-1201	1.5	R	1.0	8.5	3.8	4.4	MR
6	ROBUST 427	2.5	R	3.0	8.0	3.5	4.8	MR
7	IMHP 1540	2.5	R	6.0	6.5	3.8	5.4	MS
8	IHPC-1203	3.0	R	2.0	8.5	3.5	4.7	MR
9	Pop corn (Jaya Shree)	2.0	R	6.0	8.5	3.8	6.1	MS
10	SJPC1	1.0	R	5.0	6.5	3.5	5.0	MR
11	DMRHP-1402	2.5	R	5.0	8.0	3.8	5.6	MS
12	AP2202	2.5	R	3.0	8.5	4.0	5.2	MS
13	MPC 1-15	2.0	R	3.0	7.5	3.5	4.7	MR
14	VL Amber Popcorn (C)	2.0	R	3.0	8.0	3.5	4.8	MR
15	Sus. Check	3.5	MR	7.0	8.5	4.3	6.6	MS
16	Local Check	3.5	MR	-	-	3.3	3.3	MR

Contd.

Susceptible Check:- MLB:- DKC 7074 **(DHAULAKUAN);** CM 600 **(DELHI, KARNAL, LUDHIANA)**

Table-9

Turcium leaf blight score (1-9)										
		NHZ					PZ			
S.No	Genotype	ALMO	BARA	BAJA	Av. Score	Reaction	MAND	DHAR	Av. Score	Reaction
1	DPCH-306	5.0	6.6	2.5	4.7	MR	9.0	6.5	7.8	S
2	IMHP-1535	5.0	6.7	2.8	4.8	MR	7.5	9.0	8.3	S
3	ROBUST 265	5.0	8.0	3.8	5.6	MS	8.5	9.0	8.8	S
4	AP6005	5.0	7.0	2.5	4.8	MR	7.5	9.0	8.3	S
5	IHPC-1201	5.0	7.8	3.5	5.4	MS	7.5	7.5	7.5	S
6	ROBUST 427	5.0	7.8	4.5	5.8	MS	9.0	9.0	9.0	S
7	IMHP 1540	5.0	7.2	2.3	4.8	MR	6.5	7.5	7.0	MS
8	IHPC-1203	5.0	5.6	2.0	4.2	MR	7.0	8.5	7.8	S
9	Pop corn (Jaya Shree)	5.0	7.7	3.3	5.3	MS	8.5	8.5	8.5	S
10	SJPC1	3.0	6.8	2.3	4.0	MR	7.5	8.0	7.8	S
11	DMRHP-1402	3.0	7.3	2.5	4.3	MR	7.0	7.5	7.3	S
12	AP2202	3.0	6.8	4.0	4.6	MR	8.5	9.0	8.8	S
13	MPC 1-15	5.0	6.4	2.8	4.7	MR	8.0	7.0	7.5	S
14	VL Amber Popcorn (C)	-	8.2	3.3	5.7	MS	8.0	9.0	8.5	S
15	Res. Check	-	-		-	-	3.5	4.0	3.8	MR
16	Sus. Check	-	7.0	4.3	5.6	MS	8.0	9.0	8.5	S
17	Local Check	-	-	4.5	4.5	MR	-	-	-	-

Contd.

Resistant Check:- TLB:- NAH 2049 **(MANDYA);** CI 4 **(DHARWAD)**
Susceptible Check:- TLB:- RCM 1-2 **(BARAPANI);** CM 202 **(BAJAURA, MANDYA, DHARWAD)**

Table-9

Banded leaf and sheath blight score (1-9)								
		NWPZ					NHZ	
S.No	Genotype	PANT	KARN	DELH	Av. Score	Reaction	DHAU*	Reaction
1	DPCH-306	6.8	7.5	7.0	7.1	S	1.0	R
2	IMHP-1535	9.0	9.0	7.0	8.3	S	1.0	R
3	ROBUST 265	9.0	5.0	7.0	7.0	MS	1.0	R
4	AP6005	9.0	6.0	6.0	7.0	MS	1.0	R
5	IHPC-1201	8.5	9.0	8.0	8.5	S	1.0	R
6	ROBUST 427	9.0	5.5	8.0	7.5	S	2.0	R
7	IMHP 1540	9.0	6.5	6.0	7.2	S	1.0	R
8	IHPC-1203	7.5	8.5	8.0	8.0	S	2.5	R
9	Pop corn (Jaya Shree)	9.0	8.5	6.0	7.8	S	2.5	R
10	SJPC1	8.5	7.0	8.0	7.8	S	1.0	R
11	DMRHP-1402	9.0	7.0	8.0	8.0	S	1.0	R
12	AP2202	9.0	8.0	8.0	8.3	S	3.5	MR
13	MPC 1-15	8.5	8.0	6.0	7.5	S	1.0	R
14	VL Amber Popcorn (C)	9.0	6.0	8.0	7.7	S	1.0	R
15	Sus. Check	9.0	8.0	8.0	8.3	S	4.0	MR
16	Local Check	-	-	-	-	-	3.5	MR

*Data not considered due to low disease pressure

Contd.

Susceptible Check:- BLSB:- CM 600 **(PANTNAGAR, KRANAL);** CM 501 **(DELHI);** DKC 7074 **(DHAUALKUAN)**

Table-9

		Charcoal rot score (1-9)						FSR (1-9)	
		NWPZ		PZ				CWZ	
S.No	Genotype	LUDH	Reaction	HYDE	COIM	Av. Score	Reaction	UDAI	Reaction
1	DPCH-306	7.7	S	4.5	1.6	3.0	R	3.8	MR
2	IMHP-1535	6.8	MS	5.0	2.8	3.9	MR	4.2	MR
3	ROBUST 265	8.3	S	6.3	3.5	4.9	MR	4.8	MR
4	AP6005	7.3	S	5.5	1.4	3.5	MR	4.5	MR
5	IHPC-1201	5.1	MS	4.8	1.2	3.0	R	4.5	MR
6	ROBUST 427	8.3	S	5.0	6.1	5.5	MS	5.1	MS
7	IMHP 1540	7.3	S	5.4	1.2	3.3	MR	4.0	MR
8	IHPC-1203	4.5	MR	5.2	2.2	3.7	MR	4.1	MR
9	Pop corn (Jaya Shree)	8.2	S	4.9	4.2	4.5	MR	4.3	MR
10	SJPC1	7.7	S	5.0	2.0	3.5	MR	4.1	MR
11	DMRHP-1402	7.8	S	4.5	4.8	4.6	MR	4.5	MR
12	AP2202	8.7	S	5.0	1.2	3.1	MR	3.8	MR
13	MPC 1-15	6.8	MS	5.2	2.2	3.7	MR	4.4	MR
14	VL Amber Popcorn (C)	7.4	S	5.6	2.2	3.9	MR	4.2	MR
15	Res. Check	-	-	-	1.0	1.0	R	2.0	R
16	Sus. Check	8.1	S	6.7	8.3	7.5	S	8.5	S
17	Local Check	6.9	MS	-	-	-	-	-	-

Contd.

Resistant Check:- C. ROT:- CoH 6 **(COIMBATORE); FSR:-** DMH 117 **(UDAIPUR)**
Susceptible Check:- C. ROT:- CM 600 **(LUDHIANA);** BML 6 **(HYDERABAD);** CM 501 **(COIMBATORE); FSR:-** SURYA **(UDAIPUR)**

Table-9

		C. Rust (1-9)		RDM (%)		SDM (%)		
		PZ		CWZ		PZ		
S.No	Genotype	DHAR	Reaction	UDAI	Reaction	MAND	COIM*	Reaction
1	DPCH-306	7.5	S	78.0	S	100.0	66.7	S
2	IMHP-1535	8.0	S	80.0	S	100.0	90.0	S
3	ROBUST 265	6.5	S	100.0	S	100.0	45.8	S
4	AP6005	8.5	S	80.0	S	100.0	59.0	S
5	IHPC-1201	8.0	S	100.0	S	100.0	80.0	S
6	ROBUST 427	8.5	S	80.0	S	100.0	79.7	S
7	IMHP 1540	5.5	MS	60.0	S	100.0	100.0	S
8	IHPC-1203	8.5	S	71.0	S	100.0	58.9	S
9	Pop corn (Jaya Shree)	8.5	S	100.0	S	100.0	55.0	S
10	SJPC1	8.5	S	83.0	S	100.0	62.5	S
11	DMRHP-1402	8.0	S	66.0	S	100.0	73.2	S
12	AP2202	8.0	S	100.0	S	100.0	70.0	S
13	MPC 1-15	7.5	S	90.0	S	100.0	55.6	S
14	VL Amber Popcorn (C)	7.5	S	61.0	S	100.0	87.5	S
15	Res. Check	4.0	MR	10.0	R	12.8	0.0	MR
16	Sus. Check	8.0	S	90.0	S	90.0	20.0	S

*Data not considered due erratic disease pressure

Contd.

Resistant Check:- C. RUST:- CI 4 **(DHARWAD); RDM:-** DHM 117 **(UDAIPUR); SDM:-** NAH 1137 **(MANDYA)**

Susceptible Check:- C. RUST:- CM 202 **(DHARWAD); RDM:-** SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA)**

Table-9

		BSR (%)				CLS (1-9)				Cyst nematode	
		NWPZ		NHZ		CWZ		NHZ		CWZ	
S.No	Genotype	PANT	Reaction	DHAU	Reaction	UDAI	Reaction	DHAU	Reaction	UDAI	Reaction
1	DPCH-306	16.7	MR	33.5	MS	6.0	MS	2.0	R	24--34	S
2	IMHP-1535	32.3	MS	36.7	MS	6.0	MS	2.0	R	21--28	S
3	ROBUST 265	81.9	S	37.8	MS	6.5	MS	1.0	R	25--36	S
4	AP6005	78.4	S	41.9	MS	6.5	MS	2.0	R	27--32	S
5	IHPC-1201	10.0	R	47.7	MS	6.5	MS	2.0	R	24--30	S
6	ROBUST 427	80.7	S	42.9	MS	6.5	MS	1.0	R	17--24	S
7	IMHP 1540	20.3	MR	41.7	MS	6.5	MS	2.0	R	14--19	S
8	IHPC-1203	0.0	R	48.3	MS	6.0	MS	1.5	R	27--37	S
9	Pop corn (Jaya Shree)	96.4	S	43.1	MS	6.5	MS	1.0	R	23--33	S
10	SJPC1	4.2	R	40.5	MS	6.0	MS	2.0	R	23--30	S
11	DMRHP-1402	41.7	MS	34.8	MS	6.5	MS	1.5	R	31--43	S
12	AP2202	100.0	S	44.3	MS	6.0	MS	1.5	R	20--28	S
13	MPC 1-15	11.1	MR	37.2	MS	6.5	MS	2.5	R	18--24	S
14	VL Amber Popcorn (C)	61.9	S	38.1	MS	6.0	MS	2.0	R	14--22	S
15	Res. Check	-	-	-	-	1.5	R	-	-	1--7	MR
16	Sus. Check	100.0	S	58.3	S	8.5	S	2.8	R	27--36	S
17	Local Check	-	-	49.0	MS	-	-	2.5	R	3--8	MR

Resistant Check:- Cyst Nematode:- Pratap H. Maize-3 **(UDAIPUR)**
Susceptible Check:- BSR:- CM 600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN); CLS:-** DKC 7074 **(DHAULAKUAN)**
Cyst Nematode:- Pratap makka-3 **(UDAIPUR)**

Table 10. Screening of specialty corn hybrids (Sweet corn)

		Maydis leaf blight score (1-9)								
		NHZ		NWPZ					NEPZ	
S.No	Genotype	DHAU	Reaction	DELH	KARN	LUDH	Av. Score	Reaction	DHOL	Reaction
1	FSCH 91	2.0	R	1.0	5.5	3.0	3.2	MR	5.0	MR
2	ASKH 4	3.0	R	3.0	7.0	1.8	3.9	MR	3.0	R
3	VEHS-16-1	3.0	R	4.0	7.5	2.8	4.8	MR	8.5	S
4	ASKH 6	2.0	R	3.0	8.5	2.3	4.6	MR	3.0	R
5	FSCH 55*	2.5	R	5.0	6.5	3.3	4.9	MR	5.0	MR
6	Madhula	3.0	R	4.0	6.5	2.3	4.3	MR	5.0	MR
7	BIO 4043	2.5	R	5.0	4.5	2.0	3.8	MR	5.0	MR
8	FSCH 75	2.5	R	8.0	8.5	2.3	6.3	MS	6.0	MS
9	BSCH 6	2.0	R	7.0	6.0	2.3	5.1	MS	5.0	MR
10	MITHAS	1.5	R	1.0	7.0	2.0	3.3	MR	4.5	MR
11	Misthi (C)	1.0	R	6.0	7.5	3.8	5.8	MS	4.0	MR
12	Madhuri Sweet Corn (C)	2.5	R	6.0	6.0	3.8	5.3	MS	6.5	MS
13	Priya Sweet Corn (C)	2.0	R	5.0	7.5	3.5	5.3	MS	6.5	MS
14	Sus. Check	3.5	MR	7.0	7.5	4.5	6.3	MS	8.5	S
15	Local Check	3.5	MR	-	-	3.3	3.3	MR	-	-

Contd.

Susceptible Check:- MLB:- DKC 7074 **(DHAULAKUAN);** CM 600 **(DELHI, KARNAL, LUDHIANA);** CML186 **(DHOLI)**

Table-10

Turcium leaf blight score (1-9)										
		NHZ					PZ			
S.No	Genotype	ALMO	BARA	BAJA	Av. Score	Reaction	MAND	DHAR	Av. Score	Reaction
1	FSCH 91	5.0	2.4	2.5	3.3	MR	7.0	6.5	6.8	MS
2	ASKH 4	6.0	2.7	2.3	3.7	MR	6.0	9.0	7.5	S
3	VEHS-16-1	5.0	2.5	2.0	3.2	MR	5.0	9.0	7.0	MS
4	ASKH 6	7.5	4.6	2.3	4.8	MR	8.5	9.0	8.8	S
5	FSCH 55*	6.5	3.1	2.5	4.0	MR	6.5	7.5	7.0	MS
6	Madhula	7.0	4.5	2.8	4.8	MR	8.0	9.0	8.5	S
7	BIO 4043	6.0	2.7	2.5	3.7	MR	6.5	7.5	7.0	MS
8	FSCH 75	6.0	3.0	2.3	3.8	MR	4.5	8.5	6.5	MS
9	BSCH 6	6.0	2.8	2.0	3.6	MR	3.5	8.5	6.0	MS
10	MITHAS	3.0	3.7	2.3	3.0	R	4.5	8.0	6.3	MS
11	Misthi (C)	5.0	2.3	2.5	3.3	MR	5.0	7.5	6.3	MS
12	Madhuri Sweet Corn (C)	5.0	3.6	3.3	4.0	MR	8.0	9.0	8.5	S
13	Priya Sweet Corn (C)	6.0	2.4	2.3	3.6	MR	8.0	7.0	7.5	S
14	Res. Check	-	-	-	-	-	3.5	4.0	3.8	MR
15	Sus. Check	-	7.0	4.0	5.5	MS	7.5	9.0	8.3	S
16	Local Check	-	-	4.5	4.5	MR	-	-	-	-

Contd.

Resistant Check:- TLB:- NAH 2049 **(MANDYA);** CI 4 **(DHARWAD)**

Susceptible Check:- TLB:- RCM 1-2 **(BARAPANI);** CM 202 **(BAJAURA, MANDYA, DHARWAD)**

Table-10

Banded leaf and sheath blight score (1-9)								
		NWPZ					NHZ	
S.No	Genotype	PANT	KARN	DELH	Av. Score	Reaction	DHAU*	Reaction
1	FSCH 91	8.3	5.5	7.0	6.9	MS	4.5	MR
2	ASKH 4	8.5	6.5	8.0	7.7	S	1.0	R
3	VEHS-16-1	9.0	8.0	8.0	8.3	S	2.5	R
4	ASKH 6	7.5	8.0	6.0	7.2	S	1.0	R
5	FSCH 55*	9.0	7.5	7.0	7.8	S	5.0	MR
6	Madhula	8.0	8.0	6.0	7.3	S	2.0	R
7	BIO 4043	7.5	7.0	6.0	6.8	MS	1.0	R
8	FSCH 75	9.0	8.0	8.0	8.3	S	1.0	R
9	BSCH 6	9.0	5.5	7.0	7.2	S	1.0	R
10	MITHAS	9.0	8.5	7.0	8.2	S	2.0	R
11	Misthi (C)	6.5	9.0	8.0	7.8	S	1.0	R
12	Madhuri Sweet Corn (C)	8.5	7.5	5.0	7.0	MS	1.0	R
13	Priya Sweet Corn (C)	9.0	8.5	8.0	8.5	S	2.5	R
14	Sus. Check	9.0	9.0	8.0	8.7	S	4.0	MR
15	Local Check	-	-	-	-	-	4.5	MR

*Data not considered due to low disease pressure

Contd.

Susceptible Check:- BLSB:- CM 600 **(PANTNAGAR, KRANAL);** CM 501 **(DELHI);** DKC 7074 **(DHAULAKUAN)**

Table-10

		Charcoal rot score (1-9)						FSR (1-9)	
		NWPZ		PZ				CWZ	
S.No	Genotype	LUDH	Reaction	HYDE	COIM	Av. Score	Reaction	UDAI	Reaction
1	FSCH 91	8.7	S	3.8	5.0	4.4	MR	4.5	MR
2	ASKH 4	7.0	MS	4.4	2.9	3.7	MR	5.3	MS
3	VEHS-16-1	7.9	S	5.3	1.2	3.3	MR	4.2	MR
4	ASKH 6	8.0	S	4.4	4.2	4.3	MR	3.9	MR
5	FSCH 55*	6.7	MS	4.3	5.2	4.8	MR	5.6	MS
6	Madhula	7.8	S	4.4	1.1	2.8	R	3.5	MR
7	BIO 4043	6.1	MS	4.8	1.2	3.0	R	5.2	MS
8	FSCH 75	6.0	MS	4.7	2.8	3.7	MR	3.5	MR
9	BSCH 6	8.7	S	3.4	3.8	3.6	MR	5.4	MS
10	MITHAS	6.9	MS	4.7	6.1	5.4	MS	6.1	MS
11	Misthi (C)	7.2	S	2.5	3.7	3.1	MR	3.6	MR
12	Madhuri Sweet Corn (C)	7.8	S	4.9	3.0	4.0	MR	4.2	MR
13	Priya Sweet Corn (C)	7.6	S	4.1	1.9	3.0	R	4.1	MR
14	Res. Check	-	-	-	1.0	1.0	R	2.0	R
15	Sus. Check	7.9	S	6.7	8.1	7.4	S	8.5	S
16	Local Check	7.7	S	-	-	-	-	-	-

Contd.

Resistant Check:- C. ROT:- CoH 6 **(COIMBATORE); FSR:-** DMH 117 **(UDAIPUR)**

Susceptible Check:- C. ROT:- CM 600 **(LUDHIANA);** BML 6 **(HYDERABAD);** CM 501 **(COIMBATORE); FSR:-** SURYA **(UDAIPUR)**

Table-10

		C. Rust (1-9)		RDM (%)		SDM (%)		
		PZ		CWZ		PZ		
S.No	Genotype	DHAR	Reaction	UDAI	Reaction	MAND	COIM*	Reaction
1	FSCH 91	7.5	S	47.0	MS	80.5	25.0	S
2	ASKH 4	8.0	S	54.0	S	100.0	34.1	S
3	VEHS-16-1	6.5	S	47.0	MS	100.0	40.0	S
4	ASKH 6	8.5	S	50.0	MS	100.0	21.4	S
5	FSCH 55*	8.0	S	26.0	MS	100.0	64.3	S
6	Madhula	8.5	S	37.0	MS	100.0	58.3	S
7	BIO 4043	5.5	MS	18.0	MR	100.0	5.0	S
8	FSCH 75	8.5	S	28.0	MS	100.0	100.0	S
9	BSCH 6	8.5	S	73.0	S	100.0	100.0	S
10	MITHAS	8.5	S	73.0	S	100.0	15.0	S
11	Misthi (C)	8.0	S	16.0	MR	100.0	0.0	S
12	Madhuri Sweet Corn (C)	8.0	S	50.0	MS	100.0	0.0	S
13	Priya Sweet Corn (C)	7.5	S	100.0	S	100.0	50.0	S
14	Res. Check	7.5	S	10.0	R	17.5	0.0	MR
15	Sus. Check	4.0	MR	90.0	S	100.0	2.0	S
16	Local Check	8.0	S	-	-	-	-	-

*Data not considered due erratic disease pressure

Contd.

Resistant Check:- C. RUST:- CI 4 **(DHARWAD); RDM:-** DHM 117 **(UDAIPUR); SDM:-** NAH 1137 **(MANDYA)**

Susceptible Check:- C. RUST:- CM 202 **(DHARWAD); RDM:-** SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA)**

Table-10

		BSR (%)				CLS (1-9)				Cyst nematode	
		NWPZ		NHZ		CWZ		NHZ		CWZ	
S.No	Genotype	PANT	Reaction	DHAU	Reaction	UDAI	Reaction	DHAU	Reaction	UDAI	Reaction
1	FSCH 91	35.8	MS	31.3	MS	6.0	MS	3.5	MR	26--32	S
2	ASKH 4	5.6	R	26.2	MS	6.5	MS	1.5	R	18--26	S
3	VEHS-16-1	31.7	MS	22.0	MR	6.0	MS	2.5	R	25--33	S
4	ASKH 6	0.0	R	26.7	MS	6.5	MS	3.0	R	7--12	S
5	FSCH 55*	27.1	MS	35.1	MS	6.0	MS	2.0	R	8--16	S
6	Madhula	7.7	R	42.2	MS	6.5	MS	1.5	R	13--18	S
7	BIO 4043	12.5	MR	33.4	MS	6.0	MS	1.5	R	12--21	S
8	FSCH 75	62.5	S	43.1	MS	6.5	MS	1.0	R	14--19	S
9	BSCH 6	52.8	S	50.5	S	6.0	MS	1.0	R	24--33	S
10	MITHAS	0.0	R	39.9	MS	6.0	MS	1.0	R	30--37	S
11	Misthi (C)	8.3	R	32.6	MS	6.5	MS	2.0	R	19--26	S
12	Madhuri Sweet Corn (C)	38.2	MS	55.9	S	6.0	MS	3.5	MR	21--27	S
13	Priya Sweet Corn (C)	57.3	S	38.6	MS	6.0	MS	3.5	MR	14--19	S
14	Res. Check	-	-	-	-	1.5	R	-	-	2--6	MR
15	Sus. Check	85.0	S	64.4	S	8.5	S	2.8	R	32--42	S
16	Local Check	-	-	55.7	S	-	-	2.5	R	4--9	MR

Resistant Check:- Cyst Nematode:- Pratap H. Maize-3 **(UDAIPUR)**

Susceptible Check:- BSR:- CM 600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN); CLS:-** DKC 7074 **(DHAULAKUAN)**

Cyst Nematode:- Pratap makka-3 **(UDAIPUR)**

Table 11.Screening of specialty corn hybrids (Baby corn)

		Maydis leaf blight score (1-9)								
		NHZ		NWPZ					NEPZ	
S.No	Genotype	DHAU	Reaction	DELH	KARN	LUDH	Av. Score	Reaction	DHOL	Reaction
1	AH-5021	2.0	R	3.0	3.5	2.3	2.9	R	3.0	R
2	IMHB 1537	1.5	R	4.0	3.5	2.3	3.3	MR	4.0	MR
3	BVM-2	1.5	R	6.0	4.0	3.0	4.3	MR	6.5	MS
4	DMRHB 1305	1.5	R	4.0	4.0	2.0	3.3	MR	3.0	R
5	AH-7043	1.5	R	3.0	3.5	2.3	2.9	R	3.0	R
6	IMHB 1525	2.0	R	5.0	6.5	2.8	4.8	MR	4.5	MR
7	IMHB 1538	1.5	R	1.0	4.0	2.3	2.4	R	6.0	MS
8	MBC 11-15	3.0	R	NG	6.0	3.3	4.6	MR	6.0	MS
9	IMHB 1529	1.0	R	3.0	3.5	1.5	2.7	R	4.0	MR
10	IMHB 1531	1.0	R	4.0	4.0	1.8	3.3	MR	4.0	MR
11	GAYMH-1	1.0	R	3.0	6.5	3.3	4.3	MR	4.0	MR
12	IMHB 1539	1.5	R	1.0	6.0	2.3	3.1	MR	3.0	R
13	IMHB 1532	2.0	R	3.0	5.5	2.3	3.6	MR	3.0	R
14	HM 4 (C)	1.0	R	1.0	7.0	2.8	3.6	MR	6.0	MS
15	Sus. Check	3.5	MR	7.0	7.5	4.3	6.3	MS	8.0	S
16	Local Check	3.5	MR	-	-	3.8	3.8	MR	-	-

Contd.

Susceptible Check:- MLB:- DKC 7074 **(DHAULAKUAN);** CM 600 **(DELHI, KARNAL, LUDHIANA);** CML186 **(DHOLI)**

Table-11

Turcium leaf blight score (1-9)										
		NHZ					PZ			
S.No	Genotype	ALMO	BARA	BAJA	Av. Score	Reaction	MAND	DHAR	Av. Score	Reaction
1	AH-5021	5.0	4.1	2.3	3.8	MR	6.5	7.5	7.0	MS
2	IMHB 1537	5.0	1.0	2.0	2.7	R	1.5	4.0	2.8	R
3	BVM-2	5.0	3.8	2.5	3.8	MR	8.0	8.5	8.3	S
4	DMRHB 1305	2.0	2.3	2.0	2.1	R	1.5	3.0	2.3	R
5	AH-7043	2.0	5.1	2.0	3.0	R	5.5	7.0	6.3	MS
6	IMHB 1525	5.0	4.8	2.3	4.0	MR	3.0	7.5	5.3	MS
7	IMHB 1538	5.0	1.3	2.5	2.9	R	2.0	5.0	3.5	MR
8	MBC 11-15	5.0	5.4	2.3	4.2	MR	6.5	8.5	7.5	S
9	IMHB 1529	4.0	1.6	2.3	2.6	R	2.5	5.5	4.0	MR
10	IMHB 1531	3.0	1.8	2.0	2.3	R	3.5	3.5	3.5	MR
11	GAYMH-1	4.0	5.3	2.3	3.9	MR	6.0	9.0	7.5	S
12	IMHB 1539	5.0	2.9	1.8	3.2	MR	2.0	4.8	3.4	MR
13	IMHB 1532	3.0	1.1	2.0	2.0	R	2.0	1.0	1.5	R
14	HM 4 (C)	5.0	2.9	2.3	3.4	MR	3.0	7.5	5.3	MS
15	Res. Check	5.0	-	-	5.0	MR	3.0	4.0	3.5	MR
16	Sus. Check	-	6.0	4.3	5.1	MS	8.5	9.0	8.8	S
17	Local Check	-	-	4.0	4.0	MR	-	-	-	-

Contd.

Resistant Check:- TLB:- NAH 2049 **(MANDYA);** CI 4 **(DHARWAD)**
Susceptible Check:- TLB:- RCM 1-2 **(BARAPANI);** CM 202 **(BAJAURA, MANDYA, DHARWAD)**

Table-11

Banded leaf and sheath blight score (1-9)								
		NWPZ					NHZ	
S.No	Genotype	PANT	KARN	DELH	Av. Score	Reaction	DHAU*	Reaction
1	AH-5021	7.8	2.5	5.0	5.1	MS	2.5	R
2	IMHB 1537	7.0	5.5	8.0	6.8	MS	3.5	MR
3	BVM-2	9.0	5.5	8.0	7.5	S	2.5	R
4	DMRHB 1305	8.5	5.5	7.0	7.0	MS	1.0	R
5	AH-7043	8.5	4.5	8.0	7.0	MS	1.5	R
6	IMHB 1525	7.3	4.5	8.0	6.6	MS	1.5	R
7	IMHB 1538	7.5	7.0	5.0	6.5	MS	1.5	R
8	MBC 11-15	9.0	4.5	NG	6.8	MS	2.0	R
9	IMHB 1529	9.0	6.5	6.0	7.2	S	3.5	MR
10	IMHB 1531	8.8	4.0	5.0	5.9	MS	3.5	MR
11	GAYMH-1	8.8	5.0	7.0	6.9	MS	1.5	R
12	IMHB 1539	8.8	3.5	8.0	6.8	MS	1.0	R
13	IMHB 1532	7.3	6.0	7.0	6.8	MS	2.0	R
14	HM 4 (C)	7.8	6.0	5.0	6.3	MS	4.0	MR
15	Sus. Check	9.0	7.5	8.0	8.2	S	2.5	R
16	Local Check	-	-	-	-	-	2.5	R

*Data not considered due to low disease pressure

Contd.

Susceptible Check:- BLSB:- CM 600 **(PANTNAGAR, KRANAL);** CM 501 **(DELHI);** DKC 7074 **(DHAULAKUAN)**

Table-11

		Charcoal rot score (1-9)						FSR (1-9)	
		NWPZ		PZ				CWZ	
S.No	Genotype	LUDH	Reaction	HYDE	COIM	Av. Score	Reaction	UDAI	Reaction
1	AH-5021	7.6	S	3.7	3.2	3.5	MR	3.6	MR
2	IMHB 1537	7.8	S	3.5	3.7	3.6	MR	3.4	MR
3	BVM-2	8.1	S	4.2	2.3	3.2	MR	3.7	MR
4	DMRHB 1305	8.0	S	4.6	4.6	4.6	MR	3.1	MR
5	AH-7043	7.7	S	3.9	1.1	2.5	R	3.6	MR
6	IMHB 1525	8.3	S	3.9	3.4	3.7	MR	3.3	MR
7	IMHB 1538	7.9	S	3.5	1.8	2.7	R	3.6	MR
8	MBC 11-15	7.7	S	3.8	1.1	2.5	R	3.6	MR
9	IMHB 1529	6.4	MS	4.0	1.2	2.6	R	3.9	MR
10	IMHB 1531	6.8	MS	3.2	2.6	2.9	R	3.5	MR
11	GAYMH-1	6.1	MS	3.3	2.4	2.8	R	3.5	MR
12	IMHB 1539	8.3	S	2.9	3.7	3.3	MR	3.8	MR
13	IMHB 1532	8.7	S	3.5	5.7	4.6	MR	3.7	MR
14	HM 4 (C)	7.5	S	3.8	1.2	2.5	R	2.8	R
15	Res. Check	-	-	-	1.0	1.0	R	2.5	R
16	Sus. Check	7.8	S	6.7	8.4	7.6	S	8.5	S
17	Local Check	7.9	-	-	-	-	-	-	-

Contd.

Resistant Check:- C. ROT:- CoH 6 **(COIMBATORE); FSR:-** DMH 117 **(UDAIPUR)**
Susceptible Check:- C. ROT:- CM 600 **(LUDHIANA);** BML 6 **(HYDERABAD);** CM 501 **(COIMBATORE); FSR:-** SURYA **(UDAIPUR)**

Table-11

		C. Rust (1-9)		RDM (%)		SDM (%)		
		PZ		CWZ		PZ		
S.No	Genotype	DHAR	Reaction	UDAI	Reaction	MAND	COIM*	Reaction
1	AH-5021	2.0	R	40.0	MS	100.0	85.8	S
2	IMHB 1537	3.0	MR	33.0	MS	100.0	57.5	S
3	BVM-2	4.0	MR	50.0	MS	100.0	74.1	S
4	DMRHB 1305	5.5	MS	0.0	R	100.0	3.6	S
5	AH-7043	8.3	S	0.0	R	100.0	7.1	S
6	IMHB 1525	4.0	MR	0.0	R	100.0	41.8	S
7	IMHB 1538	6.5	S	12.5	MR	100.0	79.4	S
8	MBC 11-15	8.5	S	42.0	MS	100.0	66.7	S
9	IMHB 1529	4.0	MR	12.5	MR	100.0	53.8	S
10	IMHB 1531	4.0	MR	22.0	MR	100.0	55.0	S
11	GAYMH-1	2.5	MR	23.0	MR	100.0	81.7	S
12	IMHB 1539	3.5	MR	31.0	MS	100.0	12.5	S
13	IMHB 1532	3.0	MR	8.0	R	100.0	28.5	S
14	HM 4 (C)	6.5	S	36.0	MS	100.0	32.5	S
15	Res. Check	4.0	MR	10.0	R	11.8	0.0	MR
16	Sus. Check	8.0	S	90.0	S	90.0	10.0	S

*Data not considered due erratic disease pressure

Contd.

Resistant Check:- C. RUST:- CI 4 **(DHARWAD); RDM:-** DHM 117 **(UDAIPUR); SDM:-** NAH 1137 **(MANDYA)**

Susceptible Check:- C. RUST:- CM 202 **(DHARWAD); RDM:-** SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA)**

Table-11

		BSR (%)				CLS (1-9)				Cyst nematode	
		NWPZ		NHZ		CWZ		NHZ		CWZ	
S.No	Genotype	PANT	Reaction	DHAU	Reaction	UDAI	Reaction	DHAU	Reaction	UDAI	Reaction
1	AH-5021	0.0	R	34.8	MS	6.0	MS	1.0	R	19--26	S
2	IMHB 1537	10.1	MR	38.7	MS	2.0	R	2.0	R	10--16	S
3	BVM-2	73.1	S	39.0	MS	6.0	MS	2.0	R	14--21	S
4	DMRHB 1305	100.0	S	38.9	MS	3.5	MR	1.0	R	10--18	S
5	AH-7043	7.7	R	44.5	MS	2.5	R	1.0	R	8--14	S
6	IMHB 1525	0.0	R	45.2	MS	3.0	R	2.0	R	11--20	S
7	IMHB 1538	0.0	R	48.4	MS	1.5	R	1.5	R	7--12	S
8	MBC 11-15	33.8	MS	43.3	MS	6.5	MS	2.5	R	24--32	S
9	IMHB 1529	50.0	MS	50.0	MS	1.5	R	1.0	R	20--28	S
10	IMHB 1531	6.3	R	51.9	S	1.0	R	1.0	R	16--26	S
11	GAYMH-1	7.9	R	42.0	MS	5.0	MR	1.5	R	17--24	S
12	IMHB 1539	46.4	MS	40.2	MS	1.5	R	1.5	R	8--13	S
13	IMHB 1532	9.4	R	42.2	MS	1.5	R	1.5	R	13--23	S
14	HM 4 (C)	24.4	MR	42.2	MS	1.5	R	1.5	R	9--18	S
15	Res. Check	-	-	-	-	1.5	R	-	-	3--7	MR
16	Sus. Check	90.0	S	64.2	S	8.5	S	2.8	R	25--35	S
17	Local Check	-	-	62.9	S	-	-	2.5	R	5--9	MR

Resistant Check:- Cyst Nematode:- Pratap H. Maize-3 **(UDAIPUR)**
Susceptible Check:- BSR:- CM 600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN); CLS:-** DKC 7074 **(DHAULAKUAN)**
Cyst Nematode:- Pratap makka-3 **(UDAIPUR)**

Table 12. Screening of specialty corn hybrids (QPM)

		Maydis leaf blight score (1-9)								
		NHZ		NWPZ					NEPZ	
S.No	Genotype	DHAU	Reaction	DELH	KARN	LUDH	Av. Score	Reaction	DHOL	Reaction
1	QPM-MH-27	1.0	R	4.0	5.5	1.5	3.7	MR	4.0	MR
2	IIMRQPMH 1501	1.0	R	1.0	6.5	2.0	3.2	MR	2.5	R
3	VEHQ-16-1	3.5	MR	1.0	5.5	1.5	2.7	R	4.5	MR
4	IMHQPM 1530	1.0	R	4.0	3.5	2.0	3.2	MR	5.0	MR
5	IIMRQPMH 1608	1.0	R	4.0	5.5	1.8	3.8	MR	6.0	MS
6	IIMRQPMH 1605	3.5	MR	2.0	5.0	2.3	3.1	MR	6.5	MS
7	IIMRQPMH 1603	3.0	R	3.0	5.5	1.5	3.3	MR	6.0	MS
8	FQH 106	2.5	R	4.0	6.5	1.8	4.1	MR	4.5	MR
9	IIMRQPMH 1606	1.0	R	1.0	7.0	2.3	3.4	MR	4.0	MR
10	IIMRQPMH 1508	1.0	R	3.0	8.0	2.3	4.4	MR	4.5	MR
11	KDQH-51	2.5	R	5.0	4.0	2.0	3.7	MR	6.0	MS
12	IIMRQPMH 1601	1.0	R	3.0	4.5	1.8	3.1	MR	4.0	MR
13	IIMRQPMH 1609	3.0	R	3.0	7.5	2.3	4.3	MR	5.0	MR
14	IIMRQPMH 1604	1.0	R	5.0	4.0	1.5	3.5	MR	2.5	R
15	IIMRQPMH 1607	3.0	R	5.0	5.5	1.8	4.1	MR	5.0	MR
16	IIMRQPMH 1504	1.0	R	3.0	7.0	1.8	3.9	MR	5.0	MR
17	IIMRQPMH 1502	1.5	R	4.0	4.0	2.0	3.3	MR	2.5	R
18	REHQ2014-11	1.0	R	1.0	3.5	1.5	2.0	R	2.5	R
19	IIMRQPMH 1610	2.5	R	6.0	6.5	1.8	4.8	MR	4.0	MR
20	IIMRQPMH 1602	1.0	R	3.0	5.5	1.8	3.4	MR	6.0	MS
21	BQPMH 16	1.0	R	5.0	4.0	1.8	3.6	MR	5.0	MR
22	Pratap QPM Hybrid 1 (C)	3.0	R	3.0	6.0	1.8	3.6	MR	7.0	MS
23	Vivek QPM 9 (C)	1.0	R	4.0	3.5	1.8	3.1	MR	4.0	MR
24	HQPM 1 (C)	4.5	MR	3.0	5.0	1.8	3.3	MR	6.0	MS
25	HQPM 4 (C)	2.5	R	4.0	6.0	1.5	3.8	MR	2.5	R
26	HQPM 5 (C)	1.0	R	1.0	5.5	1.8	2.8	R	5.0	MR
27	HQPM 7 (C)	3.0	R	1.0	6.0	1.5	2.8	R	3.0	R
28	Sus. Check	3.5	MR	7.0	7.5	4.3	6.3	MS	8.0	S
29	Local Check	3.5	MR	-	-	3.3	3.3	MR	-	-

Contd.

Susceptible Check:- MLB:- DKC 7074 **(DHAULAKUAN);** CM 600 **(DELHI, KARNAL, LUDHIANA);** CML186 **(DHOLI)**

Table-12

Turcium leaf blight score (1-9)										
		NHZ					PZ			
S.No	Genotype	ALMO	BARA	BAJA	Av. Score	Reaction	MAND	DHAR	Av. Score	Reaction
1	QPM-MH-27	1.0	1.0	2.0	1.3	R	2.0	2.0	2.0	R
2	IIMRQPMH 1501	3.0	1.0	2.0	2.0	R	1.5	2.0	1.8	R
3	VEHQ-16-1	5.0	2.7	2.3	3.3	MR	4.0	9.0	6.5	MS
4	IMHQPM 1530	5.0	1.0	2.0	2.7	R	3.0	5.0	4.0	MR
5	IIMRQPMH 1608	3.0	1.0	2.0	2.0	R	1.5	4.0	2.8	R
6	IIMRQPMH 1605	3.0	1.0	2.3	2.1	R	2.5	6.0	4.3	MR
7	IIMRQPMH 1603	2.0	1.0	1.8	1.6	R	2.0	2.5	2.3	R
8	FQH 106	1.0	1.0	2.3	1.4	R	3.5	5.0	4.3	MR
9	IIMRQPMH 1606	3.0	1.0	2.0	2.0	R	2.0	5.0	3.5	MR
10	IIMRQPMH 1508	3.0	1.0	2.3	2.1	R	3.0	7.5	5.3	MS
11	KDQH-51	5.0	2.7	2.3	3.3	MR	5.0	7.3	6.1	MS
12	IIMRQPMH 1601	3.0	1.0	1.8	1.9	R	3.5	4.0	3.8	MR
13	IIMRQPMH 1609	1.0	1.0	2.0	1.3	R	2.0	3.5	2.8	R
14	IIMRQPMH 1604	3.0	1.0	2.0	2.0	R	3.5	7.8	5.6	MS
15	IIMRQPMH 1607	5.0	5.4	2.5	4.3	MR	3.0	8.0	5.5	MS
16	IIMRQPMH 1504	3.0	1.3	2.0	2.1	R	2.5	2.0	2.3	R
17	IIMRQPMH 1502	5.0	1.0	2.5	2.8	R	2.5	6.0	4.3	MR
18	REHQ2014-11	6.0	3.8	2.5	4.1	MR	2.0	7.3	4.6	MR
19	IIMRQPMH 1610	4.0	2.3	2.3	2.9	R	6.0	6.0	6.0	MS
20	IIMRQPMH 1602	5.0	1.0	2.0	2.7	R	1.5	2.5	2.0	R
21	BQPMH 16	3.0	2.7	2.0	2.6	R	4.0	5.5	4.8	MR
22	Pratap QPM Hybrid 1 (C)	5.0	1.0	1.8	2.6	R	1.5	2.5	2.0	R
23	Vivek QPM 9 (C)	5.0	1.4	2.8	3.1	MR	6.0	4.3	5.1	MS
24	HQPM 1 (C)	1.0	2.0	2.0	1.7	R	2.0	3.5	2.8	R
25	HQPM 4 (C)	5.0	1.1	1.8	2.6	R	1.0	2.5	1.8	R
26	HQPM 5 (C)	4.0	1.2	2.0	2.4	R	2.0	1.5	1.8	R
27	HQPM 7 (C)	1.0	1.0	2.3	1.4	R	1.5	3.0	2.3	R
28	Res. Check	1.0	-	-	1.0	R	2.5	4.0	3.3	MR
29	Sus. Check	-	5.9	4.5	5.2	MS	7.0	9.0	8.0	S
30	Local Check	-	-	4.3	4.3	MR	-	-	-	-

Contd.

Resistant Check:- TLB:- NAH 2049 **(MANDYA);** CI 4 **(DHARWAD)**
Susceptible Check:- TLB:- RCM 1-2 **(BARAPANI);** CM 202 **(BAJAURA, MANDYA, DHARWAD)**

Table-12

Banded leaf and sheath blight score (1-9)								
		NWPZ					NHZ	
S.No	Genotype	PANT	KARN	DELH	Av. Score	Reaction	DHAU*	Reaction
1	QPM-MH-27	5.5	3.5	7.0	5.3	MS	3.5	MR
2	IIMRQPMH 1501	7.5	4.5	7.0	6.3	MS	1.5	R
3	VEHQ-16-1	9.0	6.5	8.0	7.8	S	1.5	R
4	IMHQPM 1530	9.0	5.0	8.0	7.3	S	2.0	R
5	IIMRQPMH 1608	8.0	6.0	8.0	7.3	S	3.5	MR
6	IIMRQPMH 1605	8.5	4.5	8.0	7.0	MS	1.5	R
7	IIMRQPMH 1603	6.0	6.5	7.0	6.5	MS	4.0	MR
8	FQH 106	9.0	7.0	7.0	7.7	S	1.5	R
9	IIMRQPMH 1606	7.5	7.5	8.0	7.7	S	3.5	MR
10	IIMRQPMH 1508	8.5	7.5	5.0	7.0	MS	3.5	MR
11	KDQH-51	9.0	4.5	8.0	7.2	S	1.5	R
12	IIMRQPMH 1601	8.8	4.0	8.0	6.9	MS	2.5	R
13	IIMRQPMH 1609	4.0	NG	6.0	5.0	MR	1.5	R
14	IIMRQPMH 1604	8.0	4.5	8.0	6.8	MS	3.5	MR
15	IIMRQPMH 1607	6.0	6.5	8.0	6.8	MS	2.0	R
16	IIMRQPMH 1504	8.5	4.0	7.0	6.5	MS	3.5	MR
17	IIMRQPMH 1502	8.3	4.5	6.0	6.3	MS	1.0	R
18	REHQ2014-11	7.5	4.5	7.0	6.3	MS	4.0	MR
19	IIMRQPMH 1610	8.5	3.5	8.0	6.7	MS	3.5	MR
20	IIMRQPMH 1602	7.5	3.5	7.0	6.0	MS	3.0	R
21	BQPMH 16	6.5	5.5	8.0	6.7	MS	4.0	MR
22	Pratap QPM Hybrid 1 (C)	7.5	8.0	8.0	7.8	S	1.5	R
23	Vivek QPM 9 (C)	9.0	4.5	7.0	6.8	MS	2.0	R
24	HQPM 1 (C)	7.5	4.0	7.0	6.2	MS	2.5	R
25	HQPM 4 (C)	7.5	8.0	6.0	7.2	S	2.0	R
26	HQPM 5 (C)	6.0	4.5	5.0	5.2	MS	2.5	R
27	HQPM 7 (C)	7.3	5.5	6.0	6.3	MS	1.5	R
28	Sus. Check	9.0	7.5	8.0	8.2	S	3.0	R
29	Local Check	-	-	-	-	-	3.5	MR

*Data not considered due to low disease pressure

Contd.

Susceptible Check:- BLSB:- CM 600 **(PANTNAGAR, KRANAL);** CM 501 **(DELHI);** DKC 7074 **(DHAULKUAN)**

Table-12

		Charcoal rot score (1-9)						FSR (1-9)	
		NWPZ		PZ				CWZ	
S.No	Genotype	LUDH	Reaction	HYDE	COIM	Av. Score	Reaction	UDAI	Reaction
1	QPM-MH-27	6.9	MS	3.2	2.6	2.9	R	4.3	MR
2	IIMRQPMH 1501	7.2	S	2.2	3.8	3.0	R	3.7	MR
3	VEHQ-16-1	7.7	S	3.7	6.2	4.9	MR	3.8	MR
4	IMHQPM 1530	8.1	S	3.1	3.4	3.2	MR	4.2	MR
5	IIMRQPMH 1608	7.6	S	2.6	1.3	2.0	R	3.8	MR
6	IIMRQPMH 1605	7.3	S	3.5	2.9	3.2	MR	3.4	MR
7	IIMRQPMH 1603	5.7	MS	2.3	2.4	2.3	R	3.6	MR
8	FQH 106	7.1	S	2.2	3.9	3.0	R	3.7	MR
9	IIMRQPMH 1606	7.7	S	3.0	6.7	4.8	MR	3.5	MR
10	IIMRQPMH 1508	5.5	MS	3.6	3.9	3.7	MR	2.5	R
11	KDQH-51	7.7	S	2.8	6.5	4.6	MR	3.5	MR
12	IIMRQPMH 1601	6.4	MS	1.8	2.8	2.3	R	3.4	MR
13	IIMRQPMH 1609	6.8	MS	3.2	1.2	2.2	R	3.4	MR
14	IIMRQPMH 1604	6.6	MS	3.5	1.3	2.4	R	4.4	MR
15	IIMRQPMH 1607	8.5	S	3.0	2.0	2.5	R	3.8	MR
16	IIMRQPMH 1504	6.4	MS	4.1	1.1	2.6	R	4.7	MR
17	IIMRQPMH 1502	8.0	S	4.1	1.9	3.0	R	3.5	MR
18	REHQ2014-11	6.5	MS	3.2	3.4	3.3	MR	4.3	MR
19	IIMRQPMH 1610	8.4	S	4.0	1.3	2.6	R	3.7	MR
20	IIMRQPMH 1602	5.8	MS	1.9	1.9	1.9	R	4.1	MR
21	BQPMH 16	7.0	MS	2.5	2.7	2.6	R	3.4	MR
22	Pratap QPM Hybrid 1 (C)	6.4	MS	2.0	3.5	2.8	R	6.0	MS
23	Vivek QPM 9 (C)	6.2	MS	3.2	1.3	2.3	R	2.9	R
24	HQPM 1 (C)	7.3	S	2.3	2.9	2.6	R	4.0	MR
25	HQPM 4 (C)	6.4	MS	2.8	1.6	2.2	R	4.5	MR
26	HQPM 5 (C)	7.5	S	3.1	2.8	2.9	R	3.9	MR
27	HQPM 7 (C)	3.7	MR	3.7	1.1	2.4	R	4.2	MR
28	Res. Check	-	-	-	1.2	1.2	R	2.5	R
29	Sus. Check	7.2	S	6.7	8.6	7.7	S	8.0	S
30	Local Check	7.3	S	-	-	-	-	-	-

Contd.

Resistant Check:- C. ROT:- CoH 6 **(COIMBATORE); FSR:-** DMH 117 **(UDAIPUR)**
Susceptible Check:- C. ROT:- CM 600 **(LUDHIANA);** BML 6 **(HYDERABAD);** CM 501 **(COIMBATORE); FSR:-** SURYA **(UDAIPUR)**

Table-12

		C. Rust (1-9)		RDM (%)		SDM (%)		
		PZ		CWZ		PZ		
S.No	Genotype	DHAR	Reaction	UDAI	Reaction	MAND	COIM*	Reaction
1	QPM-MH-27	3.0	MR	7.0	R	100.0	0.0	S
2	IIMRQPMH 1501	2.0	R	9.0	R	100.0	14.3	S
3	VEHQ-16-1	6.5	S	0.0	R	100.0	20.0	S
4	IMHQPM 1530	9.0	S	50.0	MS	100.0	0.0	S
5	IIMRQPMH 1608	4.0	MR	0.0	R	100.0	30.0	S
6	IIMRQPMH 1605	8.5	S	10.0	R	100.0	100.0	S
7	IIMRQPMH 1603	9.0	S	7.0	R	100.0	91.7	S
8	FQH 106	8.0	S	0.0	R	100.0	0.0	S
9	IIMRQPMH 1606	5.5	MS	8.0	R	100.0	0.0	S
10	IIMRQPMH 1508	7.0	S	8.0	R	100.0	0.0	S
11	KDQH-51	8.0	S	9.0	R	98.1	60.0	S
12	IIMRQPMH 1601	7.5	S	0.0	R	100.0	0.0	S
13	IIMRQPMH 1609	3.0	MR	7.0	R	100.0	100.0	S
14	IIMRQPMH 1604	7.5	S	0.0	R	100.0	60.0	S
15	IIMRQPMH 1607	4.5	MS	7.0	R	100.0	60.0	S
16	IIMRQPMH 1504	4.5	MS	0.0	R	100.0	80.0	S
17	IIMRQPMH 1502	9.0	S	0.0	R	100.0	100.0	S
18	REHQ2014-11	7.0	S	0.0	R	100.0	66.6	S
19	IIMRQPMH 1610	6.5	S	0.0	R	100.0	50.0	S
20	IIMRQPMH 1602	7.0	S	0.0	R	100.0	100.0	S
21	BQPMH 16	9.0	S	0.0	R	96.0	0.0	S
22	Pratap QPM Hybrid 1 (C)	7.5	S	0.0	R	100.0	20.0	S
23	Vivek QPM 9 (C)	9.0	S	8.0	R	100.0	40.0	S
24	HQPM 1 (C)	6.0	MS	0.0	R	85.7	0.0	S
25	HQPM 4 (C)	2.0	R	22.0	MR	100.0	40.0	S
26	HQPM 5 (C)	2.0	R	8.0	R	100.0	0.0	S
27	HQPM 7 (C)	5.3	MS	18.0	MR	100.0	100.0	S
28	Res. Check	4.0	MR	10.0	R	11.8	0.0	MR
29	Sus. Check	8.0	S	90.0	S	85.0	0.0	MS

*Data not considered due erratic disease pressure

Contd.

Resistant Check:- C. RUST:- CI 4 **(DHARWAD); RDM:-** DHM 117 **(UDAIPUR); SDM:-** NAH 1137 **(MANDYA)**

Susceptible Check:- C. RUST:- CM 202 **(DHARWAD); RDM:-** SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA)**

Table-12

		BSR (%)		CLS (1-9)				Cyst nematode			
		NWPZ		NHZ		CWZ		NHZ		CWZ	
S.No	Genotype	PANT	Reaction	DHAU	Reaction	UDAI	Reaction	DHAU	Reaction	UDAI	Reaction
1	QPM-MH-27	16.2	MR	28.6	MS	1.5	R	1.0	R	11--18	S
2	IIMRQPMH 1501	8.3	R	28.5	MS	2.5	R	1.5	R	12--22	S
3	VEHQ-16-1	73.3	S	19.6	MR	6.5	MS	1.5	R	33--40	S
4	IMHQPM 1530	90.0	S	32.3	MS	1.5	R	1.0	R	13--18	S
5	IIMRQPMH 1608	55.0	S	24.5	MR	6.5	MS	1.5	R	30--42	S
6	IIMRQPMH 1605	77.5	S	20.9	MR	3.0	R	1.0	R	15--22	S
7	IIMRQPMH 1603	23.6	MR	24.2	MR	1.5	R	1.0	R	20--26	S
8	FQH 106	87.5	S	23.5	MR	2.0	R	1.0	R	24--32	S
9	IIMRQPMH 1606	75.0	S	19.7	MR	6.5	MS	1.5	R	10--17	S
10	IIMRQPMH 1508	21.6	MR	25.4	MS	6.0	MS	1.0	R	29--38	S
11	KDQH-51	59.0	S	25.0	MR	6.0	MS	1.0	R	36--48	S
12	IIMRQPMH 1601	51.9	S	20.8	MR	2.5	R	1.5	R	18--23	S
13	IIMRQPMH 1609	0.0	R	23.0	MR	6.5	MS	1.0	R	17--25	S
14	IIMRQPMH 1604	23.8	MR	26.7	MS	6.5	MS	1.0	R	23--33	S
15	IIMRQPMH 1607	8.3	R	32.1	MS	6.5	MS	2.0	R	17--21	S
16	IIMRQPMH 1504	64.3	S	36.0	MS	1.5	R	1.0	R	8--14	S
17	IIMRQPMH 1502	93.8	S	33.4	MS	1.5	R	1.5	R	27--36	S
18	REHQ2014-11	58.3	S	36.2	MS	1.5	R	1.5	R	22--28	S
19	IIMRQPMH 1610	29.2	MS	38.1	MS	1.0	R	1.5	R	27--38	S
20	IIMRQPMH 1602	9.1	R	27.0	MS	2.0	R	1.0	R	14--20	S
21	BQPMH 16	10.8	MR	34.3	MS	2.0	R	1.5	R	5--8	MR
22	Pratap QPM Hybrid 1 (C)	77.5	S	27.5	MS	3.0	R	1.0	R	17--24	S
23	Vivek QPM 9 (C)	78.0	S	26.9	MS	6.5	MS	1.0	R	28--33	S
24	HQPM 1 (C)	22.7	MR	20.1	MR	1.0	R	1.0	R	19--26	S
25	HQPM 4 (C)	0.0	R	31.9	MS	2.5	R	1.0	R	10--19	S
26	HQPM 5 (C)	15.0	MR	28.5	MS	1.5	R	1.0	R	6--9	MR
27	HQPM 7 (C)	41.4	MS	31.1	MS	3.5	MR	1.0	R	13--18	S
28	Res. Check	-	-	-	-	1.8	R	-	-	1--5	MR
29	Sus. Check	85.0	S	63.8	S	8.5	S	2.8	R	28--36	S
30	Local Check	-	-	64.7	S	-	-	2.5	R	3--8	MR

Resistant Check:- Cyst Nematode:- Pratap H. Maize-3 **(UDAIPUR)**
Susceptible Check:- BSR:- CM 600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN); CLS:-** DKC 7074 **(DHAULAKUAN); Cyst Nematode:-** Pratap makka-3 **(UDAIPUR)**

Table13. Screening of mapping populations (M-12) for MLB

Maydis leaf blight (1-9)								
		NEPZ		NWPZ				
S.No	Genotype	DHOL	Reaction	LUDH	KARN	DELH	Av. Score	Reaction
1	IML12-2	7.0	MS	4.0	6.0	8.0	6.0	MS
2	IML12-3	3.0	R	3.0	4.0	7.0	4.7	MR
3	IML12-4	3.0	R	3.0	4.0	7.0	4.7	MR
4	IML12-5	5.0	MR	4.0	5.0	8.0	5.7	MS
5	IML12-6	3.0	R	3.0	3.0	3.0	3.0	R
6	IML12-7	5.0	MR	4.0	4.0	8.0	5.3	MS
7	IML12-8	6.0	MS	2.0	4.0	7.0	4.3	MR
8	IML12-9	3.0	R	3.0	3.0	3.0	3.0	R
9	IML12-10	5.0	MR	3.0	6.0	8.0	5.7	MS
10	IML12-11	4.0	MR	3.0	7.0	8.0	6.0	MS
11	IML12-12	4.0	MR	4.0	8.0	8.0	6.7	MS
12	IML12-13	5.0	MR	3.0	6.0	8.0	5.7	MS
13	IML12-14	6.0	MS	5.0	8.0	8.0	7.0	MS
14	IML12-15	8.0	S	4.0	7.0	8.0	6.3	MS
15	IML12-16	3.0	R	3.0	6.0	8.0	5.7	MS
16	IML12-17	3.0	R	3.0	5.0	8.0	5.3	MS
17	IML12-18	5.0	MR	4.0	9.0	8.0	7.0	MS
18	IML12-19	3.0	R	3.0	3.0	3.0	3.0	R
19	IML12-20	6.0	MS	5.0	8.0	8.0	7.0	MS
20	IML12-21	6.0	MS	4.0	9.0	8.0	7.0	MS
21	IML12-22	4.0	MR	4.0	8.0	6.0	6.0	MS
22	IML12-23	3.0	R	3.0	4.0	8.0	5.0	MR
23	IML12-24	3.0	R	3.0	6.0	7.0	5.3	MS
24	IML12-25	2.0	R	3.0	8.0	8.0	6.3	MS
25	IML12-27	4.0	MR	5.0	4.0	8.0	5.7	MS
26	IML12-28	3.0	R	3.0	4.0	7.0	4.7	MR
27	IML12-29	5.0	MR	3.0	6.0	7.0	5.3	MS
28	IML12-32	6.0	MS	4.0	7.0	7.0	6.0	MS
29	IML12-34	3.0	R	2.0	9.0	8.0	6.3	MS
30	IML12-35	3.0	R	3.0	4.0	8.0	5.0	MR
31	IML12-36	4.0	MR	4.0	4.0	7.0	5.0	MR
32	IML12-38	5.0	MR	3.0	9.0	6.0	6.0	MS
33	IML12-39	3.0	R	4.0	4.0	7.0	5.0	MR
34	IML12-40	5.0	MR	5.0	6.0	NG	5.5	MS
35	IML12-41	3.0	R	4.0	7.0	8.0	6.3	MS
36	IML12-42	4.0	MR	7.0	8.0	7.0	7.3	S
37	IML12-43	3.0	R	3.0	6.0	8.0	5.7	MS
38	IML12-44	3.0	R	4.0	6.0	8.0	6.0	MS
39	IML12-45	6.0	MS	5.0	9.0	8.0	7.3	S
40	IML12-47	4.0	MR	3.0	8.0	8.0	6.3	MS
41	IML12-48	5.0	MR	4.0	6.0	8.0	6.0	MS
42	IML12-49	3.0	R	3.0	4.0	7.0	4.7	MR
43	IML12-50	2.0	R	3.0	3.0	2.0	2.7	R
44	IML12-52	5.0	MR	4.0	9.0	8.0	7.0	MS
45	IML12-53	4.0	MR	4.0	6.0	7.0	5.7	MS
46	IML12-54	3.0	R	4.0	4.0	7.0	5.0	MR
47	IML12-55	5.0	MR	2.0	4.0	3.0	3.0	R
48	IML12-57	3.0	R	3.0	3.0	3.0	3.0	R
49	SUS Check CM 600	8.0	S	6.5	NG	NG	6.5	MS
50	IML12-58	3.0	R	4.0	4.0	7.0	5.0	MR
51	IML12-59	7.0	MS	5.0	4.0	6.0	5.0	MR

Contd.

Table-13

Maydis leaf blight (1-9)								
		NEPZ				NWPZ		
S.No	Genotype	DHOL	Reaction	LUDH	KARN	DELH	Av. Score	Reaction
52	IML12-60	6.0	MS	3.0	6.0	6.0	5.0	MR
53	IML12-62	3.0	R	3.0	3.0	3.0	3.0	R
54	IML12-63	5.0	MR	3.0	4.0	6.0	4.3	MR
55	IML12-64	2.0	R	3.0	4.0	8.0	5.0	MR
56	IML12-65	3.0	R	4.0	4.0	8.0	5.3	MS
57	IML12-66	3.0	R	4.0	3.0	6.0	4.3	MR
58	IML12-67	3.0	R	4.0	9.0	6.0	6.3	MS
59	IML12-68	4.0	MR	5.0	7.0	6.0	6.0	MS
60	IML12-69	3.0	R	4.0	6.0	6.0	5.3	MS
61	IML12-70	6.0	MS	6.0	5.0	6.0	5.7	MS
62	IML12-71	2.0	R	5.0	3.0	7.0	5.0	MR
63	IML12-72	3.0	R	6.0	NG	7.0	6.5	MS
64	IML12-73	5.0	MR	5.0	4.0	6.0	5.0	MR
65	IML12-75	6.0	MS	6.0	8.0	5.0	6.3	MS
66	IML12-76	3.0	R	4.0	7.0	7.0	6.0	MS
67	IML12-77	4.0	MR	5.0	7.0	7.0	6.3	MS
68	IML12-78	3.0	R	4.0	9.0	6.0	6.3	MS
69	IML12-79	5.0	MR	4.0	4.0	6.0	4.7	MR
70	IML12-80	3.0	R	5.0	4.0	5.0	4.7	MR
71	IML12-81	4.0	MR	3.0	6.0	6.0	5.0	MR
72	IML12-82	6.0	MS	3.0	4.0	5.0	4.0	MR
73	IML12-83	3.0	R	3.0	3.0	3.0	3.0	R
74	IML12-86	2.0	R	4.0	4.0	7.0	5.0	MR
75	IML12-87	5.0	MR	4.0	3.0	5.0	4.0	MR
76	IML12-88	3.0	R	3.0	6.0	5.0	4.7	MR
77	IML12-89	6.0	MS	6.0	4.0	7.0	5.7	MS
78	IML12-90	8.0	S	7.0	3.0	6.0	5.3	MS
79	IML12-91	5.0	MR	5.0	4.0	6.0	5.0	MR
80	IML12-92	3.0	R	3.0	4.0	6.0	4.3	MR
81	IML12-93	4.0	MR	4.0	4.0	6.0	4.7	MR
82	IML12-94	5.0	MR	5.0	5.0	7.0	5.7	MS
83	IML12-95	6.0	MS	5.0	3.0	7.0	5.0	MR
84	IML12-96	3.0	R	5.0	9.0	6.0	6.7	MS
85	IML12-97	3.0	R	4.0	8.0	7.0	6.3	MS
86	IML12-98	3.0	R	3.0	6.0	5.0	4.7	MR
87	IML12-99	2.0	R	3.0	3.0	2.0	2.7	R
88	IML12-100	5.0	MR	6.0	4.0	6.0	5.3	MS
89	IML12-101	3.0	R	5.0	4.0	6.0	5.0	MR
90	IML12-102	5.0	MR	6.0	4.0	7.0	5.7	MS
91	IML12-103	4.0	MR	4.0	3.0	6.0	4.3	MR
92	IML12-104	5.0	MR	5.0	3.0	6.0	4.7	MR
93	IML12-105	4.0	MR	4.0	4.0	8.0	5.3	MS
94	IML12-106	3.0	R	5.0	5.0	6.0	5.3	MS
95	IML12-108	2.0	R	4.0	3.0	7.0	4.7	MR
96	IML12-109	5.0	MR	3.0	4.0	7.0	4.7	MR
97	IML12-110	5.0	MR	4.0	3.0	5.0	4.0	MR
98	IML12-111	7.0	MS	4.0	6.0	5.0	5.0	MR
99	IML12-112	4.0	MR	4.0	4.0	7.0	5.0	MR
100	SUS Check CM 600	8.0	S	6.5	9.0	NG	7.8	S
101	IML12-113	6.0	MS	6.0	4.0	7.0	5.7	MS
102	IML12-114	3.0	R	5.0	6.0	8.0	6.3	MS
103	IML12-115	2.0	R	4.0	6.0	7.0	5.7	MS
104	IML12-116	3.0	R	3.0	5.0	6.0	4.7	MR

Contd.

Table-13

Maydis leaf blight (1-9)								
		NEPZ		NWPZ				
S.No	Genotype	DHOL	Reaction	LUDH	KARN	DELH	Av. Score	Reaction
105	IML12-117	3.0	R	3.0	6.0	6.0	5.0	MR
106	IML12-118	4.0	MR	5.0	3.0	6.0	4.7	MR
107	IML12-119	5.0	MR	4.0	3.0	7.0	4.7	MR
108	IML12-120	4.0	MR	6.0	5.0	6.0	5.7	MS
109	IML12-121	3.0	R	4.0	4.0	7.0	5.0	MR
110	IML12-122	4.0	MR	3.0	7.0	6.0	5.3	MS
111	IML12-123	2.0	R	3.0	4.0	6.0	4.3	MR
112	IML12-125	5.0	MR	3.0	9.0	5.0	5.7	MS
113	IML12-126	2.0	R	4.0	4.0	5.0	4.3	MR
114	IML12-127	2.0	R	3.0	5.0	6.0	4.7	MR
115	IML12-128	5.0	MR	4.0	3.0	6.0	4.3	MR
116	IML12-129	3.0	R	2.0	3.0	2.0	2.3	R
117	IML12-130	4.0	MR	3.0	7.0	6.0	5.3	MS
118	IML12-131	5.0	MR	4.0	4.0	6.0	4.7	MR
119	IML12-132	3.0	R	3.0	6.0	6.0	5.0	MR
120	IML12-133	4.0	MR	6.0	3.0	6.0	5.0	MR
121	IML12-134	5.0	MR	4.0	4.0	6.0	4.7	MR
122	IML12-135	3.0	R	4.0	3.0	6.0	4.3	MR
123	IML12-137	6.0	MS	3.0	7.0	5.0	5.0	MR
124	IML12-138	2.0	R	4.0	5.0	7.0	5.3	MS
125	IML12-139	6.0	MS	4.0	5.0	6.0	5.0	MR
126	IML12-140	4.0	MR	5.0	5.0	7.0	5.7	MS
127	IML12-141	8.0	S	7.0	NG	8.0	7.5	S
128	IML12-142	2.0	R	3.0	4.0	6.0	4.3	MR
129	IML12-143	2.0	R	3.0	NG	3.0	3.0	R
130	IML12-144	3.0	R	2.0	4.0	3.0	3.0	R
131	IML12-145	5.0	MR	4.0	6.0	8.0	6.0	MS
132	IML12-146	4.0	MR	3.0	5.0	6.0	4.7	MR
133	IML12-150	4.0	MR	4.0	4.0	6.0	4.7	MR
134	IML12-151	3.0	R	4.0	3.0	5.0	4.0	MR
135	IML12-152	5.0	MR	5.0	4.0	5.0	4.7	MR
136	IML12-153	3.0	R	4.0	5.0	6.0	5.0	MR
137	IML12-154	2.0	R	4.0	9.0	7.0	6.7	MS
138	IML12-155	7.0	MS	3.0	8.0	7.0	6.0	MS
139	IML12-156	4.0	MR	3.0	8.0	7.0	6.0	MS
140	IML12-157	3.0	R	2.0	4.0	2.0	2.7	R
141	IML12-158	2.0	R	3.0	4.0	8.0	5.0	MR
142	IML12-159	5.0	MR	3.0	8.0	7.0	6.0	MS
143	IML12-160	6.0	MS	6.0	8.0	7.0	7.0	MS
144	IML12-161	7.0	MS	5.0	8.0	7.0	6.7	MS
145	IML12-162	3.0	R	4.0	5.0	8.0	5.7	MS
146	IML12-163	3.0	R	5.0	4.0	6.0	5.0	MR
147	IML12-164	5.0	MR	4.0	5.0	6.0	5.0	MR
148	IML12-165	6.0	MS	5.0	7.0	6.0	6.0	MS
149	IML12-166	8.0	S	4.0	9.0	9.0	7.3	S
150	IML12-167	8.0	S	6.0	8.0	7.0	7.0	MS
151	SUS Check CM 600	7.0	MS	7.0	8.0	8.0	7.7	S
152	IML12-168	5.0	MR	6.0	8.0	8.0	7.3	S
153	IML12-169	3.0	R	6.0	8.0	8.0	7.3	S
154	IML12-170	4.0	MR	5.0	9.0	7.0	7.0	MS
155	IML12-171	4.0	MR	4.0	NG	NG	4.0	MR
156	IML12-172	3.0	R	5.0	4.0	6.0	5.0	MR
157	IML12-173	3.0	R	3.0	7.0	6.0	5.3	MS
158	IML12-174	2.0	R	4.0	6.0	6.0	5.3	MS
159	IML12-175	4.0	MR	5.0	8.0	7.0	6.7	MS
160	IML12-177	5.0	MR	6.0	7.0	7.0	6.7	MS
161	IML12-178	6.0	MS	4.0	6.0	5.0	5.0	MR
162	IML12-179	3.0	R	4.0	3.0	6.0	4.3	MR

Contd.

Table-13

Maydis leaf blight (1-9)								
		NEPZ		NWPZ				
S.No	Genotype	DHOL	Reaction	LUDH	KARN	DELH	Av. Score	Reaction
163	IML12-180	2.0	R	6.0	6.0	6.0	6.0	MS
164	IML12-181	5.0	MR	6.0	8.0	6.0	6.7	MS
165	IML12-182	4.0	MR	5.0	6.0	6.0	5.7	MS
166	IML12-183	2.0	R	4.0	5.0	6.0	5.0	MR
167	IML12-184	3.0	R	3.0	3.0	3.0	3.0	R
168	IML12-185	5.0	MR	3.0	3.0	3.0	3.0	R
169	IML12-186	6.0	MS	6.0	3.0	5.0	4.7	MR
170	IML12-187	4.0	MR	3.0	4.0	6.0	4.3	MR
171	IML12-188	4.0	MR	4.0	4.0	6.0	4.7	MR
172	IML12-189	3.0	R	3.0	3.0	3.0	3.0	R
173	IML12-190	5.0	MR	6.0	5.0	7.0	6.0	MS
174	IML12-191	3.0	R	6.0	6.0	7.0	6.3	MS
175	IML12-193	6.0	MS	5.0	7.0	7.0	6.3	MS
176	IML12-194	3.0	R	3.0	5.0	6.0	4.7	MR
177	IML12-195	5.0	MR	4.0	8.0	8.0	6.7	MS
178	IML12-196	7.0	MS	8.0	9.0	8.0	8.3	S
179	IML12-197	3.0	R	3.0	8.0	6.0	5.7	MS
180	IML12-198	3.0	R	3.0	NG	3.0	3.0	R
181	IML12-199	4.0	MR	4.0	3.0	7.0	4.7	MR
182	IML12-200	3.0	R	3.0	5.0	8.0	5.3	MS
183	IML12-201	3.0	R	4.0	8.0	7.0	6.3	MS
184	IML12-202	5.0	MR	6.0	6.0	7.0	6.3	MS
185	IML12-203	6.0	MS	4.0	7.0	8.0	6.3	MS
186	IML12-204	3.0	R	5.0	4.0	5.0	4.7	MR
187	IML12-205	5.0	MR	5.0	3.0	7.0	5.0	MR
188	IML12-206	3.0	R	3.0	3.0	3.0	3.0	R
189	IML12-208	2.0	R	6.0	3.0	8.0	5.7	MS
190	IML12-209	3.0	R	4.0	NG	7.0	5.5	MS
191	IML12-210	5.0	MR	3.0	4.0	7.0	4.7	MR
192	IML12-213	6.0	MS	5.0	9.0	8.0	7.3	S
193	IML12-215	5.0	MR	6.0	4.0	6.0	5.3	MS
194	IML12-216	5.0	MR	4.0	3.0	8.0	5.0	MR
195	IML12-217	6.0	MS	5.0	3.0	8.0	5.3	MS
196	IML12-218	2.0	R	3.0	4.0	6.0	4.3	MR
197	IML12-219	3.0	R	3.0	6.0	8.0	5.7	MS
198	IML12-220	3.0	R	6.0	9.0	8.0	7.7	S
199	IML12-221	5.0	MR	5.0	9.0	6.0	6.7	MS
200	IML12-222	7.0	MS	3.0	8.0	7.0	6.0	MS
201	SUS Check CM 600	8.0	S	6.5	7.0	8.0	7.2	S
202	IML12-223	8.0	S	5.0	5.0	7.0	5.7	MS
203	IML12-224	3.0	R	3.0	4.0	7.0	4.7	MR
204	IML12-225	3.0	R	5.0	7.0	7.0	6.3	MS
205	IML12-226	5.0	MR	3.0	8.0	8.0	6.3	MS
206	IML12-227	4.0	MR	4.0	9.0	8.0	7.0	MS
207	IML12-228	6.0	MS	6.0	9.0	8.0	7.7	S
208	IML12-229	3.0	R	4.0	8.0	7.0	6.3	MS
209	IML12-230	7.0	MS	7.0	NG	7.0	7.0	MS
210	IML12-231	3.0	R	4.0	6.0	6.0	5.3	MS
211	IML12-232	4.0	MR	3.0	6.0	6.0	5.0	MR
212	IML12-233	5.0	MR	5.0	8.0	6.0	6.3	MS
213	IML12-234	6.0	MS	4.0	6.0	7.0	5.7	MS
214	IML12-235	3.0	R	5.0	NG	8.0	6.5	MS
215	Res. Check	-	-	3.0	-	-	3.0	R
216	Sus. Check	-	-	7.0	-	-	7.0	MS

Resistant Check:- MLB:- CM 123 **(LUDHAIAN)**
Susceptible Check:- MLB:- CM 600 **(LUDHIANA)**

Table 14. Screening of mapping populations (M-13) against MLB

Maydis leaf blight (1-9)								
		NEPZ				NWPZ		
S.No	Genotype	DHOL	Reaction	LUDH	KANR	DELH	Av. Score	Reaction
1	IML13-1	4.0	MR	5.0	4.0	7.0	5.3	MS
2	IML13-2	6.0	MS	5.0	6.0	8.0	6.3	MS
3	IML13-3	3.0	R	4.0	5.0	8.0	5.7	MS
4	IML13-4	4.0	MR	4.0	6.0	7.0	5.7	MS
5	IML13-5	3.0	R	4.0	7.0	8.0	6.3	MS
6	IML13-6	6.0	MS	3.0	8.0	8.0	6.3	MS
7	IML13-7	5.0	MR	4.0	5.0	8.0	5.7	MS
8	IML13-8	4.0	MR	3.0	4.0	8.0	5.0	MR
9	IML13-9	3.0	R	4.0	6.0	8.0	6.0	MS
10	IML13-10	2.0	R	3.0	7.0	6.0	5.3	MS
11	IML13-11	5.0	MR	4.0	NG	7.0	5.5	MS
12	IML13-12	3.0	R	4.0	NG	8.0	6.0	MS
13	IML13-13	5.0	MR	5.0	7.0	8.0	6.7	MS
14	IML13-14	4.0	MR	4.0	7.0	8.0	6.3	MS
15	IML13-15	3.0	R	4.0	4.0	8.0	5.3	MS
16	IML13-17	5.0	MR	5.0	NG	8.0	6.5	MS
17	IML13-18	6.0	MS	8.0	5.0	8.0	7.0	MS
18	IML13-19	3.0	R	4.0	6.0	8.0	6.0	MS
19	IML13-20	4.0	MR	3.0	4.0	7.0	4.7	MR
20	IML13-21	5.0	MR	6.0	5.0	7.0	6.0	MS
21	IML13-22	5.0	MR	6.0	7.0	8.0	7.0	MS
22	IML13-23	3.0	R	5.0	6.0	8.0	6.3	MS
23	IML13-24	8.0	S	5.0	8.0	8.0	7.0	MS
24	IML13-25	4.0	MR	6.0	6.0	8.0	6.7	MS
25	IML13-26	4.0	MR	5.0	8.0	9.0	7.3	S
26	IML13-27	5.0	MR	3.0	4.0	8.0	5.0	MR
27	IML13-29	5.0	MR	5.0	8.0	8.0	7.0	MS
28	IML13-30	3.0	R	5.0	4.0	9.0	6.0	MS
29	IML13-31	4.0	MR	3.0	NG	3.0	3.0	R
30	IML13-32	6.0	MS	6.0	NG	8.0	7.0	MS
31	IML13-33	5.0	MR	3.0	5.0	8.0	5.3	MS
32	IML13-34	7.0	MS	5.0	9.0	8.0	7.3	S
33	IML13-35	5.0	MR	5.0	6.0	8.0	6.3	MS
34	IML13-36	6.0	MS	5.0	7.0	8.0	6.7	MS
35	IML13-37	3.0	R	4.0	6.0	8.0	6.0	MS
36	IML13-38	7.0	MS	4.0	9.0	8.0	7.0	MS
37	IML13-39	5.0	MR	5.0	6.0	8.0	6.3	MS
38	IML13-40	6.0	MS	4.0	5.0	8.0	5.7	MS
39	IML13-41	6.0	MS	7.0	8.0	8.0	7.7	S
40	IML13-42	4.0	MR	6.0	4.0	8.0	6.0	MS
41	IML13-43	8.0	S	3.0	3.0	3.0	3.0	R
42	IML13-44	5.0	MR	2.0	4.0	3.0	3.0	R
43	IML13-45	3.0	R	2.0	5.0	8.0	5.0	MR
44	IML13-46	5.0	MR	2.0	6.0	8.0	5.3	MS
45	IML13-47	6.0	MS	3.0	4.0	8.0	5.0	MR
46	IML13-48	6.0	MS	4.0	4.0	7.0	5.0	MR
47	IML13-49	4.0	MR	6.0	NG	8.0	7.0	MS
48	IML13-50	5.0	MR	5.0	4.0	8.0	5.7	MS
49	SUS Check CM 600	8.0	S	6.5	8.0	8.0	7.5	S
50	IML13-51	3.0	R	3.0	4.0	8.0	5.0	MR
51	IML13-52	8.0	S	3.0	4.0	8.0	5.0	MR

Contd.

Table-14

Maydis leaf blight (1-9)								
		NEPZ				NWPZ		
S.No	Genotype	DHOL	Reaction	LUDH	KANR	DELH	Av. Score	Reaction
52	IML13-53	3.0	R	2.0	5.0	8.0	5.0	MR
53	IML13-54	4.0	MR	4.0	6.0	8.0	6.0	MS
54	IML13-55	5.0	MR	3.0	4.0	8.0	5.0	MR
55	IML13-57	4.0	MR	2.0	5.0	8.0	5.0	MR
56	IML13-58	5.0	MR	3.0	4.0	8.0	5.0	MR
57	IML13-59	3.0	R	4.0	4.0	8.0	5.3	MS
58	IML13-60	4.0	MR	5.0	5.0	8.0	6.0	MS
59	IML13-62	6.0	MS	6.0	6.0	8.0	6.7	MS
60	IML13-63	4.0	MR	6.0	NG	8.0	7.0	MS
61	IML13-64	5.0	MR	4.0	4.0	8.0	5.3	MS
62	IML13-67	4.0	MR	3.0	7.0	8.0	6.0	MS
63	IML13-68	3.0	R	4.0	4.0	8.0	5.3	MS
64	IML13-69	2.0	R	5.0	4.0	8.0	5.7	MS
65	IML13-70	3.0	R	3.0	4.0	8.0	5.0	MR
66	IML13-71	5.0	MR	4.0	5.0	8.0	5.7	MS
67	IML13-73	4.0	MR	4.0	4.0	8.0	5.3	MS
68	IML13-74	8.0	S	6.0	8.0	8.0	7.3	S
69	IML13-75	5.0	MR	3.0	6.0	7.0	5.3	MS
70	IML13-76	3.0	R	7.0	NG	NG	7.0	MS
71	IML13-77	2.0	R	5.0	5.0	7.0	5.7	MS
72	IML13-78	4.0	MR	5.0	4.0	7.0	5.3	MS
73	IML13-79	6.0	MS	6.0	5.0	8.0	6.3	MS
74	IML13-80	5.0	MR	4.0	7.0	6.0	5.7	MS
75	IML13-81	-	-	3.0	NG	6.0	4.5	MR
76	IML13-82	3.0	R	3.0	5.0	7.0	5.0	MR
77	IML13-83	3.0	R	4.0	4.0	7.0	5.0	MR
78	IML13-84	5.0	MR	5.0	4.0	6.0	5.0	MR
79	IML13-85	4.0	MR	4.0	NG	7.0	5.5	MS
80	IML13-90	8.0	S	7.0	NG	7.0	7.0	MS
81	IML13-91	3.0	R	4.0	4.0	8.0	5.3	MS
82	IML13-93	3.0	R	4.0	4.0	7.0	5.0	MR
83	IML13-95	5.0	MR	4.0	NG	8.0	6.0	MS
84	IML13-96	4.0	MR	3.0	4.0	6.0	4.3	MR
85	IML13-97	6.0	MS	4.0	5.0	7.0	5.3	MS
86	IML13-98	3.0	R	3.0	4.0	8.0	5.0	MR
87	IML13-99	5.0	MR	4.0	6.0	6.0	5.3	MS
88	IML13-102	4.0	MR	2.0	5.0	6.0	4.3	MR
89	IML13-103	6.0	MS	3.0	5.0	8.0	5.3	MS
90	IML13-104	3.0	R	4.0	5.0	7.0	5.3	MS
91	IML13-105	4.0	MR	3.0	5.0	9.0	5.7	MS
92	IML13-106	6.0	MS	3.0	7.0	7.0	5.7	MS
93	IML13-107	4.0	MR	5.0	6.0	8.0	6.3	MS
94	IML13-108	7.0	MS	6.0	4.0	8.0	6.0	MS
95	IML13-109	6.0	MS	6.0	4.0	8.0	6.0	MS
96	IML13-110	5.0	MR	5.0	5.0	8.0	6.0	MS
97	IML13-112	7.0	MS	5.0	5.0	8.0	6.0	MS
98	SUS Check CM 600	8.0	S	6.5	8.0	9.0	7.8	S
99	IML13-113	3.0	R	5.0	5.0	7.0	5.7	MS
100	IML13-115	3.0	R	3.0	6.0	6.0	5.0	MR
101	IML13-116	5.0	MR	5.0	7.0	8.0	6.7	MS
102	IML13-117	5.0	MR	6.0	8.0	6.0	6.7	MS
103	IML13-118	6.0	MS	5.0	8.0	7.0	6.7	MS

Contd.

Table-14

Maydis leaf blight (1-9)									
		NEPZ				NWPZ			
S.No	Genotype	DHOL	Reaction	LUDH	KANR	DELH	Av. Score	Reaction	
104	IML13-119	4.0	MR	4.0	4.0	7.0	5.0	MR	
105	IML13-120	3.0	R	4.0	4.0	8.0	5.3	MS	
106	IML13-121	3.0	R	4.0	NG	8.0	6.0	MS	
107	IML13-122	5.0	MR	5.0	8.0	9.0	7.3	S	
108	IML13-123	4.0	MR	3.0	5.0	7.0	5.0	MR	
109	IML13-124	5.0	MR	3.0	4.0	9.0	5.3	MS	
110	IML13-125	4.0	MR	4.0	6.0	8.0	6.0	MS	
111	IML13-126	-	-	4.0	NG	NG	4.0	MR	
112	IML13-127	3.0	R	3.0	5.0	8.0	5.3	MS	
113	IML13-128	4.0	MR	4.0	5.0	8.0	5.7	MS	
114	IML13-129	5.0	MR	4.0	5.0	7.0	5.3	MS	
115	IML13-130	6.0	MS	5.0	8.0	7.0	6.7	MS	
116	IML13-131	2.0	R	4.0	5.0	8.0	5.7	MS	
117	IML13-132	5.0	MR	3.0	4.0	8.0	5.0	MR	
118	IML13-133	6.0	MS	4.0	6.0	7.0	5.7	MS	
119	IML13-134	3.0	R	4.0	7.0	8.0	6.3	MS	
120	IML13-135	4.0	MR	3.0	NG	3.0	3.0	R	
121	IML13-137	2.0	R	3.0	6.0	7.0	5.3	MS	
122	IML13-138	3.0	R	4.0	8.0	7.0	6.3	MS	
123	IML13-139	3.0	R	3.0	5.0	7.0	5.0	MR	
124	IML13-140	5.0	MR	4.0	4.0	7.0	5.0	MR	
125	IML13-141	2.0	R	3.0	NG	2.0	2.5	R	
126	IML13-143	3.0	R	3.0	8.0	6.0	5.7	MS	
127	IML13-144	4.0	MR	5.0	3.0	7.0	5.0	MR	
128	IML13-145	5.0	MR	3.0	5.0	8.0	5.3	MS	
129	IML13-146	6.0	MS	5.0	NG	8.0	6.5	MS	
130	IML13-147	5.0	MR	3.0	6.0	8.0	5.7	MS	
131	IML13-148	3.0	R	4.0	6.0	6.0	5.3	MS	
132	IML13-149	2.0	R	4.0	5.0	6.0	5.0	MR	
133	IML13-150	5.0	MR	4.0	4.0	7.0	5.0	MR	
134	IML13-151	-	-	3.0	8.0	5.0	5.3	MS	
135	IML13-154	2.0	R	3.0	5.0	6.0	4.7	MR	
136	IML13-155	4.0	MR	4.0	8.0	6.0	6.0	MS	
137	IML13-157	-	-	NG	9.0	NG	9.0	S	
138	IML13-158	3.0	R	3.0	5.0	5.0	4.3	MR	
139	IML13-160	4.0	MR	4.0	5.0	5.0	4.7	MR	
140	IML13-162	5.0	MR	5.0	4.0	7.0	5.3	MS	
141	IML13-164	8.0	S	7.0	8.0	8.0	7.7	S	
142	IML13-165	3.0	R	3.0	6.0	5.0	4.7	MR	
143	IML13-166	4.0	MR	4.0	8.0	6.0	6.0	MS	
144	IML13-167	6.0	MS	4.0	7.0	7.0	6.0	MS	
145	IML13-168	4.0	MR	5.0	6.0	7.0	6.0	MS	
146	IML13-169	5.0	MR	4.0	8.0	5.0	5.7	MS	
147	IML13-170	8.0	S	7.0	9.0	8.0	8.0	S	
148	IML13-171	3.0	R	4.0	6.0	6.0	5.3	MS	
149	SUS Check CM 600	7.0	MS	6.5	8.0	8.0	7.5	S	
150	IML13-173	6.0	MS	5.0	6.0	7.0	6.0	MS	
151	IML13-174	3.0	R	4.0	4.0	7.0	5.0	MR	
152	IML13-175	-	-	NG	NG	8.0	8.0	S	
153	IML13-176	3.0	R	4.0	6.0	6.0	5.3	MS	
154	IML13-177	2.0	R	4.0	7.0	6.0	5.7	MS	
155	IML13-178	3.0	R	3.0	6.0	5.0	4.7	MR	
156	IML13-179	5.0	MR	5.0	7.0	5.0	5.7	MS	
157	IML13-180	-	-	4.0	6.0	5.0	5.0	MR	

Contd.

Table-14

Maydis leaf blight (1-9)								
		NEPZ				NWPZ		
S.No	Genotype	DHOL	Reaction	LUDH	KANR	DELH	Av. Score	Reaction
158	IML13-181	6.0	MS	4.0	NG	7.0	5.5	MS
159	IML13-183	2.0	R	3.0	7.0	6.0	5.3	MS
160	IML13-185	3.0	R	3.0	5.0	7.0	5.0	MR
161	IML13-186	3.0	R	4.0	5.0	6.0	5.0	MR
162	IML13-188	5.0	MR	4.0	4.0	8.0	5.3	MS
163	IML13-189	8.0	S	5.0	5.0	7.0	5.7	MS
164	IML13-190	9.0	S	5.0	6.0	8.0	6.3	MS
165	IML13-191	9.0	S	3.0	4.0	7.0	4.7	MR
166	IML13-193	6.0	MS	4.0	5.0	7.0	5.3	MS
167	IML13-194	3.0	R	4.0	5.0	6.0	5.0	MR
168	IML13-195	3.0	R	4.0	4.0	7.0	5.0	MR
169	IML13-196	5.0	MR	3.0	7.0	8.0	6.0	MS
170	IML13-198	4.0	MR	4.0	5.0	8.0	5.7	MS
171	IML13-199	2.0	R	4.0	8.0	NG	6.0	MS
172	IML13-200	3.0	R	3.0	4.0	6.0	4.3	MR
173	IML13-201	5.0	MR	NG	6.0	6.0	6.0	MS
174	IML13-202	5.0	MR	4.0	5.0	6.0	5.0	MR
175	IML13-203	4.0	MR	4.0	4.0	6.0	4.7	MR
176	IML13-204	8.0	S	4.0	4.0	5.0	4.3	MR
177	IML13-205	3.0	R	5.0	5.0	6.0	5.3	MS
178	IML13-206	2.0	R	3.0	NG	2.0	2.5	R
179	IML13-207	5.0	MR	4.0	4.0	5.0	4.3	MR
180	IML13-208	5.0	MR	5.0	8.0	7.0	6.7	MS
181	IML13-209	2.0	R	3.0	5.0	6.0	4.7	MR
182	IML13-210	4.0	MR	3.0	4.0	7.0	4.7	MR
183	IML13-211	7.0	MS	4.0	4.0	8.0	5.3	MS
184	IML13-212	7.0	MS	5.0	5.0	8.0	6.0	MS
185	IML13-214	6.0	MS	4.0	6.0	8.0	6.0	MS
186	IML13-215	3.0	R	5.0	5.0	7.0	5.7	MS
187	IML13-216	4.0	MR	4.0	5.0	6.0	5.0	MR
188	IML13-217	3.0	R	5.0	8.0	NG	6.5	MS
189	IML13-218	2.0	R	3.0	5.0	5.0	4.3	MR
190	IML13-219	6.0	MS	4.0	4.0	7.0	5.0	MR
191	IML13-220	4.0	MR	4.0	8.0	6.0	6.0	MS
192	IML13-222	5.0	MR	5.0	4.0	NG	4.5	MR
193	IML13-223	6.0	MS	3.0	8.0	6.0	5.7	MS
194	IML13-224	5.0	MR	3.0	3.0	7.0	4.3	MR
195	IML13-225	3.0	R	3.0	3.0	3.0	3.0	R
196	IML13-226	8.0	S	3.0	8.0	8.0	6.3	MS
197	IML13-227	3.0	R	3.0	5.0	9.0	5.7	MS
198	IML13-229	4.0	MR	3.0	5.0	7.0	5.0	MR
199	IML13-230	5.0	MR	4.0	4.0	6.0	4.7	MR
200	SUS Check CM 600	-	-	7.0	NG	8.0	7.5	S
201	IML13-231	3.0	R	3.0	5.0	8.0	5.3	MS
202	IML13-232	4.0	MR	4.0	4.0	7.0	5.0	MR
203	IML13-233	5.0	MR	4.0	3.0	7.0	4.7	MR
204	IML13-234	2.0	R	3.0	5.0	5.0	4.3	MR
205	IML13-235	3.0	R	4.0	4.0	6.0	4.7	MR
206	IML13-236	5.0	MR	4.0	8.0	8.0	6.7	MS
207	IML13-237	5.0	MR	3.0	4.0	8.0	5.0	MR
208	IML13-238	2.0	R	3.0	6.0	8.0	5.7	MS
219	IML13-239	3.0	R	4.0	6.0	8.0	6.0	MS
210	IML13-241	5.0	MR	4.0	5.0	8.0	5.7	MS
211	IML13-242	6.0	MS	4.0	5.0	7.0	5.3	MS
212	Res. Check	-	-	3.0	-	-	3.0	R
213	Sus. Check	-	-	7.0	-	-	7.0	MS

Resistant Check:- MLB:- CM 123 **(LUDHAIAN)**

Susceptible Check:- MLB:- CM 600 **(LUDHIANA)**

Table 15. Screening of associantion mapping panel against different diseases of maize.

		TLB (1-9)					
		NHZ		PZ			
S.No	Genotype	BAJA	Reaction	DHAR	MAND	Av. Score	Reaction
1	BML 7	2.0	R	1.5	1.0	1.3	R
2	BML-45	3.0	R	1.5	5.0	3.3	MR
3	BRASIL-117	2.0	R	1.5	2.0	1.8	R
4	CML 292	7.0	MS	9.0	6.0	7.5	S
5	DML-1	3.0	R	1.0	2.0	1.5	R
6	DML-112	2.0	R	1.0	2.0	1.5	R
7	DML-119	5.0	MR	6.0	5.0	5.5	MS
8	DML-127	2.0	R	8.0	2.0	5.0	MR
9	DML-134-2	4.0	MR	7.0	5.0	6.0	MS
10	DML-16	3.0	R	1.0	2.0	1.5	R
11	DML-163-1	3.0	R	7.5	6.0	6.8	MS
12	DML-170	3.0	R	4.0	4.0	4.0	MR
13	DML-181	3.0	R	2.0	1.0	1.5	R
14	DML-19	6.0	MS	6.0	6.0	6.0	MS
15	DML-193	2.0	R	7.0	5.0	6.0	MS
16	DML-194	3.0	R	9.0	7.0	8.0	S
17	DML-212A	2.0	R	9.0	8.0	8.5	S
18	DML-221	3.0	R	6.0	4.0	5.0	MR
19	DML-242	3.0	R	8.0	5.0	6.5	MS
20	DML-310	2.0	R	3.0	2.0	2.5	R
21	DML-346	4.0	MR	4.0	2.0	3.0	R
22	DML-37-1	4.0	MR	5.0	2.0	3.5	MR
23	DML-416	4.0	MR	8.0	3.0	5.5	MS
24	DQL-1017-2	5.0	MR	7.0	2.0	4.5	MR
25	DQL-1001	6.0	MS	5.0	5.0	5.0	MR
26	DQL 1005	3.0	R	5.5	3.0	4.3	MR
27	HKI 42050	3.0	R	3.0	3.0	3.0	R
28	UMI 1200	2.0	R	1.0	2.0	1.5	R
29	UMI 1201	3.0	R	1.0	1.0	1.0	R
30	UMI 1230	3.0	R	1.0	1.0	1.0	R
31	V-373	4.0	MR	4.5	3.0	3.8	MR
32	DQL-609(dark purple)-1-3	3.0	R	4.0	4.0	4.0	MR
33	DQL-610-12-4	3.0	R	4.0	2.0	3.0	R
34	DQL-614-5-4	2.0	R	8.0	5.0	6.5	MS
35	DQL-780-2	2.0	R	9.0	5.0	7.0	MS
36	DQL-781-2	3.0	R	7.5	5.0	6.3	MS
37	DQL-621-1-1A	4.0	MR	3.0	1.0	2.0	R
38	DQL-621 (Seg)-9-1	6.0	MS	5.0	1.0	3.0	R
39	DQL-621 (Seg)-16-5	2.0	R	6.0	4.0	5.0	MR
40	DQL-295-1-1	2.0	R	8.0	6.0	7.0	MS
41	DQL-565 (V)-5-2 (Orange)	3.0	R	5.0	2.0	3.5	MR
42	DQL-626 (ORANGE)-2-3	3.0	R	7.5	3.0	5.3	MS
43	DQL-630-(ORANGE)-3-6	5.0	MR	9.0	6.0	7.5	S
44	DMRQPM-103	3.0	R	8.0	6.0	7.0	MS
45	DQL-685(Orange)-13-1	6.0	MS	7.5	8.0	7.8	S
46	HKI 1128	3.0	R	7.0	3.0	5.0	MR
47	LM 13	3.0	R	2.0	2.0	2.0	R
48	UMI 1210	3.0	R	3.0	1.0	2.0	R
49	BML 6	2.0	R	9.0	6.0	7.5	S
50	DQL-720-10-5	7.0	MS	5.0	7.0	6.0	MS
51	DQL-574-2	3.0	R	7.0	2.0	4.5	MR
52	DQL-593-3	7.0	MS	9.0	8.0	8.5	S
53	DQL-609(WG)-1-4	NG	-	6.0	4.0	5.0	MR
54	DQL-593-4	8.0	S	9.0	9.0	9.0	S
55	DQL-784(O)-4-1	7.0	MS	9.0	8.0	8.5	S

Contd.

Table-15

TLB (1-9)							
		NHZ		PZ			
S.No	Genotype	BAJA	Reaction	DHAR	MAND	Av. Score	Reaction
56	DQL-602-2	4.0	MR	4.5	5.0	4.8	MR
57	DQL-785(seg)-1-1	3.0	R	5.5	5.0	5.3	MS
58	DQL-609-5	2.0	R	8.0	5.0	6.5	MS
59	DQL-785(seg)-1-8	3.0	R	5.0	6.0	5.5	MS
60	DQL-614-6	5.0	MR	8.0	4.0	6.0	MS
61	DQL-790(PG)-2-4	3.0	R	4.0	8.0	6.0	MS
62	DQL-74-1-4B	6.0	MS	9.0	3.0	6.0	MS
63	DQL-653-3-1	4.0	MR	7.0	5.0	6.0	MS
64	DQL-633-1-1	3.0	R	7.5	5.0	6.3	MS
65	CM 120	3.0	R	5.0	7.0	6.0	MS
66	CM 125	3.0	R	4.0	7.0	5.5	MS
67	CM 133	6.0	MS	5.5	7.0	6.3	MS
68	CM 135	3.0	R	9.0	7.0	8.0	S
69	CM 138	3.0	R	4.0	7.0	5.5	MS
70	CM 140	4.0	MR	3.0	9.0	6.0	MS
71	CM 145	3.0	R	7.0	9.0	8.0	S
72	CM202XE57	2.0	R	9.0	3.0	6.0	MS
73	CM 207	3.0	R	6.0	5.0	5.5	MS
74	CM 210	2.0	R	6.0	5.0	5.5	MS
75	CM 212	2.0	R	6.0	4.0	5.0	MR
76	CM 213	4.0	MR	7.0	3.0	5.0	MR
77	CML 111	3.0	R	7.0	8.0	7.5	S
78	CML 112BBB	4.0	MR	8.0	8.0	8.0	S
79	CML 114	3.0	R	9.0	7.0	8.0	S
80	CML 117-3-4	3.0	R	9.0	4.0	6.5	MS
81	CML 12	3.0	R	7.0	8.0	7.5	S
82	CML 121	5.0	MR	7.0	4.0	5.5	MS
83	CML 141	3.0	R	7.0	5.0	6.0	MS
84	CML 162	3.0	R	5.0	1.0	3.0	R
85	CML 171	3.0	R	4.0	5.0	4.5	MR
86	CML 172	3.0	R	2.0	7.0	4.5	MR
87	CML 220	3.0	R	8.0	5.0	6.5	MS
88	CML 227	5.0	MR	6.0	4.0	5.0	MR
89	CML 282	3.0	R	8.0	1.0	4.5	MR
90	CML 29	4.0	MR	5.0	1.0	3.0	R
91	CML 295BBB	3.0	R	5.0	5.0	5.0	MR
92	CML 304	2.0	R	7.0	5.0	6.0	MS
93	CML 312	2.0	R	5.5	7.0	6.3	MS
94	CML 317	3.0	R	9.0	5.0	7.0	MS
95	HKI 1128	2.0	R	8.0	2.0	5.0	MR
96	LM 13	2.0	R	5.5	2.0	3.8	MR
97	UMI 1210	2.0	R	1.0	2.0	1.5	R
98	BML 6	2.0	R	5.0	5.0	5.0	MR
99	CML 321	2.0	R	8.0	4.0	6.0	MS
100	CML 327	2.0	R	8.0	4.0	6.0	MS
101	CML 334	7.0	MS	7.5	5.0	6.3	MS
102	CML 395	4.0	MR	9.0	5.0	7.0	MS
103	CML 409	2.0	R	5.0	4.0	4.5	MR
104	CML 40BBB	2.0	R	2.0	2.0	2.0	R
105	CML 420	4.0	MR	2.0	2.0	2.0	R
106	CML 422	6.0	MS	7.0	2.0	4.5	MR
107	CML 435	3.0	R	8.0	3.0	5.5	MS
108	CML 44	5.0	MR	8.0	5.0	6.5	MS
109	CML 451XE62	3.0	R	2.0	5.0	3.5	MR
110	CML 452	4.0	MR	3.0	1.0	2.0	R
111	CML 494	4.0	MR	4.0	3.0	3.5	MR

Contd.

Table-15

TLB (1-9)							
		NHZ		PZ			
S.No	Genotype	BAJA	Reaction	DHAR	MAND	Av. Score	Reaction
112	CML 55BB	2.0	R	7.0	4.0	5.5	MS
113	CM 108	2.0	R	3.0	1.0	2.0	R
114	CML 202	2.0	R	8.0	7.0	7.5	S
115	CML 207	2.0	R	8.0	2.0	5.0	MR
116	CML 208BBB	3.0	R	4.5	3.0	3.8	MR
117	CML 218BBB	5.0	MR	7.0	2.0	4.5	MR
118	CML 24	5.0	MR	9.0	8.0	8.5	S
119	CML 248	4.0	MR	4.0	3.0	3.5	MR
120	CML 269	4.0	MR	7.5	2.0	4.8	MR
121	CML 271BBB	6.0	MS	5.0	3.0	4.0	MR
122	CML 278	3.0	R	2.0	2.0	2.0	R
123	CML 279	3.0	R	4.5	2.0	3.3	MR
124	CML 322	3.0	R	4.0	2.0	3.0	R
125	CML 37	3.0	R	4.0	5.0	4.5	MR
126	CML 446BBB	3.0	R	8.0	4.0	6.0	MS
127	CML 484BBB	3.0	R	6.0	5.0	5.5	MS
128	CML 189BBB	4.0	MR	6.0	5.0	5.5	MS
129	CML 195	4.0	MR	8.0	3.0	5.5	MS
130	CML 384	4.0	MR	7.0	2.0	4.5	MR
131	CML 406	3.0	R	8.0	5.0	6.5	MS
132	CML 493BBB	3.0	R	5.0	3.0	4.0	MR
133	CML 542 W	2.0	R	5.5	2.0	3.8	MR
134	CML 549 W	2.0	R	2.0	2.0	2.0	R
135	CML 550 W	3.0	R	7.0	4.0	5.5	MS
136	CML 551 Y	5.0	MR	7.0	3.0	5.0	MR
137	CML 554 W	4.0	MR	8.0	7.0	7.5	S
138	CML 556 W	5.0	MR	6.0	4.0	5.0	MR
139	CML 557 W	3.0	R	6.0	4.0	5.0	MR
140	CML 559 W	2.0	R	4.0	1.0	2.5	R
141	CML 142 X 150	3.0	R	4.0	3.0	3.5	MR
142	CML 163	5.0	MR	4.0	3.0	3.5	MR
143	CML 176	4.0	MR	9.0	5.0	7.0	MS
144	HKI 1128	2.0	R	4.0	1.0	2.5	R
145	LM 13	3.0	R	4.0	4.0	4.0	MR
146	UMI 1210	3.0	R	3.0	1.0	2.0	R
147	BML 6	3.0	R	6.0	5.0	5.5	MS
148	CML 186	6.0	MS	8.0	8.0	8.0	S
149	Bajim-08-27	5.0	MR	4.0	5.0	4.5	MR
150	LM 5	5.0	MR	5.0	3.0	4.0	MR
151	LM 14	5.0	MR	2.0	1.0	1.5	R
152	LM 16	8.0	S	9.0	5.0	7.0	MS
153	LM 17	7.0	MS	9.0	5.0	7.0	MS
154	LM 18	7.0	MS	9.0	9.0	9.0	S
155	LM 19	7.0	MS	9.0	6.0	7.5	S
156	HKI 193-1	6.0	MS	5.0	2.0	3.5	MR
157	HKI 193-2	4.0	MR	4.0	2.0	3.0	R
158	HKI 323	5.0	MR	6.0	2.0	4.0	MR
159	HKI 488-1RG	3.0	R	8.0	2.0	5.0	MR
160	HKI 1344	2.0	R	5.0	2.0	3.5	MR
161	HKI 1348-6-2	3.0	R	7.5	4.0	5.8	MS
162	HKI 1352	3.0	R	5.0	5.0	5.0	MR
163	HKI 1378	3.0	R	4.0	1.0	2.5	R
164	MAI-105	2.0	R	7.0	2.0	4.5	MR
165	MAI-197	3.0	R	5.0	2.0	3.5	MR
166	CML 170	3.0	R	8.0	3.0	5.5	MS
167	CML 175	2.0	R	5.0	1.0	3.0	R

Contd.

Table-15

TLB (1-9)							
		NHZ		PZ			
S.No	Genotype	BAJA	Reaction	DHAR	MAND	Av. Score	Reaction
168	CML180	3.0	R	8.0	1.0	4.5	MR
169	CML 319	2.0	R	3.0	2.0	2.5	R
170	DMRQPM 121	2.0	R	9.0	6.0	7.5	S
171	LM 13	2.0	R	9.0	3.0	6.0	MS
172	WX 484	4.0	MR	9.0	4.0	6.5	MS
173	ESM 113	3.0	R	9.0	5.0	7.0	MS
174	HKI 4C4B	2.0	R	4.0	2.0	3.0	R
175	IML12-2	2.0	R	6.0	2.0	4.0	MR
176	IML12-9	2.0	R	6.0	3.0	4.5	MR
177	IML12-10	2.0	R	4.0	2.0	3.0	R
178	IML12-14	2.0	R	5.0	4.0	4.5	MR
179	IML12-22	3.0	R	7.0	3.0	5.0	MR
180	IML12-52	2.0	R	7.0	3.0	5.0	MR
181	IML12-74	2.0	R	8.0	2.0	5.0	MR
182	IML12-116	3.0	R	6.0	1.0	3.5	MR
183	IML12-133	2.0	R	6.0	1.0	3.5	MR
184	IML12-135	3.0	R	6.0	1.0	3.5	MR
185	IML12-143	4.0	MR	9.0	5.0	7.0	MS
186	IML12-161	4.0	MR	9.0	5.0	7.0	MS
187	IML 12-166	3.0	R	6.0	4.0	5.0	MR
188	IML12-170	4.0	MR	7.5	4.0	5.8	MS
189	IML12-180	4.0	MR	4.0	2.0	3.0	R
190	IML12-193	4.0	MR	6.0	2.0	4.0	MR
191	IML12-195	6.0	MS	7.0	2.0	4.5	MR
192	IML12-212	3.0	R	6.0	2.0	4.0	MR
193	HKI 1128	2.0	R	5.0	2.0	3.5	MR
194	LM 13	3.0	R	1.0	1.0	1.0	R
195	UMI 1210	NG	-	2.0	2.0	2.0	R
196	BML 6	3.0	R	6.0	4.0	5.0	MR
197	IML 12-213	2.0	R	7.0	4.0	5.5	MS
198	IML12-215	3.0	R	5.5	2.0	3.8	MR
199	IML12-218	3.0	R	7.0	5.0	6.0	MS
200	IML12-220	3.0	R	6.0	2.0	4.0	MR
201	IML12-221	3.0	R	8.0	9.0	8.5	S
202	IML13-17	4.0	MR	7.0	5.0	6.0	MS
203	IML13-22	4.0	MR	8.0	3.0	5.5	MS
204	IML13-23	4.0	MR	8.0	6.0	7.0	MS
205	IML13-62	2.0	R	5.0	2.0	3.5	MR
206	IML 13-84	2.0	R	7.0	1.0	4.0	MR
207	IML15-2	2.0	R	4.0	2.0	3.0	R
208	IML15-7	3.0	R	6.0	2.0	4.0	MR
209	IML15-10	2.0	R	8.0	4.0	6.0	MS
210	IML15-48	2.0	R	1.0	1.0	1.0	R
211	IML15-56	3.0	R	7.0	1.0	4.0	MR
212	IML15-60	2.0	R	9.0	5.0	7.0	MS
213	IML 15-65	3.0	R	4.0	2.0	3.0	R
214	IML15-243	4.0	MR	7.0	4.0	5.5	MS
215	IML15-69	NG	-	8.0	3.0	5.5	MS
216	IML15-97	2.0	R	3.0	4.0	3.5	MR
217	IML15-112	3.0	R	3.0	1.0	2.0	R
218	IML15-113	3.0	R	2.0	1.0	1.5	R
219	IML15-131	3.0	R	4.0	2.0	3.0	R
220	IML15-186	3.0	R	7.0	5.0	6.0	MS
221	IML15-202	3.0	R	5.0	5.0	5.0	MR
222	IML15-244	2.0	R	2.0	2.0	2.0	R
223	IML15-268	3.0	R	9.0	5.0	7.0	MS

Contd.

Table-15

		TLB (1-9)					
		NHZ		PZ			
S.No	Genotype	BAJA	Reaction	DHAR	MAND	Av. Score	Reaction
224	IML15-269	4.0	MR	6.0	2.0	4.0	MR
225	IML15-280	5.0	MR	8.0	7.0	7.5	S
226	IML15-288	2.0	R	2.0	1.0	1.5	R
227	IML15-299	2.0	R	6.0	1.0	3.5	MR
228	IML16-4	3.0	R	7.0	2.0	4.5	MR
229	IML16-6	2.0	R	4.5	1.0	2.8	R
230	IML16-14	3.0	R	8.0	3.0	5.5	MS
231	IML16-17	3.0	R	9.0	1.0	5.0	MR
232	IML16-25	2.0	R	7.5	5.0	6.3	MS
233	IML16-27	2.0	R	7.0	1.0	4.0	MR
234	IML16-28	3.0	R	7.0	4.0	5.5	MS
235	IML 16-98	3.0	R	4.0	1.0	2.5	R
236	IML16-134	2.0	R	6.0	1.0	3.5	MR
237	IML16-143	2.0	R	4.0	1.0	2.5	R
238	IML16-108	2.0	R	7.0	1.0	4.0	MR
239	IML16-146	2.0	R	5.5	1.0	3.3	MR
240	IML16-157	2.0	R	1.0	1.0	1.0	R
241	IML16-162	2.0	R	5.0	7.0	6.0	MS
242	HKI 1128	2.0	R	3.0	5.0	4.0	MR
243	LM 13	2.0	R	2.0	1.0	1.5	R
244	UMI 1210	2.0	R	4.0	1.0	2.5	R
245	BML 6	2.0	R	7.5	7.0	7.3	S
246	IML16-183	3.0	R	6.0	3.0	4.5	MR
247	IML16-185	3.0	R	8.0	1.0	4.5	MR
248	IML16-188	3.0	R	5.0	5.0	5.0	MR
249	IML16-193	3.0	R	5.5	1.0	3.3	MR
250	IML16-194	3.0	R	8.0	5.0	6.5	MS
251	IML16-205	3.0	R	7.0	4.0	5.5	MS
252	IML 16-208	3.0	R	5.0	1.0	3.0	R
253	IML16-210	2.0	R	2.0	2.0	2.0	R
254	IML16-220	3.0	R	4.0	3.0	3.5	MR
255	IML16-230	3.0	R	6.0	1.0	3.5	MR
256	IML16-231	4.0	MR	5.0	2.0	3.5	MR
257	IML16-237	2.0	R	8.0	5.0	6.5	MS
258	IML16-238	3.0	R	9.0	2.0	5.5	MS
259	IML16-254	2.0	R	9.0	7.0	8.0	S
260	IML16-269	3.0	R	7.0	3.0	5.0	MR
261	IML16-279	3.0	R	4.0	5.0	4.5	MR
262	IML16-282	2.0	R	1.0	4.0	2.5	R
263	DML-187-2	3.0	R	4.0	6.0	5.0	MR
264	DML-313	3.0	R	9.0	3.0	6.0	MS
265	DML-187-1	3.0	R	9.0	7.0	8.0	S
266	DML-106	2.0	R	8.0	5.0	6.5	MS
267	DML-106-1	3.0	R	7.0	6.0	6.5	MS
268	CM 143	4.0	MR	9.0	7.0	8.0	S
269	CM 123	2.0	R	8.0	5.0	6.5	MS
270	CM 202 X CML 451	3.0	R	6.0	4.0	5.0	MR
271	CML 117	4.0	MR	9.0	6.0	7.5	S
272	CML 206	3.0	R	4.0	1.0	2.5	R
273	CML 266	3.0	R	6.0	1.0	3.5	MR
274	CML 33	3.0	R	8.0	1.0	4.5	MR
275	CML 334(W)	2.0	R	1.0	1.0	1.0	R
276	CML 373	2.0	R	5.0	1.0	3.0	R
277	CML 413	2.0	R	3.0	1.0	2.0	R
278	CML 426	3.0	R	8.0	8.0	8.0	S
279	DML 401-1	3.0	R	9.0	8.0	8.5	S

Contd.

Table-15

TLB (1-9)							
		NHZ		PZ			
S.No	Genotype	BAJA	Reaction	DHAR	MAND	Av. Score	Reaction
280	CML 44 BBB	3.0	R	8.0	2.0	5.0	MR
281	CML 479	2.0	R	4.5	5.0	4.8	MR
282	CML 540 (W)	2.0	R	3.0	2.0	2.5	R
283	DML 281	3.0	R	1.0	2.0	1.5	R
284	DML 6	2.0	R	8.0	2.0	5.0	MR
285	DML 339	3.0	R	7.0	4.0	5.5	MS
286	DML 57-2	3.0	R	6.0	2.0	4.0	MR
287	DPCL 102	3.0	R	8.0	5.0	6.5	MS
288	DPCL 106-1	3.0	R	9.0	7.0	8.0	S
289	DPCL 117	6.0	MS	9.0	9.0	9.0	S
290	CML 451	2.0	R	4.0	4.0	4.0	MR
291	HKI 1128	3.0	R	4.0	2.0	3.0	R
292	LM 13	2.0	R	2.0	1.0	1.5	R
293	UMI 1210	3.0	R	4.0	1.0	2.5	R
294	BML 6	3.0	R	8.0	6.0	7.0	MS
295	CM 101	3.0	R	5.0	2.0	3.5	MR
296	DQL 1019	3.0	R	7.0	1.0	4.0	MR
297	DQL 1022-1	5.0	MR	8.0	1.0	4.5	MR
298	DQL 364-1-4	3.0	R	5.0	1.0	3.0	R
299	DQL 774-171	3.0	R	6.0	1.0	3.5	MR
300	DQL 779-2-9	4.0	MR	9.0	6.0	7.5	S
301	DQL 781(Early)-1-4	4.0	MR	8.0	2.0	5.0	MR
302	DQL 784-5-3	5.0	MR	9.0	7.0	8.0	S
303	HKI 1040-7	3.0	R	4.0	1.0	2.5	R
304	HKI 484-5	2.0	R	4.0	1.0	2.5	R
305	LM 12	2.0	R	9.0	6.0	7.5	S
306	P 19 (IML-16-19)	NG	-	7.0	4.0	5.5	MS
307	P 14 (IML- 16-14)	3.0	R	5.0	3.0	4.0	MR
308	P 141 (IML-16-141)	NG	-	9.0	5.0	7.0	MS
309	P 163 (IML-16-163)	2.0	R	5.0	4.0	4.5	MR
310	P 248 (IML 16-248)	3.0	R	7.0	7.0	7.0	MS
311	P 72 (IML -16-72)	3.0	R	5.0	6.0	5.5	MS
312	DML 36	2.0	R	4.0	6.0	5.0	MR
313	DML 92	3.0	R	6.0	6.0	6.0	MS
314	V 335	3.0	R	1.0	NG	1.0	R
315	V 345	3.0	R	1.0	6.0	3.5	MR
316	CM 143-1	2.0	R	8.0	7.0	7.5	S
317	CML 114-1	2.0	R	9.0	8.0	8.5	S
318	DML 19-1	8.0	S	9.0	8.0	8.5	S
319	IML 16-108	5.0	MR	4.0	4.0	4.0	MR
320	CML 547(W)	3.0	R	3.0	5.0	4.0	MR
321	DQL 609-20-3 (WG)	2.0	R	7.5	9.0	8.3	S
322	CML 161/CML 16	4.0	MR	6.0	6.0	6.0	MS
323	DQL 1001-1	4.0	MR	7.5	4.0	5.8	MS
324	IML 16-134-1	4.0	MR	6.0	4.0	5.0	MR
325	IML 16-134-2(QPM)	3.0	R	6.0	8.0	7.0	MS
326	CML 152	3.0	R	6.0	NG	6.0	MS
327	VQL 1		R	9.0	NG	9.0	S
328	VQL 2	3.0	R	6.0	NG	6.0	MS
329	V 341	6.0	MS	8.0	8.0	8.0	S
330	V 346	3.0	R	8.0	NG	8.0	S
331	V 372	3.0	R	7.0	9.0	8.0	S
332	DML 212-C	4.0	MR	9.0	8.0	8.5	S
333	DML 212-B	NG	-	8.0	NG	8.0	S
334	HKI 1128	3.0	R	4.0	NG	4.0	MR
335	LM 13	NG	-	2.0	NG	2.0	R
336	UMI 1210	2.0	R	4.0	NG	4.0	MR
337	BML 6	3.0	R	8.0	NG	8.0	S
338	Res. Check	-	-	4.0	-	4.0	MR
339	Sus. Check	-	-	9.0	8.5	8.8	S

Resistant Check:- C. ROT :- CL 4 **(DHARWAD)**

Susceptible Check:- C. ROT :- CM 202 **(DHARWAD)**

Contd.

Table-15

		C.ROT (1-9)						C.RUST (1-9)	
		NWPZ				PZ		PZ	
S.No	Genotype	LUDH	DELH	Av. Score	Reaction	HYDE	Reaction	DHAR	Reaction
1	BML 7	5.0	1.0	3.0	R	4.4	MR	2.0	R
2	BML-45	3.6	1.0	2.3	R	6.8	MS	2.0	R
3	BRASIL-117	5.6	1.0	3.3	MR	7.0	MS	6.0	MS
4	CML 292	7.4	1.0	4.2	MR	6.9	MS	3.0	MR
5	DML-1	5.8	1.0	3.4	MR	6.8	MS	4.0	MR
6	DML-112	7.2	1.0	4.1	MR	7.0	MS	4.0	MR
7	DML-119	5.2	1.0	3.1	MR	5.8	MS	4.0	MR
8	DML-127	4.6	1.0	2.8	R	6.7	MS	3.0	MR
9	DML-134-2	4.3	2.0	3.2	MR	7.0	MS	2.0	R
10	DML-16	4.0	1.0	2.5	R	6.4	MS	5.0	MS
11	DML-163-1	5.0	1.0	3.0	R	6.8	MS	2.0	R
12	DML-170	4.2	1.0	2.6	R	5.4	MS	2.0	R
13	DML-181	4.6	1.0	2.8	R	5.3	MS	5.0	MS
14	DML-19	3.4	1.0	2.2	R	7.0	MS	2.0	R
15	DML-193	5.0	1.0	3.0	R	5.1	MS	2.0	R
16	DML-194	3.0	1.0	2.0	R	5.7	MS	4.0	MR
17	DML-212A	6.6	1.0	3.8	MR	6.7	MS	2.0	R
18	DML-221	7.6	1.0	4.3	MR	6.3	MS	4.0	MR
19	DML-242	5.0	1.0	3.0	R	6.0	MS	4.0	MR
20	DML-310	3.0	1.0	2.0	R	5.8	MS	4.0	MR
21	DML-346	6.4	1.0	3.7	MR	7.7	S	2.0	R
22	DML-37-1	6.0	1.0	3.5	MR	6.0	MS	2.0	R
23	DML-416	3.0	1.0	2.0	R	6.3	MS	6.0	MS
24	DQL-1017-2	6.7	1.0	3.9	MR	6.5	MS	6.0	MS
25	DQL-1001	3.8	1.0	2.4	R	6.5	MS	7.0	S
26	DQL 1005	5.5	1.0	3.3	MR	6.0	MS	7.0	S
27	HKI 42050	3.4	1.0	2.2	R	6.3	MS	6.0	MS
28	UMI 1200	4.8	1.0	2.9	R	5.7	MS	4.0	MR
29	UMI 1201	5.0	1.0	3.0	R	5.4	MS	4.0	MR
30	UMI 1230	4.0	1.0	2.5	R	6.8	MS	4.0	MR
31	V-373	8.8	1.0	4.9	MR	6.6	MS	6.0	MS
32	DQL-609(dark purple)-1-3	8.3	1.0	4.7	MR	6.6	MS	7.0	S
33	DQL-610-12-4	8.2	NG	8.2	S	6.6	MS	4.0	MR
34	DQL-614-5-4	5.8	1.0	3.4	MR	6.4	MS	2.0	R
35	DQL-780-2	7.2	1.0	4.1	MR	6.4	MS	2.0	R
36	DQL-781-2	6.8	1.0	3.9	MR	6.7	MS	7.0	S
37	DQL-621-1-1A	6.2	1.0	3.6	MR	5.7	MS	6.0	MS
38	DQL-621 (Seg)-9-1	6.2	1.0	3.6	MR	5.7	MS	9.0	S
39	DQL-621 (Seg)-16-5	4.8	1.7	3.3	MR	5.0	MR	9.0	S
40	DQL-295-1-1	7.3	1.0	4.2	MR	6.0	MS	2.0	R
41	DQL-565 (V)-5-2 (Orange)	8.6	1.0	4.8	MR	6.4	MS	2.0	R
42	DQL-626 (ORANGE)-2-3	6.5	1.0	3.8	MR	6.5	MS	6.0	MS
43	DQL-630-(ORANGE)-3-6	6.2	1.0	3.6	MR	5.3	MS	6.0	MS
44	DMRQPM-103	6.8	4.7	5.7	MS	6.5	MS	4.0	MR
45	DQL-685(Orange)-13-1	6.8	1.0	3.9	MR	6.4	MS	4.0	MR
46	HKI 1128	7.8	1.0	4.4	MR	5.3	MS	4.0	MR
47	LM 13	3.7	1.0	2.4	R	5.0	MR	7.0	S
48	UMI 1210	4.4	1.0	2.7	R	6.0	MS	7.0	S
49	BML 6	4.2	1.0	2.6	R	6.4	MS	4.0	MR
50	DQL-720-10-5	8.7	1.0	4.9	MR	7.0	MS	8.0	S
51	DQL-574-2	7.8	1.0	4.4	MR	6.3	MS	2.0	R
52	DQL-593-3	6.5	1.0	3.8	MR	6.0	MS	4.0	MR
53	DQL-609(WG)-1-4	8.7	1.0	4.9	MR	-	-	2.0	R
54	DQL-593-4	7.2	1.3	4.3	MR	4.1	MR	2.0	R
55	DQL-784(O)-4-1	7.2	1.3	4.3	MR	5.3	MS	2.0	R

Contd.

Table-15

		C.ROT (1-9)						C.RUST (1-9)	
		NWPZ				PZ		PZ	
S.No	Genotype	LUDH	DELH	Av. Score	Reaction	HYDE	Reaction	DHAR	Reaction
56	DQL-602-2	5.2	1.0	3.1	MR	5.1	MS	2.0	R
57	DQL-785(seg)-1-1	7.2	1.0	4.1	MR	6.1	MS	9.0	S
58	DQL-609-5	5.2	1.0	3.1	MR	3.4	MR	7.0	S
59	DQL-785(seg)-1-8	6.6	1.0	3.8	MR	6.6	MS	2.0	R
60	DQL-614-6	5.4	1.0	3.2	MR	5.5	MS	7.5	S
61	DQL-790(PG)-2-4	6.0	1.0	3.5	MR	4.1	MR	8.0	S
62	DQL-74-1-4B	6.6	2.3	4.5	MR	6.0	MS	4.0	MR
63	DQL-653-3-1	3.4	1.0	2.2	R	5.7	MS	9.0	S
64	DQL-633-1-1	4.2	1.0	2.6	R	4.8	MR	9.0	S
65	CM 120	5.8	1.0	3.4	MR	5.5	MS	2.0	R
66	CM 125	5.7	1.0	3.4	MR	6.7	MS	6.0	MS
67	CM 133	3.7	1.0	2.4	R	6.2	MS	2.0	R
68	CM 135	3.7	1.0	2.4	R	5.2	MS	4.0	MR
69	CM 138	3.7	1.0	2.4	R	5.3	MS	9.0	S
70	CM 140	8.7	1.0	4.9	MR	5.6	MS	2.0	R
71	CM 145	9.0	1.0	5.0	MR	4.3	MR	2.0	R
72	CM202XE57	7.0	1.0	4.0	MR	4.3	MR	6.0	MS
73	CM 207	3.2	1.0	2.1	R	5.9	MS	8.0	S
74	CM 210	5.6	1.0	3.3	MR	7.3	S	8.0	S
75	CM 212	3.5	1.0	2.3	R	6.0	MS	4.0	MR
76	CM 213	3.8	1.0	2.4	R	7.0	MS	4.0	MR
77	CML 111	3.7	1.0	2.4	R	6.8	MS	4.0	MR
78	CML 112BBB	4.0	1.0	2.5	R	-	-	2.0	R
79	CML 114	5.8	1.0	3.4	MR	6.1	MS	4.0	MR
80	CML 117-3-4	4.0	1.0	2.5	R	6.6	MS	2.0	R
81	CML 12	5.5	1.0	3.3	MR	6.3	MS	8.0	S
82	CML 121	4.5	1.0	2.8	R	7.0	MS	2.0	R
83	CML 141	6.2	1.0	3.6	MR	6.6	MS	2.0	R
84	CML 162	5.4	1.0	3.2	MR	6.7	MS	2.0	R
85	CML 171	3.0	1.0	2.0	R	5.4	MS	8.0	S
86	CML 172	3.2	1.0	2.1	R	6.1	MS	7.0	S
87	CML 220	7.2	1.0	4.1	MR	6.0	MS	6.0	MS
88	CML 227	5.0	2.3	3.7	MR	6.5	MS	4.0	MR
89	CML 282	6.0	NG	6.0	MS	5.6	MS	2.0	R
90	CML 29	7.0	1.0	4.0	MR	6.2	MS	2.0	R
91	CML 295BBB	4.0	2.3	3.2	MR	6.3	MS	2.0	R
92	CML 304	7.5	1.0	4.3	MR	7.5	S	2.0	R
93	CML 312	4.0	2.2	3.1	MR	6.3	MS	2.0	R
94	CML 317	6.8	1.0	3.9	MR	6.5	MS	2.0	R
95	HKI 1128	6.8	1.8	4.3	MR	7.0	MS	2.0	R
96	LM 13	3.5	1.0	2.3	R	7.4	S	7.0	S
97	UMI 1210	3.6	1.6	2.6	R	7.4	S	7.0	S
98	BML 6	7.6	1.0	4.3	MR	7.2	S	2.0	R
99	CML 321	7.4	1.0	4.2	MR	5.9	MS	2.0	R
100	CML 327	6.8	1.0	3.9	MR	6.9	MS	5.0	MS
101	CML 334	8.0	1.8	4.9	MR	7.1	S	2.0	R
102	CML 395	3.6	1.0	2.3	R	5.9	MS	6.0	MS
103	CML 409	4.2	1.3	2.8	R	4.9	MR	6.0	MS
104	CML 40BBB	3.6	1.0	2.3	R	3.3	MR	2.0	R
105	CML 420	9.0	1.0	5.0	MR	7.0	MS	6.0	MS
106	CML 422	5.8	1.0	3.4	MR	6.1	MS	2.0	R
107	CML 435	3.2	1.0	2.1	R	5.7	MS	2.0	R
108	CML 44	4.3	1.0	2.7	R	-	-	2.0	R
109	CML 451XE62	8.8	1.0	4.9	MR	4.9	MR	2.0	R
110	CML 452	6.4	1.0	3.7	MR	6.6	MS	2.0	R
111	CML 494	4.4	1.0	2.7	R	5.3	MS	2.0	R

Contd.

Table-15

		C.ROT (1-9)						C.RUST (1-9)	
		NWPZ				PZ		PZ	
S.No	Genotype	LUDH	DELH	Av. Score	Reaction	HYDE	Reaction	DHAR	Reaction
112	CML 55BB	3.8	1.0	2.4	R	6.5	MS	2.0	R
113	CM 108	3.4	1.0	2.2	R	7.0	MS	2.0	R
114	CML 202	3.2	1.0	2.1	R	6.5	MS	2.0	R
115	CML 207	6.8	1.0	3.9	MR	7.4	S	2.0	R
116	CML 208BBB	4.4	1.0	2.7	R	6.0	MS	2.0	R
117	CML 218BBB	5.5	1.0	3.3	MR	6.0	MS	2.0	R
118	CML 24	6.0	1.0	3.5	MR	7.3	S	7.0	S
119	CML 248	6.4	1.0	3.7	MR	6.0	MS	7.0	S
120	CML 269	6.8	1.0	3.9	MR	5.2	MS	8.0	S
121	CML 271BBB	6.2	1.0	3.6	MR	6.7	MS	2.0	R
122	CML 278	9.0	1.0	5.0	MR	6.4	MS	2.0	R
123	CML 279	4.7	1.0	2.9	R	4.6	MR	4.0	MR
124	CML 322	6.5	1.0	3.8	MR	6.0	MS	4.0	MR
125	CML 37	8.7	1.0	4.9	MR	6.6	MS	4.0	MR
126	CML 446BBB	4.7	1.0	2.9	R	4.5	MR	2.0	R
127	CML 484BBB	8.2	1.0	4.6	MR	6.3	MS	6.0	MS
128	CML 189BBB	9.0	1.0	5.0	MR	5.0	MR	7.0	S
129	CML 195	3.0	1.0	2.0	R	4.7	MR	2.0	R
130	CML 384	7.0	1.0	4.0	MR	7.5	S	2.0	R
131	CML 406	8.0	1.0	4.5	MR	6.9	MS	2.0	R
132	CML 493BBB	4.7	1.0	2.9	R	7.0	MS	4.0	MR
133	CML 542 W	3.3	1.0	2.2	R	7.3	S	2.0	R
134	CML 549 W	4.7	1.0	2.9	R	7.3	S	2.0	R
135	CML 550 W	7.0	1.0	4.0	MR	6.4	MS	2.0	R
136	CML 551 Y	7.8	1.0	4.4	MR	7.5	S	6.0	MS
137	CML 554 W	7.8	1.0	4.4	MR	7.5	S	2.0	R
138	CML 556 W	6.2	1.0	3.6	MR	7.3	S	4.0	MR
139	CML 557 W	7.6	1.0	4.3	MR	7.3	S	6.0	MS
140	CML 559 W	5.8	1.0	3.4	MR	6.2	MS	9.0	S
141	CML 142 X 150	7.6	1.0	4.3	MR	7.2	S	2.0	R
142	CML 163	6.2	1.0	3.6	MR	7.1	S	2.0	R
143	CML 176	4.8	1.0	2.9	R	6.7	MS	4.0	MR
144	HKI 1128	6.0	1.0	3.5	MR	7.4	S	2.0	R
145	LM 13	4.0	1.0	2.5	R	5.7	MS	6.0	MS
146	UMI 1210	3.7	1.0	2.4	R	6.5	MS	2.0	R
147	BML 6	6.5	1.0	3.8	MR	7.0	MS	4.0	MR
148	CML 186	7.2	NG	7.2	S	7.5	S	2.0	R
149	Bajim-08-27	5.5	NG	5.5	MS	8.0	S	4.0	MR
150	LM 5	3.2	1.0	2.1	R	6.0	MS	8.0	S
151	LM 14	3.3	1.0	2.2	R	6.5	MS	4.0	MR
152	LM 16	7.5	1.0	4.3	MR	7.3	S	4.0	MR
153	LM 17	5.0	1.0	3.0	R	7.3	S	2.0	R
154	LM 18	7.8	1.0	4.4	MR	5.9	MS	2.0	R
155	LM 19	4.4	1.0	2.7	R	6.8	MS	2.0	R
156	HKI 193-1	6.0	1.0	3.5	MR	7.2	S	2.0	R
157	HKI 193-2	8.0	1.0	4.5	MR	-	-	2.0	R
158	HKI 323	8.7	1.0	4.9	MR	-	-	4.0	MR
159	HKI 488-1RG	7.0	1.0	4.0	MR	6.8	MS	4.0	MR
160	HKI 1344	6.7	1.0	3.9	MR	7.3	S	2.0	R
161	HKI 1348-6-2	7.5	1.0	4.3	MR	-	-	2.0	R
162	HKI 1352	4.0	1.0	2.5	R	6.6	MS	2.0	R
163	HKI 1378	6.8	1.0	3.9	MR	7.6	S	2.0	R
164	MAI-105	8.0	1.0	4.5	MR	6.5	MS	2.0	R
165	MAI-197	7.6	1.0	4.3	MR	5.8	MS	2.0	R
166	CML 170	5.4	1.0	3.2	MR	5.6	MS	2.0	R
167	CML 175	8.7	1.0	4.9	MR	-	-	2.0	R

Contd.

Table-15

		C.ROT (1-9)						C.RUST (1-9)	
		NWPZ				PZ		PZ	
S.No	Genotype	LUDH	DELH	Av. Score	Reaction	HYDE	Reaction	DHAR	Reaction
168	CML180	7.8	1.0	4.4	MR	7.1	S	8.0	S
169	CML 319	4.3	1.0	2.7	R	-	-	6.0	MS
170	DMRQPM 121	7.2	1.0	4.1	MR	7.0	MS	2.0	R
171	LM 13	8.2	1.0	4.6	MR	7.0	MS	2.0	R
172	WX 484	3.2	1.0	2.1	R	6.8	MS	2.0	R
173	ESM 113	8.2	1.0	4.6	MR	7.0	MS	2.0	R
174	HKI 4C4B	6.2	1.0	3.6	MR	5.9	MS	2.0	R
175	IML12-2	4.2	1.0	2.6	R	6.6	MS	2.0	R
176	IML12-9	7.0	1.0	4.0	MR	6.3	MS	4.0	MR
177	IML12-10	3.0	1.0	2.0	R	7.3	S	2.0	R
178	IML12-14	4.2	1.0	2.6	R	6.4	MS	6.0	MS
179	IML12-22	4.4	1.0	2.7	R	-	-	2.0	R
180	IML12-52	5.6	1.8	3.7	MR	6.5	MS	2.0	R
181	IML12-74	5.0	1.0	3.0	R	3.5	MR	2.0	R
182	IML12-116	6.0	1.0	3.5	MR	6.9	MS	2.0	R
183	IML12-133	4.4	1.0	2.7	R	8.0	S	2.0	R
184	IML12-135	3.4	1.0	2.2	R	6.8	MS	2.0	R
185	IML12-143	4.2	1.0	2.6	R	5.5	MS	7.0	S
186	IML12-161	3.2	1.0	2.1	R	7.0	MS	8.0	S
187	IML 12-166	5.4	1.0	3.2	MR	5.4	MS	9.0	S
188	IML12-170	5.2	1.0	3.1	MR	6.2	MS	8.0	S
189	IML12-180	5.8	1.0	3.4	MR	5.6	MS	2.0	R
190	IML12-193	3.2	1.0	2.1	R	7.0	MS	2.0	R
191	IML12-195	5.0	1.0	3.0	R	6.7	MS	2.0	R
192	IML12-212	4.2	1.0	2.6	R	5.2	MS	2.0	R
193	HKI 1128	9.0	1.0	5.0	MR	6.0	MS	2.0	R
194	LM 13	4.2	1.7	3.0	R	6.7	MS	3.0	MR
195	UMI 1210	3.0	1.0	2.0	R	5.5	MS	3.0	MR
196	BML 6	NG	1.0	1.0	R	6.6	MS	2.0	R
197	IML 12-213	7.0	1.0	4.0	MR	6.0	MS	2.0	R
198	IML12-215	4.0	1.0	2.5	R	7.2	S	2.0	R
199	IML12-218	8.2	1.0	4.6	MR	6.4	MS	6.0	MS
200	IML12-220	3.8	1.0	2.4	R	6.1	MS	6.0	MS
201	IML12-221	3.5	1.0	2.3	R	6.6	MS	2.0	R
202	IML13-17	4.7	1.0	2.9	R	5.8	MS	6.0	MS
203	IML13-22	4.2	1.0	2.6	R	6.8	MS	4.0	MR
204	IML13-23	6.8	1.0	3.9	MR	7.2	S	2.0	R
205	IML13-62	8.7	1.0	4.9	MR	6.3	MS	2.0	R
206	IML 13-84	4.2	1.0	2.6	R	7.1	S	2.0	R
207	IML15-2	8.0	1.0	4.5	MR	6.8	MS	2.0	R
208	IML15-7	5.2	1.0	3.1	MR	5.7	MS	2.0	R
209	IML15-10	4.5	1.0	2.8	R	4.8	MR	4.0	MR
210	IML15-48	3.5	1.0	2.3	R	5.8	MS	7.0	S
211	IML15-56	3.6	1.0	2.3	R	5.6	MS	6.0	MS
212	IML15-60	3.4	1.0	2.2	R	6.3	MS	4.0	MR
213	IML 15-65	3.3	1.0	2.2	R	6.1	MS	2.0	R
214	IML15-243	5.4	1.0	3.2	MR	5.6	MS	6.0	MS
215	IML15-69	6.2	1.0	3.6	MR	-	-	2.0	R
216	IML15-97	4.5	1.0	2.8	R	5.9	MS	3.0	MR
217	IML15-112	4.6	1.0	2.8	R	6.7	MS	3.0	MR
218	IML15-113	4.7	1.0	2.9	R	-	-	6.0	MS
219	IML15-131	6.4	1.0	3.7	MR	5.3	MS	4.0	MR
220	IML15-186	4.6	1.0	2.8	R	6.6	MS	8.0	S
221	IML15-202	3.2	1.0	2.1	R	6.3	MS	4.0	MR
222	IML15-244	6.2	1.0	3.6	MR	6.1	MS	4.0	MR
223	IML15-268	4.7	1.0	2.9	R	6.4	MS	4.0	MR

Contd.

Table-15

		C.ROT (1-9)						C.RUST (1-9)	
		NWPZ				PZ		PZ	
S.No	Genotype	LUDH	DELH	Av. Score	Reaction	HYDE	Reaction	DHAR	Reaction
224	IML15-269	4.2	1.0	2.6	R	6.3	MS	4.0	MR
225	IML15-280	3.7	1.0	2.4	R	4.6	MR	4.0	MR
226	IML15-288	2.5	1.0	1.8	R	6.4	MS	6.0	MS
227	IML15-299	3.4	1.0	2.2	R	-	-	9.0	S
228	IML16-4	5.0	1.0	3.0	R	6.4	MS	9.0	S
229	IML16-6	3.2	1.0	2.1	R	6.8	MS	2.0	R
230	IML16-14	4.8	1.0	2.9	R	6.9	MS	6.0	MS
231	IML16-17	5.2	1.0	3.1	MR	7.2	S	2.0	R
232	IML16-25	3.6	1.0	2.3	R	6.1	MS	2.0	R
233	IML16-27	4.2	1.0	2.6	R	7.3	S	2.0	R
234	IML16-28	6.2	1.0	3.6	MR	6.7	MS	2.0	R
235	IML 16-98	5.2	1.0	3.1	MR	6.4	MS	3.0	MR
236	IML16-134	5.2	1.0	3.1	MR	6.7	MS	2.0	R
237	IML16-143	6.0	1.0	3.5	MR	7.1	S	6.0	MS
238	IML16-108	3.2		3.2	MR	6.3	MS	2.0	R
239	IML16-146	4.2	1.0	2.6	R	7.0	MS	6.0	MS
240	IML16-157	4.0	1.0	2.5	R	6.3	MS	6.0	MS
241	IML16-162	6.5	1.0	3.8	MR	-	-	7.0	S
242	HKI 1128	7.0	1.0	4.0	MR	-	-	2.0	R
243	LM 13	3.4	1.0	2.2	R	6.8	MS	7.0	S
244	UMI 1210	3.0	1.0	2.0	R	6.5	MS	2.0	R
245	BML 6	8.7	1.0	4.9	MR	7.5	S	2.0	R
246	IML16-183	5.4	1.0	3.2	MR	6.9	MS	6.0	MS
247	IML16-185	8.0	1.0	4.5	MR	-	-	8.0	S
248	IML16-188	7.8	1.0	4.4	MR	6.6	MS	8.0	S
249	IML16-193	6.2	1.0	3.6	MR	7.4	S	4.0	MR
250	IML16-194	8.0	1.0	4.5	MR	6.8	MS	2.0	R
251	IML16-205	7.0	1.0	4.0	MR	7.0	MS	9.0	S
252	IML 16-208	5.0	1.0	3.0	R	-	-	6.0	MS
253	IML16-210	3.8	1.0	2.4	R	6.9	MS	7.0	S
254	IML16-220	3.0	NG	3.0	R	-	-	7.0	S
255	IML16-230	3.6	1.0	2.3	R	7.3	S	9.0	S
256	IML16-231	3.2	1.0	2.1	R	7.0	MS	6.0	MS
257	IML16-237	8.8	1.0	4.9	MR	7.5	S	9.0	S
258	IML16-238	4.0	1.0	2.5	R	-	-	8.0	S
259	IML16-254	5.0	1.0	3.0	R	7.0	MS	7.0	S
260	IML16-269	4.0	1.0	2.5	R	6.8	MS	4.0	MR
261	IML16-279	8.7	1.0	4.9	MR	7.2	S	5.0	MS
262	IML16-282	4.5	1.0	2.8	R	6.1	MS	5.0	MS
263	DML-187-2	5.2	1.0	3.1	MR	6.1	MS	9.0	S
264	DML-313	7.5	1.0	4.3	MR	6.3	MS	6.0	MS
265	DML-187-1	7.2	1.0	4.1	MR	5.4	MS	7.5	S
266	DML-106	7.2	1.0	4.1	MR	6.3	MS	4.0	MR
267	DML-106-1	7.8	1.0	4.4	MR	6.3	MS	8.0	S
268	CM 143	8.4	1.0	4.7	MR	5.8	MS	4.0	MR
269	CM 123	7.0	1.0	4.0	MR	4.3	MR	2.0	R
270	CM 202 X CML 451	6.0	1.0	3.5	MR	6.4	MS	9.0	S
271	CML 117	7.3	1.0	4.2	MR	6.1	MS	8.0	S
272	CML 206	6.0	1.0	3.5	MR	7.1	S	2.0	R
273	CML 266	3.5	1.0	2.3	R	7.3	S	2.0	R
274	CML 33	3.8	1.0	2.4	R	6.7	MS	7.0	S
275	CML 334(W)	5.7	1.0	3.4	MR	6.4	MS	2.0	R
276	CML 373	9.0	1.0	5.0	MR	7.0	MS	2.0	R
277	CML 413	5.8	1.0	3.4	MR	7.0	MS	2.0	R
278	CML 426	4.5	1.0	2.8	R	5.8	MS	2.0	R
279	DML 401-1	4.7	1.0	2.9	R	5.6	MS	2.0	R

Contd.

Table-15

		C.ROT (1-9)						C.RUST (1-9)	
		NWPZ						PZ	
S.No	Genotype	LUDH	DELH	Av. Score	Reaction	HYDE	Reaction	DHAR	Reaction
280	CML 44 BBB	8.0	1.0	4.5	MR	7.0	MS	2.0	R
281	CML 479	3.4	1.0	2.2	R	5.3	MS	2.0	R
282	CML 540 (W)	6.2	1.0	3.6	MR	6.9	MS	2.0	R
283	DML 281	6.6	1.0	3.8	MR	5.0	MR	6.0	MS
284	DML 6	2.8	1.0	1.9	R	6.4	MS	4.0	MR
285	DML 339	6.2	1.0	3.6	MR	6.8	MS	2.0	R
286	DML 57-2	5.4	1.0	3.2	MR	6.7	MS	4.0	MR
287	DPCL 102	5.2	1.0	3.1	MR	7.1	S	2.0	R
288	DPCL 106-1	8.0	1.0	4.5	MR	6.8	MS	4.0	MR
289	DPCL 117	8.2	1.0	4.6	MR	-	-	9.0	S
290	CML 451	6.2	1.0	3.6	MR	6.7	MS	8.0	S
291	HKI 1128	6.8	1.0	3.9	MR	6.0	MS	2.0	R
292	LM 13	5.2	1.0	3.1	MR	6.2	MS	4.0	MR
293	UMI 1210	2.7	1.0	1.9	R	5.5	MS	4.0	MR
294	BML 6	7.2	1.0	4.1	MR	5.5	MS	2.0	R
295	CM 101	6.0	1.0	3.5	MR	6.0	MS	5.0	MS
296	DQL 1019	5.2	1.0	3.1	MR	6.6	MS	7.0	S
297	DQL 1022-1	3.6	1.0	2.3	R	5.9	MS	8.0	S
298	DQL 364-1-4	7.8	1.0	4.4	MR	6.2	MS	4.0	MR
299	DQL 774-171	7.4	1.0	4.2	MR	5.7	MS	2.0	R
300	DQL 779-2-9	7.2	1.0	4.1	MR	5.8	MS	8.0	S
301	DQL 781(Early)-1-4	8.8	1.0	4.9	MR	5.4	MS	8.0	S
302	DQL 784-5-3	6.7	1.0	3.9	MR	6.0	MS	6.0	MS
303	HKI 1040-7	7.2	1.0	4.1	MR	7.3	S	2.0	R
304	HKI 484-5	3.0	1.0	2.0	R	7.5	S	7.0	S
305	LM 12	3.6	1.0	2.3	R	5.7	MS	4.0	MR
306	P 19 (IML-16-19)	4.4	1.0	2.7	R	6.7	MS	4.0	MR
307	P 14 (IML- 16-14)	8.8	1.0	4.9	MR	6.4	MS	8.0	S
308	P 141 (IML-16-141)	3.2	1.0	2.1	R	7.0	MS	2.0	R
309	P 163 (IML-16-163)	6.0	1.0	3.5	MR	-	-	2.0	R
310	P 248 (IML 16-248)	5.2	1.0	3.1	MR	7.5	S	7.0	S
311	P 72 (IML -16-72)	7.0	1.0	4.0	MR	7.0	MS	8.0	S
312	DML 36	4.0	1.0	2.5	R	6.6	MS	6.0	MS
313	DML 92	3.0	1.0	2.0	R	7.7	S	5.0	MS
314	V 335	7.8	1.0	4.4	MR	-	-	2.0	R
315	V 345	8.2	1.0	4.6	MR	-	-	2.0	R
316	CM 143-1	6.4	1.0	3.7	MR	6.0	MS	2.0	R
317	CML 114-1	7.4	1.0	4.2	MR	6.0	MS	2.0	R
318	DML 19-1	7.7	1.0	4.4	MR	6.3	MS	4.0	MR
319	IML 16-108	3.4	1.0	2.2	R	6.5	MS	8.0	S
320	CML 547(W)	2.5	1.0	1.8	R	-	-	6.0	MS
321	DQL 609-20-3 (WG)	5.0	1.0	3.0	R	7.0	MS	7.0	S
322	CML 161/CML 16	6.8	1.0	3.9	MR	7.3	S	2.0	R
323	DQL 1001-1	6.0	1.0	3.5	MR	7.0	MS	7.0	S
324	IML 16-134-1	6.4	1.0	3.7	MR	7.3	S	4.0	MR
325	IML 16-134-2(QPM)	4.2	1.0	2.6	R	7.5	S	5.5	MS
326	CML 152	5.2	1.0	3.1	MR	4.8	MR	6.0	MS
327	VQL 1	8.0	1.0	4.5	MR	-	-	2.0	R
328	VQL 2	4.2	NG	4.2	MR	7.5	S	2.0	R
329	V 341	5.2	1.0	3.1	MR	-	-	2.0	R
330	V 346	7.2	1.0	4.1	MR	5.3	MS	2.0	R
331	V 372	7.5	1.0	4.3	MR	7.5	S	2.0	R
332	DML 212-C	7.0	1.0	4.0	MR	6.2	MS	2.0	R
333	DML 212-B	6.6	1.0	3.8	MR	5.8	MS	7.0	S
334	HKI 1128	7.2	1.0	4.1	MR	-	-	2.0	R
335	LM 13	3.0	1.0	2.0	R	7.1	S	2.0	R
336	UMI 1210	2.0	1.0	1.5	R	6.5	MS	2.0	R
337	BML 6	5.4	1.0	3.2	MR	-	-	2.0	R
338	Res. Check	3.6	-	3.6	MR	-	-	4.0	MR
339	Sus. Check	8.0	-	8.0	S	-	-	8.0	S

Resistant Check:- C. ROT :- CM 123 **(LUDHAIAN); C. RUST :-** CL 4 **(DHARWAD)**
Susceptible Check:- C. ROT :- CM 600 **(LUDHIANA); C. RUST:-** CM 202 **(DHARWAD)**

Table 16.Screening of inbred lines against MLB at different locations in NWPZ

		Maydis leaf blight score (1-9)				
		NWPZ				
S.No	Genotype	DELH	KARN	LUDH	Av. Score	Reaction
1	BGS-1	6.0	5.0	6.0	5.7	MS
2	BGS-2	8.0	5.5	3.0	5.5	MS
3	BGS-3	7.5	5.0	3.5	5.3	MS
4	BGS-4	7.5	7.0	6.5	7.0	MS
5	BGS-5	7.5	5.5	4.5	5.8	MS
6	BGS-6	8.5	5.0	2.5	5.3	MS
7	BGS-7	8.0	4.5	5.5	6.0	MS
8	BGS-8	7.0	5.5	6.0	6.2	MS
9	BGS-9	7.5	4.5	3.0	5.0	MR
10	BGS-10	6.5	4.5	3.5	4.8	MR
11	BGS-11	7.5	5.0	4.0	5.5	MS
12	BGS-12	7.0	4.5	4.0	5.2	MS
13	BGS-13	6.5	6.5	6.5	6.5	MS
14	BGS-14	8.0	8.0	6.0	7.3	S
15	BGS-15	7.5	6.0	3.0	5.5	MS
16	BGS-16	7.0	4.0	5.5	5.5	MS
17	BGS-17	8.0	6.0	5.5	6.5	MS
18	BGS-18	8.0	4.5	4.0	5.5	MS
19	BGS-19	7.0	7.0	5.0	6.3	MS
20	BGS-20	7.0	3.5	3.5	4.7	MR
21	BGS-21	8.0	4.5	3.0	5.2	MS
22	BGS-22	6.0	5.5	3.0	4.8	MR
23	BGS-23	8.0	4.5	5.0	5.8	MS
24	BGS-24	8.0	7.5	6.0	7.2	S
25	BGS-25	7.0	5.0	4.0	5.3	MS
26	BGS-26	8.0	6.0	3.0	5.7	MS
27	BGS-27	8.0	3.5	2.5	4.7	MR
28	BGS-29	7.0	5.5	2.5	5.0	MR
29	BGS-31	8.0	7.0	5.0	6.7	MS
30	BGS-32	7.0	4.0	4.5	5.2	MS
31	BGS-33	8.0	5.0	4.5	5.8	MS
32	BGS-34	7.0	5.5	5.5	6.0	MS
33	BGS-35	7.0	6.0	4.5	5.8	MS
34	BGS-36	8.0	5.0	3.0	5.3	MS
35	BGS-37	7.0	5.0	3.5	5.2	MS
36	BGS-38	6.5	6.5	3.0	5.3	MS
37	BGS-40	8.0	5.0	4.5	5.8	MS
38	BGS-41	7.5	3.0	3.5	4.7	MR
39	BGS-42	7.0	4.0	3.5	4.8	MR
40	BGS-43	7.5	7.0	2.5	5.7	MS
41	BGS-44	8.0	5.5	6.0	6.5	MS
42	BGS-45	7.0	4.5	5.5	5.7	MS
43	BGS-47	7.0	6.5	6.5	6.7	MS
44	BGS-49	8.5	5.5	3.0	5.7	MS
45	BGS-50	8.0	5.0	3.0	5.3	MS
46	BGS-51	8.5	5.0	3.0	5.5	MS
47	BGS-52	8.0	5.5	3.0	5.5	MS
48	BGS-53	7.5	5.0	3.0	5.2	MS
49	BGS-54	8.5	4.5	3.0	5.3	MS
50	BGS-55	8.5	5.5	3.0	5.7	MS
51	BGS-56	6.5	5.5	4.0	5.3	MS

Contd.

Table-16

		Maydis leaf blight score (1-9)				
				NWPZ		
S.No	Genotype	DELH	KARN	LUDH	Av. Score	Reaction
52	BGS-57	7.0	4.0	3.5	4.8	MR
53	BGS-58	7.5	5.5	3.5	5.5	MS
54	BGS-59	6.5	5.5	3.5	5.2	MS
55	BGS-60	6.5	3.5	2.5	4.2	MR
56	BGS-61	8.0	5.0	3.5	5.5	MS
57	BGS-62	6.5	4.0	3.0	4.5	MR
58	BGS-63	8.0	5.5	3.5	5.7	MS
59	BGS-64	8.0	7.5	5.5	7.0	MS
60	BGS-65	8.5	5.5	5.5	6.5	MS
61	BGS-66	8.0	5.0	3.5	5.5	MS
62	BGS-67	8.0	8.0	7.0	7.7	S
63	BGS-69	7.0	5.5	3.0	5.2	MS
64	BGS-70	8.0	4.0	3.5	5.2	MS
65	BGS-71	8.0	9.5	4.0	7.2	S
66	BGS-72	7.5	6.0	4.0	5.8	MS
67	BGS-73	8.0	5.0	4.0	5.7	MS
68	BGS-74	8.0	7.5	5.0	6.8	MS
69	BGS-75	8.5	5.5	4.0	6.0	MS
70	BGS-76	6.5	6.5	4.0	5.7	MS
71	BGS-77	8.0	4.0	4.0	5.3	MS
72	BGS-78	6.5	4.5	4.5	5.2	MS
73	BGS-79	6.5	6.0	4.0	5.5	MS
74	BGS-80	7.0	3.5	3.5	4.7	MR
75	BGS-81	7.0	5.5	4.0	5.5	MS
76	BGS-82	8.0	8.5	7.5	8.0	S
77	BGS-83	7.5	6.0	7.5	7.0	MS
78	BGS-84	7.5	5.5	5.5	6.2	MS
79	BGS-85	7.5	4.5	4.5	5.5	MS
80	BGS-86	7.5	5.5	3.0	5.3	MS
81	BGS-87	5.5	5.0	2.5	4.3	MR
82	BGS-88	6.0	6.0	4.0	5.3	MS
83	BGS-89	7.0	5.0	5.0	5.7	MS
84	BGS-90	8.0	5.0	4.0	5.7	MS
85	BGS-91	6.0	5.5	2.5	4.7	MR
86	BGS-92	7.0	6.0	3.5	5.5	MS
87	BGS-93	7.0	5.5	3.5	5.3	MS
88	BGS-94	8.0	4.5	4.5	5.7	MS
89	BGS-95	6.0	3.5	3.0	4.2	MR
90	BGS-96	6.0	4.5	3.5	4.7	MR
91	BGS-97	7.5	5.0	5.0	5.8	MS
92	BGS-98	7.5	5.0	6.0	6.2	MS
93	BGS-100	6.5	9.0	5.5	7.0	MS
94	4975	7.5	7.0	4.5	6.3	MS
95	5133	7.0	8.5	5.5	7.0	MS
96	5191	7.0	4.0	4.0	5.0	MR
97	????-3	7.5	5.5	3.5	5.5	MS
98	Acc.No.522855	7.5	4.5	2.5	4.8	MR
99	Bio 688	7.0	5.5	4.5	5.7	MS
100	Bio 688	8.0	5.0	4.5	5.8	MS
101	Bio 688-2	7.5	4.5	4.0	5.3	MS
102	CM143	8.0	6.5	6.0	6.8	MS
103	DKC 7074 -1	8.0	7.0	7.0	7.3	S
104	DKC9106-3	7.5	6.5	5.0	6.3	MS

Contd.

Table-16

		Maydis leaf blight score (1-9)				
		NWPZ				
S.No	Genotype	DELH	KARN	LUDH	Av. Score	Reaction
105	EC440415-2	7.0	4.0	3.0	4.7	MR
106	EC598462	8.0	6.5	4.0	6.2	MS
107	EC618228-3	7.0	3.5	2.5	4.3	MR
108	EC646016	7.5	4.0	3.5	5.0	MR
109	EC655729	7.5	3.0	3.5	4.7	MR
110	EH2212-2	8.0	3.5	2.0	4.5	MR
111	GEO Premium Gold-3	6.0	5.5	4.5	5.3	MS
112	HKIPC5	8.0	5.5	7.5	7.0	MS
113	HY10RN-10235-118-1-3	7.5	3.0	4.0	4.8	MR
114	JCS2-7ÄÄÄÄ	6.5	4.5	3.0	4.7	MR
115	KMH25K60-4	7.5	4.5	3.0	5.0	MR
116	Krishna Gold-5	6.5	4.0	5.0	5.2	MS
117	NMH920-2	6.5	4.5	2.5	4.5	MR
118	NMH920-4	8.0	4.5	3.0	5.2	MS
119	P6SC6-BBB-19-BBB--6-2	6.0	3.0	3.5	4.2	MR
120	PAC745	6.0	6.5	4.0	5.5	MS
121	PAC745-4	8.0	7.5	7.0	7.5	S
122	PAC753-5	6.0	4.5	5.0	5.2	MS
123	SafalX2-7	7.0	5.0	3.5	5.2	MS
124	SuperGA105-3	7.5	4.0	5.5	5.7	MS
125	WNC10RNY5183-4	7.0	4.0	7.0	6.0	MS
126	Res. Check	-	-	3.0	3.0	R
127	Sus. Chesk	9.0	-	7.5	8.3	S

Resistant Check:- MLB:- CM 123 **(LUDHAIAN)**

Susceptible Check:- MLB:- CM 600 **(LUDHIANA)**

Table 17. Screening of inbred lines against TLB at different locations in NHZ & PZ

Turcium leaf blight score (1-9)									
		NHZ				PZ			
S.No	Genotype	ALMO	BAJA	Av. Score	Reaction	DHAR	MAND	Av. Score	Reaction
1	BGS-1	4.0	3.0	3.5	MR	5.5	3.5	4.5	MR
2	BGS-2	6.0	3.5	4.8	MR	6.0	4.5	5.3	MS
3	BGS-3	7.5	6.5	7.0	MS	9.0	4.0	6.5	MS
4	BGS-4	2.0	3.5	2.8	R	6.5	2.0	4.3	MR
5	BGS-5	6.0	4.0	5.0	MR	9.0	3.5	6.3	MS
6	BGS-6	5.0	5.0	5.0	MR	8.5	4.0	6.3	MS
7	BGS-7	3.0	3.5	3.3	MR	8.0	3.5	5.8	MS
8	BGS-8	5.5	4.0	4.8	MR	6.5	3.5	5.0	MR
9	BGS-9	6.5	3.0	4.8	MR	8.5	2.5	5.5	MS
10	BGS-10	6.0	2.5	4.3	MR	7.3	2.5	4.9	MR
11	BGS-11	6.5	4.0	5.3	MS	8.5	3.5	6.0	MS
12	BGS-12	6.0	4.0	5.0	MR	9.0	4.0	6.5	MS
13	BGS-13	5.5	3.0	4.3	MR	6.0	4.0	5.0	MR
14	BGS-14	6.0	4.0	5.0	MR	8.0	4.0	6.0	MS
15	BGS-15	6.5	3.5	5.0	MR	9.0	4.0	6.5	MS
16	BGS-16	7.5	4.5	6.0	MS	8.5	3.0	5.8	MS
17	BGS-17	5.0	3.0	4.0	MR	7.5	3.5	5.5	MS
18	BGS-18	6.5	4.0	5.3	MS	7.0	4.0	5.5	MS
19	BGS-19	6.0	3.5	4.8	MR	7.5	4.0	5.8	MS
20	BGS-20	5.0	2.0	3.5	MR	7.5	4.0	5.8	MS
21	BGS-21	3.0	3.0	3.0	R	3.5	4.0	3.8	MR
22	BGS-22	3.0	2.5	2.8	R	6.0	2.5	4.3	MR
23	BGS-23	6.5	3.0	4.8	MR	7.5	3.5	5.5	MS
24	BGS-24	1.0	3.0	2.0	R	2.0	3.0	2.5	R
25	BGS-25	5.0	3.0	4.0	MR	6.5	3.0	4.8	MR
26	BGS-26	3.5	3.5	3.5	MR	6.8	3.5	5.1	MS
27	BGS-27	1.0	3.5	2.3	R	5.0	3.5	4.3	MR
28	BGS-28	3.0	3.0	3.0	R	4.0	3.5	3.8	MR
29	BGS-29	5.0	3.0	4.0	MR	5.5	3.0	4.3	MR
30	BGS-30	4.0	2.0	3.0	R	6.0	4.0	5.0	MR
31	BGS-31	4.0	3.0	3.5	MR	9.0	2.5	5.8	MR
32	BGS-32	1.0	2.5	1.8	R	3.0	3.0	3.0	R
33	BGS-33	6.0	3.0	4.5	MR	4.5	3.5	4.0	MR
34	BGS-34	5.5	2.0	3.8	MR	6.3	2.5	4.4	MR
35	BGS-35	1.0	2.0	1.5	R	6.5	3.5	5.0	MR
36	BGS-36	6.0	3.0	4.5	MR	9.0	3.0	6.0	MS
37	BGS-37	4.0	2.0	3.0	R	7.5	3.0	5.3	MS
38	BGS-38	2.0	2.5	2.3	R	4.5	3.0	3.8	MR
39	BGS-39	3.0	3.0	3.0	R	4.0	2.5	3.3	MR
40	BGS-40	5.0	3.5	4.3	MR	8.0	3.5	5.8	MS
41	BGS-41	3.0	2.0	2.5	R	4.0	4.0	4.0	MR
42	BGS-42	1.0	2.5	1.8	R	4.8	4.0	4.4	MR
43	BGS-43	6.0	3.0	4.5	MR	5.8	2.5	4.1	MR
44	BGS-44	5.0	5.0	5.0	MR	3.3	4.0	3.6	MR
45	BGS-45	7.0	3.0	5.0	MR	9.0	4.0	6.5	MS
46	BGS-46	7.0	4.0	5.5	MS	9.0	3.5	6.3	MS
47	BGS-47	2.0	3.5	2.8	R	4.5	4.5	4.5	MR
48	BGS-48	6.0	4.0	5.0	MR	9.0	3.5	6.3	MS
49	BGS-49	6.5	4.0	5.3	MS	9.0	3.0	6.0	MS
50	BGS-50	3.5	3.0	3.3	MR	3.5	4.0	3.8	MR
51	BGS-51	5.5	3.0	4.3	MR	9.0	3.5	6.3	MS
52	BGS-52	6.5	5.0	5.8	MS	9.0	3.0	6.0	MS
53	BGS-53	6.0	4.0	5.0	MR	7.5	3.5	5.5	MS
54	BGS-54	6.5	4.5	5.5	MS	9.0	3.0	6.0	MS
55	BGS-55	7.0	6.0	6.5	MS	6.0	3.5	4.8	MR
56	BGS-56	6.0	5.5	5.8	MS	8.0	4.0	6.0	MS
57	BGS-57	6.0	4.0	5.0	MR	8.0	4.0	6.0	MS

Contd.

Table-17

Turcium leaf blight score (1-9)									
		NHZ				PZ			
S.No	Genotype	ALMO	BAJA	Av. Score	Reaction	DHAR	MAND	Av. Score	Reaction
58	BGS-58	3.0	2.5	2.8	R	2.0	4.0	3.0	R
59	BGS-59	1.0	3.0	2.0	R	2.0	3.0	2.5	R
60	BGS-60	5.0	2.0	3.5	MR	6.8	3.0	4.9	MR
61	BGS-61	5.0	2.5	3.8	MR	7.0	2.0	4.5	MR
62	BGS-62	7.0	5.5	6.3	MS	8.5	4.0	6.3	MS
63	BGS-63	6.0	6.0	6.0	MS	7.0	4.0	5.5	MS
64	BGS-64	7.5	3.0	5.3	MS	6.0	6.0	6.0	MS
65	BGS-65	6.0	3.0	4.5	MR	6.0	3.0	4.5	MR
66	BGS-66	3.0	3.5	3.3	MR	3.0	3.5	3.3	MR
67	BGS-67	3.0	3.5	3.3	MR	6.5	3.0	4.8	MR
68	BGS-68	1.0	2.5	1.8	R	3.0	3.0	3.0	R
69	BGS-69	6.5	5.5	6.0	MS	9.0	3.5	6.3	MS
70	BGS-70	6.0	5.0	5.5	MS	9.0	3.5	6.3	MS
71	BGS-71	5.0	3.0	4.0	MR	9.0	3.0	6.0	MS
72	BGS-72	4.0	2.0	3.0	R	7.5	3.5	5.5	MS
73	BGS-73	5.5	4.5	5.0	MR	7.5	3.5	5.5	MS
74	BGS-74	6.5	3.0	4.8	MR	8.5	4.5	6.5	MS
75	BGS-75	4.0	3.5	3.8	MR	5.5	3.0	4.3	MR
76	BGS-76	3.0	2.5	2.8	R	4.5	4.0	4.3	MR
77	BGS-77	3.0	2.5	2.8	R	5.0	3.0	4.0	MR
78	BGS-78	2.0	3.5	2.8	R	6.5	3.5	5.0	MR
79	BGS-79	3.0	3.0	3.0	R	8.5	2.5	5.5	MS
80	BGS-80	1.0	3.5	2.3	R	2.0	3.0	2.5	R
81	BGS-81	3.0	2.0	2.5	R	3.0	4.0	3.5	MR
82	BGS-82	3.0	4.0	3.5	MR	5.5	3.0	4.3	MR
83	BGS-83	5.5	4.0	4.8	MR	4.5	3.0	3.8	MR
84	BGS-84	3.0	4.5	3.8	MR	9.0	3.5	6.3	MS
85	BGS-85	3.0	4.0	3.5	MR	6.5	3.5	5.0	MR
86	BGS-86	3.5	2.5	3.0	R	5.0	4.0	4.5	MR
87	BGS-87	6.5	4.0	5.3	MS	7.5	3.0	5.3	MS
88	BGS-88	6.0	3.0	4.5	MR	5.0	2.5	3.8	MR
89	BGS-89	6.0	4.0	5.0	MR	9.0	4.0	6.5	MS
90	BGS-90	6.0	3.0	4.5	MR	7.0	3.5	5.3	MS
91	BGS-91	3.0	3.5	3.3	MR	6.0	5.0	5.5	MS
92	BGS-92	5.5	2.5	4.0	MR	9.0	3.0	6.0	MS
93	BGS-93	5.0	3.0	4.0	MR	6.5	4.5	5.5	MS
94	BGS-94	1.0	2.5	1.8	R	1.0	4.0	2.5	R
95	BGS-95	3.0	3.0	3.0	R	3.0	3.0	3.0	R
96	BGS-96	3.0	3.5	3.3	MR	4.5	3.5	4.0	MR
97	BGS-97	1.0	2.5	1.8	R	3.5	3.5	3.5	MR
98	BGS-98	8.0	5.5	6.8	MS	9.0	3.5	6.3	MS
99	BGS-99	6.0	3.5	4.8	MR	7.5	4.0	5.8	MS
100	BGS-100	3.5	2.5	3.0	R	4.0	2.5	3.3	MR
101	4840	1.0	2.5	1.8	R	3.0	3.0	3.0	R
102	Acc.No.411284	7.5	3.5	5.5	MS	9.0	3.0	6.0	MS
103	CM117-3-4-1	1.0	3.5	2.3	R	2.0	3.5	2.8	R
104	CML420	2.0	3.0	2.5	R	1.5	3.0	2.3	R
105	CML56	5.0	4.5	4.8	MR	8.0	3.0	5.5	MS
106	EC672792	5.0	4.5	4.8	MR	7.5	3.0	5.3	MS
107	GPM456	7.0	4.5	5.8	MS	9.0	3.5	6.3	MS
108	JCY2-1-2-1	1.0	2.5	1.8	R	3.0	3.0	3.0	R
109	LM13	3.5	3.0	3.3	MR	4.0	3.0	3.5	MS
110	LM13	3.5	3.5	3.5	MR	3.0	2.5	2.8	R
111	PAC745	3.0	2.5	2.8	R	2.5	2.5	2.5	R
112	PFSR14-1-2TIPFILL	5.0	3.0	4.0	MR	5.5	3.5	4.5	MS
113	PFSRR9	1.0	3.0	2.0	R	2.5	3.5	3.0	R
114	SuperGA105-3	4.0	4.0	4.0	MR	5.0	4.0	4.5	MR
115	Rc	1.0	-	1.0	R	4.0	2.5	3.3	MR
116	SC	9.0	-	9.0	S	9.0	8.0	8.5	S

Resistant Check:- TLB:- V 341**(ALMORA);** CL 4 **(DHARWAD);** NAH 2049 **(MANDYA)**

Susceptible Check:- TLB:- DHARI LOCAL **(ALMORA);** CM 202 **(DHARWAD, MANDYA)**

Table 18. Screening of inbred lines against BLSB at different locations in NWPZ

		Banded leaf and sheath blight score (1-9)				
			NWPZ			NHZ
S.No	Genotype	DLEH	PANT	Av. Score	Reaction	DHAU*
1	BGS-1	6.0	9.0	7.5	S	1.0
2	BGS-2	3.0	9.0	6.0	MS	3.0
3	BGS-5	5.0	9.0	7.0	MS	3.5
4	BGS-15	3.0	7.5	5.3	MS	5.0
5	BGS-23	4.5	8.8	6.6	MS	2.0
6	BGS-25	3.5	8.0	5.8	MS	1.0
7	BGS-27	3.0	-	3.0	R	2.5
8	BGS-31	7.0	8.0	7.5	S	3.0
9	BGS-35	4.5	9.0	6.8	MS	2.5
10	BGS-36	8.0	9.0	8.5	S	2.5
11	BGS-44	4.5	9.0	6.8	MS	3.5
12	BGS-49	3.0	9.0	6.0	MS	1.5
13	BGS-50	5.0	8.0	6.5	MS	3.5
14	BGS-51	5.0	9.0	7.0	MS	2.0
15	BGS-52	5.5	8.5	7.0	MS	2.5
16	BGS-53	2.5	7.0	4.8	MR	5.5
17	BGS-54	5.0	9.0	7.0	MS	2.5
18	BGS-55	5.0	9.0	7.0	MS	1.5
19	BGS-57	4.0	9.0	6.5	MS	1.5
20	BGS-58	6.0	9.0	7.5	S	2.5
21	BGS-61	7.5	9.0	8.3	S	1.5
22	BGS-62	4.0	8.8	6.4	MS	2.0
23	BGS-63	3.0	9.0	6.0	MS	2.5
24	BGS-64	6.0	9.0	7.5	S	3.0
25	BGS-67	5.5	9.0	7.3	S	1.5
26	BGS-72	4.5	8.8	6.6	MS	2.5
27	BGS-73	5.0	9.0	7.0	MS	3.0
28	BGS-74	4.0	9.0	6.5	MS	2.5
29	BGS-75	7.5	9.0	8.3	S	2.0
30	BGS-76	4.0	9.0	6.5	MS	2.0
31	BGS-77	4.5	9.0	6.8	MS	4.0
32	BGS-79	5.0	-	5.0	MR	1.5
33	BGS-82	4.0	9.0	6.5	MS	1.0
34	BGS-84	6.0	9.0	7.5	S	3.5
35	BGS-87	3.0	9.0	6.0	MS	2.0
36	BGS-89	4.0	9.0	6.5	MS	2.5
37	BGS-90	6.5	9.0	7.8	S	3.5
38	BGS-93	3.0	9.0	6.0	MS	2.5
39	BGS-94	3.0	8.3	5.6	MS	1.0
40	BGS-96	3.0	9.0	6.0	MS	4.0
41	BGS-98	4.0	9.0	6.5	MS	2.0
42	????-3	4.5	7.0	5.8	MS	4.0
43	Acc No. 556401-4	6.0	9.0	7.5	S	4.0
44	AE09610R	3.0	9.0	6.0	MS	3.0
45	Bio 688	4.5	9.0	6.8	MS	3.0
46	Bio 688	3.5	9.0	6.3	MS	2.0
47	Bio 688	4.5	9.0	6.8	MS	1.0
48	Bio 688	4.0	9.0	6.5	MS	1.5
49	Bio 688-2	3.5	9.0	6.3	MS	1.0
50	Bio719-5	4.0	-	4.0	MR	1.0
51	Bio9544-4	3.0	6.5	4.8	MR	2.5
52	CM143	7.0	9.0	8.0	S	4.0

Contd.

Table-18

		Banded leaf and sheath blight score (1-9)				
				NWPZ		NHZ
S.No	Genotype	DLEH	PANT	Av. Score	Reaction	DHAU*
53	CMH08292-5	2.0	7.0	4.5	MR	2.5
54	CP828-2	3.5	9.0	6.3	MS	2.5
55	CP828-3	2.0	9.0	5.5	MS	4.5
56	DKC 7074 -1	4.5	9.0	6.8	MS	3.0
57	DKC9106-3	2.0	7.5	4.8	MR	1.5
58	EC440415-2	4.5	5.5	5.0	MR	3.0
59	EC440415-4	2.5	8.0	5.3	MS	2.0
60	EC618228-3	6.0	9.0	7.5	S	5.0
61	EH2212-2	3.5	9.0	6.3	MS	2.5
62	FCH 85 -2	4.5	8.5	6.5	MS	1.0
63	FMH11195	3.0	8.5	5.8	MS	1.5
64	GEO Premium Gold-3	4.5	9.0	6.8	MS	3.0
65	GEO2101-4	4.0	8.5	6.3	MS	4.0
66	Hishell	3.0	9.0	6.0	MS	1.5
67	Hishell-2	4.0	6.0	5.0	MR	1.5
68	KDMI10	2.5	9.0	5.8	MS	1.0
69	KH2192-4	3.5	9.0	6.3	MS	1.0
70	KMH25K60-4	6.0	9.0	7.5	S	3.5
71	Krishna Gold-5	4.0	9.0	6.5	MS	2.0
72	Krishna Gold-8	4.0	9.0	6.5	MS	1.5
73	LG3271-2	3.5	8.5	6.0	MS	2.0
74	LM10/LM11-2	2.5	8.5	5.5	MS	3.0
75	NMH920	3.0	9.0	6.0	MS	3.5
76	NMH920-2	5.0	9.0	7.0	MS	2.0
77	NMH920-4	3.0	5.5	4.3	MR	1.5
78	PAC745-4	3.5	9.0	6.3	MS	2.0
79	PAC753-5	2.0	8.5	5.3	MS	1.0
80	Polo-6	5.0	9.0	7.0	MS	3.0
81	SafalX2-7	2.0	9.0	5.5	MS	3.5
82	Siri4527-3	2.5	9.0	5.8	MS	3.0
83	TX369-2	2.5	8.8	5.6	MS	1.0
84	WNC10RNY4810-2	3.0	9.0	6.0	MS	3.5
85	WNC10RNY5076-2	3.0	7.0	5.0	MR	1.0
86	WNC10RNY5183-4	3.5	9.0	6.3	MS	3.0
87	WNC10RNY5313	3.0	9.0	6.0	MS	3.0
88	WNC10RNY5313-2	4.0	9.0	6.5	MS	1.5
89	Sus. Check	5.0	-	5.0	MR	4.0

*Data not considered due to low disease pressure

Susceptible Check:- BLSB:- DKC 7074 **(DHAULAKUAN)**

Table 19. Screening of inbred lines against Charcoal rot at Ludhiana in NWPZ

		C.ROT	
		NWPZ	
S.No	Genotype	LUDH	Reaction
1	BGS-1	5.6	MS
2	BGS-5	4.6	MR
3	BGS-13	7.9	S
4	BGS-14	5.4	MS
5	BGS-15	3.2	MR
6	BGS-19	4.8	MR
7	BGS-21	6.6	MS
8	BGS-23	4.5	MR
9	BGS-25	3.8	MR
10	BGS-31	5.9	MS
11	BGS-33	6.9	MS
12	BGS-35	7.7	S
13	BGS-37	4.5	MR
14	BGS-44	5.5	MS
15	BGS-46	6.6	MS
16	BGS-50	4.0	MR
17	BGS-52	4.5	MR
18	BGS-53	5.9	MS
19	BGS-54	4.4	MR
20	BGS-55	8.0	S
21	BGS-56	4.5	MR
22	BGS-58	5.7	MS
23	BGS-61	4.2	MR
24	BGS-63	7.4	S
25	BGS-70	4.2	MR
26	BGS-72	6.3	MS
27	BGS-73	4.4	MR
28	BGS-76	5.6	MS
29	BGS-77	6.0	MS
30	BGS-79	5.9	MS
31	BGS-82	6.9	MS
32	BGS-84	4.8	MR
33	BGS-87	3.6	MR
34	BGS-89	5.1	MS
35	BGS-90	4.1	MR
36	BGS-92	7.5	S
37	BGS-93	4.0	MR
38	BGS-94	3.4	MR
39	BGS-96	5.1	MS
40	BGS-98	6.5	MS
41	4840	4.4	MR
42	4840	5.2	MS
43	6354	3.5	MR
44	((CML34-(1+2)-1-1-B1-B/WL-18-6-2-3-3-1-B*5)//(CML34-(1+2)-1-1-BBB))-B-12-BB-B	5.4	MS
45	701-2	5.6	MS
46	Acc No. 556401-4	8.7	S
47	Acc.No.470144	5.5	MS
48	AE09610R	6.8	MS

Contd.

Table-19

		C.ROT	
		NWPZ	
S.No	Genotype	LUDH	Reaction
49	Bio 688	6.5	MS
50	Bio 688	6.2	MS
51	Bio 688-2	3.7	MR
52	Bio 688-2	4.0	MR
53	Bio719-5	3.9	MR
54	Bio9544-4	6.1	MS
55	CLRCY030-B*4-B	5.2	MS
56	CM111	5.9	MS
57	CM111´Zeadiploperennis´CM111	4.1	MR
58	CMH08292-5	3.3	MR
59	CML420	5.0	MR
60	CP828-2	5.9	MS
61	CP828-3	3.7	MR
62	DLQ1017-A	4.2	MR
63	DMRPE6	7.6	S
64	DMRWNCHOC45	3.9	MR
65	EC440415-4	4.1	MR
66	EC595758	8.2	S
67	EC-615225	4.1	MR
68	EC618179	2.8	R
69	EC618235	2.5	R
70	EC618988	4.8	MR
71	EC61910R0	5.4	MS
72	EH2212	4.1	MR
73	Entry4	3.1	MR
74	EYSyn-B-#-35-B-1-B	6.6	MS
75	FCH 85 -2	4.9	MR
76	FMH11195	5.0	MR
77	GEO2101-4	4.2	MR
78	GPM342	4.2	MR
79	Hishell	3.4	MR
80	Hishell-2	3.5	MR
81	HKI209-2	5.6	MS
82	HQPM-1-6-2-3-2-1-2	4.6	MR
83	HY10R-N10235-118	3.7	MR
84	HY10RN-10235-270-2-2	5.0	MR
85	Hyd05R/13-2	6.0	MS
86	JCY2-7-1-2-1-5B-1-4-3-1	3.6	MR
87	KDMI10	3.6	MR
88	KH2192-4	4.4	MR
89	Krishna Gold-8	4.1	MR
90	LG3271-2	5.5	MS
91	LM10/LM11-2	4.5	MR
92	LM9	6.6	MS
93	NMH920-4	3.5	MR
94	NN42050-1-1	4.8	MR
95	PAC745	3.4	MR
96	PAC745-4	4.0	MR
97	PFSRR10	4.4	MR

Contd.

Table-19

		C.ROT	
		NWPZ	
S.No	Genotype	LUDH	Reaction
98	PFSRR3ÄÄÄÄÄÄ	3.7	MR
99	POB45c9F22-18-3-1-B*4-1-B*9	7.6	S
100	POBLAC70C0ÄÄÄ	4.6	MR
101	Polo-6	7.1	S
102	S99TLYQ-HG-AB*4-32-BBB-1	3.1	MR
103	Siri4527-3	4.1	MR
104	TX369-2	5.0	MR
105	WNC10RNY4810-2	4.1	MR
106	WNC10RNY5076-2	5.5	MS
107	WNC10RNY5313	6.1	MS
108	WNC10RNY5313-2	4.0	MR
109	Res. Check	3.2	MR
110	Sus. Check	6.8	MS

Resistant Check:- C. ROT:- CM 123 **(LUDHIANA)**

Susceptible Check:- C. ROT:- LTP-1 **(LUDHIANA)**

Table 20. Screening of inbred lines against RDM & SDM

		SDM (%)		RDM (%)	
		PZ		CWZ	
S.No	Genotype	MAND	Reaction	UDAI	Reaction
1	BGS-3	75.0	S	7.5	R
2	BGS-4	100.0	S	14.5	MR
3	BGS-9	95.5	S	12.5	MR
4	BGS-10	100.0	S	26.5	MS
5	BGS-11	93.8	S	4.5	R
6	BGS-12	450.0	S	5.0	R
7	BGS-16	100.0	S	35.0	MS
8	BGS-20	66.0	S	10.0	R
9	BGS-22	75.0	S	25.0	MR
10	BGS-24	100.0	S	0.0	R
11	BGS-26	85.0	S	25.0	MR
12	BGS-28	36.6	MS	0.0	R
13	BGS-29	100.0	S	35.5	MS
14	BGS-30	85.0	S	38.5	M
15	BGS-32	48.9	MS	11.0	MR
16	BGS-34	100.0	S	57.5	S
17	BGS-36	100.0	S	0.0	R
18	BGS-39	100.0	S	16.5	MR
19	BGS-40	100.0	S	11.3	MR
20	BGS-42	100.0	S	57.5	S
21	BGS-43	75.0	S	6.0	R
22	BGS-45	100.0	S	0.0	R
23	BGS-47	100.0	S	34.5	MS
24	BGS-48	75.0	S	36.5	MS
25	BGS-51	62.5	S	32.0	MS
26	BGS-53	100.0	S	3.0	R
27	BGS-54	57.2	S	14.0	MR
28	BGS-60	100.0	S	10.0	R
29	BGS-65	70.5	S	7.0	R
30	BGS-66	70.0	S	7.0	R
31	BGS-71	84.5	S	38.0	MS
32	BGS-80	81.8	S	6.5	R
33	BGS-81	89.5	S	16.5	MR
34	BGS-83	100.0	S	65.0	S
35	BGS-85	100.0	S	33.0	MS
36	BGS-87	90.0	S	47.0	MS
37	BGS-88	57.6	S	4.0	R
38	BGS-95	85.0	S	2.5	R
39	BGS-97	90.0	S	10.0	R
40	BGS-99	45.0	MS	38.0	MS
41	BGS-100	100.0	S	66.5	S
42	4835	37.0	MS	52.0	S
43	4840	78.0	S	43.5	MS
44	5000	100.0	S	13.0	MR
45	5023	100.0	S	45.7	MS
46	5112	100.0	S	41.0	MS
47	5191	67.5	S	0.0	R
48	5202	100.0	S	58.5	S
49	5331	100.0	S	19.0	MR
50	(CA14502/CA14509)-F2-14-1-BBB-CML451-BBB-OPc14-S1	59.2	S	13.5	MR

Contd.

Table-20

		SDM (%)		RDM (%)	
		PZ		CWZ	
S.No	Genotype	MAND	Reaction	UDAI	Reaction
51	(CML34-(1+2)-1-1-B1-B/Pop61C1QPMTEYF-40-1-3-2-1-B-1-B)-BBB-B2-B	69.2	S	18.8	MR
52	(DTPYC9-F142-1-3-1-2-1-2-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B)-BBB-2-B	100.0	S	55.0	S
53	951-4	100.0	S	26.5	MS
54	Acc.No.524093	100.0	S	8.0	R
55	Acc.No.563959	100.0	S	-	-
56	Acc.No.563959	67.9	S	-	-
57	Acc.No.584775	100.0	S	11.5	MR
58	Bio 688	100.0	S	27.0	MS
59	Bio 688	100.0	S	0.0	R
60	CM111´Zeadiploperennis´CM111	80.0	S	0.0	R
61	CM119	100.0	S	66.5	S
62	CM123	68.5	S	15.0	MR
63	CM143	75.0	S	8.5	R
64	CML121	85.0	S	49.0	MS
65	CML23	81.7	S	10.5	MR
66	CML269ÄÄÄÄ	95.0	S	21.5	MR
67	CML287	100.0	S	0.0	R
68	CML327	100.0	S	3.5	R
69	CML342ÄÄÄÄ	100.0	S	100.0	S
70	CML342ÄÄÄÄ	83.4	S	57.5	S
71	CML400-B-B	100.0	S	50.0	MS
72	CML74	100.0	S	45.0	MS
73	DKC 7074 -1	56.1	S	28.5	MS
74	DLQ1018-A-1	100.0	S	16.5	MR
75	DLQ1018-D	78.4	S	50.0	MS
76	DMRWNCHOC45	100.0	S	9.0	R
77	DMSC-36-1	100.0	S	56.5	S
78	DMSC8	100.0	S	40.0	MS
79	E9G(OT)	29.8	MS	16.0	MR
80	EC440415-2	62.5	S	5.5	R
81	EC440608	93.8	S	0.0	R
82	EC440609	100.0	S	20.0	MR
83	EC440623	100.0	S	20.0	MR
84	EC440638	100.0	S	5.0	R
85	EC595976	94.5	S	100.0	S
86	EC610571	56.7	MS	27.5	MS
87	EC615228(A)	100.0	S	28.0	MS
88	EC618201	95.0	S	23.5	MR
89	EC618201	100.0	S	23.0	MR
90	EC618234	57.9	S	31.5	MS
91	EC618234	100.0	S	50.0	MS
92	EC619005	56.1	S	15.5	MR
93	EC646016	82.8	S	60.0	S
94	EC646044	100.0	S	12.5	MR
95	EC646061	90.9	S	0.0	R
96	EC655771	59.1	S	40.0	MS
97	EC655781	86.4	S	25.0	MR
98	EC672845	100.0	S	9.0	R

Contd.

Table-20

		SDM (%)		RDM (%)	
		PZ		CWZ	
S.No	Genotype	MAND	Reaction	UDAI	Reaction
99	HKI040-7	95.0	S	44.5	MS
100	HKI1040-11	100.0	S	21.5	MR
101	HKI488	50.0	MS	82.5	S
102	HQPM-7-4-2-1-1-1-2	100.0	S	12.5	MR
103	HY10RN-10235-118-1-4	100.0	S	27.5	MS
104	JCS796CH8	100.0	S	12.5	MR
105	JCY3-7	39.2	MS	23.5	MR
106	JCY3-7ÄÄÄÄ	91.7	S	27.0	MS
107	KDM500	100.0	S	41.0	MS
108	LM16	100.0	S	34.5	MS
109	LM16	75.0	S	37.0	MS
110	LM5	100.0	S	0.0	R
111	LMP3	100.0	S	12.5	MR
112	MAI8	95.0	S	12.5	MR
113	MYSyn-A-#-66-B-2-B	79.2	S	54.5	S
114	NMH920	100.0	S	54.0	S
115	NZB2012	80.0	S	9.0	R
116	NZBOPH	62.5	S	5.0	R
117	P446-34-1-4-B*5-1-B*8	95.5	S	50.0	MS
118	PAC745-4	35.4	MS	3.5	R
119	PFSR46	100.0	S	7.0	R
120	PFSR63	83.4	S	16.5	MR
121	POBLAC61C4	100.0	S	77.5	S
122	Poltol´Z.perviglumis	85.0	S	13.5	MR
123	S99TLYQ-HG-AB*4-25-BBB-1	100.0	S	64.5	S
124	S99TLYQ-HG-AB*4-25-BBB-1	100.0	S	65.0	S
125	SuperGA105-3	100.0	S	100.0	S
126	SW92145-2P9S2-##-B*6-1-B-2-B*6	100.0	S	18.5	MR
127	Temp x Trop (H0)QPMÄÄ	51.3	S	22.0	MR
128	WLS-F102-3-2-1-B-1-B/WLS-F287-1-3-1-B-1-B*6-B	100.0	S	7.0	R
129	WLS-F183-3-2-2-B-2-B/SO4YLWL-172-B·1-1-B-1-B*5-B2-B	83.0	S	12.5	MR
130	WLS-F191-2-1-1-B-1-B/SO4YLWL-172-B·1-1-B-1-B*5-B1-B	95.5	S	7.0	R
131	WNC11RMP847	75.0	S	58.5	S
132	WNCDMR08RYDWS639	56.3	S	23.5	MR
133	WNCDMR11R27290	21.3	S	0.0	R
134	WNCDMRNC370	100.0	S	22.0	MR
135	Res. Check	11.1	MR	-	-
136	Sus. Check	80.0	S	-	-

Resistant Check:- SDM:- NAH 1137 **(MANDYA)**
Susceptible Check:- SDM:- CM 500 **(MANDYA)**

Table 21. Screening of maize genotypes against PFSR

		PFSR (1-9)					
S.No	Genotype	HYDE	LUDH	UDAI	DELH	Av. Score	Reaction
1	AF -04-B-5779-22-3–3-2-2-1-1-2-Ä-1-1	4.5	6.2	2.5	2.3	3.9	MR
2	PFSR (Y)-C0-1-Ä-4-1Ä-1-1-1-3Ä-1-1-1-1-2-Ä-1-1	3.0	3.6	2.5	2.8	3.0	R
3	PFSR (Y)-C0-1-Ä-4-1Ä-1-1-1-3Ä-1-1-2-1-2-Ä-1-1	5.3	6.2	2.5	2.7	4.2	MR
4	PFSR (Y)-C0-3Ä-1-1-1-1-1-Ä-2-1	4.4	4.8	NG	2.5	3.9	MR
5	Indimyt-345-3Ä-2-1-2-Ä-1-3	4.4	3.3	NG	2.9	3.5	MR
6	North east 4-1 (N)- Ä -1-1-2-Ä-1-1	3.6	5.4	NG	3.3	4.1	MR
7	North east 4-1 (N)- Ä -1-1-2-Ä-1-2	3.8	6.0	NG	2.4	4.1	MR
8	PFSR (Y)-C1-B Ä-1-1-1-1-Ä-1-1	4.1	3.7	2.3	3.0	3.3	MR
9	PFSR (Y)-C1-B Ä-1-1-1-1-Ä-2-1	4.8	4.3	2.4	2.5	3.5	MR
10	PFSR (Y)-C1-B Ä-2-2-1-2-Ä-2-1	3.6	4.2	2.0	2.7	3.1	MR
11	PFSR (Y)-C0 Ä-2-1-1-1-Ä-2-1	4.3	4.6	NG	2.0	3.6	MR
12	CML 370-1-2-1-1-1-1-Ä-1-1	4.6	4.2	NG	2.0	3.6	MR
13	JCY3-7-1-2-1-'b-6-1-2-1 -1-1-1-2-Ä-1-1	4.0	5.4	NG	1.8	3.7	MR
14	JCY3-7-1-2-1-'b-6-1-2-1 -1-1-1-2-Ä-2-1	5.2	4.6	NG	1.8	3.9	MR
15	CML 269-1-2-1-1-2-Ä-2-1	2.6	6.0	NG	2.3	3.6	MR
16	TL02A-1184A-32-4 -1-1-1-2-2-1-Ä-3-1	5.0	6.0	NG	2.3	4.4	MR
17	AF -04-B-5779-22-3– 3-2-1-2-1-Ä-1-1	2.4	6.2	NG	2.6	3.7	MR
18	AF-04-B-5796-A-7-1-2-2-1-2-1-1-Ä-1-1	5.2	4.4	NG	2.4	4.0	MR
19	V338 -1Ä-1-1-1 -1-Ä-1 -1	3.2	8.4	NG	2.3	4.6	MR
20	V338 -1Ä-1-1-1 -1-Ä-2 -1	4.4	8.0	3.0	2.8	4.6	MR
21	PFSR (Y)-C0-3Ä-1-2-1-Ä-1-1	5.0	5.2	2.3	3.0	3.9	MR
22	Indimyt-100-2Ä-1-1-2-1-Ä-1-1	4.8	4.8	3.2	2.2	3.7	MR
23	CM 202-2-1-1-Ä-1-1	2.8	5.6	1.9	2.6	3.2	MR
24	CM 501-1-1-1-Ä-1-1	4.3	4.8	1.6	2.3	3.2	MR
25	CM 111-1-1-1-Ä-1-1	4.4	4.4	2.8	2.3	3.5	MR
26	CM 123-1-1-1-Ä-1-1	4.0	3.7	2.2	2.6	3.1	MR
27	CM 133-1-1-Ä-1-1	4.0	3.7	2.0	2.4	3.0	R
28	CM 105-2-1-1-Ä-1-1	3.6	4.0	4.5	2.0	3.5	MR
29	CM 105-2-2-1-Ä-1-1	3.3	3.4	3.3	1.7	2.9	R
30	CML 297-1-2 -Ä-1-2	3.5	5.0	NG	3.3	3.9	MR
31	CML 27-1-1-1-Ä-1-1	2.7	8.0	3.6	2.9	4.3	MR
32	CML 27-1-1-1-Ä-2-1	2.5	3.8	3.6	2.5	3.1	MR
33	CML 44-1-1-1-Ä-1-1	3.7	3.2	2.7	2.6	3.0	R
34	CML 353-1-1-1-Ä-1-1	3.2	3.2	3.7	2.6	3.2	MR
35	North east 4-1 (N)-1-Ä-1-1	2.6	2.7	3.6	2.9	2.9	R
36	Indimyt-145 Ä-1-1-1-1-Ä-1-1	4.3	4.2	4.0	2.8	3.8	MR
37	PFSR (Y)-C1-B Ä-1-1-1-1-Ä-2-1	3.9	3.5	2.2	2.5	3.0	R
38	CML 342 – 1-1-2-Ä-1-1	3.1	6.8	4.5	2.0	4.1	MR
39	AF -04-B-5779-22-3– 3-2-1-2-1-Ä-2	3.2	5.4	5.0	2.8	4.1	MR
40	CM 115-4-2 -3-2-2-1-2-2-1-Ä-1-1	4.9	4.8	2.5	2.6	3.7	MR
41	CML 249-1-2-1-1-1-1-Ä-2-1	3.8	4.3	2.6	2.6	3.3	MR
42	V406 -2 Ä-1-1 -1-1-1-Ä-1-1	4.0	3.7	2.6	3.0	3.3	MR
43	V338 -1Ä-1-1-1 -1-Ä-1-1	2.9	2.0	2.7	2.3	2.5	R
44	V338 -1Ä-1-1-1 -1-Ä-2-1	3.2	4.2	2.1	3.0	3.1	MR
45	PFSR (Y)-C1-A- 3Ä-1-2-1-2-1-Ä-1-1	4.6	4.0	2.3	2.9	3.5	MR
46	PFSR (Y)-C0-3Ä-1-2-1-Ä-1-1	4.5	4.6	2.5	3.1	3.7	MR
47	PFSR (Y)-C0-3Ä-1-2-1-Ä-1-2	4.5	6.4	2.5	2.6	4.0	MR
48	PFSR (Y)-C0-3Ä-1-2-1-Ä-2-1	5.4	4.5	3.0	3.0	4.0	MR
49	Indimyt-100-2Ä-1-2-2-1-Ä-1-1	5.0	2.2	3.1	3.6	3.5	MR
50	Indimyt-100-2Ä-1-2-2-1-Ä-2-1	5.4	4.6	3.7	3.8	4.4	MR
51	CM 142-1-1-1-Ä-1-1	5.0	5.0	1.5	2.2	3.4	MR
52	CM 142-1-2-1-Ä-1 -1	4.4	4.0	3.0	2.4	3.5	MR
53	CM 141-1-2-1-Ä-2 -1	4.2	5.2	2.6	2.4	3.6	MR
54	CM 202-2-1-1-Ä-1-1	2.2	3.7	5.3	2.8	3.5	MR
55	CM 111-1-1-1-Ä-1-1	6.0	8.0	3.4	2.3	4.9	MR
56	CML 297-1-2 -Ä-1-1 (set one)	4.3	5.7	4.6	2.5	4.3	MR
57	CML 3-1-1-1 -Ä-1-1	5.2	5.5	3.7	2.8	4.3	MR
58	CML 27-1-1-1-Ä-1-1	3.5	4.4	2.2	2.4	3.1	MR

Contd.

Table-21

		PFSR (1-9)					
S.No	Genotype	HYDE	LUDH	UDAI	DELH	Av. Score	Reaction
59	CML 27-1-2-1-Ä-1-1	5.8	4.0	3.0	2.3	3.8	MR
60	CML 389-1-1-1-Ä-1-1	4.0	5.2	3.9	2.5	3.9	MR
61	CML 389-1-2-1 (White grain) -Ä-1-1	NG	5.5	4.0	2.3	3.9	MR
62	CML 163-1-1-Ä-2-1	4.3	4.2	3.3	4.2	4.0	MR
63	North east 3-1 (N)-1-1-Ä-1-1	NG	4.8	2.5	3.3	3.5	MR
64	North east 3-1 (N)-1-2-Ä-1-1	7.3	4.6	1.5	3.1	4.1	MR
65	North east 4-1 (N)-1-Ä-1-1	3.2	4.6	3.4	2.7	3.5	MR
66	North east 4-1 (N)-2-Ä-1-1	5.7	5.3	4.6	2.5	4.5	MR
67	Indimyt-145 Ä-1-1-1-1-Ä-1-1	5.5	7.0	2.6	2.6	4.4	MR
68	HEY Pool (Extra Early) Ä-1-1-1-Ä-2-1	4.0	6.5	3.4	2.5	4.1	MR
69	PFSR (Y)-C1-A-B1 White heart S.G. Ä-2-1-1-2-1-1	2.7	7.7	2.6	2.4	3.8	MR
70	PFSR (Y)-C1-B Ä-3-2-1-2-1-1	5.5	6.2	3.1	2.4	4.3	MR
71	Indimyt-100 Ä-1-2-1-2-1-1	4.0	5.5	2.5	2.6	3.7	MR
72	PFSR (Y)-C0 Ä-1-2-Ä-1-1	6.2	5.0	2.3	4.5	4.5	MR
73	PFSR (White) Ä-1-2-Ä-1-1	5.2	6.4	3.7	2.2	4.4	MR
74	Cream Yellow (P) -1-Ä-1-1	4.3	6.0	1.2	2.4	3.5	MR
75	Cream Yellow (P) -1-Ä-2-1	6.3	4.2	3.0	2.9	4.1	MR
76	Deep Orange S-1(1-Y Cob S3)-2-Ä-2-1	5.7	5.0	3.8	2.1	4.1	MR
77	Deep Orange S-1(1-Y Cob S3)-3-Ä-2-2	5.8	6.0	3.9	NG	5.2	MS
78	pale yellow grains -2-Ä-1-1	4.1	5.0	2.2	2.3	3.4	MR
79	(6-Mixture purple)-1-Ä-1-1	5.8	5.7	3.8	2.5	4.5	MR
80	(6-Mixture purple)-2-Ä-1-1	5.5	5.7	2.7	2.4	4.1	MR
81	Yellow grains -1-Ä-2-1	3.0	4.0	2.4	2.4	3.0	R
82	Yellow -1-Ä-1-1	4.6	4.0	3.3	2.5	3.6	MR
83	Yellow -1-Ä-2-1	6.0	5.7	3.0	3.2	4.5	MR
84	Yellow White mixture -2 -Ä-1-1	5.2	5.2	3.7	2.4	4.1	MR
85	161084-A	4.0	7.0	-	-	5.5	MS
86	Res. Check	-	-	2.5	-	2.5	MR
87	Sus. Check	6.9	7.2	8.0	3.3	6.4	MS
88	Local Check	-	8.5	-	-	8.5	S

Resistant Check:- PFSR :- DHM 117 **(UDAIPUR)**

Susceptible Check:- PFSR :- BML 6 **(HYDERABAD);** CM 600 **(LUDHIANA)**

Table 22. Screening of maize inbred lines against TLB at Mandya

S. No	Pedigree	TLB (1-9)	S. No	Pedigree	TLB (1-9)
1	NAI - 102 XMA- K-2015	5.0	38	NAI-204 X MA-K-2015	5.0
2	NAI - 109 X MA-K-2015	5.0	39	NAI-207 # MA-K-2015	3.0
3	NAI - 113 X MA-K-2015	5.0	40	NAI-208 X MA-K-2015	5.0
4	NAI - 117 X MA-K-2015	5.0	41	NAI-209 X MA- K-2015	4.0
5	NAI - 123 X MA- K-2015	5.0	42	NAI-212 # MA- K-2015	8.0
6	NAI - 124 X MA-K-2015	6.0	43	NAI-214 # MA-K-2015	5.0
7	CHKK - 124 X MA-K-2015	7.0	44	NAI-215 # MA-K-2015	7.0
8	NAI -138 X MA-K-2015	3.0	45	NAI-217 # MA-K-2015	8.0
9	NAI-139 X MA-K-2015	5.0	46	NAI-218-10 # MA- K-2015	5.0
10	NAI-142 # MA-K-2015	4.0	47	NAI-219-4 X MA- K-2015	7.0
11	NAI-143 X MA-K-2015	6.0	48	NAI-221-7 X MA-K-2015	7.0
12	NAI-147 X MA-K-2015	4.0	49	NAI-222-4 X MA- K-2015	7.0
13	NAI-158 X MA- K-2015	5.0	50	NAI-224-6 X MA-K-2015	4.0
14	NAI-162 X MA-K-2015	5.0	51	NAI-225-3 X MA-K-2015	8.0
15	NAI-167 # MA-K-2015	7.0	52	NAI-226 X MA-K-2015	5.0
16	NAI-169 # MA-K-2015	6.0	53	NAI-227 X MA-K-2015	5.0
17	NAI-170 X MA-K-2015	4.0	54	NAI-228 X MA-K-2015	8.0
18	NAI-171 # MA-K-2015	7.0	55	MAI-105 X MA- K-2015	5.0
19	NAI-173 X MA-K-2015	6.0	56	MAI-110 X MA-K-2015	5.0
20	NAI-174 X MA-K-2015	5.0	57	KUI-11411 # MA-K-2015	5.0
21	NAI-175 X MA-K-2015	4.0	58	KUI-1141-A X MA-K-2015	5.0
22	NAI-176 # MA-K-2015	5.0	59	CM-119 # MA- K-2015	5.0
23	NAI-177 # MA-K-2015	7.0	60	CM-118 X MA-K-2015	6.0
24	NAI-178 # MA-K-2015	5.0	61	CM-122 X MA-K-2015	5.0
25	NAI-180 # MA-K-2015	5.0	62	CM-123 # MA- K-2015	7.0
26	NAI-181 # MA-K-2015	5.0	63	CM-131 # MA-K-2015	8.0
27	NAI-180 -1# MA-K-2015	4.0	64	CM-139 # MA-K-2015	8.0
28	NAI-181-1 # MA-K-2015	6.0	65	CM-142 X MA-K-2015	8.0
29	CM-137 # MA-K-2015	7.0	66	CM-205	8.5
30	SHD-IER-6 X MA-K-2015	7.5	67	NAB(X)-2 X MA-K-2015	8.0
31	NAI-188 X MA-K-2015	6.0	68	WINPOP-21 X MA- K-2015	8.0
32	NAI-190 # MA-K-2015	7.0	69	WINPOP-26 X MA-K-2015	7.0
33	NAI-191 X MA- K-2015	6.0	70	WINPOP-45 X MA- K-2015	8.0
34	NAI-193 X MA-K-2015	8.0	71	WINPOP-47 X MA- K-2015	8.5
35	NAI-194 # MA-K-2015	8.0	72	POP-61CI-QPM-TEXE X	6.0
36	NAI-197 X MA-K-2015	3.0	73	POP-446CI X MA- K-2015	6.0
37	NAI-199 X MA-K-2015	7.0	74	DMSC-8 X MA-K-2015	8.0

Contd.

S. No	Pedigree	TLB (1-9)	S. No	Pedigree	TLB (1-9)
75	DMSC-14 # MA-K-2015	7.0	98	HKI-193-1 X MA- K-2015	5.0
76	DMSC-15 X MA-K-2015	8.0	99	HKI-209 X MA- K-2015	8.0
77	DMSC-18 X MA-K-2015	8.5	100	HKI-PC-413 X MA-K-2015	8.0
78	DMSC-19 X MA- K-2015	8.0	101	HKI-488 X MA-K-2015	5.0
79	DMSC-20 X MA-K-2015	7.0	102	HKI-1040-5 X MA- K-2015	5.0
80	DMSC-24 X MA-K-2015	8.0	103	HKI-1344 X MA- K-2015	3.0
81	DMSC-28 X MA-K-2015	8.0	104	HKI-5072-BJ X MA-K-2015	8.0
82	DMSC-36 X MA-K-2015	8.5	105	POOL-16 # MA-K-2015	5.0
83	JCX-2-7-1 X MA-K-2015	7.0	106	DM-HOC-1 # MA-K-2015	4.0
84	U-139 X MA-K-2015	5.0	107	DM-HOC-15 X MA- K-2015	8.0
85	U-488 X MA-K-2015	5.0	108	CLQ-RC X MA-K-2015	8.0
86	U-536 X MA-K-2015	4.0	109	CLQ-PCY # MA-K-2015	8.0
87	CML-300 X MA-K-2015	9.0	110	V-351 X MA-K-2015	8.0
88	CML-360 X MA-K-2015	5.0	111	DMR-QPM-58 X MA-K-2015	9.0
89	CML-363 X MA-K-2015	8.0	112	AQO-3134-B-B X MA-K-2015	7.0
90	CHKK-124 # MA-K-2015	6.0	113	HP-36-4 X MA-K-2015	4.0
91	CML-410 X MA-K-2015	3.0	114	HP-35 X MA-K-2015	7.0
92	CML-413 X MA-K-2015	8.0	115	WEP-1 X MA-K-2015	8.0
93	CML-480 # MA-K-2015	8.0	116	WEP-6 X MA- K-2015	7.0
94	CML-481 # MA-K-2015	8.0	117	LM-5 X MA- K-2015	7.0
95	HKI-PC-5 X MA-K-2015	9.0	118	ENI-1 X MA-K-2015	8.0
96	HKI-PC-7 # MA-K-2015	8.0	119	POBLAC-616 X MA-K-2015	5.0
97	HKI-164 X MA-K-2015	7.0	**RC**	**NAH 2049**	**2.0**
			SC	**CM 202**	**7.0**

Table 23. Screening of maize inbred lines against maize cyst nematode, *Heterodera zeae* at Udaipur

S. No.	Name of Inbred/varieties/ lines	Range of cyst/ plant (n=5)	Reaction	Vegetative Performance
1	EIQ – 104	10--16	S	P
2	EIQ – 102	13--22	S	P
3	EIQ – 103	23--32	S	P
4	EIQ – 101	20--26	S	P
5	EI – 1290 – 1	12--18	S	P
6	EI – 1125	15--22	S	P
7	EI – 1212	13--19	S	P
8	EI – 1159	18--26	S	M
9	EI – 1105--2	8--14	S	M
10	EI – 1270--2	11--16	S	P
11	EI – 1103	20--29	S	P
12	EI – 586--3 RCH	14--22	S	P
13	EI – 1110--2	12--18	S	M
14	EI—1157	9--16	S	P
15	EI – 1104 – 1	8--16	S	M
16	EI – 670 – 2	13--22	S	**G**
17	DMR QPM--106	17--25	S	M
18	HKI – 193 – 1	20--28	S	M
19	BML – 6	7--16	S	M
20	Pratap Makka – 9	4--9	**MR**	**G**
21	Pratap Hybrid Maize -- 3	2--6	**MR**	**G**
22	EH ----2906	3--8	**MR**	**G**
23	EIQ--2171(Q)	21--30	S	P
24	EIQ--171	**---- Not Germinated ----**		
25	EIQ--175	10--18	S	M
26	EIQ --240	7--15	S	M
27	EI-- 2403	14--21	S	P
28	EI-- 2424	20--28	S	P
29	EI – 2401	14--24	S	P
30	EI -- 2423	16--22	S	P
31	EI --2177	12--17	S	M
32	Pratap QPM Hybrid--1	3--9	**MR**	**G**
33	EHQ--64	2--7	**MR**	**G**
34	EHQ--63	11--18	S	**G**
35	Pratap Makka--3	24--32	S	M

Table 24. Screening of promising genotypes/hybrids against BLSB at Ludhiana

S. No	Inbred	BLSB (1-9)	Reaction	S. No	Hybrid	BLSB (1-9)	Reaction
1.	DQL 2015	7.0	MS	1.	PMH 4	6.5	MS
2.	DQL 2111	5.5	MS	2.	PMH 1	5.5	MS
3.	DQL 2051	4.0	MR	3.	PMH 5	6.0	MS
4.	LM 11	6.5	MS	4.	Buland	6.5	MS
5.	LM 12	4.5	MR	5.	PMH 3	5.4	MS
6.	LM 13	5.5	MS	6.	JH 3459	5.0	MR
7.	LMDR1	3.5	MR		*Susceptible check: CM 600	6.5	MS
8.	CM 123	5.0	MR				
9.	CM 501	6.5	MS				

Table 25. Performance of the previous year's resistant station inbred lines against TLB at Mandya

S. No.	Inbred lines	TLB Disease score (1-9 scale)			Mean
		2014	2015	2016	
1	NAI -137	3.0	4.0	4.0	**3.7**
2	NAI -138	3.0	4.0	5.0	**4.0**
3	NAI -142	3.0	5.0	5.0	**4.3**
4	NAI -175	3.0	3.0	5.0	**3.7**
5	NAI -207	3.0	5.0	4.0	**4.0**
6	NAI -209	3.0	4.0	3.0	**3.3**
7	KUI- 1411	3.0	4.0	4.0	**3.7**
8	KUI-1411a	3.0	3.0	5.0	**3.7**
9	CML- 248	3.0	4.0	4.0	**3.7**
10	CML- 360	3.0	5.0	5.0	**4.3**
RC	**NAH 2049**				**2.0**
SC	**CM 202**				**7.0**

Table 26. Performance of previous years' resistant station inbred lines against SDM at Mandya

S. No.	Entry No.	SDM (%)				Mean
		2013-14	2014-15	2015-16	2016-17	
1	MAI 1	04.88	05.26	03.30	04.48	04.48
2	MAI 2	12.50	09.09	03.66	05.00	07.56
3	MAI 7	10.00	11.11	03.85	06.30	07.82
4	MAI 8	03.12	09.52	02.33	06.30	05.32
5	MAI 11	03.70	10.53	02.63	05.62	05.62
6	MAI 12	02.38	09.09	11.69	07.72	07.72
7	MAI 13	02.50	11.11	06.11	10.00	07.43
8	MAI 16	08.95	10.53	11.94	15.00	11.61
9	MAI 19	06.90	11.76	04.20	11.80	08.67
10	MAI 20	02.70	10.00	08.69	07.13	07.13
11	MAI 21	06.80	10.00	10.01	19.60	11.60
RC	**NAH 1137**		**14.29**	**SC**	**CM 500**	**100.00**

Table 27. Assessment of avoidable yield losses due to MLB at Dhaulkuan

Replication	Treatment	Disease score	PDI*	Yield (q/ha)	Yield loss (%)
R1	Protected	1.0	22.22	59.00	12.03
	Unprotected	2.0	33.33	52.67	
R2	Protected	2.0	27.78	58.33	15.28
	Unprotected	3.0	33.33	50.60	
R3	Protected	1.0	11.11	57.67	14.95
	Unprotected	3.0	27.78	50.17	
R4	Protected	1.0	16.67	58.50	11.64
	Unprotected	3.0	33.33	52.40	
R5	Protected	2.0	22.22	59.50	12.97
	Unprotected	4.0	50.00	52.67	
R6	Protected	2.0	33.33	57.00	11.76
	Unprotected	4.0	44.44	51.00	
R7	Protected	1.0	22.22	56.67	16.04
	Unprotected	4.0	33.33	48.83	
R8	Protected	2.0	22.22	55.50	9.90
	Unprotected	4.0	27.78	50.50	
R9	Protected	2.0	33.33	58.00	17.57
	Unprotected	4.0	45.56	49.33	
R10	Protected	1.0	11.11	59.67	11.89
	Unprotected	4.0	44.44	53.33	
Mean	Protected	1.5	27.77 (22.22)	57.98	
	Unprotected	3.5	37.55 (37.33)	51.15	
Disease control (%)					68.00
Avoidable yield losses (%)					13.40
CD (5%)					4.29
CV (%)					13.00

*** Transformed values in parenthesis**

Table 28. Assessment of avoidable yield losses due to TLB at Bajaura

Replication	Treatment	Disease score	PDI	Yield (q/ha)	Yield loss (%)
R1	Protected	4.0	44.4	42.6	13.5
	Unprotected	6.5	72.2	36.9	
R2	Protected	3.8	42.2	40.3	15.5
	Unprotected	6.2	68.9	34.1	
R3	Protected	3.8	42.2	47.5	10.4
	Unprotected	6.1	67.8	42.6	
R4	Protected	3.5	38.9	55.5	10.4
	Unprotected	6.0	66.7	49.8	
R5	Protected	4.1	45.6	45.2	12.4
	Unprotected	6.5	72.2	39.6	
R6	Protected	3.6	40.0	53.2	6.4
	Unprotected	6.6	73.3	49.8	
R7	Protected	3.8	42.2	45.9	4.4
	Unprotected	6.5	72.2	43.8	
R8	Protected	3.9	43.3	46.0	9.5
	Unprotected	6.9	76.7	41.6	
R9	Protected	3.5	38.9	45.1	1.0
	Unprotected	6.3	70.0	44.7	
R10	Protected	3.9	43.3	25.0	24.6
	Unprotected	6.7	74.4	18.9	
Mean	Protected	3.8	42.1	44.6	
	Unprotected	6.4	71.4	40.2	
Disease control (%)					41.0
Avoidable yield losses (%)					10.8

- In protected plot, Dithane M-45@ 0.25% was sprayed two times at 3 DAI and 15 DAI. The crop was inoculated once with TLB at 30 DAS.
- In non-protected plot, plain water was sprayed after inoculation of the plants with pathogen.
- 10.8 % yield loss was recorded due to TLB disease

Table 29. Assessment of avoidable yield losses due to TLB at Dharwad

Replication	Treatment	Disease score	PDI	Yield (q/ha)	Yield loss (%)
R1	Protected	4.0	40.52	61.85	20.85
	Unprotected	8.0	80.66	48.95	
R2	Protected	3.0	33.80	63.68	18.22
	Unprotected	8.0	80.50	52.07	
R3	Protected	4.0	38.60	61.25	19.90
	Unprotected	8.0	86..66	49.06	
R4	Protected	4.0	35.40	61.51	18.89
	Unprotected	7.0	76.50	49.89	
R5	Protected	3.0	33.00	65.32	21.81
	Unprotected	7.0	76.25	51.07	
R6	Protected	4.0	42.60	61.56	20.37
	Unprotected	9.0	76.70	49.01	
R7	Protected	4.0	44.80	64.51	19.24
	Unprotected	9.0	87.40	52.09	
R8	Protected	4.0	38.90	60.67	19.14
	Unprotected	9.0	79.30	49.06	
R9	Protected	3.0	32.80	63.19	19.64
	Unprotected	8.0	79.50	50.77	
Avoidable yield losses (%)					19.78

The Protected plots were sprayed with Tebuconazole 250EC @ 0.1% at 35 and 45 days after sowing. The avoidable yield loss due to TLB was estimated to the tune of 19.78 per cent.

Table 30.Assessment of avoidable yield losses due to TLB at Mandya

Replication	Treatment	Disease score	PDI	Yield (q/ha)	Yield loss (%)
R1	Protected	2.0	22.30	32.32	86.62
	Unprotected	7.0	81.32	4.33	
R2	Protected	1.0	15.83	38.32	90.00
	Unprotected	7.0	81.51	3.82	
R3	Protected	1.0	18.63	33.28	78.33
	Unprotected	7.0	78.32	7.21	
R4	Protected	1.0	15.61	37.38	77.76
	Unprotected	6.0	72.56	8.31	
R5	Protected	2.0	23.31	31.24	89.72
	Unprotected	8.0	90.62	3.21	
R6	Protected	1.0	18.12	32.58	89.47
	Unprotected	7.0	84.32	3.44	
R7	Protected	1.0	15.31	36.83	89.60
	Unprotected	8.0	89.32	3.84	
R8	Protected	1.0	14.86	39.28	89.00
	Unprotected	6.0	75.32	4.32	
R9	Protected	1.0	12.36	41.24	94.30
	Unprotected	8.0	91.32	2.35	
Mean	Protected		16.93	35.83	
	Unprotected		82.51	4.54	
Avoidable yield losses (%)					**87.20**
T Stat			32.62	23.15	
Table t Value			2.12	2.12	

Protected: In protected plot, Dithane M 45 was sprayed two times at 15 days interval, one at 30 DAS and another at 45 DAS

Table 31. Assessment of avoidable yield losses due to SDM at Mandya

Replication	Treatment	Disease incidence (%)	Yield (q/ha)	Yield loss (%)
R1	Protected	5.45	47.78	86.39
	Unprotected	79.82	6.50	
R2	Protected	6.4	46.24	88.10
	Unprotected	81.12	5.50	
R3	Protected	4.83	48.21	87.14
	Unprotected	78.52	6.20	
R4	Protected	7.56	47.61	88.04
	Unprotected	84.21	5.70	
R5	Protected	8.24	45.58	87.54
	Unprotected	82.13	5.68	
R6	Protected	6.89	46.89	88.44
	Unprotected	80.54	5.42	
R7	Protected	8.12	46.26	88.31
	Unprotected	80.42	5.41	
R8	Protected	5.13	47.66	87.34
	Unprotected	82.1	6.03	
R9	Protected	6.36	46.93	89.57
	Unprotected	81.45	4.89	
Mean	Protected	6.55	47.02	
	Unprotected	81.15	5.70	
Avoidable yield loss				**87.87**
T Stat		109.18	124.95	
Table t Value		2.12*	2.12	

Protected: Seed treatment with Metalaxyl + Mancozeb @ 2.5 gms/kg of seeds

Table 32. Assessment of avoidable yield losses due to RDM at Udaipur

Replication	Treatment	Disease incidence (%)	Yield (gm/2 rows)	Yield loss (%)
R-1	Protected	14.5	920	45.11
	Unprotected	39.0	505	
R-2	Protected	10.0	980	52.04
	Unprotected	32.0	470	
R-3	Protected	17.0	1020	40.69
	Unprotected	36.0	605	
R-4	Protected	18.0	830	34.34
	Unprotected	24.0	545	
R-5	Protected	15.0	1015	48.77
	Unprotected	39.0	520	
R-6	Protected	10.0	980	52.04
	Unprotected	25.0	470	
R-7	Protected	16.0	1210	54.96
	Unprotected	52.0	545	
R-8	Protected	27.0	830	50.60
	Unprotected	47.0	410	
R-9	Protected	25.0	960	52.60
	Unprotected	58.0	455	
R-10	Protected	20.0	895	48.04
	Unprotected	48.0	465	
R-11	Protected	17.0	878	50.46
	Unprotected	42.0	435	
R-12	Protected	12.0	990	43.94
	Unprotected	33.5	555	
R-13	Protected	19.0	1075	41.86
	Unprotected	36.0	625	
R-14	Protected	23.0	1190	54.62
	Unprotected	60.0	540	
R-15	Protected	34.0	1140	48.68
	Unprotected	72.0	585	
	Protected		**994.20**	
Mean	**Unprotected**		**515.33**	
Avoidable yield losses (%)				**79.86**

Table 33. Assessment of avoidable yield losses due to maize cyst nematode at Udaipur

Name of varieties	Nematode Population						Grain Yield	
	Cyst / 5 g root	Per cent reduction over check	Cyst/ 100 cc soil	Per cent reduction over check	Nematode larvae/100 cc soil	Per cent reduction over check	q/ha	Per cent increase over check
Pratap Hybrid Maize --3	3.88 (0--8)	**89.41**	7.75 (4--12)	**73.04**	540.00 (350--820)	**70.53**	42.95 (39.00--45.32)	**72.21**
Pratap Makka--9	7.50 (2--14)	**79.52**	11.63 (5--17)	**59.55**	823.75 (360--1200)	**55.05**	36.69 (33.00--40.67)	**47.11**
Pratap Makka--3 (Check)	36.63 (31--43)	------	28.75 (24--35)	------	1832.50 (1550--2200)	------	24.94 (23.12--28.23)	------

Initial Nematode Population : 770 larvae/100 cc soil **Date of sowing : 07.07.2016**
Soil type : Clay loam **Plot size : 5.00 sq. m**
Replication : 8
Date of observation : 13.10.2016 **Date of harvesting : 24.10.2016**

Table 34. Maize diseases in trap nursery trial

S. No	Genotype	Maydis leaf blight(1-9)										
		BAJA	PANT	KALY	DHAR	DHAU	DELH	DHOL	LUDH	UDAI	KARN	MAND
1	CM129	3.0	-	1.0	3.0	1.0	1.0	7.0	2.0	3.5	7.0	5.0
2	CM202	6.0	-	1.0	4.0	3.0	2.0	5.0	2.5	4.0	7.0	5.0
3	CM119	2.0	-	1.5	7.0	2.0	NG	8.0	2.0	3.5	NG	-
4	ITNA004	2.0	-	1.0	7.5	3.0	3.0	3.0	1.5	3.0	6.0	-
5	CM111	-	-	1.0	3.0	2.0	4.0	7.0	2.0	2.5	4.0	-
6	CM500	4.0	-	1.0	6.0	4.0	2.0	8.0	3.0	2.0	7.0	-
7	CM115	2.0	-	1.0	6.0	1.0	2.0	7.0	2.0	2.5	NG	-
8	CM501	2.0	-	3.5	5.0	2.0	2.0	6.0	2.0	2.0	4.0	-
9	Indimyt-100-2-1-1-2-1-1	2.0	M	4.3	6.0	4.0	6.0	8.0	2.5	2.0	4.0	-
10	CM105	3.0	-	4.5	5.0	2.0	4.0	5.0	2.0	1.5	5.0	3.5
11	CM123	4.0	M	4.0	3.0	0.0	4.0	7.0	2.0	3.0	7.0	-
12	CM128	3.0	-	2.8	3.0	3.0	5.0	5.0	NG	3.5	NG	-
13	CM149	2.0	M	5.8	2.0	1.0	2.0	8.0	1.5	4.0	7.0	3.5
14	BML6	7.0	-	1.0	4.0	3.0	1.0	5.0	2.0	4.5	6.0	-
15	Res. Check	-	-	-	2.0	-	-	-	-	-	-	-
16	Sus. Check	-	-	-	4.0	-	-	-	-	-	-	-

Contd.

S. No	Genotype	Turcicum leaf blight (1-9)							Anthra*
		BAJA	COIM	KALY	ALMO	DHAR	MAND	KARN	PANT
1	CM129	8.0	0.0	2.3	8.0	4.5	7.0	2.0	-
2	CM202	6.0	3.0	1.0	7.0	9.0	8.0	4.0	-
3	CM119	2.0	0.0	1.0	5.0	2.0	6.0	NG	-
4	ITNA004	2.0	0.0	1.3	7.0	7.0	5.0	3.0	-
5	CM111	-	0.0	2.8	1.0	3.0	3.0	3.0	-
6	CM500	3.0	0.0	1.3	6.0	4.5	4.0	4.0	-
7	CM115	5.0	0.0	2.0	5.0	8.0	3.0	NG	-
8	CM501	2.0	0.0	3.0	5.0	4.0	3.0	4.0	-
9	Indimyt-100-2-1-1-2-1-1	2.0	0.0	1.3	5.0	4.5	5.0	3.0	L
10	CM105	3.0	0.0	1.0	5.0	8.0	4.0	3.0	-
11	CM123	9.0	0.0	1.5	7.0	8.0	6.0	4.0	L
12	CM128	2.0	-	2.3	5.0	7.0	3.0	NG	-
13	CM149	2.0	0.0	1.3	5.0	7.0	3.0	5.0	M
14	BML6	8.0	0.0	2.5	5.0	9.0	5.0	3.0	-
15	Res. Check	-	-	-	-	3.0	2.0	-	-
16	Sus. Check	-	-	-	-	9.0	7.0	-	-

Contd.

***Anthracnose**

S. No.	Genotype	Banded leaf and sheath blight (1-9)					BSDM	BLS (1-5)	BSR (%)	
		PANT	DHAU	LUDH	UDAI	KANR	UDAI	LUDH	PANT	LUDH
1	CM129	-	4.0	1.5	0.0	4.0	0.0	0.0	-	0.0
2	CM202	-	4.0	0.0	0.0	5.0	0.0	0.0	-	0.0
3	CM119	-	4.0	0.0	0.0	NG	0.0	0.0	-	0.0
4	ITNA004	-	3.0	0.0	0.0	6.0	0.0	2.0	-	0.0
5	CM111	-	4.0	0.0	0.0	4.0	0.0	0.0	-	0.0
6	CM500	-	3.0	0.0	0.0	5.0	0.0	0.0	-	0.0
7	CM115	-	3.0	0.0	0.0	NG	0.0	0.0	-	0.0
8	CM501	-	3.0	0.0	0.0	6.0	0.0	0.0	-	5.5
9	Indimyt-100-2-1-1-2-1-1	H	0.0	0.0	0.0	5.0	0.0	2.0		5.0
10	CM105	-	0.0	0.0	0.0	4.0	0.0	0.0	-	4.0
11	CM123	M	3.0	1.5	0.0	4.0	0.0	0.0	-	5.5
12	CM128	-	2.0	NG	0.0	NG	0.0	NG	-	NG
13	CM149	M	4.0	2.5	0.0	3.0	0.0	0.0	-	0.0
14	BML6	-	2.0	3.0	0.0	5.0	0.0	0.0	-	0.0

Contd.

S. No.	Genotype	C.RUST (1-9)	Curvularia leaf spot(1-9)						Plant Stand	BS	Remarks
		DHAR	BAJA	DHAR	PANT	DHAU	MAND	UDAI	PANT	UADI	DHAR*
1	CM129	8.0	5.0	6.0	-	2.0	-	2.0	-	1.0	-
2	CM202	7.0	3.0	3.0	-	3.0	6.0	2.5	-	1.5	-
3	CM119	6.0	-	5.5	-	3.0	-	2.0	-	1.5	-
4	ITNA004	7.0	-	2.0	-	1.0	-	1.5	-	1.0	-
5	CM111	4.5	5.0	2.0	-	4.0	-	2.0	-	1.5	-
6	CM500	2.0	-	4.5	-	3.0	-	1.5	-	1.5	P.G.
7	CM115	7.0	2.0	5.0	-	1.0	-	1.5	-	1.0	-
8	CM501	2.0	5.0	8.0	-	0.0	-	1.5	-	1.0	-
9	Indimyt-100-2-1-1-2-1-1	8.0	-	7.0	M	3.0	-	2.5	3.0	1.0	P.G.
10	CM105	2.0	3.0	4.5	-	2.0	-	2.5	-	1.0	-
11	CM123	8.0	2.0	5.0	M	0.0	-	1.5	1.0	1.5	-
12	CM128	7.0	3.0	8.0	-	2.0	-	2.5	-	1.0	-
13	CM149	2.0	2.0	5.0	M	3.0	-	2.0	4.0	0.0	-
14	BML6	7.0	5.0	5.0	-	3.0	-	2.5	-	1.5	-
15	Res. Check	3.0	-	2.0	-	-	-	-	-	-	-
16	Sus. Check	7.0	-	3.0	-	-	-	-	-	-	-

***P.G. Poor germination BS – Brown Spot** **Contd.**

S. No.	Genotype	FSR (1-9)		PFSR (1-9)		PFSR (%)	SDM (%)		MSR*	C. rust	RDM (%)
		UDAI	MAND	LUDH	HYDE	DELH	COIM	MAND	MAND	UDAI	UDAI
1	CM129	2.5	-	5.7	6.0	50.0	0.0	-	-	L	0.0
2	CM202	2.1	-	5.5	5.0	60.0	50.0	-	-	L	8.0
3	CM119	1.8	-	4..0	3.0	NG	0.0	-	-	L	10.0
4	ITNA004	3.5	-	3.7	5.8	80.0	33.3	-	4.0	L	12.0
5	CM111	4.5	-	3.7	4.0	25.0	0.0	-	-	L	4.0
6	CM500	3.0	-	6.8	3.8	25.0	62.5	-	-	L	7.0
7	CM115	2.8	2.0	6.7	NG	50.0	20.0	70.0	-	L	9.0
8	CM501	6.2	-	7.0	4.6	75.0	0.0	-	-	L	13.0
9	Indimyt-100-2-1-1-2-1-1	2.8	-	6.0	5.0	66.6	14.3	-	-	L	0.0
10	CM105	2.1	-	3.5	6.3	71.4	55.6	-	-	L	11.0
11	CM123	1.8	-	3.5	4.5	9.1	80.0	-	-	L	12.0
12	CM128	1.5	-	NG	NG	71.4	NG	-	-	L	6.0
13	CM149	3.0	-	3.2	4.5	25.6	10.0	-	-	L	5.0
14	BML6	4.6	-	6.0	5.5	80.0	-	-	-	L	16.0

MSR:- Macrophomina Stalk rot

Contd.

Table 35. Survey and surveillance of maize diseases in Himachal Pradesh (Bajaura)

District/ Disease	Turcicum Leaf Blight	Banded Leaf and Sheath Blight	Maydis Leaf Blight	Brown Spot	Curvularia Leaf Spot
Mandi	Moderate	High	Moderate	Moderate	Low
Kullu	Moderate	Moderate	Low to Moderate	Low	Low
Bilaspur	Moderate	Moderate to High	Moderate to High	Moderate	Low

Systematic surveys were conducted under survey and surveillance programme in maize growing areas of Mandi, Kullu and Bilaspur district of Himachal Pradesh during *Kharif*, 2016. The most common diseases of these areas were Turcicum Leaf Blight (TLB), Banded leaf and sheath blight (BLSB) and Maydis leaf blight. Brown spot and curvularia leaf spot diseases of maize were of minor importance.

Table 36 Survey and surveillance of maize diseases in Himachal Pradesh (Dhaulakuan)

Weekly Status of Maize Pests/Diseases was sent during the season.

S. No	Cereal crops	Crop Stage	State/Distt.	Pest/ disease	Intensity*
1.	Maize	Dough	Himachal/Sirmour	MLB	M-H
2.			-DO-	BLSB	M-H
3.			-DO-	Curvularia leaf spot	M
4.				ESR	M-H

Disease intensity: T - Traces; L - Low; M - Medium; H – High

Beside this local survey of maize growing areas Poanta valley was done during the season. The incidence of various maize diseases varies from place to place and variety to variety. The incidence of the various maize diseases in Poanta valley was as follows

S. No	VILLAGE	BLSB	CLS	BS	BSR	TLB	MLB
1.	Rampur	M-H	L	T	L-M	L	L
2.	Khamba nagar	M-H	T	T	L-M	-	M
3.	Parduni	H	L	-	L-M	-	M
4.	Kotli	L	L	-	L	-	L
5.	Gulab garh	H	M	T	M	-	M
6.	Toka	M	-	-	M	-	M
7.	Bakuan	M	L	L	L	-	M
8.	Bhatarhan	-	M	L	L	L	M
9.	Surajpur	M	-	-	-	-	-
10.	Johro	M	L	L	L	-	M
11.	Ftehpur	L	L	-	L	-	-
12.	Sainwala	H	L	L	M	-	H
13.	Shivpur	M	M	L	M	-	M
14.	Nihalgarh	H	L	L	M	-	H

Table 37. Survey and surveillance of maize diseases in Gujarat

Season : *Kharif* 2016 **State** : Gujarat **Zone** : III **Centre** : Godhra

S. No.	Locations	Date	No. of field surveyed	Grain filling stage	Foliar diseases (Disease Score and Intensity)								Date of disease appearance (MMRS, Godhra)	Period of rapid spread (MMRS, Godhra)
					MLB (1-9)	MLB (PDI)	TLB (1-9)	TLB (PDI)	CLS (1-9)	CLS (PDI)	BLSB (1-9)	BLSB (PDI)		
1.	Godhra	05.09.16	10	Yes	4.0	44.4	3.0	33.3	4.0	44.4	4.0	44.4	**MLB :** 18.08.16 **TLB :** 20.08.16 **CLS :** 25.08.16 **BLSB :** 24.08.16	**1. MLB :** 04.09.16 to 03.10.16 **2. TLB :** 04.09.16 to 04.10.16 **3. CLS :** 04.09.16 to 04.10.16 **4. BLSB :** 09.09.16 to 09. 10.16
2.	Khanpur	07.09.16	8	Yes	4.0	44.4	4.0	44.4	4.0	44.4	4.0	44.4		
3.	Santrampur	16.09.16	12	Yes	3.0	33.3	4.0	44.4	4.0	44.4	5.0	55.5		
4.	Dahod	21.09.16	10	Yes	3.0	33.3	4.0	44.4	3.0	33.3	4.0	44.4		
5.	Garbada	25.09.16	12	Yes	1.0	11.1	3.0	33.3	4.0	44.4	4.0	44.4		
6.	Chhotaudipur	26.09.16	15	Yes	4.0	44.4	4.0	44.4	4.0	44.4	1.0	11.1		
7.	Pavijetpur	27.09.16	8	Yes	3.0	33.3	3.0	33.3	5.0	55.5	4.0	44.4		
8.	Amirgadh	27.29.16	8	Yes	4.0	44.4	1.0	11.1	4.0	44.4	4.0	44.4		
9.	Khedbrahma	01.10.16	12	Yes	4.0	44.4	3.0	33.3	4.0	44.4	4.0	44.4		
10.	Bhiloda	01.10.16	10	Yes	3.0	33.3	4.0	44.4	4.0	44.4	4.0	44.4		
11.	Virpur	01.10.16	8	Yes	3.0	33.3	3.0	33.3	3.0	33.3	4.0	44.4		
12.	Sonpur	03.10.16	12	Yes	3.0	33.3	4.0	44.4	3.0	33.3	4.0	44.4		
13.	Idar	03.10.16	15	Yes	4.0	44.4	4.0	44.4	4.0	44.4	3.0	33.3		
14.	Datta	04.10.16	14	Yes	1.0	11.1	5.0	55.5	3.0	33.3	2.0	22.2		
15.	Ambaji	04.10.16	12	Yes	3.0	33.3	4.0	44.4	4.0	44.4	3.0	33.3		
16.	Palanpur	05.10.16	10	Yes	4.0	44.4	4.0	44.4	4.0	44.4	20	22.2		
17.	Lunavada	06.10.16	10	Yes	4.0	44.4	4.0	44.4	3.0	33.3	2.0	22.2		

MLB = Maydis leaf blight TLB = Turcicum leaf blight BLSB = Banded leaf and sheath blight CLS = Curvularia leaf spot
PDI: Percent Disease Index

Maize disease survey was done in 18 locations. The details are given in Table 1. Total 214 maize fields were surveyed to take observations of intensity of MLB, TLB, CLS and BLSB diseases at grain filling stage. The highest intensity of diseases MLB, TLB, CLS and BLSB occurred at Sonpur, Datta, Pavijetpur and Ambaji whereas lowest intensity of MLB, TLB, CLS and BLSB diseases were found at Garbada, Amirgadh, Modasa and Chhotaudaipur locations. The weather data of Godhra location is enclosed herewith for further studies.

Table 38.Survey and surveillance of maize diseases in Bihar

Season : Kharif-2016 State : Bihar Zone : III Centre : Dholi

S. No.	District /place	Location	No. of fields surveyed	Crop stage	Crop variety	Foliar diseases (Score & Intensity)	
						MLB (1-9)	MLB (PDI)
1	Muzaffarpur	Bochaha	2	Grain filling stage	Hybrid	4	40
		Motipur	1			5	50
		Pikhi	3			3	30
		Mohamadpur	2			8	80
		Kanti	1			6	60
		Turaki	1			7	70
2	Samastipur	Bhagatwatpur	3			3	30
		Baghauni	2			5	50
		Ladaura	1			6	60
		Birauli	2			8	80
3	Vaisali	Proper Vaishali	2			7	70
		Dharhara	1			8	80
		Harikapur	1			6	60
		Manpura	1			7	70
4	E. Champaran	Turkauliya	1			8	80
		Pipara Kothi	2			6	60
		Kalyanpur	3			8	80
		Chakiya	1			5	80

MLB= Maydis leaf blight **TLB** = Turcicum leaf blight **BSR** = Bacterial stock rot
BLSB = Banded leaf and sheath blight **PDI** = Percent Disease Index

Table 39. Survey and surveillance of maize diseases in West Bengal

Season - Kharif-2016 Zone – 3 States - West Bengal Center - Kalyani

S.No.	Place/District	Crop Stage	Variety	Maydis Leaf Blight and intensity	Turcicum Leaf Blight (score)
1	Kalinagar / Burdwan	Silking	Hybrid	23.60 (low)	18.5 (low)
2	Samudragarh / Burdwan	Baby Corn	Hybrid	24.44 (low)	23.30 (low)
3	Nabadweep / Nadia	Soft Dough	Hybrid	44.44 (low)	38.88 (low)
4	Krishnagar / Nadia	Soft Dough	Hybrid	45.55 (low)	39.99 (low)
5	Shekhampur / Birbhum	Physiological maturity stage	Hybrid	71.10 (medium)	53.33 (low)

Table 40. Survey and surveillance of maize diseases in Northern Karnataka

State : Karnataka Centre : Dharwad Season : Kharif-2016 Zone : 4

S.No	District /Place	Area covered (ha)	No. of fields surveyed	Date of survey	Crop Stage	Variety /Hybrid	Foliar diseases severity (PDI)					Charcol stalk rot (%)
							TLB	C.Rust	CLS	MLB	Brown Spot	
1	Dharawad	30	35	Sept-Oct	Grain filling stage	Hybrid	76.8	72.6	66.5	38.6	Traces	2.83
2	Kalaghatagi	18	20	Aug-Sept	Grain filling stage	Hybrid	64.5	58.9	53.3	39.8	43.6	1.60
3	Shiggon	15	5	Sept-Oct	Grain filling stage	Hybrid	54.8	55.6	33.6	Traces	53.8	1.30
4	Bydagi	16	12	Sept-Oct	Grain filling stage	Hybrid	65.3	56.5	40.6	Traces	51.5	1.50
5	Haveri	40	28	Aug-Sept	Grain filling stage	Hybrid	66.4	66.3	63.8	Traces	49.6	2.20
6	Gokak	25	22	Aug-Sept	Grain filling stage	Hybrid	72.9	45.8	38.4	Traces	Traces	3.80
7	Bailhongal	18	23	Sept-Oct	Grain filling stage	Hybrid	65.0	59.7	45.6	Traces	Traces	1.90
8	Navalgund	10	5	Sept-Oct	Grain filling stage	Hybrid	51.8	Traces	Traces	31.5	Traces	5.60
9	Naragund	12	15	Sept-Oct	Grain filling stage	Hybrid	53.5	Traces	Traces	32.5	Traces	5.75
10	Arabhavi	14	19	Sept-Oct	Grain filling stage	Hybrid	73.6	59.3	43.7	33.2	Traces	4.30

Table 41. Survey and surveillance of maize diseases in Northern Karnataka
Centre: Dharwad. Season: Kharif-2016

S.NO	Locations	Diseases	Severity
1	Dharwad, Bilohongal, Nippani, Belagavi and Haveri, Kalgahatagi and Gokak	Turcicum leaf blight and Common Rust	Severe
2	Kalghatagi, Dharwad, Belagavi and Haveri	Curvularia leaf spot	Low to Moderate
3	Kalghatagi, Dharwad, Bagalkot	Maydis leaf blight	Low to Moderate
4	Kalaghatagi, Bydagi and Shigavo	Brown Spot	Low
5	Dharwad, Gokak, Arabhavi, Navalgund and Naragund	Charcoal stalk rot	Low to Moderate

Table 42.Surveillance and surveillance of maize diseases in Haryana (Karnal)

Maydis leaf blight (3.2- 7.2) and banded leaf and sheath blight(3.2- 6.4) were found as most important disease in Ambala, Panchkula, Yamuna nagar and karnal districts of Haryana during kharif 2016. Incidence of Curvularia leaf spot (2.0- 4.4) was also observed at farm and farmers' field. However, during rabi rust (1-2.5) disease was observed rabi 2015-16.

Table 43. Survey, surveillance of maize disease in Tamil Nadu

S.NO	District	Crop stage	Month (2016)	Disease	Intensity
1.	Pongaliyur/Coimbatore dist	Young plant	September	Sorghum downy mildew	High
2.	Kinathukadavu/ Coimbatore dist	Knee high stage	September	Nil	Nil
3.	Anthiyur/ Coimbatore dist	Knee high to flowering	July	Fusarium seedling blight	Moderate
4.	TNAU/Coimbatore	Knee high to flowering	Aug-Sept	Sorghum downy mildew	High
5.	Vadakadu and Kothakkotai/ Pudukkotai dist	Flowering stage	August	Charcoal rot	Moderate

Table 44. Survey, surveillance of maize disease in Telangana State

S.NO	District	Crop stage	Month (2016)	Disease	Intensity
1.	All the Districts	Knee high stage	June - July	Stem borer	T
2.		Flowering stage	Aug.-Sept.	Stem borer	T
				Downy mildew	T
				BLSB	T
				Wilt	T
				Cob borer	T
				Corn ear rots	T
3.		Grain formation state	October	Cob borer	T
				Curvularia leaf spot	T
				Gray leaf spot	T
4.		Seedling stage	Nov.-Dec.	Stem borer	T
				Downy mildew	T

Table 45. Survey and surveillance of maize diseases in Southern Karnataka

Season: Kharif-2016 **Zone**: IV **State**: Karnataka **Centre**: Mandya

S. No	District/place	Area covered (acre)	field surveyed	Date of survey	Crop stage	Variety / hybrid	Foliar disease severity % (PDI)					Stalk rot
							TLB	CLS	MLB	P. Rust	SDM	
1	Tumkur	20	12	Aug -sep	Knee high and Grain filling	Variety	23.5	-	-	10	-	-
2	Chitradurga	15	6	Aug – sep	Grain filling	Hybrid	20.5	-	-	-	10	Traces
3	Davangere	30	10	Aug – sep	Grain filling	Hybrid	32.5	35	15	40	15	20
4	Haveri	12	4	Aug – sep	Grain filling	Hybrid	29.5	25	30	55	45	-
5	Shimoga	32	14	Aug – sep	Grain filling	CP818	59.5	10	35	45	40	-
6	Hassan	18	16	Aug – sep	Knee high & Grain filling	Ganga cauvery	63.5	5	10	-	40	-
7	Mysore	12	6	Sep –oct	Grain filling stage	-do-	31.25	-	10	-	55	-
8	Bangalore rural	8	4	Sep –oct	Grain filling stage	Pioneer	41.75	-	-	-	10	-
9	Chikkaballapur	12	4	Sep- oct	Grain filling stage	Ganga cauvery	29.5	-	-	-	35	30
10	Mandya	22	10	Aug – sep	Grain filling stage	Hybrid	55.5	-	-	30	60	40
11	Chamarajnagra	10	6	Aug – sep	Grain filling stage	Hybrid	35.5	-	-	-	-	-
12	Kolar	14	8	Aug – sep	Grain filling stage	Hybrid	12	-	-	-	-	Traces

Note: TLB- Turcicum leaf blight, MLB- Maydis leaf blight, CLS- Curvularia leaf spot, SDM- Sorghum Downey mildew, P.Rust-Polysora rust

Survey and surveillance of maize diseases in Southern Karnataka: Extensive surveys were conducted under and surveillance programme in maize growing areas of Southern Karnataka (Tumkur, Chitradurga, Davangere, Haveri, Shimoga, Hassan, Mysore, Bangalore rural, Chikkaballapur, Mandya, Chamarajnagar and Kolar).

A survey was carried out during kharif 2016 in different parts and directions to know the prevalence of diseases and their intensity in Southern Karnataka. The information was recorded in 100 fields from 12 different places of about 195 acres coverage.

- During the survey the major diseases like Sorghum Downey mildew, TLB, MLB, CLS, P.Rust and Post Flowering Stalk rots (PFSR) were noticed.
- The was recorded with severe to moderate intesnsity in almost all the field surveyed. Maximum disease incidence noticed in Hassan district (63%) followed by shimoga (59.5%) districts.
- The incidence of SDM was found to be severe in Mandya and Mysore districts and moderate in shimoga and Haveri districts while it was very low in other districts.
- Ploysora rust remained to be severe in some pockets like Davangere Shimoga and Haveri districts. During this year intensity of disease was mild in Mandya district.
- Stalk rot incidence was moderate to severe in Mandya and Chikkaballapur districts. Other foliar disease namely MLB and CLS were of minor importance.

Table 46. Survey and surveillance of maize diseases in Punjab during *Kharif* 2016

S.No.	District	Crop Stage	Foliar diseases					Stalk rots	
			MLB	BLSB	BSDM	CLS	BLS	BSR	PFSR
1.	Shaheed Bhagat Singh Nagar	Knee high and grain filling stage	Moderate	Moderate to High	-	-	-	Moderate	Low to Moderate
2.	Hoshiarpur	Knee high and grain filling stage	Moderate	Moderate to high	-	-	-	Moderate	Low to Moderate
3.	Ludhiana	Knee high and grain filling stage	Moderate	Moderate	-	Low	Low	Low	Low to Moderate
4.	Ropar	Knee high and grain filling stage	Low to Moderate	Moderate	-	-	-	Low	Low
5.	Gurdaspur	Knee high and grain filling stage	Moderate	Moderate to High	Traces	-	-	Moderate	Low
6.	Jalandhar	Knee high and grain filling stage	Low to Moderate	Moderate	-	-	-	Low	Low to Moderate

MLB- Maydis Leaf Blight **BLSB**- Banded leaf and Sheath blight **BSDM**- Brown Stripe Downy Mildew
CLS-Curvularia Leaf Spot **BLS**-Bacterial Leaf Streak **BSR**-Bacterial stalk rot
PFSR- Post flowering stalk rots

Table 47. Disease survey, surveillance and weekly pest status at Pantnagar

Date	Crop Stage	State/District	Pest/ disease	Intensity*
06.05.2016	Cob Formation	Uttarakhand/ Udham Singh Nagar	Helminthosporium leaf spot	Low
13.05.2016	Cob Formation	Uttarakhand/ Udham Singh Nagar	Maydis Leaf Blight Curvularia Leaf spot	Low Traces
20.05.2016	Grain Filling	Uttarakhand/ Udham Singh Nagar	Curvularia Leaf spot Fusarium Salk Rot	Low Traces
27.05.2016	Grain Filling	Uttarakhand/ Udham Singh Nagar	Curvularia Leaf spot Physoderma Leaf Spot	Low Low
10.06.2016	Maturity	Uttarakhand/ Udham Singh Nagar	Cercospora leaf spot Physoderma leaf spot	Moderate Low
29.07.2016	Seedling stage	Uttarakhand/ Pantnagar	Stem borer Anthracnose Curvularia Leaf spot	M T T
06.08.2016	Seedling stage	Uttarakhand/ Pantnagar	Anthracnose Curvularia Leaf spot H. carobnum Leaf spot	T T L
02.09.2016	Tesseling stage	Uttarakhand/ Pantnagar	Curvularia Leaf spot Madis Leaf Spot Bacterial Stalk Rot Banded Leaf & Sheath Blight	L H T H
09.09.2016	Tesseling stage	Uttarakhand/ Pantnagar	Curvularia Leaf spot Madis Leaf Spot Bacterial Stalk Rot Banded Leaf & Sheath Blight	L H T H
23.09.2016	Tesseling stage	Uttarakhand/ Pantnagar	Curvularia Leaf spot Madis Leaf Spot Bacterial Stalk Rot BL&SB Physoderma Leaf spot	L H L H T

Disease intensity: T - Traces; L - Low; M - Medium; H - High

Table 48.Survey and surveillance of maize diseases in Rajasthan

Season: *Kharif* -2016 **State:** Rajasthan **Zone:** V **Centre:** Udaipur

S.No	Place	*Date*	No. of field surveyed	Crop variety	Disease Intensity/Severity											
					Foliar diseases								PFSR/ SMUT			
					DM (%)	MLB	TLB	BSDM	BLSB	CLS	BS	OTHER	PFSR	CSR	LW	Head smut
1.	Madar	1.9.16	2	Maize local	15.0	3.0	-	-	-	6.0	1.0	-	-	-	-	-
2.	Fateh nagar	8.9.16	2	Maize Local (Yellow/white)	10.0	3.0	-	-	1.0	4.5	0.0	-	Mod.	-	-	Flag smut Mod.
3.	Kharva chanda	05.8.16	4	Maize local	15.0	2.0	-	-	-	5.5	2.0	-	-	-	-	Flag smut Mod.
4.	Nai	11.9.16	4	Maize Local	25.0	2.0	-	-	-	7.5	1.5	-	Sev.	-	-	Common rust
5.	Mavli	8.9.16	4	Maize Local (Yellow/white)	-	2.5	-	-	-	5.0	2.5	-	Mod.	-	-	-
6.	Bhatevar	10.09.16	3	DHM-117	0.0	1.0	-	-	-	7.5	1.0	-	Mod.	-	-	-
7.	Dabok	6.9.16	5	Maize Local	-	2.0	1.0	-	-	5.0	2.0	-	Tr. To Mod.	-	-	Common rust
8.	Kaladwas	17.8.16	2	Sweet Corn	10.0	2.5	-	-	-	6.5	1.5	-	-	-	-	-
9.	Debari	4.9.16	5	Maize Local	-	1.5	-	-	2.0	7.0	2.0	-		-	-	Flag smut Mod.
10.	Mangalwad	14.9.16	3	Maize Local (Yellow/white)	30.0	1.0	1.5	20.0	2.5	4.5	0.5	-		-	-	-
11.	Saropa	6.9.16	3	Maize Local	25.0	2.0	-		1.0	5.0	1.0	-	Sev.	-		-
12.	Gogunda	17.9.16	5	Maize Local	20.0	2.0	1.0	25.0	1.5	6.0	0.5	-	Sev.	--	-	-

RDM – Rajasthan Downy Mildew, PFSR – Post Flowering Stalk Rot, MLB – Maydis Leaf Blight, CLS – Curvularia Leaf Spot,
BS – Brown Spot BLSB – Banded Leaf & Sheath Blight, HS = Head Smut, Tr. – Traces, Mod. – Moderate, Sev. – Severe.

Table 49. Survey and surveillance of cyst nematode, *Heterodera zeae* in maize growing areas of Southern Rajasthan)

Name of District	Villages/places Surveyed	No of Sample	Samples with *H. zeae*	Occurrence (%)	Average Nematode Population			Remarks
					Cyst/plant	Cyst/ 100cc soil	Larvae / 100 cc soil	
Raj samand	Negdia , Nathdwara , Gomti Charaha, Charbhuja, Haldighati, Sisvi and Mohi (7)	15	10	66.67	15.00	18.00	780.00	Root lesion nematode, *Pratylenchus zeae* was observed in most of the samples in high numbers (150--320 nemas/ 100 cc soil). Therefore, it requires attention.
Udaipur	Udaipur, Ghasa, Khemli, Kalladwas , Barapal, Madar , Dhunimata and Dhinkli (8)	19	13	68.42	12.00	14.23	715.38	
Chittor garh	Chittorgarh, Bhadsoda, Sanwaria, Kapasan and Bhopalsagar (5)	10	6	60.00	8.00	10.00	610.00	
Dungar pur	Dungarpur, Bichhiwada and Ashpur (3)	7	4	57.14	5.00	7.25	380.00	
Grand Total		**51**	**33**	**64.71**				

Table 50. Efficacy of newer fungicides in control of banded leaf and sheath blight at Bajaura

Treatments		Mean disease score (1-9)	PDI*	Disease control (%)	Yield (q/ha)	Yield increase (%)
T_1	Difenconazole @ 0.1 %	4.8	53.3 (46.8)	27.3	46.8	23.5
T_2	Hexaconazole @ 0.1%	5.0	55.9 (48.4)	23.7	47.9	26.4
T_3	Carbendazim @ 0.1%	5.3	59.3 (50.3)	19.1	46.7	23.2
T_4	Validamycin @ 0.1%	3.1	34.4 (35.9)	53.1	50.9	34.3
T_5	Tebuconazole @ 0.05%	4.3	48.1 (43.9)	34.4	50.8	34.0
T_6	Trifloxystrobin 25% + Tebuconazole 50% @ 0.05%	3.1	34.1 (35.6)	53.5	56.0	47.8
T_7	Azoxystrobin @ 0.05%	4.1	45.9 (42.6)	37.4	51.1	34.8
T_8	Untreated check (water spray)	6.6	73.3 (58.8)	-	37.9	-
CD (0.05)		0.3	2.2	-	6.9	-
CV (%)		4.3	5.8	-	8.2	-

*Test Variety Name: Early Composite, *Transformed (angular transformation) in the parentheses., Pencycuron @ 0.1% not available.

Result: All the treatments were found effective as compared to untreated check. Treatment T_6, Trifloxystrobin 25% + Tebuconazole 50% @ 0.05% and Treatment T_4, Validamycin @ 0.1% were most effective which gave 53.5% and 53.1% BLSB control with 47.8% and 34.3% increase in yield, respectively.

Table 51. Efficacy of newer fungicides in control of banded leaf and sheath blight at Dhaulakuan

Treatments		Mean disease score (1-9)	PDI*	Disease control(%)	Yield (q/ha)	Yield increase (%)
T_1	Difenconazole @ 0.1 %	3.7	40.29 (39.38)	18.34	32.72	15.93
T_2	Hexaconazole @ 0.1%	3.3	27.30 (31.48)	44.71	34.67	22.83
T_3	Carbendazim @ 0.1%	2.3	29.33 (32.77)	40.59	37.08	31.38
T_4	Validamycin @ 0.1%	2.3	26.33 (30.85)	46.69	39.67	40.56
T_5	Tebuconazole @ 0.05%	3.7	35.89 (36.78)	27.29	35.89	27.16
T_6	Trifloxystrobin 25% + Tebuconazole 50% @ 0.05%	4.3	41.14 (39.8)	16.62	33.18	17.57
T_7	Azoxystrobin @ 0.05%	1.7	16.52 (23.96)	66.61	45.54	61.34
T_8	Pencycuron @ 0.1%	2.7	28.07 (31.98)	43.16	38.24	35.50
T_9	Untreated check (water spray)	4.7	49.33 (44.60)	-	28.22	-
SEM+			0.45		1.37	
CD (0.05)			1.37		0.45	
CV (%)			2.2		2.16	

*Test Variety Name: DKC 7074, * Transformed values in parenthesis

Result: All the treatments were found effective as compared to untreated check. Treatment T_7, Azoxystrobin @ 0.05% was most effective which gave 66.61% BLSB control with 61.34% increase in yield followed by Validamycin @ 0.1%, Hexaconazole @ 0.1% and Pencycuron @ 0.1% that showed 46.69, 44.71 and 43.16% disease control as compared to check.

Table 52. Efficacy of newer fungicides in control of banded leaf and sheath blight at Delhi

Treatments		Disease score (1-5 scale)	PDI	% Disease Inhibition	Yield (kg/3m^2)	Yield (Q/ha)	Yield increase (%)
T_1	Difenconazole @ 0.1%	3.7	71.64	15.06	0.954	31.79	35.29
T_2	Hexaconazole @ 0.1% (Contaf)	3.3	69.44	20.57	1.094	31.32	34.32
T_3	Carbendazim @ 0.1% (Bavistin)	3.4	68.27	21.91	0.946	31.25	34.18
T_4	Validamycim @ 0.1% (Sheathmar)	3.0	59.36	32.11	1.114	37.15	44.63
T_5	Tebuconazole @ 0.05% (Folicur)	3.9	77.73	11.10	0.909	30.32	32.16

Contd.

T_6	Trifloxystrobin 25% + Tebuconazole 50% @ 0.05% (Nativo)	3.5	69.72	20.26	0.904	29.89	31.18
T_7	Azoxystrobin @ 0.05% (Amistar)	3.1	62.79	28.18	1.166	38.85	47.05
T_8	Pencycuron @ 0.1% (Monceren)	3.2	64.55	26.17	0.836	27.87	26.19
T_9	Untreated check (Water spray)	4.4	87.43	-	0.610	20.57	-
	CD	N/A	N/A	-	N/A	-	-
	SE(m)	0.3	6.13	-	0.150	-	-
	SE(d)	0.4	8.68	-	0.211	-	-
	CV	15.2	15.16	-	27.315	-	-

*Test Variety Name: Vivek QPM 9

Result: Efficacy of eight fungicides were evaluated in the management of BLSB disease. Validamycin (0.1%) was found superior followed by Azoxystrobin (0.05%), Pencycuron (0.1%), Carbendazim (0.1%), Hexaconazole (0.1%), Trifloxystrobin 25% + Tebuconazole 50% (0.05%), Difenconazole (0.1%) and Tebuconazole (0.05%).

Table 53. Efficacy of newer fungicides in control of banded leaf and sheath blight at Godhra

Treatments		Mean disease score (1-5)	PDI*	Disease control (%)	Yield (q/ha)	Yield increase (%)
T_1	Difenconazole @ 0.1%	1.75	17.50 (27.70)	56.25	31.83	24.58
T_2	Hexaconazole @ 0.1%	2.42	24.17 (29.42)	39.58	30.84	20.70
T_3	Carbendazim @ 0.1%	2.50	25.00 (29.96)	37.50	26.79	4.85
T_4	Validamycin @ 0.1%	2.83	28.33 (32.12)	29.17	29.15	14.09
T_5	Tebuconazole @ 0.05%	2.33	23.33 (28.86)	41.67	30.44	19.14
T_6	Trifloxystrobin 25% + Tebuconazole 50% @ 0.05%	1.17	11.67 (19.95)	70.83	35.87	40.39
T_7	Azoxystrobin @ 0.05%	2.50	25.00 (29.98)	37.50	26.80	4.89
T_8	Pencycuron @ 0.1%	1.83	18.33 (25.31)	54.17	31.58	23.60
T_9	Untreated check (water spray)	4.00	40.00 (39.21)	-	25.55	-
S. Em±		0.74	0.42	-	0.66	-
CD (0.05)		0.22	1.27	-	1.98	-
CV (%)		5.40	2.54	-	3.83	-

*Test Variety Name: GM-6, *Figures in parenthesis are angular transformed values

Results: The *kharif* 2016 results revealed that all the treatments were found significantly superior over control. Among the treatments Trifloxystrobin 25% + Tebuconazole 50% (0.05%) was found best in checking banded leaf and sheath blight (BLSB) disease severity (11.67%) resulted in highest grain (35.87 q/ha) with 40.39% yield increase over check.

Table 54. Efficacy of newer fungicides in control of common rust at Karnal

Treatments		PDI*	Disease control (%)	Yield (q/ha)	Yield increase (%)
T_1	Difenconazole @ 0.1 %	51.30 (45.70)	37.78	8.56	42.78
T_2	Hexaconazole @ 0.1%	52 .23 (47.98)	32.97	7. 90	31.67
T_3	Tebuconazole @ 0.05%	52.30 (46.32)	36.49	8.47	41.11
T_4	Propiconazole @ 0.1%	50.80 (45.44)	38.35	9.05	53.33
T_5	Trifloxystrobin 25% + Tebuconazole 50% @ 0.05%	49.20 (44.54)	40.25	10.07	67.78
T_6	Azoxystrobin @ 0.05%	57.50 (49.30)	30.22	7.67	27.78
T_7	Inoculated Control	80.40 (65.19)	0.00	6.00	0.00
T_8	Untreated check	67.50 (55.24)	18.08	7.43	23.89
T_9	(water spray)	64.30 (53.13)	22.29	7.50	25.00
Sem+		0.92	-	0.31	-
CD (0.05)		(2.78)	-	0.95	-
CV (%)		3.16	-	6.81	-

*Test Variety Name: 900 M Super

Table 55. Efficacy of newer fungicides in control of TLB and common rust at Dharwad

Treatments		Dose (%)	TLB		C. RUST		Yield (q/ha)	Yield increase (%)
			PDI*	Disease control (%)	PDI*	Disease control (%)		
T_1	Hexaconazole 5 EC	0.1	50.50 (45.56)	40.95	48.50 (44.41)	30.71	57.85	11.57
T_2	Tebuconazole 250 EC	0.1	26.10 (30.70)	69.48	27.50 (31.60)	60.71	71.64	38.16
T_3	Difenconazole 25 EC	0.1	31.00 (34.04)	63.75	34.75 (36.32)	50.35	64.95	25.26
T_4	Propiconazole 25 EC	0.1	44.80 (41.82)	47.62	35.75 (36.96)	48.92	67.02	29.25
T_5	Hexaconazole 4% + Zineb 68%	0.2	48.50 (44.41)	43.2	53.25 (47.16)	23.92	64.10	23.62
T_6	Hexaconazole 5% + Captan 70%	0.2	66.45 (54.62)	22.3	65.71 (54.21)	6.12	53.88	3.91
T_7	Carbendazim 25% + Iprodione 25%	0.2	73.20 (68.89)	14.41	68.81 (56.06)	1.7	52.75	1.73
T_8	Trifloxystrobin 25% + Tebuconazole 50%	0.05	34.30 (35.88)	59.89	32.63 (34.82)	53.38	71.50	37.89
T_9	Untreated Control	-	85.53 (67.60)	-	70.00 (57.13)	-	51.85	-
S.Em+			1.29	-	1.23	-	1.35	-
CD (P=0.05)			3.75	-	3.67	-	3.91	-
CV (%)			8.66	-	6.48	-	17.32	-

*Test Variety Name: 900 M Super, Figures in parentheses are Arcsine transformed values

Results: Foliar application of Tebuconazole 250 EC @ 0.1% found significantly superior with respect to disease control and yield. Tebuconazole 250EC recorded 69.48% TLB disease control and 60.71% C. Rust disease control efficacy and resulted in 38.16% increase in yield over untreated control.

Table 56. Efficacy of bioagents, fungicide and potash in control of post-flowering stalk rots at Udaipur

Treatments		Mean disease score (1-9)	PDI	Disease control (%)	Grain yield	
					(q/ha)	Increase (%)
T_1	*TH -3* @ 0.5% as seed treatment, bioagent-fortified FYM (1:50) and spray @ 0.5%	3.2	35.55	57.33	40.7	45.35
T_2	*Pseudomonas fluorescens @ 0.5%* as seed treatment, bioagent-fortified FYM (1:50) and spray @ 0.5%	3.5	38.88	53.34	35.20	25.71
T_3	Local strains of fungal antagonists @ 0.5% as seed treatment, bioagent-fortified FYM (1:50) and spray @ 0.5%	2.5	27.77	65.67	46.7	66.78
T_4	Spraying of muriate of potash @ 1-2% at 30 days after planting	3.3	36.66	56.00	38.5	37.50
T_5	Propiconazole @ 0.1% spray at 40 DAS	2.5	27.77	65.67	48.0	71.42
T_6	Double dose of muriate of potash at 45 DAS	3.0	33.33	60.00	42.5	51.78
T_7	Untreated check (water spray)	7.5	83.33	-	28.0	-
SEM+		0.110	0.836	1.118	1.055	3.880
CD (0.05)		0.326	2.485	3.321	3.136	11.529
CV (%)		6.03	4.22	4.35	5.28	18.06

*Test Variety Name: Hybrid-Pratap Makka-3

Note: Bio-agent fortified FYM under moist condition was incubated for 25 days and thereafter, it was applied in furrow near root zone of the plants before sowing of experiment.

Table 57. Efficacy of bioagents and fungicides in control of RDM at Udaipur and SDM at Mandya

Treatments		RDM at Udaipur				SDM at Mandya			
		Disease incidence (%)	Disease control (%)	Grain yield		Disease incidence* (%)	Disease control (%)	Grain yield	
				(q/ha)	Increase (%)			(q/ha)	Increase (%)
T_1	*Bacillus amyloliquefaciens* @10g/kg as seed treatment, bioagent-fortified FYM (1:50) and spray @ 1.0%	45.55	43.06	35.15	40.60	28.09 (32.01)	67.42	27.36	73.28
T_2	*TH-3* @ 0.5% as seed treatment, bioagent-fortified FYM (1:50) and spray @ 0.5%	34.50	56.87	40.50	62.00	53.81 (47.19)	37.58	14.58	49.83
T_3	*TV-3 (Trichoderma viride)* @ 0.5% as seed treatment, bioagent-fortified FYM (1:50) and spray @ 0.5%	17.5	78.12	45.5	82.00	33.87 (35.59)	60.71	22.15	66.99
T_4	Fosetyl-al @ 0.2% seed treatment and spray @ 0.2%	15.5	80.62	48.5	94.00	44.64 (41.92)	48.22	15.99	54.28

Contd.

T_5	Azoxystrobin @ 0.2% seed treatment and spray @ 0.15%	NA	NA	NA	NA	07.56 (15.96)	91.24	43.65	83.25
T_6	Metalaxyl+Mancozeb @ 0.25% seed treatment and spray @ 0.25%	17.85	77.68	43.84	75.36	05.91 (14.07)	93.15	46.78	84.37
T_7	Metalaxyl @ 0.25% seed treatment and spray @ 0.25%	18.50	76.87	48.89	95.56	25.43 (30.28)	70.50	26.95	72.87
T_8	Untreated check (water spray)	80.00	-	25.00	-	86.19 (68.18)	-	7.31	-
SEM+		1.053	1.020	1.07	0.578	03.83	-	214.6	-
CD (0.05)		3.130	3.031	3.204	1.782	11.61	-	650.9	-
CV (%)		6.43	3.46	5.25	3.72	18.57	-	14.5	-

*Test Variety Name: - **RDM: -** Pratap Makka-3 (Udaipur); **SDM: -** CM 500 (Mandya)

Note: Incubated bio-agent fortified FYM under moist condition for 20 days before sowing of experiment.

* Values in the parenthesis indicate Arcsine transformed values

Table 58. Efficacy of Salicylic acid on incidence of TLB at Bajaura

Treatments		Mean disease score (1-9 scale)	PDI*	Disease control (%)	Yield (q/ha)	Yield increase (%)	Germination (%)
T_1	50 ppm SA as seed priming (SP)	5.1	56.4 (48.6)	12.4	41.6	2.7	81.8
T_2	100 ppm SA (SP and Foliar spray 24 hrs after inoculation)	4.7	52.2 (46.2)	18.9	44.5	9.9	80.0
T_3	150 ppm SA (Foliar spray 24 hrs before inoculation)	4.2	46.9 (43.2)	27.2	48.5	19.8	83.1
T_4	200 ppm SA (Foliar spray 24 hrs before inoculation)	3.9	43.3 (41.1)	32.8	49.8	23.0	81.2
T_5	Check (seed dipping in water and water spray)	5.8	64.4 (53.4)	-	40.5	-	80.6
CD (0.05)		0.2	1.3	-	6.9	-	NS
CV (%)		2.8	5.8	-	10	-	-

*Transformed (angular transformation) in the parentheses.

Result: All the treatments were found effective as compared to untreated check gave 12.4 to 32.8 per cent disease control with 2.7 to 23 per cent increase in yield as compared to check. Treatment T4, Salicylic acid (SA) spray @ 200 ppm 24 hrs before inoculation was most effective which gave 32.8% TLB control with 23.0% increase in yield. No toxic/ synergetic effect could be observed on germination.

Table 59. Efficacy of Salicylic acid on incidence of TLB at Kalyani

Treatments		Germination (%)	PDI	Disease control (%)	Yield (q/ha)	Yield increase (%)
T1	50 ppm SA as seed priming (SP)	85.87	28.66	23.43	7.66	38.51
T2	100 ppm SA (SP and foliar spray	89.11	28.17	24.73	9.8	77.21
T3	150ppm SA (foliar spray 24 hrs before inoculation)	92.56	21.75	41.89	10.26	85.53
T4	200 ppm SA (foliar spray 24 hrs before inoculation)	93.21	27.41	26.76	9.96	80.1
T5	Check (seed dip in water & water spray)	95.76	37.43	0	5.53	0
SEM +		1.77	2.51	-	0.78	-
CD (0.05)		5.45	7.75	-	2.41	-
CV (%)		3.88	17.49	-	18.13	-

*Test Variety Name: BN 105

Table 60. Efficacy of Salicylic acid on incidence of MLB at Karnal

Treatments		PDI*	Disease Control (%)	Yield (q/ha)	Yield increase (%)
T_1	50 ppm SA* as seed priming (SP)	61.2 (51.47)	12.4	6.3	13.6
T_2	100 ppm SA (SP and foliar spray after 24hrs after inoculation)	47.5 (43.53)	32.1	6.9	24.5
T_3	150 ppm SA (foliar spray 24hrs before inoculation).	52.7 (46.52)	24.6	6.6	20.5
T_4	200 ppm SA (foliar spray 24hrs before inoculation).	55.3 (48.04)	20.9	6.6	20.0
T_5	Check (Seed dip in water & spray)	72.9 (58.67)	-	5.5	-
CD (0.05)		3.20	-	0.55	-
SE(m)		1.02	-	0.18	-
SE(d)		1.45	-	0.25	-
CV%		4.13	-	5.51	-

*Test Variety Name: HKI 1105 + HKI 536CBT

*Figure in parenthesis is angular transformed values

Table 61. Efficacy of Salicylic acid on incidence of MLB and C. rot at Ludhiana

Treatments		PDI		Dried grain weight* (gm/plot)	Average yield (q/ha)	Yield increase (%)
		Maydis leaf Blight	Charcoal rot			
T_1	Salicylic acid (SA) @ 50 mg/litre as seed priming	60.0 [ab]	70.0 [a]	2131.5 [ab]	29.6	6.75
T_2	Salicylic acid (SA) @ 100 mg/litre as seed priming and spray @100 mg/litre water	56.5 [cb]	63.3 [ab]	2408.2 [ab]	33.4	17.36
T_3	Acibenzolar-S-methyl (ASM)@ 200 mg/litre as seed priming	46.3 [d]	55.8 [b]	2988.5 [b]	41.5	33.49
T_4	ASM @ 100 mg/litre as seed priming	48.7 [d]	58.2 [b]	2800.2 [ab]	38.9	29.04
T_5	Salicylic acid (SA) @ 150mg/litre as spray	55.8 [be]	59.3 [b]	2664.2 [ab]	37.0	25.40
T_6	Salicylic acid (SA) @ 200 mg/litre as spray	52.5 [cde]	61.1 [b]	2874.2 [ab]	39.9	30.82
T_7	ASM @ 100mg/litre as spray	50.0 [de]	63.3 [ab]	2650.0 [ab]	36.8	25.0
T_8	Control	64.8 [a]	72.8 [a]	1990.0 [a]	27.6	-

*Test Variety Name: Punjab Sweet corn, * Mean of three replications

Values within experiments followed by the same letter are not significantly different at P = 0.05

Table 62. Efficacy of Salicylic acid on incidence of MLB at Dholi

Treatments		Germination (%)	Mean Disease score (1-5)	PDI	Disease control (%)	Grain yield (q/ha)	Yield increase (%)
T_1	Salicylic acid (SA) @ 50 mg/litre water as seed priming.	87.75	3.8	75.00 (60.00)	16.66	33.99	2.79
T_2	Salicylic acid (SA) @ 50 mg/litre water as seed priming and foliar spray @ 100 mg/litre water (after 24 hrs inoculation) .	87.00	3.3	65.00 (53.73)	27.77	35.94	8.06
T_3	Salicylic acid (SA) @ 150 mg/litre water as foliar spray (before 24 hrs inoculation).	84.50	3.0	60.00 (50.77)	33.33	37.67	12.29
T_4	Salicylic acid (SA) @ 200 mg/litre water as foliar spray (before 24 hrs inoculation).	83.50	1.8	35.00 (36.27)	61.11	40.44	18.29
T_5	Check (Seed dip in water & spray).	80.50	4.5	90.00 (71.56)	-	33.04	-
	SEM+	1.291	0.64	-	-	0.34	-
	CD (0.05)	4.022	2.02	-	-	1.05	-
	CV %	3.050	12.72	-	-	1.86	-

*Test Variety Name: CML 186, (Figures within the parenthesis are angular transformed values)

Table 63. Efficacy of Salicylic acid on incidence of BLSB at Delhi

Treatments		Germination (%)	PDI	Disease control (%)	Yield	
					q/ha	Increase (%)
T_1	50 ppm SA as seed priming (SP)	46	75.75	8.83	23.63	-1.43
T_2	100 ppm SA (SP + Foliar spray after 24hr inoculation)	0.00	0.00	0.00	0.00	0.00
T_3	150 ppm SA (Foliar spray 24 hr. before inoculation)	82	71.87	13.50	28.94	17.17
T_4	200 ppm SA Foliar spray 24 hr. before inoculation	90	71.67	13.74	30.95	22.55
T_5	Check (seed dip in water and water spray)	88	83.09		23.97	
	SE(m)		10.24		3.351	
	CD (0.05)		33.90		11.097	
	CV (%)		29.32		26.995	

*Test Variety Name: Vivek QPM 9

Table 64. Efficacy of Salicylic acid on incidence of BLSB and BSR at Dhaulakuan

Treatments		PDI*		Disease control (%)		Grain yield	
		BLSB	BSR	BLSB	BSR	(q/ha)	Increase (%)
T_1	50 ppm SA* as seed priming (SP)	34.17 (35.75)	36.84 (35.99)	27.27	17.38	47.46	7.35
T_2	100 ppm SA (SP and foliar spray after 24hrs after inoculation)	41.30 (39.97)	33.59 (30.65)	12.11	24.66	51.79	17.15
T_3	150 ppm SA (foliar spray 24hrs before inoculation).	46.10 (42.75)	41.06 (43.17)	1.89	7.91	48.33	9.32
T_4	200 ppm SA (foliar spray 24hrs before inoculation).	29.16 (32.67)	42.78 (46.16)	37.94	4.05	52.09	17.81
T_5	Check (Seed dip in water & spray)	46.99 (43.26)	44.59(49.33)	-	-	44.21	-
	SEM+	0.52	0.69			0.63	
	CD (0.05)	1.59	2.12			1.96	
	CV (%)	2.63	3.46			2.59	

*Test Variety Name: DKC 7074, * Transformed values in parenthesis

Table 65. Efficacy of Salicylic acid on incidence of BLSB at Godhra

Treatments		Germination (%)	PDI	Disease control (%)	Grain yield	
					(q/ha)	Increase (%)
T_1	50 ppm SA* as seed priming (SP)	98.44	29.67 (32.97)	62.76	30.89	26.34
T_2	100 ppm SA (SP and foliar spray after 24hrs after inoculation)	98.22	22.22 (28.10)	72.11	34.68	41.84
T_3	150 ppm SA (foliar spray 24hrs before inoculation).	97.11	34.22 (35.77)	57.05	27.55	12.68
T_4	200 ppm SA (foliar spray 24hrs before inoculation).	98.44	28.67 (32.33)	64.02	28.23	15.46
T_5	Check (Seed dip in water & spray)	96.44	79.67 (63.45)	-	24.45	-
	S. Em±	0.43	1.03	-	0.32	-
	C D (0.05%)	1.41	3.35	-	1.07	-
	CV (%)	0.51	4.63	-	1.95	-

*Test Variety Name GM-6, *Commercial grade of SA

Results: The *kharif* 2016 results revealed that all the treatments were found significantly superior over control. Among the treatments 100 ppm SA (SP and foliar spray after 24hrs after inoculation) was found best in checking banded leaf and sheath blight (BLSB) disease severity (22.22%) resulted in highest grain (34.68 q/ha) with 41.84% yield increase over check.

Table 66. Efficacy of Salicylic acid on incidence of BLSB at Karnal

Treatments		PDI*	Disease Control (%)	Yield (q/ha)	Yield Increase (%)
T_1	50 ppm SA* as seed priming (SP)	63.2 (52.65)	9.2	38.1	15.7
T_2	100 ppm SA (SP and foliar spray after 24hrs after inoculation)	52.9 (46.63)	24.0	41.1	24.8
T_3	150 ppm SA (foliar spray 24hrs before inoculation).	56.4 (48.65)	19.0	39.7	20.5
T_4	200 ppm SA (foliar spray 24hrs before inoculation).	57.9 (49.52)	16.8	38.9	18.2
T_5	Check (Seed dip in water & water spray)	69.6 (56.56)	-	32.9	-
CD (0.05)		3.313		3.305	
SE(m)		1.064		1.061	
SE(d)		1.504		1.5	
CV%		4.187		5.567	

*Test Variety Name: HM 4, *Figure in parenthesis is angular transformed values

Table 67. Efficacy of Salicylic acid on incidence of BLSB at Pantnagar

Treatments		Germination (%)	PDI	Disease control (%)	Grain Yield (q/ha)	Increase in Yield (%)
T_1	Seed priming (SP) 50ppm (50 mg/liter) S.A.	79.38	95.56	4.44	20.78	5.97
T_2	Seed priming (SP) 100ppm (100 mg/liter) S.A. + spray After 24 hrs of inoculation	71.88	92.78	7.22	22.09	12.65
T_3	Spray 150ppm (150 mg/liter) S.A. Before 24 hrs of inoculation	71.25	95.56	4.44	20.15	2.75
T_4	Spray 200ppm (200 mg/liter) S.A. Before 24 hrs of inoculation	67.19	93.89	6.11	20.42	4.13
T_5	Check (Seed dip in water & water spray)	75.94	100.00	0.00	19.61	0.00
SEM		5.68	1.71		1.01	
CD (0.5)		17.49	5.26		3.12	
CV (%)		15.52	3.57		9.83	

Table 68. Efficacy of Salicylic acid on incidence of RDM at Udaipur

Treatments		Disease incidence (%)	Disease control (%)	Grain yield	
				(q/ha)	Increase (%)
T_1	Salicylic acid (SA) @ 100 µg/g	29.00	63.75	44.0	57.14
T_2	Salicylic acid (SA) @ 150 µg/g	18.0	77.50	46.0	64.28
T_3	Salicylic acid (SA) @ 200 µg/g	16.50	79.37	52.5	-
T_4	Salicylic acid (SA) @ 250 µg/g	12.0	85.00	46.8	67.14
T_5	Untreated check (water spray)	80.0	-	28.0	-
	SEM+	0.58	0.72	1.68	6.00
	CD (0.05)	1.78	2.23	5.02	18.48
	CV (%)	3.72	2.37	7.50	21.55

*Test Variety Name: Pratap Makka-3

- All the plants in the trial were artificially inoculated by whorl inoculation technique.
- Due to improper rains and dry spell for longer period the disease pressure was not proper

Table 69. Effect of bioextracts/ natural products on the incidence of MLB at Delhi

Treatments		Mean disease score (1-9)	PDI	Disease control (%)	Grain yield	
					q/ha	Increase (%)
T_1	*Azadiracta indica (*Neem) leaves @10%	6.5	72.22	23.53	16.98	45.45
*T_2	*Pongamia pinnata* (Kranj) @ 10% extract	-	-	-	-	-
T_3	*Datura stramonium* (Datura) @10%	7.5	83.33	11.76	15.03	38.39
T_4	*Calotropis sp.* (Madar) @ 10%	7.5	83.33	11.76	16.24	42.96
*T_5	*Cymbopogon flexousus* @ 10% (Lemon grass)	-	-	-	-	-
T_6	*Allium sativum* (garlic) bulb @ 10%	7.0	77.77	17.64	15.31	39.49
T_7	*Eucalyptus* sp. @ 10%	7.5	83.33	11.76	15.12	38.76
T_8	*Polyalthia longifolia* (False Ashoka) @10%	7.0	77.77	17.64	15.24	39.24
T_9	*Ocimum sanctum* (Tulsi) @ 10%	7.5	83.33	11.76	13.21	29.87
T_{10}	*Parthenium hysterophorus* @ 10%	7.5	83.33	11.76	17.40	46.77
T_{11}	Cow urine @ 50%	8.5	94.44	0.00	13.19	29.79
T_{12}	*Lantana camara*@ 10%	7.5	83.33	11.76	14.99	38.20
T_{13}	Fungicidal check I (Mancozeb)	7.5	83.33	11.76	18.42	49.71
T_{14}	Check II (water spray)	8.5	94.44	-	9.26	-
CD		N/A	N/A	N/A	-	4.12
SE(m)		0.477	0.5	5.30	-	1.31
SE(d)		0.674	0.7	7.49	-	1.85
CV		8.989	9.0	8.99	-	12.31

*Test Variety Name: CM 600, *T3 and T5: Plant species were not available

Table 70. Effect of bioextracts/ natural products on the incidence of MLB at Karnal

Treatments		PDI*	Disease control (%)	Yield (q/ha)	Yield increase (%)
T_1	*Azadirachta indica* leaves @ 10%	55.8 (48.34)	30.2	7.43	32.7
T_2	*Datura stramonium* (Datura) @ 10%	57.3 (49.21)	28.3	7.10	26.8
T_3	*Calotropis sp.* (AK, Madar) @ 10%	56.0 (48.45)	30.0	7.43	32.7
T_4	*Allium sativum* (garlic) bulb @ 10%	50.6 (45.03)	36.8	7.80	39.3
T_5	*Eucalyptus* sp. @ 10%	63.5 (52.80)	20.7	6.97	24.4
T_6	*Polyalthia longifolia* (False Ashoka) @ 10%	64.5 (53.43)	19.4	6.57	17.3
T_7	*Ocimum sanctum* (Tulsi) @ 10%	56.0 (48.43)	30.0	7.37	31.5
T_8	*Parthenium hysterophours* @ 10%	67.6 (55.28)	15.5	6.40	14.3
T_9	Cow urine @ 50%	55.6 (48.20)	30.5	7.37	31.5
T_{10}	*Lantana camara* @ 10%	63.3 (52.72)	20.9	6.87	22.6
T_{11}	Fungicidal check I	47.6 (43.62)	40.5	7.93	41.7
T_{12}	Check II (water spray)	80.0 (63.41)		5.63	
CD (0.05)		3.23		0.725	
SE(m)		1.094		0.246	
SE(d)		1.548		0.347	
CV (%)		3.733		6.012	

*Test Variety Name: HKI 1105 + HKI 536CBT, *Figure in parenthesis is angular transformed values

Table 71. Effect of bioextracts/ natural products on the incidence of MLB at Dholi

Treatments		Mean Disease score (1-5)	PDI	Disease control (%)	Mean Grain yield (q/ ha)	Yield increase (%)
T1	*Azadirachta indica* leaves @10%	2.7	53.20 (46.83)	38.54	41.52	17.75
T2	*Datura stramonium* (Datura) @10%	3.7	73.20 (58.82)	15.53	35.41	3.55
T3	*Cymbopogon flexousus* (Lemon grass) @10%	3.7	73.20 (58.82)	15.53	35.59	4.04
T4	*Allium sativum* (Garlic bulb) 10%	3.0	60.00 (50.77)	30.76	38.50	11.29
T5	*Ocimum Sanctum* (Tulsi) @ 10%	3.3	66.66 (54.70)	23.07	35.67	4.26
T6	*Parthenium hysterophorus* @10%	4.0	80.00 (63.44)	0.76	34.35	0.58
T7	Cow urine @10%	3.3	66.66 (54.70)	23.07	35.53	3.88
T8	Fungicidal spray (Mancozeb) @0.25%	2.3	46.66 (43.06)	46.15	45.90	25.59
T9	Check II (water spray)	4.3	86.66 (68.53)	-	34.15	-
	SEM+	0.6	-	-	0.385	-
	CD (0.05)	1.7	-	-	1.164	-
	CV (%)	9.3	-	-	1.782	-

*Test Variety Name: CML 186, (Figures within the parenthesis are angular transformed values)

Table 72. Effect of bioextracts/ natural products on the incidence of MLB at Karnal

Treatments		Mean Disease score (1-9)	PDI*	Disease Control (%)	Yield (q/ha)	Yield increase (%)
T_1	Aquous extract of *Melia azedarach* leaves @10%	4.4	48.5 (44.1)	28.8	38.6	33.7
T_2	Aquous extract of dry rhizomes of Sweet Flag (*Acorus calamus*) @10%	5.1	56.7 (48.8)	16.8	37.5	29.7
T_3	Aquous extract of dry Ginger Powder @10%	5.3	59.3 (50.3)	13.0	36.3	25.6
T_4	Aquous extract of cloves of Garlic (*Allium sativum*) @10%	4.6	50.7 (45.4)	25.5	37.4	29.3
T_5	Cow Urine @15%	4.6	51.1 (45.6)	24.9	36.4	25.9
T_6	Fungicidal Check (Two sprays of Dithane M45 @2.5gm/l)	3.2	35.6 (36.6)	47.8	45.7	58.0
T_7	Control (water spray)	6.1	68.1(55.6)		28.9	
CD 5%		0.5	3.2		4.6	
CV (%)		5.9	6.8		11.5	

*Test Variety Name: Early Composite, *Transformed (angular transformation) in the parentheses.

Result: All the treatments were found effective as compared to untreated check. Among plant extract treatment T_1, aquous extract of *Melia azedarach* leaves @ 10% was most effective which gave 28.8% TLB control with 33.7% increase in yield. None of the plant extract was found effective as compared to fungicidal check which gave 47.8 per cent disease control with 58 per cent increase in yield.

Table 73. Effect of bioextracts/ natural products on the incidence of TLB at Kalyani

Treatments		Mean disease score (1-5)	PDI	Disease control (%)	Grain yield	
					q/ha	Increase (%)
T_1	*Azadirachta indica* leaves @ 10%	2.8	41.5	43.71	5.1	47.39
T_2	*Pongamia pinnata* (Kranj) @ 10% extract	1.48	34.1	53.75	5.26	52.02
T_3	*Calotropis* sp. @ 10%	2.56	40.1	45.61	5.53	59.82
T_4	*Datura stramonium* (Datura) @ 10%	1.73	24.6	66.63	6.76	95.37
T_5	*Parthenium hysterophorus* @ 10%	2.82	48.1	34.76	5.03	45.37
T_6	*Lantana camara*	2.76	46	37.61	5.06	46.24
T_7	*Polyalthia longifolia* (false Ashoka)@ 10%	2.78	45.4	38.42	5.11	47.68
T_8	*Ocimum sanctum* (Tulsi) @ 10%	2.86	41.5	43.71	5.03	45.37
T_9	*Allium sativum* (garlic) bulb @ 10%	1.79	25.3	65.68	6.06	75.14
T_{10}	Cow urine @ 50%	1.95	29.2	60.39	6.03	74.27
T_{11}	Hexaconazole (recommended dose)	3.4	48.4	34.35	5.02	45.08
T_{12}	Check (water spray)	4.7	73.73	0	3.46	0
SEM +		-	6.16	-	0.74	-
CD (0.05)		-	12.79	-	1.55	-
CV (%)		-	7.6	-	-	-

*Test Variety Name: BN105

Table 74. Effect of bioextracts/ natural products on the incidence of TLB at Mandya

Treatments		Mean disease score (1-9)	PDI	Disease control (%)	Grain yield	
					(q/ha)	Increase (%)
T_1	*Azadirachta indica* leaves @ 10%	2.7	36.60 (37.23)	54.43	26.43	60.31
T_2	*Pongamia pinnata* (Kranj) @10% extract	4.7	58.93 (50.14)	26.64	18.38	42.92
T_3	*Calotropis* sp. (AK, Madar) @10%	4.0	49.40 (44.66)	38.50	21.63	51.50
T_4	*Allium sativum* (garlic) bulb @10%	5.3	64.50 (53.43)	19.70	13.67	23.26
T_5	*Eucalyptus* sp. @10%	5.3	65.43 (53.99)	18.54	12.76	17.78
T_6	*Polyalthia longifolia* (False Ashoka) @ 10%	4.3	54.07 (47.33)	32.69	15.34	31.61
T_7	*Ocimum sanctum* (Tulsi) @ 10%	5.0	59.10 (50.24)	26.42	15.50	32.32
T_8	*Parthenium hysterophorus* @ 10%	4.3	52.13 (46.22)	35.10	19.31	45.67
T_9	Cow urine @ 50%	4.0	50.70 (45.40)	36.88	19.62	46.53
T_{10}	*Lantana camara* @10%	4.3	52.60 (46.49)	34.52	19.63	46.56
T_{11}	Fungicidal check I	2.0	27.93 (31.90)	65.23	31.82	67.03
T_{12}	Check II (water spray)	6.6	80.33 (63.67)	-	10.49	-
Mean			54.31		17.37	
SEm ±			2.4		144.5	
CD @ 5.0 %			6.9		423.9	
CV (%)			7.5		13.4	

*Test Variety Name: CM 202, * Values in the parenthesis indicate Arcsine transformed values

Table 75. Efficacy of leaf stripping on severity of BLSB at Delhi

Varity	PDI		Disease control (%)	Grain yield (Q/ha)	Increase over control/unstrapped method (%)
	Unstripped	Stripped			
Vivek QPM 9	5.450	4.400	19.27	48.430	13.57
CP-999	3.700	2.750	31.25	44.660	17.26
CP-838	5.650	3.100	16.22	46.240	20.22
IM-8222	5.000	3.550	37.12	54.530	22.29
KH-2192	5.000	3.300	34.00	50.145	33.60
Rasi-864	4.200	2.350	44.05	34.330	22.98
CD (0.05)	N/A	N/A		N/A	
SE(m)	0.968	0.655		4.307	
SE(d)	1.369	0.927		6.091	
CV (%)	29.345	28.588		13.130	

Table 76. Efficacy of leaf stripping on severity of BLSB at Karnal

Entries	PDI		Disease control (%)	Av. Grain yield (q/ha)		Increase over control (%)
	Unstripped	Stripped		Stripped	Unstripped	
HM -4	66.6	50.3	24.5	59.2	53.1	10 .3
HM -5	70.5	56.4	20.0	67.6	54.2	19.8
HM -6	60.6	46.8	22.8	66.2	56.2	15.1
HQPM-1	77.5	58.2	24.9	63.4	50.4	20.5
HQPM-4	75.8	54.7	27.8	61.8	53.4	13.6
HQPM-5	76.4	55.2	27.7	59.8	50.5	15.5
HQPM 7	50.7	42.3	16.6	63.2	58.7	7.1

*Four rows of each variety.

Table 77. Efficacy of leaf stripping on severity of BLSB at Ludhiana

Entries	Disease Index* (%)		Disease control (%)	1000-grain weight* (g)		Dried grain weight* (g/plot)		Average yield (q/ha)		increase in yield (%)
	Unstripped	Stripped		Unstripped	Stripped	Unstripped	Stripped	Unstripped	Stripped	
Punjab Sweet corn-I	39.26 [a]	17.13 [a]	56.37	131.58 [b]	155.32 [c]	1733 [b]	2333 [a]	24.07	32.40	34.61
PMH 4	55.83 [b]	16.85 [a]	69.81	267.13 [c]	308.18 [a]	5133 [c]	6800 [b]	71.29	94.44	32.47
PMH 1	33.89 [a]	12.22 [a]	63.94	291.56 [d]	318.90 [a]	6200 [a]	7100 [b]	86.11	98.61	14.52
PMH 5	54.26 [b]	19.72 [a]	63.66	209.83 [a]	247.17 [b]	3367 [bc]	4700 [c]	46.76	65.28	39.60
Buland	50.00 [b]	20.83 [a]	58.34	222.33 [a]	256.73 [b]	4767 [c]	5733 [c]	66.21	79.62	20.25

*Values within experiments followed by the same letter are not significantly different at P = 0.05, * Mean of three replications

Table 78. Efficacy of leaf stripping on severity of BLSB at Pantnagar

Variety	PDI		Disease Control (%)	Yield (q/ha)		Increase in Yield (%)
	Unstripped	stripped		Unstripped	stripped	
Amar	100.00	91.67	8.33	16.17	17.22	6.49
Kanchan	100.00	97.22	2.78	14.64	15.22	3.96
Gaurav	100.00	96.11	3.89	20.43	20.67	1.17
PSM 4	100.00	92.22	7.78	20.75	21.43	3.28
CM 600	100.00	98.33	1.67	13.43	14.29	6.40
SEM	**a**	**0.25**		**a**	**0.43**	
	b	**0.16**		**b**	**0.27**	
	a × b	**0.35**		**a × b**	**0.61**	
CD (0.5)	**a**	**0.71****		**a**	**1.25****	
	b	**0.45****		**b**	**0.80****	
	a × b	**1.01NS**		**a × b**	**1.78NS**	
CV %		**0.71**			**7.04**	

Table 79. Efficacy of leaf stripping on severity of BLSB at Godhra

Entries	PDI		Disease control (%)	Grain yield (q/ha)	Increase over control (%)
	Unstripped	Stripped			
Narmada Moti	63.89 (51.98)	38.89 (37.86)	39.13	28.88	10.44
GM-6	58.33 (50.17)	25.00 (30.13)	57.14	33.65	28.68
CML-307	80.56 (62.70)	47.22 (42.57)	41.38	26.15	0.00
GM-4	63.89 (51.63)	27.78 (31.04)	56.52	30.54	16.79
S. Em±	1.54	0.67	-	0.19	-
C. D (0.05%)	6.91	3.00	-	0.85	-
C.V %	4.04	2.69	-	0.93	-

***Four rows of each variety.**

Results: The *kharif* 2016 results revealed that all the stripped plants were found significantly superior over unstripped. Among the stripped plant with hybrid variety GM-6 was found best in checking banded leaf and sheath blight (BLSB) disease severity (25.00%) resulted in highest grain (33.65 q/ha) with 28.68% yield increase over unstripped with susceptible variety CML-307.

Table 80. Efficacy of bioagents and botanicals in the management of maize cyst nematode, *Heterodera zeae*

Date of sowing	:	07.07.2016	Initial Nematode Population	:	750 larvae/100 cc soil
Soil type	:	Clay loam	Replication	:	3
Crop variety	:	Pratap Makka--3	Plot size	:	7.50 sq. m
Design	:	R.B.D.	Date of harvesting	:	25.10.2016

Treatments	Nematode Population						Grain Yield	
	Cyst / 5 g root	Per cent reduction over check	Cyst/ 100 cc soil	Per cent reduction over check	Final larvae/ 100 cc soil	Per cent reduction over check	q/ha	Per cent increase over check
Paecilomyces lilacinus 2 % w/w + Aak leaf 1 q/ha	19.00	25.98	22.33	23.00	946.67	15.48	34.71	19.81
Pochonia chlamydosporia 2 % w/w + Aak leaf 1 q/ha	16.33	36.38	19.00	34.48	800.00	28.57	38.25	32.03
Trichoderma harzianum 2 % w/w + Aak leaf 1 q/ha	21.00	18.19	24.33	16.10	980.00	12.50	33.49	15.60
Paecilomyces lilacinus 2 % w/w + Lantana leaf 1 q/ha	15.33	40.28	18.00	37.93	763.33	31.85	40.49	39.77
Pochonia chlamydosporia 2 % w/w+ Lantana leaf 1 q/ha	14.00	45.46	16.33	43.69	693.33	38.10	41.69	43.91
Trichoderma harzianum 2 % w/w+ Lantana leaf 1 q/ha	17.00	33.77	20.33	29.89	850.00	24.11	35.77	23.47
Trichoderma viride 2 % w/w + Neem cake 2 q/ha	12.00	53.25	14.33	50.59	590.00	47.32	42.81	47.77
Untreated check	25.67	----	29.00	----	1120.00	----	28.97	----
SEm ±	**1.31**	**----**	**1.65**	**----**	**58.83**	**----**	**1.25**	**----**
CD at 5%	**3.98**	**----**	**5.02**	**----**	**178.45**	**----**	**3.78**	**----**

Table 81. Effect of various soil types on infestation by cyst nematode, *H. zeae* on different maize varieties

Date of sowing	:	07.07.2016	Initial Nematode Population	:	780 larvae/100 cc soil
Soil type	:	Clay loam	Replication	:	5
Plot size	:	Line sowing (3.00 m)	Crop Geometry	:	60 cm*20 cm
Plant Population	:	83333 plants / ha	Date of observation	:	19.10.2016
Date of harvesting	:	28.10.2016	*Check	:	Medium soil

Name of varieties	Soil type	Nematode Population						Grain Yield	
		Cyst / 5 g root	Per cent increase over check*	Cyst/ 100 cc soil	Per cent increase over check*	Final nematode larvae/ 100 cc soil	Per cent increase over check*	q/ha	Per cent reduction over check*
Pratap Hybrid Maize --3	Light soil	6.60 (3--9)	57.14	13.20 (9--18)	43.48	1300.00 (1000--1600)	42.23	37.31	13.31
	Medium soil*	4.20 (1--7)	------	9.20 (5--15)	------	914.00 (670--1180)	------	43.04	------
Pratap Makka--9	Light soil	11.20 (7--16)	33.33	20.00 (16--25)	56.25	1930.00 (1680--2330)	42.96	30.80	16.24
	Medium soil*	8.40 (5--13)	------	12.80 (8--17)	------	1350.00 (1200--1600)	------	36.77	------
Pratap Makka --3	Light soil	40.60 (36--48)	27.67	36.20 (29--44)	21.48	2460.00 (2030--2820)	39.30	21.50	20.90
	Medium soil*	31.80 (28.36)	------	29.80 (22--36)	------	1766.00 (1470--2000)	------	27.18	__

ENTOMOLOGY

ET3	**Monitoring of *Helicoverpa armigera* by pheromone traps (Kharif, Rabi & Spring) at Delhi, Hyderabad, Kolhapur, Karnal, Ludhiana and Udaipur**	**4**	**E20**
ET4	**Evaluation of insecticides against *C. partellus* (3rd Year*)* at Delhi, Hyderabad, Kolhapur, Karnal, Ludhiana and Udaipur**		**E21**
	a. Efficacy of insecticides against *Chilo partellus* in terms of LIR (1-9 scale) during *Kharif,* 2016	**5.1**	**E21**
	b. Efficacy of insecticides against *Chilo partellus* in terms of grain yield(q/ha) during *Kharif,* 2016	**5.2**	**E22**
ET5	**Evaluation of bio-pesticides against *C. partellus* (1st Year)- All locations Delhi, Hyderabad, Kolhapur, Karnal, Ludhiana and Udaipur**		**E23**
	a. Efficacy of Bio-pesticides against *Chilo partellus* in terms of Leaf Injury rating during *Kharif,* 2016	**6.1**	**E23**
	b. Efficacy of Bio-pesticides against *Chilo partellus* in terms of grain yield (q/ha) during *Kharif,* 2016	**6.2**	**E24**

ABBREVIATIONS USED

AVT- Advanced Varietal Trial

DAG- Days After Germination

DAI- Days After Infestation

EC- Emulsifiable Concentrate

LIR- Leaf Injury Rating

R- Resistant

MR- Moderately Resistant

S- Susceptible

NG- No Germination

SC- Suspension Concentrate

WG- Wettable Granules

Executive Summary

ET1: Evaluation of AICRP trial entries against stem borers under artificial infestation

During Kharif 2016, AICRP trials of 24, 17 and 9 entries of different maturity period, QPM speciality corn and inbreds were evaluated at **North West Plain Zone** (represented by Delhi, Karnal and Ludhiana), **North East Plain Zone** (Dholi), **Peninsular Zone** (Kolhapur, Hyderabad) and **Central Western Zone** (Udaipur) against *Chilo partellus* under artificial infestation.

The entries were sown in two rows of three metres each. Sixteen seeds were sown and twelve plants were retained in each row ten days after germination. When the plants were 12-14 days-old, 10-12 black-headed eggs of *C. partellus* laid on butter paper were pinned in the leaf whorl. The eggs hatched within few hours and the neonate larvae nibbled on the leaves and found their way in the leaf whorl and later into stem. The plants were observed 35 days after infestation for level of damage by recording the leaf injury rating on 1-9 scale.

LIR	Plant Symptoms
1	Plants showing no infestation symptom
2	1-2 leaves with pinholes
3	3-4 leaves with holes
4	1/3 leaves showing infestation symptoms
5	Half the number of the leaves with infestation symptoms
6	2/3 leaves with infestation symptoms and the holes becoming windows
7	Leaves with long window and plant growth is stunted
8	Almost all leaves displaying heavy infestation and plant growth is stunted
9	Dead heart formation observed

The resistant, moderately resistant and susceptible entries are defined by LIR 1-3, >3-6 and >6-9 respectively.

Resistant entries of different maturity groups: The following entries registered resistant reaction against *C. partellus*

- *Full Season Maturity group*: Out of 24 maize entries of late maturity group screened under artificial infestation against *C. partellus*, three entries, KMH-2852 (2.3), DKC 9167 92.7) and ADV 7022 (2.9) were found resistant at North East Plain Zone while CMH 12-686 (2.8), DASMH 111 (2.6) and Seed tech 2324©(3.0) were found resistant at Central Western Zone. None of the entries were found resistant at NW Plain Zone and Peninsular Zone.

- *Medium Maturity group*: Among medium maturity group, three entries IIMRNH2015-4 (2.7), JH 13347 (2.3), PE 621 (2.7) at NE Plain Zone and JKMH 4103(1.8), CP 201 (2.4), JH 31605 (2.5) at CW Zone were found to be resistant to *C. partellus*.
- *Early Maturity group*: Among the early maturity entries screened under artificial infestation against *C. partellus*, no entry had shown resistant reaction to this borer in North West Plain Zone and Peninsular Zone. JH 31785(2.5) in North East Plain Zone and DMRH 1305 (2.8) in Central Western Zone respectively showed resistant reaction to *C. partellus*
- *QPM:* Out of 27 QPM entries evaluated, four entries at NE plain zone IIMRQPMH 1501(2.7), FQH 106 (2.3), IIMRQPMH 1502 (2.5) and IIMRQPMH 1602 (2.8) and seven entries KDQH-51 (2.9), IIMRQPMH 1601 (2.7), IIMRQPMH 1504 (1.9), IIMRQPMH 1502 (2.6), REHQ2014-11 (2.8), HQPM 1 (C) (2.6) and HQPM 5 (C) (1.9) at CW Zone were found to be resistant to *C. partellus*. None of the entries were found resistant at NW Plain Zone and Peninsular Zone.

Speciality Corn: The following entries registered resistant reaction against *C. partellus*

- *Pop Corn: Baby Corn:* Among 14 pop corn entries evaluated, three entries IHPC- 1203 (2.7) and SJPC 1 (2.7) were found to be resistant at NE Plain Zone while popcorn (Jaya Shree) (2.8) and IHPC- 1203 (2.5) were found to be resistant at CW Zone. None of the entries were found to be resistant at NW Plain Zone and Peninsular Zone.
- Baby Corn: Out of 14 baby corn entries evaluated, two entries BVM-2 (2.2), IMHB 1531(2.3) were found to be resistant at NE plain Zone and another two entries AH-7043 (3.0) and IMHB 1538 (2.8) were found to be resistant at Peninsular Zone. In CW western Zone, the following entries were found to be resistant. AH-5021 (2.1), AH-7043 (2.5), IMHB 1538 (3.0) and IMHB 1539 (2.6).
- *Sweet Corn*: Out of 13 sweet corn entries evaluated against *C. partellus*, Madhula (2.7), BSCH 6 (2.3) were found to be resistant at NE Plain Zone while only one entry ASKH 4 (2.3) was found to be resistant at CW Zone. None of the entries were found to be resistant at NW Plain Zone and Peninsular Zone.

ET 2: Evaluation of inbred lines against *Chilo partellus* under artificial infestation (2nd year) at Delhi, Dholi, Hyderabad, Kolhapur, Karnal, Ludhiana and Udaipur

- Out of 38 inbred lines screened against *C. partellus*, the following lines IC584585 (3.0), EC646047 (2.8), E62 (2.9), E63 (2.6), IIMR SBT POOL (2.9), IIMR PBT SYNTHECTIC (2.7) were found to be resistant at NW Plain Zone. The following lines

IC565897 (2.3), IC584542 (2.5), AEB(Y) 34-1-1 (2.7), AEB(Y) 34-1-2 (2.6), EC440623 (2.7) were found to be resistant at NE Plain Zone. In Peninsular Zone, only one line DMR E63 (2.8) was found to be resistant. The following lines AEB(Y) 34-1-1 (2.5), AEB(Y) C538-1 (1.5), EC4400414 (2.7), EC440612 (2.3), E63 (2.7), DMR E63 (1.3) were found to be resistant at CW Zone.

ET 3. **Monitoring of *Helicoverpa armigera* by pheromone traps**

The population of *Helicoverpa armigera* was monitored from tasseling till harvesting stage by installing pheromone traps during kharif 2016. The traps were regularly observed and number of moths per trap was recorded at weekly interval. The moths started appearing in third week of August and continued till first week of December at Hyderabad with maximum number of moths i.e. 4.50/trap/week noticed in 3rd week of October. Moth appearance was observed in fourth week of August at Delhi and continued upto third week of October with maximum number of moths 6.88/trap/week noticed in third week of September. At Karnal, the moths appeared from first week of September and continued upto third week of October. Maximum number of moths (11.12/trap/week) was recorded during third week of September. Moths emergence were observed from second week of September at Udaipur with maximum activity (3.0 /trap/week) recorded during first week of October. The maximum catches of 23.67 were recorded in spring sown maize at Ludhiana in the 1st week of May.

ET 4. Evaluation of insecticides against *C. partellus (3rd Year)* at Delhi, Hyderabad, Kolhapur, Karnal, Ludhiana and Udaipur

- The newer insecticide molecules, Chlorantaniliprole 20SC (at 0.2 and 0.3ml/l) and Flubendiamide 480SC (at 0.1 and 0.2ml/l) were found effective in the management of *C. partellus*.

ET 5 Evaluation of bio-pesticides against *C. partellus (1st Year)* at Delhi, Hyderabad, Kolhapur, Karnal, Ludhiana and Udaipur

- The efficacy of three *Beauveria bassiana* isolates Bb-5a, Bb-23, Bb-45, *Metarhizium* isolate Ma-35, Delffin 5 WG and Neem formulation along with state recommended insecticide were evaluated at AICRP centres during kharif 2016. Delfin 5WG followed by neem formulation were found to be most effective based on leaf injury rating observed at 25 days after infestation while state recommended chemical followed by Delfin 5WG resulted in maximum yield return as compared to control.

ET 1: Evaluation of maize AICRP trails under artificial infestation for AVT I and II

Table 1.1: Zone wise summary of AICRP trials for resistance against *Chilo partellus* in each maturity group during Kharif, 2016

Level of susceptibility	Full season maturity		Medium maturity		Early maturity
	AVT I	AVT II	AVT I	AVT II	AVT I & AVT II
North West Plain Zone					
Resistant	0	0	0	0	1
Moderately Resistant	16	8	11	6	6
Susceptible	0	0	0	0	1
North East Plain Zone					
Resistant	3	0	2	1	1
Moderately Resistant	10	6	6	3	7
Susceptible	3	2	3	2	0
Peninsular Zone					
Resistant	0	0	0	0	0
Moderately Resistant	6	4	8	6	7
Susceptible	10	4	3	0	1
Central Western Zone					
Resistant	1	1	1	2	1
Moderately Resistant	13	7	9	4	6
Susceptible	3	0	1	0	1

(The figures indicate number of entries)

Table 1.2: Zone wise summary of maize AICRP trials for resistance against *Chilo partellus* for specialty corn group during Kharif, 2016

Level of susceptibility	QPM	Pop corn	Baby corn	Sweet corn
North West Plain Zone				
Resistant	0	0	0	0
Moderately Resistant	27	14	14	13
Susceptible	0	0	0	0
North East Plain Zone				
Resistant	4	1	2	1
Moderately Resistant	13	9	6	8
Susceptible	10	4	6	4
Peninsular Zone				
Resistant	0	0	2	0
Moderately Resistant	6	10	10	5
	QPM	**Pop corn**	**Baby corn**	**Sweet corn**
Susceptible	21	4	2	8
Central Western Zone				
Resistant	8	2	3	1
Moderately Resistant	17	11	10	11
Susceptible	2	1	1	1

(The figures indicate number of entries)

Table 2.1: Screening of maize AICRP entries of Full Season Maturity (AVT I) group against *Chilo partellus* during Kharif, 2016

Entry No	Name of the Entry	Mean Leaf Injury Rating (LIR on 1-9 scale)									
		North West Plain Zone				North East Plain Zone	Peninsular Zone			Central Western Zone	Over all Mean
		Delhi	Karnal	Ludhiana	Mean	Dholi	Kolhapur	Hyderabad	Mean	Udaipur	
1	**DKC8161 (IP8570)**	5.2	3.5	5.5	4.73	4.2	6.6	5.0	5.80	4.8	4.98
2	**KMH-2852**	3.1	6.1	5.3	4.83	2.3	7.8	7.1	7.45	5.8	5.37
3	**C.P 802**	3.6	4.2	5.3	4.37	5.2	6.2	5.7	5.95	7.2	5.37
4	**PM15103L**	2.7	4.0	5.0	3.90	4.6	3.2	4.6	3.90	5.7	4.27
5	**DKC9164 (IP9002)**	4.7	2.8	4.4	3.97	5.0	6.3	4.9	5.60	6.5	4.96
6	**PM15104L**	2.8	4.7	4.9	4.13	4.8	2.7	6.4	4.55	5.6	4.58
7	**DKC9163 (IP8703)**	4.3	4.0	5.0	4.43	5.0	3.1	6.5	4.80	5.9	4.85
8	**VNR-31565 (IMR-143)**	4.7	4.4	5.0	4.70	5.2	6.8	6.7	6.75	6.0	5.56
9	**SMH-3902**	5.3	2.9	4.5	4.23	6.5	3.7	6.0	4.85	6.0	5.00
10	**CMH12-686**	3.6	4.3	4.0	3.97	6.8	7.3	6.1	6.70	2.8	5.01
11	**DKC9167 (IP8708)**	5.3	2.5	5.0	4.27	2.7	5.0	7.3	6.15	4.1	4.57
12	**SYN516753**	3.0	3.9	4.9	3.93	6.1	7.9	5.7	6.80	4.8	5.20
13	**DAS-MH-111**	3.5	6.0	4.7	4.73	5.1	7.6	4.9	6.25	2.6	4.93
14	**ADV 7022**	5	3.5	4.0	4.17	2.9	7.5	8.8	8.15	3.9	5.10
15	**CMH12-688**	3.2	4.1	5.0	4.10	5.0	3.7	7.0	5.35	3.9	4.56
16	**BL 103**	4.4	4.2	5.4	4.67	4.6	7.4	8.0	7.70	6.7	5.82

Cont..

Table 2.1: Screening of maize AICRP entries of Full Season Maturity (AVT II) group against *C. partellus* during Kharif, 2016

AVT-II Late											
Entry No	**Name of the Entry**	**Mean Leaf Injury Rating (LIR on 1-9 scale)**									
		North West Plain Zone				**North East Plain Zone**	**Peninsular Zone**			**Central Western Zone**	**Overall Mean**
		Delhi	Karnal	Ludhiana	Mean	Dholi	Kolhapur	Hyderabad	Mean	Udaipur	
17	**HT 51412616**	5.1	4.6	5.1	4.93	5.0	5.2	4.8	5.00	3.7	4.81
18	**DKC9151 (IN8902)**	3.1	3.4	5.4	3.97	5.1	3.7	5.8	4.75	4.5	4.43
19	**DMH192**	4.8	4.1	5.1	4.67	4.9	6.0	6.0	6.00	3.4	4.91
20	**ADV 0990296**	3.1	3.4	4.8	3.77	5.8	6.7	6.1	6.40	5.1	5.01
21	**KH-2192**	3.1	4.7	4.0	3.93	6.4	6.6	5.8	6.20	5.1	5.11
22	**PMH 1 (C)**	4.8	4.2	4.6	4.53	5.5	6.8	5.4	6.10	4.0	5.05
23	**Seed tech 2324(C)**	3.1	2.9	5.2	3.73	6.6	6.6	6.3	6.45	3.0	4.84
24	**Bio - 9681(C)**	3.8	3.6	5.2	4.20	4.7	4.3	6.0	5.15	3.3	4.43
	CM500 R Check	3.8	-	4.8		-	4.9	5.3		-	
	CM 202 S Check	5.4	-	6.8		-	7.6	8.0		-	
	CD (p=0.05)	0.20	0.19	0.15		0.37	0.39	0.37		NS	NS

Table 2.2: Screening of maize AICRP entries of Medium Maturity (AVT I) group against *C. partellus* during Kharif, 2016

Entry No	Name of the Entry	Mean Leaf Injury Rating (LIR on 1-9 scale)									Over all Mean
		North West Plain Zone				North East Plain Zone	Peninsular Zone			Central Western Zone	
		Delhi	Karnal	Ludhiana	Mean	Dholi	Kolhapur	Hyderabad	Mean	Udaipur	
1	**IIMRNH 2015-4**	3.2	6.9	5.5	5.20	2.7	3.2	4.0	3.60	3.4	4.13
2	**BL 107**	3.3	4.8	5.4	4.50	6.0	5.2	8.9	7.05	4.1	5.40
3	**KMH-13-5**	3.1	2.7	5.6	3.80	5.7	6.3	5.9	6.1	3.5	4.70
4	**JH 13348**	3.3	4.3	5.9	4.50	6.2	3.0	5.6	4.3	3.5	4.56
5	**LMH 615**	4.6	5.0	6.1	5.23	6.7	3.1	6.8	4.95	4.4	5.25
6	**BL 106**	3.1	4.8	4.3	4.07	5.6	4.7	6.7	5.7	3.5	4.68
7	**VaMH 12014**	2.6	3.9	5.8	4.10	5.4	5.3	6.3	5.8	3.6	4.72
8	**JKMH 4103**	3.0	4.5	5.3	4.27	4.0	3.2	7.0	5.1	1.8	4.12
9	**JH 13347**	4.6	5.0	5.9	5.17	2.3	2.6	6.9	4.75	3.4	4.40
10	**HM15206**	2.9	4.4	4.2	3.83	6.5	2.9	5.9	4.4	7.3	4.90
11	**HM15207**	2.8	4.4	5.3	4.17	4.9	6.5	6.4	6.45	4.3	4.94

Cont..

Table 2.2: Screening of maize AICRP entries of Medium Maturity (AVT II) group against *C. partellus* during Kharif, 2016

AVT-II Medium											
Entry No	**Name of the Entry**	**Mean Leaf Injury Rating (LIR on 1-9 scale)**									
		North West Plain Zone				**North East Plain Zone**	**Peninsular Zone**			**Central Western Zone**	**Overall Mean**
		Delhi	Karnal	Ludhiana	Mean	Dholi	Kolhapur	Hyderabad	Mean	Udaipur	
12	**PE 621**	4.0	5.7	5.7	5.13	2.7	3.3	5.4	4.35	3.1	4.28
13	**PE 622**	3.4	2.7	5.7	3.93	5.8	3.1	4.1	3.6	3.5	4.05
14	**JH31605**	3.8	4.9	5.6	4.77	5.1	3.5	5.3	4.4	2.5	4.40
15	**C.P 201**	3.3	2.8	5.7	3.93	5.6	3.2	4.3	3.75	2.4	3.90
16	**JKMH 4848**	3.5	4.3	5.5	4.43	7.1	3.3	4.2	3.75	3.9	4.56
17	**Bio 9637(C)**	3.2	6.1	5.5	4.93	6.1	2.8	6.40	4.6	5.7	5.12
	CM500 R Check	3.1	-	5.0		-	4.1	4.0		-	
	CM 202 S Check	7.0	-	6.9		-	6.8	8.9		-	
	CD (p=0.05)	0.28	0.18	0.13		0.33	0.33	0.30		NS	NS

Table 2.3: Screening of maize AICRP entries of Early Maturity group against *C. partellus* during Kharif, 2016

Entry No	Name of the Entry	Mean Leaf Injury Rating (LIR on 1-9 scale)									
		North West Plain Zone				North East Plain Zone	Peninsular Zone			Central Western Zone	Over all Mean
		Delhi	Karnal	Ludhiana	Mean	Dholi	Kolhapur	Hyderabad	Mean	Udaipur	
1	**KMH-13-15**	3.3	4.6	5.5	4.47	4.8	6.8	4.8	5.80	5.4	5.04
2	**FH 3754**	3.8	4.5	4.0	4.10	5.1	4.6	4.1	4.35	4.8	4.43
3	**JH 31785**	4.0	3.9	5.5	4.47	2.5	3.3	5.6	4.45	8.0	4.69
4	**JKMH 4222**	3.6	3.8	4.8	4.07	4.5	4.6	5.5	5.05	5.1	4.57
5	**AH-7006**	4.5	6.1	5.6	5.40	5.1	-	6.3	6.30	4.3	5.33
6	**DMRH 1305**	3.5	2.8	5.1	3.80	4.1	3.9	4.6	4.25	2.8	3.85
7	**PMH-5(C)**	3.4	4.6	5.2	4.40	5.2	6.6	3.4	5.00	3.6	4.59
8	**Prakash(C)**	3.7	4.1	5.2	4.33	5.3	4.7	4.1	4.40	5.6	4.70
	CM500 R Check	-	-	4.6		-	5.1	-		-	
	CM 202 S Check	-	-	6.7		-	7.5	-		-	
	CD (p=0.05)	NS	0.17	0.21		NS	0.42	NS		NS	NS

Table 2.4: Screening of maize AICRP entries of QPM against *C. partellus* during Kharif, 2016

Entry No	Name of the Entry	Mean Leaf Injury Rating (LIR on 1-9 scale)									
		North West Plain Zone				North East Plain Zone	Peninsular Zone			Central Western Zone	
		Delhi	Karnal	Ludhiana	Mean	Dholi	Kolhapur	Hyderabad	Mean	Udaipur	Over all Mean
1	**QPM-MH-27**	3.6	4.6	3.2	3.80	6.3	7.7	5.1	6.40	4.7	5.04
2	**IIMRQPMH 1501**	3.9	4.0	4.6	4.17	2.7	7.4	8.1	7.75	5.5	5.18
3	**VEHQ-16-1**	3.2	3.6	3.1	3.30	5.5	8.3	6.0	7.15	5.2	5.00
4	**IMHQPM 1530**	5.1	3.9	5.8	4.93	6.7	8.7	6.0	7.35	5.7	5.99
5	**IIMRQPMH 1608**	3.9	3.7	4.4	4.00	5.3	7.6	4.5	6.05	5.7	5.02
6	**IIMRQPMH 1605**	3.0	4.5	5.7	4.40	6.5	6.5	5.9	6.20	3.3	5.05
7	**IIMRQPMH 1603**	3.2	2.7	5.7	3.87	4.6	7.5	6.7	7.10	6.3	5.26
8	**FQH 106**	3.6	3.2	4.8	3.87	2.3	6.9	5.5	6.20	4.5	4.40
9	**IIMRQPMH 1606**	4.7	2.3	4.8	3.93	5.6	8.0	5.6	6.80	3.2	4.91
10	**IIMRQPMH 1508**	3.5	3.1	3.1	3.23	5.3	6.3	6.2	6.25	4.8	4.63
11	**KDQH-51**	3.5	3.3	4.6	3.80	5.0	2.8	6.1	4.45	2.9	4.03
12	**IIMRQPMH 1601**	3.8	3.8	4.8	4.13	5.9	7.9	7.6	7.75	2.7	5.24
13	**IIMRQPMH 1609**	4.0	4.0	5.2	4.40	6.4	7.0	6.7	6.85	4.2	5.37
14	**IIMRQPMH 1604**	4.4	2.9	5.3	4.20	6.7	5.3	7.1	6.2	4.7	5.21
15	**IIMRQPMH 1607**	3.1	4.8	5.1	4.33	5.8	5.8	6.9	6.35	3.0	4.95
16	**IIMRQPMH 1504**	3.8	3.3	5.1	4.07	6.3	3.1	6.2	4.65	1.9	4.25
17	**IIMRQPMH 1502**	2.5	3.3	5.4	3.73	2.5	6.0	6.5	6.25	2.6	4.12

Cont..

Table 2.4: Screening of maize AICRP entries of QPM against *C. partellus* during Kharif, 2016

Entry No	Name of the Entry	Mean Leaf Injury Rating (LIR on 1-9 scale)									
		North West Plain Zone				North East Plain Zone	Peninsular Zone			Central Western Zone	Over all Mean
		Delhi	Karnal	Ludhiana	Mean	Dholi	Kolhapur	Hyderabad	Mean	Udaipur	
18	**REHQ2014-11**	3.2	3.5	5.0	3.90	7.1	7.6	6.8	7.2	2.8	5.14
19	**IIMRQPMH 1610**	4.0	3.2	5.3	4.17	6.3	2.8	6.9	4.85	3.3	4.54
20	**IIMRQPMH 1602**	4.4	3.3	4.7	4.13	2.8	2.4	7.2	4.8	3.4	4.04
21	**BQPMH 16**	3.4	6.1	4.8	4.77	5.1	4.3	6.1	5.2	4.3	4.89
22	**Pratap QPM 1 (Check)**	4.8	3.3	6.0	4.70	6.0	6.8	5.5	6.15	6.4	5.56
23	**Vivek QPM 9 (C)**	4.1	4.3	5.0	4.47	5.2	6.8	6.3	6.55	4.8	5.22
24	**HQPM 1 (C)**	4.0	6.2	5.6	5.27	5.9	7.0	6.0	6.5	2.6	5.34
25	**HQPM 4 (C)**	3.7	2.5	5.6	3.93	6.7	2.5	5.9	4.2	6.0	4.71
26	**HQPM 5 (C)**	3.8	3.9	5.6	4.43	5.5	7.3	5.9	6.6	1.9	4.85
27	**HQPM 7 (C)**	3.6	2.7	5.1	3.80	6.2	7.8	5.7	6.75	5.1	5.18
	CM500 R Check	3.7	-	5.0		-	3.8	5.1		-	
	CM 202 S Check	-	-	6.5		-	7.1	8.1		-	
	CD (p=0.05)	NS	0.18	0.24		0.42	0.34	0.32		NS	0.27

Table 2.5: Screening of maize AICRP entries of Pop corn against *C. partellus* during Kharif, 2016

Entry No	Name of the Entry	Mean Leaf Injury Rating (LIR on 1-9 scale)									
		North West Plain Zone				North East Plain Zone	Peninsular Zone			Central Western Zone	Overall Mean
		Delhi	Karnal	Ludhiana	Mean	Dholi	Kolhapur	Hyderabad	Mean	Udaipur	
1	**DPCH-306**	2.2	3.5	4.9	3.53	4.6	6.2	5.1	5.65	5.1	4.53
2	**IMHP-1535**	2	3.8	4.9	3.57	5.6	7.6	6.3	6.95	6.1	5.19
3	**ROBUST 265**	2.6	3.8	5.9	4.10	5.6	2.3	5.7	4.0	4.9	4.41
4	**AP6005**	2.1	5.0	4.9	4.00	7.2	7.3	5.8	6.55	5.6	5.43
5	**IHPC-1201**	2.1	2.6	4.7	3.13	7.4	7.4	5.7	6.55	3.5	4.78
6	**ROBUST 427**	1.7	3.1	6.0	3.60	5.2	3.1	7.0	5.05	5.4	4.50
7	**IMHP 1540**	1.7	2.3	5.2	3.07	6.1	6.9	4.6	5.75	3.6	4.36
8	**IHPC-1203**	2	2.4	4.7	3.03	2.7	6.8	4.4	5.6	2.5	3.66
9	**Pop corn**	1.8	4.1	5.3	3.73	6.0	7.8	6.0	6.9	2.8	4.83
10	**SJPC1**	2.0	3.6	4.9	3.50	2.7	2.9	6.1	4.5	4.2	3.78
11	**DMRHP-1402**	2.5	3.6	5.1	3.73	6.7	4.4	7.4	5.9	5.7	5.06
12	**AP2202**	2.8	3.4	5.6	3.93	4.7	-	6.0	6.0	4.0	4.43
13	**MPC 1-15**	2.0	4.9	3.5	3.47	3.7	7.4	4.3	5.85	5.7	4.52
14	**VL Amber Popcorn (C)**	2.1	3.5	5.2	3.60	5.0	2.9	4.6	3.75	3.9	3.90
	CM500 R Check	2.4	-	4.6		-	3.8	4.0		-	
	CM 202 S Check	2.8	-	5.6		-	6.4	7.3		-	
	CD (p=0.05)	NS	0.15	NS		0.54	0.32	0.40		NS	NS

Table 2.6: Screening of maize AICRP entries of Baby corn against *C. partellus* during Kharif, 2016

Entry No	Name of the Entry	Mean Leaf Injury Rating (LIR on 1-9 scale)									
		North West Plain Zone				North East Plain Zone	Peninsular Zone			Central Western Zone	Over all Mean
		Delhi	Karnal	Ludhiana	Mean	Dholi	Kolhapur	Hyderabad	Mean	Udaipur	
1	**AH-5021**	3.9	6.1	5.0	5.00	6.5	2.8	6.1	4.45	2.1	4.65
2	**IMHB 1537**	3.4	3.2	4.8	3.80	6.0	7.2	5.0	6.1	3.3	4.72
3	**BVM-2**	3.5	4.2	5.2	4.30	2.2	4.0	6.3	5.15	4.0	4.20
4	**DMRHB 1305**	4.1	4.0	4.7	4.27	4.9	5.5	4.4	4.95	4.8	4.64
5	**AH-7043**	3.8	2.5	4.8	3.70	4.3	2.7	3.3	3.0	2.5	3.44
6	**IMHB 1525**	4.2	4.5	4.4	4.37	7.4	2.5	4.4	3.45	3.7	4.46
7	**IMHB 1538**	3.9	3.6	4.9	4.13	7.3	3.2	2.4	2.8	3.0	4.06
8	**MBC 11-15**	4.2	4.2	5.0	4.47	7.1	3.4	6.1	4.75	3.7	4.82
9	**IMHB 1529**	5.0	3.5	3.0	3.83	5.1	8.1	3.8	5.95	4.0	4.65
10	**IMHB 1531**	4.4	3.5	3.0	3.63	2.3	6.2	3.0	4.6	6.1	4.07
11	**GAYMH-1**	3.4	3.5	3.2	3.37	6.1	2.5	5.2	3.85	3.8	3.98
12	**IMHB 1539**	3.3	3.4	4.5	3.73	7.3	4.4	5.5	4.95	2.6	4.45
13	**IMHB 1532**	3.8	3.4	4.9	4.03	5.1	7.5	4.6	6.05	5.3	4.96
14	**HM 4 (C)**	4.3	2.2	4.9	3.80	4.5	3.0	6.1	4.55	3.3	4.06
	CM500 R Check	3.7	-	4.6		-	3.3	4.4		-	
	CM 202 S Check	6.5	-	5.2		-	6.3	8.1		-	
	CD (p=0.05)	NS	0.17	0.20		0.58	0.55	0.39		NS	NS

Table 2.7: Screening of maize AICRP entries of Sweet corn against *C. partellus* during Kharif, 2016

Entry No	Name of the Entry	Mean Leaf Injury Rating (LIR on 1-9 scale)									
		North West Plain Zone				North East Plain Zone	Peninsular Zone			Central Western Zone	Over all Mean
		Delhi	Karnal	Ludhiana	Mean	Dholi	Kolhapur	Hyderabad	Mean	Udaipur	
1	**FSCH 91**	3.3	2.6	5.4	3.77	5.7	7.9	5.7	6.8	4.6	5.06
2	**ASKH 4**	4.9	3.4	5.5	4.60	6.8	7.9	5.6	6.75	2.3	5.20
3	**VEHS-16-1**	4.9	2.9	5.0	4.27	6.1	3.0	6.1	4.55	4.2	4.63
4	**ASKH 6**	4.2	6.1	4.7	5.00	5.6	7.3	5.7	6.5	4.0	5.40
5	**FSCH 55***	5.1	2.5	5.2	4.27	5.8	8.2	8.5	8.35	5.4	5.83
6	**Madhula**	5.5	3.3	5.9	4.90	2.7	7.8	5.0	6.4	3.9	4.89
7	**BIO 4043**	4.3	3.4	5.5	4.40	5.5	8.2	6.2	7.2	4.6	5.39
8	**FSCH 75**	4.0	3.1	4.7	3.93	5.4	2.6	6.1	4.35	4.2	4.32
9	**BSCH 6**	4.6	3.5	6.3	4.80	2.3	7.4	7.0	7.2	5.2	5.22
10	**MITHAS**	3.8	5.0	5.8	4.87	6.4	7.5	5.1	6.3	5.4	5.60
11	**Misthi (C)**	4.4	3.3	5.1	4.27	6.3	2.7	6.9	4.8	4.0	4.69
12	**Madhuri Sweet Corn (C)**	5.3	3.7	5.73	4.91	5.7	2.9	6.4	4.65	7.0	5.26
13	**Priya Sweet Corn (C)**	4.4	3.8	5.5	4.59	4.7	3.0	6.10	4.55	5.9	4.80
	CM500 R Check	3.5	-	5.0		-	3.5	4.6		-	
	CM 202 S Check	4.5	-	5.6		-	6.9	7.6		-	
	CD (p=0.05)	NS	0.15	NS		0.34	0.31	0.26		NS	NS

ET 2 : Evaluation of inbred lines against *Chilo partellus* under artificial infestation (2nd year) at Dholi, Hyderabad, Kolhapur, Karnal, Ludhiana and Udaipur

Table 3.1: Screening of maize inbred lines against stem borer, *C. partellus* during Kharif 2016

Entry no	Pedigree	Mean Leaf Injury Rating (LIR on 1-9 scale)								
		North West Plain Zone			North East Plain Zone	Peninsular Zone			Central Western Zone	Over all Mean
		Karnal	Ludhiana	Mean	Dholi	Kolhapur	Hyderabad	Mean	Udaipur	
1	**IC56587**	-	5.9	5.9	4.5	-	8.35	8.35	5.5	6.06
2	**IC565880**	3.0	5.7	4.35	5.8	-	8.1	8.1	6.5	6.52
3	**IC565881**	3.6	6.1	4.85	6.1	-	5.4	5.4	9.0	6.65
4	**IC565888**	3.5	3.8	3.65	3.7	7.1	6.3	6.7	5.1	5.2
5	**IC565895**	4.8	3.7	4.25	5.5	4.3	4.9	4.6	8.8	5.44
6	**IC565897**	2.9	4.2	3.55	2.3	7.3	5.0	6.15	3.5	4.46
7	**IC571611**	3.4	3.0	3.2	5.5	8.8	8.3	8.55	6.6	6.44
8	**IC573120**	2.7	4.0	3.35	7.1	3.6	5.9	4.75	3.7	4.86
9	**IC584542**	3.4	4.4	3.9	2.5	7.8	8.5	8.15	5.2	5.68
10	**IC584585**	3.2	2.9	3.05	5.7	8.0	8.0	8	5.2	5.96
11	**IC584586**	3.2	3.9	3.55	5.8	7.1	6.2	6.65	-	5.75
12	**IC584587**	3.6	3.0	3.3	4.3	8.6	5.6	7.1	5.2	5.34
13	**AEB(Y) 34-1-1**	3.6	3.3	3.45	2.7	8.2	5.6	6.9	2.5	4.46
14	**AEB(Y) 34-1-2**	3.1	3.4	3.25	2.6	4.4	7.9	6.15	3.8	4.42
15	**AEB(Y) 34-1-3**	6.2	3.0	4.6	5.5	3.7	6.7	5.2	4.8	4.74
16	**AEB(Y) 34-1-4**	3.6	5.8	4.7	4.0	3.9	6.25	5.075	3.6	4.71
17	**AEB(Y) C538-1**	3.5	4.0	3.75	4.1	7.0	6.9	6.95	1.5	4.70
18	**BCK/ BC4**	6.5	4.8	5.65	4.3	4.9	7.7	6.3	3.4	5.02
19	**BPT 10**	3.4	5.5	4.45	7.4	5.9	5.6	5.75	4.2	5.72
20	**BPT 5**	3.9	4.4	4.15	5.3	8.8	7.3	8.05	4.8	6.12
21	**JCS789 CH1**	3.4	3.8	3.6	6.6	8.3	5.1	6.7	3.3	5.42
22	**JCS789 CH5**	3.7	4.6	4.15	4.9	8.9	9.0	8.95	4.8	6.44
23	**EC4400414**	3.1	4.3	3.7	6.2	7.4	6.1	6.75	2.7	5.34
24	**EC440612**	6.0	3.6	4.8	5.6	7.8	8.2	8	2.3	5.50
25	**EC440623**	2.5	5.3	3.9	2.7	7.1	8.7	7.9	5.5	5.86
26	**EC4442714**	3.8	4.8	4.3	5.6	5.7	7.1	6.4	3.0	5.24
27	**EC598465**	4.2	4.3	4.25	4.6	8.4	8.5	8.45	5.2	6.20
28	**EC618222**	4.9	4.1	4.5	5.3	3.1	8.8	5.95	5.6	5.38
29	**EC646047**	2.9	2.7	2.8	4.6	9.0	8.5	8.75	4.8	5.92
30	**EC656141**	3.6	2.7	3.15	6.3	4.6	9	6.8	3.5	5.22

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Table 3.1: Screening of maize inbred lines against stem borer, *C. partellus* during Kharif, 2016

Entry No	Pedigree	Mean Leaf Injury Rating (LIR on 1-9 scale)								
		North West North East Plain Zone			North East Plain Zone		Peninsular Zone		Central Western Zone	Over all Mean
		Karnal	Ludhiana	Mean	Dholi	Kolhapur	Hyderabad	Mean	Udaipur	
31	**E62**	2.5	3.4	2.95	4.0	8.2	6.5	7.35	3.7	5.16
32	**E63**	2.4	2.8	2.6	4.8	2.7	7.4	5.05	2.7	4.08
33	**CM500**	3.5	4.3	3.9	4.4	2.8	4.5	3.65	5.4	4.28
34	**CM300**	3.0	5.2	4.1	4.3	-	9	9	4.6	5.77
35	**DMR E63**	3.8	4.4	4.1	3.9	2.4	3.2	2.8	1.3	3.04
36	**IIMR SBT POOL**	2.8	3.0	2.9	6.0	3.5	5.3	4.4	3.3	3.98
37	**IIMR PBT POOL**	3.8	3.3	3.55	6.4	5.3	5.6	5.45	-	4.88
38	**IIMR PBT SYNTHECTIC**	2.5	3.0	2.75	5.7	3.3	6.65	4.975	-	4.23
	CD (p=0.05)	0.16	0.24		0.61	0.24	0.32		0.85	NS

Table 3.2. Screening of early genotypes against *C .partellus* under artificial infestation at WNC, Hyderabad

S.NO	PEDIGREE	Mean LIR(1-9 scale)	S.NO	PEDIGREE	Mean LIR(1-9scale)
1	CML-482⊗⊗	4.7	40	VQPM9-2-1-3-1⊗⊗	8.5
2	CML-425⊗⊗	4.8	41	HEY POOL-2011-12-5SC-3-1-1⊗⊗	6.67
3	CML-363⊗⊗	7.0	42	HEY POOL-2011-12-5SC-3-2-1⊗⊗	6.5
4	CML-342⊗⊗	4.5	43	HEY Pool-2011-5-2-3-2-1-1⊗⊗	6.5
5	CML-306⊗⊗	5.7	44	HEY Pool -2011-5-4-1-1-2-1⊗⊗	7.13
6	CML 292⊗⊗	6.25	45	HEY Pool -2011-5-4-1-2-1-1⊗⊗	6.0
7	CML-238⊗⊗	6.27	46	HEY Pool -2011-5-4-1-3-1⊗⊗	7.9
8	CML-224⊗⊗	7.0	47	HEY Pool -2011-5-4-1-3-2-1⊗⊗	4.75
9	CML-182⊗⊗	6.4	48	HEY Pool -2011-5-4-1-3-3-1⊗⊗	6.88
10	CML-73⊗⊗	6.67	49	HEY Pool -2011-5-6-1-2-1⊗⊗	6.67
11	CML-50⊗⊗	6.15	50	HEY Pool -2011-5-6-1-2-2-1⊗⊗	5.44
12	CML-43⊗⊗	8.0	51	HEY Pool -2011-12-1-1-3-3-1⊗⊗	7.67
13	CML 9⊗⊗	6.38	52	HEY Pool -2011-12-1-1-3-4-1⊗⊗	5.15
14	CM-501⊗⊗	9.0	53	HEY Pool -2011-12-1-2-1-1-1⊗⊗	4.29
15	CM-411⊗⊗	7.75	54	HEY Pool -2011-12-1-3-1-2-1⊗⊗	4.25
16	V 341⊗⊗	6.13	55	HEY Pool -2011-12-3-3-2-2-1⊗⊗	7.7
17	CM-212⊗⊗	7.43	56	HEY Pool -2011-12-3-3-3-1-1⊗⊗	3.89
18	CM 140⊗⊗	5.58	57	HEY Pool -2011-12-3-4-1-1⊗⊗	6.0
19	CM-137⊗⊗	6.7	58	HEY Pool -2011-12-3-4-1-2-1⊗⊗	6.27
20	CM-13⊗⊗	6.55	59	HEY Pool -2011-12-3-4-2-1⊗⊗	7.22
21	CM-11⊗⊗	8.4	60	HEY Pool -2011-12-3-5-1-1-1⊗⊗	7.09
22	PFSR-10116⊗⊗	7.25	61	HEY Pool -2011-12-3-5-2-3-1⊗⊗	6.22
23	PFSR-10109⊗⊗	5.67	62	HEY Pool -2011-12-3-7-2-3-1⊗⊗	7.9
24	PFSR-10104⊗⊗	4	63	HEY Pool -2011-15-1-3-2-1-1⊗⊗	4.78
25	PFSR-10102⊗⊗	7.5	64	HEY Pool -2011-15-1-4-2-2-1⊗⊗	6.0
26	NAI-175⊗⊗	6.11	65	HEY Pool -2011-15-1-4-3-1-1⊗⊗	6.2
27	NAI-147⊗⊗	7.33	66	HEY Pool -2011-15-3-2-1-1-1⊗⊗	4.25
28	IC-656142⊗⊗	4.0	67	HEY Pool -2011-15-3-6-1-2-1⊗⊗	4.31
29	IC-639445⊗⊗	5.71	68	HEY Pool -2011-15-3-6-1-3-1⊗⊗	5.9
30	INDIMYT 300A⊗⊗	6.75	69	HEY Pool -2011-15-3-6-2-1-1⊗⊗	5.14
31	VH 9-1-2-1-1⊗⊗	7.0	70	HEY Pool -2011-15-3-6-2-2-1⊗⊗	5.0
32	VH 9-2-1-1-1⊗⊗	5.7	71	HEY Pool -2011-15-3-7-3-1-1⊗⊗	4.4
33	VH 9-3-2-1⊗⊗	4.82	72	HEY Pool -2011-15-3-7-3-4-1⊗⊗	6.63
34	IC639445-1-3-1⊗⊗	8.5	73	HEY Pool -2011-15-6-1-2-2-1⊗⊗	5.0
35	IC639445-1-3-3-1⊗⊗	7.64	74	HEY Pool -2011-15-6-1-3-3-1⊗⊗	5.09
36	VQPM9-1-1-1-1⊗⊗	6.88	75	HEY Pool -2011-15-8-1-1-4-1⊗⊗	4.7
37	VQPM9-1-2-1⊗⊗	6.57	76	HEY Pool -2011-19-1-1-1-1-1⊗⊗	5.8
38	VQPM9-1-2-1-1⊗⊗	7.13	77	HEY Pool -2011-19-1-1-1-2-1⊗⊗	5.67
39	VQPM9-2-1-2-1⊗⊗	6.89	78	HEY Pool -2011-19-1-1-1-3-1⊗⊗	5.91

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Table 3.2. Screening of early genotypes against *C .partellus* under artificial infestation at WNC, Hyderabad

S.NO	PEDIGREE	Mean LIR (1-9 scale)	S.NO	PEDIGREE	Mean LIR (1-9 scale)
79	HEY Pool -2011-19-1-1-2-1-1⊗⊗	7.1	92	HEY Pool -2011-37-2-1-3-1-1⊗⊗	3.92
80	HEY Pool -2011-21-2-1-1-1-1⊗⊗	9.0	93	HEY Pool -2011-38-2-1-1-1-1⊗⊗	6.0
81	HEY Pool -2011-21-2-3-1-1⊗⊗	5.64	94	HEY Pool -2011-38-2-1-1-1-1⊗⊗	5.38
82	HEY Pool -2011-21-2-3-1-1-1⊗⊗	5.83	95	HEY Pool -2011-38-2-1-2-1-1⊗⊗	5.33
83	HEY Pool -2011-21-2-3-2-3-1⊗⊗	7.22	96	HEY Pool -2011-38-2-1-2-3-1⊗⊗	5.44
84	HEY Pool -2011-21-2-3-2-5-1⊗⊗	5.0	97	HEY Pool -2011-41-2-1-1-4-1⊗⊗	5.69
85	HEY Pool -2011-21-2-3-3-1-1⊗⊗	6.11	98	HEY Pool -2011-41-2-1-1-1-1⊗⊗	5.83
86	HEY Pool -2011-25-6-1-3-1-1⊗⊗	6.67	99	HEY Pool -2011-41-2-1-1-2-1⊗⊗	6.27
87	HEY Pool -2011-25-6-2-1-2-1⊗⊗	6.0	100	HEY Pool -2011-41-2-1-2-1-1⊗⊗	4.64
88	HEY Pool -2011-25-6-2-1-5-1⊗⊗	6.09	101	HEY Pool -2011-42-1-1-1-1⊗⊗	7.25
89	HEY Pool -2011-30-4-1-1-2-1⊗⊗	7.29	102	HEY Pool -2011-42-1-1-1-3-1⊗⊗	6.6
90	HEY Pool -2011-30-4-1-2-1-1⊗⊗	5.0	103	CM 500 R Check	4.7
91	HEY Pool -2011-30-4-1-2-2-1⊗⊗	6.45	104	CM 300 S check	9.0

ET 3. Monitoring of *Helicoverpa armigera* by pheromone traps (Kharif, Rabi & Spring) Delhi, Hyderabad, Kolhapur, Karnal, Ludhiana and Udaipur

Table 4. Mean number of *H. armigera* catches /trap during kharif 2016

Date of observation	Mean number of catches /trap						
	Delhi	Karnal	Ludhaina	Kolhapur	Hyderabad	Udaipur	Over all Mean
4th week of April	0	0	22.17	0	0	0	4.43
1st week of May	0	0	23.67	0	0	0	4.73
2nd week of May	0	0	16.90	0	0	0	3.38
3rd week of May	0	0	11.08	0	0	0	3.69
4th week of May	0	0	11.17	0	0	0	2.23
1st week of June	0	0	9.33	0	0	0	1.87
2nd week of June	0	0	4.83	0	0	0	0.97
3rd week of August	1.0	0	0	0	1.00	0	0.4
4th week of August	1.63	0	0	0	1.50	0	2.9
1st week of September	4.0	0.5	0	0	0	0	0.9
2nd week of September	6.88	7.25	0	0	2.00	0.5	3.32
3rd week of September	3.50	11.12	0	0	2.25	0	3.37
4th week of September	1.88	10.5	0	0	1.75	1.25	3.07
1st week of October	2.50	7.12	0	0	2.50	3.0	3.02
2nd week of October	2.75	1.87	0	0	2.50	0	1.42
3rd week of October	0	0.37	0	0	4.50	1.75	1.32
4rth week of October	0	0	0	0	3.00	0.5	0.7
1st week of November	0	0	0	0	3.50	0	0.7
2nd week of November	0	0	0	0	2.50	0	0.5
3rd week of November	0	0	0	0	0.50	0	0.1
4rth week of November	0	0	0	0	2.75	0	0.55
1st week of December	0	0	0	0	1.5	0	0.3
Total catch/trap	35.51	38.73	99.15	0	31.75	7	43.87

ET 4. Evaluation of insecticides against *C. partellus (3rd Year)* at Delhi, Hyderabad, Kolhapur, Karnal, Ludhiana and Udaipur

Table 5.1. Efficacy of insecticides against *C. partellus* in terms of LIR (1-9 scale) during *Kharif,* 2016

Treatments	Dose	Mean Leaf Injury rating on 1-9 Scale						
		Delhi	Karnal	Ludhiana	Kolhapur	Hyderabad	Udaipur	Over all Mean
Chlorantriniliprole 20 SC	0.3 ml/l	1.5	2.7	4.3	3.4	4.4	2.9	2.98
Chlorantriniliprole 20 SC	0.4 ml/l	1.8	2.3	3.7	3.4	3.7	3.0	3.23
Flubendiamide 480 SC	0.1 ml/l	1.9	2.9	4.7	3.1	4.2	2.6	2.81
Flubendiamide 480 SC	0.2 ml/l	1.3	2.6	3.8	3.2	3.6	2.4	3.96
Novaluron 10EC	0.75 ml/l	3.2	3.8	4.6	4.2	4.4	3.6	4.01
Novaluron 10EC	1 ml/l	3.5	4.0	4.2	4.4	4.2	3.8	3.81
Deltamethrin 2.8 EC	0.4 ml/l	1.7	3.1	5.2	4.8	4.7	3.4	3.31
Deltamethrin 2.8 EC	0.8 ml/l	1.3	3.0	3.8	4.7	4.0	3.1	4.07
State recommendation	-		2.9	5.4	3.8	-	4.2	4.08
Control	Water spray	4.7	6.17	6.56	6.60	6.1	6.9	6.1
CD (p=0.05)		0.20	0.10	NS	0.17	0.23	0.15	0.27

Cont..

ET 4. Evaluation of insecticides against *C. partellus (3rd Year)* at Delhi, Hyderabad, Kolhapur, Karnal, Ludhiana and Udaipur

Table 5.2. Efficacy of insecticides against *C. partellus* in terms of grain yield (q/ha) during *Kharif,* 2016

Treatments	Dose	Mean grain yield(q/ha)						
		Delhi	Karnal	Ludhiana	Kolhapur	Hyderabad	Udaipur	Over all Mean
Chlorantriniliprole 20 SC	0.3 ml/l	36.74	58.82	48.33	73.39	33.55	44.25	49.18
Chlorantriniliprole 20 SC	0.4 ml/l	45.45	60.18	52.47	74.25	34.88	44.10	51.88
Flubendiamide 480 SC	0.1 ml/l	36.44	56.76	50.50	73.75	39.11	45.36	50.32
Flubendiamide 480 SC	0.2 ml/l	43.67	58.12	53.15	75.25	39.33	46.20	52.62
Novaluron 10EC	0.75 ml/l	36.68	54.56	47.47	56.52	35.88	43.55	45.77
Novaluron 10EC	1 ml/l	38.75	55.35	51.62	54.89	30.44	42.58	45.60
Deltamethrin 2.8 EC	0.4 ml/l	40.88	56.95	47.05	54.28	31.11	43.75	45.67
Deltamethrin 2.8 EC	0.8 ml/l	40.71	57.92	52.82	57.29	34.22	44.45	47.90
State recommendation	-	-	58.64	46.40	57.96	-	40.20	50.80
Control	Water spray	34.31	50.80	41.70	49.66	24.33	37.55	39.72
CD (p=0.05)		6.28	2.05	0.17	0.45	0.09	1.23	8.17

ET 5. Evaluation of bio-pesticides against *C. partellus (1st Year)* at Delhi, Hyderabad, Kolhapur, Karnal, Ludhiana and Udaipur

Table 6.1.Efficacy of Bio-pesticides against *C. partellus* in terms of Leaf Injury rating during *Kharif,* 2016

Treatments	Dose	Mean Leaf Injury rating on 1-9 Scale						
		Delhi	Karnal	Ludhiana	Kolhapur	Hyderabad	Udaipur	Over all Mean
Bb-5a isolate of *Beauveria bassiana*, $1x10^8$ spores per ml	10 ml/l	4.1	5.1	4.7	4.7	5.1	5.0	4.78
Bb-23 isolate of *Beauveria*, $1x10^8$ spores per ml	10 ml/l	4.9	4.7	5.0	4.7	5.2	5.0	4.91
Bb-45 isolate of *Beauveria*, $1x10^8$ spores per ml	10 ml/l	4.2	5.6	5.1	5.1	5.0	5.6	5.1
Ma-35 isolate of *Metarhizium*, $1x10^8$ spores per ml	10 ml/l	5.3	5.3	5.4	5.0	5.2	5.4	5.26
Delffin 5 WG	5 gm/l	3.3	2.8	5.0	3.8	4.6	2.8	3.71
Neem formulation	5 ml/l	3.8	4.3	5.6	5.7	4.7	4.0	4.68
State recommendation	-	2.1	2.3	3.8	3.2	3.9	2.4	2.95
Untreated Control (Water)		5.7	5.9	6.7	6.7	6.2	6.8	6.33
CD (p=0.05)		0.29	0.13	0.19	0.19	0.19	0.12	0.13

Cont..

ET 5. Evaluation of bio-pesticides against *C. partellus (1st Year)* at Delhi, Hyderabad, Kolhapur, Karnal, Ludhiana and Udaipur

Table 6.2. Efficacy of Bio-pesticides against *C. partellus* in terms of grain yield (q/ha) during *Kharif,* 2016

Treatments	Dose	Mean grain yield (q/ha)						
		Delhi	Karnal	Ludhiana	Kolhapur	Hyderabad	Udaipur	Over all Mean
Bb-5a isolate of *Beauveria bassiana*, 1x10^8 spores per ml	10 ml/l	26.42	51.53	46.40	50.70	24.77	41.27	40.18
Bb-23 isolate of *Beauveria*, 1x10^8 spores per ml	10 ml/l	21.03	54.94	44.70	52.13	29.77	41.70	40.71
Bb-45 isolate of *Beauveria*, 1x10^8 spores per ml	10 ml/l	24.53	50.91	45.10	50.56	27.33	40.10	39.75
Ma-35 isolate of *Metarhizium*, 1x10^8 spores per ml	10 ml/l	14.69	50.78	43.90	51.73	25.88	40.90	37.98
Delffin 5 WG	5 gm/l	24.05	58.74	44.60	55.73	27.33	43.96	42.40
Neem formulation	5 ml/l	22.51	55.34	43.10	53.16	29.77	40.35	40.70
State recommendation	-	33.89	59.33	49.60	57.63	34.11	45.86	46.73
Untreated Control (Water)		17.48	50.51	38.40	42.63	21.00	37.05	34.51
CD (p=0.05)		6.95	2.4	0.17	NS	0.15	1.42	2.65

BIOCHEMISTRY

BIOCHEMISTRY

Maize is the third most important food crop of India. It is largely consumed as food by populations residing in the states of Rajasthan, Behar, Bengal, Gujarat, Madhya Pradesh, Chhattisgarhi, Punjab and Himachal Pradesh etc. The maize kernel is nutritionally rich as it contains high concentrations of starch (≅70%), protein (≅10%) and oil (2-4%). In fact maize is one of the most important natural multiplier of starch. Maize oil is rich in essential fatty acids making it highly suitable for human consumption. Yellow maize is also a rich source of provitamin-A components such as β-carotene and cryptoxanthin as well as anti-oxidants such as zeaxanthin and lutein etc. However, the nutritional quality of maize protein is considered poor due to the deficiency of two essential amino acids viz; tryptophan and lysine and excess of leucine. The protein quality improvement in maize was started in the year 1964 after the discovery of *opaque*-2 gene which is found to be associated with higher lysine and tryptophan content. The maize thus produced was called *opaque*-2 maize containing almost double the quantities of lysine and tryptophan. However, the *opaque*-2 maize possesses some negative effects as its endosperm is soft and chalky and is susceptible to insect and pest infestation. The soft maize thus produced was discarded soon by the farmers. The *opaque*-2 maize was further improved for its agronomic characteristics and is transformed to the present day quality protein maize (QPM). QPM refers to maize homozygous for the *opaque*-2 allele, with increased lysine and tryptophan concentrations and having hard or vitreous endosperm. QPM development requires regular support from biochemistry laboratory in order to precisely analyze the samples to identify suitable germplasm possessing the threshold concentration of protein quality along with required kernel characteristics. The biochemistry laboratory of Indian Institute of Maize Research is the central analytical facility which helps in developing nutritionally improved maize, particularly, quality protein maize (QPM) cultivars across India. The laboratory facilitates the biochemical analysis of maize samples received from IIMR as well as AICRP centres of ICAR and State Agricultural Universities. The laboratory is well equipped with state of the art instruments such as Ultra Performance Liquid Chromatography (UPLC), automated geltech, automatic solvent extractor system, vacuum concentrator, lypholyzer, NIRT, double beam spectrophotometer, fermenter, polarimeter, etc. The laboratory meets the requirement for analysis of various biochemical parameters such as protein quality (protein, tryptophan and lysine), carbohydrate profile (starch, sugar, amylose and amylopectin), oil content, carotenoids etc.

During the period of 2016–2017 a large number of samples received under quality programme of AICRP as well as of the institute were analyzed for protein quality and other quality parameters as desired. The detailed quality analysis is discussed as below.

EVALUATION OF MAIZE GERMPLASM FOR PROTEIN QUALITY UNDER AICRP QPM PROGRAMME

During 2016-17, entries (nos. 34) contributed from different centres under coordinated maize quality programme were grown at three locations viz: Ludhiana, Delhi and Almora. The selfed maize ears collected from individual entries from each centre were shared with two other centres and whole material (consisting of entries grown at each station) was analyzed separately at the above mentioned three locations for protein quality parameters viz: protein, tryptophan and

lysine. In order to assess the protein quality, the protein content as well as two essential amino acids such lysine and tryptophan are estimated in the endosperm of maize kernel which is deficient in essential amino acids due to high concentrations of zein proteins. For this purpose the kernels were screened on the basis of opaqueness to select the representative sample. The endosperm was separated, defatted and processed for protein quality such as protein tryptophan and lysine. As mentioned above the samples are analyzed at three laboratories and the data for protein, tryptophan and lysine is presented in Table 1, 2 and 3, respectively. For any samples to be categorized as QPM, the threshold concentration of lysine and tryptophan is to be ≥ 2.50 per cent and ≥ 0.6 per cent of endosperm protein. Most of the sample analyzed exhibited threshold concentrations of lysine and tryptophan across locations. However, some discrepancies are observed in the data received from Almora centre as the protein content of samples grown at Delhi was not reported, but the concentrations of lysine and tryptophan was expressed as per cent of protein. At the same time lysine content was not reported from Almora. The biochemical data generated by Almora centre is, therefore, incomplete. The biochemical data generated by Ludhiana and Delhi centres may be considered for promotion of entries to the next stage.

Table 1: Protein content (% of samples) of maize samples under coordinated QPM breeding programme

			Analyzed at											
S. No	Code	Name of entry	Ludhiana				Almora				Delhi			
			L	A	D	Mean	L	A	D	Mean	L	A	D	Mean
1	IIMR 901	IIMRQPMH 1608	7.84	7.67	8.67	8.06	10.26	10.68		10.47	10.2	10.9	10.3	10.47
2	IIMR902	REHQ2014-11	7.15	7.01	8.67	7.61	10.81	11.03		10.92	11	10.7	9.2	10.3
3	IIMR 903	FQH 106	7.32	6.89	7.71	7.31	10.79	10.71		10.75	7.4	8.8	9.8	8.67
4	IIMR 904	IIMRQPMH 1601	7.85	7.10	8.90	7.95	10.5	10.52		10.51	10.3	10.1	10.5	10.3
5	IIMR 905	IIMRQPMH 1502	8.15	7.37	7.45	7.66	9.86	10.1		9.98	9.8	9.6	10.9	10.1
6	IIMR 906	IIMRQPMH 1605	7.51	7.75	8.39	7.88	10.34	10.37		10.36	10.7	9.9	11.5	10.7
7	IIMR 907	IIMRQPMH 1606	8.04	9.99	9.06	9.03	10.52	10.79		10.66	9.2	10.1	10.7	10
8	IIMR 908	VEHQ-16-1	7.09	9.26	9.62	8.66	10.68	10.45		10.56	9.3	8.9	9.5	9.24
9	IIMR 909	IIMRQPMH 1607	7.38	10.02	9.15	8.85	10.22	10.40		10.31	7.7	9.2	9.9	8.93
10	IIMR 910	IIMRQPMH 1603	7.72	10.05	8.25	8.68	10.09	10.41		10.25	9.4	8.8	10	9.4
11	IIMR 911	BQPMH 16	7.55	10.40	7.61	8.52	10.66	10.25		10.46	10.5	9.2	11.4	10.37
12	IIMR 912	IIMRQPMH 1504	7.39	10.57	9.05	9	10.04	10.50		10.27	9.2	9.35	7.65	8.73
13	IIMR 913	IMHQPM 1530	7.16	7.49	8.77	7.81	10.22	10.7		10.46	10.1	9	10.9	10
14	IIMR 914	IIMRQPMH 1604	7.97	7.93	8.38	8.09	10.17	10.23		10.2	9.8	8.8	11.1	9.9
15	IIMR 915	IIMRQPMH 1610	6.95	7.7	7.58	7.41	10.98	10.62		10.8	6.8	7.2	9.8	7.93
16	IIMR 916	IIMRQPMH 1609	7.97	7.19	8.12	7.76	10.29	10.49		10.39	8.1	9.6	10.5	9.4
17	IIMR 917	QPM-MH-27	7.01	7.41	8.85	7.76	10.92	10.64		10.78	7.2	8.5	9.8	8.5
18	IIMR 918	IIMRQPMH 1602	7.51	7.51	8.23	7.75	10.4	10.71		10.56	8.8	8.8	10.5	9.37
19	IIMR 919	KDQH-51	8.37	7.71	7.96	8.01	10.06	10.57		10.32	10.5	10.3	10.8	10.53
20	IIMR 920	IIMRQPMH 1508	7.83	7.34	8.26	7.81	10.04	10.22		10.13	9.8	8.8	10.9	9.83
21	IIMR 921	IIMRQPMH 1501	7.50	6.69	7.37	7.19	10.84	11.46		11.15	9	8.5	10.7	9.4
22	IIMR 922	APQH9	8.09	7.67	8.92	8.23	10.77			10.77	8.8	10.1	8.8	9.23
23	IIMR 923	AQH4	7.68	7.76	8.38	7.94	10.28	10.4		10.34	8.9	8.4	9.2	8.83
24	IIMR 924	AQH8	7.26	7.82	8.26	7.78	10.14	10.6		10.37	8.3	9.3	8.9	8.83

25	IIMR 925	AQH9	7.47	7.67	8.28	7.8	10.26	10.09		10.18	9	10.5	10.5	10
26	IIMR 926	Pratap QPM Hybrid 1 (C)	7.90	7.92	8.01	7.94	10.02	10.51		10.27	8.5	8.3	10.1	8.97
27	IIMR 927	Vivek QPM 9 (C)	7.54	7.47	9.24	8.08	9.81			9.81	9	9	9.3	9.1
28	IIMR 928	HQPM 1 (C)	7.95	7.71	7.82	7.83	10.52	10.77		10.65	8.1	10.3	10.7	9.7
29	IIMR 929	HQPM 4 (C)	7.76	9.95	7.85	8.52	10.46	10.47		10.47	9.2	8.3	8.9	8.8
30	IIMR 930	HQPM 5 (C)	7.76	8.07	7.71	7.85	10.2	10.25		10.23	9.6	9.8	9.5	9.63
31	IIMR 931	HQPM 7 (C)	7.51	7.41	8.71	7.88	10.48	10.68		10.58	9	9	11.2	9.73
32	IIMR 932	HM8-C	7.55	7.48	8.64	7.89	10.42	10.57		10.50	9.2	10.1	9.5	9.6
33	IIMR 933	HM4-C	7.28	7.20	9.06	7.85	10.39	10.93		10.66	9.2	10.1	11.4	10.23
34	IIMR 934	HM9-C	7.62	8.24	8.22	8.03	10.15	10.29		10.22	8.9	8.8	9.1	8.93

L – Samples grown at Ludhiana center
A - Samples grown at Almora center
D - Samples grown at Delhi center

Table 2: Tryptophan content (% of endosperm protein) of maize samples under coordinated QPM breeding programme

			Analyzed at											
S. No	**Pedigree**	**Name of entry**	**Ludhiana**				**Almora**				**Delhi**			
			L	**A**	**D**	**Mean**	**L**	**A**	**D**	**Mean**	**L**	**A**	**D**	**Mean**
1	IIMR 901	IIMRQPMH 1608	0.61	0.58	0.63	0.61	0.73	0.59	0.84	0.72	0.6	0.68	0.83	0.70
2	IIMR902	REHQ2014-11	0.52	0.60	0.63	0.58	0.82	0.69	0.92	0.81	0.58	0.56	0.63	0.59
3	IIMR 903	FQH 106	0.74	0.71	0.69	0.71	0.72	0.66	0.78	0.72	1.13	1.09	0.84	1.02
4	IIMR 904	IIMRQPMH 1601	0.63	0.62	0.69	0.65	0.74	0.70	0.76	0.73	0.61	0.68	0.71	0.67
5	IIMR 905	IIMRQPMH 1502	0.76	0.65	0.66	0.69	0.75	0.66	0.71	0.71	0.75	0.72	0.72	0.73
6	IIMR 906	IIMRQPMH 1605	0.64	0.61	0.74	0.66	0.77	0.70	0.85	0.77	0.73	0.7	0.65	0.69
7	IIMR 907	IIMRQPMH 1606	0.63	0.63	0.61	0.62	0.73	0.74	0.85	0.77	0.7	0.67	0.58	0.65
8	IIMR 908	VEHQ-16-1	0.92	0.99	0.87	0.93	0.72	0.70	0.85	0.76	1.21	1.07	1.27	1.18
9	IIMR 909	IIMRQPMH 1607	0.66	0.63	0.79	0.69	0.74	0.66	0.87	0.76	0.83	0.74	0.6	0.72
10	IIMR 910	IIMRQPMH 1603	0.76	0.75	0.74	0.75	0.74	0.69	0.87	0.77	0.65	0.77	0.67	0.70

11	IIMR 911	BQPMH 16	0.67	0.62	0.70	0.66	0.72	0.70	0.87	0.76	0.62	0.65	0.54	0.60
12	IIMR 912	IIMRQPMH 1504	0.62	0.71	0.65	0.66	0.8	0.66	0.84	0.77	0.46	0.37	0.32	0.38
13	IIMR 913	IMHQPM 1530	0.57	0.63	0.60	0.60	0.79	0.63	0.73	0.72	0.65	0.69	0.73	0.69
14	IIMR 914	IIMRQPMH 1604	0.71	0.66	0.67	0.68	0.74	0.70	0.78	0.74	0.84	0.84	0.69	0.79
15	IIMR 915	IIMRQPMH 1610	0.67	0.67	0.73	0.69	0.73	0.76	0.80	0.76	1.19	1.17	0.88	1.08
16	IIMR 916	IIMRQPMH 1609	0.70	0.58	0.77	0.68	0.75	0.60	0.83	0.73	0.87	0.72	0.58	0.72
17	IIMR 917	QPM-MH-27	0.57	0.6	0.63	0.60	0.72	0.66	0.81	0.73	0.78	0.67	0.69	0.71
18	IIMR 918	IIMRQPMH 1602	0.68	0.66	0.62	0.65	0.76	0.68	0.85	0.76	0.81	0.89	0.69	0.80
19	IIMR 919	KDQH-51	0.63	0.60	0.69	0.64	0.75	0.64	0.83	0.74	0.56	0.64	0.72	0.64
20	IIMR 920	IIMRQPMH 1508	0.61	0.74	0.58	0.64	0.77	0.82	0.86	0.82	0.61	0.82	0.62	0.68
21	IIMR 921	IIMRQPMH 1501	0.59	0.78	0.71	0.69	0.79	0.70	0.77	0.75	0.72	0.75	0.58	0.68
22	IIMR 922	APQH9	0.62	0.56	0.61	0.60	0.79		0.77	0.78	0.89	0.91	0.83	0.88
23	IIMR 923	AQH4	0.88	0.70	0.55	0.71	0.73	0.69	0.79	0.74	1.01	1.12	1.21	1.11
24	IIMR 924	AQH8	0.72	0.77	0.69	0.73	0.79	0.66	0.86	0.77	1.61	1.36	1.21	1.39
25	IIMR 925	AQH9	0.66	0.74	0.73	0.71	0.76	0.63	0.81	0.73	0.65	0.63	0.67	0.65
26	IIMR 926	Pratap QPM Hybrid 1 (C)	0.60	0.68	0.65	0.64	0.75	0.72	0.81	0.76	0.8	0.76	0.56	0.71
27	IIMR 927	Vivek QPM 9 (C)	0.56	0.61	0.71	0.63	0.69		0.78	0.74	0.91	0.87	0.82	0.87
28	IIMR 928	HQPM 1 (C)	0.69	0.68	0.65	0.67	0.74	0.73	0.88	0.78	0.84	0.68	0.49	0.67
29	IIMR 929	HQPM 4 (C)	0.65	0.53	0.6	0.6	0.7	0.81	0.79	0.77	0.48	0.5	0.54	0.51
30	IIMR 930	HQPM 5 (C)	0.65	0.59	0.68	0.64	0.77	0.75	0.74	0.75	0.66	0.72	0.81	0.73
31	IIMR 931	HQPM 7 (C)	0.69	0.73	0.68	0.7	0.78	0.71	0.89	0.79	0.81	0.86	0.77	0.81
32	IIMR 932	HM8-C	0.49	0.54	0.58	0.54	0.73	0.68	0.69	0.7	0.76	0.43	0.74	0.64
33	IIMR 933	HM4-C	0.54	0.51	0.47	0.51	0.74	0.72	0.76	0.74	0.7	0.63	0.59	0.64
34	IIMR 934	HM9-C	0.32	0.41	0.35	0.36	0.76	0.58	0.79	0.71	0.16	0.16	0.26	0.19

L – Samples grown at Ludhiana center
A - Samples grown at Almora center
D - Samples grown at Delhi center

Table 3: Lysine content (% of endosperm protein) of maize samples received under coordinated QPM breeding programme

			Analyzed at										
S. No	**Pedigree**	**Name of entry**	**Ludhiana**				**Almora**			**Delhi**			
			L	**A**	**D**	**Mean**	**L**	**A**	**D**	**L**	**A**	**D**	**Mean**
1	IIMR 901	IIMRQPMH 1608	2.87	2.85	2.52	2.75				3.62	3.99	3.71	3.77
2	IIMR902	REHQ2014-11	2	2.54	2.32	2.29				4.59	3.78	2.4	3.59
3	IIMR 903	FQH 106	3.42	3.55	3.29	3.42				2.74	1.9	2.79	2.48
4	IIMR 904	IIMRQPMH 1601	2.58	2.72	2.69	2.66				2.9	1.56	1.95	2.14
5	IIMR 905	IIMRQPMH 1502	3.64	3.55	3.6	3.60				2.76	2.73	2.57	2.69
6	IIMR 906	IIMRQPMH 1605	2.88	2.79	3.55	3.07				2.8	2.51	1.9	2.40
7	IIMR 907	IIMRQPMH 1606	2.83	2.78	2.69	2.77				3.17	2.93	1.33	2.48
8	IIMR 908	VEHQ-16-1	4.2	3.97	4.08	4.08				3.32	3.89	3.88	3.70
9	IIMR 909	IIMRQPMH 1607	2.92	2.88	3.07	2.96				3.15	3.28	2.11	2.85
10	IIMR 910	IIMRQPMH 1603	3.47	3.6	3.42	3.50				2.72	2.8	2.79	2.77
11	IIMR 911	BQPMH 16	3	3.15	3.33	3.16				1.91	2.85	1.68	2.15
12	IIMR 912	IIMRQPMH 1504	2.6	2.81	2.35	2.59				2.98	2.28	1.72	2.33
13	IIMR 913	IMHQPM 1530	2.36	2.62	2.54	2.51				2.92	2.14	2.55	2.54
14	IIMR 914	IIMRQPMH 1604	2.98	2.72	2.79	2.83				2.4	3	2.32	2.57
15	IIMR 915	IIMRQPMH 1610	3.14	3.21	3.59	3.31				5.34	4.84	3.37	4.52
16	IIMR 916	IIMRQPMH 1609	3.44	3.1	3.85	3.46				3.2	2.7	2.29	2.73
17	IIMR 917	QPM-MH-27	2.41	2.52	2.64	2.52				7.22	6.02	3.33	5.52
18	IIMR 918	IIMRQPMH 1602	3	3.14	2.88	3.01				3.91	4.26	3.39	3.85
19	IIMR 919	KDQH-51	2.7	2.58	2.93	2.74				2.89	3.75	2.56	3.07
20	IIMR 920	IIMRQPMH 1508	2.9	3.12	2.88	2.97				3.68	4.41	3.19	3.76
21	IIMR 921	IIMRQPMH 1501	2.55	3.68	3.89	3.37				1.92	3.65	2.04	2.54
22	IIMR 922	APQH9	2.65	2.45	2.5	2.53				3.26	2.32	2.86	2.81
23	IIMR 923	AQH4	4.05	4.20	3.55	3.93				3.05	3.4	3.44	3.30
24	IIMR 924	AQH8	3.25	3.46	3.01	3.24				5.28	3.98	6.11	5.12
25	IIMR 925	AQH9	3.15	3.62	3.59	3.45				2.87	2.4	2.2	2.49

26	IIMR 926	Pratap QPM Hybrid 1 (C)	2.50	2.52	2.73	2.58				3.17	4.04	2.05	3.09
27	IIMR 927	Vivek QPM 9 (C)	2.50	2.63	2.87	2.67				3.45	3.6	3.49	3.51
28	IIMR 928	HQPM 1 (C)	3.22	3.34	2.88	3.15				3.41	2.47	3.13	3.00
29	IIMR 929	HQPM 4 (C)	2.23	2.19	2.5	2.3				2.1	2.11	2.71	2.31
30	IIMR 930	HQPM 5 (C)	3.15	2.78	3.00	2.98				3.87	4.04	2.92	3.61
31	IIMR 931	HQPM 7 (C)	3.24	3.55	3.3	3.36				5.7	6.58	3.26	5.18
32	IIMR 932	HM8-C	2.1	2.15	1.95	2.07				3.03	1.87	3.11	2.67
33	IIMR 933	HM4-C	2.2	2.17	1.99	2.12				2.6	2.64	1.92	2.39
34	IIMR 934	HM9-C	1.62	1.49	1.63	1.58				1.84	2.06	2.05	1.98

L – Samples grown at Ludhiana center
A - Samples grown at Almora center
D - Samples grown at Delhi center

EVALUATION OF MAIZE GERMPLASM FOR PROVITAMIN A COMPONENTS UNDER AICRP QUALITY PROGRAMME

Yellow maize is a rich source of provitamin A components such as β-carotene and β-cryptoxanthin. The entries developed for higher pro-vitamin A components were, therefore, analyzed for β-carotene and β-cryptoxanthin. Two entries are received in this programme. The pro-vitamin-A is calculated by adding beta-carotene + 1/2 beta-cryptoxanthin values. Since, the pro-vitamin components are reported to be degraded by many environmental factors such as light, heat etc, the entries developed for this purpose were analyzed afresh (November 2017) as after storage for different periods of time i.e. I month (December 2016), 2 months (January 2017) and 3 months (February 2017). Storage effect was also evaluated vacuum packed samples at different periods of time. As mentioned above the samples are analyzed at three laboratories for pro-vitamin A and the data is presented in Table 4. Discrepancies were observed in the data reported from Almora centre. The entry showing lower concentrations of pro-vitamin A at Delhi and Ludhiana is showing much higher concentration at Almora and the data is incomplete also. **The data of Almora centre, therefore, may not be considered**.

Table 4: Pro-vitamin-A (μg/g) of maize samples received under coordinated quality breeding programme

Vacuum packed										
Analyzed in November										
		Analyzed at								
		Ludhiana			**Almora**			**Delhi**		
S.No	**Pedigree**	**L**	**A**	**D**	**L**	**A**	**D**	**L**	**A**	**D**
1	IIMR 922	8.35	7.96	9.1	6.57	7.01		9.05	8.3	10.4
2	IIMR 927	1.92	2.15	2.54	9.05	8.87		2.45	1.96	3.16
Analyzed in December										
1	IIMR 922	7.85	7.12	8.35	6.2	6.53		8.18	7.92	9.32
2	IIMR 927	2.1	2.03	2.14	9.35	8.03		2.28	1.82	2.79
Analyzed in January										
1	IIMR 922	7.2	6.85	7.35	6.68	6.27		8.02	7.8	8.98
2	IIMR 927	1.96	1.59	1.83	9.48	9.56	7.73	2.15	1.35	2.2
Analyzed in February										
1	IIMR 922	6.24	6.38	7.02	6.19	6.54		7.96	7.73	8.82
2	IIMR 927	1.5	1.58	1.21	9.42	8.56	7.68	1.59	1.27	1.78
Normal Storage										
Analyzed in November										
		Analyzed at								
		Ludhiana			**Almora**			**Delhi**		
		L	**A**	**D**	**L**	**A**	**D**	**L**	**A**	**D**

1	IIMR 922	8.21	7.88	8.67			5.65	8.82	7.49	7.82
2	IIMR 927	1.85	1.92	2.54			9.08	2.35	1.93	2.98
Analyzed in December										
1	IIMR 922	6.95	6.33	6.81			5.56	7.66	6.68	7.28
2	IIMR 927	1.56	1.97	2.22			8.97	1.58	1.6	2.49
Analyzed in January										
1	IIMR 922	3.99	4.24	3.59			8.3	4.47	4.11	4.67
2	IIMR 927	1.61	1.80	1.65		7.91	9.81	1.32	1.33	1.81
Analyzed in February										
1	IIMR 922	3.11	3.52	3.67	7.56	7.09	6.06	4.11	3.9	4.3
2	IIMR 927	1.59	1.38	1.67	9.46	9.56	9.04	1	0.95	1.14

L – Samples grown at Ludhiana center
A - Samples grown at Almora center
D - Samples grown at Delhi center

EVALUATION OF MAIZE GERMPLASM DEVELOPED BY IIMR FOR PROTEIN QUALITY

QPM development requires continuous monitoring of protein quality and a strong support from biochemical laboratory is always needed. Simple analytical techniques were developed and used to analyze large number of samples in a rapid and efficient manner to provide results to the breeders in a timely fashion to make right decision at right time. Apart from providing analytical services in identifying quality hybrids in the AICRP trials, the biochemistry laboratories facilitates the quality analysis of maize germplasm received from breeders involved in QPM breeding. In the first of experiment a set of 22 elite inbreds received from IIMR, Ludhiana were analyzed for protein quality. The kernels were screened on the basis of opaqueness to select the representative sample. Out crossed as well as non uniform kernels were discarded. The endosperm was separated, defatted and processed for protein quality. The range of protein was 7.92 to 13.11 per cent with lowest and highest values being exhibited by the genotypes DQL 2028 and DQL 2038, respectively. The range of tryptophan was 0.42 (DQL 2039) and 0.75 (DQL 2006) (Table 5). A total of 11 lines were found to possess the threshold concentrations of protein quantity as well as quality for QPM breeding (Table 5.1)

Table 5: Protein quality of maize inbreds received IIMR, Ludhiana

S. No	Pedigree	100 k.wt.	S. G.	Protein	Tryptophan (% of protein)
1	DQL 2105-1	19.03	1.35	10.97	0.71
2	DQL 2048	18.76	1.56	9.21	0.73
3	DQL 2006	12.67	1.05	11.86	0.75
4	DQL 2038	12.46	1.38	13.11	0.47
5	DQL 2039	17.86	1.48	13.1	0.42

6	DQL 2028	18.7	1.33	7.92	0.73
7	DQL 2104	15.25	1.08	12.89	0.63
8	DQL 2157	21.44	1.19	8.67	0.67
9	DQL 2008 -1	19.05	1.19	10.03	0.48
10	DQL 2111	20.22	1.26	9.37	0.68
11	DQL 2031	19.63	1.96	9.02	0.68
12	DQL 2054	11.29	1.13	8.37	0.7
13	DQL 2034	18.36	1.31	9.62	0.5
14	DQL 2055	17.47	1.24	11.17	0.65
15	DQL 2071	20.81	1.3	9.37	0.66
16	DQL2015	18.74	1.33	8.95	0.6
17	DQL 2025	14.88	1.24	9.67	0.63
18	DQL 2024	18.03	1.5	8.93	0.7
19	DQL 2113	19.76	1.23	10.65	0.49
20	DQL 2010	15.82	1.31	9.31	0.67
21	DQL 2046	13.01	1.3	9.75	0.68
22	DQL 2020	17.09	1.42	9.85	0.68

Table 5.1: Most promising lines for protein quality

S. No	Pedigree	100 kwt	S.G.	Protein	Tryptophan (% of protein)
1	DQL 2025	14.88	1.24	9.67	0.63
2	DQL 2104	15.25	1.08	12.89	0.63
3	DQL 2055	17.47	1.24	11.17	0.65
4	DQL 2071	20.81	1.3	9.37	0.66
5	DQL 2010	15.82	1.31	9.31	0.67
6	DQL 2031	19.63	1.96	9.02	0.68
7	DQL 2111	20.22	1.26	9.37	0.68
8	DQL 2046	13.01	1.3	9.75	0.68
9	DQL 2020	17.09	1.42	9.85	0.68
10	DQL 2105-1	19.03	1.35	10.97	0.71
11	DQL 2048	18.76	1.56	9.21	0.73
12	DQL 2006	12.67	1.05	11.86	0.75

In another experiment a set of 42 elite lines were evaluated for protein quality. Although the samples were uniform but no opaqueness was observed. The tryptophan content was well below the threshold concentration i.e. 0.6% of endosperm protein. However, a total of 13 lines were found to possess high protein content (Table. 6). The range of protein was 9.8 to 13.86 per cent with lowest and highest values being exhibited by the genotypes DMRH1302 and DMRH 1301, respectively. The range of tryptophan was 0.29 (HKI 1128, UMI 1201) to 0.55 (CML 170) per cent. Notable the lines with high protein content possess lower values for tryptophan.

Table 6: Protein quality of maize germplasm received from IIMR

S.NO	Pedigree	100 K WT	S. G.	PROTEIN (%)	Tryptophan (% of endosperm protein)
1	DMRH1302	19	1.18	9.8	0.41
2	DMRH 1410	34.6	1.15	10.23	0.38
3	DML 194	26.6	1.33	10.29	0.39
4	DMRH 1308	28.6	1.43	10.45	0.41
5	HKI 1378	15.6	0.86	10.68	0.51
6	DMRH 1305	23.1	1.15	10.75	0.45
7	DML 181-1	32.4	1.24	11.21	0.44
8	DMRH 1417	26.1	1.18	11.22	0.37
9	IML 12-201	16.8	1.4	11.45	0.38
10	LM 16	19.1	1.19	11.51	0.38
11	DMRH 1306	30.5	1.27	11.54	0.34
12	HKI 1348	20.7	1.15	11.57	0.4
13	BML 6	24.8	1.24	11.62	0.4
14	CML 170	21.6	1.08	11.64	0.55
15	LM 19	16.5	1.37	11.68	0.43
16	IML 15-18	26	1.3	11.76	0.38
17	UMI 1230	17.2	1.22	11.87	0.39
18	LM 5	23.9	1.19	11.91	0.35
19	IMH 1529	21.1	1.31	12.06	0.42
20	HKI 1344	20.8	1.15	12.28	0.33
21	UMI 1220	36.2	1.39	12.45	0.35
22	IMH 1543	22	1.1	12.5	0.3
23	LM 14	18.8	1.34	12.55	0.38
24	DML 65	36.4	1.21	12.58	0.43
25	HKI 1105	25.9	1.43	12.62	0.31
26	LM 17	19	1.35	12.65	0.35
27	IMH 1525	17.9	0.99	12.72	0.42
28	LM 18	19.5	1.39	12.75	0.39
29	IML 12-199	26	1.18	12.78	0.35
30	IML 16-2	19.1	1.19	13.07	0.36
31	LM 13	28.3	1.41	13.09	0.34

32	IMH 1542	30.2	1.07	13.23	0.34
33	UMI 1200	25.3	1.05	13.3	0.3
34	HKI 1128	30.2	1.37	13.45	0.29
35	UMI 1201	25.4	1.27	13.51	0.29
36	CML269QPM	27.5	1.14	13.58	0.54
37	BML 7	24	1.33	13.61	0.3
38	DML 187	18.3	1.01	13.73	0.31
39	UMI 1210	24	1.2	13.75	0.3
40	DML 170	19.9	1.24	13.84	0.3
41	LM11	16.1	1.15	13.85	0.37
42	DMRH 1301	22.5	1.12	13.86	0.3

EVALUATION OF MAIZE GERMPLASM DEVELOPED BY IIMR FOR NUTRITIONAL QUALITY

In this programme samples received from the scientists working on quality aspects such as improvement of maize for oil, starch and methionine etc. were evaluated. A set of 42 lines was evaluated for starch and oil content. The oil content ranges from 2.21 (CML 170) to 4.32 (BML 7) and starch content from 68.14 (CML269QPM) to 75.88 (DMRH 1305). Twelve lines were found to be rich in starch content, whereas 2 lines (BML 7 and DMRH 1308) also contain good amount of oil along with high starch values. Three lines (UMI 1201, LM 13 and BML 7) out of this stock were found to be rich both in protein as well as starch. The data is presented in Table 7

Table 7: Evaluation of maize germplasm for oil and starch

S. No.	Pedigree	Oil%	Starch
1	IML 15-18	3.11	72.07
2	CML 170	2.21	71.41
3	IML 16-2	2.24	68.24
4	IML 12-199	3.41	73.66
5	CML269QPM	3.76	68.14
6	IML 12-201	3.58	73.8
7	LM 5	3.02	74.01
8	LM11	2.36	68.61
9	LM 13	3.37	73.38
10	LM 14	3.05	73.05
11	LM 16	2.62	75.66
12	LM 17	3.33	72.7
13	LM 18	3.1	71.11

14	LM 19	3.04	74.03
15	BML 6	2.7	74.8
16	BML 7	4.32	75.02
17	HKI 1105	2.58	68.28
18	HKI 1128	3.18	72.54
19	UMI 1200	2.95	72.84
20	UMI 1201	3.01	73.16
21	UMI 1210	3.27	72.49
22	UMI 1220	2.82	73.28
23	UMI 1230	4.04	73.04
24	DML 65	2.99	72.11
25	DML 170	3.04	71.58
26	DML 187	2.47	68.32
27	HKI 1344	2.33	73.41
28	HKI 1348	3.34	69.07
29	HKI 1378	3.17	72.04
30	DML 181-1	2.7	70.32
31	DMRH 1301	3.41	68.75
32	DMRH1302	2.81	74.08
33	DMRH 1305	2.66	75.88
34	DMRH 1306	2.99	NS
35	DMRH 1308	4.2	75.83
36	DMRH 1417	3.67	74.56
37	IMH 1525	3.43	70.99
38	IMH 1529	3.97	71.4
39	IMH 1542	4.04	70.94
40	IMH 1543	3.73	73.96
41	DMRH 1410	2.93	74.38
42	DML 194	2.7	73.7

In another experiment a total of 27 samples received from IIMR Ludhiana were analyzed for oil content. The data is presented in Table 8. Four lines (TLWQ(HO)QPMC15BBB20BB-4, TLWQ(HO)QPMC15BBB34BBB, TLWQ(HO)QPMC15BBB20BBB and TLWQ(HO)QPM C15BBB38BBB were found to possess more than 5% of oil. However, the standard for high oil maize is ≥ 6 per cent and one line out of this stock meets the threshold concentration.

Table 8: Evaluation of maize germplasm for oil content

S. No.	Name of the line	pedigree/background	Oil%
1	649	(TempxTrop(HO))xHKI Talaar	1.39
2	660	(TempxTrop(HO))xHKI Talaar	1.49
3	650-2	(TempxTrop(HO))xHKI Talaar	2.34
4	656	(TempxTrop(HO))xHKI Talaar	2.6
5	26557-3	TempxTrop(HO)QPMBBB49BBB-3	2.64
6	647-2	(TempxTrop(HO))xHKI Talaar	2.85
7	648-1	(TempxTrop(HO))xHKI Talaar	2.89
8	648-2	(TempxTrop(HO))xHKI Talaar	3.02
9	650-1	(TempxTrop(HO))xHKI Talaar	3.02
10	26542-1	TempxTrop(HO)QPMBBB100BBB-1	3.03
11	657	(TempxTrop(HO))xHKI Talaar	3.25
12	27430-3	TempxTrop(HO)QPM-3	3.25
13	647-1	(TempxTrop(HO))xHKI Talaar	3.41
14	26542-2	TempxTrop(HO)QPMBBB100BBB-2	3.54
15	27430-1	TempxTrop(HO)QPM-1	3.55
16	652	(TempxTrop(HO))xHKI Talaar	3.58
17	26557-4	TempxTrop(HO)QPMBBB49BBB-4	3.74
18	27434-3	TempxTrop(HO)QPMBBB57-3	3.98
19	27432-1	TempxTrop(HO)QPMBBB2BBB-1	4.02
20	27434-1	TempxTrop(HO)QPMBBB57-1	4.02
21	27446	TLWQ(HO)QPMC15BBB28BBB	4.63
22	26585-1	TLWQ(HO)QPMC15BBB20BB-1	4.89
23	27432-2	TempxTrop(HO)QPMBBB2BBB-2	4.96
24	26585-4	TLWQ(HO)QPMC15BBB20BB-4	**5.08**
25	27451	TLWQ(HO)QPMC15BBB34BBB	**5.2**
26	27443	TLWQ(HO)QPMC15BBB20BBB	**5.26**
27	27455	TLWQ(HO)QPMC15BBB38BBB	**6**

In another experiment a set of 55 lines grown at Begusarai and Hyderabad were analyzed for protein, methionine, oil and starch in order to identify promising lines for the above mentioned quality traits. For protein and methionine, the kernels were screened to select the representative sample. Non uniform kernels were discarded. The endosperm was separated, defatted and processed for protein and methionine. Some exceptionally superior lines were identified for protein (CA14502/CA14509)-F2-14-BBB-CML451-BBB-OPc14S1, 4840, CML44, EC646016, PFSRR3AAAA and PFSRS3), Starch (DMRPE6-2, HP963-17, NZB 2012), oil (HKI42050) and methionine (CML145 and NZB 2012) across replications and locations. The data is presented in table 9.

Table 9: Evaluation of maize germplasm for protein, oil, starch and methionine content under different environments

S. No.	PEDIGREE	100 KWT		S.G.		PROTEIN (%)		METHIONINE (% end. prt)		STARCH (%)		OIL (%)	
		B	HYD	B	HYD	B	HYD	B	H	B	H	B	H
1	100	23.81	24.67	1.03	1.29	11.8	11.98	1.18		73.3	66.81	3.0	2.46
2	4839	22.64	23.68	1.13	1.18	11.74	7.46	1.06				3.62	
3	4840	31.34	32.88	1.25	2.51	**13.55**	**13.23**	1.1	1.23	67.86	69.66	3.93	3.93
4	4854	33.17	32.4	1.26	1.24	11.41	12.76	1.12	1.5	71.49	71.98	3.5	3.06
5	5000	21.85	27.71	1.21	1.25	12.5	12.51		1.84		65.16		2.1
6	5086	28.41	29.06	1.15	1.2	12.33	12.66	1.02	1.66	71.02	67	3.40	2.39
7	5153		27.64		1.19		11.77		1.54		65.96		2.97
8	5183		25.66		1.15		13.01		1.59		67.71		3.61
9	6329	24.65	20.22	1.17	1.12	8.42	10.19	1.57		74.69	71	2.56	2.84
10	6338	16.57	26.47	1.25	1.17	12.37	11.71	1.91	1.86	70.27	70.63	2.14	2.91
11	6345		23.61		1.07	10.5	12.83	1.3	1.39	74.69	70.96	3.35	2.59
12	(CA14502/CA14509)-F2-14-BBB-CML451-BBB-OPc14S1	30.1	30.41	1.25	1.13	**13.42**	**13.3**	1.48	1.57	71.85	70.52	3.56	3.49
13	42050-1ÄÄÄÄ	13.85	24.97	1.23	1.78	11.22	11.83	1.19	1.37	74.01	69.76	4.26	3.97
14	Acc.No.527290	33.17	33.12	1.18	1.25	12.96	12.22	0.81		71.06	70.96	3.16	3.03
15	Acc.No.563959ÄÄ	21.81	29.89	1.21	1.25	12.37	13.25	1.34		69.59	64.61	2.7	2.87
16	BGS663		17.86		1.27		10.69				73.04		2.83
17	BGS 686-1	23.18	30.18	1.16	1.21	11.78	12.26	1.24	1.48	72.81	69.82	2.84	3.23

18	BML 15ÄÄ	29.06	33.31	1.0	1.21	12.64	12.58		1.74	70.54	68.23	3.28	3.05
19	CM 117-3-4-1	30.66	33.62	1.23	1.2	11.39	11.96	1.18	1.81	73.71	70.24	3.67	3.16
20	CM 133ÄÄÄÄ	24.96	22.42	1.14	1.35	13.02	12.56	0.92	1.66	68.77	67.83	3.7	3.36
21	CM 144	25.73	19.51	1.16	1.16	12.97	13.18		1.50	71.68	67.16	2.93	3.33
22	CM 145	29.06	29.6	1.21	1.18	9.7	11.40	**2.0**	**2.0**	75.2	69.46	2.5	2.62
23	CML 141ÄÄÄÄ	32.41	34.61	1.23	1.36	13.88	12.68	1.03	1.72	69.98	67.70	3.22	3.53
24	CML-269ÄÄÄÄ	35.16	34.66	1.17	1.23	13.63	17.20	1.33	1.45	70.50	69.30	2.47	3.56
25	CML-287	34.46	33.75	1.27	1.22	13.12	12.94	1.35	1.30	70.50	67.67	3.89	4.06
26	CML 327	17.13		1.23		12.74		2.03		67.87			
27	CML 333	20.60	19.65	1.25	1.22	12.34	11.13	1.80	1.44	70.48	67.58	3.60	3.28
28	CML409ÄÄÄÄ	25.61	22.61	1.28	1.20	12.11	11.20	1.13	1.36	72.6	69.63	2.90	2.94
29	CML 44	39.93	27.69	1.33	1.18	**13.56**	**13.30**	0.79	1.57	70.52	65.68	3.55	3.3
30	CML 491ÄÄÄÄ		29.47		1.19		13.58		1.50		68.87		2.44
31	DMR PE6-2	24.82	21.71	1.16	1.08	10.58	9.1	1.21	1.89	**74.7**	**73.52**	2.81	2.21
32	EC440642	20.84	28.16	1.22	1.20	11.61	13.00	0.86	1.5	71.08	70.84	3.5	2.67
33	EC 618201		22.93		0.81		11.31		1.14		70.14		2.92
34	EC 618988		32.01		1.23		13.31		1.46		69.3		2.87
35	EC646016	30.26	31.21	1.16	1.23	**13.82**	**13.14**	1.24	1.89	67.49	69.22	2.55	3.16
36	EC 656087ÄÄÄÄ	17.53	27.15	1.25	1.25	8.6	12.21		2.04	72.45	71.33	3.77	2.76
37	HKI 42050	24.99	30.25	1.35	1.26	11.56	13.14	0.86	1.77	74.74	67.84	**4.00**	**4.00**
38	HP 963-17	21.0	22.23	1.16	1.17	11.98	11.09	1.16	1.95	**73.64**	**73.29**	2.36	2.02
39	HY10RN-10235-118-1-3	30.14	24.03	1.23	1.23	12.56	12.27	1.27	1.61	72.38	68.87	3.67	2.72
40	ITINA004		20.22		1.15		12.23		1.48		66.88		3.72
41	JCY3-7		32.08		1.23		12.35		1.77		69.04		3.70
42	JCY3-7ÄÄÄÄ	33.83	36.37	1.39	1.35	11.94	11.93	1.17	1.43	72.43	68.71	3.75	3.38
43	LM13	27.22	19.03	1.05	1.05	13.29	11.76	1.16		69.31	68.12	2.4	2.56
44	NZB2012	32.83	32.60	1.17	1.23	11.51	12.11	**1.92**	**1.98**	**73.61**	**72.48**	3.44	2.95
45	P61C1-BBB-47-BBB-2	13.03	29.06	1.08	1.19	13.64	11.56		1.64	67.08	68.93	2.70	2.43
46	PFSR 10	30.66	25.34	1.27	1.11	10.26	10.67		1.79		68.79	2.8	2.90
47	PFSR5106-1 ÄÄÄÄ		31.73		1.23		12.02		1.91		68.69		3.00

48	PFSRR10	25.69	23.18	1.29	1.20	13.7	12.93	1.02	1.02	70.38	67.36	3.00	3.55
49	PFSR R3ÄÄÄÄ	33.78	31.27	1.27	1.20	**13.71**	**13.02**	1.09	1.58	69.27	67.93	2.47	3.93
50	PFSR S3	27.52	32.73	1.25	1.29	**13.77**	**13.81**	1.45	1.7	71.77	71.29	3.7	3.57
51	Temp x Trop(H0)QPMÄÄ		33.74		1.12		13.44		1.90		66.96		3.28
52	UMI1210	30.68	32.43	1.28	1.33	12.75	13.46	1.26	1.75	72.11	69.82	3.92	2.82
53	WNCDMR10RYSDWS8707	22.63	17.52	1.25	1.25	10.5	11.89	1.35		73.24	71.34	2.55	2.03
54	WNCDMRNC370	18.82	22.2	1.48	1.23	10.60	12.3	1.09	1.80	74.14	67.79	2.78	3.02
55	WX0384		22.16		1.15		12.27		1.68		70.25		2.21

NUTRITION

Station: AICRP (Maize), Food Science and Nutrition, ZARS, V.C. Farm, Mandya, Karnataka

Results of the research conducted by Assistant Nutritionist during 2016-17

Experiment 1: Assessment of popping quality in popcorn trials:

Objective: To assess the popping quality in pop corn genotypes.

Table 1. Popping characteristics of genotypes.

Sl. No.	Genotype	Moisture (%)	Popping (%)	Popped Mass (g/100 grain)	Popped volume (ml/g)	Popped density (g/ml)
1	IMHP-1535	13.00	85.00	13.67	5.44	0.190
2	MPC 1-15	14.77	80.00	12.33	4.47	0.227
3	**Pop corn (Jaya Shree)**	**12.47**	**100.00**	**14.67**	**9.89**	**0.100**
4	IHPC-1203	12.33	54.00	9.67	3.45	0.293
5	**ROBUST 265**	**12.17**	**100.00**	**12.67**	**9.60**	**0.107**
6	IMHP 1540	13.47	71.33	13.33	3.87	0.277
7	DPCH-306	14.83	89.33	17.33	4.38	0.240
8	ROBUST 427	14.17	97.00	10.00	9.58	0.107
9	**AP2202**	**12.17**	**100.00**	**15.00**	**10.00**	**0.100**
10	DMRHP-1402	13.90	80.00	15.00	7.41	0.137
11	**AP6005**	**13.77**	**100.00**	**14.00**	**10.17**	**0.100**
12	IHPC-1201	13.27	72.67	14.00	5.09	0.213
13	SJPC1	14.23	86.67	13.00	6.37	0.163
14	VL Amber Popcorn (C)	13.20	83.00	12.33	6.33	0.157
Mean		13.41	85.64	13.36	6.86	0.172

Popping Characteristics	F Value			
	Between replications	Between Genotypes	SEm±	CD@5%
Popped Mass	0.49^{NS}	2.93^{**}	1.16	3.38
Popping%	0.39^{NS}	6.30^{**}	5.428	15.769
Popped density	0.02^{NS}	8.21^{**}	0.024	0.069
Popped volume	0.08^{NS}	13.63^{**}	0.686	1.992
Moisture	0.33^{NS}	11.99^{**}	0.264	0.767

Inference: Among the genotypes tested, **IMR 399, 401, 393 and IMR 395** were recorded **100%** popping percentages with a significantly high popped volume of 10.00, 10.17, 9.89, 9.60 ml/g respectively

Experiment 2: Assessment of Total Soluble Solids (TSS ^{0}Brix), reducing and non reducing sugar content in Sweet corn trials:

Objective: To assess the total soluble solid (TSS ^{0}Brix) and sugar content in Sweet corn trials.

Table 2. Sugar content of sweet corn trials.

Sl. No.	IIMR Code	Tss ^{0}Brix	Reducing Sugar (%)	Non Reducing Sugar (%	Total Sugar (%)
1	**IMR361**	**23.36**	**3.86**	**23.59**	**27.45**
2	IMR362	19.38	3.66	21.51	25.17
3	IMR363	18.35	2.73	17.740	20.47
4	IMR364	18.93	3.40	19.56	22.96
5	IMR365	17.51	2.96	18.53	21.49
6	IMR366	21.98	3.23	21.76	24.99
7	IMR367	18.76	3.30	17.50	20.80
8	IMR368	21.96	3.80	20.65	24.45
9	IMR369	17.87	2.56	17.70	20.26
10	IMR370	21.79	3.83	20.83	24.68
11	IMR371	20.92	2.43	20.66	23.09
12	**IMR372**	**25.66**	**2.90**	**27.74**	**30.64**
13	IMR373	22.94	3.73	21.64	25.37
Mean		20.72	3.26	20.72	23.99

Characteristics	F Value			
	Between replications	Between Genotypes	SEm±	CD@5%
TSS ^{0}Brix	0.41^{NS}	2814.13^{**}	0.015	0.043
Reducing Sugar	0.40^{NS}	641.15^{**}	0.020	0.058
Non Reducing Sugar	0.20^{NS}	152.28^{**}	0.228	0.664
Total Sugar	0.25^{NS}	163.76^{**}	0.232	0.677

Inference: Under sweet corn trails the genotype **IMR 372** had significantly more total soluble solids (TSS) of **25.67** ^{0}brix with **30.64** percent total sugar followed by **IMR 361** with a TSS content of **23.33** °brix and total sugar content **27.45** percent.

Experiment 3: Estimation of Vitamin C, total soluble solids and β carotene content in fresh Babycorn trails:

Objective: To assess the ascorbic acid content (vitamin C) total soluble solids and beta carotene content in fresh Babycorn genotypes.

Table 3. Quality assessment in fresh Babycorn trials**.**

Sl. No.	IIMR code	TSS ^{0}Brix	Vitamin C (mg/100 g)	β-Carotene (µg/100g)
1	IMHB 1538	7.33	6.78	574.55
2	**IMHB 1525**	**8.67**	**6.86**	**590.71**
3	IMHB 1531	7.67	6.92	542.41
4	AH-7043	7.00	6.87	520.35
5	IMHB 1539	6.67	6.71	560.63
6	AH-5021	6.33	6.82	580.36
7	IMHB 1537	6.67	6.87	538.12
8	GAYMH-1	6.33	6.91	571.47
9	IMHB 1532	8.67	6.91	491.69
10	IMHB 1529	7.67	6.88	550.55
11	BVM-2	8.67	6.91	525.55
12	MBC 11-15	6.67	6.86	541.46
13	**DMRHB 1305**	**6.33**	**6.94**	**588.15**
14	HM 4 (C)	8.33	6.71	562.33
Mean		7.36	6.85	552.73

Characteristics	F Value			
	Between replications	Between Genotypes	SEm±	CD @ 5%
Tss ^{0}Brix	1.70^{NS}	8.60^{**}	0.314	0.911
Vitamin C (mg/100g)	0.45^{NS}	0.08^{NS}	0.256	NS
β-Carotene (µg/100 g)	2.36^{NS}	2838.73^{**}	0.531	1.543

Inference: Among the genotypes tested **IMR 382** had significantly high beta carotene content of **590.71 µg**, with an ascorbic acid and **TSS** content of **6.86** mg and **8.67** ^{0}brix respectively, followed by genotype **IMR 379** with a β carotene content of 588.15 µg with a vitamin C content of **6.94** mg and TSS of **6.33** ^{0}brix respectively.

Studies on Babycorn preservation

Experiment 4: **Babycorn sugar Preservation**

Objective: To standardize the recipe for Babycorn murabba and candy, to extend the shelf life of Babycorns using various preservative methods.

Table 4. Physical characteristics of fresh Babycorn

Sl. No	Parameters	*Observations
1	Weight of Babycorn with husk (g)	48.86
2	Weight of Babycorn without husk (g)	8.06
3	Weight of husk and silk	40.80
4	Length of Babycorn (cm)	7.16
5	Breadth of Babycorn (cm)	1.04
6	Moisture content (% wet basis)	88.0
7	Total soluble solids TSS °(brix)	8.9

*=average of 10 Babycorns

Table 5. Nutritional value of fresh Babycorn (De-husked)

Sl. No	Particulars	Observations
1	Crude protein (g)	2.90
2	Crude fat (g)	0.90
3	Crude fiber (g)	3.40
4	Ash (g)	1.34
5	Total carbohydrates (g)	9.0
6	Calcium (mg)	27.0
7	Phosphorus (mg)	84.0
8	Iron (mg)	0.30
9	Energy (k.cal)	55.7

Table 6. Steps involved in Babycorn candy and murabba preparation.

CANDY	MURABBA
Babycorn (2″rectangular slices)	Babycorn (2″rectangular slices)
4 min hot water blanching with citric acid	4 min hot water blanching with citric acid
Heating corn in 40^0 B sugar syrup to 60°C for 30 min	Heating corn in 40^0 B sugar syrup to 60°C for 30 min
Cooling to 50°C and add preservatives, keep for 24 hrs at room temperature	Cooling to 50°C and add preservatives, keep for 24 hrs at room temperature
Separation of corn from syrup. Set the brix to 50^0 B	Separation of corn from syrup. Set the brix to 50^0 B
Immersion of corn to syrup, boil for 30 min and steeping at room temperature for 24 hours	Immersing corn, boil for 30 min and steeping at room temperature for 24 hours
Separation of corn from syrup and set the brix to get 60^0 B	Separation of corn from syrup and set the brix to get 60^0 B
Immersion of corn to syrup, boil for 30 min and steeping at room temperature for 24 hours	Immersion of corn to syrup, boil for 30 min and steeping at room temperature for 24 hours
Draining of syrup & dry the corn at 70°C for 9 hrs (15%MC)	Next day check the final product TSS as 60^0 B
Packed in MPP pouches	Store in air tight container (sterilized glass bottles)

Table 7. Bio-chemical changes of Babycorn candy during storage.

Parameters	Months of Storage													
	0 month		I month		II month		III month		IV month		V month		VI month	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B
TSS ^{0} (brix)	34.0	32.50	33.00	32.01	33.50	32.02	32.50	32.00	32.01	31.00	31.05	30.01	31.50	30.00
Moisture (%)	8.92	8.60	8.97	8.64	8.12	8.75	8.20	9.01	8.30	9.03	9.03	9.85	9.38	10.04
Ash (%)	2.24	2.2	2.28	2.24	2.32	2.28	2.38	2.3	2.39	2.31	2.41	2.31	2.41	2.33
Titrable acidity (% citric acid)	0.72	0.7	0.68	0.63	0.53	0.58	0.42	0.50	0.41	0.48	0.39	0.47	0.38	0.45
pH	4.90	4.8	4.72	4.81	4.31	4.64	4.20	4.20	4.10	4.20	4.00	4.10	4.00	4.05

A-Rectangular Candy, B-Whole Candy

Table 8. Mean sensory Scores of Candy and Murabba over 6 months of Storage. (Storage studies).

Characteristics	Months of storage													
	Initial		I Month		2 Month		3 Month		4 Month		5 Month		6 Month	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Appearance	4.5	4.5	4.5	4.2	4.4	4.0	4.2	4.1	3.8	4.1	3.8	4.0	3.8	3.9
Color	4.2	4.2	4.1	4.0	4.1	3.8	4.0	4.0	3.8	4.0	3.7	4.0	3.6	3.9
Texture	4.3	4.3	4.3	4.1	4.2	4.0	4.0	4.0	3.9	4.0	3.9	3.9	3.9	3.9
Taste	4.4	4.4	4.4	4.3	4.2	4.0	4.1	4.0	4.0	4.0	4.0	4.0	3.9	3.8
Flavor	4.5	4.5	4.4	4.2	4.1	3.8	4.0	4.1	3.9	4.1	3.9	3.9	3.8	3.8
OAA	4.2	4.2	4.1	4.0	4.0	3.8	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9

A-Candy, *B*-Murabba

Table 9. Consumer Acceptability studies (Candy) N=90

Consumer ratings	V.C. Farm		KVK, Hassan		Mandya		Total	
	No	%	No	%	No	%	No	%
Very good	22	73.3	28	93.3	24	80	74	82.2
Good	4	13.3	2	6.6	4	13.3	10	11.1
Not good	4	13.3	0	0	2	6.6	6	6.6
	30	100	30	100	30	100	90	100

Table 10 . Consumer Acceptability studies (Murabba) N=90

Consumer ratings	V.C. Farm		KVK, Hassan		Mandya		Total	
	No	%	No	%	No	%	No	%
Very good	24	80.1	22	73.3	4	13.3	50	55.55
Good	4	13.3	2	6.66	24	80.0	30	33.33
Not good	2	6.6	6	20.0	2	6.6	10	11.11
	30	100	30	100	30	100	90	100

Inference: Both candy and murabba were scored between highly acceptable to acceptable ranges in terms of sensory parameters throughout the storage period of six months. Hence candy and murabba can be kept upto six months in MPP pouches and glass bottle respectively without affecting the organoleptic parameters. Consumer acceptability studies showed that maximum number of consumers 73.3 to 93.3% rated the product candy as very good and 55.55 to 80.10% of consumers rated murabba as very good in different locations.

Preservation of Babycorn by brine solution

Objective: To standardize the different treatments for extending the shelf life of Babycorns**.**
Treatment details:

T_1: 8% Salt solution (with 4 min blanching+0.5% citric acid),
T_2: 8% Salt solution (with 4 min blanching+0.5% KMS+0.5% Citric acid)
T_3: 5% Vinegar solution (with 4 min blanching+1% Citric acid)
T_4: 5% Vinegar solution (with 4 min blanching+0.5% KMS+0.5% Citric acid)

Table 11. Sensory parameters observed in different treatments.

Treatments	Colour	Taste	Odour	Appearance	Keeping quality	Inference
T_1	Colour changes after 3 months	Good upto 3 months	Changed after 3 months	Discolouration After 3 months	Colour changes to white mushy dour	Shelf life upto 3 months
T_2	**No change in colour**	**No change in taste**	**No change in odour**	**Remained Fresh**	**Good**	**Shelf life of >6 months**
T_3	Bleaching of colour	Sour taste	Fermented odour	Slight white	Average	Shelf life upto 1 months
T_4	**No change in colour For 3 months**	**Taste good upto 3 months**	**No change**	**Good**	**Keeping good in all attributes upto 3 months**	**Shelf life upto 3 months.**

Inference: Under brine method of preservation, among four different treatments **T_2:** 8% Salt solution (with 4 min blanching+0.5% KMS+0.5% Citric acid) and **T_4:** 5% Vinegar solution (with 4 min blanching+0.5% KMS+0.5% Citric acid) were kept well beyond six months and three months respectively, indicating that the combination of preservatives is better compared to single in extending the shelf life of the Babycorns.

Experiment 5: Preservation of Babycorn by dry salting

Objective: To standardize the methods for Babycorn preservation using dry salting.

Treatment details:

T_1– 15% Salt+0.5% citric acid+0.5% KMS with 4 min hot water blanching

T_2- 10% Salt+0.5% citric acid+0.5% KMS with 4 min hot water blanching

T_3- 15% Salt+0.5% KMS with 4 min hot water blanching.

T_4– 10% Salt+0.5%KMS without blanching

T_5– 0.5% citric acid+0.5% KMS with 4 min hot water blanching

Table 12. Changes in sensory parameter sob served in different treatments

Treatments	Colour	Odour	Appearance	Overall acceptability	Inference
T_1	**No bleaching of colour**	**No change in odour**	**Good >6 months**	**No changes in perceptible parameters > six months**	**Shelf life of > 6 months**
T_2	No bleaching of colour	No change in odour	Good upto 6 months	No changes in perceptible parameters upto six months	Shelf life of 6 months
T_3	Colour bleaches to white colour	Fermented odour after3 months	Good upto 3 months	Colour bleaching and odour change	Shelf life of 3 months
T_4	Colour bleaches to white colour	Fermented odour after 3 months	Good upto 3 months	Colour bleaching and odour change after 3 months	Shelf life of 3 months
T_5	Colour bleaches to white colour	Fermented odour	Mushy (softness) appearance	Colour, odour changes.	Shelf life of 1 months

Inference: Under dry salting method of preservation, the treatment **T_1**(15%Salt+0.5%citricacid+0.5%KMS with 4 min hot water blanching) was considered best for long time storage, followed by **T2** (10% Salt+0.5% citric acid+0.5% KMS with 4 min hot water blanching) with good retention of colour, odour, appearance and other sensory parameters.

Experiment 6: Dehydration studies of Babycorns.

Objective: To study the effect of different pretreatments on the quality of dehydrated Babycorns.

Table 13. Treatment details for dehydration studies of Babycorns.

T_1	**T_2**	**T_3**	**T_4**
Babycorn (control)	Babycorn + 1% KMS solution	**Babycorn + steeping in 0.5% KMS solution**	Babycorn + 5% Salt + 0.5% KMS + 0.5% Citric acid
Procedure			
4 min hot water blanching, steeping for 40 min	4 min hot water blanching, steeping for 40 min	**4 min hot water blanching, steeping for 40 min in 0.5% KMS.**	4 min hot water blanching, steeping for 4 0 min
Dried at 70^0 C for 6 hours	Dried at 70^0 C for 6 hours	**Dried at 70^0 C for 6 hours**	Dried at 70^0 C for 6 hours
6.8% moisture content	6.2% moisture content	**6.3% moisture content**	6.8% moisture content
Rehydration ratio 1:4.1	Rehydration ratio 1:4.4	**Rehydration ratio 1:4.9**	Rehydration ratio 1:3.4

Inference: Under dehydration method of preservation, among four different treatments **T_3 (Babycorn + steeping in 0.5% KMS solution)** yielded better product with good keeping quality with are hydration ratio of 1:4.9 compared to other treatments in terms of appearance, colour, taste, texture and overall acceptability.

Table 14. Sensory evaluation scores of different methods of babycorn preservation**.**

Methods	Treatments	Appearance	Texture	Flavor	Taste	OAA
Brine solution steeping	T_1	4.2	3.9	4.1	3.8	4.4
	T_2	**4.1**	**4.4**	**4.3**	**4.1**	**4.3**
	T_3	3.9	4.0	4.2	3.3	4.6
	T_4	**4.4**	**4.3**	**4.3**	**4.4**	**4.6**
Dry salting	**T_1**	**4.3**	**4.4**	**4.3**	**4.4**	**4.6**
	T_2	3.9	4.0	3.2	3.3	4.0
	T_3	3.9	3.3	4.3	4.1	4.4
	T_4	3.8	3.4	3.5	3.4	3.6
	T_5	3.7	3.2	3.3	3.2	3.4
Dehydration	T_1	2.5	2.9	3.7	3.1	3.1
	T_2	3.2	3.7	4.2	4.3	4.2
	T_3	**4.4**	**4.3**	**4.3**	**4.4**	**4.6**
	T_4	3.5	3.6	3.7	3.8	3.8

Inference: Under brine method of preservation, among four different treatments **T_2:** 8% Salt solution (with 4 min blanching + 0.5% KMS + 0.5% Citric acid) and **T_4:** 5% Vinegar solution (with 4 min blanching + 0.5% KMS + 0.5% Citric acid) were keeping well upto one year. In dry salting method of preservation, all three treatments were kept well upto six months of storage. Economically the treatment **T_1** was considered best for long times to rage, with good retention of colour. Under dehydration method of preservation, among three different treatments **T_3** (**Babycorn + steeping in 0.5% KMS solution)** yielded better product with good keeping quality of more than six months for its acceptability in terms of appearance, colour, taste, texture, flavor and overall acceptability.

Experiment 7. Development of new value added products from maize.

Objective: To develop new value added products from maize using fermentation technique**.**

Table 15. Sensory scores of maize *idli* with different ratios of maize semolina.

Treatments	Color	Appearance	Taste	Texture	Flavor	OAA
2:1	8.40^{ab}	6.50^{c}	7.05^{c}	6.90^{d}	8.20	7.60^{c}
3:1	8.75^{a}	8.65^{a}	8.60^{a}	8.80^{a}	8.45	8.30^{b}
4:1	7.00^{c}	6.80^{c}	6.60^{d}	7.55^{c}	8.40	6.90^{d}
3:1 (Control)	8.25^{b}	8.00^{b}	8.10^{b}	8.35^{b}	8.52	8.85^{a}
F value	*	*	*	*	NS	*
S.Em±	0.01	0.01	0.01	0.01	0.05	0.13
CD at 5%	0.02	0.01	0.02	0.02	-	0.46

2:1, 3:1, 4:1 ratios are maize semolina: blackgram dhal and controlsrice: blackgram dhal in 3:1 ratio. Evaluation was on nine point hedonic scale (n=21)

Table 16. Sensory scores of maize dhokla with different ratios of maize semolina

Treatments	Color	Appearance	Taste	Texture	Flavor	OAA
2:1	8.40^{ab}	8.60^{a}	7.05^{d}	6.90^{c}	8.40	8.00^{b}
3:1	8.20^{bc}	8.50^{a}	8.60^{a}	8.80^{a}	8.45	8.32^{ba}
4:1	8.00^{c}	8.00^{b}	6.60^{c}	7.55^{d}	8.20	6.95^{c}
3:1 (Control)	8.75^{a}	8.80^{a}	8.10^{b}	8.35^{b}	8.52	8.65^{a}
F value	*	*	*	*	NS	*
S.Em±	0.12	0.06	0.01	0.01	0.05	0.12
CD at 5%	0.35	0.19	0.02	0.02	-	0.34

2:1, 3:1, 4:1 are maize semolina: bengalgram dhal ratios and controlsrice: bengalgram dhal in 3:1 ratio. Evaluation was on nine point hedonic scale (n=21)

Table 17. Sensory scores of maize *kadabu* with different ratios of maize flour

Treatments	Color	Appearance	Taste	Texture	Flavor	OAA
2:1	7.500^{b}	8.40	8.05^{b}	8.01	8.20	8.00^{bc}
3:1	8.400^{a}	8.45	8.60^{a}	8.20	8.40	8.32^{ab}
4:1	7.88^{b}	8.20	7.92^{b}	7.92	8.52	7.95^{c}
3:1(Control)	8.50^{a}	8.52	8.23^{b}	8.23	8.45	8.45^{a}
F value	*	-	*	-	NS	*
S.Em±	0.03	0.05	0.05	0.04	0.05	0.01
CDat5%	0.09	-	0.17	-	-	0.02

2:1, 3:1, 4:1 are maize flour: blackgram dhal incorporations and control is wheat: blackgram dhal in 3:1 ratio. Evaluation was on nine point hedonic scale (n=21).

Table 18. Consumer acceptability scores of maize *idli*

Consumers	Like	Dislike	Neither like nor Dislike
Rural Children	45(90%)	3(6%)	2(4%)
Urban Children	40(80%)	8(16%)	2(4%)
Rural Adults	46(92%)	4(8%)	-
Urban Adults	43(86%)	3(6%)	4(8%)

N=50. Figures in the parenthesis indicates percentages

Table 19. Consumer acceptability scores of maize *Dhokla*

Consumers	Like	Dislike	Neither like nor Dislike
Rural Children	48(96%)	2(4%)	0(0%)
Urban Children	49(98%)	1(2%)	0(0%)
Rural Adults	49(98%)	0(0%)	1(2%)
Urban Adults	50(100%)	0(0%)	0(0%)

N=50.Figures in the parenthesis indicate percentages

Table 20. Consumer acceptability scores of maize *Kadabu*

Consumers	Like	Dislike	Neither like nor Dislike
Rural Children	35(70%)	10(20%)	5(10%)
Urban Children	25(50%)	20(40%)	5(10%)
Rural Adults	38(76%)	10(20%)	2(4%)
Urban Adults	30(60%)	15(30%)	5(10%)

N=50. Figures in the parenthesis indicates percentages

Inference: Different ratios of maize semolina and flour were incorporated to standardize *Maize idli, maize dhokla* and maize *kadabu* by fermentation technique. Different ratios of maize semolina were incorporated in order to assess the best acceptable product. Among the different combinations tested, 3:1 ratio of maize semolina and pulse was found to be acceptable by semi-trained judges.
Consumer acceptability studies indicated that maximum number of consumers liked the product *maize dhokla* in both rural and urban households followed by *maize idli* and *maize kadabu*.

Experiment 8: Assessment of nutritional quality of developed products.

Objective: To assess the nutritional quality of developed products at different stages of preparation.

Table 21. Proximate composition of maize and rice (control) *idli* at different stages of preparation (moisture free basis)

Treatments	Protein (%)		Fat (%)		Ash (%)		Crude fiber (%)		CHO (g)		Energy (Kcal)	
	Maize	Rice	Maize	Rice	Maize	Rice	Maize	Rice	Maize	Rice	Maize	Rice
Raw	12.20	11.07	1.61	0.46	2.42	2.44	1.37	1.21	75.91	76.71	366.93	355.28
Soaked	13.91	11.59	1.72	0.45	2.58	2.87	1.24	1.13	73.74	76.33	366.06	355.75
Fermented	12.60	11.63	1.80	0.81	2.88	3.26	1.09	1.02	74.17	73.64	363.32	348.38
Cooked	12.45	11.84	1.91	0.95	1.62	3.18	0.93	0.94	72.43	70.90	356.71	339.50
F value	*	NS	*	*	*	*	*	*	*	*	*	*
SEm±	0.02	0.19	0.07	0.03	0.04	0.04	0.04	0.04	0.11	0.18	0.23	0.36
CD at 5%	0.09	-	0.23	0.10	0.14	0.13	0.14	0.12	0.37	0.57	0.76	1.18
T value												
Raw	9.89*		117.37*		6.65*		1.40		41.59*		92.35*	
Soaked	31.10*		7.75*		13.08*		5.67*		15.36*		12.79*	
Fermented	32.70*		15.64*		144.06*		0.78		110.68*		1.53	
Cooked	48.23*		871.69*		2.70		3.50		14.94*		69.92*	

*Significant at p=0.05; NS: Non-significant; Raw, soaked, fermented, cooked are powdered samples of 3:1 ratio

Table 22. Proximate composition of maize and rice (control) *dhokla* at different stages of preparation (moisture free basis)

Treatments	Protein (%)		Fat (%)		Ash (%)		Crude fiber (%)		CHO (g)		Energy (Kcal)	
	Maize	Rice	Maize	Rice	Maize	Rice	Maize	Rice	Maize	Rice	Maize	Rice
Raw	9.61	8.77	2.38	2.81	1.44	1.22	2.55	1.10	77.07	77.95	368.09	372.13
Soaked	10.01	10.92	2.85	2.66	1.64	0.93	2.79	1.16	73.10	76.47	358.13	373.48
Fermented	12.64	10.16	2.70	2.45	1.36	1.13	3.01	1.04	71.02	75.57	358.96	364.95
Cooked	11.42	10.01	2.98	3.02	2.57	1.62	3.00	1.64	69.81	72.24	351.73	358.95
F value	*	*	*	*	*	*	*	*	*	*	*	*
SEm±	0.02	0.17	0.05	0.06	0.04	0.03	0.02	0.01	0.13	0.15	0.55	0.44
CD at 5%	0.05	0.57	0.16	0.19	0.14	0.09	0.05	0.04	0.42	0.56	1.79	1.42
T value												
Raw	1.96		80.91*		7.56*		216.50*		6.53*		17.00*	
Soaked	109.69*		11.28*		74.06*		163.00*		64.80*		9.21*	
Fermented	16.63*		10.81*		58.15*		78.28*		37.65*		54.40*	
Cooked	51.99*		90.64*		87.45*		96.83*		22.04*		28.76*	

*Significant at p=0.05 Raw, soaked, fermented, cooked are powdered samples of 3:1 ratio.

Table 23. Proximate composition of maize and wheat (control) *kadabu* at different stages of preparation (moisture free basis).

Treatments	Protein (%)		Fat (%)		Ash (%)		Crude fiber (%)		CHO (g)		Energy (Kcal)	
	Maize	Wheat	Maize	Wheat	Maize	Wheat	Maize	Wheat	Maize	Wheat	Maize	Wheat
Raw	12.97	16.16	2.05	1.77	1.36	2.44	2.09	2.30	73.58	69.05	364.66	356.75
Soaked	12.39	16.70	2.46	1.34	1.90	3.01	2.07	2.24	72.77	66.83	362.74	346.23
Fermented	13.84	16.49	3.33	1.48	2.25	2.91	1.67	2.12	70.27	66.44	366.40	345.07
Cooked	13.54	16.74	3.59	1.71	2.84	2.94	1.11	1.61	67.13	65.36	354.98	343.79
F value	*	NS	*	*	*	*	*	*	*	*	*	*
SEm±	0.05	0.20	0.07	0.02	0.04	0.04	0.05	0.08	0.08	0.21	0.47	0.40
CD at 5%	0.16	-	0.24	0.07	0.13	0.13	0.16	0.25	0.25	0.69	1.49	1.29
T value												
Raw	11.91*		6.52*		30.99*		4.54*		17.65*		15.35*	
Soaked	27.09*		8.05*		122.80*		1.80		23.77*		6.82*	
Fermented	28.75*		54.66*		10.03*		10.24*		32.37*		44.38*	
Cooked	29.99*		33.01*		158.98*		2.50		88.95*		7.86*	

*Significant at p=0.05 Raw, soaked, fermented, cooked are powdered samples of 3:1 ratio**.**

Inference: The nutritional composition of maize dhokla, maize idli and maize kadabu were quite comparable to any other cereal like rice and wheat when compared at different stages of preparation

Experiment 9: Comparative studies of normal and QPM maize products.

Objective: To compare the normal and QPM (products) for acceptability.

Table 24. Nutritional composition of maize laddu

Nutritional composition	Maize Laddu (Normal)	Maize Laddu (QPM)
Protein (%)	15.97	16.01
Fat (%)	28.41	28.01
Carbohydrates (%).	64.51	64.23
Energy (Kcal)	537	537
ID fiber (%)	12.94	12.01
SDF (%)	1.21	1.19
Calcium (mg)	24.17	22.00
Magnesium (mg)	26.09	29.00
Copper (mg)	0.51	0.98
Iron (mg)	5.26	6.34
Zinc (mg)	1.92	2.01
Chromium (mg)	8.1	7.44
ß Carotene (µg)	9.61	11.98

Table 25 . Difference in mean sensory qualities of Normal and QPM laddu.

Characteristics	Ingredient variations		Statistical analysis		
	A	B	F-Value	SEm±	CD at 5%
Appearance	4.2	4.0	0.47	NS	NS
Colour	3.7	3.6	0.20	NS	NS
Texture	4.3	4.0	1.33	NS	NS
Flavor	3.9	4.3	2.06	NS	NS
Taste	3.9	4.0	0.17	NS	NS
OAA	3.9	3.8	0.09	NS	NS

A-Normal, B-QPM

Table 26. Difference in mean sensory scores of maize Normal and QPM idli

Characteristics	Ingredient variations		Statistical analysis		
	A	B	F-Value	SEm±	CD at 5%
Appearance	2.6	3.4	8.47	0.27	0.58
Colour	3.3	3.6	1.80	NS	NS
Texture	2.7	3.1	2.06	NS	NS
Flavor	3.2	3.7	3.95	NS	NS
Taste	2.8	3.5	7.23	0.26	0.55
OAA	2.7	3.6	16.20	0.22	0.47

Inference: There was no significant difference in the sensory characters of Normal and QPM *idli* prepared with 3:1 ratio of maize semolina and blackgram dhal. Similar trend was noticed with respect to laddu prepared by incorporating maize flour and gram flour.

Monitoring Report

AICRP Monitoring Report-Kharif 2016

Sl. No	Name of Centre	Monitoring Team and Date of Monitoring	Remarks/Comments	**Overall Grading**
1	Barapani	1. **Dr. Jyoti. Kaul, Breeder, IIMR, New Delhi** . 2. **Dr. Mahesh Kumar, Agronomist, PAU, Ludhiana** **3.Dr. Harleen Kaur, Pathologist, PAU, Ludhiana**	**Breeding:** All 8 allotted trials were conducted in very good manner	**Very Good**
			Agronomy: No trials.	
			Plant Pathology& Entomology : All 8 allotted trials were conducted in very good manner	**Very Good**
	CAU, Umaim	**1.Dr. Jyoti. Kaul, Breeder, IIMR, New Delhi** . 2. **Dr. Mahesh Kumar, Agronomist, PAU, Ludhiana** **3.Dr. Harleen Kaur, Pathologist, PAU, Ludhiana**	**Breeding:** All 9 allotted trials were conducted in very good manner	**Very Good**
	CAU, Imphal	**1.Dr. Jyoti. Kaul, Breeder, IIMR, New Delhi** . 2. **Dr. Mahesh Kumar, Agronomist, PAU, Ludhiana**	**Breeding: Out of allotted 9 trials 6 trials were conducted. 3 trials were not conducted (NIVT-M, E+EE)**	**Good**
		3.Dr. Harleen Kaur, Pathologist, PAU, Ludhiana	**Agronomy: :** All 4 allotted trials were conducted in very good manner	**Very Good**
2	Gossaingaon	1. **Dr. Jyoti. Kaul, Breeder, IIMR, New Delhi** . 2. **Dr. Mahesh Kumar, Agronomist, PAU, Ludhiana** **3.Dr. Harleen Kaur, Pathologist, PAU, Ludhiana**	**Breeding:** All 5 allotted trials were conducted in very good manner.	**Very Good**
			Agronomy: All 2 allotted trials were conducted in very good manner**.**	**Very Good**
			Plant Pathology: No trials.	
3	Pantnagar	1 **Dr. Robin Gogoi, Pathologist, IARI, New Delhi**. 2.**Dr. V. K. Paradkar, Agronomist, JNKVV, Chhindwara**. 3. **Dr. K. P. Singh, Sr. Scientist, IIMR, New Delhi**. 4..**Mr. Vishal Singh, Breeder, IIMR, Ludhiana**.	**Breeding:** All the eleven trials were conducted in very good manner.	**Very Good**
			Agronomy: All the 5 trials were conducted in very good manner.	**Very Good**
			Plant Pathology: All 12 trials were conducted in very good manner.	**Very Good**
			Soil Science: All the 3 trials were conducted in very good manner.	**Very Good**
			Entomology: No trials	
4	Almora	1 **Dr. Robin Gogoi, Pathologist, IARI, New Delhi**. 2. **Dr. V. K. Paradkar, Agronomist, JNKVV, Chhindwara**. 3. **Dr. K. P. Singh, Sr. Scientist, IIMR, New Delhi**. 4.**Mr. Vishal Singh, Breeder, IIMR, Ludhiana**.	**Breeding:** Out of 10 allotted trials 8 were conducted in excellent manner.	**Excellent**
			Agronomy: All three trials were conducted in very good manner.	**Very Good**
			Plant Pathology: All 14 trials were conducted in good manner.	**Very Good**
			Entomology: No trials	
5	Behraich	1. **Dr. Zahoor Ahmad, Breeder, S.K.U.A.&T., Srinagar** .	**Breeding:** All 11 allotted trials were conducted in very good manner..	**Very Good**
			Agronomy: All 7 allotted trials were conducted in good manner.	**Good**

		2 **Dr. C. S. Singh, Agronomist, BAU, Ranchi**	**Plant Pathology & Entomology:** No trials	
6	Kanpur	1 **Dr. J. S. Chawla, Breeder, PAU, Ludhiana** 2. **Dr. C.M. Parihar, Agronomist, IARI, New Delhi.**	**Breeding:** All allotted 11 trials were conducted in good manner.	**Good**
			Agronomy: Out of 2 allotted trials, only 1 trial was conducted. (MAT-5)	**Good**
			Plant Pathology & Entomology: No trials	
7	Bajaura	1. **Dr. K. S. Hooda, Plant Pathologist, IIMR, Ludhiana** 2. **Dr. Amit Bhatnagar, Agronomist, GBPUAT, Pantnagar** 3. **Dr. J. P. Shahi, Breeder, BHU, Varanasi**	**Breeding:** All eleven allotted trial were conducted in **excellent** manner	**Excellent**
			Agronomy: All four allotted trial were conducted in **excellent** manner. Adequate quantity of seed in all treatment should be arranged.	**Excellent**
			Plant Pathology: All 11+6 allotted trial were conducted in **excellent** manner	**Excellent**
			Entomology: No trials	
8	Kangra	1 **Dr. K. S. Hooda, Plant Pathologist, IIMR, Ludhiana** 2. **Dr. Amit Bhatnagar, Agronomist, GBPUAT, Pantnagar** 3. **Dr. J. P. Shahi, Breeder, BHU, Varanasi**	**Breeding:** All nine allotted trial were conducted in very good manner	**Very Good**
			Agronomy: No trials	
			Plant Pathology & Entomology : No trials	
9	Dhaulakuan	1. **Dr. K. S. Hooda, Plant Pathologist, IIMR, Ludhiana** 2. **Dr. Amit Bhatnagar, Agronomist, GBPUAT, Pantnagar** 3. **Dr. J. P. Shahi, Breeder, BHU, Varanasi**	**Breeding:** (Volunteer Centre). All two trials were conducted in very good manner.	**Very Good**
			Plant Pathology: All the trials were conducted in good manner.	**Very Good**
			Agronomy & Entomology: No trials	
			Agronomy: Plant Pathology & Entomology : No trials	
10	Hyderabad	1. **Dr. R Ravikesvan, Breeder, TNAU, Coimbatore**. 2 **Dr. Vijay Pooniya, Agronomist, IARI, New Delhi** 3 **Dr. Maha Singh, Entomologist, CCS HAU, Karnal** **4. Dr. R. P. Singh, Pathologist, GBPUAT, Pantnagar**	**Breeding:** All 13 trials were conducted in very good manner.	**Very Good**
			Agronomy: All 5 allotted trials were conducted neatly and systematically.	**Very Good**
			Plant Pathology: All 16 allotted trials were conducted neatly and systematically	**Very Good**
			Entomology: All 5 trials were conducted in very good manner.	**Very Good**
11	Karimnagar	1. **Dr. R Ravikesvan, Breeder, TNAU, Coimbatore**. 2 **Dr. Vijay Pooniya, Agronomist, IARI, New Delhi** 3 **Dr. Maha Singh, Entomologist, CCS HAU, Karnal**	**Breeding:** All the allotted trials were conducted as per the technical programme. Breeding program on line maintenance needs to be improved.	**Average**
			Agronomy: All the allotted trials were conducted as per the technical	**Good**

		4. **. Dr. R. P. Singh, Pathologist, GBPUAT, Pantnagar**	Programme.	
			Plant Pathology & Entomology: No trials	
12	Karnal	1. **Dr. S. K. Guleria, Breeder, CSKHPKV, Bajaura, Distt. Kullu** 2 **Dr. S. L. Jat, Agronomist, IIMR, New Delhi** 3.**Dr.S. I. Harlapur, Pathologist, UAS, Dharwad, Karnataka**	**Breeding:** All 13 allotted trials were conducted in very good manner.	**Very Good**
			Agronomy: All 3 allotted trials were conducted in very good manner.	**Very Good**
			Entomology: All 5 allotted trials were conducted.	**Excellent**
			Plant Pathology: All 20 allotted trials were conducted in very good manner.	**Very Good**
13	Ludhiana	1. **Dr. S. K. Guleria, Breeder, CSKHPKV, Bajaura, Distt. Kullu** 2 **Dr. S. L. Jat, Agronomist, IIMR, New Delhi** 3.**Dr.S. I. Harlapur, Pathologist, UAS, Dharwad, Karnataka**	**Breeding:** All ten trials were conducted.	**Excellent**
			Agronomy: All 7 trials were conducted.	**Excellent**
			Entomology: All 11 trials were conducted.	**Excellent**
			Plant Pathology: All trials were conducted.	**Excellent**
14	Udhampur	1. **Dr. Manoj Mahla, Entomologist, MPUAT, Udaipur** 2. **Dr. N. K. Singh, Breeder GBPUAT, Pantnagar** 3.**Dr. Vinod Kumar, Agronomist, CSKHPKV, Bajaura, Distt. Kullu**	**Breeding:** All five trials were conducted in very good manner	**Very Good**
			Agronomy: All three trials were conducted in very good manner.	**Very Good**
			Entomology: No trials	
15	Varanasi	1 **Dr. Manoj Mahla, Entomologist, MPUAT, Udaipur** 2. **Dr. N. K. Singh, Breeder GBPUAT, Pantnagar** 3.**Dr. Vinod Kumar, Agronomist, CSKHPKV, Bajaura, Distt. Kullu**	**Breeding:** All the12 allotted trials were conducted out of them one trial Pop Corn I-II-III was rejected.	**Excellent**
			Agronomy: No trials	
			Plant Pathology & Entomology: No trials	
16	Ambikapur	1 **Dr. Manoj Mahla, Entomologist, MPUAT, Udaipur** 2. **Dr. N. K. Singh, Breeder GBPUAT, Pantnagar** 3.**Dr. Vinod Kumar, Agronomist, CSKHPKV, Bajaura, Distt. Kullu**	**Breeding:** All allotted 12 trials were conducted.	**Very Good**
			Agronomy: All the4 allotted trials were conducted and one trial MAT-9 was rejected.	**Very Good**
			Plant Pathology & Entomology: No trials	
17	Udaipur	1. **Dr. Neelam Sunil, Genetist, Winter Nursery, IIMR, Hyderabad** 2. **Dr. P. Laxmi Saujanya, Entomologist, Winter Nurery, IIMR, Hyderabad**. 3**. Dr. Bashir Ahmad, Agronomist, S.K.U.A.&T., Srinagar** . 4. **Dr. N. Mallikarjuna, Pathologist, Zonal ARS, V.C. Farm, Mandya**	**Breeding:** Allotted trials were 13, and conducted in excellent manner. Breeder seed production of parent lines of Pratap hybrid maize -3 inbred line EI-586-2(Female) and EI-670-2 (Male) undertaken during Khrif - 2016	**Excellent**
			Agronomy: All allotted trials were conducted in excellent manner.	**Excellent**
			Plant Pathology: The plan was implemented as per technical program.	**Excellent**
			Nematology: All the trials were conducted as per plan.	**Excellent**
			Entomology: All the trials were properly managed and recorded as per	**Excellent**

			technical plan.	
18	Banswara	1. . **Dr. Neelam Sunil, Genetist, Winter Nursery, IIMR, Hyderabad** 2. **Dr. P. Laxmi Saujanya, Entomologist, Winter Nurery, IIMR, Hyderabad**. 3**. Dr. Bashir Ahmad, Agronomist, S.K.U.A.&T., Srinagar** . 4. **Dr. N. Mallikarjuna, Pathologist, Zonal ARS, V.C. Farm, Mandya**	**Breeding:** All 16 allotted trials were conducted in **Excellent** manner.	**Excellent**
			Agronomy: Out of five trials one (MAT-2) was rejected.	**Good**
			Plant Pathology & Entomology: No trials	
19	Godhara	1. **Dr. Neelam Sunil, Genetist, Winter Nursery, IIMR, Hyderabad** 2. **Dr.** P. Laxmi Saujanya, Entomologist, Winter Nursery, IIMR, Hyderabad. 3**. Dr. Bashir Ahmad, Agronomist, S.K.U.A. &T., Srinagar** . 4. **Dr. N. Mallikarjuna, Pathologist, Zonal ARS, V.C. Farm, Mandya**	**Breeding:** All the trials were conducted in **Excellent** manner.	**Excellent**
			Agronomy: Out of five trials two were conducted.	**Very good**
			Plant Pathology & Nematology: All the three trials were conducted.	**Very good**
			Entomology : No trials	
20	Jhabua	1. **Dr. Neelam Sunil, Geneticist, Winter Nursery, IIMR, Hyderabad** 2. **Dr. P. Laxmi Saujanya, Entomologist, Winter Nurery, IIMR, Hyderabad**. 3**. Dr. Bashir Ahmad, Agronomist, S.K.U.A. &T., Srinagar** . 4. **Dr. N. Mallikarjuna, Pathologist, Zonal ARS, V.C. Farm, Mandya**	Breeding**: Allotted trails 8, One trial no. 63&64 was rejected**	**Good**
			Agronomy: Allotted trials were conducted in very good manner.	**Very good**
			Plant Pathology & Entomology: No trials	
	Chhindwara	**1.Dr. U. K. Hulihalli, Agronomist, Maize Research Unit, UAS, Dharwad** **2.Dr. Ganpati Mukri, Breeder, IARI, New Dellhi**	**Breeding:** All the trials were planted as per technical program	**Excellent**
			Agronomy: All the trials were planted as per technical program	**Excellent**
21.	Coimbatore	1. **Dr. J. C. Shekhar, Entomologist, Winter Nursery, IIMR, Hyderabad**. 2. **Dr. Meena Shekhar, Pathologist, IIMR, New**	**Breeding:** All 14 allotted trials were conducted.	**Excellent**
			Agronomy: All 3 allotted trials were conducted in excellent manner.	**Excellent**
			Pathology: All 12 allotted trials were conducted.	**Excellent**

		Delhi 3. **Dr. Ashok Kumar, Agronomist, IIMR, Ludhiana**		
22	Vagarai	1. **Dr. J. C. Shekhar, Entomologist, Winter Nursery, IIMR, Hyderabad**. 2. **Dr. Meena Shekhar, Pathologist, IIMR, New Delhi**. 3. **Dr. Ashok Kumar, Agronomist, IIMR, Ludhiana** 4. **Dr. Madhukar Bedis, Breeder, MPVV, Rahauri**	**Breeding:** Trials were conducted in good manner.	**Excellent**
			Agronomy: The trials were conducted very neatly.	**Very Good**
			Plant Pathology & Entomology: No trials	
23	Mandya	1**Dr. J. C. Shekhar, Entomologist, Winter Nursery, IIMR, Hyderabad**. 2. **Dr. Meena Shekhar, Pathologist, IIMR, New Delhi**. 3. **Dr. Ashok Kumar, Agronomist, IIMR, Ludhiana** 4. **Dr. Madhukar Bedis, Breeder, MPVV**. **Rahauri**	**Breeding:** All 12 allotted trials were conducted.	**Excellent**
			Agronomy & Entomology: No trials	
			Plant Pathology: All 20 allotted trials were conducted.	**Excellent**
24	Kolhapur	1. **Dr. J. C. Shekhar, Entomologist, Winter Nursery, IIMR, Hyderabad** 2. **Dr. Dilip Singh Agronomist, MPUAT, Udaipur** 3 **Dr. Pramod Rokadia, Professor, Breeding, MPUAT, Banswara**	**Breeding:** Out of sixteen trials, twelve trials were rejected. The rejected trials are 61(A): IVT, 61(B):IVT, 67: ZIV(AVT-1-II year), 62(A): IVT, 62(B): IVT, 63/64 IVT, 65:69 Z-IV (AVT-1-II year), 66/70 : Z-IV (AVT-1-II year), Sweet Corn, QPM (I-II-III), Pop Corn (I-II-III), Rainfed Trial-Normal Set(Late-Med.).	**Poor**
			Agronomy: Alloted trials 7, trial conducted 1.	**Poor**
			Entomology: All five trials were conducted in very good manner.	**Very Good**
25	Dharwad	1. **Dr. J. C. Shekhar, Entomologist, Winter Nursery, IIMR, Hyderabad** 2. **Dr. Dilip Singh Agronomist, MPUAT, Udaipur** 3 **Dr. Pramod Rokadia, Professor, Breeding, MPUAT, Banswara** 4. Dr. S.S. Sharma	**Breeding:** All 18 alloted trials were conducted in excellent manner.	**Excellent**
			Agronomy: All 6 alloted trials were conducted in excellent manner.	**Excellent**
			Pathology : All 19 alloted trials were conducted in excellent manner	
26	KSSC, Dharwad	1. Dr. Ramesh Kumar, Breeder, IIMR, Ludhiana 2. Dr. D. Sreelatha, Agronomist, Maize Research Centre, ARI, Hyderabad 3. Dr. P.Laxmi Sojanya, Entomologist, Winter	**Breeding:** All three trials were conducted in **Excellent** manner.	**Excellent**

		Nursery, IIMR, Hyderabad 4. Dr. Vinod Malik, Pathologist, CCSHAU, Karnal		
27	Bhubneshwar	1. **Dr. Chikkapa, GK, Breeder, IIMR, New Delhi**. 2. **Dr. A.K. Sinha, Agronomist, RMD College of Agric and Research Station, Ambikapur** 3 **Dr. Rajshekhar, H, Pathologist, VPKAS, Almora** 4. **Dr. Jwala Jindal, Entomologist, PAU, Ludhiana**	**Breeding:** All trials were conducted in very good manner. It was suggested to change the land for a better place	**Very Good**
			Agronomy: All four trials were conducted in good manner	**Good**
			Plant Pathology & Entomology: No trials	
28	Ranchi	1. **Dr. Chikkapa, GK, Breeder, IIMR, New Delhi**. 2. **Dr. A.K. Sinha, Agronomist, RMD College of Agric and Research Station, Ambikapur** 3 **Dr. Rajshekhar, H, Pathologist, VPKAS, Almora** 4. **Dr. Jwala Jindal, Entomologist, PAU, Ludhiana**	**Breeding:** Out of ten trials, one trial on 62-A was rejected.	**Very Good**
			Agronomy: Out of four trials, one trial on weed management was rejected.	**Very Good**
			Plant Pathology & Entomology: No Trial	
29	Dholi	1. **Dr. Chikkapa, GK, Breeder, IIMR, New Delhi**. 2. **Dr. A.K. Sinha, Agronomist, RMD College of Agric and Research Station, Ambikapur** 3 **Dr. Rajshekhar, H, Pathologist, VPKAS, Almora** 4. **Dr. Jwala Jindal, Entomologist, PAU, Ludhiana**	**Breeding:** All trials were conducted in very good manner	**Very Good**
			Agronomy: Out of seven trials three trials namely tillage x nutrient in rice- maize, Tillage x nutrient in maize- wheat and hybrid x density x nutrient in rice-maize were rejected.	**Good**
			Plant Pathology: The plant population must be maintained.	**Very Good**
			Entomology: Technical help is required and atleast one laboratory facility needs to be created.	**Good,**
	Nadia, WB	1. **Dr. Chikkapa, GK, Breeder, IIMR, New Delhi**. 2. **Dr. A.K. Sinha, Agronomist, RMD College of Agric and Research Station, Ambikapur** 3 **Dr. Rajshekhar, H, Pathologist, VPKAS, Almora** 4. **Dr. Jwala Jindal, Entomologist, PAU, Ludhiana**	**Breeding : All 5 allotted trials were conducted.** **Agronomy:** All 2 trials were conducted in a good manner. **Plant Pathology: All 17 allotted trials were conducted**	**Very Good**
30	Kashmir	1. **Dr. A. K. Singh, Agronomist, IIMR, New Delhi** 2. **Dr. Bhupender Kumar, Breeder, IIMR, New Delhi**	**Breeding No monitoring was done due to disturbance in Kashmir.**	
			Agronomy: No monitoring was done due to disturbance in Kashmir.	
31	**Delhi**	1.Dr. Meena Shekher 2.Dr. Ramesh Kumar 3.Dr. SL Jat	**Breeding : All 5 allotted trials were conducted.** **Agronomy:** All 2 trials were conducted in a good manner. **Plant Pathology: All 17 allotted trials were conducted** **Entomology: All 5 allotted trials were conducted.**	**Excellent** **Very Good** **Very Good** **Very Good**

Annexures

Annexure I

Maize area, production and yield statistics in Indian states from 2013-14 to 2015-16

State/ UT	Season	Area ('000 ha)			Production ('000 tonnes)			Yield (kg/ha)		
		2013-14	2014-15	2015-16#	2013-14	2014-15	2015-16#	2013-14	2014-15	2015-16#
Andhra Pradesh	Kharif	93.6	100.0	75.0	282.2	329.0	276.0	3015	3290	3680
	Rabi	242.1	203.0	158.0	1805.3	1609.0	1138.0	7456	7926	7203
	Total	335.7	303.0	233.0	2087.5	1938.0	1414.0	6218	6396	6069
Arunachal Pradesh	Kharif	39.0	38.7	*	55.5	59.3	*	1423	1533	-
	Rabi	8.0	9.4	*	13.5	15.8	*	1681	1684	-
	Total	47.0	48.0	*	69.0	75.0	*	1467	1563	-
Assam	Kharif	24.1	28.0	25.0	21.6	93.2	64.0	898	3333	2560
Bihar	Autumn	276.6	277.4	280.6	581.6	686.9	735.0	2103	2476	2619
	Rabi	455.8	429.1	421.0	1530.4	1653.6	1662.2	3358	3854	3948
	Total	732.3	706.5	701.7	2112.1	2340.5	2397.2	2884	3313	3416
Chattisgarh	Kharif	111.1	122.1	114.5	229.1	230.3	193.8	2062	1886	1693
Gujarat	Kharif	333.0	301.0	298.0	422.0	469.0	395.0	1267	1558	1326
	Rabi	128.0	81.0	89.0	259.0	162.0	177.0	2023	2000	1989
	Total	461.0	382.0	387.0	681.0	631.0	572.0	1477	1652	1478
Haryana	Kharif	9.0	8.0	6.0	27.0	18.0	17.0	3000	2250	2833
Himachal Pradesh	Kharif	292.7	292.6	295.6	652.1	579.0	671.0	2228	1979	2270
Jammu & Kashmir	Kharif	298.7	298.9	306.1	530.5	360.0	479.2	1776	1204	1566
Jharkhand	Autumn	250.8	263.6	283.9	506.0	466.1	367.3	2017	1768	1294
	Rabi	6.1	6.2		11.0	9.5	8.2	1807	1530	1974
	Total	256.9	269.8	288.0	517.0	475.6	375.5	2012	1763	1304
Karnataka	Kharif	1246.0	1210.0	1067.0	3578.5	3788.0	2922.0	2872	3131	2739
	Rabi	131.0	127.0	112.0	406.0	426.0	347.0	3099	3354	3098
	Summer									
	Total	1377.0	1337.0	1179.0	3984.5	4214.0	3269.0	2894	3152	2773
Kerala	Kharif	0.1	0.1	0.0	0.1	0.1	0.0	2000	833	994
	Rabi									
	Total	0.1	0.1	0.1	0.1	0.1	0.1	2000	1000	1000
Madhya Pradesh	Kharif	868.0	1132.0	1098.0	1534.0	2128.2	2580.3	1767	1880	2350
Maharashtra	Kharif	747.0	801.0	766.0	2133.4	1496.0	1187.0	2856	1868	1550
	Rabi	254.0	276.0	241.0	596.0	706.0	324.0	2346	2558	1344
	Total	1001.0	1077.0	1007.0	2729.4	2202.0	1511.0	2727	2045	1500
Manipur	Kharif	26.1	26.2	*	58.6	58.8	*	2246	2243	-
Meghalaya	Kharif	18.0	18.0	*	39.7	40.8	*	2200	2259	-
Mizoram	Kharif	5.6	5.6	*	8.0	8.4	*	1424	1521	-
	Rabi	0.2	0.1	*	0.2	0.2	*	1294	1286	-
	Total	5.8	5.7	*	8.2	8.6	*	1420	1515	-
Nagaland	Kharif	63.6	63.6	*	125.2	125.6	*	1969	1975	-
	Rabi	5.2	5.2	*	10.3	10.3	*	1973	1975	-
	Total	68.8	68.8	*	135.4	135.9	*	1969	1975	-
Odisha	Kharif	91.5	89.4	53.1	253.2	182.3	104.5	2766	2039	1968
	Rabi	3.6	2.3	2.5	10.4	5.9	6.4	2905	2608	2560
	Total	95.1	91.7	55.6	263.6	188.2	110.8	2771	2053	1993
Punjab	Kharif	130.0	126.0	115.0	507.0	460.0	424.0	3900	3651	3687
Rajasthan	Kharif	916.4	891.5	866.5	1463.8	1551.2	1141.7	1597	1740	1318
	Rabi	10.3	-	14.6	38.4	-	68.7	3729	-	4705
	Total	926.7	891.5	881.1	1502.2	1551.2	1210.4	1621	1740	1374

Sikkim	Kharif	39.9	39.9	*	68.8	68.9	*	1724	1727	-
Tamil Nadu	Kharif	188.0	190.7	134.6	1068.2	1083.7	879.5	5682	5682	6534
	Rabi	157.3	131.2	229.3	786.9	984.1	1503.9	5002	7500	6559
	Total	345.3	322.0	363.9	1855.1	2067.9	2383.3	5372	6423	6549
Telangana	Kharif	471.4	522.0	454.0	1688.0	1409.0	1160.0	3581	2699	2555
	Rabi	198.9	170.0	119.0	1086.7	899.0	576.0	5465	5288	4840
	Total	670.3	692.0	573.0	2774.7	2308.0	1736.0	4140	3335	3030
Tripura	Kharif	4.6	4.1	*	5.8	5.4	*	1277	1292	-
	Rabi	0.0	0.4	*	0.1	0.5	*	1500	1421	-
	Total	4.6	4.5	*	5.9	5.9	*	1279	1303	-
Uttar Pradesh	Kharif	696.0	643.0	605.0	1151.2	1143.0	1119.0	1654	1778	1850
	Rabi	71.0	74.0	74.0	155.0	136.0	136.0	2183	1838	1838
	Total	767.0	717.0	679.0	1306.2	1279.0	1255.0	1703	1784	1848
Uttarakhand	Kharif	25.0	24.5	23.0	35.5	50.8	39.0	1419	2070	1696
West Bengal	Kharif	43.7	45.4	48.0	117.4	122.1	130.0	2687	2688	2708
	Rabi	85.0	107.0	108.0	405.0	541.0	590.0	4765	5056	5463
	Total	128.7	152.4	156.0	522.4	663.1	720.0	4059	4350	4615
A & N Islands	Kharif	0.1	0.2		0.3	0.6		2254	3529	
Others	Kharif	-	-	188.6	-	-	357.5	-	-	1896
	Rabi	-	-	15.1	-	-	26.4	-	-	1748
	Total	-	-	204.3	-	-	383.9	-	-	1879
All India	Kharif	7309.7	7563.4	7103.6	17145.2	17013.6	15242.7	2346	2249	2146
	Rabi	1756.5	1621.9	1587.7	7114.3	7159.0	6563.8	4050	4414	4134
	Total	9066.2	9185.3	8691.2	24259.5	24172.6	21806.5	2676	2632	2509

***Included in others; #As per Fourth Advance estimates**

Annexure II

Meteorological Observations

S. No.	Station Name	Month	Temperature		Rainfall of month(mm)	R.H (%)		Sunshine Hrs.
			Min	Max		Min	Max	
1	Bhiloda	Jul	25.6	33.4	288.0	80.8	95.3	
		Aug	25.6	30.9	521.6	88.7	95.8	
		Sep	24.3	33.9	50.0	69.2	92.8	
		Oct	25.6	34.5	43.5	59.2	82.6	
2	Bhubhaneshwar	June	26.4	34.8	264.8	68.2	88.6	
		July	25.8	32.2	222.2	78.7	91.8	
		Aug	25.5	31.8	247.8	79.1	93.5	6.1
		Sept	25.4	31.4	238.2	79.8	93.0	3.4
		Oct	22.6	34.2	132.8	68.0	89.3	6.2
3	Bajaura	Apr	8.9	27.3	68.2	36	87	7
		May	12.5	30.9	51.7	37	90	7.5
		Jun	18.3	32.8	38.3	38	92	7.7
		Jul	21.3	31.4	83.1	55	92	5.6
		Aug	20.1	29.4	207.6	65	93	4.1
		Sept	17.1	31.1	23.9	48	91	8.1
		Oct	8.5	28.9	2.3	29	93	8
4	Mandya	Jun	20.0	32.7	102	77.8	85.5	4.0
		Jul	20.7	30.9	65.6	63.0	87.1	4.6
		Aug	20.3	32.2	104.1	55.6	92.3	5.3
		Sept	19.1	33.3	68.2	60.5	91.9	2.5
		Oct	17.3	34.5	65.0	54.6	86.2	6.7
		Nov	15.8	31.9	4.40	42.8	89.0	8.8
5	Dharwad	June	21.3	29.2	75.6	78.90		
		July	21.0	26.3	150.2	87.45		
		Aug	20.6	26.4	112.2	85.85		
		Sept	20.0	27.0	73.4	83.70		
		Oct	18.8	29.7	44.8	64.55		
		Nov	14.4	30.8	5.8	45.15		
		Dec	14.0	30.0	0.0	46.70		
6	Vagarai	Jan	30.59	18.41	00.0	45.56	90.61	
		Feb	33.61	20.07	00.0	36.17	82.42	
		Mar	36.40	20.65	25.5	33.29	81.35	
		Apr	38.64	25.08	00.5	32.97	77.62	
		May	36.41	24.66	38.0	41.55	70.30	
		June	33.79	24.26	04.5	58.10	55.27	
		July	33.66	24.06	36.5	46.33	67.07	
		Aug	34.16	24.60	01.0	40.34	62.06	
		Sept	34.57	24.08	00.0	44.30	62.72	
		Oct	33.83	23.05	140.5	37.15	67.29	
		Nov	31.14	20.59	22.0	34.48	70.25	
		Dec	30.79	19.35	25.0	35.36	67.80	

S. No.	Station Name	Month	Temperature		Rainfall of month(mm)	R.H (%)		Sunshine Hrs.
			Min	Max		Min	Max	
7	Coimbatore	June	23.9	31.5	7	59.8	80.8	4.9
		July	23.8	31.4	4.8	58.8	81.6	5.1
		Aug	23.4	32.5	5.5	55.5	85	7.1
		Sept	22.3	32.4	4.8	53.7	86	6.4
		Oct	22.5	32.4	43.6	55	88.2	6.5
8	Udaipur	Jan	8.2	26.7	0	27.1	82.7	7.2
		Feb	10.3	27.9	0	22	68.8	8.4
		Mar	15.3	33	0	24.7	62.2	7.6
		Apr	20.4	37.1	0	16.7	42.6	7.3
		May	25.9	39.3	2.6	22.1	45.4	8.8
		June	26.5	37.6	55.6	35.9	65.1	7
		July	24.3	30.8	338.6	68.6	85.7	3.2
		Aug	23.2	28.5	260.1	77.5	90.2	2.5
		Sept	21.7	31.6	3.4	49.1	76.2	6.9
		Oct	18.5	31.7	62.4	41.9	78.8	7.1
		Nov	11	30.3	0	26.4	80	8.6
		Dec	9.7	28	0	28.4	87.4	8.6

Annexure III

Guidelines for Uniform Method of Disease Assessment in Maize Under Artificially/ Sick Plot Created Epiphytotics

The screening techniques and rating of the disease intensities for uniform assessment of maize diseases are given below:

1. Turcicum leaf blight (TLB) and Maydis leaf blight (MLB)

Sorghum grains soaked in water in a conical flask, autoclaved twice, seeded with fungus under aseptic condition are kept for incubation at 25-27^{0}C. The flasks are shaken once in 2-3 days to facilitate uniform growth on grains. After 10 days the material is ready for inoculation. Prepare a fine powder of impregnated sorghum grains after shade drying. Put a pinch of this powder in the leaf whorl of 30-35 days old plant. Maintain adequate moisture for longer period to permit spore germination with the help of sprayer. Disease can also be created by spraying the spore suspension prepared from the pure culture of fungi or placing a pinch of leaf meal (prepared by grinding dried diseased leaves collected from the previous season) into whorl of each plant at 30-35 centimeter plant height with spray of 10-12 ml of water in whorl in case of dry weather. Second inoculation can be followed if the symptoms do not appear even after a week of first inoculation. Data can be recorded on 30-35 days after inoculation following rating scale of Balint-Kurti *et al.* (2006), Chung *et al.* (2010) and Mitiku *et al.* (2014) mentioned below:

Rating scale	Degree of infection (per cent DLA*)	PDI**	Disease reaction
1.0	Nil to very slight infection (≤10%).	≤11.11	Resistant (R) (Score: ≤ 3.0) (PDI: ≤ 33.33)
2.0	Slight infection, a few lesions scattered on two lower leaves (10.1-20%).	22.22	
3.0	Light infection, moderate number of lesions scattered on four lower leaves (20.1-30%).	33.33	
4.0	Light infection, moderate number of lesions scattered on lower leaves, a few lesions scattered on middle leaves below the cob (30.1-40%).	44.44	Moderately resistant (MR) (Score: 3.1–5.0) (PDI: 33.34-55.55)
5.0	Moderate infection, abundant number of lesions scattered on lower leaves, moderate number of lesions scattered on middle leaves below the cob (40.1-50%).	55.55	
6.0	Heavy infection, abundant number of lesions scattered on lower leaves, moderate infection on middle leaves and a few lesions on two leaves above the cob (50.1-60%).	66.66	Mod. susceptible (MS) (Score: 5.1-7.0) (PDI: 55.56-77.77)
7.0	Heavy infection, abundant number of lesions scattered on lower and middle leaves and moderate number of lesions on two to four leaves above the cob (60.1-70%).	77.77	
8.0	Very heavy infection, lesions abundant scattered on lower and middle leaves and spreading up to the flag leaf (70.1-80%).	88.88	Susceptible (S) (Score: >7.0) (PDI: >77.77)
9.0	Very heavy infection, lesions abundant scattered on almost all the leaves, plant prematurely dried and killed (>80%).	99.99	

***DLA- Diseased leaf area; **Percent disease index (PDI)**

2. Banded leaf and sheath blight (BLSB)

Soak barley grains in water for 24 hours and dispense 40g in 250 ml Erlenmeyer flask after removing excess water; autoclave at a pressure of 1.05 kg/sq. cm for 30 minutes. Homogenize 2-3 days old growth of pathogen taken from potato dextrose agar in sterile water and seed 5 ml in each flask. Incubate at 27°C for 10 days. Inoculations should be made during the rainy season on 30-45 days old plants with grain culture (2-4 grains) inserted between stalk and sheath at second or third level from soil. Grains placed at junction of sheath and leaf can also create optimum disease level and do not fall away with strong wind or heavy rain. Disease is recorded after 30-35 days of inoculations on basis of following modified rating scale of Payak and Sharma (1983), and Muis and Quimio (2006).

Rating scale	Degree of infection (per cent DLA)	PDI	Disease reaction
1.0	Disease on one leaf sheath only; few small, non-coalescent lesions present (≤10%).	≤11.11	Resistant (R) (Score: ≤ 3.0) (PDI: ≤ 33.33)
2.0	Disease on two sheaths; lesions large and coalescent (10.1-20%).	22.22	
3.0	Disease up to four sheaths; lesions many and always coalescent (20.1-30%).	33.33	
4.0	As in disease rating symptoms of 3.0, + rind discolored with small lesions (30.1-40%).	44.44	Moderately resistant (MR) (Score: 3.1–5.0) (PDI: 33.34-55.55)
5.0	Disease on all sheaths except two internodes blow the ear (40.1-50%).	55.55	
6.0	Disease up to one internode below ear shoot; rind discoloration on many internodes with large depressed lesions (50.1-60%).	66.66	Moderately susceptible (MS) (Score: 5.1-7.0) (PDI: 55.56-77.77)
7.0	Disease up to the internodes bearing the ear shoot but shank not affected (60.1-70%).	77.77	
8.0	Disease on the ear; husk leaves show bleaching, bands and cracking among themselves as also silk fibers; abundant fungal growth between and on kernels; kernels formation normal except being lusterless; ear size less than normal; some plants prematurely dead (70.1-80%).	88.88	Susceptible (S) (Score: >7.0) (PDI: >77.77)
9.0	In addition to disease rating symptoms of 8.0, shrinkage of stalk; reduced ear dimension; wet rot and disorganization of ear; kernel formation absent or rudimentary; prematurely dead plants common; abundant sclerotia production on husk leaves, kernels ear tips and silk fibers (>80%).	99.99	

3. Brown stripe downy mildew (BSDM)

Artificial epiphytotic conditions can be created by placing the powdered infected maize leaves containing spores collected during the last season containing oospores in furrows just before planting. This inoculum could also be prepared by collecting infected leaves supposed to be full of oospores from early plantings of maize of the same season, drying leaves and making powder out of the debris. Inoculum should be placed in furrows in such a manner that seeds were in proximity of inoculum.

Artificial epiphytotic condition could also be created by putting 2-3 cm pieces of freshly infected leaves containing sporangia of the fungus in the whorls of seedlings. This should be done during cloudy weather in the evening between 5 and 7 P.M. at 17, 24 and 30 days after planting. In experimental plots, where disease occurs year after year, only this method is adequate for creating epidemics. In areas of low disease incidence, both the methods of inoculation can be combined to obtain better results. Disease rating of individual maize varieties can be done by evaluation all plants of the row(s) using modified 1-9 rating scale of Payak and Sharma (1983) as described below:

Rating scale	Degree of infection (per cent DLA)	PDI	Disease reaction
1.0	Nil to very slight infection (≤10%).	≤ 11.11	Resistant (R) (Score: ≤ 3.0) (PDI: ≤ 33.33)
2.0	Slight infection, a few stripes scattered on two lower leaves (10.1-20%).	22.22	
3.0	Light infection, moderate number of stripes scattered on four lower leaves (20.1-30%).	33.33	
4.0	Light infection, moderate number of stripes scattered on lower leaves, a few stripes scattered on middle leaves below the cob (30.1-40%).	44.44	Moderately resistant (MR) (Score: 3.1-5.0) (PDI: 33.34-55.55)
5.0	Moderate infection, abundant number of stripes scattered on lower leaves, moderate number of stripes scattered on middle leaves below the cob (40.1-50%).	55.55	
6.0	Heavy infection, abundant stripes on lower leaves, moderate infection on middle leaves and a few stripes on two leaves above the cob (50.1-60%).	66.66	Mod. susceptible (MS) (Score: 5.1-7.0) (PDI: 55.56-77.77)
7.0	Heavy infection, abundant stripes on lower and middle leaves and moderate number of stripes on two to four leaves above the cob (60.1-70%).	77.77	
8.0	Very heavy infection, stripes abundant on lower and middle leaves and spreading up to the flag leaf (70.1-80%).	88.88	Susceptible (S) (Score: >7.0) (PDI: >77.77)
9.0	Very heavy infection, stripes abundant all leaves. No cob formation. Plants may be killed	99.99	

	prematurely (>80%).		

4. Curvularia leaf spot (CLS)

Mass multiplication of culture is done on half cooked sorghum grains and after evaporating excess moisture from surface, the grains are filled in 500 ml conical flasks and plugged properly. These are autoclaved for two hours at 15 lbs pressure and inoculated when cooled down at room temperature with pure culture of *Curvularia lunata*. After completion of mycelial growth which may take 15-20 days at temperature around 25-27 degree C, these grains are washed in RO water to get conidial suspension of $5x10^4$ conidia per ml. A bucket full of suspension is enough for spray inoculation of two 480 meter strip. The washed grains are spread in a tray to get again mass of conidia. After two days gap, one more spray inoculation is done as per previous method, but this time conidial suspension should be half of the previous one.

At least three observations are made and third observation at 80-85 DAS would be final based on leaf area covered by spots caused by pathogen. Observations are recorded using 1-9 rating scale (Hou *et al.,* 2013) as described below:

Rating scale	**Degree of infection (percent DLA)**	**PDI**	**Disease reaction**
1.0	≤10 % area of leaf infected	≤11.11	Resistant (R) (Score: ≤ 3.0) (PDI: ≤ 33.33)
2.0	10.1-20 % area of leaf infected	22.22	
3.0	20.1-30 % area of leaf infected	33.33	
4.0	30.1-40 % area of leaf infected	44.44	Moderately resistant (MR) (Score: 3.1–5.0) (PDI: 33.34-55.55)
5.0	40.1-50 % area of leaf infected	55.55	
6.0	50.1-60 % area of leaf infected	66.66	Moderately susceptible (MS) (Score: 5.1-7.0) (PDI: 55.56-77.77)
7.0	60.1-70 % area of leaf infected	77.77	
8.0	70.1-80 % area of leaf infected	88.88	Susceptible (S) (Score: >7.0) (PDI: >77.77)
9.0	>80% % area of leaf infected	99.99	

5. Common rust (C. rust) and Polysora rust (P. rust)

The rust is an obligate parasite and thus, it is very difficult to grow it on artificial media under laboratory condition. Though, for some specific purposes small amount of inoculum can be grown under laboratory condition on detached leaf culture. But, this meager amount of culture obtained by such method is not sufficient to be utilized for large scale screening trials under field conditions. Therefore, naturally infected leaves showing large number of uredopustules may be collected from different places so that all the prevalent races in the areas may be utilized for screening the materials against the prevalent rust fungus.

The infected leaves thus collected should be macerated thoroughly in between two palms of the hands dipped under a bucket of water until the water gets sufficiently coloured. The uredospores can also be collected on a butter paper by tapping the severely infected leaves with fingers and then stored in glass vial or glass tube which can be sealed easily under a flame. The uredospores, thus obtained may be kept for longer period in the freezer at lower temperature i.e. 5-7°C and can also be easily carried to some distant places for inoculation purposes.

For inoculating the plants in a field use of a knapsack sprayer is very useful. The spore suspension should be sprayed over the plants during the second half of the day when the sun becomes mild. While spraying inoculum, the nozzle of the sprayer should be kept over whorl of the plant and all the leaves may be sprayed thoroughly. The spore suspension must be stirred continuously during spraying as the light spores aggregate together on the upper surface of the water.

Repeating the inoculation two to three times gives a good result. In addition 2-4 lines of susceptible varieties grown as border rows around the screening plots also help to spread the disease. Disease rating is done as per scale devised by Lubberstedt *et al.* (1998) and Paterniani *et al.* (2000).

Rating scale	Degree of infection (per cent DLA)	PDI	Disease reaction
1.0	No uredia or hypersensitive flecks (<1%).	<11.11	Immune/HR (Score: <1.0) (PDI: < 11.11)
2.0	Very slight infection, one or two pustules on lower leaves only (1.0%).	22.22	Resistant (R) (Score: 1.1-2.0) (PDI: 11.12-22.22)
3.0	Very slight to slight infection, few scattered pustules on lower leaves only (1.1-10%).	33.33	Moderately resistant (MR) (Score: 2.1-4.0) (PDI: 22.23-44.44)
4.0	Light infection, few scattered pustules on lower leaves only (10.1-20.0%)	44.44	
5.0	Moderate infection, moderate number of pustules on lower leaves only (20.1-30%)	55.55	Moderately susceptible (MS) (Score: 4.1-6.0) (PDI: 44.45-66.66)
6.0	Moderate infection, abundant pustules on lower leaves; few on middle leaves (30.1-40%)	66.66	
7.0	Severe infection (40.1-60%)	77.77	Susceptible (S) (Score: >6.0) (PDI: >66.66)
8.0	Severe infection, abundant pustules on lower and middle leaves; extending to upper leaves (heavy infection) (60.1-80%)	88.88	
9.0	Severe infection, abundant pustules on all leaves, plant may dry prematurely or killed by the disease (very heavy infection) (>80%)	99.99	

6. Brown spot (BS)

For preparation of inoculum, the infected leaves (fresh or stored for 1-2 years) are taken and crushed into small pieces. These are put in water for thorough moistening and then blended in a blender in tap water. The resultant is filtered through muslin cloth. The filtrate is diluted to bring the concentration of sporangia up to 5000/ml of water. This inoculum is filled in small dropper bottles and the desired plants at susceptible stage (30±10 days) are inoculated by putting 2-3 drops of inoculum into the whorl. The disease appears after 10-20 days. Disease rating is done with modified scale of Payak and Sharma (1983).

Rating scale	Degree of infection (per cent DLA)	PDI	Disease reaction
1.0	Nil to very slight infection (≤10%).	≤ 11.11	Resistant (R) (Score: ≤ 3.0) (PDI: ≤ 33.33)
2.0	Slight infection, a few lesions scattered on two lower leaves (10.1-20%).	22.22	
3.0	Light infection, moderate number of lesions scattered on four lower leaves (20.1-30%).	33.33	
4.0	Light infection, moderate number of lesions scattered on lower leaves, a few lesions scattered on middle leaves below the cob (30.1-40%).	44.44	Moderately resistant (MR) (Score: 3.1–5.0) (PDI: 33.34-55.55)
5.0	Moderate infection, abundant number of lesions scattered on lower leaves, moderate number of lesions scattered on middle leaves below the cob (40.1-50%).	55.55	
6.0	Heavy infection, abundant number of lesions scattered on lower leaves, moderate infection on middle leaves and a few lesions on two leaves above the cob (50.1-60%).	66.66	Moderately susceptible (MS) (Score: 5.1-7.0) (PDI: 55.56-77.77)
7.0	Heavy infection, abundant number of lesions scattered on lower and middle leaves and moderate number of lesions on two to four leaves above the cob (60.1-70%).	77.77	
8.0	Very heavy infection, lesions abundant scattered on lower and middle leaves and spreading up to the flag leaf (70.1-80%).	88.88	Susceptible (S) (Score: >7.0) (PDI: >77.77)
9.0	Very heavy infection, lesions abundant scattered on almost all the leaves, plant prematurely dried and killed (>80%).	99.99	

7. Zonate leaf spot (ZLS)

The fungus is isolated from zonate leaf spot infected maize plants on Potato Dextrose Agar (PDA) and incubated at 28 ± 1°C. The growing mycelium from the margin of distinct colonies is then sub-cultured on fresh petriplates containing (PDA) to obtain pure culture. Plants in the field are artificially inoculated by spraying the spore suspension of *Gloeocercospora sorghi* containing 5×10^4 spores/ml. The inoculum was sprayed between 6-7 pm as night temperature

and humidity were conducive for infection. The observations on disease severity are recorded in 1-9 scale as followed in All India Coordinated Sorghum Improvement Project.

Rating scale	Degree of infection (per cent DLA)	PDI	Disease reaction
1.0	0 to ≤1% leaf area covered/ no symptom	≤ 11.11	Resistant (R) (Score: ≤ 3.0) (PDI: ≤ 33.33)
2.0	1.1 to 5% leaf area covered	22.22	
3.0	5.1 to 10% leaf area covered	33.33	
4.0	10.1 to 20% leaf area covered	44.44	Moderately resistant (MR) (Score: 3.1–5.0) (PDI: 33.34-55.55)
5.0	20.1 to 30% leaf area covered	55.55	
6.0	30.1 to 40% leaf area covered	66.66	Moderately susceptible (MS) (Score: 5.1-7.0) (PDI: 55.56-77.77)
7.0	40.1 to 50% leaf area covered	77.77	
8.0	50.1 to 75% leaf area covered	88.88	Susceptible (S) (Score: >7.0) (PDI: >77.77)
9.0	>75% leaf area covered	99.99	

8. Ear and cob rots (ECR)

The ear and cob rots are caused by species of *Fusarium*, *Cephalosporium*, *Aspergillus*, *Diplodia*, *Botryodiplodia theobromae*. The pathogens are isolated and identified from infected kernels. Infected kernels are surface sterilized with in 50 ml of a 1:10 dilution of commercial sodium hypochloride and water (0.3 to 0.6% final concentrations) for 2 minutes, rinsed in sterile water and blot dried on sterile paper. Three seeds are placed at equidistance in a Petri dish containing potato dextrose agar (PDA). After three to four days of incubation, the growth of the fungus would be sufficient for obtaining pure cultures of the pathogens. Pure cultures of the suspected ear rot pathogen are prepared by transferring small sections (0.2 mm^2) of the growing tip of the mycelium that show no mixture of different types of mycelium or bacterial growth. After 2-3 weeks when the fungus has covered the surface of the agar, one of the representative cultures should be observed in the microscope to ensure that the correct fungus was isolated based on morphological structures. The cultures at this time should be stored in a sealed plastic bag in the refrigerator (5-10^0C) to maintain good quality cultures for preparing the inoculum.

For production of *Fusarium verticilloides* and *Aspergillus flavus* inocula for field inoculations, 10 to 20 ml of sterile distilled water is added to a Petri dish containing a pure culture of the fungus using sterile technique and the spores and mycelia are scraped from the agar using a small laboratory spatula and added to a jar containing 1 liter of sterile water. Protective rubber gloves should be used in the preparation of the inoculum since this fungus produces mycotoxins that are water soluble. The contents of the container are mixed and the solution is poured through two layers of gauze placed in a funnel to collect the concentrated spore solution. The spore concentration obtained from a one liter jar is in the order of $2x10^5$ spores/ml and this solution needs to be diluted with water to arrive at the concentration for field inoculations. The stock solution should be stored immediately in the refrigerator and can be

used over a period of one week. A spore concentration of $2x10^5$ spores/ ml is prepared immediately before use (normally 5-10 ml of the stock solution added to one liter of water).

Inoculations for *Fusarium verticilloides* and *Aspergillus flavus* ear rots are done 7-10 days after pollination using a spore suspension with $2x10^5$ spores/ml. The period of 0-14 post-female flowering is the window where the ear is most susceptible to *Fusarium verticilloides* ear rot. For *Fusarium graminearum*, 1 ml of the spore suspension is injected in the silk channel using a repeater syringe used for vaccinating swine at 7-10 days after silking.

Rating scale	Degree of infection (per cent DLA)	PDI	Disease reaction
1.0	0% rot on the cob	0.0	Resistant (R) (Score: ≤ 3.0) (PDI: ≤ 33.33)
2.0	0.1–5% rot on the cob	22.22	
3.0	5.1–10% rot on the cob	33.33	
4.0	10.1–25% rot on the cob	44.44	Moderately resistant (MR) (Score: 3.1-5.0) (PDI: 33.34-55.55)
5.0	25.1–40% rot on the cob	55.55	
6.0	40.1–55% rot on the cob	66.66	Mod. susceptible (MS) (Score: 5.1-7.0) (PDI: 55.56-77.77)
7.0	55.1–70% rot on the cob	77.77	
8.0	70.1–85% rot on the cob	88.88	Susceptible (S) (Score: >7.0) (PDI: >77.77)
9.0	>85.1% rot on the cob	99.99	

9. Sorghum downy mildew (SDM)

A. Screening through direct inoculation with conidia:

i. *Collection and maintenance of inoculum***:** Sorghum plants showing systemic infection of downy mildew from the farmer's fields are collected during morning hours, preserved in polythene bags and brought to the laboratory. Conidiophores and conidia from the white bloom found on the lower surface of the leaves are washed with a fine jet of distilled water and conidial suspension is collected from the sorghum leaves. The seedlings of susceptible cultivar are spray inoculated at 2 leaf stage (6-7 days old) with the conidial suspension collected from the sorghum leaves. The inoculation of the seedlings is continued till the plants reached 15 days and systemic symptoms are seen. The inoculum from these plants is multiplied by spray inoculating to the fortnightly sowings of maize. The infected plants are maintained in the plot throughout the experimental period. Artificial inoculation technique developed by Lal and Singh (1984) is followed to induce the disease incidence by spraying conidial suspension between 2.30 a.m. and 4.00 a.m.

ii. *Evaluation of maize genotypes under artificial inoculation:* Maize genotypes are evaluated against sorghum downy mildew by artificial inoculation. Artificial inoculation is done when the plants are at two leaves stage as described by Lal and Singh (1984). Diseased

plants from which inoculum required to be drawn is sprayed with water at 6.00 PM so that leaves would have a thin film of water for good sporulation. By 2.00 AM, the inoculation crew assembles in the field with cleaned sprayers, torches and buckets. By 2.30 AM the diseased leaves with good sporulation are searched and washed in the water at the rate of 15 leaves per litre of water collected in the buckets. This operation is completed by 3.00 AM. Then the collected spore suspension in different buckets is thoroughly mixed and made upto 25 litres. The 25 litres of conidial inoculum is collected from 375 diseased leaves. The inoculation is completed by 4.00 AM with hand compression sprayer. Between 6.00 AM and at 6.00 PM water spray is given to the inoculated plot to create the required humidity artificially. With this method 100 percent disease incidence was created.

B. Spreader row technique: Spreader rows are sown 15-20 days prior to the sowing of the entries in 2.5 meter bands with a row spacing of 60 cm and plant to plant spacing of 30 cm. each band consisting of four rows surrounding on all the four directions. For this, highly susceptible variety is used. Inoculation of these spreader rows is done by following the above artificial inoculation procedure. Test entries were sown as mentioned above.

Per cent disease incidence is recorded 35 days after sowing and the entries are classified according to their disease reaction as described by Lal and Singh (1984).

Disease incidence (%)	**Disease reaction**
≤ 10	Resistant
10.1 – 25.0	Moderately resistant
25.1 – 50.0	Moderately susceptible
≥ 50.0	Susceptible

10. Rajasthan downy mildew (RDM)

Downy mildew nursery is required for artificial inoculation purposes. Susceptible maize cultivar is grown in cage house and the plants are inoculated at seedling stage by placing bits of downy mildew infected grasses *Heteropogon contortus* and *H. melanocarpus.* Humidity around 90% is maintained in the cage house. Chlorotic symptoms along with light green color extends up to upper green portion are typical symptoms. During midnight hours a layer of conidia can be seen. These plants serve as source of inoculum for artificial inoculation.

Since the pathogen is of nocturnal nature and produces conidia during 12:00 to 6 AM, hence the freshly harvested conidia are collected in distilled water or RO water. Before collecting conidia the leaves can be washed before an hour so as to get fresh viable conidia. For screening the test entries, susceptible entries should be planted before 15 days and should be inoculated first. Since this pathogen does not form oospores on maize, hence sick plot technique does not work. The conidial suspension of harvested conidia is filled in dropping bottle to put drops of inoculum at seedling stage (6-7 days old) in the whorl (a

cup like structure of upper leaf) during 3-5 AM. This should be done for 4-5 days regularly to avoid any escape. After 15-20 days symptoms become visible.

The observation is recorded as percent infected plants in a row out of total plants. At least three observations are taken at 30, 50 and 80 DAS. The last observation is considered as final, but number of plants is considered as of first observation. This is because some plants die and disappear due to infection. The entries are classified according to their disease reaction as described by Lal and Singh (1984) for SDM.

8. Pre-flowering stalk rot (Bacterial stalk rot)

A virulent isolate of *Dickeya zeae* corn pathotype should be selected for inoculation. To maintain the virulence of the bacterium, it should be inoculated on healthy plants and then reisolated every year before mass inoculation. In order to isolate a virulent strain, the inoculated plants showing characteristic symptoms of the disease are selected. A small piece of rotten internode is immediately dipped into mercuric chloride solution (1:1000) for 5 seconds and passed through three changes of sterile water. The piece is then cut into two halves with sterilized blade, put into little sterile water and then teased apart with sterile needle. The small quantities of resulting suspension are then removed with a flamed wireloop and streaked out on well dried nutrient agar plates, the aim being to separate the cells so that they produce individual colonies. The characteristic colonies are identified after 2 days of incubation at 30°C and used for subculturing. The culture is used for testing the pathogenicity. The cultures which induce the typical symptoms of the disease within 48 hours of inoculation are used for mass inoculation. The inoculum is increased for mass inoculation on nutrient broth for 48 hours at 30°C. The inoculum was diluted 10 times with sterile water to maintain a concentration of approximate $1X10^{7-9}$ bacteria/ml.

The inoculation may be carried out when the crop is at the pre-silking stage or until flowering has reached 75%. To inoculate the plants a diagonal hole is made in the middle of second internode from the ground to the pith. One milliliter of bacterial suspension is injected into the plant through the hole by a hypodermic syringe. If necessary, a second inoculation may be done one week later in the third internode from the ground**.** Percent disease incidence is recorded 15 days after sowing and the entries are classified as described by Lal and Singh (1984) for SDM.

9. Post-flowering stalk rots (Charcoal rot, Fusarium stalk rot and late wilt)

Screening for resistance against these diseases can is easily be done in sick plots. However, artificial inoculation is necessary where such plots are not available. For this purpose the fungal material should be isolated from the infected stalks, cultured and multiplied in the laboratory as described below.

Small bits cut from the infected stalks should be surface sterilized with 0.1 per cent mercuric chloride solution for one minute followed by washing in sterile distilled water. Finally a single bit is to be aseptically transferred to sterilized potato dextrose agar days at 26±2°C for

getting the fungal hyphae to come out from the infected bits. Finally, the fungal hyphae is to be aseptically transferred to culture tubes containing the sterile PDA medium and to be incubated for about 10 days to get the stock culture of the pathogen to be used for increase of the inoculum in the laboratory for field inoculation.

Among various methods of field inoculation, the toothpick inoculation is followed for these diseases under the coordinated programmes. Round bamboo toothpicks about 6.5 cm long are boiled three times (about 1 hour each time) in tap water to remove toxic substances. After each boiling these are thoroughly washed in fresh water and dried in the sun. When these are thoroughly dry, they are loosely packed in bundles and put into the glass jars/ bottles and enough potato dextrose broth (one- third length of toothpicks) is added to thoroughly moisten the toothpicks plus some quantity in the bottom of the jars. The jars with the toothpicks are autoclaved immediately after the broth is added. Later the sterilized toothpicks are inoculated with the culture of the pathogen aseptically. The growth of the fungus covers the toothpicks and inoculum is ready for use in about 10 days.

Inoculations should be made just after flowering stage of plants. For inoculating plants, the lower internode (second/third) above soil level is opened with a jabber and the toothpick is inserted into the hole. The jabber is made by driving a nail of the diameter of the toothpick into a wooden handle. The head of the nail is ground off to a point and to the desired length (2cm). The round toothpicks effectively seal the hole in the stalk and prevent drying. The measurement is based on the proportion of disease present in the inoculated internodes and its subsequent spread. For scoring disease severity of PFSR, 1-9 rating scale of All India Coordinated Maize Improvement Project (1983) is followed:

Rating scale	**Disease severity (%)**	**PDI**	**Disease reaction**
1.0	Healthy or trace/slight discolouration at the site of inoculation.	11.11	Resistant (Score: ≤ 3.0) (PDI: ≤33.33)
2.0	Up to 50% of the inoculated internode is discoloured	22.22	
3.0	51-75% of the inoculated internode is discoloured	33.33	
4.0	76-100% of the inoculated internode is discoloured	44.44	Moderately resistant (Score: 3.1- 5.0) (PDI: 33.34-55.55)
5.0	Less than 50% discolouration of the adjacent internode	55.55	
6.0	More than 50% discolouration of the adjacent internode	66.66	Moderately susceptible (Score: 5.1-7.0) (PDI: 55.56-77.77)
7.0	Discolouration of three internodes	77.77	
8.0	Discolouration of four internodes	88.88	Susceptible (Score: ≥ 7.0) (PDI: ≥ 77.77)
9.0	Discolouration of five or more internodes and premature death of plant	99.99	

10. Maize cyst nematode (*Heterodera zeae)*

Plant parasitic nematodes are responsible to causes 10.2% losses o maize. Though, large number of plant parasitic nematodes attacks on maize but maize cyst nematode (*Heterodera zeae*) is considered as most important and therefore, screening trials are carried out under artificially inoculated conditions in permanent plots to find out source of resistance against maize cyst nematode (*Heterodera zeae*). The observations on nematode infestation are recorded after 45 days of germination. The varieties/hybrids/ lines are categorized on the basis of cyst/plant as mentioned below:

S. No.	Number of cyst/plant	Category
1	0 - 4 cyst/plant	Resistant
2	Above 4 - 9 cyst/plant	Moderately Resistant
3	Above 9 cyst/plant	Susceptible

***Calculation of Percent Disease Index (PDI) of Foliar Diseases of Maize**

Percent disease index (PDI) is calculated using the following formula of Mckinney (1923).

Percent disease index (PDI) = $\frac{Sum\ of\ individual\ rating}{No.\ of\ leaves\ examined} \times \frac{100}{Maximum\ disease\ rating}$

On the basis of PDI, the inbred lines/ varieties/ hybrids can be classified as resistant (R), moderately resistant (MR), moderately susceptible (MS) and susceptible (S). The test inbred lines/ varieties/ hybrids with resistant reaction are considered acceptable for a breeding programme whereas test inbred lines/ varieties/ hybrids with moderately resistant are acceptable when lines with resistant reaction are not available.

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Annexure IV

Proforma for Submission of Proposals for Identification of Crop Varieties/ Hybrids by Workshops

Indian Council of Agricultural Research

Index

XX

Summary of Proposal (in bullets only)

Proforma for Submission of Proposals for Identification of Crop Varieties/ Hybrids by Workshops

1	Name of the crop and species	:	
2	a) Name of the variety under which tested in AICRP trials	:	
	b) Proposed name of the variety	:	
3	Sponsored by (institute)	:	
4	a) Institution or agency responsible for developing variety (with full address)	:	
	b) Name of the person who helped in the development of the variety Developers Collaborators	:	
5	a) Parentage (with details of its pedigree including source from which variety/Inbred/ A, B and R lines of hybrid has been developed)	:	
	b) Source of material in case of introduction	:	
	c) DNA profile of variety/hybrid/inbred/A, B, R line of hybrid vis-à-vis check variety/ line		
	d) Breeding method used	:	
	e) Breeding objective	:	
6	State the varieties which are most closely resemble the proposed variety in general characters	:	
7	Recommended productions ecology (Rainfed/Irrigated; high/low fertility; season)	:	
8	Specific area of its adaptation (zones and states for which variety is proposed) and recommended productions ecology	:	
9	Description of hybrid/variety	:	

	a) Plant height	:			
	b) Distinguishing morphological characters	:			
	c) Maturity (range in number of days) (from seedling/ transplanting to flowering, seed to seed)	:			
	d) Maturity group (early, medium and late wherever such classification exists)	:			
	e) Reaction to major diseases under field and controlled conditions (reaction to physiological strains/ races/pathotypes/ bio-types to be indicated wherever possible)	:			
	f) Reaction to major pests (under field and controlled condition including store pests)	:			
	g) Agronomic features (e.g. resistance to lodging, shattering, fertilizer responsiveness, suitability to early or late sown conditions, seed rate etc.)	:			
	h) Quality of produce	:			
	Grain quality	:			
	Fodder quality	:			
	i) Reaction to stresses	:			
10	Description of the parents of the hybrid	:	A line/Inbred 1	B line/Inbred 2	R line
	a) Plant height (cm)	:			
	b) Distinguishing morphological characters	:			
	c) Days to flowering	:			
	d) Days to maturity (range in number of days – from seed to seed)	:			
	e) Is there any problem of synchronization? If yes, method to overcome it	:			
	f) Reaction to major diseases	:			

	(under field and controlled conditions, reaction to physiological strains/ races/bio-types/ pathotypes to be indicated wherever possible)				
	g) Reaction to major pests (under field and controlled conditions including store pests)	:			
	h) Agronomic features (e.g. resistance to lodging, shattering, fertilizer responsiveness, suitability to early or late sown conditions, seed rate etc.)	:			
	i) Reaction to stresses	:			
11	a) Yield data in coordinated trials (breeding, agronomy, pathology, entomology, quality etc) regional/inter regional district trials year wise (levels of fertilizer application, density of plant population and superiority over local control/standard variety to be indicated (to be attached)	:			
	b) Yield data from national, demonstration/large scale demonstrations (to be attached)	:			
12	a) Agency responsible for maintaining breeder seed	:			
	b) Quantity of breeder seed in stock (kg) Variety A line B line R line Hybrid	:			
13	Specific recommendations, if any, for seed production (e.g. staggered sowing, plating ratio of parental lines of hybrids in foundation and certified seed production, probable area of	:			

	seed production)		
14	Vivid presentation (field view, close-up of single plant and seed/economic parts)		
15	Package of practices along with attainable yield levels		a) Sustainability of variety for the area; b) Selection of field/land preparation; c) Seed treatment; d) Sowing time; e) Seed rate/sowing method-line sowing with Row to row & Plant to Plant distance; f) Fertilizer doses; g) Weed control; h) Disease & Pest Control; i) Irrigation; j) Harvesting; k) Quality characteristics of the variety, if any
16	Any other pertinent information	:	

Signature of all contributors

Signature of Head of institution

Checklist for proforma for submission of proposal for Identification of Crop Varieties/ Hybrids by Workshops

Details/document	Attached	
Parentage with details of its pedigree including source from which variety/Inbred/A, B and R lines of hybrid has been developed	Yes	No
Source of material in case of introduction (IC/EC numbers provided by NBPGR)	Yes	No
Flow chart of details of development of variety/ parental lines of hybrids	Yes	No
Molecular/ DNA profile of variety/hybrid/A, B, R line of hybrid vis-à-vis check variety/ line (details of unique amplicons that distinguishing markers along with photographs	Yes	No
Detailed description of hybrid/variety	Yes	No
Detailed description of the parental lines of hybrid	Yes	No
Yield data and other data on diseases, insect-pest, quality etc. from coordinated trials	Yes	No
Yield data from national, demonstration/large scale demonstrations	Yes	No
Specific recommendations, if any, for seed production (e.g. staggered sowing, plating ratio of parental lines of hybrids in foundation and certified seed production, probable area of seed production etc.)	Yes	No
Vivid presentation (field view, close-up of single plant and seed) with the help of photographs of the variety)	Yes	No
Package of practices	Yes	No
Proforma signed by all co-authors and Head of Organization	Yes	No
Any other pertinent information	Yes	No

Signature of Head of Institution

Table 1. Summary yield data of Coordinated Varietal Trials

Name of proposed variety/Hybrid:----------						Adaptability Zone ----------				
						Production conditions----------				
	Year of testing	No. of trials/locations	Proposed variety	National Check 1	Zonal Check 2	Local check 3	Latest release Check 4	Qual. Var. 1	Qual. Var. 2	Qual. Var. 3
Mean yield (Q/ha) a) Zonal b) across Zones (If applicable)	1st year									
	2nd year									
	3rd year									
	Weighted Mean									
Percentage increase or decrease over the checks & qualifying varieties	1st year									
	2nd year									
	3rd year									
	Weighted mean									
Frequency in the top three group (pooled for three years)										

Note:

1. Qualifying variety is one which has completed three years of testing in coordinated trials
2. Centre- wise and year -wise data must be appended, otherwise proposal will not be considered

Table 2. Adaptability to Agronomic Variables

Name of proposed variety/Hybrid:----------					Adaptability Zone ----------				
					Production condition----------				
Nature of Expt.	Item	Proposed variety	National Check 1	Zonal Check 2	Local check 3	Latest release Check 4	Qual. Var. 1	Qual. Var. 2	Qual. Var. 3
Sowing date experiments	Yield (Q/ha) under recommended sowing date								
	Percentage gain or loss when sown	i)Early ii)Normal iii) Late							
Fertilizer experiments	Yield (Q/ha) under recommended dose								
	Percentage gain or loss under other doses	i) F_0 ii)F_1 iii) F_2							
Irrigation experiments (wherever applicable)	Yield (Q/ha) with adequate irrigation								
	Percentage gain or loss with irrigation level	i) Level 1 ii) Level 2 iii) Level 3							

Note: specify each date of sowing, fertilizer level and number of irrigations at i, ii, iii

Table 3. Reaction to major diseases

Name of proposed variety/Hybrid:----------					Adaptability Zone ----------					
					Production condition----------					
Disease name		Item	Proposed Variety	National Check 1	Zonal Check 2	Local check 3	Latest release Check 4	Qual. Var. 1	Qual. Var. 2	Qual. Var. 3
Disease 1	Natural	1st year								
		2nd year								
		3rd year								
	Artificial	1st year								
		2nd year								
		3rd year								
Disease 2	Natural	1st year								
		2nd year								
		3rd year								
	Artificial	1st year								
		2nd year								
		3rd year								
Disease 3	Natural	1st year								
		2nd year								
		3rd year								
	Artificial	1st year								
		2nd year								
		3rd year								
Disease 4	Natural	1st year								
		2nd year								
		3rd year								
	Artificial	1st year								
		2nd year								
		3rd year								

Table 4. Reaction to Insect Pests

Name of proposed variety/Hybrid:----------					Adaptability Zone ----------					
					Production condition----------					
Insect name		Item	Proposed Variety	National Check 1	Zonal Check 2	Local check 3	Latest release Check 4	Qual. Var. 1	Qual. Var. 2	Qual. Var. 3
Pest 1	Natural	1st year								
		2nd year								
		3rd year								
	Artificial	1st year								
		2nd year								
		3rd year								
Pest 2	Natural	1st year								
		2nd year								
		3rd year								
	Artificial	1st year								
		2nd year								
		3rd year								
Pest 3	Natural	1st year								
		2nd year								
		3rd year								
	Artificial	1st year								
		2nd year								
		3rd year								

Table 5. Data on Quality Characteristics

Quality Characterist.	Item	Proposed Variety	National Check 1	Zonal Check 2	Local check 3	Latest release Check 4	Qual. Var. 1	Qual. Var. 2	Qual. Var. 3
Parameter -1									
Parameter -2									
Parameter -3									
Parameter -4									

Note : Specify the parameters at 1 to 4 under first column

Table 6 Data on other important characters

Name of proposed variety/Hybrid:----------						Adaptability Zone ----------				
		Item	Proposed Variety	National Check 1	Zonal Check 2	Local check 3	Latest release Check 4	Qual. Var. 1	Qual. Var. 2	Qual. Var. 3
1.	Plant height	1st year								
		2nd year								
		3rd year								
2.	Days to flowering	1st year								
		2nd year								
		3rd year								
3.	Days to maturity	1st year								
		2nd year								
		3rd year								
4.	1000 grain weight	1st year								
		2nd year								
		3rd year								
5.	Lodging	1st year								
		2nd year								
		3rd year								
6.	Others	1st year								
		2nd year								
		3rd year								

Guidelines for Filling-up Proforma for Submission of Proposals for Identification of Crop Varieties/ Hybrids by the Workshops

1. Name of the crop and species

   The name given to the variety may be indicative of crop name, institute name/code, and number, if any.

2. Name of the variety under which tested

   This should include the name under which the variety was tested in coordinated trials.

3. Proposed name of the variety

   This should include the name of the variety that is being proposed for its commercial use as per existing guidelines.

4. Sponsored by (institute)

   This should include the name of the institute/organization that is sponsoring the variety

5. Institution or agency responsible for developing variety (with full address)

   Institute or organization where the variety was developed along with full address

6. Name of the person who helped in the development of the variety

   Only those workers should be included who have contributed in the development of variety/hybrid. The co-workers can be grouped in 2 categories as 'Developer' and 'Collaborator'**.** The co-worker should be associated with the project (from which cultivar has been developed) for a period of minimum of 2 years. The proposal should be signed by each of co-worker and validated by Head of Organization.

7. Parentage (with details of its pedigree including source from which variety/Inbred/ A, B and R lines of hybrid has been developed)

   This should essentially include the details of base population/ source of material used for developing the variety/parental lines of hybrid. Pedigree and parentage have to be furnished in detail as to how the parents have been developed with flow charts instead of just giving the code numbers. Flow chart should clearly depict the development of the proposed culture with year-wise details of attempting the initial cross followed by handling of segregating generation.

   The details of indigenous collection (IC) or exotic collection (EC) number of accessions (provided by NBPGR), if used, in the development of variety or parental lines of hybrids must be provided. Please note that this IC number is different from the one that is provided by NBPGR upon submission of seed sample of line/hybrid/variety once variety/ hybrid is recommended by the Variety Identification Committee (VIC).

8. Source of material in case of introduction

   Details of EC (Exotic collection) number provided by NBPGR for the imported material used in variety development.

9. DNA profile of variety/hybrid/inbred/A, B, R line of hybrid vis-à-vis check variety/ line

   Detailed information on the molecular discrimination should be provided. Such information can be developed at crop based institutes/NBPGR/Other labs. The information should include details of amplicons (name, sequence number, primer sequence) with reference to polymorphic markers. The relevant photographs should also be attached.

10. Breeding method used

    The method used in developing the variety/parental line

11. Breeding objective

    The breeding objective in the development of variety

12. State the varieties which are most closely resemble the proposed variety in general characters

    The information should include the name of the varieties that resemble most closely with proposed variety with reference to different phenotypic traits.

13. Specific area of its adaptation (zones and states for which variety is proposed) and recommended productions ecology

    The information on zones (name of the states), season and production conditions whether rainfed or irrigated should be mentioned.

14. Description of hybrid/variety

    The average and expected normal range with respect to various characters may be mentioned.

15. Description of the parents of the hybrid

    The average and expected normal range with respect to characters may be mentioned with reference to inbred/A line/ B line/ R line.

16. Yield data in coordinated trials (breeding, agronomy, pathology, entomology, quality etc) regional/inter regional district trials year wise (levels of fertilizer application, density of plant population and superiority over local control/standard variety to be indicated (to be attached)

    The yield data and other data of coordinated trials and other details as per the format of tables should be appended. Please note that mean is ‘weighted mean’ and not ‘arithmetic mean’.

17. Yield data from national, demonstration/large scale demonstrations (to be attached)

    The yield and other details as per the format of tables should be appended.

18. Agency responsible for maintaining breeder seed

Name of the institute/organization/agency that is responsible to maintain the breeder seed of variety/parental line of hybrid.

19. Quantity of breeder seed in stock (kg)

    Quantity (kg) of available seed with reference to variety, hybrid, inbred/ A/B/R lines of hybrid to be clearly indicated.

20. Information on acceptability of the variety by farmers/ consumers/ industry

    Any information on such aspects can be given

21. Specific recommendations, if any, for seed production (e.g. staggered sowing, plating ratio of parental lines of hybrids in foundation and certified seed production, probable area of seed production)

    The seed production technology and specific requirements should clearly be mentioned along with proposal. With respect to seed production of hybrid, the staggered sowing of parental lines, if required, should be clearly indicated. The planting ratio of male and female parents in the seed production plots should also be indicated. In addition, if there are some other precautions to be taken they are to be clearly mentioned. The probable area of seed production needs to be given.

22. Vivid presentation (field view, close-up of single plant and seed/economic parts)

    The proposal should invariably have coloured pictures with a clear field view of variety, a close-up of single plant and seed/economic part. Photograph of other plant parts which can be helpful in identification of varieties can also be given. The cover page of proposal should also have a coloured photograph of variety and should be well-designed.

23. Package of practices along with attainable yield levels

    A note on the package of practices of crop with respect to the variety needs to be provided particularly highlighting specific requirement of variety to realize its attainable yield levels.

24. Any other pertinent information

    Any other relevant information which is important with reference to variety, hybrid or parental lines of hybrids.

25. Others

- One-page ‘executive summary’ of proposal may be provided in the beginning highlighting the specific features of the variety/hybrid. Excessive presentation in executive summary needs to be avoided.
- Page numbers should be provided at each page of proposal.
- Check-list needs to be part of the proposal.

- The CVRC proposal should be scrutinized at the level of Project Coordinator/Project Director before submission to CVRC. PCs/PDs will provide their comments on the proposal to member secretary (CVRC).

Annual Maize Workshop-2016
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