Annual Progress Report

Kharif Maize

2019

भा मअनुसं
IIMR

All India Coordinated Research Project on Maize
ICAR-Indian Institute of Maize Research
PAU Campus, Ludhiana-141 004, India
www.iimr.icar.gov.in

भाकृअनुप
ICAR

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Breeding

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Summary of Breeding Trials, AICRP Kharif 2019

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, Telangana
Central West Zone (CWZ)	Rajasthan, Madhya Pradesh, Chhattisgarh, Gujarat

During *Kharif* 2019, 290 maize entries were evaluated in all India coordinated trials. Of 290 entries, 162 entries were evaluated in national initial varietal trial (NIVT), 46 in advance varietal trial-I (AVT-I), 21 in advance varietal trial-II (AVT-II), 16 entries in quality protein maize (QPM), and 27 in specialty corns trials (13 in baby corn, 11 in sweet corn, and 3 in popcorn), 10 in rainfed trials (late-2, Medium-4, and early- 4) and 8 in OPV trial. Of total entries received, 193 were contributed from public and 97 by the private sector. Thirty six breeding trials, including separate trials for NHZ were constituted in *Kharif* 2019. These comprised of NIVT (6), AVT (15), QPM (2) and specialty corns (5), rainfed (6) one each of OPV, quality trial were constituted for evaluation at 57 locations (31 regular and 26 volunteer) across country. Data received from was reviewed and analysed critically for yield and related traits. The performance of each variety was compared with 27 relevant checks varieties of different types and maturity. The test entries were promoted from first year (NIVT) to second year (AVT-I) and second year to third year 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 2.0 days in

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 analyze in self (TSS, Popping %) and chain crossed (Lys, Trp) kernels

v) In QPM, all entries were compared with the best check except for NHZ (Zone1) where the test entries found to be early based on criteria was compared with VIVEK QPM 9.

If CV value found more than 20% for a trial at 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 trials conducted under All India Coordinated Research project (AICRP) on Maize Improvement during *Kharif* 2019 are given below:

Detail numbers of test entries and checks evaluated in 36 different AICRP-breeding Trials during *Kharif* 2019:

Trial	No. of Entries	Checks Varieties	No. of Locations
NIVT (Early) NHZ	24	DKC7074,PMH5,Bio 605,Vivek Hybrid 45	6
NIVT (Medium) NHZ	18	DHM 121,Bio 9544,CMH08-292	6
AVT-I (Early) NHZ	2	Bio 605,DKC 7074,PMH5,Vivek Hybrid 45,LMH 5119	10
AVT-I (Medium) NHZ	4	Bio 9544,DHM 121,CMH08-292	9
AVT –II (Medium) NHZ	5	Bio 9544,DHM 121,CMH 08-292	10
QPM I-II-III (NHZ)	10	HQPM1,HQPM5,HQPM7,Vivek QPM 9,APQH9	7
QPM I-II-III (NWPZ, NEPZ, PZ and WZ)	16	HQPM1, HQPM5, HQPM7, Vivek QPM 9, APQH 9, PUSA HM 8 improved	24
Babycorn I-II-III (NHZ)	5	CMVL BC2, HM 4	7
Pop corn I-II-III (NHZ)	3	Shalimar Popcorn KDPC-2,VL Amber Popcorn, Bajaura Popcorn,KDPC-2	7
Sweet corn I-II-III (NHZ)	5	CMVL SC1, Misthi, Bajaura Sweet Corn, Punjab Sweetcorn-1	4
OPV (NHZ)	8	Bajaura Makka, Hemant,Vijay, Vivek Sankul	10
NIVT-Late Maturity	55	CMH 08-287, CMH 08-282, Bio 9682, NK 6240, CMH 08-292	22
NIVT-Medium Maturity	39	DHM 121, Bio 9544,CMH 08-292	30
NIVT-Medium Maturity-A	39	DHM 121, Bio 9544,CMH 08-292	30
NIVT-Early Maturity	28	Bio 605, DKC 7074, Vivek hybrid 51, Vivek hybrid 45	24
AVT-I Early (NWPZ)	2	DKC 7074,Bio 605, Vivek hybrid 51,Vivek hybrid 45, DHM 121	9
AVT-I Early (NEPZ)	5	Bio 605, DKC 7074,Vivek hybrid 45,	8
AVT-I Early (CWZ)	5	BIO 605, DKC 7074mVivek hybrid 51	12
AVT-I Early (PZ)	1	Bio 605, DKC 7074mVivek hybrid 45, Vivek hybrid 51, DHM 121,Bio 9544	18
AVT-I Medium (NEPZ)	8	Bio 9544, DHM 121,CMH 08-292	8

AVT-II Medium (NEPZ)	3	NK 6240, Bio 9682,CMH 08-287, CMH 08-282	8
AVT-I-II Medium (NWPZ)	15	BIO 9544,DHM 121,CMH 08-292	9
AVT-I-II Medium (CWZ)	7	Bio 9544,DHM 121,CMH 08-292	12
AVT-I-II Medium (PZ)	10	DHM 121, Bio 9544, CMH 08-292	18
AVT-I Late (CWZ)	2	NK 6240,Bio 9682,CMH 08-287, CMH 08-282,DHM 121	12
AVT-I-II Late (NWPZ)	22	NK 6240, Bio 9682, CMH 08-287	9
AVT-I-II Late (PZ)	6	NK 6240, Bio 9682, CMH 08-287	18
QPM I-II-III	16	HQPM1,HQPM5,HQPM7, PRATAP QPM HYBRID 1, Vivek Hybrid-27, APQH-9, VIVEK QPM 9, PUSA HM 8	24
QPM Quality	16	HQPM1,HQPM5,HQPM7, PRATAP QPM HYBRID 1, Vivek Hybrid-27, APQH-9, VIVEK QPM 9, PUSA HM 8	2 (IARI, Delhi and IIMR, Ludhiana)
Sweet Corn-I-II-III	11	Misthi, CMVL SC 1	24
Baby Corn-I-II-III	13	CMVL Babycorn 2, HM 4	24
Rainfed trial II-III-Late (PZ)	1	CMH 08-287, Bio 9682, CMH 08-282, NK 6240, DHM 117	2 (Karimnagar, Vagarai)
Rainfed trial II-III-Late (CWZ)	2	CMH 08-287, Bio 9544,Bio 9682, CMH 08-282, NK 6240, DHM 117	2(Godhra, Udaipur)
Rainfed trial- II-III Medium (PZ)	1	NK 6240, CMH 08-287, CMH 08-292, Bio 9544,DHM 121, DHM 117	2(Karimnagar, Vagarai)
Rainfed trial-II-III Medium (CWZ)	3	CMH 08-292, Bio 9544 DHM 121, DHM 117	2(Godhra, Udaipur)
Rainfed trial-II-III Early (PZ)	2	DKC 7074, Vivek hybrid 51, Vivek hybrid 45, Bio 605, DHM 117	2(Karimnagar, Vagarai)
Rainfed trial-II-III Early (CWZ)	3	DKC 7074, Vivek hybrid 51, Bio 605, DHM 117	2(Godhra, Udaipur)

Details of trials allotted to various testing centers:

Total of 57 locations (31 regulars and 26 volunteer) were identified for evaluation of thirty six different breeding trials. The details of trials allotted to various test centers during *Kharif* 2019 is given below:

S. No.	Centre	Address	Centre types	Total trial allotted
1	Almora	VPKAS, Almora	Regular	6
2	Bajaura	HPKVV, Bajaura	Regular	8
3	Barapani	NEH, Barapani	Regular	7
4	Kangra	HPKVV. Kangra	Regular	8
5	Srinagar	SKUAST, Srinagar	Regular	7
6	Gossaigaon	AAU, Jorhat	Regular	7
7	Imphal	CAU, Iroisemba, Imphal	Regular	8
8	Delhi	IARI	Regular	11
9	Ludhiana	PAU, Ludhiana	Regular	11
10	Karnal	CCSHAU, Uchani, Karnal	Regular	10
11	Panthnagar	GBPUAT, PantNagar	Regular	10
12	Dholi	RAU, Dholi	Regular	11
13	Ranchi	BAU, Ranchi	Regular	11
14	Bhubneshwar	OUAT, Bhubaneshwar	Regular	11
15	Varanasi	BHU, Varanasi	Regular	11
16	Bahraich	NDUAT, Bahraich	Regular	11
17	Sabour	BAU, Sabour, Bhagalpur	Regular	11
18	Kalyani	BCKV, Kalyani	Regular	2
19	Hyderabad	ANGRAU, Hyderabad	Regular	8
20	Karimnagar	ANGRAU, Karimnagar	Regular	11
21	Kolhapur	MPKV, Kolhapur	Regular	8
22	Dharwad	UAS, Dharward	Regular	8
23	Mandya	UAS, Mandya	Regular	8
24	Vagarai	TNAU, Vagarai centre	Regular	9
25	Coimbatore	TNAU, Coimbtore	Regular	8
26	Rahuri	MPKV, Rahuri	Regular	8
27	Peddpapuram	ANGRAU	Regular	8
27	Udaipur	MPUAT, Udaipur	Regular	13
28	Banswara	MPUAT, Banswara	Regular	10
29	Chindwara	JNKVV, Chhindwara	Regular	10
30	Ambikapur	IGKVV, Ambikapur	Regular	10
31	Godhara	AAU, Anand/Godhra	Regular	13
32	Dhaulakuan	HPKVV	Voluntary	3
33	Poonch	SKAUST-Jammu , Poonch	Voluntary	4
34	Rajauri	RARS, SKUAST-J & K	Voluntary	4
35	Aligarh	ZARS, Kalai Aligarh, UP	Voluntary	3
36	Kapurthala	Regional Research Station, PAU, Kapurthala,	Voluntary	3

		Punjab		
37	Gurdaspur	Regional Research Station, PAU, Gurdaspur, Punjab	Voluntary	3
38	Jhansi	ICAR- AICRP (Rapeseed & Mustard) Rani Lakshmi Bai Central Agricultural University Jhansi, Uttar Pradesh- 284003	Voluntary	3
39	Banda	AICRP, Maize Centre BUAT, Banda-210001 (Uttar Pradesh)	Voluntary	3
40	Koraput	High Altitude Research Centre, Pottangi, Koraput, Odisha	Voluntary	3
41	Medinipur	Krishi Bhawan ,PO Abash, Dist. Pascim Medinipur-721102, West Bengal	Voluntary	3
42	VRDC KSSC Dharwad	UAS, Dharward	Voluntary	3
43	Dhule	Agriculture research station, Agricultural college Dhule	Voluntary	3
44	Parbhani	Marathwada krishi vidyapeeth, Parbhani (Maharashtra)	Voluntary	3
45	Nasik	Agriculture Research Station, Niphad District Nasik	Voluntary	3
46	Devihosur	Agricultural Research Station, Mhanamanamatti-Karnataka	Voluntary	3
47	Arbhavi	Agricultural Research Station, Arbhavi, Gokak	Voluntary	3
48	Bhiloda	Maize Research Station,S.D. Agricultural University, Bhiloda- (Gujarat)	Voluntary	3
49	Dahod	Hillmett, Research Station, AAU, Farm Dahod	Voluntary	3
50	Ujjain	Regional Agricultural Research Station, Ujjain, M.P.	Voluntary	3
51	Kota	Agricultural Research Station, Ummedganj Kota, Raj	Voluntary	3
52	Jagadalpur	SG College of Agriculture and Research Station, Kumharawand, Jagadalpur (CG)	Voluntary	3
53	Chitrakoot	Mahatma Gandhi Chitrakoot Gramodya Vishwavidyalay, Chitrakoot, Satna	Voluntary	3
54	Buldana	Asstt.Prof. (Agril.Botany), ARS,Buldana-443001	Voluntary	3
55	Raichur	Professor (GPB), College of Agriculture, Bheemarayanagudi, 585287, Taluk: Shahapur, Dist: Yadgir	Voluntary	3
56	Shimoga	PI, Maize Improvement, ZAHRS, Shivamogga	Voluntary	3
57	Indore	CoA, Zonal Agriculture Research Station, Indore,M.P- 452001	Voluntary	3
Total				373

The different breeding trials were organized at 10 test locations in NHZ, 9 in NWPZ, 9 in NEPZ, 18 in PZ and 12 test locations in CWZ. All entries were tested under three maturity group viz., late, medium, and early (extra early clubbed with early). The success rate of NHZ for reporting of trials is low. The details of success rate in reporting the data from each zone is given below:

Detailed Report on Normal Corn

In AICRP, normal corn or field corns trials were conducted in three maturity groups (early, medium and late). As per technical programme a new test entry considered for evaluation in NIVT and if promoted then in AVT-I and AVT-II. The NIVT trials under early and medium maturity duration for North Hill Zone (NHZ) were conducted separately from rest of the zones. AVT trials were conducted zone wise. Due to large number of entries NIVT medium trial was conducted in two separate trials (675 & 676). In all the trials the data was recorded on eleven traits namely Initial plant stand (no./plot), days to 50% anthesis, days to 50% silking, days to 75% dry husk, plant height (cm) ear height (cm), final plant stand at harvest, cobs count at harvest, fresh cobs weight at harvest (kg/plot), grain moisture at the time of shelling (%), shelling percentage (%). Filler entry was also included where test entry and checks were less than five. Trial wise brief report of normal corn is presented below:

Zone(s)	Centers	Trials allotted	Trials reported	Percent Success
NHZ	Srinagar, Almora, Bajaura, Barapani, Kangra, Gossaingaon, Imphal, Poonch, Rajouri, Dhaulakuam,	62	57	92.0
NWPZ	Ludhiana, Karnal, Delhi, Pantnagar, Aligarh, Kapurthala, Gurdaspur, Jhansi, Banda	57	54	95.0
NEPZ	Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Sabour, Kalyani, Koraput, Medinapur,	74	71	96.0
PZ	Arabhavi, Buldana, Mandya, Karimnagar, Hyderabad, Coimbatore,Vagarai, Kolhapur, Peddapuram, Dharwad, VRDCKSSC, Shimoga, Devihosur, Dhule, Parbhani, Nasik, Rahuri, Raichur	103	94	91.0
CWZ (12)	Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Bhiloda, Dahod, Jagadalpur, Ujjain, , Kota, Chitrakoot, Indore	77	69	90.0
Overall		373	345	93.0

Trial No. 596 NIVT (Early)– Northern Hill Zone (NHZ)

In this trial, twenty-four test entries along with four checks namely Bio 605, DKC 7074, PMH 5 and Vivek hybrid 45 were tested at six locations namely (Barapani, Gossaingaon, Imphal, Kangra, Sri Nagar & Almora) in North Hill Zone (NHZ). The Three entries KMH 1815, KMH 1813 and FH 3912 out yielded the best check Bio 605 with yield superiority of 16.49%, 10.91%

Early Maturity

& 0.59% respectively. Grain yield of entries across location ranged from 5713 kg (H118) to 8279 kg/ha (KMH 1815) whereas, average grain yield of the location ranged from 5897 kg/ha (Kangra) to 11028 kg/ha (Imphal) with zonal mean 6487kg/ha. The data of Gossaingaon and Imphal was not taken into consideration to arrive final zonal yield due to high CV (>30%).

Trial No. 666 NIVT (Early)– NWPZ, NEPZ, CWZ

In this trial, twenty eight test entries were tested along with four checks Bio 605, DKC 7074, Vivek hybrid 45 and Vivek hybrid 51 in the three zones namely NWPZ (Delhi, Karnal, Ludhiana, Pant Nagar), NEPZ (Varanasi, Bhubaneswar, Dholi, Ranchi, Sabour) and CWZ (Ambikapur, Chindwara, Godhra, Udaipur). Among the test entries grain yield across location ranged from 2722 kg (AH3254) to 8963 kg/ha (DKC 7204) in NWPZ, from 4066 kg (AH3254) to 7204 kg/ha (DKC 7204) in NEPZ and from 1975 kg (DH 330) to 6979 kg/ha (DKC 7204) in CWZ. Location wise grain yield was highest at Pantnagar (8385kg/ha), Ranchi (7144 kg/ha) and at Chindwara (7460kg/ha) in NWPZ, NEPZ and CWZ respectively. The data of IARI in NWPZ, Sabour in NEPZ, Godhra and Udaipur in CWZ were not taken into consideration to arrive final zonal yield due to CV higher than the acceptable limits (>20%). Out of the twenty eight test entries, seven entries (DKC 7204, JH 32375, LMH 1946, AH 8622, AH 8178, AH 8323 & AH 1608) in NWPZ, thirteen entries (DKC 7204, JH 32328, AH 8178, AH 1608, LMH 1946, AH8622, AH8323, IMHSB 19K-1, JH 32385, JH 32375, EH 3571, JH 32391 & EH 3912) in NEPZ and four entries (AH 8323, DKC 7204, AH 8178 & AH 1608) in CWZ out yielded the best check DKC 7074. The DKC 7074 performed as the best check in all the three zones.

Trial No. 594 AVT-I (Early) – Northern Hill Zone (NHZ)

In this trial 2 entries FH 3875 and KH 17-89 along with one filler (LMH 5119) and four checks namely Bio 605, DKC 7074, PMH 5 and Vivek hybrid 45 were evaluated at ten locations namely Barapani, Gossaigaon, Imphal, Kangra, Sri Nagar, Rajouri, Poonch, Bajaura, Dhaulakuan & Almora in NHZ. The data of Gossaigaon was not taken into consideration to arrive final zonal mean yield due to high CV (38%). The test entry KMH-17-89 recorded lowest yield 4054kg/ha at Poonch and highest yield 11161 kg/ha at Bajaura. One test entry KMH 17-89 out yielded the best check Bio 605 with marginal yield superiority of 0.88%.

Trial No. 625 AVT-I (Early)– Northern West Plain Zone (NWPZ))

In this trial, two test entries AH88181 and JH32094 along with one filler (DHM 121) and four checks namely Bio 605, DKC 7074, hybrid 45 and Vivek hybrid 51 were evaluated at seven locations (Aligarh, Banda, Gurdaspur, New Delhi, Jhansi, Kapurthala, Karnal, Ludhiana & Pant Nagar) in NWPZ. In this trial no entry could perform better than the best check DKC 7074. The grain yield ranged from 4436.5 kg/ha (Gurdaspur) to 12699.0 (IARI) with average zonal grain yield 8260.7 kg/ha. The yield data of IARI, Delhi and Karnal resulted CV >20% therefore the data of these centre was not taken into consideration to arrive final zonal yield. The check entry Bio 605 showed very high yield (16861) which seems to be unrealistic indicating some error in data.

Trial No. 630 AVT-I (Early)— North East Plain Zone (NEPZ)

In this trial five entries FH 3861, FH 3879, JH 31950, JH 32056 and JH 32057 along with three checks namely Bio 605, DKC 7074 and Vivek hybrid 45 were tested at eight locations in NEPZ. Grain yield was ranged from 4675.3 kg/ha (Bahraich) to 8555.9 kg/ha (BHU) with zonal mean 6619.7 kg/ha. The data of Medinapur and Koraput was not taken into consideration to arrive final zonal yield due to high CV (30 %). Out of these five test entries, two entries FH 3879 and JH 32056 out yielded the best check (DKC 7074) with 10.99 and 4.89 % superiority.

Trial No. 647 AVT-I (Early)–Plain Zone (PZ)

One test entries FH 3879 along with two filler (DHM 121 and Bio 9544) and four checks namely Bio 605, DKC 7074, Vivek hybrid 45 and Vivek hybrid 51 were evaluated at fifteen locations in Peninsular Zone (PZ). The grain yield of test entry ranged from 2727 kg/ha (VRDC, Dharwad) to 13334 kg/has (Prabhani) with average zonal mean yield of 9086 kg/ha. The test entry could not perform better than the best check DKC 7074 in terms of yield.

Trial No. 640 AVT-I (Early)–Central West Zone (CWZ)

In this trial, five entries FH 3861, FH 3879, JH 32014, JH 32057 and JH 32094 along with three checks (Bio 605, DKC 7074 and Vivek hybrid 51) were tested at nine locations of CWZ. No entry could yield higher than the best check DKC 7074.

Medium maturity

Trial No. 582 NIVT (Medium)- NHZ

In this trial, 18 new entries (table 5) along with three checks *viz*. BIO 9544, CMH 08-292 and DHM 121 were evaluated in the NHZ at six locations namely Bajaura, Barapani, Gossaigaon, Imphal, Kangra & Sri Nagar. Out of the 18 test entries, five entries namely DKC 8209, DKC 8205, LMH 4219, LMH 4419 and KMH 1871 were promoted in the AVT-I. These entries outperformed the best check BIO 9544 with the yield superiority of 11.51%, 5.48%, 3.12%, 1.45% & 1.14% respectively.

Trial No. 675 NIVT (Medium)- NWPZ, NEPZ, PZ, CWZ

In this trial, 39 new entries (table 3) along with three checks *viz*. BIO 9544, CMH 08-292 and DHM 121 were evaluated across the country at 23 locations which covered five locations in central western zone, CWZ (Ambikapur, Banswara, Chhindwara, Godhra & Udaipur); six locations in north east plain zone, NEPZ (Varanasi, Baharaich, Bhubaneshwar, Dholi, Ranchi & Sabour); four locations in north west plain zone, NWPZ (New Delhi, Karnal, Pant Nagar & Ludhiana) and eight locations in peninsular zone, PZ (Coimbatore, Dharwad, Hyderabad, Karim Nagar, Kolhapur, Mandya, Peddapuram and Rahuri). Out of the 39 test entries, eight entries namely JH 18064, JH 18065, AH 8452, IMHL-K-19-1, OMH17-19, AH1625, AH4142 & KNMH 4191 for the north western plain zone; five entries namely BH 417182, OMH17-19, CMH-12-686, JH 18064 & JH 18065 for north east plain zone; nine entries namely BH 417182, JH 18064, AH 8452, CMH-12-686, BH 417193, JH 18065, LMH 44119, AH 8245R & KNMH 4192 for Peninsular zone and three entries JH 18064, JH 18065 & CMH-12-686 for central western zone were promoted for the AVT-I. These entries outperformed the best check BIO 9544 in NWPZ, PZ & CWZ while in NEPZ, CMH 08-292 performed as best check which was outperformed by the promoted entries.

Trial No. 676 NIVT (Medium)- NWPZ, NEPZ, PZ, CWZ

In this trial, 39 new entries (table 4) along with three checks *viz*. **BIO 9544**, **CMH 08-292** and DHM 121 were evaluated across the country at 23 locations which covered five locations in central western zone, CWZ (Ambikapur, Banswara, Chhindwara, Godhra & Udaipur); six locations in north east plain zone, NEPZ (Varanasi, Bhubaneshwar, Dholi, Ranchi & Sabour); four locations in north western plain zone, NWPZ (New Delhi, Karnal, Pant Nagar & Ludhiana) and eight locations in peninsular zone, PZ (Coimbatore, Dharwad, Hyderabad, Karim Nagar, Kolhapur, Mandya, Peddapuram and Rahuri). Out of the 39 test entries, one entry namely IMHSB-19K-11 for NWPZ, five entries namely DKC 8209, GK 3207, SYB 916248, HM 19305 AND IMHSB-19K-2 for NEPZ, three entries namely NMH 4144, HM 19305 & IMHVS-101 for PZ and three entries namely JKMH 1481, NMH 4144 & HM 19305 for CWZ were considered for promotion in the AVT-I. These entries outperformed the best check BIO 9544 in NWPZ, PZ & CWZ while in NEPZ, CMH 08-292 performed as best check which was outperformed by the promoted entries for this zone.

Trial No. 590 AVT -I (Medium)- NHZ

In this trial, four entries (table) along with three checks *viz*. BIO 9544, CMH 08-292 and DHM 121 were evaluated in the northern hill zone at nine locations namely Bajaura, Barapani, Dhaulakuan, Gossaigaon, Imphal, Kangra, Poonch, Rajouri & Sri Nagar. Out of the 4 test entries, two entry namely DKC 9190, DKC 8191 were considered for promotion in the AVT-I with yield superiority of 9.97% & 4.46% respectively over the check BIO 9544.

Trial No. 620 (AVTII-Medium maturity)-NHZ- Normal corn

In this trial, five test entries (table) along with three checks *viz*. BIO 9544, CMH-08-292 and DHM 121 were evaluated in the north hill zone at six locations namely Bajaura, Barapani,

Dhaulakuan, Imphal, Kangra and Rajouri. In this trial, none of the five entries could out yield the best check BIO 9544.

Trial No: 634 (AVT-I-II-Medium) NWPZ- Normal corn

In this trial, 15 entries (table) along with three checks *viz*. **BIO 9544**, **CMH 08-292** and DHM 121 were evaluated in the north west plain zone at seven locations namely Aligarh, Gurdaspur, New Delhi, Kapurthala, Karnal, Ludhiana & Pant Nagar. Out of the 15 test entries, three entry namely DKC 9190, DKC 9194 & KMH004 were promoted in the AVT-II with yield superiority of 12.49%, 7.92% & 4.69% respectively over the best check BIO 9544.

Trial No: 635 (AVT-II-Medium) NEPZ- Normal corn

In this trial, three entries (table) along with four checks *viz*. BIO 9682, CMH 08-282, CMH 08-287 and NK 6240 were evaluated in the north east plain zone at eight locations namely Varanasi, Baharaich, Bhubaneshwar, Dholi, koraput, Medinapur, Ranchi & Sabour. The yield data of Koraput & Medinapur was not considered due to its high CV. Out of the three test entries, one entry namely CP858 significantly out yielded the best check CMH 08-287 with yield superiority of 10.95%.

Trial No: 644 AVT-I-II-(Medium) PZ

In this trial, ten entries (table) along with three checks *viz*. BIO 9544, CMH 08-292 and DHM 121 were evaluated in the peninsular zone at 15 locations namely Buldana, Coimbatore, Dharwad, Dhule, Hyderabad, Karim Nagar, Kolhapur, Mandya, Niphad, Prabhani, Peddapuram, Rahuri, Raichur, VDRC Dharwad & Vagarai. The yield data of Niphad & VDRC Dharwad was not considered to arrive at final mean due to high CV. Out of the ten test entries, four entries namely JKMH 15303, JKMH 1518, DKC 9194 & HT 18607 were promoted to AVT-II as these entries significantly out yielded the best check BIO 9544 with yield superiority of 11.27%, 10.8%, 9.96% & 6.09% respectively. The mean yield of best check BIO 9544 was 9637 kg/ha while these promoted entries JKMH 15303, JKMH 1518, DKC 9194 & HT 18607 had mean yield of 10722 kg/ha, 10680 kg/ha, 10597 kg/ha, & 10224 kg/ha respectively.

Trial No: 642 AVT-I-II-(Medium) CWZ

In this trial, seven entries (table) along with three checks *viz*. BIO 9544, CMH 08-292 and DHM 121 were evaluated in the central west zone at nine locations namely Ambikapur, Banswara, Bhilwara, Chhindwara, Chitrakoot, Dahod, Godhra, Jagdalpur & Kota. The yield data of Dahod was not considered to arrive at final mean due to high CV. Out of the seven test entries, five entries namely BH 416215, SYN 816604, BH 416032, MM9309 & RCRMH 2 were promoted to AVT-II as these entries significantly out yielded the best check BIO 9544 with yield superiority of 7%, 4.385, 3.33%, 2.49%, 1.99% respectively. The mean yield of best check BIO 9544 was 6825 kg/ha while these promoted entries BH 416215, SYN 816604, BH 416032, MM9309 & RCRMH 2 had mean yield of 7303 kg/ha, 7124 kg/ha, 7052 kg/ha, 6995 kg/ha & 6960 kg/ha respectively.

Late Maturity

Trial No. 680 NIVT (Late)- NWPZ,NEPZ,PZ, CWZ

In this trial fifty five test entries were tested along with one filler CMH 08292 and four checks Bio 9682, CMH 08-282, CMH 08-287 and NK 6240. The trial was conducted at 23 location in four zones namely NWPZ (Delhi, Karnal, Ludhiana, Pantnagar), NEPZ (BHU, Bhubaneswar, Baharaich, Dhauli, Ranchi, Sabour), PZ (Coimbatore, Dharwad, Hyderabad, Karimnagar, Kolhapur, Mandya Peddapuram, Rahuri) and CWZ (Ambikapur, Banswara, Chindwara, Godhra, Udaipur). Seven entries in NWPZ, eight in NEPZ, 17 in PZ and nine in CWZ out yielded the best check. The best check were CMH 08-287, NK 6240, CMH 08-282, Bio 9682 in NWPZ, NEPZ, PZ and CWZ respectively.

Trial No. 629 AVT-I +II (Late)–North West Plain Zone (NWPZ)

This trial was conducted consolidating entries of AVT-I and AVT-II. Twenty two test entries along with three checks (Bio 9682, CMH 08-287 and NK 6240) were tested at seven locations in North West Plain Zone (NEPZ). Thirteen entries of AVT-I namely ADV 7132, BLH 137, Bio 534, JH 16224, JH 17026, JKMH 150375, KMH 005, PM 18101 L, PM 18104 L, PM 18105 L, PM 18106 L, SYN816514, TS 2505 and nine entries of AVT-II namely ADV 1390164, B57, Bio 218, CP 858, HT 17169, SUPER 1818, JH 16081, KMH 463, JH 16041were included in this trial.

Trial No. 641 AVT-I +II(Late)– Central West Zone (CWZ)

In trial no 641 only two test entries with one filler (DHM 121) and four checks (Bio 9682, CMH 08-282, CMH 08-287 and NK 6240) were tested at ten locations in Central West Zone (CWZ). Out of two test entries only one entry PM 18106L was out yielded the best check NK 6240 with marginal superiority 0.76%.

Trial No. 654 AVT-II (Late)–Plain Zone (PZ)

In trial no 654 six test entries with three checks (Bio 9682, CMH 08-287 and NK 6240) were tested at thirteen locations in Plain Zone (PZ). Out of these six entries, four were in AVT-I (BLH 137, PM 18101L,PM 18106L and JKM 152375) and two were in AVT-II (ADV 1390064 and Rasi 4992)..

Trial No. 600 (OPV)- NHZ

In this trial, eight entries (table 41) along with four checks *viz*. Bajaura makka, Hemant, Vijay & Vivek Sankul 35 were evaluated in the north hill zone at nine locations namely Bajaura, Barapani, Gossaigaon, Imphal, Kangra, Poonch, Rajouri Sri Nagar and Almora. The yield data of Gossaigaon & Imphal was not considered for final arrival of mean due to high CV. Out of the 8 test entries, two entry namely L316 & L317 were promoted from NIVT to AVT-I with yield superiority of 18.8% & 1.2 % respectively over the best check Bajaura makka and one entry L315 was promoted from AVT-I to AVT-II with yield superiority of 23.58 % over the best check Bajaura makka.

Rainfed Trials

Trial No. 699 NIVT (Rainfed-early)- PZ

In this rainfed early maturity trial, two entries viz. ADH 1619, ADH 8106, along with one filler DHM 117 and four checks *viz*. BIO 605, Vivehk hybrid 45, Vevek hybrid 51 and DKC 7074 were evaluated in the Peninsular zone at two locations namely Karimnagar and Vagarahi. Since, no test entry could beat the best check BIO 605 due to which none were considered for promotion.

Trial No. 700 (Rainfed –Early) - CWZ

In this rainfed early maturity trial, two entries viz. ADH 8106, ADH 8127, along with one filler DHM 117 and four checks *viz*. BIO 605, Vivehk hybrid 45, Vevek hybrid 51 and DKC 7074 were evaluated in the Central west Zone at two locations namely Godhra and Udaipur. Although both the entries out yielded the best Check Vivek hybrid 51 but due to delayed days to 50% anthesis non could be considered for promotion.

Moisture percent: Moisture percent was at par ni both the entries at Udaipur whereas entry ADH 8127 had less moisture percent at Godhra. (14.9) than ADH 8106 (16.2).

T**rial No. 702 (Rainfed-Medium) CWZ**

In this rainfed medium maturity trial, three entries viz. CAH1511, RCRMH7(ZH138388) & VaMH 15036 along with one filler DHM 117 (table 32) and three checks *viz*. BIO 9544, CMH-08-292 and DHM 121 were evaluated in the central western zone at two locations namely Godhra and Udaipur. Since, no test entry could beat the best check BIO 9544 due to which none were promoted in the next level of testing.

Trial No. 703 (Rainfed-Medium) PZ

In this rainfed medium maturity trial, one entry OMH14-27 along with three filler DHM 117, NK 6240 & CMH 08 287 (table 31) and three checks *viz*. BIO 9544, CMH-08-292 and DHM 121 were evaluated in the Peninsular Zone at two locations namely Karim Nagar and Vagarai. The yield data of Karim Nagar was not considered as it was lower than the state average yield. Since, the test entry could not beat the check due to which it was not promoted in the next level of testing.

Trial No. 765 (RF-Normal- early) - PZ

In this RF-normal early maturity trial, two entries viz. ADH 1619, ADH 8106, along with one filler DHM 117 and four checks *viz*. BIO 605, Vivehk hybrid 45, Vevek hybrid 51 and DKC 7074 were evaluated under normal condition in the Peninsular zone at two locations namely Karimnagar and Vagarahi. Since, no test entry could beat the best check BIO 605 due to which none were considered for promotion.

Trial No. 769- (RF- normal-Early) - CWZ

In this RF-normal early maturity trial, two entries viz. ADH 8106, ADH 8127, along with one filler DHM 117 and four checks *viz*. BIO 605, Vivehk hybrid 45, Vevek hybrid 51 and

DKC 7074 were evaluated under normal condition in the Central west Zone at two locations namely Godhra and Udaipur. None of the test entry out yielded the best Check DKC 7074.

Trial No. 766 (RF-Normal-Medium) CWZ

In this rainfed normal medium maturity trial, three entries viz. CAH1511, RCRMH7(ZH138388) & VaMH 15036 along with one filler DHM 117 (table 38) and three checks *viz*. BIO 9544, CMH-08-292 and DHM 121 were evaluated in the Central Western Zone at two locations namely Godhra and Udaipur. Out of the three test entries, one entry CAH 1511 out yielded the best check BIO 9544.

Trial No. 767 (RF-Normal-Medium) PZ

In this rainfed normal medium maturity trial, one entry OMH14-27 along with three filler DHM 117, NK 6240 & CMH 08 287 (table 37) and three checks *viz*. BIO 9544, CMH-08-292 and DHM 121 were evaluated in the Peninsular Zone at two locations namely Karim Nagar and Vagarai. The yield data of Karim Nagar was not considered as it was lower than the state average yield. The test entry OMH14-27 out yielded the best check DHM 121 in this trial.

Trial No. 768 (RF-Normal -late)- CWZ

In this RF-normal medium maturity trial, two test entry CMH 12-686 and CMH 15-005 along with one filler DHM 117 and four checks *viz*. BIO 9622, CMH-08-282, CMH-08-287 and NK 6240 were evaluated in the Central west Zone at two locations namely Godhra and Udaipur under normal condition.

Trial No. 770 (RF-Normal-late) -PZ

In this RF- normal medium maturity trial, one entry CMH15-005 along with two filler DHM 117 Bio 9544 and four checks *viz*. BIO 9622, CMH-08-282, CMH-08-287 and NK 6240 were evaluated in the Peninsular Zone at two locations namely Karim Nagar and Vagarai under normal condition.

Quality Protein Maize (QPM I-II-III)

There were two quality trials namely QPM I-II-III (Trial no 586 for NHZ) and QPM I-II-III (Trial no 688 for NWPZ, NEPZ, PZ and WZ) were conducted during Kharif, 2019. The data was recorded for grain yield, plant height, ear height,50 % anthesis, 50% silking , no of cobs, plant stand, 75 % dry husk, moisture and shelling percentage. The percent superiority over the check entries was also calculated for each entry. The details of each of the trial is given below:

Trial no 586 (QPM-I-II-III) for NHZ

In this trial 8 QPM and two Pro-vit A entries were evaluated against four QPM checks (HQPM !, HQPM 5, HQPM 7 and Vivek QPM 9)and Pro-Vit. A check (APQH 9) at six

locations namely Srinagar, Bajaura, Almora, Barapani, Gossaingaon and Imphal. Out of eight QPM test entries, seven entries (FQH140, FQH 160, FQH 165, LQPMH 119, LQPMH 219, LQPMH 319 and SQPMH 2 were tested in NIVT and one entry (LQPMH 118) in AVT I. Both of the Pro-vit. A entries namely, APH 1 and APQH 1 were tested in AVT II. The details of the zonal values of different traits for all the entries are given in table below. The The average grain yield of QPM entries ranged from 5904 kg/ha to 8432 kg/ha. FQH 160 was observed as the best performing entry with grain yield of 8432 kg/ha whereas SQPMH 2 gave least yield of 5904 kg/ ha. Both Pro-Vit. A entries performed better than the check APQH 9.I this zone Vivek QPM 9 was the best check, therefore for promotion the entries found superior over Vivek QPM 9 were considered for promotion.

Trial no 688 (QPM-I-II-III) for NWPZ, NEPZ, PZ and WZ

Trial no 688 was conducted in NWPZ, NEPZ, PZ and CZ. In this trial 11 QPM entries were tested against five checks (HQPM 1, HQPM 5, HQPM 7, Partap QPM 1 and Vivek QPM 9). Out 11 test entries three entries namely IIMRQPMH 1705, IIMRQPMH 1708 and VEHQ 16-1 wherein AVT II, four entries namely IQPMH 18-2, IQPMH 18-4, QPMMH 51 and FQH 148 were in AVT I and four entries namely IQPMH-19-1, IQPMH-19-2, IQPMH-19-3 and IQPMH-19-4 were in NIVT. Among Pro-Vit.A five entries namely APH1, APH 2, APH 3 , APHQ 1 and APHQ 8 were tested against APQH 9. In NWPZ the trial was conducted at IARI New Delhi, Karnal, Ludhiana and Pantnagar. IIMRQPMH 1705 was observed as the best entry with grain yield of 7895 kg/ha and IQPMH-19-3 was found the least yielding entry with a grain yield of 6197 kg/ha. Among Pro-Vit.A five entries were tested against check APHQ 9. APHQ 1 was observed as the best performing entry with grain yield of 7257 kg /ha and APQH 9 was the least performing entry with a grain yield of 6522 kg/ ha. HQPM 5 was the best performing QPM check, therefore, the entries found superior than HQPM 5 were considered for promotion in this zone. In NEPZ zone the trial was conducted at Varanasi, Baharich, Bhubneshwar, Dholi, Ranchi and Sabour. In this trial grain yield of QPM ranged from 5399 kg/ha to 6702 kg/ha. The entry VEHQ 16-1 was adjudged as best entry with grain yield of 6702 kg/ha whereas Partap QPM 9 aws the least yielding with a grao=in yield of 5399 kg.ha. Among Pro-vit.A group APH 3 was observed as best performing entry with grain yield of 6651 kg/ha and APQH 9 was the least performing entry with grain yield of 4936 kg/ha. In peninsula zone the trail was conducted at Coimbatore, Vagarai, Dharwad, Mandya, Kolhapur, Rahuri, Hyderabad, Karim Nagar and Peddapuram. The grain yield of QPM entries ranged from 6823 kg/ha to 8790 kg/ha. HQPM 7 was adjuged as the best performing entry with grain yield of 8790 kg/ha and Vivek QPM 9 was the least yielding entry with grain yield of 6823 kg/ha. Among Pro-vit.A entries the grain yield ranged from 6765 kg/ha to 8577 kg/ha. APQH 1 was observed as best performing entry with 8577 kg/ ha and APQH 9 was the least yielding entry with grain yield of 6765 kg/ha. In QPM group HQPM 7 was the best performing check and ranked no 1 in the trial , hence no QPM entry was promoted in this zone.In Central Zone the trial was conducted at Ambikapur, Chindwara, Banswara, Udaipur and Godhra. The grain yield of QPM entries ranged from 4557 kg/ha to 6929 kg/ha. IIMRQPMH 1708 was adjudged the best performing QPM entry with grain yield of 6929 kg/ha whereas, Vivek QPM 9 was the least performing QPM genotype with grain yield of

4557 kg /ha. Among Pro-vit.A ,APH 3 was observed as best performing entry with grain yield of 6372 kg/ha and APQH 9 was the least performing entry with grain yield of 4267 kg/ ha. In this trial HQPM 7 was the best performing check and the entries superior to HQPM 7 were considered for promotion.

Specialty Corns

Baby corn, Sweet corn and pop corn are covered under spcielty corns and the data generated in locations with >30% CV in NHZ and CWZ and >20% CV in NWPZ, NEPZ and PZ were not considered for calculating the zonal average mean. In addition, entries were promoted based on minimum three locations data per zone with acceptable level of CV.

Baby Corn Trials

There are two trials of baby corn namely BC-NHZ (Trial No. 588) and BC-I,II,III (Trial No.662) conducted during kharif-2019. The details of each of the trials are given below.

Trial No. 588 - Baby Corn – Northern Hill Zone (BC-NHZ)

In the trial five test entries were evaluated against two checks namely Central Maize VL Baby Corn-2 (CMVLBC-2) and HM-4 at seven locations namely Srinagar, Kangra, Bajaura, Almora, Gossaigaon, Barapani and Imphal. Out of five test entries, three entries (DBCH-326, LBCH-119 and LBCH-219) were in NIVT and remaining two entries (AH-5021 and AH-7043) were in AVT-III. The data on 10 traits namely baby corn yield, baby corn with husk yield, total number of baby corn harvested, days to 50% silking, days to 50% anthesis, plant height, fodder yield, baby corn diameter, baby corn length and final plant stand were recorded. The per cent superiority over the check entries for baby corn yield and baby corn with husk yield was also calculated for each test entries. The details of the zonal average values of different traits and/or entries are briefly given below.

a) Morphological Traits

Baby corn yield (Kg/ha): The average baby corn yield varied from 1235 Kg/ha (AH-5021) to 1894 Kg/ha (LBCH-119). The baby corn yield of check entries namely CMVLBC-2 and HM-4 were 1893 Kg/ha and 1605 Kg/ha. The CV at two locations namely Gossaigaon and Imphal was 32.7 and 37.0 per cent thus were not considered for calculating the zone mean of baby corn yield.

Baby corn with husk yield (Kg/ha): The average baby corn with husk yield varied from 4066 Kg/ha (AH-5021) to 7183 Kg/ha (LBCH-119). The baby corn with husk yield of check entries namely CMVLBC-2 and HM-4 were 7055 Kg/ha and 5717 Kg/ha. The Imphal centre CV was 37.0% thus not considered for calculating zone mean of baby corn with husk yield.

Days to 50% silking (Days): The average number of days to 50% silking varied from 58.5 (LBCH-119) to 64.6 (DBCH-326) across entries, whereas in check entries it was 59.2 (CMVLBC-2) 62.9 (HM-4) days.

Days to 50% anthesis (Days): The young unfertilized ear with just emerged silk of 4-5 cm is called baby corn and all the centres are advised for compulsory detasseling to maintain the

quality of baby corn. Thus recording observation on days to 50% anthesis is quite ambiguous; even in male-sterile genotypes also the trait is not manifested unambiguously. Therefore this trait was not recorded at Bajaura and Almora; the decision may be taken in the coming annual meeting to maintain the uniformity in data recording. However, the days to 50% silking varied from 53.1 (LBCH-119) to 58.7 (AH-7043) days, whereas in check entries it was 54.6 (CMVLBC-2) 57.5 (HM-4) days.

Plant height (cm): The plant height trait is also quite ambiguous unless the entry is male-sterile. Therefore the decision may be taken in the coming annual meeting regarding is it necessary to record the plant height data in baby corn trial? However the trait varied from 170 cm (CMVLBC-2) to 196 cm (AH-5021).

Total number of baby corn harvested (no./ha): The number of total baby corn harvested varies from 122468 (AH-5021) to 226274 (LBCH-119). The CV at two locations namely Gossaigaon and Imphal was 31.0 and 33.3 per cent thus were not considered for calculating the zone mean.

Final plant stand (no./ha): The final plant stand at harvest was varied 48059 (AH-5021) to 97989 (CMVLBC-2). The CV at Gossaigaon was 43.9 indicates vitiation in the trial management.

b) Biomass Traits

Fodder weight (Kg/ha): The fodder weight varies from 18240 Kg/ha (AH-5021) to 34015 Kg/ha (LBCH-119). The fodder yield of check entries was 24852 and 22124 for CMVLBC-2 and HM-4 respectively.

c) Quality Traits

Baby corn diameter (cm): The average baby corn diameter varied from 1.6 cm to 1.8 cm, it was 1.7 cm in both check entries. The Kangra centre probably recorded baby corn circumference rather than diameter. Therefore, the centre is suggested to record observation on baby corn diameter in future so that the effect of such aberration in the data can be avoided in future.

Baby corn length (cm): The average baby corn length varied from 8.3 cm (LBCH-119) to 9.2 cm (AH-7043). The length varies from 8.7-9.0 cm in check entries.

d) Conclusions

The best check for baby corn yield in NHZ was CMVLBC-2 followed by HM-4 with 1893 Kg/ha and 1605 Kg/ha respectively. Among the test entries only LBCH-119 has shown marginal numerical superiority over the best check by 0.02%, further the fodder yield of LBCH-119 was significantly higher (34015 Kg/ha) as compared to best check, CMVLBC-2 (24852).

Trial No. 662 - Baby Corn – NIVT, AVT-I, AVT-II (BC-I-II-III)

Trial was conducted at four zones namely North Western Plain Zone (NWPZ), North Eastern Plain Zone (NEPZ), Peninsular Zone (PZ), Central Western Zone (CWZ). The number of locations in which the trial was conducted in NWPZ, NEPZ, PZ and CWZ were four (New

Delhi, Karnal, Ludhiana, Pantnagar), seven (Varanasi, Bahraich, Bhubaneshwar, Dholi, Kalyani, Ranchi, Sabour), eight (Coimbatore, Dharwad, Hyderabad, Karimnagar, Kolhapur, Mandya, Peddapuram and Rahuri) and four (Ambikapur, Chhindwada, Godra and Udaipur) respectively. There were 13 test entries and two check entries (CMVLBC-2, all zones except NEPZ and HM-4, for all zones); out of 13 test entries seven were in NIVT (AHB-7985, BAU-BCH-18-1, DBCH-326, IMHSB-19KB-1, IMHSB-19KB-2, ABHS4-1 and ABHS4-2), three each in AVT-I (AH-7188, AH-7204, LMH-3517) and AVT-II (AH-5021, AH-7043, PAC-321). Out of seven entries in NIVT, two entries were Essentially Derived Hybrids/Varieties (EDH/Vs), a male sterile version of HM-4. The traits on which the data recorded are same as mentioned under trial 588, the details of the zonal average values of different traits and/or entries are briefly given below.

a) Morphological Traits

Baby corn yield (Kg/ha): CMVLBC-2 was highest yielding check entry in PZ (2700 Kg/ha) and CWZ (2125 Kg/ha), whereas HM-4 shown highest yield in NWPZ (2081 Kg/ha). In NEPZ, even though CMVLBC-2 was highest yielding check entry but since it is not released and notified for the zone, by default HM-4 was considered as check entry to compare the superior entries. The mean baby corn yield of test entries in NWPZ, NEPZ, PZ and CWZ varied from 1276 Kg/ha (AH-7043) to 2196 Kg/ha (AH-7204), 1949 Kg/ha (AH-7043) to 3365 Kg/ha (AH-7188), 1934 Kg/ha (AH-5021) to 3301 Kg/ha (AHB-7985) and 285 Kg/ha (AH-5021) to 2306 Kg/ha (AH-7188) respectively. However the number of locations with acceptable CV (<20%) in NEPZ and PZ were only one location each namely Bahraich and Coimbatore out of six and eight locations of the respective zones respectively, whereas in CWZ, the CV in two (Ambikapur and Chhindawada) out of four locations was acceptable (<30%). However no test entries were promoted to next stage of testing in NEPZ, PZ and CWZ as the data of number of locations per zone were less than three; the promotion criteria requires at least three locations data per zone to promote. Therefore re-testing of all the entries in all the three zones was suggested in Kharif-2020. In NWPZ, two test entries in NIVT namely ABHS4-1, ABHS4-2 have shown statistically comparable yield level of its initial variety/hybrid, HM-4, whereas one entry, AH-7204 evaluated under AVT-I was found superior over the best check HM-4.

Baby corn with husk yield (Kg/ha): The baby corn with husk yield of test entries in NWPZ, NEPZ, PZ and CWZ was ranged between 3275 Kg/ha (AH-7043) to 7061 Kg/ha (PAC-321), 8187 Kg/ha (ABHS4-1) to 10490 Kg/ha (AH-7188), 5617 Kg/ha (BAUBCH-18-1) to 8342 Kg/ha (AHB-7985) and 1086 Kg/ha (AH-5021) to 7065 Kg/ha (AH-7188) respectively.

Days to 50% silking (Days): The mean zonal range of days to 50% silking across all zones was 8 days (50-58), whereas within zone range of days to 50% silking in NWPZ, NEPZ, PZ and CWZ was five days in NWPZ (50-55) and NEPZ (51-56) and six days in PZ (52-58) and four days in CWZ (50-54),

Days to 50% anthesis (Days): The average zonal range of days to 50% anthesis across the zones was 15 days (45-60 days). However it was five days in NWPZ (45-50), NEPZ and CWZ (50-55) and six days in PZ (50-56). The ambiguity of this trait is already discussed under trial 588 (BC-NHZ).

Plant height (cm): The trait ambiguity is already explained in trial no. 588, however the plant height ranged from 118 cm (AH-7043 in NEPZ) to 281 cm (IMHSB-19KB-2 in NWPZ) across the zones. The average zonal plant height was 237 cm, 151 cm, 149 cm and 159 cm in NWPZ, NEPZ, PZ and CWZ respectively.

Total number of baby corn harvested (no./ha): The zonal average number of baby corn harvested in NWPZ was 100926 (AH-5021) to 192806 (PAC-321); 14776 (ABHS4-1) to 182292 (IMHSB-19KB-2) in NEPZ, 128250 (BAUBCH-18-1) to 201389 (PAC-321) in PZ, 26157 (AH-5021) to 184491 (AH-7188).

Final plant stand (no./ha): The average zonal plant stand in different zones ranged between 57293 (AH-5021) to 92936 (CMVLBC-2) in NWPZ, 98206 (LMH-3517) to 105729 (CMVLBC-2) in NEPZ, 85780 (HM-4) to 88889 (BAUBCH-18-1) in PZ and 25868 (AH-5021) to 81076 (AH-7188) in CWZ.

b) Biomass Traits

Fodder weight (Kg/ha): The fodder yield in NWPZ was vary from 25113 Kg/ha (AH-5021) to 45886 Kg/ha (AHB-7985), in NEPZ it was from 23788 Kg/ha (ABHS4-1) to 34053 Kg/ha (IMHSB-19KB-2). Similarly in PZ it was from 25970 Kg/ha (LMH-3517) to 31728 Kg/ha (BAUBCH-18-1) and in CWZ it ranged from 5726 Kg/ha (AH-7043) to 22361 Kg/ha (IMHSB-19KB-2).

c) Quality Traits

Baby corn diameter (cm): The baby corn diameter across zones was between 1.2 cm to 3.3 cm. The data recorded as baby corn diameter in Godra, Dholi, Hyderabad and Rahuri seems to be baby corn circumference rather than diameter as the values were very high which varied from 3.4-5.8 cm, whereas in Ranchi there seems to be slightly delayed data recording / delayed baby corn harvest as the baby corn diameter ranged from 2.3-4.5 cm. The above centres are suggested to record baby corn diameter only at right time to bring uniformity in the data recoding.

Baby corn length (cm): The baby corn length in different zones namely NWPZ, NEPZ, PZ and CWZ ranged from 8.7-9.5 cm, 8.7-10.7 cm, 7.9-9.7 cm, 7.6-9.1 cm respectively.

d) Conclusions

Since re-testing is suggested for all the zones except NWPZ, only one entry AH-7204 (evaluated under AVT-I), has shown 6% per cent superiority over the best check HM-4 for baby corn yield in NWPZ.

Sweet Corn Trials

There are two trials namely SC-NHZ (Trial No.597), SC-I,II,III (Trial No.683) conducted during Kharif-2019. The details of each of the trials are given below.

Trial No. 597 – Sweet Corn – Northern Hill Zone (SC-NHZ)

In the trial five test entries were evaluated against two checks namely Central Maize VL Sweet Corn-1 (CMVLSC-1) and Misthi (NSCH-12) at four locations namely Srinagar, Bajaura, Almora and Imphal. Out of five test entries one entry was in AVT-III (Nuzi-205)

and the remaining four entries (DSCH-325, FSCH-128, LSC-119, Punjab Sweetcorn-219) were in NIVT. The data on eight traits namely ear yield with husk, ear yield without husk, days to 50% silking, days to 50% anthesis, plant height, ear height, total soluble solids (TSS) and final plant stand were recorded. The per cent superiority over the check entries for green ear yield and sweet corn ear yield was also calculated for each test entries. The details of the zonal average values of different traits and/or entries are briefly given below.

a) Morphological Traits

Ear without husk yield (Kg/ha): The average sweet corn ear without husk yield varied from 11985 Kg/ha (Punjab Sweet Corn-219) to 15018 Kg/ha (FSCH-128). The highest yielding check entry was Misthi (14594 Kg/ha). In addition to FSCH-128, Nuzi-205 (14724 Kg/ha) also showed numerical superiority over Misthi.

Sweet corn with husk yield (Kg/ha): The average sweet corn with husk yield varied from 14761 Kg/ha (Punjab Sweet Corn-219) to 19710 Kg/ha (Nuzi-205). The sweet corn with husk yield of check entries namely CMVLSC-1 and Misthi were 15816 Kg/ha and 18251 Kg/ha.

Days to 50% anthesis (Days): The average number of days to 50% silking varied from 58 (FSCH-128) to 62 (Misthi) across entries.

Days to 50% silking (Days): The average days to 50% silking varied from 61 (CMVLSC-1) 64 (Misthi) days; the test entries range was 2 days (61-63)

Ear height (cm): The ear height trait of entries varies from 90 cm (CMVLSC-1) to 116 cm (Misthi); the test entries varied from 99-110 cm.

***Plant height (cm)*:** The plant height trait was varied from 200 cm (CMVLSC-1) to 223 cm (Misthi), the test entries vary from 204-216 cm.

***Final plant stand (no./ha)*:** The final plant stand at harvest was varied 57972 (DSCH-325) to 62251 (CMVLSC-1).

b) Quality Traits

TSS (Brix %): The average TSS varied from 15 to 17 (LSC-119).

c) Conclusions

The best check for sweet corn yield without husk in NHZ was Misthi followed by CMVLSC-1 with 14594 Kg/ha and 13303 Kg/ha respectively. Among the test entries FSCH-128 and Nuzi-205 have shown superiority over the best check by 3.22 and 7.99 per cent respectively.

Trial No. 683 – Sweet Corn – (SC-I-II-III)

The trial comprised on 11 test entries which includes seven entries (BSCH-417006, BSCH-417139, CP Sweet-2, CPSC-301, ISCH-0913, ISCH-1901, and Sweet Purple) under NIVT, two entries each under AVT-I (Super Sweet and Top Sweet) and AVT-II (NUZI-205 and NUZI-260). The test entries were evaluated against two check entries namely CMVLSC-1 and Misthi in NHZ, NWPZ, NEPZ and CWZ, whereas Misthi was used check entry for PZ. the trial was conducted at 22 centres namely located in NWPZ (New Delhi, Karnal, Ludhiana and Pantnagar), NEPZ (Varanasi, Bahraich, Dholi, Kalyani, Ranchi, Sabaour), PZ

(Coimbatore, Dharwad, Hyderabad, Karimnagar, Kolhapur, Mandya, Pedapuram, Rahuri) and CWZ (Ambikapur, Chhindwada, Godra and Udaipur). The number of traits on which the data recorded was same as mentioned under Trial No. 597, in addition moisture percentage was also recorded in this trial at four centres namely Chhindwada, Kalyani, Ranchi and Karimanagar.

a) Morphological Traits

Ear without husk yield (Kg/ha): The average sweet corn ear without husk yield in NWPZ, NEPZ, PZ and CWZ varied from 8406 Kg/ha (ISCH-0913) to 12073 Kg/ha (NUZI-205), 7089 Kg/ha (ISCH-0913) to 16250 Kg/ha (NUZI-260), 8877 Kg/ha (ISCH-0913) to 15351 Kg/ha (NUZI-260) and 4805 Kg/ha (ISCH-0913) to 10039 Kg/ha (NUZI-260) respectively. Misthi was the highest yielding check in NWPZ and (9776 Kg/ha) and PZ (13542 Kg/ha), whereas CMVLSC-1 was the highest yielding check in NEPZ (12165 Kg/ha) and CWZ (7591 Kg/ha). Among the seven NIVT entries, CP Sweet-2 (11289 Kg/ha and 14794 Kg/ha) and CPSC-301 (11545 Kg/ha and 14245 Kg/ha) in NWPZ and NEPZ and ISCH-1901 (10756 Kg/ha) in NWPZ have shown superiority over best check entries of the respective zone. The AVT-I entries namely Super Sweet in NWPZ (11453 Kg/ha), NEPZ (15740 Kg/ha) and CWZ (9206 Kg/ha) and Top Sweet in NWPZ (11181 Kg/ha) and NEPZ (15873 Kg/ha) have shown yield superiority over the best check in their respective zone. Two AVT-II entries namely NUZI-205 and NUZI-260 have shown superiority over best check in all the four zones namely NWPZ (12073 Kg/ha and 11463 Kg/ha), NEPZ (14849 Kg/ha and 16250 Kg/ha), PZ (15293 Kg/ha and 15351 Kg/ha) and CWZ (9787 Kg/ha and 10039 Kg/ha) respectively. The CV of the Bahraich, Sabour and Karnal is more than the acceptable range (>20%), thus the data of the centres are not considered for calculation of zonal mean.

Sweet corn with husk yield (Kg/ha): The green ear yield (with husk) of sweet corn in NEPZ, NEPZ, PZ and CWZ ranged from 11392 Kg/ha (ISCH-0913) to 15828 Kg/ha (NUZI-205), 10938 Kg/ha (ISCH-0913) to 19954 Kg/ha (NUZI-260), 12269 Kg/ha (ISCH-0913) to 21254 Kg/ha (NUZI-260) and 6897 Kg/ha (ISCH-0913) to 13876 Kg/ha (NUZI-260) respectively. In addition to above mentioned centres the CV of Kalyani centre is more than 20% thus the centre data is not considered for calculation of zonal mean.

Days to 50% anthesis (Days): The mean range of days to 50% anthesis ranged from 48-52 days in NWPZ, 51-56 days in NEPZ and PZ, 50-54 days in CWZ.

Days to 50% silking (Days): The mean range of days to 50% silking ranged from 50-54 days in NWPZ, 54-58 days in NEPZ 52-57 days in PZ and CWZ.

Ear height (cm): The ear height trait in NWPZ, NEPZ, PZ and CWZ varies from 84-108 cm, 60-95 cm, 60-84 cm and 60-81 cm respectively.

Plant height (cm): The plant height trait was varied in NWPZ, NEPZ, PZ and CWZ varies from 196-231 cm, 160-198 cm, 160-193 cm and 172-201 cm respectively..

Final plant stand ('000/ha): The final plant stand in NWPZ, NEPZ, PZ and CWZ varies from 59-70, 58-71 cm, 61-870 and 41-62 cm respectively.

b) Quality Traits

TSS (Brix %): The average TSS varied from 16 to 17 in NWPZ, 14-16 in NEPZ, 14-15 in PZ and 11-13 CWZ.

Moisture (%): The average moisture % varied from 57 to 90 in CWZ, 70-74 in NEPZ. However, at Karimnagar, the moisture percentage recorded for green ears of sweet corn are unrealistic, probable reason could be the moisture meter might not be working properly.

c) Conclusions

Seven out of 11 test entries have shown superiority over the best check entries either one or >1 zones. The number of entries which have shown superiority over the best check in NWPZ, NEPZ, PZ and CWZ against zone specific best check entries are seven, six, two and three entries respectively.

Popcorn Trials

There was only one trial of popcorn with name PC-NHZ (Trial No.595), which was conducted during Kharif-2019. The detail of the trial is given below.

Trial No. 595 – Popcorn – Northern Hill Zone (PC-NHZ)

The trial comprised of three entries of NIVT namely APCH-3, LPCH-119 and LPCH-219 along with two check entries namely Shalimar Popcorn KDPC-2, and VL Amber Popcorn (VLAPC) were evaluated at seven locations namely Bajaura, Barapani, Gossaigaon, Imphal, Kangra, Srinagar, and Almora. The data was recorded on 12 traits namely days to 50% anthesis, days to 50% silking, plant height, ear height, days to 75% dry husk, number of ears, grain yield, shelling percentage, final plant stand, grain moisture percentage at harvest, popping percentage and popping volume.

a) Morphological Traits

***Grain yield (Kg/ha)*:** The average grain yield of test entries varied from 3422 Kg/ha (VLAPC) to 5004 Kg/ha (LPCH-219). The highest yielding check entry was Shalimar Popcorn/ KDPC-2 (4873 Kg/ha).

***Days to 50% anthesis (Days)*:** The average number of days to 50% silking varied from 57 (Shalimar Popcorn/ KDPC-2) to 60 (LPCH-219) across entries.

Days to 50% silking (Days): The average days to 50% silking varied from 54 (Shalimar Popcorn/ KDPC-2) to 57 (LPCH-219) days.

Plant height (cm): The plant height trait was varied from 182 cm (VLAPC) to 199 cm (LPCH-119.

Ear height (cm): The ear height trait of entries varies from 88 cm (VLAPC) to 101 cm (APCH-3).

Days to 75% dry husk (Days): The zonal average number of days to mature ranged from 94 (Shalimar Popcorn/ KDPC-2) to 97 (LPCH-219) days.

Number of ears (Number): The zonal; average number of ears per plot is 41-48.

Plant stand (no./ha): the initial plant stand was varied 68000 (VLAPC) to 72000 (APCH-3), however it has reduced to 52000 (all entries except APCH-3) to 53000 (APCH-3) at harvest.

Shelling percentage: The shelling percentage varied from 79 (Shalimar Popcorn/ KDPC-2; LPCH-219) to 82 (LPCH-119) per cent.

b) Quality Traits

Popping percentage: the average popping percentage of entries varied from 73 (Shalimar Popcorn/ KDPC-2) to 83 (VLAPC).

Popping volume: the lowest popping volume was observed in Shalimar Popcorn/ KDPC-2 (11) which is substantially low value. The higher value was observed in VLAPC (23) and LPCH-219 (24).

c) Conclusions

The entry LPCH-219 was found superior with respect to popping percentage, popping volume along with higher yield. However, it is suggested to review the decision of consideration of variety/hybrid Shalimar Popcorn/ KDPC-2 as popcorn because the popcorn quality attributes are not in acceptable range.

Table No. : 1 **Trial No. 666 (NIVT, Early Maturity)** **Yield Kg/ha**

S. No.	Entry Name	CWZ										NEPZ							
		AMBI		CHIND		GODH		UDAI		ZONE		BHU		BHUB		DHOL		RANC	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	AH 8178	9234.59	5	9468.72	5	5655.86	5	3414.94	18	9374.06	3	9722.28	2	5055.67	16	7097.15	11	9431.55	1
2	AH 8323	9936.63	1	11968.17	82	4083.04	17	4170.51	11	11037.96	1	7470.53	10	5665.63	4	8328.3	3	6990.37	18
3	AH 8622	9375.65	4	8692.12	9	4675.77	11	3047.12	23	9063.54	7	7155.66	13	5590.16	5	6559.6	16	9188.18	2
4	AH1608	8472.4	8	10458.34	3	5312.67	7	3662.52	16	9327.75	4	9071.32	3	6053.2	1	7720.61	6	7533.37	11
5	AH3254	.	.	1399.57	32	2145.58	31	3051.82	22	.	.	3408.74	32	2943.09	32	3787.07	32	6675.63	22
6	BAU-MH-18-1	7674.58	12	6413.58	26	2239.42	30	1320.25	32	7222.06	16	4717.85	31	5321.43	12	5849.4	23	7161.12	16
7	BYMH-13-5	5774.1	25	6779.48	22	5104.71	9	2097.68	30	6294.46	25	6206.05	23	4789.83	21	5334.48	31	6435.76	26
8	DH 321	5297.84	29	5812.43	27	3223.49	24	2957.12	25	5554.64	27	5124.44	30	3920.95	26	5812.18	24	6536.42	24
9	DH 329	5571.06	27	4679.74	29	3132.02	25	3554.51	17	4819.76	29	5811.2	27	3445.68	30	5425.11	29	6590.17	23
10	DH 330	4853.37	31	3907.58	31	1974.93	32	2712.2	28	4612.54	31	5126.87	29	3360.45	31	5395.49	30	5510.72	30
11	DKC 7204	8470.65	9	10645.1	2	6979.37	1	4789.2	3	9631.7	2	11868.11	1	5452.33	9	7690.22	7	7112.49	17
12	EH 3524	6325.87	17	9100.06	6	3627.55	21	4004.82	13	7849.06	13	6800.28	17	5397.16	10	6853.93	13	6886.74	19
13	EH 3571	6060.82	22	7510.46	17	2467.62	27	4079.68	12	6536.41	21	8900.98	4	5161.51	14	6470.48	18	6770.15	20
14	FH 3912	6659.32	16	9686.15	4	4312	13	4203.82	10	8268.2	11	7079.53	14	4872.67	20	5905.47	22	8143.29	6
15	HKH 370	5100.06	30	5582.22	28	3237.18	23	3165.04	21	5102.94	28	6470.6	22	4981.3	18	5756.91	26	8207.98	5
16	IMHSB-19K-1	8677.02	7	8856.19	8	5009.93	10	4671.82	5	8528.41	9	7578.09	9	5700.83	3	7795.65	5	7682.92	9
17	JH 32006	5589.97	26	6565.3	25	4173.75	15	2984.66	24	5910.21	26	6009.81	24	5737.1	2	7186.9	10	6749.45	21
18	JH 32328	8965.65	6	7741.81	14	6511.93	2	4957.72	1	8474.18	10	8498.24	6	5521.7	6	9080.68	1	7530.35	12
19	JH 32375	7429.71	14	8616.65	10	4093.72	16	4322.42	8	8163.07	12	7924.52	8	5337.52	11	7502.03	9	7321	14
20	JH 32385	9805.79	2	8487.35	11	4305.56	14	3334.9	19	9078.18	6	7461.15	11	4997.92	17	6891.98	12	9092.31	3
21	JH 32391	8238.55	11	7027.81	20	5699.45	4	4746.41	4	7441.22	14	8520.68	5	4658.58	23	8546.72	2	5068.59	32
22	KH 102E	6772.7	15	7042.46	19	3682.35	20	3675.45	14	7085.57	17	6756.87	19	5094.53	15	6600.23	15	6217.77	27
23	KMH 18-13	5511.14	28	4253.26	30	5279.1	8	2948.92	26	4809.91	30	5274.83	28	3566.24	29	6603.64	14	7912.85	7
24	KMH 18-15	6325.3	18	6585.2	23	4081.27	18	4319.26	9	6496.85	22	6673.53	20	3810.32	28	6412.31	19	6506.55	25
25	KNMH 4193	6223.91	20	7728.17	15	5457.91	6	4629.57	6	7050.11	18	5834.94	26	5297.86	13	6499.59	17	7657.08	10
26	LMH 1946	8273.11	10	8989.68	7	5713.52	3	3672.79	15	8829.51	8	8302.52	7	4650.07	24	7567.68	8	8538.93	4
27	Rasi 50252	7477.41	13	7154.65	18	3906.92	19	4923.48	2	7302.42	15	7010.03	15	5486.57	8	5991.61	21	7728.74	8
28	VEH18-1	6200.96	21	6569.75	24	4400.2	12	2730.12	27	6459.18	23	6823.05	16	3899.62	27	5546.93	28	5159.82	31
29	Bio 605 (C)	6025.24	24	6828.36	21	2397.06	28	1903.78	31	6454.83	24	5912.06	25	4877.89	19	7898.48	4	5648.95	29
30	DKC7074 (C)	9387.54	3	8455.95	12	3405.37	22	4517.92	7	9097.65	5	7445.29	12	5516.57	7	6178.49	20	7377.32	13
31	Vivek Hybrid 45 (C)	6060.01	23	8007.44	13	2264.55	29	3299.76	20	6797.61	20	6532.86	21	4109.54	25	5582.67	27	5968.54	28
32	Vivek Hybrid 51 (C)	6271.52	19	7720.03	16	2903.51	26	2590.55	29	7027.95	19	6799.85	18	4746.16	22	5761.07	25	7264.94	15
	L Mean	7169.66	.	7460.43	.	4108.04	.	3576.9	.	7317.35	.	7009.15	.	4844.38	.	6613.53	.	7143.75	.
	CV (%)	14.79	.	13.17	.	33.5	.	22.78	.	13.83	.	15.65	.	14.99	.	14.97	.	12.84	.
	F (Prob)	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0.02	.
	CD (5%)	1738.17	.	1609.6	.	2253.92	.	1334.3	.	1158.79	.	1796.42	.	1189.4	.	1621.75	.	1542.69	.
	CD (1%)	2316.64	.	2144.12	.	3002.41	.	1777.4	.	1533.29	.	2392.99	.	1584.38	.	2160.31	.	2087.92	.

Table No. : 1 **(Conti...)** **Yield Kg/ha**

S. No.	Entry Name	NEPZ				NWPZ										All India	
		SABO		ZONE		IARI		KARN		LUDH		PANT		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	AH 8178	4033.78	14	7656.78	3	8381.11	13	5522.28	24	8236.2	6	10620.91	3	8081.03	5	8177.34	3
2	AH 8323	5331.22	4	7175.32	7	9519.75	8	7098.59	4	7954.13	10	8774.34	15	7936.34	6	8284.32	2
3	AH 8622	4938.53	10	7297.75	6	8279.63	15	7221.04	3	8995.4	2	8991.07	10	8504.05	4	8097.25	4
4	AH1608	4971.57	8	7528.54	4	11220.82	2	6339.85	10	7649.58	11	9486.93	5	7775.35	7	8011.15	6
5	AH3254	1022.08	32	4065.68	32	2481.42	32	3145.84	32	1244.16	32	4092.47	32	2721.75	32	.	.
6	BAU-MH-18-1	2464.61	29	5708.07	26	4357.46	30	5362.31	26	5169.6	29	6927.15	30	5824.25	29	6078.67	27
7	BYMH-13-5	3615.69	17	5850.93	23	5917.6	27	6012.51	16	6030.2	24	6929	29	6365.37	27	6123.73	25
8	DH 321	3497.51	20	5164.17	30	6257.91	26	5337.63	27	5502.24	27	6323.52	31	5630.4	30	5400.42	30
9	DH 329	4064.13	13	5330.4	29	5057.8	29	5924.98	17	6089.07	23	7376.1	27	6501.32	24	5619.91	29
10	DH 330	3068.09	28	4945.03	31	8079.7	16	4727.02	31	4519.51	31	7449.52	25	5626.39	31	5093.28	31
11	DKC 7204	5234.73	6	8363.72	1	11165.72	3	6657.77	5	8891.5	3	11165.52	1	8962.94	1	8845.92	1
12	EH 3524	3687.14	16	6342.78	18	10017.85	7	5699.11	20	7588.91	12	8801	14	7239.31	16	6964.58	14
13	EH 3571	4515.75	11	6754.07	11	8837.56	12	6448.71	6	6399.45	20	8624.58	16	7145.79	18	6844.42	16
14	FH 3912	3280.16	25	6554.29	13	9465.87	9	6155.38	13	8189.82	7	8121.47	18	7582.9	11	7278.9	12
15	HKH 370	2169.38	31	6213.59	20	4354.34	31	6351.52	7	6851.71	17	8955.89	11	7429.54	12	6381.45	22
16	IMHSB-19K-1	4952.14	9	7048.77	8	5532.04	28	5540.24	23	6827.04	18	9371.5	6	7289.43	15	7467.15	11
17	JH 32006	4420.47	12	6443.09	15	7174.19	19	5911.95	18	7516.27	13	8095.37	19	7192.27	17	6582.04	18
18	JH 32328	6416.31	1	7748.76	2	8928.66	11	5568.12	22	8048.39	9	9086.81	9	7667.13	9	7885.41	7
19	JH 32375	5621.9	3	6976.3	10	11741.47	1	6344.12	9	9026.94	1	10921.69	2	8748.45	2	7824.85	8
20	JH 32385	5268.72	5	7024.29	9	7462.81	18	5664.81	21	8088.21	8	9167.84	8	7597.04	10	7671.49	9
21	JH 32391	5072	7	6739.14	12	8370.57	14	6345.36	8	6983.51	15	8810.03	13	7339.32	13	7098.6	13
22	KH 102E	3121.89	27	6112.97	22	6429.85	24	5134.45	30	6980.74	16	7921.15	22	6683.35	21	6514.66	19
23	KMH 18-13	3353.29	21	5714.28	25	7070.1	21	6226	12	4759.89	30	6992.34	28	6108.54	28	5655.3	28
24	KMH 18-15	3605.84	18	5802.42	24	6692.87	23	5270.44	28	6120.89	22	8836.93	12	6648.43	22	6230.16	23
25	KNMH 4193	2333.13	30	6397.7	17	10158.16	6	7839.05	1	6655.42	19	7455.79	24	7308.49	14	6844.51	15
26	LMH 1946	5986.62	2	7415.89	5	10515.86	4	7356.78	2	8376.76	5	9966.07	4	8527.33	3	8090.87	5
27	Rasi 50252	3745.29	15	6416.29	16	8967.39	10	6047.15	15	7078.66	14	8005.52	20	6938.04	19	6781.65	17
28	VEH18-1	3340.7	23	5690.3	27	8068.1	17	6336.33	11	5259.88	28	7428.49	26	6399.58	26	6098.27	26
29	Bio 605 (C)	3334.43	24	6291.37	19	6399.76	25	6067.35	14	5685.66	26	7806.92	23	6608.76	23	6437.67	20
30	DKC7074 (C)	3341.64	22	6552.52	14	10158.43	5	5431.05	25	8415.69	4	9291.73	7	7757.34	8	7516.8	10
31	Vivek Hybrid 45 (C)	3181	26	5430.31	28	7034	22	5884.71	19	6385.82	21	7948.96	21	6743.05	20	6179.43	24
32	Vivek Hybrid 51 (C)	3596.32	19	6130.97	21	7082.39	20	5182.09	29	5918.64	25	8570.37	17	6420.51	25	6417.84	21
	L Mean	3955.81	.	6335.34	.	7849.41	.	5942.33	.	6795	.	8384.91	.	7040.74	.	6804.28	.
	CV (%)	24.96	.	14.95	.	32.07	.	15.43	.	12.64	.	11.2	.	12.84	.	13.95	.
	F (Prob)	0	.	0	.	0.01	.	0.01	.	0	.	0	.	0	.	0	.
	CD (5%)	1617.25	.	821.41	.	4122.79	.	1501.15	.	1407.11	.	1538.27	.	863.86	.	529.33	.
	CD (1%)	2154.31	.	1083.65	.	5491.91	.	1999.65	.	1874.39	.	2049.11	.	1140.35	.	696.75	.

Table No. : 1 **(Conti...)** **Gain in yield (%) over BIO 605**

S. No.	Entry Name	CWZ										NEPZ											
		AMBI		CHIND		GODH		UDAI		ZONE		BHU		BHUB		DHOL		RANC		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH 8178	53.27	5	38.67	5	135.95	5	79.38	18	45.23	3	64.45	2	3.64	16	-10.15	11	66.96	1	20.97	14	21.7	3
2	AH 8323	64.92	1	75.27	1	70.34	17	119.06	11	71	1	26.36	10	16.15	4	5.44	3	23.75	18	59.88	4	14.05	7
3	AH 8622	55.61	4	27.29	9	95.06	11	60.06	23	40.41	7	21.04	13	14.6	5	-16.95	16	62.65	2	48.11	10	16	6
4	AH1608	40.62	8	53.16	3	121.63	7	92.38	16	44.51	4	53.44	3	24.09	1	-2.25	6	33.36	11	49.1	8	19.66	4
5	AH3254	.	.	-79.5	32	-10.49	31	60.3	22	.	.	-42.34	32	-39.66	32	-52.05	32	18.17	22	-69.35	32	-35.38	32
6	BAU-MH-18-1	27.37	12	-6.07	26	-6.58	30	-30.65	32	11.89	16	-20.2	31	9.09	12	-25.94	23	26.77	16	-26.09	29	-9.27	26
7	BYMH-13-5	-4.17	25	-0.72	22	112.96	9	10.18	30	-2.48	25	4.97	23	-1.81	21	-32.46	31	13.93	26	8.43	17	-7	23
8	DH 321	-12.07	29	-14.88	27	34.48	24	55.33	25	-13.95	27	-13.32	30	-19.62	26	-26.41	24	15.71	24	4.89	20	-17.92	30
9	DH 329	-7.54	27	-31.47	29	30.66	25	86.71	17	-25.33	29	-1.71	27	-29.36	30	-31.31	29	16.66	23	21.88	13	-15.27	29
10	DH 330	-19.45	31	-42.77	31	-17.61	32	42.46	28	-28.54	31	-13.28	29	-31.11	31	-31.69	30	-2.45	30	-7.99	28	-21.4	31
11	DKC 7204	40.59	9	55.9	2	191.16	1	151.56	3	49.22	2	100.74	1	11.78	9	-2.64	7	25.91	17	56.99	6	32.94	1
12	EH 3524	4.99	17	33.27	6	51.33	21	110.36	13	21.6	13	15.02	17	10.65	10	-13.22	13	21.91	19	10.58	16	0.82	18
13	EH 3571	0.59	22	9.99	17	2.94	27	114.29	12	1.26	21	50.56	4	5.81	14	-18.08	18	19.85	20	35.43	11	7.35	11
14	FH 3912	10.52	16	41.85	4	79.89	13	120.81	10	28.09	11	19.75	14	-0.11	20	-25.23	22	44.16	6	-1.63	25	4.18	13
15	HKH 370	-15.36	30	-18.25	28	35.05	23	66.25	21	-20.94	28	9.45	22	2.12	18	-27.11	26	45.3	5	-34.94	31	-1.24	20
16	IMHSB-19K-1	44.01	7	29.7	8	109	10	145.4	5	32.12	9	28.18	9	16.87	3	-1.3	5	36.01	9	48.52	9	12.04	8
17	JH 32006	-7.22	26	-3.85	25	74.12	15	56.78	24	-8.44	26	1.65	24	17.61	2	-9.01	10	19.48	21	32.57	12	2.41	15
18	JH 32328	48.8	6	13.38	14	171.66	2	160.41	1	31.28	10	43.74	6	13.2	6	14.97	1	33.31	12	92.43	1	23.17	2
19	JH 32375	23.31	14	26.19	10	70.78	16	127.04	8	26.46	12	34.04	8	9.42	11	-5.02	9	29.6	14	68.6	3	10.89	10
20	JH 32385	62.75	2	24.3	11	79.62	14	75.17	19	40.64	6	26.2	11	2.46	17	-12.74	12	60.96	3	58.01	5	11.65	9
21	JH 32391	36.73	11	2.92	20	137.77	4	149.32	4	15.28	14	44.12	5	-4.5	23	8.21	2	-10.27	32	52.11	7	7.12	12
22	KH 102E	12.41	15	3.14	19	53.62	20	93.06	14	9.77	17	14.29	19	4.44	15	-16.44	15	10.07	27	-6.37	27	-2.84	22
23	KMH 18-13	-8.53	28	-37.71	30	120.23	8	54.9	26	-25.48	30	-10.78	28	-26.89	29	-16.39	14	40.08	7	0.57	21	-9.17	25
24	KMH 18-15	4.98	18	-3.56	23	70.26	18	126.88	9	0.65	22	12.88	20	-21.89	28	-18.82	19	15.18	25	8.14	18	-7.77	24
25	KNMH 4193	3.3	20	13.18	15	127.69	6	143.18	6	9.22	18	-1.3	26	8.61	13	-17.71	17	35.55	10	-30.03	30	1.69	17
26	LMH 1946	37.31	10	31.65	7	138.35	3	92.92	15	36.79	8	40.43	7	-4.67	24	-4.19	8	51.16	4	79.54	2	17.87	5
27	Rasi 50252	24.1	13	4.78	18	62.99	19	158.62	2	13.13	15	18.57	15	12.48	8	-24.14	21	36.82	8	12.32	15	1.99	16
28	VEH18-1	2.92	21	-3.79	24	83.57	12	43.41	27	0.07	23	15.41	16	-20.06	27	-29.77	28	-8.66	31	0.19	23	-9.55	27
29	Bio 605 (C)	0	24	0	21	0	28	0	31	0	24	0	25	0	19	0	4	0	29	0	24	0	19
30	DKC7074 (C)	55.8	3	23.84	12	42.06	22	137.31	7	40.94	5	25.93	12	13.09	7	-21.78	20	30.6	13	0.22	22	4.15	14
31	Vivek Hybrid 45 (C)	0.58	23	17.27	13	-5.53	29	73.33	20	5.31	20	10.5	21	-15.75	25	-29.32	27	5.66	28	-4.6	26	-13.69	28
32	Vivek Hybrid 51 (C)	4.09	19	13.06	16	21.13	26	36.07	29	8.88	19	15.02	18	-2.7	22	-27.06	25	28.61	15	7.85	19	-2.55	21

Table No. : 1 (Conti...)		Gain in yield (%) over BIO 605												Gain in yield (%) over DKC 7074									
S. No.	Entry Name	NWPZ										All India		CWZ									
		IARI		KARN		LUDH		PANT		ZONE				AMBI		CHIND		GODH		UDAI		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH 8178	30.96	13	-8.98	24	44.86	6	36.04	3	22.28	5	27.02	3	-1.63	5	11.98	5	66.09	5	-24.41	18	3.04	3
2	AH 8323	48.75	8	17	4	39.9	10	12.39	15	20.09	6	28.69	2	5.85	1	41.54	1	19.9	17	-7.69	11	21.33	1
3	AH 8622	29.37	15	19.01	3	58.21	2	15.17	10	28.68	4	25.78	4	-0.13	4	2.79	9	37.31	11	-32.55	23	-0.37	7
4	AH1608	75.33	2	4.49	10	34.54	11	21.52	5	17.65	7	24.44	6	-9.75	8	23.68	3	56.01	7	-18.93	16	2.53	4
5	AH3254	-61.23	32	-48.15	32	-78.12	32	-47.58	32	-58.82	32	.	.	.	.	-83.45	32	-36.99	31	-32.45	22	.	.
6	BAU-MH-18-1	-31.91	30	-11.62	26	-9.08	29	-11.27	30	-11.87	29	-5.58	27	-18.25	12	-24.15	26	-34.24	30	-70.78	32	-20.62	16
7	BYMH-13-5	-7.53	27	-0.9	16	6.06	24	-11.25	29	-3.68	27	-4.88	25	-38.49	25	-19.83	22	49.9	9	-53.57	30	-30.81	25
8	DH 321	-2.22	26	-12.03	27	-3.23	27	-19	31	-14.8	30	-16.11	30	-43.57	29	-31.26	27	-5.34	24	-34.55	25	-38.94	27
9	DH 329	-20.97	29	-2.35	17	7.1	23	-5.52	27	-1.63	24	-12.7	29	-40.65	27	-44.66	29	-8.03	25	-21.32	17	-47.02	29
10	DH 330	26.25	16	-22.09	31	-20.51	31	-4.58	25	-14.86	31	-20.88	31	-48.3	31	-53.79	31	-42.01	32	-39.97	28	-49.3	31
11	DKC 7204	74.47	3	9.73	5	56.38	3	43.02	1	35.62	1	37.41	1	-9.77	9	25.89	2	104.95	1	6	3	5.87	2
12	EH 3524	56.53	7	-6.07	20	33.47	12	12.73	14	9.54	16	8.18	14	-32.61	17	7.62	6	6.52	21	-11.36	13	-13.72	13
13	EH 3571	38.09	12	6.29	6	12.55	20	10.47	16	8.13	18	6.32	16	-35.44	22	-11.18	17	-27.54	27	-9.7	12	-28.15	21
14	FH 3912	47.91	9	1.45	13	44.04	7	4.03	18	14.74	11	13.07	12	-29.06	16	14.55	4	26.62	13	-6.95	10	-9.12	11
15	HKH 370	-31.96	31	4.68	7	20.51	17	14.72	11	12.42	12	-0.87	22	-45.67	30	-33.98	28	-4.94	23	-29.94	21	-43.91	28
16	IMHSB-19K-1	-13.56	28	-8.69	23	20.07	18	20.04	6	10.3	15	15.99	11	-7.57	7	4.73	8	47.12	10	3.41	5	-6.26	9
17	JH 32006	12.1	19	-2.56	18	32.2	13	3.69	19	8.83	17	2.24	18	-40.45	26	-22.36	25	22.56	15	-33.94	24	-35.04	26
18	JH 32328	39.52	11	-8.23	22	41.56	9	16.39	9	16.01	9	22.49	7	-4.49	6	-8.45	14	91.23	2	9.73	1	-6.85	10
19	JH 32375	83.47	1	4.56	9	58.77	1	39.9	2	32.38	2	21.55	8	-20.86	14	1.9	10	20.21	16	-4.33	8	-10.27	12
20	JH 32385	16.61	18	-6.63	21	42.26	8	17.43	8	14.95	10	19.17	9	4.46	2	0.37	11	26.43	14	-26.19	19	-0.21	6
21	JH 32391	30.8	14	4.58	8	22.83	15	12.85	13	11.05	13	10.27	13	-12.24	11	-16.89	20	67.37	4	5.06	4	-18.21	14
22	KH 102E	0.47	24	-15.38	30	22.78	16	1.46	22	1.13	21	1.2	19	-27.85	15	-16.72	19	8.13	20	-18.65	14	-22.12	17
23	KMH 18-13	10.47	21	2.61	12	-16.28	30	-10.43	28	-7.57	28	-12.15	28	-41.29	28	-49.7	30	55.02	8	-34.73	26	-47.13	30
24	KMH 18-15	4.58	23	-13.13	28	7.65	22	13.19	12	0.6	22	-3.22	23	-32.62	18	-22.12	23	19.85	18	-4.4	9	-28.59	22
25	KNMH 4193	58.73	6	29.2	1	17.06	19	-4.5	24	10.59	14	6.32	15	-33.7	20	-8.61	15	60.27	6	2.47	6	-22.51	18
26	LMH 1946	64.32	4	21.25	2	47.33	5	27.66	4	29.03	3	25.68	5	-11.87	10	6.31	7	67.78	3	-18.71	15	-2.95	8
27	Rasi 50252	40.12	10	-0.33	15	24.5	14	2.54	20	4.98	19	5.34	17	-20.35	13	-15.39	18	14.73	19	8.98	2	-19.73	15
28	VEH18-1	26.07	17	4.43	11	-7.49	28	-4.85	26	-3.17	26	-5.27	26	-33.94	21	-22.31	24	29.21	12	-39.57	27	-29	23
29	Bio 605 (C)	0	25	0	14	0	26	0	23	0	23	0	20	-35.82	24	-19.25	21	-29.61	28	-57.86	31	-29.05	24
30	DKC7074 (C)	58.73	5	-10.49	25	48.02	4	19.02	7	17.38	8	16.76	10	0	3	0	12	0	22	0	7	0	5
31	Vivek Hybrid 45 (C)	9.91	22	-3.01	19	12.31	21	1.82	21	2.03	20	-4.01	24	-35.45	23	-5.3	13	-33.5	29	-26.96	20	-25.28	20
32	Vivek Hybrid 51 (C)	10.67	20	-14.59	29	4.1	25	9.78	17	-2.85	25	-0.31	21	-33.19	19	-8.7	16	-14.74	26	-42.66	29	-22.75	19

Table No. : 1 **(Conti...)** **Gain in yield (%) over DKC 7074**

S. No.	Entry Name	NEPZ												NWPZ										All India	
		BHU		BHUB		DHOL		RANC		SABO		ZONE		IARI		KARN		LUDH		PANT		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH 8178	30.58	2	-8.35	16	14.87	11	27.85	1	20.71	14	16.85	3	-17.5	13	1.68	24	-2.13	6	14.3	3	4.17	5	8.79	3
2	AH 8323	0.34	10	2.7	4	34.79	3	-5.25	18	59.54	4	9.5	7	-6.29	8	30.7	4	-5.48	10	-5.57	15	2.31	6	10.21	2
3	AH 8622	-3.89	13	1.33	5	6.17	16	24.55	2	47.79	10	11.37	6	-18.49	15	32.96	3	6.89	2	-3.24	10	9.63	4	7.72	4
4	AH1608	21.84	3	9.73	1	24.96	6	2.12	11	48.78	8	14.9	4	10.46	2	16.73	10	-9.1	11	2.1	5	0.23	7	6.58	6
5	AH3254	-54.22	32	-46.65	32	-38.71	32	-9.51	22	-69.41	32	-37.95	32	-75.57	32	-42.08	32	-85.22	32	-55.96	32	-64.91	32	.	.
6	BAU-MH-18-1	-36.63	31	-3.54	12	-5.33	23	-2.93	16	-26.25	29	-12.89	26	-57.11	30	-1.27	26	-38.57	29	-25.45	30	-24.92	29	-19.13	27
7	BYMH-13-5	-16.64	23	-13.17	21	-13.66	31	-12.76	26	8.2	17	-10.71	23	-41.75	27	10.71	16	-28.35	24	-25.43	29	-17.94	27	-18.53	25
8	DH 321	-31.17	30	-28.92	26	-5.93	24	-11.4	24	4.66	20	-21.19	30	-38.4	26	-1.72	27	-34.62	27	-31.94	31	-27.42	30	-28.16	30
9	DH 329	-21.95	27	-37.54	30	-12.19	29	-10.67	23	21.62	13	-18.65	29	-50.21	29	9.09	17	-27.65	23	-20.62	27	-16.19	24	-25.24	29
10	DH 330	-31.14	29	-39.08	31	-12.67	30	-25.3	30	-8.19	28	-24.53	31	-20.46	16	-12.96	31	-46.3	31	-19.83	25	-27.47	31	-32.24	31
11	DKC 7204	59.4	1	-1.16	9	24.47	7	-3.59	17	56.65	6	27.64	1	9.92	3	22.59	5	5.65	3	20.17	1	15.54	1	17.68	1
12	EH 3524	-8.66	17	-2.16	10	10.93	13	-6.65	19	10.34	16	-3.2	18	-1.38	7	4.94	20	-9.82	12	-5.28	14	-6.68	16	-7.35	14
13	EH 3571	19.55	4	-6.44	14	4.73	18	-8.23	20	35.14	11	3.08	11	-13	12	18.74	6	-23.96	20	-7.18	16	-7.88	18	-8.95	16
14	FH 3912	-4.91	14	-11.67	20	-4.42	22	10.38	6	-1.84	25	0.03	13	-6.82	9	13.34	13	-2.68	7	-12.59	18	-2.25	11	-3.17	12
15	HKH 370	-13.09	22	-9.7	18	-6.82	26	11.26	5	-35.08	31	-5.17	20	-57.14	31	16.95	7	-18.58	17	-3.61	11	-4.23	12	-15.1	22
16	IMHSB-19K-1	1.78	9	3.34	3	26.17	5	4.14	9	48.19	9	7.57	8	-45.54	28	2.01	23	-18.88	18	0.86	6	-6.03	15	-0.66	11
17	JH 32006	-19.28	24	4	2	16.32	10	-8.51	21	32.28	12	-1.67	15	-29.38	19	8.85	18	-10.69	13	-12.88	19	-7.28	17	-12.44	18
18	JH 32328	14.14	6	0.09	6	46.97	1	2.07	12	92.01	1	18.26	2	-12.11	11	2.52	22	-4.36	9	-2.21	9	-1.16	9	4.9	7
19	JH 32375	6.44	8	-3.25	11	21.42	9	-0.76	14	68.24	3	6.47	10	15.58	1	16.81	9	7.26	1	17.54	2	12.78	2	4.1	8
20	JH 32385	0.21	11	-9.4	17	11.55	12	23.25	3	57.67	5	7.2	9	-26.54	18	4.3	21	-3.89	8	-1.33	8	-2.07	10	2.06	9
21	JH 32391	14.44	5	-15.55	23	38.33	2	-31.29	32	51.78	7	2.85	12	-17.6	14	16.83	8	-17.02	15	-5.18	13	-5.39	13	-5.56	13
22	KH 102E	-9.25	19	-7.65	15	6.83	15	-15.72	27	-6.58	27	-6.71	22	-36.7	24	-5.46	30	-17.05	16	-14.75	22	-13.84	21	-13.33	19
23	KMH 18-13	-29.15	28	-35.35	29	6.88	14	7.26	7	0.35	21	-12.79	25	-30.4	21	14.64	12	-43.44	30	-24.75	28	-21.25	28	-24.76	28
24	KMH 18-15	-10.37	20	-30.93	28	3.78	19	-11.8	25	7.91	18	-11.45	24	-34.12	23	-2.96	28	-27.27	22	-4.89	12	-14.29	22	-17.12	23
25	KNMH 4193	-21.63	26	-3.96	13	5.2	17	3.79	10	-30.18	30	-2.36	17	0	6	44.34	1	-20.92	19	-19.76	24	-5.79	14	-8.94	15
26	LMH 1946	11.51	7	-15.71	24	22.48	8	15.75	4	79.15	2	13.18	5	3.52	4	35.46	2	-0.46	5	7.26	4	9.93	3	7.64	5
27	Rasi 50252	-5.85	15	-0.54	8	-3.02	21	4.76	8	12.08	15	-2.08	16	-11.72	10	11.34	15	-15.89	14	-13.84	20	-10.56	19	-9.78	17
28	VEH18-1	-8.36	16	-29.31	27	-10.22	28	-30.06	31	-0.03	23	-13.16	27	-20.58	17	16.67	11	-37.5	28	-20.05	26	-17.5	26	-18.87	26
29	Bio 605 (C)	-20.59	25	-11.58	19	27.84	4	-23.43	29	-0.22	24	-3.99	19	-37	25	11.72	14	-32.44	26	-15.98	23	-14.81	23	-14.36	20
30	DKC7074 (C)	0	12	0	7	0	20	0	13	0	22	0	14	0	5	0	25	0	4	0	7	0	8	0	10
31	Vivek Hybrid 45 (C)	-12.26	21	-25.51	25	-9.64	27	-19.1	28	-4.81	26	-17.13	28	-30.76	22	8.35	19	-24.12	21	-14.45	21	-13.08	20	-17.79	24
32	Vivek Hybrid 51 (C)	-8.67	18	-13.97	22	-6.76	25	-1.52	15	7.62	19	-6.43	21	-30.28	20	-4.58	29	-29.67	25	-7.76	17	-17.23	25	-14.62	21

Table No. : 1 (Conti...) Gain in yield (%) over VIVEK HYB 45

S. No.	Entry Name	CWZ										NEPZ											
		AMBI		CHIND		GODH		UDAI		ZONE		BHU		BHUB		DHOL		RANC		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH 8178	52.39	5	18.25	5	149.76	5	3.49	18	37.9	3	48.82	2	23.02	16	27.13	11	58.02	1	26.81	14	41	3
2	AH 8323	63.97	1	49.46	1	80.3	17	26.39	11	62.38	1	14.35	10	37.87	4	49.18	3	17.12	18	67.6	4	32.13	7
3	AH 8622	54.71	4	8.55	9	106.48	11	-7.66	23	33.33	7	9.53	13	36.03	5	17.5	16	53.94	2	55.25	10	34.39	6
4	AH1608	39.81	8	30.61	3	134.6	7	10.99	16	37.22	4	38.86	3	47.3	1	38.3	6	26.22	11	56.29	8	38.64	4
5	AH3254	.	.	-82.52	32	-5.25	31	-7.51	22	.	.	-47.82	32	-28.38	32	-32.16	32	11.85	22	-67.87	32	-25.13	32
6	BAU-MH-18-1	26.64	12	-19.9	26	-1.11	30	-59.99	32	6.24	16	-27.78	31	29.49	12	4.78	23	19.98	16	-22.52	29	5.11	26
7	BYMH-13-5	-4.72	25	-15.34	22	125.42	9	-36.43	30	-7.4	25	-5	23	16.55	21	-4.45	31	7.83	26	13.66	17	7.75	23
8	DH 321	-12.58	29	-27.41	27	42.35	24	-10.38	25	-18.29	27	-21.56	30	-4.59	26	4.11	24	9.51	24	9.95	20	-4.9	30
9	DH 329	-8.07	27	-41.56	29	38.31	25	7.72	17	-29.1	29	-11.05	27	-16.15	30	-2.82	29	10.42	23	27.76	13	-1.84	29
10	DH 330	-19.91	31	-51.2	31	-12.79	32	-17.81	28	-32.14	31	-21.52	29	-18.23	31	-3.35	30	-7.67	30	-3.55	28	-8.94	31
11	DKC 7204	39.78	9	32.94	2	208.2	1	45.14	3	41.69	2	81.67	1	32.67	9	37.75	7	19.17	17	64.56	6	54.02	1
12	EH 3524	4.39	17	13.65	6	60.19	21	21.37	13	15.47	13	4.09	17	31.33	10	22.77	13	15.38	19	15.91	16	16.8	18
13	EH 3571	0.01	22	-6.21	17	8.97	27	23.64	12	-3.84	21	36.25	4	25.6	14	15.9	18	13.43	20	41.96	11	24.38	11
14	FH 3912	9.89	16	20.96	4	90.41	13	27.4	10	21.63	11	8.37	14	18.57	20	5.78	22	36.44	6	3.12	25	20.7	13
15	HKH 370	-15.84	30	-30.29	28	42.95	23	-4.08	21	-24.93	28	-0.95	22	21.21	18	3.12	26	37.52	5	-31.8	31	14.42	20
16	IMHSB-19K-1	43.18	7	10.6	8	121.23	10	41.58	5	25.46	9	16	9	38.72	3	39.64	5	28.72	9	55.68	9	29.8	8
17	JH 32006	-7.76	26	-18.01	25	84.31	15	-9.55	24	-13.05	26	-8.01	24	39.6	2	28.74	10	13.08	21	38.96	12	18.65	15
18	JH 32328	47.95	6	-3.32	14	187.56	2	50.24	1	24.66	10	30.08	6	34.36	6	62.66	1	26.17	12	101.71	1	42.69	2
19	JH 32375	22.6	14	7.61	10	80.77	16	30.99	8	20.09	12	21.3	8	29.88	11	34.38	9	22.66	14	76.73	3	28.47	10
20	JH 32385	61.81	2	5.99	11	90.13	14	1.06	19	33.55	6	14.21	11	21.62	17	23.45	12	52.34	3	65.63	5	29.35	9
21	JH 32391	35.95	11	-12.23	20	151.68	4	43.84	4	9.47	14	30.43	5	13.36	23	53.09	2	-15.08	32	59.45	7	24.1	12
22	KH 102E	11.76	15	-12.05	19	62.61	20	11.39	14	4.24	17	3.43	19	23.97	15	18.23	15	4.18	27	-1.86	27	12.57	22
23	KMH 18-13	-9.06	28	-46.88	30	133.12	8	-10.63	26	-29.24	30	-19.26	28	-13.22	29	18.29	14	32.58	7	5.42	21	5.23	25
24	KMH 18-15	4.38	18	-17.76	23	80.22	18	30.9	9	-4.42	22	2.15	20	-7.28	28	14.86	19	9.01	25	13.36	18	6.85	24
25	KNMH 4193	2.7	20	-3.49	15	141.02	6	40.3	6	3.71	18	-10.68	26	28.92	13	16.42	17	28.29	10	-26.65	30	17.81	17
26	LMH 1946	36.52	10	12.27	7	152.3	3	11.3	15	29.89	8	27.09	7	13.15	24	35.56	8	43.07	4	88.2	2	36.56	5
27	Rasi 50252	23.39	13	-10.65	18	72.53	19	49.21	2	7.43	15	7.3	15	33.51	8	7.33	21	29.49	8	17.74	15	18.16	16
28	VEH18-1	2.33	21	-17.95	24	94.31	12	-17.26	27	-4.98	23	4.44	16	-5.11	27	-0.64	28	-13.55	31	5.02	23	4.79	27
29	Bio 605 (C)	-0.57	24	-14.72	21	5.85	28	-42.31	31	-5.04	24	-9.5	25	18.7	19	41.48	4	-5.35	29	4.82	24	15.86	19
30	DKC7074 (C)	54.91	3	5.6	12	50.38	22	36.92	7	33.84	5	13.97	12	34.24	7	10.67	20	23.6	13	5.05	22	20.67	14
31	Vivek Hybrid 45 (C)	0	23	0	13	0	29	0	20	0	20	0	21	0	25	0	27	0	28	0	26	0	28
32	Vivek Hybrid 51 (C)	3.49	19	-3.59	16	28.22	26	-21.49	29	3.39	19	4.09	18	15.49	22	3.2	25	21.72	15	13.06	19	12.9	21

Table No. : 1 (Conti...)		Gain in yield (%) over VIVEK HYB 45												Gain in yield (%) over VIVEK HYB 51									
S. No.	Entry Name	NWPZ										All India		CWZ									
		IARI		KARN		LUDH		PANT		ZONE				AMBI		CHIND		GODH		UDAI		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH 8178	19.15	13	-6.16	24	28.98	6	33.61	3	19.84	5	32.33	3	47.25	5	22.65	5	94.79	5	31.82	18	33.38	3
2	AH 8323	35.34	8	20.63	4	24.56	10	10.38	15	17.7	6	34.06	2	58.44	1	55.03	1	40.62	17	60.99	11	57.06	1
3	AH 8622	17.71	15	22.71	3	40.87	2	13.11	10	26.12	4	31.04	4	49.5	4	12.59	9	61.04	11	17.62	23	28.96	7
4	AH1608	59.52	2	7.73	10	19.79	11	19.35	5	15.31	7	29.64	6	35.09	8	35.47	3	82.97	7	41.38	16	32.72	4
5	AH3254	-64.72	32	-46.54	32	-80.52	32	-48.52	32	-59.64	32	.	.	.	.	-81.87	32	-26.1	31	17.81	22	.	.
6	BAU-MH-18-1	-38.05	30	-8.88	26	-19.05	29	-12.85	30	-13.63	29	-1.63	27	22.37	12	-16.92	26	-22.87	30	-49.04	32	2.76	16
7	BYMH-13-5	-15.87	27	2.17	16	-5.57	24	-12.83	29	-5.6	27	-0.9	25	-7.93	25	-12.18	22	75.81	9	-19.03	30	-10.44	25
8	DH 321	-11.03	26	-9.3	27	-13.84	27	-20.45	31	-16.5	30	-12.61	30	-15.53	29	-24.71	27	11.02	24	14.15	25	-20.96	27
9	DH 329	-28.09	29	0.68	17	-4.65	23	-7.21	27	-3.58	24	-9.05	29	-11.17	27	-39.38	29	7.87	25	37.21	17	-31.42	29
10	DH 330	14.87	16	-19.67	31	-29.23	31	-6.28	25	-16.56	31	-17.58	31	-22.61	31	-49.38	31	-31.98	32	4.7	28	-34.37	31
11	DKC 7204	58.74	3	13.14	5	39.24	3	40.47	1	32.92	1	43.15	1	35.07	9	37.89	2	140.38	1	84.87	3	37.05	2
12	EH 3524	42.42	7	-3.15	20	18.84	12	10.72	14	7.36	16	12.71	14	0.87	17	17.88	6	24.94	21	54.59	13	11.68	13
13	EH 3571	25.64	12	9.58	6	0.21	20	8.5	16	5.97	18	10.76	16	-3.36	22	-2.71	17	-15.01	27	57.48	12	-6.99	21
14	FH 3912	34.57	9	4.6	13	28.25	7	2.17	18	12.45	11	17.79	12	6.18	16	25.47	4	48.51	13	62.28	10	17.65	11
15	HKH 370	-38.1	31	7.93	7	7.3	17	12.67	11	10.18	12	3.27	22	-18.68	30	-27.69	28	11.49	23	22.18	21	-27.39	28
16	IMHSB-19K-1	-21.35	28	-5.85	23	6.91	18	17.9	6	8.1	15	20.84	11	38.36	7	14.72	8	72.55	10	80.34	5	21.35	9
17	JH 32006	1.99	19	0.46	18	17.7	13	1.84	19	6.66	17	6.52	18	-10.87	26	-14.96	25	43.75	15	15.21	24	-15.9	26
18	JH 32328	26.94	11	-5.38	22	26.04	9	14.31	9	13.7	9	27.61	7	42.96	6	0.28	14	124.28	2	91.38	1	20.58	10
19	JH 32375	66.92	1	7.81	9	41.36	1	37.4	2	29.74	2	26.63	8	18.47	14	11.61	10	40.99	16	66.85	8	16.15	12
20	JH 32385	6.1	18	-3.74	21	26.66	8	15.33	8	12.66	10	24.15	9	56.35	2	9.94	11	48.29	14	28.73	19	29.17	6
21	JH 32391	19	14	7.83	8	9.36	15	10.83	13	8.84	13	14.87	13	31.36	11	-8.97	20	96.3	4	83.22	4	5.88	14
22	KH 102E	-8.59	24	-12.75	30	9.32	16	-0.35	22	-0.89	21	5.43	19	7.99	15	-8.78	19	26.82	20	41.88	14	0.82	17
23	KMH 18-13	0.51	21	5.8	12	-25.46	30	-12.03	28	-9.41	28	-8.48	28	-12.12	28	-44.91	30	81.82	8	13.83	26	-31.56	30
24	KMH 18-15	-4.85	23	-10.44	28	-4.15	22	11.17	12	-1.4	22	0.82	23	0.86	18	-14.7	23	40.56	18	66.73	9	-7.56	22
25	KNMH 4193	44.42	6	33.21	1	4.22	19	-6.2	24	8.39	14	10.76	15	-0.76	20	0.11	15	87.98	6	78.71	6	0.32	18
26	LMH 1946	49.5	4	25.02	2	31.18	5	25.38	4	26.46	3	30.93	5	31.92	10	16.45	7	96.78	3	41.78	15	25.63	8
27	Rasi 50252	27.49	10	2.76	15	10.85	14	0.71	20	2.89	19	9.75	17	19.23	13	-7.32	18	34.56	19	90.06	2	3.91	15
28	VEH18-1	14.7	17	7.67	11	-17.63	28	-6.55	26	-5.09	26	-1.31	26	-1.12	21	-14.9	24	51.55	12	5.39	27	-8.09	23
29	Bio 605 (C)	-9.02	25	3.1	14	-10.96	26	-1.79	23	-1.99	23	4.18	20	-3.93	24	-11.55	21	-17.44	28	-26.51	31	-8.15	24
30	DKC7074 (C)	44.42	5	-7.71	25	31.79	4	16.89	7	15.04	8	21.64	10	49.69	3	9.53	12	17.28	22	74.4	7	29.45	5
31	Vivek Hybrid 45 (C)	0	22	0	19	0	21	0	21	0	20	0	24	-3.37	23	3.72	13	-22.01	29	27.38	20	-3.28	20
32	Vivek Hybrid 51 (C)	0.69	20	-11.94	29	-7.32	25	7.82	17	-4.78	25	3.86	21	0	19	0	16	0	26	0	29	0	19

Table No. : 1 (Conti...) **Gain in yield (%) over VIVEK HYB 51**

S. No.	Entry Name	NEPZ												NWPZ										All India	
		BHU		BHUB		DHOL		RANC		SABO		ZONE		IARI		KARN		LUDH		PANT		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH 8178	42.98	2	6.52	16	23.19	11	29.82	1	12.16	14	24.89	3	18.34	13	6.56	24	39.16	6	23.93	3	25.86	5	27.42	3
2	AH 8323	9.86	10	19.37	4	44.56	3	-3.78	18	48.24	4	17.03	7	34.41	8	36.98	4	34.39	10	2.38	15	23.61	6	29.08	2
3	AH 8622	5.23	13	17.78	5	13.86	16	26.47	2	37.32	10	19.03	6	16.9	15	39.35	3	51.98	2	4.91	10	32.45	4	26.17	4
4	AH1608	33.4	3	27.54	1	34.01	6	3.69	11	38.24	8	22.8	4	58.43	2	22.34	10	29.25	11	10.69	5	21.1	7	24.83	6
5	AH3254	-49.87	32	-37.99	32	-34.26	32	-8.11	22	-71.58	32	-33.69	32	-64.96	32	-39.29	32	-78.98	32	-52.25	32	-57.61	32	.	.
6	BAU-MH-18-1	-30.62	31	12.12	12	1.53	23	-1.43	16	-31.47	29	-6.9	26	-38.47	30	3.48	26	-12.66	29	-19.17	30	-9.29	29	-5.28	27
7	BYMH-13-5	-8.73	23	0.92	21	-7.4	31	-11.41	26	0.54	17	-4.57	23	-16.45	27	16.02	16	1.88	24	-19.15	29	-0.86	27	-4.58	25
8	DH 321	-24.64	30	-17.39	26	0.89	24	-10.03	24	-2.75	20	-15.77	30	-11.64	26	3	27	-7.04	27	-26.22	31	-12.31	30	-15.85	30
9	DH 329	-14.54	27	-27.4	30	-5.83	29	-9.29	23	13.01	13	-13.06	29	-28.59	29	14.34	17	2.88	23	-13.93	27	1.26	24	-12.43	29
10	DH 330	-24.6	29	-29.2	31	-6.35	30	-24.15	30	-14.69	28	-19.34	31	14.08	16	-8.78	31	-23.64	31	-13.08	25	-12.37	31	-20.64	31
11	DKC 7204	74.53	1	14.88	9	33.49	7	-2.1	17	45.56	6	36.42	1	57.65	3	28.48	5	50.23	3	30.28	1	39.6	1	37.83	1
12	EH 3524	0.01	17	13.72	10	18.97	13	-5.21	19	2.53	16	3.45	18	41.45	7	9.98	20	28.22	12	2.69	14	12.75	16	8.52	14
13	EH 3571	30.9	4	8.75	14	12.31	18	-6.81	20	25.57	11	10.16	11	24.78	12	24.44	6	8.12	20	0.63	16	11.3	18	6.65	16
14	FH 3912	4.11	14	2.67	20	2.51	22	12.09	6	-8.79	25	6.9	13	33.65	9	18.78	13	38.37	7	-5.24	18	18.1	11	13.42	12
15	HKH 370	-4.84	22	4.95	18	-0.07	26	12.98	5	-39.68	31	1.35	20	-38.52	31	22.57	7	15.76	17	4.5	11	15.72	12	-0.57	22
16	IMHSB-19K-1	11.45	9	20.11	3	35.32	5	5.75	9	37.7	9	14.97	8	-21.89	28	6.91	23	15.35	18	9.35	6	13.53	15	16.35	11
17	JH 32006	-11.62	24	20.88	2	24.75	10	-7.1	21	22.92	12	5.09	15	1.3	19	14.08	18	26.99	13	-5.54	19	12.02	17	2.56	18
18	JH 32328	24.98	6	16.34	6	57.62	1	3.65	12	78.41	1	26.39	2	26.07	11	7.45	22	35.98	9	6.03	9	19.42	9	22.87	7
19	JH 32375	16.54	8	12.46	11	30.22	9	0.77	14	56.32	3	13.79	10	65.78	1	22.42	9	52.52	1	27.44	2	36.26	2	21.92	8
20	JH 32385	9.73	11	5.3	17	19.63	12	25.15	3	46.5	5	14.57	9	5.37	18	9.32	21	36.66	8	6.97	8	18.32	10	19.53	9
21	JH 32391	25.31	5	-1.85	23	48.35	2	-30.23	32	41.03	7	9.92	12	18.19	14	22.45	8	17.99	15	2.8	13	14.31	13	10.61	13
22	KH 102E	-0.63	19	7.34	15	14.57	15	-14.41	27	-13.19	27	-0.29	22	-9.21	24	-0.92	30	17.95	16	-7.58	22	4.09	21	1.51	19
23	KMH 18-13	-22.43	28	-24.86	29	14.63	14	8.92	7	-6.76	21	-6.8	25	-0.17	21	20.14	12	-19.58	30	-18.41	28	-4.86	28	-11.88	28
24	KMH 18-15	-1.86	20	-19.72	28	11.3	19	-10.44	25	0.26	18	-5.36	24	-5.5	23	1.71	28	3.42	22	3.11	12	3.55	22	-2.92	23
25	KNMH 4193	-14.19	26	11.62	13	12.82	17	5.4	10	-35.12	30	4.35	17	43.43	6	51.27	1	12.45	19	-13	24	13.83	14	6.65	15
26	LMH 1946	22.1	7	-2.02	24	31.36	8	17.54	4	66.47	2	20.96	5	48.48	4	41.97	2	41.53	5	16.29	4	32.81	3	26.07	5
27	Rasi 50252	3.09	15	15.6	8	4	21	6.38	8	4.14	15	4.65	16	26.62	10	16.69	15	19.6	14	-6.59	20	8.06	19	5.67	17
28	VEH18-1	0.34	16	-17.84	27	-3.72	28	-28.98	31	-7.11	23	-7.19	27	13.92	17	22.27	11	-11.13	28	-13.32	26	-0.33	26	-4.98	26
29	Bio 605 (C)	-13.06	25	2.78	19	37.1	4	-22.24	29	-7.28	24	2.62	19	-9.64	25	17.08	14	-3.94	26	-8.91	23	2.93	23	0.31	20
30	DKC7074 (C)	9.49	12	16.23	7	7.25	20	1.55	13	-7.08	22	6.88	14	43.43	5	4.8	25	42.19	4	8.42	7	20.82	8	17.12	10
31	Vivek Hybrid 45 (C)	-3.93	21	-13.41	25	-3.1	27	-17.84	28	-11.55	26	-11.43	28	-0.68	22	13.56	19	7.89	21	-7.25	21	5.02	20	-3.71	24
32	Vivek Hybrid 51 (C)	0	18	0	22	0	25	0	15	0	19	0	21	0	20	0	29	0	25	0	17	0	25	0	21

Table No. : 1 **(Conti...)** **Number of Cobs**

S. No.	Entry Name	CWZ					NEPZ						NWPZ					All India
		AMBI	CHIND	GODH	UDAI	ZONE	BHU	BHUB	DHOL	RANC	SABOU	ZONE	IARI	KARN	LUDH	PANT	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8178	37	37	30	25	32	34	36	37	34	36	35	22	43	37	41	36	35
2	AH 8323	38	37	27	25	31	36	36	39	37	40	37	24	44	39	39	37	35
3	AH 8622	36	32	17	24	28	35	34	31	37	34	34	29	43	38	39	37	33
4	AH1608	34	37	27	25	31	35	36	35	35	36	36	25	45	37	40	37	35
5	AH3254	.	17	19	32	.	30	34	33	32	34	33	17	44	33	38	33	.
6	BAU-MH-18-1	33	33	25	25	29	34	36	38	38	33	36	24	44	38	39	36	34
7	BYMH-13-5	29	36	32	29	32	32	36	39	34	40	36	22	44	38	39	36	34
8	DH 321	28	35	26	30	30	30	35	38	31	36	34	24	44	37	40	36	33
9	DH 329	26	29	26	35	28	34	36	36	37	36	36	21	44	42	43	38	34
10	DH 330	25	34	24	24	28	30	36	34	32	32	33	33	44	36	37	38	33
11	DKC 7204	35	35	32	32	34	41	36	38	33	36	36	32	44	40	47	41	37
12	EH 3524	28	34	25	28	29	34	37	32	31	37	34	25	42	43	39	37	33
13	EH 3571	29	34	18	25	26	35	37	36	32	35	35	22	46	39	38	36	33
14	FH 3912	27	35	26	31	30	33	37	36	35	33	35	28	43	40	39	37	34
15	HKH 370	26	22	19	21	22	30	34	27	34	30	31	19	45	38	33	34	29
16	IMHSB-19K-1	35	38	30	29	33	34	34	37	33	34	35	23	42	38	42	36	35
17	JH 32006	29	29	23	31	28	32	37	35	35	36	35	25	44	40	43	38	34
18	JH 32328	35	33	30	32	33	37	37	35	39	40	38	25	42	41	44	38	36
19	JH 32375	32	34	29	30	32	36	36	36	35	38	37	30	44	41	42	39	36
20	JH 32385	40	35	21	28	31	39	36	35	35	42	37	30	44	44	48	42	37
21	JH 32391	32	31	30	30	30	42	37	40	33	37	37	26	43	42	46	39	36
22	KH 102E	32	33	27	30	31	36	35	36	33	30	34	23	41	38	40	36	33
23	KMH 18-13	29	29	33	25	29	33	36	37	37	38	36	28	43	38	41	38	34
24	KMH 18-15	30	31	31	30	31	33	36	38	35	37	36	21	45	38	37	36	34
25	KNMH 4193	31	37	31	31	33	30	37	34	33	26	32	31	44	39	36	37	34
26	LMH 1946	34	35	30	31	32	36	39	34	35	40	37	29	45	37	41	38	36
27	Rasi 50252	31	33	28	25	29	34	36	32	33	34	34	25	45	39	39	37	34
28	VEH18-1	29	36	23	30	30	33	36	36	33	30	33	27	43	38	41	37	33
29	Bio 605 (C)	27	26	21	19	23	28	33	35	33	31	32	25	43	37	35	35	30
30	DKC7074 (C)	37	36	24	31	33	35	38	37	37	34	36	28	41	42	41	38	36
31	Vivek Hybrid 45 (C)	27	32	26	24	27	31	36	31	35	33	33	26	46	37	32	35	32
32	Vivek Hybrid 51 (C)	29	35	30	28	31	38	36	35	35	37	36	26	41	40	42	37	35
	L Mean	31.3	32.8	26.3	28.0	29.6	34.1	36.0	35.4	34.3	35.2	35.0	25.5	43.6	38.8	40.1	37.0	34.0
	CV (%)	8.6	13.8	22.6	17.1	15.4	9.6	4.9	10.3	11.0	10.6	9.5	16.8	5.6	4.5	8.3	8.4	11.0
	F (Prob)	0.0	0.0	0.1	0.1	0.0	0.0	0.5	0.1	0.8	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
	CD (5%)	4.4	7.4	9.7	7.8	3.7	5.4	2.9	6.0	6.2	6.1	2.5	7.0	4.0	2.9	5.4	2.5	1.7
	CD (1%)	5.9	9.9	13.0	10.4	4.8	7.1	3.9	8.0	8.3	8.2	3.3	9.3	5.4	3.8	7.3	3.3	2.2

Table No. : 1 **(Conti...)** **Ear height (cm)**

S. No.	Entry Name	CWZ					NEPZ						NWPZ					All India
		AMBI	CHIND	GODH	UDAI	ZONE	BHU	BHUB	DHOL	RANC	SABOU	ZONE	IARI	KARN	LUDH	PANT	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8178	104	87	81	84	89	99	63	95	105	68	85	126	95	112	115	113	95
2	AH 8323	108	106	68	100	96	123	78	110	104	92	102	154	125	117	128	132	109
3	AH 8622	109	92	80	95	93	97	70	95	103	78	89	138	106	107	111	115	98
4	AH1608	118	105	75	99	100	109	77	118	111	89	101	151	122	128	139	134	111
5	AH3254	.	55	88	74	.	66	65	77	85	49	68	89	65	69	79	75	.
6	BAU-MH-18-1	108	90	79	99	95	112	69	95	92	78	89	131	111	114	116	118	100
7	BYMH-13-5	98	81	77	95	88	99	71	89	90	72	85	119	107	113	114	114	95
8	DH 321	94	73	84	85	84	97	64	98	96	60	82	132	107	96	108	110	91
9	DH 329	85	68	72	93	80	99	68	83	92	69	82	126	96	98	108	109	89
10	DH 330	93	74	82	82	83	96	63	79	93	67	80	125	94	105	106	106	89
11	DKC 7204	97	79	75	98	87	124	68	83	94	80	91	139	108	112	112	118	98
12	EH 3524	99	95	83	108	96	109	67	100	100	89	93	129	111	123	130	123	103
13	EH 3571	96	75	85	87	86	92	71	83	101	70	83	117	87	96	106	102	90
14	FH 3912	95	84	71	91	85	96	61	92	93	64	81	135	103	103	112	112	91
15	HKH 370	103	102	79	82	91	106	74	94	104	73	90	128	120	112	110	117	99
16	IMHSB-19K-1	105	84	77	87	88	101	65	97	94	70	85	124	93	109	104	107	93
17	JH 32006	93	81	76	80	82	99	73	97	97	81	90	131	101	111	116	115	96
18	JH 32328	109	81	81	99	92	103	73	94	95	72	87	130	96	106	114	111	96
19	JH 32375	102	81	71	90	87	100	78	103	97	79	91	131	102	121	109	115	97
20	JH 32385	103	79	76	95	87	90	63	79	95	63	78	129	97	103	117	111	91
21	JH 32391	101	72	80	86	85	108	69	99	101	77	91	131	97	111	123	117	97
22	KH 102E	99	83	76	87	87	106	69	97	94	61	86	127	86	93	105	103	91
23	KMH 18-13	90	67	77	93	82	99	69	76	88	64	78	123	102	97	97	105	88
24	KMH 18-15	98	73	73	85	82	106	69	91	95	73	87	135	99	107	121	115	94
25	KNMH 4193	103	85	80	95	91	105	68	126	94	75	94	134	113	107	111	116	100
26	LMH 1946	101	78	76	79	84	104	66	99	89	80	88	139	106	101	110	113	94
27	Rasi 50252	91	69	82	79	81	90	66	83	92	63	78	121	80	92	100	98	85
28	VEH18-1	86	71	70	81	77	99	61	85	81	61	79	117	88	100	96	100	85
29	Bio 605 (C)	102	88	84	95	92	117	70	90	99	78	91	140	104	112	112	118	100
30	DKC7074 (C)	96	85	81	95	89	104	69	98	88	63	84	129	104	99	122	113	95
31	Vivek Hybrid 45 (C)	86	67	79	70	75	83	65	77	89	52	73	122	90	86	85	96	81
32	Vivek Hybrid 51 (C)	92	80	87	86	86	96	64	87	100	76	85	119	87	98	122	106	92
	L Mean	98.8	80.9	78.4	89.2	86.7	101.0	68.3	92.8	95.3	71.4	85.8	128.7	100.0	104.8	111.1	111.2	93.9
	CV (%)	4.9	6.8	8.3	10.0	7.7	7.2	9.9	11.2	6.6	12.4	9.4	6.7	9.5	8.2	7.3	7.8	8.4
	F (Prob)	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	7.9	9.0	10.7	14.6	5.6	11.9	11.1	17.1	10.4	14.5	6.2	14.1	15.6	14.0	13.2	7.4	3.7
	CD (1%)	10.5	12.0	14.3	19.5	7.4	15.9	14.7	22.7	13.8	19.4	8.1	18.8	20.8	18.7	17.6	9.7	4.9

Table No. : 1 (Conti...)		Final plant Stand (000/ha)															
S. No.	Entry Name	CWZ					NEPZ					NWPZ					All India
		AMBI	CHIND	GODH	UDAI	ZONE	BHU	BHUB	DHOL	SABO	ZONE	IARI	KARN	LUDH	PANT	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8178	77	78	65	72	74	73	75	79	75	76	47	66	75	66	64	71
2	AH 8323	82	80	60	71	72	74	76	80	83	77	53	66	76	64	65	71
3	AH 8622	78	71	48	63	66	71	74	64	71	70	63	66	77	66	67	67
4	AH1608	72	76	60	71	69	72	77	72	76	75	52	65	75	66	65	70
5	AH3254	.	71	39	73	.	72	72	70	70	71	38	68	74	61	61	.
6	BAU-MH-18-1	68	78	57	75	68	72	76	80	69	74	51	65	75	63	64	69
7	BYMH-13-5	64	80	68	74	72	70	77	81	81	76	49	67	77	63	64	70
8	DH 321	63	83	60	76	70	71	76	79	75	74	53	66	73	67	65	70
9	DH 329	65	75	62	74	68	77	75	74	73	75	45	65	80	67	64	69
10	DH 330	54	73	44	72	62	75	76	72	67	73	68	66	75	61	68	67
11	DKC 7204	73	75	71	74	74	78	76	76	74	76	66	66	79	71	69	73
12	EH 3524	59	76	57	73	66	73	80	67	77	74	53	64	79	64	66	68
13	EH 3571	62	69	45	67	60	71	78	74	73	75	48	66	78	63	64	66
14	FH 3912	59	76	57	77	68	69	78	76	69	73	60	64	77	66	66	69
15	HKH 370	57	44	47	71	54	65	71	56	63	64	43	67	76	56	60	60
16	IMHSB-19K-1	77	82	66	69	73	73	74	77	72	74	50	66	75	66	64	71
17	JH 32006	64	67	55	76	65	70	80	73	74	74	54	65	76	69	66	69
18	JH 32328	75	69	66	75	72	74	75	72	81	76	54	65	79	68	67	72
19	JH 32375	70	76	61	72	70	74	78	78	78	77	65	67	79	67	69	72
20	JH 32385	86	72	51	71	71	79	76	72	87	78	61	66	78	70	69	72
21	JH 32391	64	73	66	73	67	75	81	83	75	78	57	66	75	68	67	71
22	KH 102E	67	80	59	72	68	77	80	75	63	73	50	57	74	66	62	68
23	KMH 18-13	63	78	73	64	69	74	76	77	80	77	59	68	76	66	67	71
24	KMH 18-15	63	76	66	70	70	71	76	80	76	76	47	67	75	62	63	69
25	KNMH 4193	66	81	67	72	72	69	78	71	54	68	66	67	76	61	67	69
26	LMH 1946	72	73	69	76	72	72	79	69	80	75	63	65	73	68	67	71
27	Rasi 50252	66	67	60	67	66	72	77	66	72	72	56	66	78	65	66	68
28	VEH18-1	62	68	56	68	64	75	75	75	62	72	58	66	75	68	66	67
29	Bio 605 (C)	61	54	48	68	58	72	69	72	63	70	54	65	77	58	63	64
30	DKC7074 (C)	80	76	52	73	71	73	83	74	71	75	60	65	76	66	67	71
31	Vivek Hybrid 45 (C)	60	73	58	71	63	68	79	64	69	70	52	66	75	53	62	65
32	Vivek Hybrid 51 (C)	64	81	65	74	73	79	76	73	75	75	56	59	79	67	65	71
	L Mean	67.6	73.4	58.6	71.7	67.8	72.7	76.5	73.5	72.7	73.9	54.7	65.2	76.3	64.8	65.2	69.0
	CV (%)	8.0	9.5	18.6	8.6	11.2	4.7	5.3	9.8	10.4	8.0	15.5	5.1	3.3	6.5	7.9	9.2
	F (Prob)	0.0	0.0	0.0	0.7	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0
	CD (5%)	8.9	11.4	17.8	10.1	6.1	5.6	6.6	11.8	12.4	5.0	13.9	5.5	4.1	6.9	4.3	3.0
	CD (1%)	11.8	15.2	23.8	13.4	8.1	7.5	8.8	15.8	16.5	6.6	18.5	7.3	5.4	9.2	5.7	4.0

Table No. : 1 **(Conti...)** **Moisture (%)**

S. No.	Entry Name	CWZ					NEPZ						NWPZ					All India
		AMBI	CHIND	GODH	UDAI	ZONE	BHU	BHUB	DHOL	RANC	SABOU	ZONE	IARI	KARN	LUDH	PANT	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8178	17.4	16.7	19.0	20.9	18.5	27.3	18.5	21.5	28.3	21.2	23.3	24.8	19.6	18.1	21.5	21.2	21.2
2	AH 8323	17.8	18.2	20.0	19.8	19.0	28.4	18.7	25.7	28.1	26.9	25.4	26.7	20.2	21.1	24.8	23.1	22.7
3	AH 8622	19.5	16.4	19.7	19.8	18.9	29.6	18.6	22.7	28.5	26.6	25.4	22.1	20.8	19.4	28.0	22.4	22.5
4	AH1608	16.1	17.3	17.7	20.0	17.7	27.7	18.5	22.3	28.8	30.8	25.8	26.3	20.7	21.2	28.9	24.4	22.9
5	AH3254	.	12.5	19.3	18.1	.	22.3	18.1	22.3	28.3	26.4	23.4	22.6	20.3	17.1	22.6	20.9	.
6	BAU-MH-18-1	16.0	14.1	18.5	15.5	16.2	29.7	18.3	21.7	28.8	22.9	24.1	26.0	20.4	16.9	26.6	22.3	21.1
7	BYMH-13-5	15.6	13.1	17.8	19.1	16.4	23.9	18.5	19.5	29.1	24.3	23.2	21.0	19.9	18.2	24.0	20.8	20.4
8	DH 321	15.5	14.9	18.1	19.6	17.0	26.7	18.5	18.4	28.9	27.0	23.6	25.5	20.8	17.9	25.7	22.5	21.2
9	DH 329	16.4	12.8	17.7	19.7	16.5	25.7	18.0	17.6	29.0	22.6	22.7	22.2	20.4	15.7	27.5	21.5	20.4
10	DH 330	13.6	12.9	19.0	19.0	16.2	23.8	18.5	19.6	28.7	22.3	22.6	21.2	20.4	16.1	23.9	20.3	19.9
11	DKC 7204	15.5	17.1	18.6	20.3	17.8	28.1	18.4	24.9	29.3	24.0	25.2	24.0	20.6	20.7	24.8	22.6	22.1
12	EH 3524	16.3	14.9	17.2	21.0	17.4	28.2	18.3	21.6	28.1	26.1	24.1	26.2	20.6	20.6	29.7	24.5	22.2
13	EH 3571	16.1	15.1	20.2	19.4	17.6	26.8	18.4	20.0	28.8	25.5	24.0	25.0	20.8	18.1	27.0	22.8	21.7
14	FH 3912	16.1	17.6	16.2	20.0	17.5	26.5	18.3	23.7	29.2	25.7	24.7	23.8	20.3	20.6	27.2	22.7	21.9
15	HKH 370	16.5	14.9	19.2	21.2	17.9	26.0	18.7	19.9	28.5	23.9	23.4	21.8	20.8	18.0	25.9	21.4	21.1
16	IMHSB-19K-1	16.3	13.6	18.4	19.7	17.0	24.9	18.6	23.2	28.8	25.7	24.3	22.4	20.3	18.4	26.8	21.8	21.3
17	JH 32006	16.3	14.2	17.1	17.3	16.2	25.3	18.5	21.5	28.9	25.6	24.1	23.1	20.5	19.4	26.5	22.5	21.2
18	JH 32328	15.9	15.9	18.4	20.2	17.7	29.2	18.7	23.6	28.7	23.3	24.7	23.2	20.0	21.3	26.1	22.5	21.9
19	JH 32375	15.2	17.7	20.3	19.4	18.2	28.3	18.5	23.9	28.6	26.8	25.3	23.2	20.2	20.8	28.9	23.2	22.5
20	JH 32385	18.7	16.1	20.6	19.1	18.5	25.1	18.0	19.5	28.4	29.5	24.1	22.4	20.2	19.6	27.8	22.6	22.0
21	JH 32391	15.6	13.5	17.7	19.7	16.6	26.0	17.9	20.8	29.0	23.7	23.4	23.2	20.6	19.0	24.3	21.9	20.8
22	KH 102E	15.5	15.9	18.8	21.2	18.0	26.2	18.5	22.8	28.3	26.3	24.2	25.1	20.0	19.0	27.8	22.8	21.9
23	KMH 18-13	16.9	13.9	17.6	19.8	17.1	25.8	18.6	18.2	28.1	22.7	22.7	23.3	20.5	18.0	22.9	20.8	20.4
24	KMH 18-15	16.7	14.3	20.4	19.6	17.6	24.0	18.3	20.4	28.2	25.8	23.2	23.4	20.9	17.7	20.7	21.0	20.8
25	KNMH 4193	15.5	16.7	18.4	20.8	17.9	26.6	18.5	21.4	28.6	24.0	24.0	24.0	20.5	20.4	24.1	22.2	21.6
26	LMH 1946	15.7	17.3	17.9	20.0	17.8	27.6	18.4	21.0	28.3	26.9	24.3	24.8	20.6	20.0	24.1	22.3	21.7
27	Rasi 50252	15.4	16.2	18.5	18.9	17.2	28.6	18.3	20.4	28.6	26.4	24.4	23.6	20.9	18.3	27.1	22.7	21.7
28	VEH18-1	16.4	12.3	19.3	20.1	17.0	23.1	18.0	20.2	28.9	27.7	23.8	21.6	20.1	17.9	25.2	21.2	20.9
29	Bio 605 (C)	14.9	16.3	16.1	19.4	16.6	26.7	18.4	23.2	28.7	21.9	23.8	22.6	20.8	19.9	26.6	22.4	21.2
30	DKC7074 (C)	17.0	16.4	16.8	19.5	17.6	27.7	18.8	22.4	28.7	24.8	24.5	24.2	20.9	19.9	28.4	23.2	22.0
31	Vivek Hybrid 45 (C)	16.6	13.5	17.6	18.7	16.6	24.1	17.8	19.7	28.9	22.4	22.4	23.3	19.8	17.3	28.4	22.0	20.5
32	Vivek Hybrid 51 (C)	16.0	13.5	17.5	18.5	16.3	26.5	18.5	20.9	28.4	29.3	24.8	21.5	20.0	17.2	25.9	21.5	21.2
	L Mean	16.2	15.2	18.4	19.5	17.4	26.4	18.4	21.4	28.6	25.3	23.7	23.6	20.4	18.9	25.9	22.2	21.2
	CV (%)	7.3	6.9	6.2	0.0	5.5	3.5	1.3	6.4	1.5	13.1	7.4	7.9	3.5	3.2	10.4	7.5	7.2
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.3	0.0	0.1	0.9	0.0	0.0	0.0	0.0
	CD (5%)	2.0	1.7	1.9	0.0	0.8	1.5	0.4	2.2	0.7	5.4	1.3	3.1	1.2	1.0	4.4	1.3	0.7
	CD (1%)	2.6	2.3	2.5	0.0	1.0	2.0	0.5	3.0	1.0	7.2	1.8	4.1	1.5	1.3	5.9	1.8	0.9

Table No. : 1 **(Conti...)** **Days to 75% Dry husk**

S. No.	Entry Name	CWZ					NEPZ						NWPZ					All India
		AMBI	CHIND	GODH	UDAI	ZONE	BHU	BHUB	DHOL	RANC	SABOU	ZONE	IARI	KARN	LUDH	PANT	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8178	89	94	90	89	91	89	84	89	84	89	87	85	87	88	94	88	88
2	AH 8323	90	93	90	92	91	90	86	89	84	89	88	85	83	87	96	87	89
3	AH 8622	90	94	88	91	91	92	84	91	85	86	88	84	80	90	97	88	89
4	AH1608	91	94	88	92	91	90	84	89	85	88	87	85	87	87	96	89	89
5	AH3254	.	85	88	87	.	85	81	83	82	79	82	87	81	82	91	85	.
6	BAU-MH-18-1	91	93	90	88	91	92	85	94	85	89	89	86	86	88	96	89	89
7	BYMH-13-5	88	90	86	89	88	88	82	86	84	87	86	85	84	88	94	88	87
8	DH 321	88	93	90	88	90	87	83	87	84	86	85	86	82	85	93	86	87
9	DH 329	85	90	88	90	88	84	83	85	83	83	83	83	81	84	91	84	85
10	DH 330	88	87	84	89	87	86	82	82	83	82	83	88	80	85	91	86	85
11	DKC 7204	89	94	87	92	91	88	85	92	85	89	88	84	82	89	96	88	89
12	EH 3524	91	92	89	92	91	90	84	91	83	88	87	87	86	88	95	89	89
13	EH 3571	90	90	87	91	89	87	85	88	84	85	86	84	83	86	96	87	87
14	FH 3912	89	90	88	89	89	90	83	88	83	86	86	83	83	86	94	87	87
15	HKH 370	88	94	88	91	90	86	84	88	85	87	86	87	84	87	95	88	88
16	IMHSB-19K-1	89	90	90	90	90	90	85	91	85	87	87	87	86	88	96	89	89
17	JH 32006	90	93	85	89	89	88	83	87	84	87	86	86	84	87	94	88	87
18	JH 32328	89	92	88	90	90	89	83	89	85	88	87	87	82	88	96	88	88
19	JH 32375	90	93	86	89	89	88	86	88	84	87	87	86	84	88	93	88	88
20	JH 32385	89	91	90	87	90	89	84	88	85	86	86	85	86	87	94	88	88
21	JH 32391	91	88	87	90	89	88	84	91	84	86	86	86	84	86	93	87	87
22	KH 102E	88	91	86	89	89	88	82	86	83	86	85	86	87	87	94	88	87
23	KMH 18-13	86	86	85	89	86	85	82	84	83	83	83	84	80	84	90	84	85
24	KMH 18-15	88	91	89	90	90	86	84	88	83	84	85	86	81	83	93	86	87
25	KNMH 4193	89	93	86	92	90	89	85	88	85	88	87	86	87	88	96	89	89
26	LMH 1946	90	93	87	89	90	87	84	88	84	86	86	86	82	86	94	87	87
27	Rasi 50252	89	92	88	90	90	90	84	90	84	87	87	87	84	88	95	89	88
28	VEH18-1	86	85	86	89	87	84	82	86	84	85	84	86	79	85	92	86	86
29	Bio 605 (C)	89	93	91	90	91	90	81	90	83	86	86	86	82	87	95	87	88
30	DKC7074 (C)	90	94	88	92	91	88	84	87	84	88	86	85	84	88	95	88	88
31	Vivek Hybrid 45 (C)	86	94	87	90	89	84	83	85	82	84	84	86	82	86	93	87	86
32	Vivek Hybrid 51 (C)	84	87	86	87	86	85	81	84	82	79	82	85	86	83	92	87	85
	L Mean	88.7	91.3	87.6	89.8	89.4	87.9	83.5	87.9	83.9	85.9	85.8	85.6	83.4	86.6	94.0	87.4	87.4
	CV (%)	1.1	1.6	3.4	1.3	2.1	1.8	2.0	2.3	0.9	2.0	1.9	2.7	2.1	1.8	1.8	2.1	2.0
	F (Prob)	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0
	CD (5%)	1.6	2.4	4.9	2.0	1.5	2.6	2.7	3.3	1.2	2.8	1.2	3.8	2.8	2.5	2.8	1.5	0.8
	CD (1%)	2.1	3.2	6.5	2.6	2.0	3.5	3.6	4.3	1.6	3.7	1.6	5.1	3.8	3.3	3.7	2.0	1.1

Table No. : 1 (Conti...) Days to 50% Anthesis

S. No.	Entry Name	CWZ					NEPZ						NWPZ					All India
		AMBI	CHIND	GODH	UDAI	ZONE	BHU	BHUB	DHOL	RANC	SABOU	ZONE	IARI	KARN	LUDH	PANT	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8178	46	57	53	51	52	54	44	49	48	54	49	39	53	54	53	50	50
2	AH 8323	47	58	54	51	52	54	48	52	48	54	51	46	49	53	55	51	51
3	AH 8622	47	58	55	49	52	55	44	52	48	55	51	43	47	53	55	50	51
4	AH1608	47	60	54	51	53	55	45	54	49	55	52	45	53	54	55	52	52
5	AH3254	.	56	50	45	.	51	46	49	43	49	48	51	47	47	50	49	.
6	BAU-MH-18-1	47	58	51	52	52	57	44	57	49	55	53	48	52	56	55	53	52
7	BYMH-13-5	46	54	53	46	50	53	44	50	46	53	49	43	51	53	52	50	50
8	DH 321	45	55	53	48	50	52	45	49	45	51	48	45	48	50	51	48	49
9	DH 329	43	49	51	47	47	48	45	49	43	50	47	44	48	49	51	48	47
10	DH 330	47	54	48	47	49	50	44	50	46	50	48	45	47	50	51	48	49
11	DKC 7204	47	54	50	47	50	51	44	52	46	52	49	45	48	53	53	50	49
12	EH 3524	47	56	53	51	52	56	44	53	49	54	51	45	53	55	55	52	51
13	EH 3571	47	56	53	48	51	53	46	51	46	52	50	41	49	52	54	49	50
14	FH 3912	47	58	52	49	51	54	43	52	47	52	50	41	50	52	54	49	50
15	HKH 370	47	58	54	51	53	52	45	51	48	53	50	45	50	52	54	50	51
16	IMHSB-19K-1	47	57	55	48	52	54	44	54	48	53	51	47	53	55	56	52	51
17	JH 32006	46	57	50	48	51	53	43	50	48	52	49	44	51	54	53	51	50
18	JH 32328	46	55	53	49	51	53	43	50	48	51	49	41	49	54	55	50	50
19	JH 32375	47	55	50	49	50	52	46	50	47	51	49	44	50	53	52	50	50
20	JH 32385	47	56	52	49	51	53	47	50	47	52	50	46	52	52	53	51	50
21	JH 32391	48	54	48	50	50	52	46	51	47	52	49	45	51	53	52	50	50
22	KH 102E	46	53	49	48	49	53	43	49	44	51	48	44	54	51	53	51	49
23	KMH 18-13	44	54	48	47	48	49	45	48	44	50	47	46	46	48	50	48	48
24	KMH 18-15	46	54	53	48	50	52	45	50	46	50	49	44	49	49	52	49	49
25	KNMH 4193	46	57	50	49	51	55	47	53	48	55	52	48	53	55	55	53	52
26	LMH 1946	47	56	49	47	50	52	45	49	46	52	49	43	48	52	55	49	49
27	Rasi 50252	45	54	50	46	49	54	45	49	46	52	50	44	51	52	54	50	49
28	VEH18-1	44	53	49	50	49	50	43	49	45	51	47	47	46	50	52	49	48
29	Bio 605 (C)	46	56	53	49	51	53	45	52	46	53	50	49	49	54	54	51	51
30	DKC7074 (C)	46	56	52	46	50	54	46	52	47	53	50	41	50	53	54	49	50
31	Vivek Hybrid 45 (C)	45	53	51	50	50	49	45	48	42	50	47	48	49	51	53	50	49
32	Vivek Hybrid 51 (C)	44	50	47	44	46	49	44	48	43	49	47	42	52	49	51	49	47
	L Mean	46.1	55.3	51.3	48.4	50.3	52.6	44.8	50.7	46.4	52.1	49.3	44.6	50.0	52.1	53.2	50.0	49.8
	CV (%)	1.8	2.1	5.9	2.7	3.6	2.0	2.7	2.1	2.0	1.8	2.1	9.3	3.4	2.3	1.9	4.8	3.6
	F (Prob)	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
	CD (5%)	1.4	1.9	4.9	2.2	1.5	1.7	2.0	1.8	1.6	1.5	0.8	6.8	2.8	1.9	1.6	2.0	0.8
	CD (1%)	1.8	2.5	6.6	2.9	2.0	2.3	2.6	2.4	2.1	2.0	1.0	9.1	3.7	2.6	2.2	2.7	1.1

Table No. : 1 **(Conti...)** **Days to 50% Silking**

S. No.	Entry Name	CWZ					NEPZ						NWPZ					All India
		AMBI	CHIND	GODH	UDAI	ZONE	BHU	BHUB	DHOL	RANC	SABOU	ZONE	IARI	KARN	LUDH	PANT	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8178	49	57	57	53	54	54	45	51	51	58	52	43	54	54	56	52	52
2	AH 8323	49	59	58	53	55	56	49	54	52	57	54	48	51	54	57	52	54
3	AH 8622	51	59	58	51	55	57	45	54	52	59	53	47	48	53	57	51	53
4	AH1608	50	60	58	53	55	56	47	56	53	58	54	47	54	56	58	53	54
5	AH3254	.	57	54	46	.	54	47	54	47	52	51	53	49	48	53	51	.
6	BAU-MH-18-1	49	60	55	54	54	61	46	60	52	61	56	52	54	58	58	55	55
7	BYMH-13-5	49	54	57	49	52	55	45	52	50	57	52	47	52	55	55	52	52
8	DH 321	48	56	56	49	52	53	47	51	49	54	51	47	50	51	54	50	51
9	DH 329	46	51	54	48	50	49	46	51	47	53	49	47	49	49	54	50	49
10	DH 330	50	57	52	49	52	52	45	52	49	53	50	48	48	51	54	50	51
11	DKC 7204	50	56	54	48	52	52	45	54	50	57	52	48	50	55	56	52	52
12	EH 3524	50	58	56	53	54	58	45	55	52	59	54	47	54	57	58	54	54
13	EH 3571	49	56	57	50	53	53	48	53	49	56	52	44	50	52	57	51	52
14	FH 3912	50	58	55	51	53	56	45	54	50	57	52	44	50	53	57	51	52
15	HKH 370	50	59	57	53	55	54	45	53	51	58	52	48	52	53	57	52	53
16	IMHSB-19K-1	50	59	58	51	54	56	46	56	51	56	53	50	54	56	58	54	54
17	JH 32006	49	58	54	50	53	54	45	52	50	56	51	47	53	55	55	53	52
18	JH 32328	49	57	56	51	53	55	45	52	50	56	52	45	50	55	58	52	52
19	JH 32375	49	56	54	51	52	53	48	51	50	55	52	47	51	54	55	52	52
20	JH 32385	50	57	56	50	53	55	48	53	51	56	52	49	53	54	56	53	53
21	JH 32391	50	54	52	52	52	52	47	53	50	55	52	49	52	54	55	52	52
22	KH 102E	49	55	52	49	51	55	44	51	47	56	51	47	55	52	56	53	51
23	KMH 18-13	47	54	51	49	50	50	46	50	47	54	50	48	47	48	53	49	50
24	KMH 18-15	49	56	57	49	53	53	47	52	48	54	51	48	50	49	55	50	51
25	KNMH 4193	49	57	54	52	53	57	49	55	52	60	54	50	54	56	58	55	54
26	LMH 1946	49	57	53	49	52	53	47	51	49	55	51	46	49	53	57	51	51
27	Rasi 50252	48	54	53	48	51	54	46	51	50	57	52	46	53	52	56	52	51
28	VEH18-1	47	54	52	51	51	51	44	51	48	54	50	49	48	52	54	51	50
29	Bio 605 (C)	49	57	57	51	53	54	47	54	50	57	52	52	50	55	57	53	53
30	DKC7074 (C)	49	57	55	49	52	55	47	54	50	57	53	44	51	55	57	52	52
31	Vivek Hybrid 45 (C)	48	55	54	51	52	51	47	50	45	54	49	50	50	51	55	51	51
32	Vivek Hybrid 51 (C)	47	50	51	46	49	51	46	50	46	53	49	46	54	49	54	51	49
	L Mean	48.9	56.3	54.9	50.3	52.6	54.0	46.2	52.9	49.7	56.0	51.8	47.5	51.2	53.1	55.8	51.9	52.1
	CV (%)	1.6	2.2	5.5	2.5	3.4	2.7	2.7	2.3	2.6	2.3	2.5	8.1	3.2	2.2	1.9	4.3	3.4
	F (Prob)	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
	CD (5%)	1.3	2.0	5.0	2.0	1.5	2.4	2.1	2.0	2.1	2.1	1.0	6.3	2.7	1.9	1.7	1.9	0.8
	CD (1%)	1.7	2.6	6.6	2.7	2.0	3.1	2.8	2.7	2.8	2.8	1.3	8.4	3.6	2.5	2.3	2.5	1.1

Table No. : 1 **(Conti...)** **Plant Height (cm)**

S. No.	Entry Name	CWZ					NEPZ						NWPZ					All India
		AMBI	CHIND	GODH	UDAI	ZONE	BHU	BHUB	DHOL	RANC	SABOU	ZONE	IARI	KARN	LUDH	PANT	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8178	248	181	169	181	195	195	152	199	211	156	181	234	195	223	282	235	202
2	AH 8323	266	194	166	193	206	217	175	207	215	173	199	260	222	228	284	251	217
3	AH 8622	269	195	172	201	209	205	165	188	224	180	193	247	210	221	292	241	212
4	AH1608	283	209	175	204	217	192	167	181	207	187	187	251	223	227	307	250	216
5	AH3254	.	127	179	164	.	116	148	152	165	105	135	150	135	147	188	156	.
6	BAU-MH-18-1	259	171	171	194	200	194	155	183	200	151	177	222	193	193	259	219	197
7	BYMH-13-5	247	179	172	188	197	178	170	190	202	162	182	223	208	228	272	234	203
8	DH 321	239	156	181	187	191	171	157	182	185	128	164	223	190	189	260	217	188
9	DH 329	211	153	163	165	172	157	154	155	177	135	156	219	184	164	233	202	175
10	DH 330	217	159	166	154	175	173	150	153	185	135	159	220	181	191	236	204	178
11	DKC 7204	235	173	179	172	190	198	151	162	189	155	173	239	192	213	251	223	194
12	EH 3524	238	179	174	201	198	198	160	202	196	172	186	228	193	230	294	238	206
13	EH 3571	232	170	178	191	191	178	157	166	201	159	171	224	181	196	262	216	191
14	FH 3912	225	167	163	186	186	189	167	158	204	141	171	229	196	209	267	222	191
15	HKH 370	247	186	178	185	198	189	186	185	206	157	184	223	212	203	261	223	200
16	IMHSB-19K-1	257	176	173	190	198	184	161	193	194	161	178	235	190	224	271	228	200
17	JH 32006	226	173	170	185	187	187	165	182	210	165	183	232	194	215	267	227	198
18	JH 32328	257	171	169	203	201	195	158	180	204	165	180	233	194	194	273	223	199
19	JH 32375	244	165	166	173	188	187	166	188	196	153	177	226	203	212	267	225	195
20	JH 32385	263	181	178	195	204	192	165	178	202	160	179	238	194	222	297	238	205
21	JH 32391	242	171	185	190	196	200	162	181	201	160	183	233	187	216	278	230	202
22	KH 102E	239	172	162	177	189	181	157	165	183	136	165	214	163	177	242	201	183
23	KMH 18-13	221	154	169	188	183	173	154	151	185	137	158	214	188	184	233	206	180
24	KMH 18-15	238	176	158	169	186	193	160	167	206	156	177	233	193	214	282	230	196
25	KNMH 4193	260	179	180	196	204	196	161	187	201	132	176	239	207	202	279	232	202
26	LMH 1946	245	169	162	186	191	179	158	189	199	163	177	240	202	198	265	225	196
27	Rasi 50252	237	171	176	193	194	188	160	194	207	134	175	231	185	201	267	222	195
28	VEH18-1	210	154	166	154	171	168	145	160	186	127	159	208	167	202	240	204	177
29	Bio 605 (C)	245	175	172	193	196	203	160	183	203	166	182	244	201	215	273	233	202
30	DKC7074 (C)	228	165	179	176	189	183	155	177	179	138	167	216	184	183	264	211	187
31	Vivek Hybrid 45 (C)	208	149	173	146	167	150	153	152	170	119	149	191	161	172	218	187	166
32	Vivek Hybrid 51 (C)	220	169	180	163	183	161	152	175	192	151	166	197	165	186	262	203	183
	L Mean	240.6	171.0	171.9	182.6	191.1	183.4	159.7	177.1	196.4	150.6	173.4	225.4	190.4	202.5	263.3	220.4	193.3
	CV (%)	4.4	4.3	4.2	7.0	5.1	5.1	7.0	11.3	4.4	8.8	7.6	5.8	5.5	5.6	3.4	5.0	6.0
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	17.3	12.2	11.7	20.8	8.1	15.4	18.4	32.8	14.0	21.6	10.0	21.3	17.0	18.6	14.7	9.2	5.4
	CD (1%)	23.0	16.2	15.6	27.7	10.7	20.5	24.5	43.7	18.6	28.8	13.2	28.3	22.6	24.8	19.5	12.1	7.1

Table No. : 1 **(Conti...)** **Shelling (%)**

S. No.	Entry Name	CWZ					NEPZ						NWPZ					All India
		AMBI	CHIND	GODH	UDAI	ZONE	BHU	BHUB	DHOL	RANC	SABOU	ZONE	IARI	KARN	LUDH	PANT	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8178	75	84	85	70	79	78	81	75	85	71	77	80	80	79	81	80	79
2	AH 8323	78	87	86	72	81	77	81	84	85	83	82	82	79	84	81	82	82
3	AH 8622	77	84	85	69	79	74	81	80	86	79	80	77	80	85	82	81	80
4	AH1608	79	81	80	70	77	74	81	78	85	81	80	87	80	82	81	82	80
5	AH3254	.	88	86	69	.	84	81	78	84	78	81	81	78	81	82	80	.
6	BAU-MH-18-1	77	86	78	70	78	77	81	86	85	82	82	78	80	83	85	82	81
7	BYMH-13-5	76	86	87	70	80	76	81	78	85	78	80	79	78	84	79	81	80
8	DH 321	77	88	75	70	77	76	80	75	83	84	79	83	79	83	81	82	80
9	DH 329	76	88	81	71	79	81	81	79	84	88	83	81	77	84	81	81	81
10	DH 330	78	87	84	71	80	81	80	80	83	84	82	81	81	81	84	82	81
11	DKC 7204	78	88	82	71	80	80	82	82	84	82	82	80	79	83	83	82	81
12	EH 3524	75	87	84	70	79	75	81	76	82	75	78	83	79	83	80	82	79
13	EH 3571	77	88	84	73	80	75	80	80	83	81	80	85	81	84	82	83	81
14	FH 3912	78	89	82	73	80	73	81	77	84	77	79	85	79	85	86	84	81
15	HKH 370	78	85	82	69	78	74	81	79	82	78	79	75	80	80	83	79	79
16	IMHSB-19K-1	78	84	83	72	79	74	82	82	84	85	82	78	80	82	84	81	81
17	JH 32006	76	85	82	73	79	77	82	82	84	80	81	84	78	83	87	83	81
18	JH 32328	78	88	80	74	80	78	81	83	84	84	82	86	81	84	80	83	82
19	JH 32375	76	86	74	72	77	75	80	80	82	79	79	87	79	84	85	83	80
20	JH 32385	77	86	86	70	80	76	81	81	86	83	81	79	80	85	82	81	81
21	JH 32391	78	90	82	73	81	79	82	80	83	84	82	74	77	85	86	81	81
22	KH 102E	77	86	82	70	79	78	79	80	84	79	80	82	80	84	81	82	80
23	KMH 18-13	78	86	84	70	80	80	83	89	86	81	84	82	78	83	82	81	82
24	KMH 18-15	79	90	74	73	78	75	81	77	84	77	79	83	78	85	78	81	79
25	KNMH 4193	77	80	79	74	78	79	82	81	84	72	79	84	79	82	81	81	79
26	LMH 1946	77	88	82	72	80	79	82	79	85	84	82	86	80	84	83	83	82
27	Rasi 50252	77	85	83	72	80	76	81	79	83	79	80	86	80	85	82	83	80
28	VEH18-1	78	89	82	70	80	80	81	82	84	82	82	82	79	84	83	82	82
29	Bio 605 (C)	79	88	79	70	79	77	80	80	83	81	81	76	79	85	82	81	80
30	DKC7074 (C)	78	81	84	73	79	76	81	79	86	78	80	87	79	84	83	83	81
31	Vivek Hybrid 45 (C)	76	89	78	70	78	82	82	83	85	82	83	81	79	86	83	82	81
32	Vivek Hybrid 51 (C)	77	85	78	69	77	79	83	81	85	82	82	81	79	83	85	82	80
	L Mean	77.2	86.3	81.7	71.2	79.1	77.4	81.2	80.2	84.2	80.4	80.4	81.8	79.2	83.4	82.4	81.7	80.4
	CV (%)	1.6	3.8	3.3	0.0	2.8	1.4	0.7	3.4	1.6	0.0	1.8	6.9	2.3	1.4	2.6	3.9	3.0
	F (Prob)	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.6	0.8	0.0	0.0	0.0	0.0
	CD (5%)	2.1	5.4	4.4	0.0	1.8	1.7	0.9	4.5	2.2	0.0	1.1	9.3	2.9	2.0	3.5	2.7	1.1
	CD (1%)	2.7	7.2	5.9	0.0	2.3	2.3	1.3	6.0	3.0	0.0	1.4	12.3	3.9	2.6	4.7	3.5	1.4

Table No. : 2 **Trial No. 596 (NIVT, Early Maturity), NHZ**

Yield Kg/ha

S. No.	Entry Name	NHZ														All India	
		BARA		GOSS		IMPH		KANG		SRIN		VPKA		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	AH1608	5172	18	6694	17	10341	16	5360	16	6364	12	7693	10	6453	14	6453	14
2	AH3254	1441	28	3604	26	7453	23	5129	18	5369	27	4751	27	5119	28	5119	28
3	AH4045	3740	25	8631	6	15277	5	4827	21	6159	18	7482	13	6062	21	6062	21
4	AH8178	7582	9	8454	7	12545	10	5788	13	6008	20	9275	1	6936	7	6936	7
5	AH8323	10310	2	6402	19	11071	15	4811	23	6197	16	9265	2	6849	11	6849	11
6	AH8622	9499	5	5822	21	15524	4	6551	8	4663	28	8270	7	6342	15	6342	15
7	DH321	6458	14	6951	16	11934	13	5165	17	6059	19	6573	22	5984	22	5984	22
8	DH322	6676	13	7623	12	15564	3	4663	25	6225	15	7005	17	6085	18	6085	18
9	DKC7204	8181	8	12133	2	15907	2	6116	10	6993	4	8702	5	7218	5	7218	5
10	FH3900	4831	20	7712	11	12521	11	5621	14	5842	23	7948	8	6548	13	6548	13
11	FH3912	10129	3	10508	4	15128	7	7209	3	5877	21	8967	4	7408	3	7408	3
12	FH3917	9626	4	6641	18	14547	8	6661	7	6692	6	7486	12	6884	10	6884	10
13	H118	3786	23	4370	24	7878	21	4203	26	7075	3	6042	24	5713	24	5713	24
14	H119	1534	27	2234	28	3549	28	3668	28	6450	8	5874	26	5364	26	5364	26
15	H120	5806	16	2967	27	5795	27	3732	27	6168	17	5963	25	5489	25	5489	25
16	H121	3747	24	4438	23	7286	24	5111	19	6380	11	4551	28	5338	27	5338	27
17	HKH370	6868	12	8649	5	6260	26	4823	22	5710	25	7882	9	6247	16	6247	16
18	HKH371	6244	15	11419	3	11487	14	4742	24	5851	22	6963	18	5865	23	5865	23
19	KMH1813	6906	11	7894	9	7519	22	10514	2	6551	7	7261	15	8168	2	8168	2
20	KMH1815	3649	26	8419	8	8525	20	11138	1	7216	2	7469	14	8579	1	8579	1
21	LMH1945	8724	7	7862	10	12363	12	5802	12	5391	26	6770	21	6073	20	6073	20
22	LMH1946	4846	19	7106	14	15180	6	6470	9	5737	24	8573	6	6890	9	6890	9
23	LMH1947	7572	10	4147	25	8758	18	5937	11	6351	13	6184	23	6073	19	6073	19
24	LMH1948	5546	17	4519	22	8816	17	4855	20	6384	10	7254	16	6090	17	6090	17
25	PMH5 (C)	4560	21	7209	13	6975	25	6784	6	6742	5	6921	19	6907	8	6907	8
26	VIVEK HYB-45 (C)	4255	22	7041	15	8688	19	5491	15	7698	1	6890	20	6595	12	6595	12
27	BIO 605 (C)	11136	1	6010	20	13715	9	6814	5	6302	14	9225	3	7365	4	7365	4
28	DKC7074 (C)	9377	6	13153	1	18163	1	7145	4	6430	9	7653	11	6993	6	6993	6
	L Mean	6364.29	.	7093.29	.	11027.53	.	5897.44	.	6245.8	.	7317.57	.	6486.94	.	6486.94	.
	CV (%)	31.8	.	32.05	.	31.96	.	15.81	.	18.07	.	10.31	.	14.69	.	14.69	.
	F (Prob)	0	.	0	.	0	.	0	.	0.74	.	0	.	0	.	0	.
	CD (5%)	3328.32	.	3738.39	.	5795.94	.	1533.07	.	1856.37	.	1240.65	.	929.3	.	929.3	.
	CD (1%)	4444.56	.	4992.16	.	7739.75	.	2047.23	.	2478.96	.	1656.73	.	1227.7	.	1227.7	.

Table No. : 2 (Conti...)		Number of Cobs								Ear Height (cm)							
S. No.	Entry Name	NHZ							All India	NHZ							All India
		BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE		BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH1608	18	26	20	32	41	22	27	27	58	90	127	119	96	166	106	106
2	AH3254	11	23	21	33	36	22	25	25	42	74	133	98	111	98	86	86
3	AH4045	13	36	23	33	39	23	29	29	56	74	120	103	114	133	97	97
4	AH8178	24	26	11	33	36	23	28	28	59	87	127	116	118	125	101	101
5	AH8323	32	23	24	31	39	22	29	29	76	95	146	120	112	144	109	109
6	AH8622	29	13	14	33	41	21	28	28	71	82	124	106	108	122	97	97
7	DH321	26	35	26	32	41	23	31	31	56	78	112	100	122	118	95	95
8	DH322	18	32	21	33	39	21	29	29	53	84	410	110	110	131	98	98
9	DKC7204	29	41	22	34	41	24	33	33	54	93	134	112	115	129	101	101
10	FH3900	10	37	21	32	39	23	28	28	49	81	77	99	99	103	87	87
11	FH3912	30	39	66	34	39	25	33	33	57	71	119	112	121	109	93	93
12	FH3917	29	30	17	37	40	24	32	32	58	71	73	108	112	118	94	94
13	H118	14	25	6	32	42	22	27	27	68	79	81	100	102	136	97	97
14	H119	20	16	11	33	40	22	26	26	45	65	131	93	121	104	85	85
15	H120	20	20	19	31	40	22	26	26	56	74	95	106	114	117	92	92
16	H121	20	31	18	33	39	21	28	28	39	78	106	108	107	117	89	89
17	HKH370	23	26	17	31	40	21	28	28	53	85	147	114	127	136	101	101
18	HKH371	18	35	10	33	37	21	29	29	65	87	114	122	126	137	107	107
19	KMH1813	26	32	19	36	38	24	31	31	70	77	116	104	115	128	99	99
20	KMH1815	22	34	19	35	39	25	31	31	39	75	143	105	91	115	87	87
21	LMH1945	35	40	29	32	37	24	34	34	55	76	149	109	116	103	91	91
22	LMH1946	17	26	23	35	37	24	28	28	58	86	126	105	92	120	93	93
23	LMH1947	32	28	15	33	40	22	30	30	48	73	98	103	112	113	91	91
24	LMH1948	16	21	9	34	39	21	26	26	45	68	103	100	111	113	87	87
25	PMH5 (C)	19	29	21	35	40	21	28	28	58	81	73	115	109	119	96	96
26	VIVEK HYB-45 (C)	15	33	16	33	39	23	28	28	36	60	109	102	111	102	82	82
27	BIO 605 (C)	31	36	12	35	38	23	33	33	72	85	130	113	102	135	102	102
28	DKC7074 (C)	32	44	28	34	38	24	34	34	59	86	125	110	102	124	96	96
	Location Mean	22.5	29.8	20.0	33.3	39.0	22.6	29.4	29.4	55.6	79.2	126.7	107.6	110.7	122.0	95.0	95.0
	CV (%)	29.9	19.9	71.3	6.9	5.5	5.2	14.6	14.6	16.4	11.0	76.3	5.4	11.6	8.8	10.2	10.2
	F (Prob)	0.0	0.0	0.1	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.2	0.0	0.0	0.0
	CD (5%)	11.1	9.7	23.4	3.8	3.5	1.9	3.2	3.2	15.0	14.3	158.9	9.5	21.1	17.7	7.1	7.1
	CD (1%)	14.8	13.0	31.3	5.0	4.7	2.6	4.2	4.2	20.1	19.1	212.2	12.6	28.2	23.6	9.4	9.4

Table No. : 2 (Conti...)		Final Plant Stand (000/ha)								Moisture (%)							
S. No.	Entry Name	NHZ							All India	NHZ							All India
		BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE		BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH1608	70	133	72	67	61	61	77	77	32.8	17.8	26.5	33.4	16.9	19.9	25.9	25.9
2	AH3254	52	119	92	69	59	64	76	76	31.5	17.9	13.6	30.6	17.8	16.6	24.3	24.3
3	AH4045	50	158	118	69	57	63	86	86	33.6	17.8	14.2	31.6	17.5	18.2	25.3	25.3
4	AH8178	95	117	82	68	60	62	81	81	33.6	17.3	19.7	33.5	18.7	20.7	26.5	26.5
5	AH8323	92	110	79	63	61	59	78	78	32.5	18.6	15.6	32.6	18.1	19.2	25.8	25.8
6	AH8622	116	72	106	70	60	60	81	81	34.2	17.2	10.8	35.3	47.7	22.3	27.3	27.3
7	DH321	100	158	101	66	56	65	90	90	30.7	18.0	8.9	30.4	17.9	19.1	24.5	24.5
8	DH322	82	151	87	69	59	58	85	85	31.8	17.9	11.8	31.6	17.3	19.5	25.2	25.2
9	DKC7204	110	174	86	70	58	66	94	94	32.2	18.0	10.6	32.4	14.5	21.2	25.9	25.9
10	FH3900	37	164	102	66	59	63	83	83	32.2	18.5	15.9	34.0	18.2	20.0	26.1	26.1
11	FH3912	131	168	101	72	61	67	99	99	29.9	18.5	17.0	27.9	18.9	18.6	23.8	23.8
12	FH3917	115	141	90	79	61	66	92	92	31.7	17.4	10.8	31.4	13.5	20.4	24.9	24.9
13	H118	55	124	83	68	59	62	76	76	33.6	17.5	10.0	31.4	14.3	22.9	26.2	26.2
14	H119	86	121	71	68	57	59	78	78	31.9	12.7	14.7	29.6	20.6	18.7	23.3	23.3
15	H120	69	90	78	63	59	62	70	70	31.5	18.0	15.5	30.3	16.1	18.5	24.4	24.4
16	H121	82	140	80	69	59	62	81	81	32.2	17.9	15.2	28.6	17.5	18.4	24.1	24.1
17	HKH370	91	121	84	66	59	59	79	79	33.6	18.0	11.7	32.1	21.5	20.2	26.0	26.0
18	HKH371	70	152	79	68	58	58	82	82	33.5	17.9	12.6	32.5	20.1	22.1	26.6	26.6
19	KMH1813	90	146	86	74	60	63	85	85	30.2	16.3	10.3	27.8	20.5	19.0	23.3	23.3
20	KMH1815	94	163	101	72	59	68	93	93	30.4	17.8	12.1	28.1	17.2	17.9	23.7	23.7
21	LMH1945	144	173	105	66	61	64	102	102	31.2	18.3	16.0	29.9	17.6	17.9	24.5	24.5
22	LMH1946	67	122	84	75	60	65	79	79	33.7	18.0	13.3	33.2	12.2	22.9	26.9	26.9
23	LMH1947	129	133	74	67	57	62	87	87	31.4	17.7	13.3	31.2	17.7	18.0	24.5	24.5
24	LMH1948	71	88	82	68	61	57	71	71	31.3	17.4	14.6	29.8	21.2	17.8	24.3	24.3
25	PMH5 (C)	80	127	88	74	61	56	80	80	30.0	17.8	14.8	31.3	16.9	20.9	24.7	24.7
26	VIVEK HYB-45 (C)	67	150	86	69	61	62	82	82	33.2	17.4	17.1	30.3	12.5	18.6	24.7	24.7
27	BIO 605 (C)	128	162	90	73	62	64	97	97	33.6	18.0	11.5	31.3	19.4	20.9	26.1	26.1
28	DKC7074 (C)	131	187	117	71	59	62	104	104	33.1	17.5	11.5	31.6	18.5	21.3	26.0	26.0
	Location Mean	89.4	138.1	89.3	69.3	59.4	62.2	84.6	84.6	32.2	17.6	13.9	31.2	18.6	19.7	25.2	25.2
	CV (%)	29.6	16.6	23.7	7.5	4.1	4.9	20.0	20.0	3.5	6.1	37.2	3.1	52.9	6.3	4.4	4.4
	F (Prob)	0.0	0.0	0.6	0.3	0.7	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.5	0.0	0.0	0.0
	CD (5%)	43.5	37.6	34.7	8.6	4.0	5.0	11.6	11.6	1.9	1.8	8.5	1.6	16.2	2.1	0.9	0.9
	CD (1%)	58.1	50.2	46.4	11.4	5.4	6.7	15.2	15.2	2.5	2.4	11.4	2.1	21.6	2.7	1.2	1.2

Table No. : 2 (Conti...)		Days to 75 % Dry husk								Days to 50% Anthesis							
S. No.	Entry Name	NHZ							All India	NHZ							All India
		BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE		BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH1608	109	100	96	97	123	97	104	104	68	51	57	58	73	58	61	61
2	AH3254	106	94	87	88	126	92	99	99	59	42	48	49	76	51	54	54
3	AH4045	108	99	95	93	121	99	102	102	63	48	53	54	75	56	58	58
4	AH8178	110	99	95	96	121	96	103	103	68	49	54	56	75	58	60	60
5	AH8323	107	98	93	96	120	96	102	102	64	49	55	57	72	57	59	59
6	AH8622	108	102	96	96	123	100	104	104	67	50	55	57	75	57	60	60
7	DH321	105	93	91	91	127	91	100	100	57	44	51	52	72	53	55	55
8	DH322	106	97	95	96	125	100	103	103	64	48	54	58	74	57	59	59
9	DKC7204	108	97	95	93	121	102	103	103	63	47	54	55	75	56	58	58
10	FH3900	109	101	95	92	124	94	102	102	63	47	55	53	74	54	58	58
11	FH3912	104	94	91	93	124	90	99	99	56	44	51	53	72	53	55	55
12	FH3917	106	95	95	92	122	97	101	101	59	45	53	53	72	53	56	56
13	H118	104	96	94	94	127	97	102	102	57	43	51	54	73	53	55	55
14	H119	103	97	91	91	126	90	99	99	52	45	52	51	73	53	54	54
15	H120	104	96	91	89	124	91	99	99	53	44	50	51	76	51	54	54
16	H121	104	93	87	90	121	90	98	98	56	42	50	51	73	52	54	54
17	HKH370	109	98	92	97	122	99	103	103	67	49	54	57	73	58	60	60
18	HKH371	110	97	96	94	124	98	103	103	68	49	57	56	72	57	60	60
19	KMH1813	104	97	91	90	126	93	100	100	55	44	53	51	75	53	55	55
20	KMH1815	107	93	89	88	121	90	98	98	59	45	49	50	73	53	55	55
21	LMH1945	102	94	88	87	124	90	97	97	50	41	47	48	73	51	52	52
22	LMH1946	109	95	94	94	121	99	102	102	63	47	52	56	74	56	58	58
23	LMH1947	102	95	83	87	124	94	98	98	52	42	47	48	73	50	52	52
24	LMH1948	103	97	84	90	125	90	98	98	53	43	47	51	72	52	53	53
25	PMH5 (C)	105	92	88	90	122	93	98	98	59	43	51	51	73	52	55	55
26	VIVEK HYB-45 (C)	104	93	93	91	123	93	100	100	60	45	49	53	73	53	56	56
27	BIO 605 (C)	107	99	93	94	121	96	102	102	64	49	54	55	72	56	58	58
28	DKC7074 (C)	106	101	96	94	121	97	103	103	63	47	55	56	74	57	59	59
	Location Mean	106.0	96.5	92.0	92.1	123.1	94.8	100.8	100.8	60.1	45.8	52.1	53.4	73.4	54.3	56.5	56.5
	CV (%)	1.4	2.5	2.6	1.8	3.1	2.1	2.4	2.4	3.7	3.7	3.2	2.8	2.8	1.4	3.0	3.0
	F (Prob)	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
	CD (5%)	2.5	4.0	4.0	2.8	6.2	3.2	1.6	1.6	3.6	2.8	2.7	2.4	3.4	1.3	1.2	1.2
	CD (1%)	3.3	5.4	5.3	3.7	8.3	4.3	2.2	2.2	4.9	3.7	3.7	3.3	4.6	1.7	1.5	1.5

Table No. : 2 (Conti...)		Days to 50% Silking								Plant Height (cm)							
S. No.	Entry Name	NHZ							All India	NHZ							All India
		BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE		BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH1608	72	57	59	61	76	60	64	64	149	220	258	237	212	270	223	223
2	AH3254	63	49	51	53	80	53	58	58	116	175	232	202	211	201	190	190
3	AH4045	67	52	55	58	78	58	61	61	146	185	237	208	204	262	208	208
4	AH8178	72	54	55	60	77	58	63	63	147	206	262	230	224	260	222	222
5	AH8323	67	54	56	60	75	58	62	62	173	187	248	243	208	276	222	222
6	AH8622	70	56	56	61	79	58	63	63	163	216	260	217	208	273	223	223
7	DH321	61	48	52	55	75	55	57	57	140	200	255	206	207	245	210	210
8	DH322	67	53	55	61	77	57	62	62	128	188	245	219	195	252	205	205
9	DKC7204	67	52	55	58	78	56	61	61	148	192	241	221	208	243	210	210
10	FH3900	66	53	56	57	78	55	61	61	134	198	251	201	195	229	201	201
11	FH3912	59	47	52	57	75	53	57	57	142	197	244	222	215	229	207	207
12	FH3917	62	50	55	57	75	54	59	59	161	198	271	216	213	254	219	219
13	H118	60	49	54	58	77	55	59	59	152	202	252	201	207	248	210	210
14	H119	58	50	55	55	76	54	58	58	139	179	230	190	214	231	197	197
15	H120	57	49	52	54	79	52	57	57	142	187	241	214	200	229	202	202
16	H121	60	48	53	54	77	52	57	57	111	184	230	215	201	227	195	195
17	HKH370	71	54	56	60	76	59	63	63	148	196	257	227	211	264	217	217
18	HKH371	72	54	58	59	76	58	63	63	154	205	257	245	206	275	224	224
19	KMH1813	58	49	54	54	78	54	58	58	155	192	257	210	210	243	212	212
20	KMH1815	63	48	51	53	76	53	57	57	124	186	235	212	202	249	202	202
21	LMH1945	53	45	48	51	76	51	54	54	128	191	237	217	228	219	203	203
22	LMH1946	67	51	54	59	78	58	61	61	143	209	250	212	216	250	213	213
23	LMH1947	56	45	48	51	77	49	54	54	125	195	232	206	225	209	199	199
24	LMH1948	56	46	48	55	75	52	55	55	114	193	244	202	214	222	198	198
25	PMH5 (C)	62	48	53	54	76	52	58	58	146	199	246	232	210	240	212	212
26	VIVEK HYB-45 (C)	63	49	51	56	77	54	59	59	103	175	231	204	198	211	186	186
27	BIO 605 (C)	69	53	55	58	75	57	61	61	156	209	251	225	219	259	220	220
28	DKC7074 (C)	66	52	55	59	78	58	62	62	138	191	251	218	210	236	208	208
	Location Mean	63.8	50.4	53.6	56.7	76.9	55.1	59.4	59.4	140.3	194.8	246.7	216.2	209.7	243.0	208.4	208.4
	CV (%)	3.8	4.2	3.4	2.8	2.9	1.5	3.2	3.2	7.9	7.1	6.3	4.7	7.2	4.2	6.2	6.2
	F (Prob)	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.7	0.0	0.0	0.0
	CD (5%)	4.0	3.4	3.0	2.6	3.6	1.3	1.3	1.3	18.3	22.9	25.6	16.6	24.8	16.6	8.7	8.7
	CD (1%)	5.3	4.6	4.0	3.4	4.8	1.8	1.7	1.7	24.4	30.6	34.2	22.1	33.1	22.1	11.5	11.5

Table No. : 2 (Conti...)		Initial Plant Stand								Shelling %							
S. No.	Entry Name	NHZ							All India	NHZ							All India
		BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE		BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH1608	17	35	22	34	39	22	28	28	73	73	72	77	78	82	76	76
2	AH3254	13	32	22	34	38	23	27	27	76	73	82	80	80	87	80	80
3	AH4045	12	42	28	33	37	22	29	29	74	74	78	78	80	82	78	78
4	AH8178	23	29	21	34	39	23	28	28	76	74	62	78	80	81	75	75
5	AH8323	22	29	21	32	39	22	27	27	77	75	84	79	80	87	81	81
6	AH8622	29	22	27	35	39	22	29	29	76	76	74	77	80	83	78	78
7	DH321	25	40	27	34	37	23	31	31	76	73	73	79	80	85	78	78
8	DH322	20	38	21	34	39	21	29	29	80	76	79	78	79	85	79	79
9	DKC7204	26	43	21	35	38	23	31	31	76	70	80	80	79	86	79	79
10	FH3900	9	40	27	35	39	23	29	29	79	75	76	79	79	83	79	79
11	FH3912	33	41	26	36	39	24	33	33	80	81	78	78	80	84	80	80
12	FH3917	27	36	20	39	39	24	31	31	80	75	79	76	80	82	78	78
13	H118	14	32	23	34	39	23	28	28	74	76	78	76	80	85	78	78
14	H119	22	34	22	35	39	22	29	29	68	70	78	79	80	87	77	77
15	H120	17	26	19	33	38	23	26	26	74	77	76	79	80	85	78	78
16	H121	21	35	22	35	37	23	29	29	70	76	84	77	79	86	78	78
17	HKH370	23	32	20	34	39	22	28	28	71	73	77	78	80	82	77	77
18	HKH371	18	38	20	33	38	22	28	28	76	75	75	77	79	83	77	77
19	KMH1813	23	37	25	37	39	23	30	30	77	74	79	81	82	87	80	80
20	KMH1815	23	44	28	36	38	25	32	32	76	75	70	80	79	86	78	78
21	LMH1945	35	43	25	33	39	23	33	33	76	75	83	80	79	87	80	80
22	LMH1946	16	31	20	37	38	23	28	28	76	74	80	80	79	86	79	79
23	LMH1947	31	35	25	35	38	22	31	31	79	73	85	78	79	87	80	80
24	LMH1948	18	21	21	35	38	21	26	26	77	74	79	80	80	85	79	79
25	PMH5 (C)	21	31	25	37	38	21	29	29	66	77	69	79	79	86	76	76
26	VIVEK HYB-45 (C)	16	38	22	34	39	22	28	28	76	77	80	79	80	83	79	79
27	BIO 605 (C)	31	40	23	37	39	24	32	32	75	72	79	78	80	86	79	79
28	DKC7074 (C)	32	45	27	36	38	23	33	33	78	73	80	77	80	83	78	78
	Location Mean	22.0	35.2	23.1	34.8	38.4	22.7	29.4	29.4	75.4	74.4	77.5	78.5	79.7	84.7	78.4	78.4
	CV (%)	29.0	16.0	20.3	7.2	3.2	4.9	14.1	14.1	4.5	3.4	10.0	1.3	1.2	1.1	4.6	4.6
	F (Prob)	0.0	0.0	0.5	0.4	0.9	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.3	0.0	0.0	0.0
	CD (5%)	10.5	9.3	7.7	4.1	2.0	1.8	2.9	2.9	5.6	4.1	12.7	1.6	1.6	1.5	2.4	2.4
	CD (1%)	14.0	12.4	10.3	5.5	2.7	2.4	3.8	3.8	7.5	5.5	17.0	2.2	2.2	2.0	3.1	3.1

Table No. : 2 (Conti...)		Gain in yield (%) over BIO 605																Gain in yield (%) over DKC 7074					
S. No.	Entry Name	NHZ														All India		NHZ					
		BARA		GOSS		IMPH		KANG		SRIN		VPKA		ZONE				BARA		GOSS		IMPH	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH1608	-53.56	18	11.37	17	-24.6	16	-21.34	16	0.99	12	-16.62	10	-12.38	14	-12.38	14	-44.84	18	-49.11	17	-43.06	16
2	AH3254	-87.06	28	-40.03	26	-45.66	23	-24.72	18	-14.8	27	-48.5	27	-30.49	28	-30.49	28	-84.63	28	-72.6	26	-58.97	23
3	AH4045	-66.42	25	43.6	6	11.39	5	-29.16	21	-2.26	18	-18.9	13	-17.68	21	-17.68	21	-60.12	25	-34.38	6	-15.89	5
4	AH8178	-31.92	9	40.66	7	-8.53	10	-15.05	13	-4.66	20	0.54	1	-5.82	7	-5.82	7	-19.14	9	-35.72	7	-30.93	10
5	AH8323	-7.41	2	6.51	19	-19.28	15	-29.39	23	-1.66	16	0.43	2	-7.01	11	-7.01	11	9.96	2	-51.33	19	-39.05	15
6	AH8622	-14.7	5	-3.14	21	13.19	4	-3.86	8	-26	28	-10.35	7	-13.89	15	-13.89	15	1.3	5	-55.74	21	-14.53	4
7	DH321	-42.01	14	15.65	16	-12.98	13	-24.19	17	-3.85	19	-28.75	22	-18.75	22	-18.75	22	-31.13	14	-47.15	16	-34.29	13
8	DH322	-40.05	13	26.83	12	13.48	3	-31.56	25	-1.21	15	-24.07	17	-17.37	18	-17.37	18	-28.81	13	-42.05	12	-14.31	3
9	DKC7204	-26.54	8	101.87	2	15.98	2	-10.24	10	10.98	4	-5.67	5	-1.99	5	-1.99	5	-12.76	8	-7.75	2	-12.42	2
10	FH3900	-56.62	20	28.3	11	-8.7	11	-17.51	14	-7.3	23	-13.85	8	-11.1	13	-11.1	13	-48.48	20	-41.37	11	-31.06	11
11	FH3912	-9.04	3	74.83	4	10.31	7	5.8	3	-6.74	21	-2.8	4	0.59	3	0.59	3	8.02	3	-20.11	4	-16.71	7
12	FH3917	-13.56	4	10.49	18	6.07	8	-2.25	7	6.19	6	-18.86	12	-6.53	10	-6.53	10	2.66	4	-49.51	18	-19.91	8
13	H118	-66	23	-27.29	24	-42.56	21	-38.31	26	12.27	3	-34.5	24	-22.42	24	-22.42	24	-59.62	23	-66.78	24	-56.63	21
14	H119	-86.22	27	-62.83	28	-74.12	28	-46.17	28	2.36	8	-36.33	26	-27.16	26	-27.16	26	-83.64	27	-83.01	28	-80.46	28
15	H120	-47.86	16	-50.64	27	-57.74	27	-45.22	27	-2.12	17	-35.36	25	-25.47	25	-25.47	25	-38.08	16	-77.44	27	-68.09	27
16	H121	-66.35	24	-26.16	23	-46.88	24	-24.99	19	1.25	11	-50.67	28	-27.52	27	-27.52	27	-60.04	24	-66.26	23	-59.89	24
17	HKH370	-38.32	12	43.9	5	-54.36	26	-29.22	22	-9.39	25	-14.57	9	-15.18	16	-15.18	16	-26.75	12	-34.24	5	-65.54	26
18	HKH371	-43.93	15	89.98	3	-16.24	14	-30.41	24	-7.15	22	-24.52	18	-20.37	23	-20.37	23	-33.41	15	-13.19	3	-36.75	14
19	KMH1813	-37.98	11	31.34	9	-45.17	22	54.31	2	3.95	7	-21.3	15	10.91	2	10.91	2	-26.35	11	-39.98	9	-58.6	22
20	KMH1815	-67.23	26	40.07	8	-37.84	20	63.47	1	14.52	2	-19.04	14	16.49	1	16.49	1	-61.08	26	-35.99	8	-53.06	20
21	LMH1945	-21.66	7	30.8	10	-9.85	12	-14.85	12	-14.45	26	-26.61	21	-17.54	20	-17.54	20	-6.96	7	-40.23	10	-31.93	12
22	LMH1946	-56.49	19	18.23	14	10.69	6	-5.05	9	-8.96	24	-7.07	6	-6.45	9	-6.45	9	-48.32	19	-45.98	14	-16.42	6
23	LMH1947	-32	10	-31	25	-36.14	18	-12.87	11	0.78	13	-32.97	23	-17.54	19	-17.54	19	-19.25	10	-68.47	25	-51.78	18
24	LMH1948	-50.19	17	-24.81	22	-35.72	17	-28.74	20	1.3	10	-21.37	16	-17.31	17	-17.31	17	-40.85	17	-65.64	22	-51.46	17
25	PMH5 (C)	-59.05	21	19.94	13	-49.14	25	-0.44	6	6.98	5	-24.98	19	-6.22	8	-6.22	8	-51.37	21	-45.19	13	-61.6	25
26	VIVEK HYB-45 (C)	-61.79	22	17.15	15	-36.65	19	-19.41	15	22.15	1	-25.32	20	-10.45	12	-10.45	12	-54.62	22	-46.47	15	-52.17	19
27	BIO 605 (C)	0	1	0	20	0	9	0	5	0	14	0	3	0	4	0	4	18.76	1	-54.3	20	-24.49	9
28	DKC7074 (C)	-15.8	6	118.84	1	32.44	1	4.86	4	2.03	9	-17.05	11	-5.04	6	-5.04	6	0	6	0	1	0	1

Table No. : 2 (Conti...)

S. No.	Entry Name	Gain in yield (%) over DKC 7074										Gain in yield (%) over PMH 5													
		NHZ								All India		NHZ												All India	
		KANG		SRIN		VPKA		ZONE				BARA		GOSS		IMPH		KANG		SRIN		VPKA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH1608	-24.98	16	-1.02	12	0.52	10	-7.73	14	-7.73	14	13.43	18	-7.14	17	48.26	16	-21	16	-5.6	12	11.14	10	-6.58	14	-6.58	14
2	AH3254	-28.21	18	-16.5	27	-37.91	27	-26.8	28	-26.8	28	-68.39	28	-50	26	6.85	23	-24.4	18	-20.4	27	-31.4	27	-25.9	28	-25.9	28
3	AH4045	-32.44	21	-4.2	18	-2.23	13	-13.31	21	-13.31	21	-17.98	25	19.73	6	119.01	5	-28.8	21	-8.64	18	8.1	13	-12.2	21	-12.2	21
4	AH8178	-18.98	13	-6.56	20	21.2	1	-0.82	7	-0.82	7	66.27	9	17.28	7	79.86	10	-14.7	13	-10.9	20	34.01	1	0.42	7	0.42	7
5	AH8323	-32.66	23	-3.61	16	21.07	2	-2.07	11	-2.07	11	126.12	2	-11.19	19	58.72	15	-29.1	23	-8.08	16	33.87	2	-0.84	11	-0.84	11
6	AH8622	-8.31	8	-27.47	28	8.07	7	-9.32	15	-9.32	15	108.32	5	-19.24	21	122.56	4	-3.43	8	-30.8	28	19.49	7	-8.18	15	-8.18	15
7	DH321	-27.71	17	-5.76	19	-14.11	22	-14.43	22	-14.43	22	41.63	14	-3.58	16	71.1	13	-23.9	17	-10.1	19	-5.04	22	-13.4	22	-13.4	22
8	DH322	-34.73	25	-3.18	15	-8.46	17	-12.99	18	-12.99	18	46.4	13	5.74	12	123.13	3	-31.3	25	-7.66	15	1.21	17	-11.9	18	-11.9	18
9	DKC7204	-14.4	10	8.77	4	13.71	5	3.21	5	3.21	5	79.41	8	68.31	2	128.05	2	-9.85	10	3.73	4	25.73	5	4.5	5	4.5	5
10	FH3900	-21.33	14	-9.14	23	3.86	8	-6.38	13	-6.38	13	5.96	20	6.97	11	79.51	11	-17.1	14	-13.4	23	14.83	8	-5.2	13	-5.2	13
11	FH3912	0.9	3	-8.59	21	17.18	4	5.93	3	5.93	3	122.13	3	45.77	4	116.89	7	6.27	3	-12.8	21	29.56	4	7.26	3	7.26	3
12	FH3917	-6.78	7	4.08	6	-2.18	12	-1.57	10	-1.57	10	111.12	4	-7.87	18	108.56	8	-1.81	7	-0.74	6	8.15	12	-0.33	10	-0.33	10
13	H118	-41.17	26	10.03	3	-21.04	24	-18.3	24	-18.3	24	-16.97	23	-39.38	24	12.94	21	-38	26	4.94	3	-12.7	24	-17.3	24	-17.3	24
14	H119	-48.66	28	0.32	8	-23.25	26	-23.3	26	-23.3	26	-66.35	27	-69.01	28	-49.12	28	-45.9	28	-4.32	8	-15.1	26	-22.3	26	-22.3	26
15	H120	-47.76	27	-4.07	17	-22.08	25	-21.51	25	-21.51	25	27.34	16	-58.84	27	-16.92	27	-45	27	-8.51	17	-13.8	25	-20.5	25	-20.5	25
16	H121	-28.47	19	-0.77	11	-40.53	28	-23.67	27	-23.67	27	-17.82	24	-38.43	23	4.45	24	-24.7	19	-5.36	11	-34.3	28	-22.7	27	-22.7	27
17	HKH370	-32.5	22	-11.19	25	2.99	9	-10.68	16	-10.68	16	50.63	12	19.98	5	-10.26	26	-28.9	22	-15.3	25	13.88	9	-9.56	16	-9.56	16
18	HKH371	-33.64	24	-9	22	-9.01	18	-16.14	23	-16.14	23	36.94	15	58.4	3	64.69	14	-30.1	24	-13.2	22	0.61	18	-15.1	23	-15.1	23
19	KMH1813	47.16	2	1.88	7	-5.12	15	16.79	2	16.79	2	51.46	11	9.51	9	7.8	22	54.99	2	-2.83	7	4.91	15	18.26	2	18.26	2
20	KMH1815	55.9	1	12.24	2	-2.4	14	22.67	1	22.67	1	-19.97	26	16.79	8	22.22	20	64.2	1	7.04	2	7.91	14	24.21	1	24.21	1
21	LMH1945	-18.8	12	-16.15	26	-11.53	21	-13.17	20	-13.17	20	91.32	7	9.06	10	77.25	12	-14.5	12	-20	26	-2.18	21	-12.1	20	-12.1	20
22	LMH1946	-9.45	9	-10.77	24	12.03	6	-1.48	9	-1.48	9	6.27	19	-1.43	14	117.63	6	-4.63	9	-14.9	24	23.87	6	-0.25	9	-0.25	9
23	LMH1947	-16.91	11	-1.23	13	-19.19	23	-13.16	19	-13.16	19	66.06	10	-42.47	25	25.56	18	-12.5	11	-5.8	13	-10.7	23	-12.1	19	-12.1	19
24	LMH1948	-32.04	20	-0.71	10	-5.21	16	-12.92	17	-12.92	17	21.64	17	-37.31	22	26.39	17	-28.4	20	-5.31	10	4.81	16	-11.8	17	-11.8	17
25	PMH5 (C)	-5.05	6	4.85	5	-9.56	19	-1.24	8	-1.24	8	0	21	0	13	0	25	0	6	0	5	0	19	0	8	0	8
26	VIVEK HYB-45 (C)	-23.14	15	19.72	1	-9.97	20	-5.7	12	-5.7	12	-6.67	22	-2.33	15	24.55	19	-19.1	15	14.18	1	-0.46	20	-4.51	12	-4.51	12
27	BIO 605 (C)	-4.63	5	-1.99	14	20.55	3	5.31	4	5.31	4	144.22	1	-16.62	20	96.62	9	0.44	5	-6.53	14	33.29	3	6.63	4	6.63	4
28	DKC7074 (C)	0	4	0	9	0	11	0	6	0	6	105.64	6	82.46	1	160.4	1	5.32	4	-4.63	9	10.57	11	1.25	6	1.25	6

Table No. : 2 (Conti...)

Gain in yield (%) over VIVEK HYB 45

S. No.	Entry Name	NHZ														All India	
		BARA		GOSS		IMPH		KANG		SRIN		VPKA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH1608	21.54	18	-4.93	17	19.03	16	-2.39	16	-17.3	12	11.65	10	-2.16	14	-2.16	14
2	AH3254	-66.13	28	-48.8	26	-14.22	23	-6.59	18	-30.3	27	-31	27	-22.4	28	-22.4	28
3	AH4045	-12.12	25	22.58	6	75.84	5	-12.09	21	-20	18	8.6	13	-8.08	21	-8.08	21
4	AH8178	78.17	9	20.07	7	44.4	10	5.41	13	-22	20	34.62	1	5.17	7	5.17	7
5	AH8323	142.3	2	-9.08	19	27.43	15	-12.38	23	-19.5	16	34.48	2	3.84	11	3.84	11
6	AH8622	123.2	5	-17.3	21	78.69	4	19.29	8	-39.4	28	20.04	7	-3.84	15	-3.84	15
7	DH321	51.75	14	-1.28	16	37.37	13	-5.94	17	-21.3	19	-4.6	22	-9.27	22	-9.27	22
8	DH322	56.87	13	8.26	12	79.14	3	-15.08	25	-19.1	15	1.67	17	-7.73	18	-7.73	18
9	DKC7204	92.24	8	72.32	2	83.09	2	11.37	10	-9.15	4	26.3	5	9.44	5	9.44	5
10	FH3900	13.53	20	9.52	11	44.12	11	2.36	14	-24.1	23	15.36	8	-0.72	13	-0.72	13
11	FH3912	138	3	49.24	4	74.13	7	31.28	3	-23.7	21	30.15	4	12.33	3	12.33	3
12	FH3917	126.2	4	-5.68	18	67.44	8	21.29	7	-13.1	6	8.65	12	4.38	10	4.38	10
13	H118	-11.03	23	-37.9	24	-9.32	21	-23.45	26	-8.09	3	-12.3	24	-13.4	24	-13.4	24
14	H119	-63.95	27	-68.3	28	-59.15	28	-33.2	28	-16.2	8	-14.8	26	-18.7	26	-18.7	26
15	H120	36.44	16	-57.9	27	-33.3	27	-32.03	27	-19.9	17	-13.5	25	-16.8	25	-16.8	25
16	H121	-11.94	24	-37	23	-16.14	24	-6.93	19	-17.1	11	-34	28	-19.1	27	-19.1	27
17	HKH370	61.4	12	22.84	5	-27.95	26	-12.17	22	-25.8	25	14.4	9	-5.29	16	-5.29	16
18	HKH371	46.73	15	62.17	3	32.22	14	-13.65	24	-24	22	1.07	18	-11.1	23	-11.1	23
19	KMH1813	62.29	11	12.12	9	-13.45	22	91.47	2	-14.9	7	5.39	15	23.85	2	23.85	2
20	KMH1815	-14.24	26	19.57	8	-1.87	20	102.8	1	-6.25	2	8.41	14	30.08	1	30.08	1
21	LMH1945	105	7	11.66	10	42.3	12	5.65	12	-30	26	-1.73	21	-7.92	20	-7.92	20
22	LMH1946	13.87	19	0.92	14	74.73	6	17.82	9	-25.5	24	24.43	6	4.47	9	4.47	9
23	LMH1947	77.94	10	-41.1	25	0.81	18	8.11	11	-17.5	13	-10.3	23	-7.92	19	-7.92	19
24	LMH1948	30.33	17	-35.8	22	1.48	17	-11.58	20	-17.1	10	5.28	16	-7.66	17	-7.66	17
25	PMH5 (C)	7.15	21	2.38	13	-19.71	25	23.54	6	-12.4	5	0.46	19	4.73	8	4.73	8
26	VIVEK HYB-45 (C)	0	22	0	15	0	19	0	15	0	1	0	20	0	12	0	12
27	BIO 605 (C)	161.7	1	-14.6	20	57.86	9	24.08	5	-18.1	14	33.9	3	11.67	4	11.67	4
28	DKC7074 (C)	120.4	6	86.81	1	109.1	1	30.11	4	-16.5	9	11.07	11	6.04	6	6.04	6

Table No. : 3 **Trial No. 675 (NIVT, Medium Maturity)** **Yielg Kg/ha**

S. No.	Entry Name	CWZ												NEPZ					
		AMBI		BANS		CHIND		GODH		UDAI		ZONE		BHU		BAHA		BHUB	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	AH 8245 R	9250.88	9	2108.06	37	8191.69	23	5423.66	28	3564.51	22	8714.92	19	5673.59	36	5417.55	32	6361.96	16
2	AH 8452	9527.74	7	3663.46	14	8385.02	21	5619.97	24	4402.82	9	8756.47	18	7003.68	23	4950.39	36	5866.96	24
3	AH1625	9609.89	6	4818.59	5	10586.68	6	6791.59	11	5146.9	6	10013.72	5	8874.04	5	6392.32	20	7379.71	1
4	AH1634	8095.31	23	4633.08	7	9677	13	3998.63	41	4052.15	16	8857.38	17	7432.64	20	7021.95	14	6646.73	9
5	AH4142	9123.68	10	3478.88	19	9904.67	12	5951.53	22	2274.42	40	9896.12	7	8141.02	11	5656.52	30	4617.61	39
6	AH4167	7854.94	25	3088.92	26	6406.9	34	4527.9	33	2801.23	33	7111.47	31	7603.39	19	5715.44	28	4489.96	40
7	BAU-MH-18-2	5901.04	36	1713.12	39	5281.94	38	4809.72	32	2174.28	41	5274.78	38	5282.6	41	4749.34	38	5632.37	30
8	BAU-MH-18-3	6729.45	30	2417.38	32	6263.87	35	4237.05	38	3364.64	25	6637.41	33	5847.13	35	5250.07	33	5203.91	37
9	BH 417152	8379.15	20	4184.53	12	8671.94	19	4183.3	39	4654.51	7	8282.86	21	8024.76	13	7716.47	7	5714.17	29
10	BH 417182	8980.81	13	5795.59	1	8894.07	18	5306.23	30	4156.68	14	9120.28	14	9604.89	2	9221.78	2	6771.29	6
11	BH 417193	8240.54	21	5051.81	3	9422.57	15	6771.89	12	5620.46	2	9087.12	15	10307.64	1	9641.2	1	7152.29	2
12	CMH-12-686	10118.23	5	4761.24	6	11137.17	3	5416.69	29	5264.91	5	10756.84	3	8519.05	7	7749.5	6	6487.77	12
13	CMH-15-012	6673.64	31	4213.05	10	5937.01	36	4060.39	40	2547.78	35	6219.02	36	6203.22	30	6247.28	22	2809.01	42
14	DH 327	6090.32	35	3305.11	23	8518.22	20	7266.48	6	3343.05	26	7189.94	29	6945.79	24	5030.24	34	5880.95	23
15	DH 328	8745.96	15	3490.82	18	7344.29	29	6906.61	10	3046.01	30	8070.51	23	6431.16	28	6453.93	18	6294.17	17
16	EH 3638	8395.22	19	3047.12	27	10408.91	8	9631.56	1	4280.36	12	9593.35	8	7871.14	15	7640.47	8	5789.48	25
17	HMM 1014	4122.99	42	2149.02	35	6785.06	31	6563.91	14	2295.32	39	5667.95	37	5594.71	37	5855.69	26	5437.29	35
18	HMM 1019	4501.95	40	2432.11	31	5705.93	37	7720.58	3	1896.15	42	5072.98	40	5978.95	32	5475.61	31	5615.08	32
19	IMHL-K-19-1	8110.04	22	1675.19	40	8383.75	22	5134.69	31	2962.05	31	8195.19	22	7059.43	22	5855.26	27	6197.82	19
20	IWH 1407	5080.64	39	1877.97	38	2996.3	42	4391.69	36	2389.17	38	3699.16	42	5407.83	39	4571.45	39	4487.03	41
21	IYH 1603	4210.76	41	1575.34	42	3144.09	41	5495.85	26	3132.99	27	4040.96	41	5372.25	40	4570.96	40	4772.92	38
22	JH 18064	9087.51	11	5227.45	2	12547.72	2	4274.3	37	5320.39	4	10838.71	2	8486.35	9	7116.16	12	6848.53	3
23	JH 18065	10143.49	4	4619.84	8	13355.29	1	6974.81	9	4320.39	11	11878.32	1	9415.42	4	7177.63	11	6237.42	18
24	JH 18099	8510.7	18	2678.67	30	10756.3	5	6456.12	18	3807.26	17	9507.27	11	8319.26	10	6355.09	21	5972.81	22
25	JH 32104	10368.5	2	4033.23	13	10535.87	7	5848.95	23	4509.42	8	10245.42	4	8496.33	8	7291.51	10	6729.05	7
26	KMH 18-42	8604.91	16	2122.36	36	4033.11	40	6075.35	21	2635.62	34	6374.19	35	5505.27	38	4082.05	42	5248.83	36
27	KMH 18-71	5271.65	38	1621.38	41	4855.02	39	7200.46	7	2450	36	5190.07	39	5927.12	33	4503.31	41	5562.94	34
28	KNMH 4191	6980.33	28	3421.32	20	9220.44	16	6482.79	17	4108.99	15	7892.05	24	7808.07	16	6724.42	16	6395.46	15
29	KNMH 4192	9255.21	8	2983.46	28	10229.57	9	3915.26	42	4342.07	10	9351.8	12	7697.39	17	6523.77	17	6782.62	5
30	KNMH 4194	5839.95	37	3134.17	25	6513.76	32	6105.24	20	3085.15	29	6541.67	34	6185.69	31	4923.76	37	5770.27	28
31	LMH 4119	8578.32	17	2847.5	29	6498.95	33	4442.76	34	3132.86	28	7435.27	26	6335.62	29	7103.28	13	6466.98	13
32	LMH 4219	6974.71	29	3590.75	16	7453.24	28	6401.97	19	4246.26	13	6950.52	32	8113.83	12	6075.85	24	5624.14	31
33	LMH 4319	6512	34	2183.93	34	7865.9	27	4406.8	35	3696.89	20	7169.73	30	4823.97	42	5009.43	35	5778.72	27
34	LMH 4419	9057.52	12	3184.26	24	9612.75	14	6555.5	15	3649.11	21	9539.25	10	6682.72	25	6415.35	19	6834.3	4
35	OMH17-19	10227.56	3	3609.52	15	10039.18	11	7335.99	5	5462.11	3	9944.78	6	9497.41	3	7836.62	4	6407.89	14
36	OMH17-24	10605.29	1	2222	33	7988.23	25	7501.77	4	2428.23	37	9236.18	13	7635.21	18	5704.39	29	5995.58	21
37	RCRMH 13	7890.45	24	3545.25	17	7294.89	30	6544.04	16	3475.37	23	7760.69	25	6616.59	27	6767.86	15	6155.34	20
38	RCRMH 14	7074.79	27	4193.29	11	7873.64	26	5500.56	25	3750.84	18	7370.92	27	6665.05	26	6208.5	23	5788.36	26
39	VaMH 16008	6596.61	33	5008.23	4	10211.23	10	7053.8	8	3377.42	24	8414.48	20	7377.18	21	7500.92	9	5593.69	33
40	BIO 9544 (C)	7790.89	26	3387.91	21	11132.2	4	6605.66	13	6224.74	1	9591.48	9	7892.95	14	8402.04	3	6592.03	10
41	CMH 08-292 (C)	8775.43	14	4419.19	9	8899.62	17	7832.65	2	3722.22	19	9029.46	16	8530.47	6	7776.42	5	6662.07	8
42	DHM 121 (C)	6649.94	32	3349.35	22	8064.73	24	5429.24	27	2885.31	32	7263.14	28	5847.66	34	6022.74	25	6581.1	11
	L Mean	7822.35	.	3353.89	.	8262.59	.	5932.24	.	3666.69	.	8042.47	.	7215.2	.	6350.11	.	5943.73	.
	CV (%)	15.02	.	21	.	14.97	.	30.37	.	21.17	.	15.02	.	12.29	.	15.76	.	16.71	.
	F (Prob)	0	.	0	.	0	.	0.23	.	0	.	0	.	0	.	0	.	0.01	.
	CD (5%)	1914.9	.	1147.84	.	2015.5	.	2936.53	.	1265.04	.	1386.69	.	1445.38	.	1630.54	.	1618.93	.
	CD (1%)	2543.49	.	1524.63	.	2677.12	.	3900.48	.	1680.31	.	1832.04	.	1919.84	.	2165.78	.	2150.36	.

Table No. : 3 (Conti...) **Yielg Kg/ha**

S. No.	Entry Name	NEPZ								NWPZ									
		DHOL		RANC		SABO		ZONE		IARI		KARN		LUDH		PANT		ZONE	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	AH 8245 R	6491.09	22	6893.2	18	3838.75	34	6189.12	30	10458.88	8	7714.06	35	6950.48	20	9120.98	32	8574.86	31
2	AH 8452	8413.98	7	7869.89	5	5312.95	22	6610.48	22	7738.39	27	9460.44	2	7110.98	17	12420.3	4	10603.8	3
3	AH1625	7463.95	10	8123.57	2	6163.7	11	7457.23	9	8904.07	18	8212.6	21	7864.61	11	12054.8	7	10295.7	6
4	AH1634	6333.32	26	6927.17	17	5280.49	23	6843.33	15	10752.1	6	9130.41	5	7867.6	10	11271	14	10007.9	12
5	AH4142	5833.5	31	6999.71	15	3965.73	33	6353	26	8229.84	22	8959.39	8	8164.96	6	11104	16	10257.8	7
6	AH4167	5238.1	35	6284.46	29	5511.26	17	5969.13	31	6568.5	36	8389.93	14	7333.45	16	9408.88	30	8656.3	30
7	BAU-MH-18-2	4734.64	39	5422.64	38	6354.24	7	5154.55	40	4050.53	42	8007.66	26	5218.42	38	6135.76	41	7311.93	40
8	BAU-MH-18-3	5882.58	28	6287.65	28	2497.44	40	5618.24	35	6875.69	32	8148.93	24	5364.87	36	9992.42	28	8802.44	29
9	BH 417152	7145.33	17	6822.58	20	4825.8	29	7195.54	11	10624.62	7	7220.3	41	7741.67	13	10921.5	18	9254.66	24
10	BH 417182	8477.37	6	7373.63	7	6167.89	10	8288.89	1	11064.89	3	8364.05	15	8842.95	3	11790.6	10	10043.6	11
11	BH 417193	5882.13	29	7592.82	6	6695.48	4	8258.6	2	9806.01	13	7910.25	30	5834.47	33	11115.3	15	9533.79	20
12	CMH-12-686	9865.77	1	7294.38	8	7562.28	1	8018.6	4	5854.01	37	9409.54	3	6185.5	29	10855.7	20	9972.09	14
13	CMH-15-012	4432.64	41	6485.58	26	3378.3	36	5243.13	37	7104.88	30	7578.24	36	4453.94	39	7427.96	37	7779.87	36
14	DH 327	6861.53	19	6411.81	27	5318.44	21	6319.27	29	9557.25	16	7768.62	33	6195.58	28	9123.64	31	8549.22	33
15	DH 328	6078.22	27	6601.15	24	4811.39	30	6331.26	27	8425.68	21	7977.24	29	5675.3	34	10144.2	26	8942.93	27
16	EH 3638	7151.8	16	6680.3	22	4101	32	7122.4	12	8052.79	24	6894.62	42	8654.13	4	10916.4	19	8814.54	28
17	HMM 1014	5040.58	36	6595.87	25	2021.65	42	5679.42	34	6811.35	33	7439.57	39	3506.47	41	7256.51	38	7556.63	39
18	HMM 1019	5730.51	33	5392.69	39	2458.36	41	5689.47	32	4649.5	41	8349.35	17	3176.21	42	8603.46	33	8573.67	32
19	IMHL-K-19-1	6462.66	24	6143.64	32	4791.54	31	6364.89	25	10411.03	9	8294.44	18	5934.2	32	12372	5	10470.1	4
20	IWH 1407	4664.97	40	5085.6	42	2727.47	39	4858.01	41	8782.43	19	7896.41	31	3609.1	40	5557.96	42	6863.4	42
21	IYH 1603	6489.49	23	5103.56	41	3607.6	35	5333.66	36	5552.94	38	8163.46	23	5304.07	37	8600.75	34	8457.38	34
22	JH 18064	9602.52	3	7199.2	11	5984.69	13	7968.34	5	9044.5	17	7987.02	28	7479.06	15	13204.3	1	10750.2	1
23	JH 18065	9641.64	2	7212.37	10	6587.59	5	7839.76	6	10124.36	12	9313.03	4	9191.15	1	12879.7	2	10708.1	2
24	JH 18099	7614.19	9	7147.35	13	5428.7	18	6956.99	14	13560.26	1	8912.06	9	5973.85	31	10803.1	22	9861.69	16
25	JH 32104	7399.44	11	6279.62	30	5938.75	14	7317.79	10	7743.37	26	8452.26	13	6570.05	23	11899.7	9	10099.8	10
26	KMH 18-42	3520.69	42	5450.29	37	3154.31	38	4857.64	42	4905.01	39	8291.3	19	5478.13	35	6914.2	40	7753.57	37
27	KMH 18-71	5005.51	37	5179.88	40	6445.03	6	5157.9	39	4722.13	40	7566.17	37	6520.87	24	7996.71	36	7646.61	38
28	KNMH 4191	5848.05	30	6933.88	16	6031.86	12	6713.13	18	7931.24	25	9912.85	1	7843.06	12	10946.2	17	10209.6	8
29	KNMH 4192	7195.04	15	7257.94	9	6182.61	9	7070.92	13	10196.56	11	8005.54	27	9042.54	2	10040.2	27	9168.54	25
30	KNMH 4194	6343.33	25	5639.46	35	3289.36	37	5683.14	33	6754.22	34	8527	12	6049.07	30	9938.23	29	9281.57	23
31	LMH 4119	7351.89	14	6865.9	19	5372.25	20	6721.4	17	10976.33	4	8193.21	22	6467.69	25	8264.87	35	8309.34	35
32	LMH 4219	6923.21	18	5829.28	34	4972.38	28	6698.49	19	9597.41	14	7390.58	40	6465.18	26	11614.5	11	9362.63	22
33	LMH 4319	4891.39	38	5592.95	36	5247.67	25	5159.17	38	7175.01	29	7480.75	38	6204.5	27	7038.06	39	7149.25	41
34	LMH 4419	7364.78	12	6258.63	31	5848.16	16	6671.03	20	11216.62	2	7760.13	34	7579.19	14	11903.6	8	9985.65	13
35	OMH17-19	8844.19	4	7948.64	4	7307.94	2	8160.74	3	10342.14	10	8363.33	16	7092	18	12482.8	3	10402.2	5
36	OMH17-24	7359.1	13	7174.36	12	5010.37	27	6732.26	16	7576.85	28	9024.45	7	8429.12	5	10462.9	24	9812.38	19
37	RCRMH 13	6735.61	20	6637.79	23	5262.46	24	6557.7	24	7013.08	31	8614.18	11	6777.04	21	10850.3	21	9824.46	18
38	RCRMH 14	7753.8	8	7079.06	14	6206.99	8	6584.7	23	8123.15	23	8225.64	20	6672.8	22	11413.4	13	9530.54	21
39	VaMH 16008	5611.89	34	5847.64	33	5852.52	15	6321.76	28	6677.94	35	9118.16	6	8034.3	8	10546	23	9840.22	17
40	BIO 9544 (C)	6550.34	21	7970.21	3	5387.38	19	7538.17	8	10805.8	5	8782.83	10	8001.45	9	11591.7	12	10159.3	9
41	CMH 08-292 (C)	8508.6	5	6698.88	21	7203.27	3	7561.52	7	9580.56	15	7770.08	32	6980.95	19	12115.1	6	9962.56	15
42	DHM 121 (C)	5763.43	32	8723.12	1	5176.88	26	6669.38	21	8508.57	20	8146.05	25	8159.91	7	10256.1	25	9100.09	26
	L Mean	6678.64	.	6650.44	.	5125.78	.	6561.71	.	8401.2	.	8264.91	.	6714.31	.	10222.8	.	9243.83	.
	CV (%)	16.11	.	10.15	.	22.27	.	14.66	.	23.22	.	10.99	.	26.13	.	12.7	.	11.71	.
	F (Prob)	0	.	0	.	0	.	0	.	0	.	0.18	.	0.01	.	0	.	0	.
	CD (5%)	1753.64	.	1124.25	.	1860.1	.	757.67	.	3179.59	.	1480.36	.	2858.84	.	2115.71	.	1236.58	.
	CD (1%)	2329.3	.	1512.62	.	2470.7	.	998.09	.	4223.32	.	1966.3	.	3797.28	.	2810.22	.	1633.71	.

Table No. : 3 (Conti...) **Yielg Kg/ha**

S. No.	Entry Name	PZ																		All India	
		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	AH 8245 R	9874.57	3	5139.6	34	10324.4	16	8346.1	18	5837.5	19	9568.83	10	6051.4	25	11417.4	13	9936.27	8	8225.1	21
2	AH 8452	9298.54	9	6360.8	28	12776.6	1	7758.8	33	6241.9	9	9330.32	13	6857.3	9	12222	4	10178.2	3	8771.3	11
3	AH1625	9673.39	5	6702.5	24	10126.2	17	8814.6	8	5836.2	20	8650.86	23	6371.6	19	10669.4	19	9561.52	14	8966.7	8
4	AH1634	8916.82	19	8611.4	3	8979.07	31	8781.3	11	6058.6	14	8183.54	26	7379.7	3	13081	2	9446.89	16	8509	17
5	AH4142	8312.08	26	7272.3	14	10097.2	18	7759.4	32	5085.8	32	10116.9	6	4290.2	38	11745.2	8	9737.24	12	8613.7	14
6	AH4167	8563.25	22	6941.4	21	11110.1	6	7944.3	28	4387.6	38	6663.28	36	6760.3	12	8784.18	37	8723.76	29	7528.3	30
7	BAU-MH-18-2	7510.95	35	3560.3	40	8467.84	38	7903.6	29	3542.1	42	6504.68	37	3691.2	40	8034.81	40	7622.02	40	6357.5	41
8	BAU-MH-18-3	8250.93	28	4750.2	36	9045.81	29	8261	19	3827	40	7806.73	31	5280.1	34	10215	24	8417.6	32	7194	34
9	BH 417152	9128.15	14	7035.4	18	8602.02	36	8819.8	7	5014.5	33	7883.08	29	7089.2	6	11183	16	9205.07	24	8374.5	19
10	BH 417182	10080	2	7580.9	11	10408.3	15	9775.7	2	6764.4	4	11006.9	1	7374.2	4	12061.4	5	10628.3	1	9485.3	3
11	BH 417193	9048.58	16	7461.6	12	11955.1	2	7880.3	30	6807.5	3	9587.14	8	7041.5	7	11712.9	9	10039.3	5	9187.3	6
12	CMH-12-686	10721.9	1	8344.3	5	10547.8	12	8708.6	12	7430	1	9270.19	15	6825.3	10	11886.1	6	10106.8	4	9426.1	4
13	CMH-15-012	7490.49	36	7043.9	17	9365.98	26	7179.2	39	5679.5	25	6204.41	40	6177.2	23	9486.93	31	7962.74	38	6709.1	35
14	DH 327	7932.06	30	6990.7	20	9001.38	30	8565.8	13	3707.2	41	6964.17	33	6656.3	16	9197.58	35	8325.56	33	7481	31
15	DH 328	9055.77	15	5696.6	31	7905	41	8550.9	14	5214.1	31	8798.27	22	6300.1	20	9588.66	29	8713.53	30	7800.4	28
16	EH 3638	7881.18	31	7172.7	15	10687.5	11	8086.7	26	5680.5	24	8922.59	19	6680	14	11626.5	10	9542.68	15	8590.4	16
17	HMM 1014	6607.58	41	3890.7	39	10514.3	13	6968.1	40	4543.8	36	5590.72	41	3063.7	42	8779.94	38	7658.6	39	6628.5	38
18	HMM 1019	6870.51	40	3443.9	41	8173.79	40	7461.3	36	5739.7	22	6439.47	38	4597.1	36	8285.23	39	7463.93	41	6646.9	37
19	IMHL-K-19-1	8481.37	24	5042.6	35	8899.61	32	8122.4	25	6366.4	7	9587.07	9	4304	37	9308.7	33	8961.53	26	8142.7	24
20	IWH 1407	6555.04	42	5233.6	32	7729.31	42	7263.7	37	4080.7	39	5462.99	42	4077.6	39	7532.51	42	7072.8	42	5793.3	42
21	IYH 1603	7245.88	37	4729.9	37	9132.89	28	8260.2	20	5876.8	18	6665.53	35	5293.6	33	9500.54	30	8200.17	36	6605.1	39
22	JH 18064	9646.56	6	8918	1	11085.4	7	8863.8	6	6600	5	10164.2	5	7421.4	2	11232.1	15	10195.6	2	9566	2
23	JH 18065	9187.62	11	8914.6	2	9458.86	25	8259.3	21	5502.4	28	10563.7	3	7220.5	5	13153.2	1	9993.32	6	9592.8	1
24	JH 18099	8679.96	20	6690.2	25	9966.93	19	9570.2	3	5735	23	6855.71	34	6130	24	10890.1	17	9339.96	20	8602.9	15
25	JH 32104	9509.88	7	8537	4	10750.4	10	8221.9	23	6135	12	7863.09	30	6975.1	8	10323.7	23	9336.06	21	8871.4	10
26	KMH 18-42	7638.73	34	4026.5	38	10811.4	9	8007.7	27	4793.4	34	6367.66	39	3369.5	41	7973.29	41	8239.65	35	6694.4	36
27	KMH 18-71	7188.29	39	3141.1	42	8222.51	39	8154.1	24	4761.1	35	6976.84	32	4871.2	35	9040.25	36	8050.01	37	6563	40
28	KNMH 4191	7814.26	32	7070	16	9803.55	20	8229.4	22	5528.4	26	9324.78	14	6034	26	11342.4	14	9317.01	23	8331.9	20
29	KNMH 4192	9254.54	10	7619.8	9	11812.8	4	9094	4	6161.7	11	8445.34	25	6009	27	10351.2	22	9880.73	9	8717.4	12
30	KNMH 4194	7232.62	38	6078	29	8469.67	37	7763.6	31	5437.4	29	8913.65	20	6230.3	22	9385.6	32	8250.7	34	7205.4	33
31	LMH 4119	7782.36	33	7946.7	6	9687.76	21	8953.3	5	7395.5	2	8020.05	28	5963.2	28	9784.37	26	8818.25	28	7794.2	29
32	LMH 4219	8505.54	23	5917.4	30	8839.29	35	8536.3	15	5424.5	30	8587.66	24	6804.7	11	9709.1	28	8876.12	27	7921.9	26
33	LMH 4319	9135.34	13	6679.4	26	10505.8	14	7235.3	38	5774	21	10304.4	4	6756.5	13	10577.6	20	9340.15	19	7209.2	32
34	LMH 4419	9431.93	8	7392.3	13	11165.3	5	9800.5	1	5913.6	16	8160.51	27	7484.3	1	11425.7	12	9981.62	7	8716.5	13
35	OMH17-19	8380.37	25	6867.6	22	9472.86	24	8494.8	16	4500.1	37	10098.3	7	6665	15	10506	21	9395.77	17	9187.6	5
36	OMH17-24	9714.27	4	6822.4	23	9521.79	23	7653.5	35	5910.2	17	10897.5	2	5736.3	30	9211.17	34	9319.3	22	8443.7	18
37	RCRMH 13	8141.02	29	5204.7	33	8892.21	33	6947.4	41	6362.4	8	8941.76	18	5910	29	9769.9	27	8589.3	31	7915.4	27
38	RCRMH 14	8574.28	21	7011.2	19	10913.5	8	8378.3	17	6003.4	15	8817.83	21	6496.2	18	10025.2	25	9160.57	25	8035.8	25
39	VaMH 16008	8964.02	17	7597.4	10	8884.33	34	7691.6	34	5510.8	27	9462.92	11	6262.5	21	11840.6	7	9391.47	18	8218.6	22
40	BIO 9544 (C)	9156.84	12	6498.5	27	11891.9	3	6741	42	6162.1	10	9099.86	17	5382.6	32	11444.2	11	9782.08	10	9015.3	7
41	CMH 08-292 (C)	8293.29	27	7906.1	7	9539.82	22	8783.9	10	6436	6	9354.09	12	6563.5	17	12832.2	3	9743.48	11	8881.3	9
42	DHM 121 (C)	8954.86	18	7703.8	8	9287.11	27	8798.2	9	6084	13	9187.69	16	5463.6	31	10684.7	18	9563.32	13	8165	23
	L Mean	8540.13	.	6513	.	9829.36	.	8223.6	.	5615.5	.	8467.03	.	5997.9	.	10424.3	.	9096.88	.	8098.4	.
	CV (%)	9.9	.	20.29	.	13.06	.	14.47	.	20.13	.	16.09	.	19.92	.	12.54	.	13.31	.	13.82	.
	F (Prob)	0	.	0	.	0	.	0.58	.	0.02	.	0	.	0	.	0	.	0	.	0	.
	CD (5%)	1377.66	.	2153.9	.	2092.91	.	1939	.	1842.5	.	2220.1	.	1947	.	2130.88	.	916.26	.	506.7	.
	CD (1%)	1829.9	.	2860.9	.	2779.93	.	2575.5	.	2447.3	.	2948.87	.	2586.1	.	2830.36	.	1206.69	.	666.44	.

Table No. : 3 (Conti...) **Gain in yield (%) overCMH 08-292 (C)**

S. No.	Entry Name	CWZ												NEPZ											
		AMBI		BANS		CHIND		GODH		UDAI		ZONE		BHU		BAHA		BHUB		DHOL		RANC		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH 8245 R	5.42	9	-52.3	37	-7.95	23	-30.76	28	-4.24	22	-3.48	19	-33.49	36	-30.33	32	-4.5	16	-23.71	22	2.9	18	-46.71	34	-18.15	30
2	AH 8452	8.57	7	-17.1	14	-5.78	21	-28.25	24	18.28	9	-3.02	18	-17.9	23	-36.34	36	-11.93	24	-1.11	7	17.48	5	-26.24	22	-12.58	22
3	AH1625	9.51	6	9.04	5	18.96	6	-13.29	11	38.28	6	10.9	5	4.03	5	-17.8	20	10.77	1	-12.28	10	21.27	2	-14.43	11	-1.38	9
4	AH1634	-7.75	23	4.84	7	8.74	13	-48.95	41	8.86	16	-1.91	17	-12.87	20	-9.7	14	-0.23	9	-25.57	26	3.41	17	-26.69	23	-9.5	15
5	AH4142	3.97	10	-21.28	19	11.29	12	-24.02	22	-38.9	40	9.6	7	-4.57	11	-27.26	30	-30.69	39	-31.44	31	4.49	15	-44.95	33	-15.98	26
6	AH4167	-10.49	25	-30.1	26	-28.01	34	-42.19	33	-24.74	33	-21.24	31	-10.87	19	-26.5	28	-32.6	40	-38.44	35	-6.19	29	-23.49	17	-21.06	31
7	BAU-MH-18-2	-32.75	36	-61.23	39	-40.65	38	-38.59	32	-41.59	41	-41.58	38	-38.07	41	-38.93	38	-15.46	30	-44.35	39	-19.05	38	-11.79	7	-31.83	40
8	BAU-MH-18-3	-23.31	30	-45.3	32	-29.62	35	-45.91	38	-9.61	25	-26.49	33	-31.46	35	-32.49	33	-21.89	37	-30.86	28	-6.14	28	-65.33	40	-25.7	35
9	BH 417152	-4.52	20	-5.31	12	-2.56	19	-46.59	39	25.05	7	-8.27	21	-5.93	13	-0.77	7	-14.23	29	-16.02	17	1.85	20	-33.01	29	-4.84	11
10	BH 417182	2.34	13	31.15	1	-0.06	18	-32.25	30	11.67	14	1.01	14	12.6	2	18.59	2	1.64	6	-0.37	6	10.07	7	-14.37	10	9.62	1
11	BH 417193	-6.1	21	14.32	3	5.88	15	-13.54	12	51	2	0.64	15	20.83	1	23.98	1	7.36	2	-30.87	29	13.34	6	-7.05	4	9.22	2
12	CMH-12-686	15.3	5	7.74	6	25.14	3	-30.84	29	41.45	5	19.13	3	-0.13	7	-0.35	6	-2.62	12	15.95	1	8.89	8	4.98	1	6.04	4
13	CMH-15-012	-23.95	31	-4.66	10	-33.29	36	-48.16	40	-31.55	35	-31.13	36	-27.28	30	-19.66	22	-57.84	42	-47.9	41	-3.18	26	-53.1	36	-30.66	37
14	DH 327	-30.6	35	-25.21	23	-4.29	20	-7.23	6	-10.19	26	-20.37	29	-18.58	24	-35.31	34	-11.72	23	-19.36	19	-4.29	27	-26.17	21	-16.43	29
15	DH 328	-0.34	15	-21.01	18	-17.48	29	-11.82	10	-18.17	30	-10.62	23	-24.61	28	-17.01	18	-5.52	17	-28.56	27	-1.46	24	-33.21	30	-16.27	27
16	EH 3638	-4.33	19	-31.05	27	16.96	8	22.97	1	14.99	12	6.25	8	-7.73	15	-1.75	8	-13.1	25	-15.95	16	-0.28	22	-43.07	32	-5.81	12
17	HMM 1014	-53.02	42	-51.37	35	-23.76	31	-16.2	14	-38.33	39	-37.23	37	-34.42	37	-24.7	26	-18.38	35	-40.76	36	-1.54	25	-71.93	42	-24.89	34
18	HMM 1019	-48.7	40	-44.96	31	-35.89	37	-1.43	3	-49.06	42	-43.82	40	-29.91	32	-29.59	31	-15.72	32	-32.65	33	-19.5	39	-65.87	41	-24.76	32
19	IMHL-K-19-1	-7.58	22	-62.09	40	-5.8	22	-34.45	31	-20.42	31	-9.24	22	-17.24	22	-24.7	27	-6.97	19	-24.05	24	-8.29	32	-33.48	31	-15.83	25
20	IWH 1407	-42.1	39	-57.5	38	-66.33	42	-43.93	36	-35.81	38	-59.03	42	-36.61	39	-41.21	39	-32.65	41	-45.17	40	-24.08	42	-62.14	39	-35.75	41
21	IYH 1603	-52.02	41	-64.35	42	-64.67	41	-29.83	26	-15.83	27	-55.25	41	-37.02	40	-41.22	40	-28.36	38	-23.73	23	-23.81	41	-49.92	35	-29.46	36
22	JH 18064	3.56	11	18.29	2	40.99	2	-45.43	37	42.94	4	20.04	2	-0.52	9	-8.49	12	2.8	3	12.86	3	7.47	11	-16.92	13	5.38	5
23	JH 18065	15.59	4	4.54	8	50.07	1	-10.95	9	16.07	11	31.55	1	10.37	4	-7.7	11	-6.37	18	13.32	2	7.67	10	-8.55	5	3.68	6
24	JH 18099	-3.02	18	-39.39	30	20.86	5	-17.57	18	2.28	17	5.29	11	-2.48	10	-18.28	21	-10.35	22	-10.51	9	6.69	13	-24.64	18	-7.99	14
25	JH 32104	18.15	2	-8.73	13	18.39	7	-25.33	23	21.15	8	13.47	4	-0.4	8	-6.24	10	1.01	7	-13.04	11	-6.26	30	-17.55	14	-3.22	10
26	KMH 18-42	-1.94	16	-51.97	36	-54.68	40	-22.44	21	-29.19	34	-29.41	35	-35.46	38	-47.51	42	-21.21	36	-58.62	42	-18.64	37	-56.21	38	-35.76	42
27	KMH 18-71	-39.93	38	-63.31	41	-45.45	39	-8.07	7	-34.18	36	-42.52	39	-30.52	33	-42.09	41	-16.5	34	-41.17	37	-22.68	40	-10.53	6	-31.79	39
28	KNMH 4191	-20.46	28	-22.58	20	3.6	16	-17.23	17	10.39	15	-12.6	24	-8.47	16	-13.53	16	-4	15	-31.27	30	3.51	16	-16.26	12	-11.22	18
29	KNMH 4192	5.47	8	-32.49	28	14.94	9	-50.01	42	16.65	10	3.57	12	-9.77	17	-16.11	17	1.81	5	-15.44	15	8.35	9	-14.17	9	-6.49	13
30	KNMH 4194	-33.45	37	-29.08	25	-26.81	32	-22.05	20	-17.12	29	-27.55	34	-27.49	31	-36.68	37	-13.39	28	-25.45	25	-15.81	35	-54.34	37	-24.84	33
31	LMH 4119	-2.25	17	-35.57	29	-26.97	33	-43.28	34	-15.83	28	-17.66	26	-25.73	29	-8.66	13	-2.93	13	-13.59	14	2.49	19	-25.42	20	-11.11	17
32	LMH 4219	-20.52	29	-18.75	16	-16.25	28	-18.27	19	14.08	13	-23.02	32	-4.88	12	-21.87	24	-15.58	31	-18.63	18	-12.98	34	-30.97	28	-11.41	19
33	LMH 4319	-25.79	34	-50.58	34	-11.62	27	-43.74	35	-0.68	20	-20.6	30	-43.45	42	-35.58	35	-13.26	27	-42.51	38	-16.51	36	-27.15	25	-31.77	38
34	LMH 4419	3.21	12	-27.94	24	8.01	14	-16.31	15	-1.96	21	5.65	10	-21.66	25	-17.5	19	2.59	4	-13.44	12	-6.57	31	-18.81	16	-11.78	20
35	OMH17-19	16.55	3	-18.32	15	12.8	11	-6.34	5	46.74	3	10.14	6	11.34	3	0.77	4	-3.82	14	3.94	4	18.66	4	1.45	2	7.92	3
36	OMH17-24	20.85	1	-49.72	33	-10.24	25	-4.22	4	-34.76	37	2.29	13	-10.49	18	-26.64	29	-10	21	-13.51	13	7.1	12	-30.44	27	-10.97	16
37	RCRMH 13	-10.08	24	-19.78	17	-18.03	30	-16.45	16	-6.63	23	-14.05	25	-22.44	27	-12.97	15	-7.61	20	-20.84	20	-0.91	23	-26.94	24	-13.28	24
38	RCRMH 14	-19.38	27	-5.11	11	-11.53	26	-29.77	25	0.77	18	-18.37	27	-21.87	26	-20.16	23	-13.11	26	-8.87	8	5.68	14	-13.83	8	-12.92	23
39	VaMH 16008	-24.83	33	13.33	4	14.74	10	-9.94	8	-9.26	24	-6.81	20	-13.52	21	-3.54	9	-16.04	33	-34.04	34	-12.71	33	-18.75	15	-16.4	28
40	BIO 9544 (C)	-11.22	26	-23.34	21	25.09	4	-15.67	13	67.23	1	6.22	9	-7.47	14	8.05	3	-1.05	10	-23.02	21	18.98	3	-25.21	19	-0.31	8
41	CMH 08-292 (C)	0	14	0	9	0	17	0	2	0	19	0	16	0	6	0	5	0	8	0	5	0	21	0	3	0	7
42	DHM 121 (C)	-24.22	32	-24.21	22	-9.38	24	-30.68	27	-22.48	32	-19.56	28	-31.45	34	-22.55	25	-1.22	11	-32.26	32	30.22	1	-28.13	26	-11.8	21

Table No. : 3 **(Conti...)** **Gain in yield (%) overCMH 08-292 (C)**

S. No.	Entry Name	NWPZ										PZ																All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH 8245 R	9.17	8	-0.72	35	-0.44	20	-24.71	32	-13.93	31	19.07	3	-35	34	8.22	16	-4.98	18	-9.3	19	2.3	10	-7.8	25	-11	13	1.98	8	-7.39	21
2	AH 8452	-19.23	27	21.75	2	1.86	17	2.52	4	6.44	3	12.12	9	-19.6	28	33.93	1	-11.7	33	-3.02	9	-0.25	13	4.48	9	-4.76	4	4.46	3	-1.24	11
3	AH1625	-7.06	18	5.7	21	12.66	11	-0.5	7	3.34	6	16.64	5	-15.2	24	6.15	17	0.35	8	-9.32	20	-7.52	23	-2.92	19	-16.9	19	-1.87	14	0.96	8
4	AH1634	12.23	6	17.51	5	12.7	10	-6.97	14	0.45	12	7.52	19	8.92	3	-5.88	31	-0.03	11	-5.86	14	-12.5	26	12.44	3	1.94	2	-3.04	16	-4.19	17
5	AH4142	-14.1	22	15.31	8	16.96	6	-8.35	16	2.96	7	0.23	26	-8.02	14	5.84	18	-11.7	32	-21	32	8.15	6	-34.6	38	-8.47	8	-0.06	12	-3.01	14
6	AH4167	-31.44	36	7.98	14	5.05	16	-22.34	30	-13.11	30	3.26	22	-12.2	21	16.46	6	-9.56	28	-31.8	38	-28.8	36	3	12	-31.6	37	-10.5	29	-15.2	30
7	BAU-MH-18-2	-57.72	42	3.06	26	-25.25	38	-49.35	41	-26.61	40	-9.43	35	-55	40	-11.2	38	-10	29	-45	42	-30.5	37	-43.8	40	-37.4	40	-21.8	40	-28.4	41
8	BAU-MH-18-3	-28.23	32	4.88	24	-23.15	36	-17.52	28	-11.64	29	-0.51	28	-39.9	36	-5.18	29	-5.95	19	-40.5	40	-16.5	31	-19.6	34	-20.4	24	-13.6	32	-19	34
9	BH 417152	10.9	7	-7.08	41	10.9	13	-9.85	18	-7.11	24	10.07	14	-11	18	-9.83	36	0.41	7	-22.1	33	-15.7	29	8.01	6	-12.9	16	-5.53	24	-5.71	19
10	BH 417182	15.49	3	7.64	15	26.67	3	-2.68	10	0.81	11	21.54	2	-4.11	11	9.1	15	11.29	2	5.1	4	17.67	1	12.35	4	-6.01	5	9.08	1	6.8	3
11	BH 417193	2.35	13	1.8	30	-16.42	33	-8.25	15	-4.3	20	9.11	16	-5.62	12	25.32	2	-10.3	30	5.77	3	2.49	8	7.28	7	-8.72	9	3.04	5	3.45	6
12	CMH-12-686	-38.9	37	21.1	3	-11.39	29	-10.39	20	0.1	14	29.28	1	5.54	5	10.57	12	-0.86	12	15.44	1	-0.9	15	3.99	10	-7.37	6	3.73	4	6.13	4
13	CMH-15-012	-25.84	30	-2.47	36	-36.2	39	-38.69	37	-21.91	36	-9.68	36	-10.9	17	-1.82	26	-18.3	39	-11.8	25	-33.7	40	-5.89	23	-26.1	31	-18.3	38	-24.5	35
14	DH 327	-0.24	16	-0.02	33	-11.25	28	-24.69	31	-14.19	33	-4.36	30	-11.6	20	-5.64	30	-2.48	13	-42.4	41	-25.6	33	1.42	16	-28.3	35	-14.6	33	-15.8	31
15	DH 328	-12.05	21	2.67	29	-18.7	34	-16.27	26	-10.23	27	9.19	15	-28	31	-17.1	41	-2.65	14	-19	31	-5.94	22	-4.01	20	-25.3	29	-10.6	30	-12.2	28
16	EH 3638	-15.95	24	-11.3	42	23.97	4	-9.89	19	-11.52	28	-4.97	31	-9.28	15	12.03	11	-7.94	26	-11.7	24	-4.61	19	1.78	14	-9.4	10	-2.06	15	-3.28	16
17	HMM 1014	-28.9	33	-4.25	39	-49.77	41	-40.1	38	-24.15	39	-20.3	41	-50.8	39	10.21	13	-20.7	40	-29.4	36	-40.2	41	-53.3	42	-31.6	38	-21.4	39	-25.4	38
18	HMM 1019	-51.47	41	7.46	17	-54.5	42	-28.99	33	-13.94	32	-17.2	40	-56.4	41	-14.3	40	-15.1	36	-10.8	22	-31.2	38	-30	36	-35.4	39	-23.4	41	-25.2	37
19	IMHL-K-19-1	8.67	9	6.75	18	-14.99	32	2.12	5	5.09	4	2.27	24	-36.2	35	-6.71	32	-7.53	25	-1.08	7	2.49	9	-34.4	37	-27.5	33	-8.03	26	-8.32	24
20	IWH 1407	-8.33	19	1.63	31	-48.3	40	-54.12	42	-31.11	42	-21	42	-33.8	32	-19	42	-17.3	37	-36.6	39	-41.6	42	-37.9	39	-41.3	42	-27.4	42	-34.8	42
21	IYH 1603	-42.04	38	5.06	23	-24.02	37	-29.01	34	-15.11	34	-12.6	37	-40.2	37	-4.27	28	-5.96	20	-8.69	18	-28.7	35	-19.4	33	-26	30	-15.8	36	-25.6	39
22	JH 18064	-5.6	17	2.79	28	7.14	15	8.99	1	7.91	1	16.32	6	12.8	1	16.2	7	0.91	6	2.55	5	8.66	5	13.07	2	-12.5	15	4.64	2	7.71	2
23	JH 18065	5.68	12	19.86	4	31.66	1	6.31	2	7.48	2	10.78	11	12.76	2	-0.85	25	-5.97	21	-14.5	28	12.93	3	10.01	5	2.5	1	2.56	6	8.01	1
24	JH 18099	41.54	1	14.7	9	-14.43	31	-10.83	22	-1.01	16	4.66	20	-15.4	25	4.48	19	8.95	3	-10.9	23	-26.7	34	-6.6	24	-15.1	17	-4.14	20	-3.13	15
25	JH 32104	-19.18	26	8.78	13	-5.89	23	-1.78	9	1.38	10	14.67	7	7.98	4	12.69	10	-6.4	23	-4.68	12	-15.9	30	6.27	8	-19.6	23	-4.18	21	-0.11	10
26	KMH 18-42	-48.8	39	6.71	19	-21.53	35	-42.93	40	-22.17	37	-7.89	34	-49.1	38	13.33	9	-8.84	27	-25.5	34	-31.9	39	-48.7	41	-37.9	41	-15.4	35	-24.6	36
27	KMH 18-71	-50.71	40	-2.62	37	-6.59	24	-33.99	36	-23.25	38	-13.3	39	-60.3	42	-13.8	39	-7.17	24	-26	35	-25.4	32	-25.8	35	-29.6	36	-17.4	37	-26.1	40
28	KNMH 4191	-17.22	25	27.58	1	12.35	12	-9.65	17	2.48	8	-5.78	32	-10.6	16	2.76	20	-6.31	22	-14.1	26	-0.31	14	-8.07	26	-11.6	14	-4.38	23	-6.19	20
29	KNMH 4192	6.43	11	3.03	27	29.53	2	-17.13	27	-7.97	25	11.59	10	-3.62	9	23.83	4	3.53	4	-4.26	11	-9.71	25	-8.45	27	-19.3	22	1.41	9	-1.85	12
30	KNMH 4194	-29.5	34	9.74	12	-13.35	30	-17.97	29	-6.84	23	-12.8	38	-23.1	29	-11.2	37	-11.6	31	-15.5	29	-4.71	20	-5.08	22	-26.9	32	-15.3	34	-18.9	33
31	LMH 4119	14.57	4	5.45	22	-7.35	25	-31.78	35	-16.59	35	-6.16	33	0.51	6	1.55	21	1.93	5	14.91	2	-14.3	28	-9.15	28	-23.8	26	-9.5	28	-12.2	29
32	LMH 4219	0.18	14	-4.88	40	-7.39	26	-4.13	11	-6.02	22	2.56	23	-25.2	30	-7.34	35	-2.82	15	-15.7	30	-8.19	24	3.68	11	-24.3	28	-8.9	27	-10.8	26
33	LMH 4319	-25.11	29	-3.72	38	-11.12	27	-41.91	39	-28.24	41	10.15	13	-15.5	26	10.13	14	-17.6	38	-10.3	21	10.16	4	2.94	13	-17.6	20	-4.14	19	-18.8	32
34	LMH 4419	17.08	2	-0.13	34	8.57	14	-1.75	8	0.23	13	13.73	8	-6.5	13	17.04	5	11.57	1	-8.12	16	-12.8	27	14.03	1	-11	12	2.44	7	-1.86	13
35	OMH17-19	7.95	10	7.64	16	1.59	18	3.04	3	4.41	5	1.05	25	-13.1	22	-0.7	24	-3.29	16	-30.1	37	7.96	7	1.55	15	-18.1	21	-3.57	17	3.45	5
36	OMH17-24	-20.91	28	16.14	7	20.74	5	-13.64	24	-1.51	19	17.13	4	-13.7	23	-0.19	23	-12.9	35	-8.17	17	16.5	2	-12.6	30	-28.2	34	-4.35	22	-4.93	18
37	RCRMH 13	-26.8	31	10.86	11	-2.92	21	-10.44	21	-1.39	18	-1.84	29	-34.2	33	-6.79	33	-20.9	41	-1.14	8	-4.41	18	-9.96	29	-23.9	27	-11.9	31	-10.9	27
38	RCRMH 14	-15.21	23	5.86	20	-4.41	22	-5.79	13	-4.34	21	3.39	21	-11.3	19	14.4	8	-4.62	17	-6.72	15	-5.73	21	-1.02	18	-21.9	25	-5.98	25	-9.52	25
39	VaMH 16008	-30.3	35	17.35	6	15.09	8	-12.95	23	-1.23	17	8.09	17	-3.9	10	-6.87	34	-12.4	34	-14.4	27	1.16	11	-4.58	21	-7.73	7	-3.61	18	-7.46	22
40	BIO 9544 (C)	12.79	5	13.03	10	14.62	9	-4.32	12	1.98	9	10.41	12	-17.8	27	24.66	3	-23.3	42	-4.26	10	-2.72	17	-18	32	-10.8	11	0.4	10	1.51	7
41	CMH 08-292 (C)	0	15	0	32	0	19	0	6	0	15	0	27	0	7	0	22	0	10	0	6	0	12	0	17	0	3	0	11	0	9
42	DHM 121 (C)	-11.19	20	4.84	25	16.89	7	-15.34	25	-8.66	26	7.98	18	-2.56	8	-2.65	27	0.16	9	-5.47	13	-1.78	16	-16.8	31	-16.7	18	-1.85	13	-8.06	23

Table No. : 3 (Conti...) **Gain in yield (%) over DHM 121**

S. No.	Entry Name	CWZ												NEPZ													
		AMBI		BANS		CHIND		GODH		UDAI		ZONE		BHU		BAHA		BHUB		DHOL		RANC		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH 8245 R	39.11	9	-37.06	37	1.57	23	-0.1	28	23.54	22	19.99	19	-2.98	36	-10.05	32	-3.33	16	12.63	22	-20.98	18	-25.85	34	-7.2	30
2	AH 8452	43.28	7	9.38	14	3.97	21	3.51	24	52.59	9	20.56	18	19.77	23	-17.81	36	-10.85	24	45.99	7	-9.78	5	2.63	22	-0.88	22
3	AH1625	44.51	6	43.87	5	31.27	6	25.09	11	78.38	6	37.87	5	51.75	5	6.14	20	12.13	1	29.51	10	-6.87	2	19.06	11	11.81	9
4	AH1634	21.74	23	38.33	7	19.99	13	-26.35	41	40.44	16	21.95	17	27.1	20	16.59	14	1	9	9.89	26	-20.59	17	2	23	2.61	15
5	AH4142	37.2	10	3.87	19	22.81	12	9.62	22	-21.17	40	36.25	7	39.22	11	-6.08	30	-29.84	39	1.22	31	-19.76	15	-23.4	33	-4.74	26
6	AH4167	18.12	25	-7.78	26	-20.56	34	-16.6	33	-2.91	33	-2.09	31	30.02	19	-5.1	28	-31.77	40	-9.11	35	-27.96	29	6.46	17	-10.5	31
7	BAU-MH-18-2	-11.26	36	-48.85	39	-34.51	38	-11.41	32	-24.64	41	-27.38	38	-9.66	41	-21.14	38	-14.42	30	-17.85	39	-37.84	38	22.74	7	-22.71	40
8	BAU-MH-18-3	1.2	30	-27.83	32	-22.33	35	-21.96	38	16.61	25	-8.62	33	-0.01	35	-12.83	33	-20.93	37	2.07	28	-27.92	28	-51.76	40	-15.76	35
9	BH 417152	26	20	24.94	12	7.53	19	-22.95	39	61.32	7	14.04	21	37.23	13	28.12	7	-13.17	29	23.98	17	-21.79	20	-6.78	29	7.89	11
10	BH 417182	35.05	13	73.04	1	10.28	18	-2.27	30	44.06	14	25.57	14	64.25	2	53.12	2	2.89	6	47.09	6	-15.47	7	19.14	10	24.28	1
11	BH 417193	23.92	21	50.83	3	16.84	15	24.73	12	94.8	2	25.11	15	76.27	1	60.08	1	8.68	2	2.06	29	-12.96	6	29.33	4	23.83	2
12	CMH-12-686	52.16	5	42.15	6	38.1	3	-0.23	29	82.47	5	48.1	3	45.68	7	28.67	6	-1.42	12	71.18	1	-16.38	8	46.08	1	20.23	4
13	CMH-15-012	0.36	31	25.79	10	-26.38	36	-25.21	40	-11.7	35	-14.38	36	6.08	30	3.73	22	-57.32	42	-23.09	41	-25.65	26	-34.74	36	-21.39	37
14	DH 327	-8.42	35	-1.32	23	5.62	20	33.84	6	15.86	26	-1.01	29	18.78	24	-16.48	34	-10.64	23	19.05	19	-26.5	27	2.73	21	-5.25	29
15	DH 328	31.52	15	4.22	18	-8.93	29	27.21	10	5.57	30	11.12	23	9.98	28	7.16	18	-4.36	17	5.46	27	-24.33	24	-7.06	30	-5.07	27
16	EH 3638	26.25	19	-9.02	27	29.07	8	77.4	1	48.35	12	32.08	8	34.6	15	26.86	8	-12.03	25	24.09	16	-23.42	22	-20.78	32	6.79	12
17	HMM 1014	-38	42	-35.84	35	-15.87	31	20.9	14	-20.45	39	-21.96	37	-4.33	37	-2.77	26	-17.38	35	-12.54	36	-24.39	25	-60.95	42	-14.84	34
18	HMM 1019	-32.3	40	-27.39	31	-29.25	37	42.2	3	-34.28	42	-30.15	40	2.25	32	-9.08	31	-14.68	32	-0.57	33	-38.18	39	-52.51	41	-14.69	32
19	IMHL-K-19-1	21.96	22	-49.98	40	3.96	22	-5.43	31	2.66	31	12.83	22	20.72	22	-2.78	27	-5.82	19	12.13	24	-29.57	32	-7.44	31	-4.57	25
20	IWH 1407	-23.6	39	-43.93	38	-62.85	42	-19.11	36	-17.2	38	-49.07	42	-7.52	39	-24.1	39	-31.82	41	-19.06	40	-41.7	42	-47.31	39	-27.16	41
21	IYH 1603	-36.68	41	-52.97	42	-61.01	41	1.23	26	8.58	27	-44.36	41	-8.13	40	-24.1	40	-27.48	38	12.6	23	-41.49	41	-30.31	35	-20.03	36
22	JH 18064	36.66	11	56.07	2	55.59	2	-21.27	37	84.4	4	49.23	2	45.12	9	18.15	12	4.06	3	66.61	3	-17.47	11	15.6	13	19.48	5
23	JH 18065	52.54	4	37.93	8	65.6	1	28.47	9	49.74	11	63.54	1	61.01	4	19.18	11	-5.22	18	67.29	2	-17.32	10	27.25	5	17.55	6
24	JH 18099	27.98	18	-20.02	30	33.37	5	18.91	18	31.95	17	30.9	11	42.27	10	5.52	21	-9.24	22	32.11	9	-18.06	13	4.86	18	4.31	14
25	JH 32104	55.92	2	20.42	13	30.64	7	7.73	23	56.29	8	41.06	4	45.29	8	21.07	10	2.25	7	28.39	11	-28.01	30	14.72	14	9.72	10
26	KMH 18-42	29.4	16	-36.63	36	-49.99	40	11.9	21	-8.65	34	-12.24	35	-5.86	38	-32.22	42	-20.24	36	-38.91	42	-37.52	37	-39.07	38	-27.17	42
27	KMH 18-71	-20.73	38	-51.59	41	-39.8	39	32.62	7	-15.09	36	-28.54	39	1.36	33	-25.23	41	-15.47	34	-13.15	37	-40.62	40	24.5	6	-22.66	39
28	KNMH 4191	4.97	28	2.15	20	14.33	16	19.41	17	42.41	15	8.66	24	33.52	16	11.65	16	-2.82	15	1.47	30	-20.51	16	16.52	12	0.66	18
29	KNMH 4192	39.18	8	-10.92	28	26.84	9	-27.89	42	50.49	10	28.76	12	31.63	17	8.32	17	3.06	5	24.84	15	-16.8	9	19.43	9	6.02	13
30	KNMH 4194	-12.18	37	-6.42	25	-19.23	32	12.45	20	6.93	29	-9.93	34	5.78	31	-18.25	37	-12.32	28	10.06	25	-35.35	35	-36.46	37	-14.79	33
31	LMH 4119	29	17	-14.98	29	-19.42	33	-18.17	34	8.58	28	2.37	26	8.34	29	17.94	13	-1.73	13	27.56	14	-21.29	19	3.77	20	0.78	17
32	LMH 4219	4.88	29	7.21	16	-7.58	28	17.92	19	47.17	13	-4.3	32	38.75	12	0.88	24	-14.54	31	20.12	18	-33.17	34	-3.95	28	0.44	19
33	LMH 4319	-2.07	34	-34.8	34	-2.47	27	-18.83	35	28.13	20	-1.29	30	-17.51	42	-16.82	35	-12.19	27	-15.13	38	-35.88	36	1.37	25	-22.64	38
34	LMH 4419	36.2	12	-4.93	24	19.19	14	20.74	15	26.47	21	31.34	10	14.28	25	6.52	19	3.85	4	27.78	12	-28.25	31	12.97	16	0.02	20
35	OMH17-19	53.8	3	7.77	15	24.48	11	35.12	5	89.31	3	36.92	6	62.41	3	30.12	4	-2.63	14	53.45	4	-8.88	4	41.17	2	22.36	3
36	OMH17-24	59.48	1	-33.66	33	-0.95	25	38.17	4	-15.84	37	27.17	13	30.57	18	-5.29	29	-8.9	21	27.69	13	-17.75	12	-3.22	27	0.94	16
37	RCRMH 13	18.65	24	5.85	17	-9.55	30	20.53	16	20.45	23	6.85	25	13.15	27	12.37	15	-6.47	20	16.87	20	-23.91	23	1.65	24	-1.67	24
38	RCRMH 14	6.39	27	25.2	11	-2.37	26	1.31	25	30	18	1.48	27	13.98	26	3.08	23	-12.05	26	34.53	8	-18.85	14	19.9	8	-1.27	23
39	VaMH 16008	-0.8	33	49.53	4	26.62	10	29.92	8	17.06	24	15.85	20	26.16	21	24.54	9	-15	33	-2.63	34	-32.96	33	13.05	15	-5.21	28
40	BIO 9544 (C)	17.16	26	1.15	21	38.04	4	21.67	13	115.74	1	32.06	9	34.98	14	39.51	3	0.17	10	13.65	21	-8.63	3	4.07	19	13.03	8
41	CMH 08-292 (C)	31.96	14	31.94	9	10.35	17	44.27	2	29.01	19	24.32	16	45.88	6	29.12	5	1.23	8	47.63	5	-23.21	21	39.14	3	13.38	7
42	DHM 121 (C)	0	32	0	22	0	24	0	27	0	32	0	28	0	34	0	25	0	11	0	32	0	1	0	26	0	21

Table No. : 3 **(Conti...)** **Gain in yield (%) over DHM 121**

S. No.	Entry Name	NWPZ										PZ																All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH 8245 R	22.92	8	-5.3	35	-14.82	20	-11.07	32	-5.77	31	10.27	3	-33.3	34	11.17	16	-5.14	18	-4.05	19	4.15	10	10.76	25	6.86	13	3.9	8	0.74	21
2	AH 8452	-9.05	27	16.14	2	-12.85	17	21.1	4	16.52	3	3.84	9	-17.4	28	37.57	1	-11.8	33	2.6	9	1.55	13	25.51	9	14.39	4	6.43	3	7.43	11
3	AH1625	4.65	18	0.82	21	-3.62	11	17.54	7	13.14	6	8.02	5	-13	24	9.03	17	0.19	8	-4.07	20	-5.84	23	16.62	19	-0.14	19	-0.02	14	9.82	8
4	AH1634	26.37	6	12.08	5	-3.58	10	9.9	14	9.98	12	-0.42	19	11.78	3	-3.32	31	-0.19	11	-0.42	14	-10.9	26	35.07	3	22.43	2	-1.22	16	4.21	17
5	AH4142	-3.28	22	9.98	8	0.06	6	8.27	16	12.72	7	-7.18	26	-5.6	14	8.72	18	-11.8	32	-16.4	32	10.11	6	-21.5	38	9.93	8	1.82	12	5.5	14
6	AH4167	-22.8	36	2.99	14	-10.13	16	-8.26	30	-4.88	30	-4.37	22	-9.9	21	19.63	6	-9.71	28	-27.9	38	-27.5	36	23.73	12	-17.8	37	-8.78	29	-7.8	30
7	BAU-MH-18-2	-52.39	42	-1.7	26	-36.05	38	-40.17	41	-19.65	40	-16.1	35	-53.8	40	-8.82	38	-10.2	29	-41.8	42	-29.2	37	-32.4	40	-24.8	40	-20.3	40	-22.1	41
8	BAU-MH-18-3	-19.19	32	0.04	24	-34.25	36	-2.57	28	-3.27	29	-7.86	28	-38.3	36	-2.6	29	-6.11	19	-37.1	40	-15	31	-3.36	34	-4.4	24	-12	32	-11.9	34
9	BH 417152	24.87	7	-11.36	41	-5.13	13	6.49	18	1.7	24	1.94	14	-8.68	18	-7.38	36	0.25	7	-17.6	33	-14.2	29	29.75	6	4.66	16	-3.75	24	2.57	19
10	BH 417182	30.04	3	2.68	15	8.37	3	14.96	10	10.37	11	12.56	2	-1.59	11	12.07	15	11.11	2	11.18	4	19.8	1	34.97	4	12.88	5	11.14	1	16.17	3
11	BH 417193	15.25	13	-2.89	30	-28.5	33	8.38	15	4.77	20	1.05	16	-3.14	12	28.73	2	-10.4	30	11.89	3	4.35	8	28.88	7	9.62	9	4.98	5	12.52	6
12	CMH-12-686	-31.2	37	15.51	3	-24.2	29	5.85	20	9.58	14	19.73	1	8.31	5	13.57	12	-1.02	12	22.12	1	0.9	15	24.92	10	11.24	6	5.68	4	15.45	4
13	CMH-15-012	-16.5	30	-6.97	36	-45.42	39	-27.57	37	-14.51	36	-16.4	36	-8.57	17	0.85	26	-18.4	39	-6.65	25	-32.5	40	13.06	23	-11.2	31	-16.7	38	-17.8	35
14	DH 327	12.32	16	-4.63	33	-24.07	28	-11.04	31	-6.05	33	-11.4	30	-9.26	20	-3.08	30	-2.64	13	-39.1	41	-24.2	33	21.83	16	-13.9	35	-12.9	33	-8.38	31
15	DH 328	-0.97	21	-2.07	29	-30.45	34	-1.09	26	-1.73	27	1.13	15	-26.1	31	-14.9	41	-2.81	14	-14.3	31	-4.24	22	15.31	20	-10.3	29	-8.89	30	-4.47	28
16	EH 3638	-5.36	24	-15.36	42	6.06	4	6.44	19	-3.14	28	-12	31	-6.89	15	15.08	11	-8.09	26	-6.63	24	-2.89	19	22.26	14	8.82	10	-0.22	15	5.21	16
17	HMM 1014	-19.95	33	-8.67	39	-57.03	41	-29.25	38	-16.96	39	-26.2	41	-49.5	39	13.21	13	-20.8	40	-25.3	36	-39.2	41	-43.9	42	-17.8	38	-19.9	39	-18.8	38
18	HMM 1019	-45.36	41	2.5	17	-61.08	42	-16.11	33	-5.78	32	-23.3	40	-55.3	41	-12	40	-15.2	36	-5.66	22	-29.9	38	-15.9	36	-22.5	39	-22	41	-18.6	37
19	IMHL-K-19-1	22.36	9	1.82	18	-27.28	32	20.63	5	15.05	4	-5.29	24	-34.5	35	-4.17	32	-7.68	25	4.64	7	4.35	9	-21.2	37	-12.9	33	-6.29	26	-0.27	24
20	IWH 1407	3.22	19	-3.06	31	-55.77	40	-45.81	42	-24.58	42	-26.8	42	-32.1	32	-16.8	42	-17.4	37	-32.9	39	-40.5	42	-25.4	39	-29.5	42	-26	42	-29.1	42
21	IYH 1603	-34.74	38	0.21	23	-35	37	-16.14	34	-7.06	34	-19.1	37	-38.6	37	-1.66	28	-6.11	20	-3.41	18	-27.5	35	-3.11	33	-11.1	30	-14.3	36	-19.1	39
22	JH 18064	6.3	17	-1.95	28	-8.34	15	28.75	1	18.13	1	7.72	6	15.76	1	19.36	7	0.74	6	8.48	5	10.63	5	35.83	2	5.12	15	6.61	2	17.16	2
23	JH 18065	18.99	12	14.33	4	12.64	1	25.58	2	17.67	2	2.6	11	15.72	2	1.85	25	-6.13	21	-9.56	28	14.98	3	32.16	5	23.1	1	4.5	6	17.49	1
24	JH 18099	59.37	1	9.4	9	-26.79	31	5.33	22	8.37	16	-3.07	20	-13.2	25	7.32	19	8.77	3	-5.74	23	-25.4	34	12.2	24	1.92	17	-2.34	20	5.36	15
25	JH 32104	-8.99	26	3.76	13	-19.48	23	16.03	9	10.99	10	6.2	7	10.82	4	15.76	10	-6.55	23	0.84	12	-14.4	30	27.66	8	-3.38	23	-2.38	21	8.65	10
26	KMH 18-42	-42.35	39	1.78	19	-32.87	35	-32.58	40	-14.8	37	-14.7	34	-47.7	38	16.41	9	-8.99	27	-21.2	34	-30.7	39	-38.3	41	-25.4	41	-13.8	35	-18	36
27	KMH 18-71	-44.5	40	-7.12	37	-20.09	24	-22.03	36	-15.97	38	-19.7	39	-59.2	42	-11.5	39	-7.32	24	-21.7	35	-24.1	32	-10.8	35	-15.4	36	-15.8	37	-19.6	40
28	KNMH 4191	-6.79	25	21.69	1	-3.88	12	6.73	17	12.19	8	-12.7	32	-8.23	16	5.56	20	-6.47	22	-9.13	26	1.49	14	10.44	26	6.16	14	-2.58	23	2.04	20
29	KNMH 4192	19.84	11	-1.72	27	10.82	2	-2.11	27	0.75	25	3.35	10	-1.09	9	27.2	4	3.36	4	1.28	11	-8.08	25	9.98	27	-3.12	22	3.32	9	6.76	12
30	KNMH 4194	-20.62	34	4.68	12	-25.87	30	-3.1	29	1.99	23	-19.2	38	-21.1	29	-8.8	37	-11.8	31	-10.6	29	-2.98	20	14.03	22	-12.2	32	-13.7	34	-11.8	33
31	LMH 4119	29	4	0.58	22	-20.74	25	-19.41	35	-8.69	35	-13.1	33	3.15	6	4.31	21	1.76	5	21.56	2	-12.7	28	9.14	28	-8.43	26	-7.79	28	-4.54	29
32	LMH 4219	12.8	14	-9.27	40	-20.77	26	13.25	11	2.88	22	-5.02	23	-23.2	30	-4.82	35	-2.98	15	-10.8	30	-6.53	24	24.55	11	-9.13	28	-7.19	27	-2.98	26
33	LMH 4319	-15.67	29	-8.17	38	-23.96	27	-31.38	39	-21.44	41	2.02	13	-13.3	26	13.12	14	-17.8	38	-5.1	21	12.15	4	23.66	13	-1	20	-2.33	19	-11.7	32
34	LMH 4419	31.83	2	-4.74	34	-7.12	14	16.06	8	9.73	13	5.33	8	-4.04	13	20.22	5	11.39	1	-2.8	16	-11.2	27	36.98	1	6.94	12	4.37	7	6.75	13
35	OMH17-19	21.55	10	2.67	16	-13.09	18	21.71	3	14.31	5	-6.42	25	-10.9	22	2	24	-3.45	16	-26	37	9.91	7	21.99	15	-1.67	21	-1.75	17	12.52	5
36	OMH17-24	-10.95	28	10.78	7	3.3	5	2.02	24	7.83	19	8.48	4	-11.4	23	2.53	23	-13	35	-2.86	17	18.61	2	4.99	30	-13.8	34	-2.55	22	3.41	18
37	RCRMH 13	-17.58	31	5.75	11	-16.95	21	5.79	21	7.96	18	-9.09	29	-32.4	33	-4.25	33	-21	41	4.58	8	-2.68	18	8.17	29	-8.56	27	-10.2	31	-3.06	27
38	RCRMH 14	-4.53	23	0.98	20	-18.22	22	11.28	13	4.73	21	-4.25	21	-8.99	19	17.51	8	-4.77	17	-1.32	15	-4.03	21	18.9	18	-6.17	25	-4.21	25	-1.58	25
39	VaMH 16008	-21.52	35	11.93	6	-1.54	8	2.83	23	8.13	17	0.1	17	-1.38	10	-4.34	34	-12.6	34	-9.42	27	3	11	14.62	21	10.82	7	-1.8	18	0.66	22
40	BIO 9544 (C)	27	5	7.82	10	-1.94	9	13.02	12	11.64	9	2.26	12	-15.7	27	28.05	3	-23.4	42	1.28	10	-0.96	17	-1.48	32	7.11	11	2.29	10	10.41	7
41	CMH 08-292 (C)	12.6	15	-4.62	32	-14.45	19	18.13	6	9.48	15	-7.39	27	2.63	7	2.72	22	-0.16	10	5.79	6	1.81	12	20.13	17	20.1	3	1.88	11	8.77	9
42	DHM 121 (C)	0	20	0	25	0	7	0	25	0	26	0	18	0	8	0	27	0	9	0	13	0	16	0	31	0	18	0	13	0	23

Table No. : 3 (Conti...) **Number of Cobs**

S. No.	Entry Name	CWZ						NEPZ							NWPZ				
		AMBI	BANS	CHIND	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE	IARI	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8245 R	37	27	31	14	29	28	35	35	33	41	34	39	36	31	47	39	38	38
2	AH 8452	35	28	30	13	30	27	37	34	34	42	34	38	36	25	47	39	42	38
3	AH1625	36	27	34	15	31	29	35	34	37	41	35	38	36	25	45	37	41	37
4	AH1634	33	31	27	12	32	27	33	35	34	30	35	38	34	28	46	35	39	37
5	AH4142	35	27	27	12	23	25	33	33	27	28	33	38	32	22	45	39	34	35
6	AH4167	35	29	29	12	31	27	37	36	34	35	33	39	36	22	45	36	37	36
7	BAU-MH-18-2	30	24	32	12	26	25	35	34	36	38	34	39	36	22	48	39	35	36
8	BAU-MH-18-3	33	26	36	12	24	26	36	34	36	38	33	36	35	25	46	38	43	38
9	BH 417152	32	31	33	10	35	28	35	35	33	38	31	36	35	24	49	37	42	38
10	BH 417182	35	26	31	12	33	28	33	34	34	34	34	36	34	25	46	35	35	36
11	BH 417193	33	29	28	14	32	27	37	35	37	33	33	35	35	26	45	37	39	36
12	CMH-12-686	37	29	37	13	31	30	34	38	35	39	36	40	37	21	47	39	40	37
13	CMH-15-012	30	26	17	13	23	22	32	35	16	22	33	31	28	16	44	33	24	30
14	DH 327	34	29	34	15	26	27	35	35	36	41	35	40	37	34	47	37	42	39
15	DH 328	36	28	31	15	31	28	36	33	35	37	31	39	35	26	46	38	41	38
16	EH 3638	35	27	37	17	30	29	37	34	34	37	35	39	36	26	47	39	40	38
17	HMM 1014	25	26	31	14	28	25	34	32	35	35	33	31	34	23	47	33	37	35
18	HMM 1019	27	25	34	15	29	25	32	34	33	37	34	37	35	21	46	36	34	34
19	IMHL-K-19-1	33	24	37	12	24	26	39	36	35	40	31	37	37	33	47	39	47	41
20	IWH 1407	29	24	20	9	29	22	29	31	33	34	36	35	33	24	45	34	30	33
21	IYH 1603	25	27	22	18	35	25	34	32	36	25	32	37	33	21	44	35	40	35
22	JH 18064	36	28	39	11	30	29	32	33	37	41	34	37	36	21	45	36	39	36
23	JH 18065	37	27	37	15	28	29	34	37	34	37	35	39	36	26	47	38	42	39
24	JH 18099	34	27	33	14	29	28	39	33	35	35	34	39	36	33	46	36	42	39
25	JH 32104	37	29	34	15	33	30	35	34	33	39	34	35	35	26	45	39	45	38
26	KMH 18-42	35	26	27	14	29	26	37	32	35	38	31	37	36	26	46	40	39	38
27	KMH 18-71	30	26	32	16	29	26	36	33	34	37	33	38	35	22	45	37	37	35
28	KNMH 4191	31	29	28	17	30	27	38	33	34	39	35	36	36	22	46	35	38	36
29	KNMH 4192	35	27	30	13	28	27	33	33	34	38	35	38	35	31	47	40	41	39
30	KNMH 4194	30	25	33	16	32	27	35	32	34	37	34	39	35	24	46	37	40	37
31	LMH 4119	35	24	30	12	31	27	40	33	34	38	35	38	36	30	44	34	41	38
32	LMH 4219	31	30	30	16	35	28	36	31	35	34	33	41	35	30	47	36	42	38
33	LMH 4319	31	29	28	15	26	25	32	33	33	33	33	37	33	24	48	37	34	35
34	LMH 4419	37	24	32	12	33	28	37	33	37	39	32	41	37	29	48	39	44	40
35	OMH17-19	36	28	35	14	32	29	37	35	35	38	35	39	37	25	46	39	43	38
36	OMH17-24	38	27	34	15	33	29	36	35	36	39	33	35	36	27	46	41	43	39
37	RCRMH 13	34	29	31	14	28	28	33	36	36	38	36	38	36	21	44	37	41	36
38	RCRMH 14	33	27	34	14	29	27	35	34	34	36	37	40	36	22	47	37	44	37
39	VaMH 16008	30	26	29	14	24	25	34	32	33	27	30	37	32	19	47	35	36	35
40	BIO 9544(C)	32	29	37	15	32	29	34	35	35	34	35	39	35	27	45	37	39	37
41	CMH 08-292(C)	34	29	32	17	33	28	35	34	37	32	36	37	35	23	45	37	41	36
42	DHM 121(C)	33	25	29	13	26	26	33	33	37	30	34	38	34	28	46	38	37	37
	L Mean	33.2	27.2	31.2	13.8	29.6	27.0	34.9	33.9	34.1	35.8	33.8	37.5	35.0	25.1	46.1	37.2	39.2	36.9
	CV (%)	9.5	9.5	12.5	20.2	17.6	13.5	8.0	7.5	11.8	14.1	7.7	7.5	9.7	17.9	3.2	7.0	8.9	8.7
	F (Prob)	0.0	0.1	0.0	0.4	0.5	1.0	0.1	0.7	0.0	0.0	0.6	0.1	1.0	0.0	0.1	0.1	0.0	1.0
	CD (5%)	5.2	4.2	6.4	4.6	8.5	2.7	4.5	4.1	6.6	8.2	4.2	4.6	2.2	7.3	2.4	4.2	5.7	2.7
	CD (1%)	6.8	5.6	8.4	6.0	11.2	3.5	6.0	5.5	8.7	10.9	5.6	6.1	2.9	9.7	3.2	5.6	7.6	3.5

Table No. : 3 (Conti...)		Number of Cobs										Ear height (cm)												
S. No.	Entry Name	PZ									All India	CWZ						NEPZ						
		COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE		AMBI	BANS	CHIND	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8245 R	31	36	36	38	37	31	34	42	36	35	113	80	108	75	131	102	110	80	83	106	101	85	95
2	AH 8452	32	36	36	37	36	32	37	38	35	34	118	84	106	92	103	101	113	86	87	107	99	95	97
3	AH1625	30	39	34	35	33	33	35	41	35	34	118	96	106	99	111	105	112	92	89	107	105	95	100
4	AH1634	31	41	36	34	31	30	37	40	35	33	115	100	107	95	110	104	113	94	74	101	93	97	94
5	AH4142	32	37	36	36	34	34	34	37	35	32	104	77	99	84	102	94	106	74	66	97	87	75	84
6	AH4167	30	41	38	36	33	30	35	40	36	34	101	86	111	75	105	97	113	95	78	106	103	95	99
7	BAU-MH-18-2	29	37	35	36	34	30	35	35	34	33	97	77	78	83	68	80	75	55	65	72	80	51	66
8	BAU-MH-18-3	31	38	36	36	32	33	34	39	35	34	101	86	85	71	95	86	94	55	63	82	84	76	75
9	BH 417152	30	38	36	37	35	33	33	37	35	34	112	99	83	84	98	94	101	80	77	93	95	89	89
10	BH 417182	33	34	35	36	34	32	34	39	35	33	112	84	96	75	108	97	112	79	83	100	99	85	94
11	BH 417193	29	36	38	35	34	31	35	38	34	33	113	92	88	85	105	96	113	91	80	100	92	81	92
12	CMH-12-686	32	37	37	37	35	31	35	41	35	35	112	101	107	88	103	101	103	100	79	108	94	101	97
13	CMH-15-012	27	30	34	32	32	29	35	36	32	28	112	97	103	86	90	97	100	75	68	99	94	89	87
14	DH 327	31	37	36	36	35	30	35	39	35	34	104	86	86	77	98	90	101	75	67	93	83	78	83
15	DH 328	32	33	33	36	34	28	36	41	34	34	99	81	79	72	89	85	111	78	73	91	84	71	85
16	EH 3638	29	39	36	35	36	32	36	39	35	35	77	87	104	88	107	92	118	89	75	103	108	76	95
17	HMM 1014	30	31	35	34	35	29	34	36	33	32	102	85	93	71	89	89	105	90	73	103	101	81	92
18	HMM 1019	31	28	33	37	36	31	34	37	33	32	121	89	104	81	106	98	111	114	76	139	88	104	106
19	IMHL-K-19-1	30	35	34	35	37	32	35	40	35	35	102	91	92	81	118	96	96	89	71	106	84	80	88
20	IWH 1407	29	35	34	35	29	32	34	35	33	31	88	85	79	74	90	82	104	78	63	92	80	84	83
21	IYH 1603	30	38	35	33	36	30	34	36	34	32	92	86	82	82	102	89	94	72	65	100	93	67	82
22	JH 18064	29	40	35	34	33	30	35	39	34	34	107	81	110	84	94	94	113	89	81	105	98	92	96
23	JH 18065	29	38	37	38	34	33	37	37	35	35	108	104	113	76	111	103	119	94	86	105	101	101	101
24	JH 18099	33	33	36	39	33	31	33	36	34	34	118	91	116	89	109	105	120	99	93	121	111	91	106
25	JH 32104	33	38	41	39	35	28	37	44	37	35	106	80	89	75	91	89	100	76	73	94	95	82	87
26	KMH 18-42	30	27	36	34	35	32	35	39	33	33	87	79	70	82	92	83	87	64	63	75	82	69	73
27	KMH 18-71	31	33	35	35	36	34	34	33	34	33	94	74	79	82	90	84	93	65	67	88	82	70	78
28	KNMH 4191	30	34	36	35	36	27	35	39	34	33	110	87	116	74	115	103	117	102	87	98	107	83	100
29	KNMH 4192	32	41	35	38	34	35	37	36	36	34	111	87	112	75	86	94	97	75	76	96	88	89	86
30	KNMH 4194	32	33	36	35	35	31	36	37	34	33	102	74	90	89	98	90	95	62	68	94	88	73	80
31	LMH 4119	31	41	37	35	35	32	35	37	35	34	106	72	84	72	89	85	95	66	78	93	90	70	82
32	LMH 4219	30	40	37	37	33	29	34	39	35	34	107	84	94	79	105	93	101	80	74	99	88	71	85
33	LMH 4319	32	36	35	33	32	32	35	38	34	32	111	76	95	75	92	91	97	77	75	92	102	91	88
34	LMH 4419	32	38	39	40	34	32	37	39	36	35	114	84	106	80	111	98	111	84	80	103	103	93	97
35	OMH17-19	31	34	36	32	34	31	35	40	34	34	118	94	119	66	110	102	126	96	83	104	100	93	100
36	OMH17-24	31	36	39	37	34	31	35	41	35	35	99	73	96	87	89	89	90	81	76	92	84	77	84
37	RCRMH 13	31	36	37	33	36	33	35	41	35	34	98	88	81	72	74	84	102	63	72	100	93	71	83
38	RCRMH 14	29	36	35	35	35	31	34	40	34	34	104	80	94	70	96	89	98	83	75	92	94	88	88
39	VaMH 16008	31	33	36	36	34	36	34	34	34	32	109	92	106	87	100	99	99	76	75	91	98	92	88
40	BIO 9544(C)	30	40	37	32	32	32	36	36	34	34	93	84	105	80	98	92	97	73	72	94	94	85	86
41	CMH 08-292(C)	31	34	35	37	32	30	36	38	34	34	117	103	107	89	114	108	122	92	94	116	107	104	106
42	DHM 121(C)	31	33	33	35	34	33	34	35	34	33	101	89	104	74	100	94	99	70	75	105	86	80	87
	L Mean	30.6	35.9	35.9	35.6	34.2	31.3	35.0	38.1	34.6	33.4	105.5	86.3	97.2	80.4	99.8	93.8	104.4	81.1	75.7	99.1	93.8	83.8	89.6
	CV (%)	5.8	10.9	6.5	9.5	6.9	8.7	5.3	7.8	8.0	9.6	10.4	15.0	6.2	11.6	11.9	11.2	7.2	11.8	8.2	11.7	7.1	11.3	9.7
	F (Prob)	0.2	0.0	0.3	0.9	0.2	0.4	0.7	0.0	1.0	1.0	0.0	0.4	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
	CD (5%)	2.9	6.4	3.8	5.5	3.8	4.5	3.0	4.8	1.7	1.1	17.8	21.1	9.8	15.1	19.4	7.7	12.2	15.7	10.1	18.9	10.8	15.5	6.1
	CD (1%)	3.8	8.4	5.0	7.3	5.1	5.9	4.0	6.4	2.2	1.5	23.6	28.1	13.1	20.1	25.8	10.2	16.2	20.8	13.4	25.1	14.3	20.6	8.0

Table No. : 3 (Conti...) **Ear height (cm)**

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8245 R	139	106	125	134	126	106	71	103	89	53	92	97	125	92	101
2	AH 8452	128	112	119	127	122	126	77	102	85	51	104	90	131	95	101
3	AH1625	130	105	121	131	122	110	72	103	97	56	97	96	134	95	103
4	AH1634	131	108	132	122	123	120	84	86	83	57	91	104	121	93	101
5	AH4142	131	96	127	128	121	108	65	87	87	43	85	83	118	85	93
6	AH4167	130	107	131	133	125	109	74	99	87	54	100	96	132	94	101
7	BAU-MH-18-2	113	62	84	87	87	86	55	73	94	47	72	63	105	75	76
8	BAU-MH-18-3	105	79	111	98	99	97	68	89	79	41	88	66	114	79	83
9	BH 417152	121	120	123	120	120	106	83	83	99	40	91	87	120	90	96
10	BH 417182	135	104	123	129	122	112	73	103	97	46	96	86	129	93	99
11	BH 417193	130	91	114	117	114	121	72	100	82	46	90	95	125	92	97
12	CMH-12-686	117	109	131	133	124	102	92	99	92	52	104	99	122	95	102
13	CMH-15-012	140	114	119	122	123	112	78	92	68	61	101	92	121	91	97
14	DH 327	127	87	121	120	115	97	75	96	90	46	85	97	122	89	92
15	DH 328	118	98	109	118	110	103	59	100	95	42	74	78	107	82	88
16	EH 3638	134	108	117	131	123	111	80	97	94	42	101	105	122	94	99
17	HMM 1014	129	111	138	123	125	96	72	92	77	55	92	89	122	87	95
18	HMM 1019	151	131	145	140	141	106	77	80	81	47	120	86	119	90	105
19	IMHL-K-19-1	121	103	125	132	120	108	74	88	92	54	91	71	109	87	95
20	IWH 1407	136	98	129	109	118	91	67	90	83	44	87	75	106	80	88
21	IYH 1603	128	86	109	111	109	98	71	85	90	48	85	85	110	84	89
22	JH 18064	128	102	124	122	120	108	69	98	94	56	86	97	129	92	98
23	JH 18065	140	117	130	134	130	118	89	89	81	55	104	101	124	94	104
24	JH 18099	145	135	133	137	137	132	86	99	87	61	115	101	135	102	110
25	JH 32104	131	102	117	120	117	108	66	90	80	46	99	87	124	88	93
26	KMH 18-42	112	65	107	102	97	100	53	97	90	30	89	62	103	78	81
27	KMH 18-71	111	72	99	108	97	100	57	71	93	44	83	79	111	79	83
28	KNMH 4191	133	113	127	139	127	115	80	95	89	64	102	93	136	97	104
29	KNMH 4192	134	107	110	120	118	99	70	93	91	37	93	86	120	86	93
30	KNMH 4194	123	100	115	111	111	98	72	77	81	42	91	94	120	84	89
31	LMH 4119	125	102	114	103	111	107	77	85	81	57	95	79	111	86	89
32	LMH 4219	126	106	121	118	118	107	55	95	86	41	93	75	119	85	92
33	LMH 4319	127	96	128	116	117	117	75	91	77	51	100	89	125	90	94
34	LMH 4419	137	117	122	133	127	123	83	96	101	46	95	102	141	99	103
35	OMH17-19	139	114	132	129	129	125	89	100	89	55	112	85	136	99	105
36	OMH17-24	121	85	114	119	109	104	69	92	82	60	89	82	118	87	90
37	RCRMH 13	121	99	129	119	117	99	66	91	67	49	88	73	109	80	88
38	RCRMH 14	121	99	138	128	122	100	73	91	90	53	96	71	108	85	93
39	VaMH 16008	126	115	122	115	119	114	77	87	90	50	106	85	115	90	97
40	BIO 9544(C)	120	97	118	118	113	98	77	81	80	54	85	74	109	82	91
41	CMH 08-292(C)	151	123	133	144	137	133	84	102	88	62	103	109	145	104	111
42	DHM 121(C)	119	79	106	114	105	111	75	86	95	52	97	79	112	88	92
	L Mean	128.2	101.9	121.2	121.8	118.3	108.1	73.3	91.6	87.0	49.8	94.4	86.7	120.6	88.9	95.3
	CV (%)	8.5	10.8	8.5	5.7	8.4	7.4	9.8	10.8	13.4	17.4	10.2	14.4	7.2	10.9	10.1
	F (Prob)	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	1.0	1.0
	CD (5%)	17.7	18.0	16.8	11.4	8.5	13.1	11.7	16.1	19.0	14.1	15.7	20.3	14.1	5.8	3.4
	CD (1%)	23.5	23.9	22.3	15.1	11.2	17.4	15.5	21.4	25.2	18.8	20.9	27.0	18.8	7.7	4.5

Table No. : 3 (Conti...)		Final Plant Stand (000/ha)																
S. No.	Entry Name	CWZ						NEPZ						NWPZ				
		AMBI	BANS	CHIND	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	SABO	ZONE	IARI	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8245 R	82	60	80	62	74	72	75	70	74	82	82	77	62	68	78	64	67
2	AH 8452	81	58	81	64	73	71	76	70	76	87	78	77	54	68	78	69	68
3	AH1625	82	63	71	69	72	72	74	70	80	86	79	76	53	67	79	68	66
4	AH1634	72	60	60	63	70	65	69	72	74	59	77	71	61	67	73	64	67
5	AH4142	76	57	69	65	69	68	70	69	60	60	78	68	45	67	78	57	62
6	AH4167	72	59	61	55	68	64	77	74	75	73	80	76	49	68	75	62	64
7	BAU-MH-18-2	65	53	77	58	65	64	73	71	80	80	77	75	47	67	79	58	63
8	BAU-MH-18-3	71	56	82	62	74	68	74	71	78	78	74	75	53	68	77	65	66
9	BH 417152	71	63	83	53	76	69	71	74	70	79	74	74	54	68	77	69	67
10	BH 417182	75	56	67	65	73	67	71	71	75	72	75	72	54	68	76	58	64
11	BH 417193	74	57	60	68	72	66	78	71	78	71	72	74	54	66	79	64	66
12	CMH-12-686	82	60	80	62	75	72	72	78	79	82	82	79	46	67	78	66	65
13	CMH-15-012	63	56	36	62	73	57	70	74	36	46	65	58	36	67	67	40	53
14	DH 327	73	59	68	69	67	67	72	72	77	85	82	78	67	69	77	66	69
15	DH 328	78	57	65	75	75	70	76	70	76	77	80	75	57	68	79	66	67
16	EH 3638	77	62	79	74	69	72	74	70	74	76	81	76	56	68	81	67	68
17	HMM 1014	60	59	76	68	71	66	73	67	77	76	65	71	50	70	79	59	64
18	HMM 1019	64	52	77	68	66	65	69	71	71	78	78	74	45	67	71	57	60
19	IMHL-K-19-1	74	49	77	57	70	65	79	75	74	84	78	79	67	67	78	70	70
20	IWH 1407	66	52	53	54	64	57	65	65	74	71	73	70	52	67	70	49	59
21	IYH 1603	58	51	71	74	78	67	72	66	77	72	78	73	45	67	76	66	63
22	JH 18064	77	61	79	56	70	69	68	69	84	86	77	76	47	67	77	65	64
23	JH 18065	79	56	74	75	74	72	71	76	74	76	79	76	55	67	81	69	69
24	JH 18099	76	60	72	70	74	71	78	68	75	73	82	75	67	68	73	67	69
25	JH 32104	80	59	78	67	68	71	73	70	74	78	73	73	56	68	78	69	67
26	KMH 18-42	76	54	60	71	75	68	76	67	78	78	78	76	56	67	77	64	66
27	KMH 18-71	65	54	68	72	66	65	74	68	75	79	81	76	49	68	77	62	63
28	KNMH 4191	70	60	68	78	66	68	76	68	78	80	73	75	49	68	78	64	65
29	KNMH 4192	75	59	61	51	70	63	68	69	77	80	78	74	66	67	75	66	67
30	KNMH 4194	69	56	71	71	76	69	76	67	73	76	81	74	50	68	75	66	64
31	LMH 4119	73	57	74	57	69	67	81	69	74	77	80	76	62	67	72	66	68
32	LMH 4219	68	63	77	72	74	70	73	66	75	71	85	74	65	69	78	68	69
33	LMH 4319	67	61	59	67	72	64	69	69	75	68	74	71	52	68	78	56	64
34	LMH 4419	78	49	73	60	73	67	78	68	81	82	83	78	59	68	80	69	69
35	OMH17-19	75	62	74	67	77	70	75	73	78	80	79	77	55	67	79	68	67
36	OMH17-24	82	57	77	71	73	72	77	72	77	82	72	76	56	67	80	70	67
37	RCRMH 13	72	66	74	71	69	71	71	75	80	80	79	77	46	66	76	65	64
38	RCRMH 14	70	55	77	66	73	68	74	71	77	75	81	76	48	66	76	70	66
39	VaMH 16008	64	60	64	59	70	64	70	66	74	56	76	68	41	66	74	60	61
40	BIO 9544 (C)	67	65	73	68	70	69	72	72	78	67	79	75	55	67	73	66	66
41	CMH 08-292 (C)	74	58	73	72	68	68	75	71	77	69	77	74	51	67	73	66	64
42	DHM 121 (C)	71	54	65	67	69	66	70	68	80	63	80	72	61	67	75	61	65
	L Mean	72.5	57.8	70.6	65.6	71.2	67.5	73.2	70.4	75.0	75.0	77.6	74.2	53.6	67.4	76.4	63.8	65.3
	CV (%)	9.3	10.8	9.5	12.6	6.1	9.7	5.4	7.4	11.6	11.2	7.2	8.9	17.1	1.7	4.5	7.7	8.5
	F (Prob)	0.0	0.4	0.0	0.1	0.0	1.0	0.0	0.8	0.0	0.0	0.1	1.0	0.1	0.3	0.0	0.0	1.0
	CD (5%)	11.0	10.1	11.0	13.5	7.1	4.9	6.5	8.4	14.2	13.7	9.1	4.8	14.9	1.8	5.7	8.0	4.6
	CD (1%)	14.6	13.5	14.6	17.9	9.4	6.4	8.6	11.2	18.9	18.2	12.1	6.3	19.8	2.4	7.5	10.7	6.0

Table No. : 3 (Conti...)		Final Plant Stand (000/ha)										Moisture (%)												
		PZ									All	CWZ						NEPZ						
S. No.	Entry Name	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	India	AMBI	BANS	CHIND	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8245 R	66	76	75	80	78	63	61	67	71	72	17.0	15.6	14.0	18.4	22.2	17.6	23.6	25.2	19.9	25.8	31.1	28.3	25.7
2	AH 8452	68	72	76	76	80	71	65	64	71	72	15.3	16.3	14.3	19.9	22.9	17.6	22.9	25.0	19.1	23.4	30.7	28.7	25.0
3	AH1625	60	78	71	74	69	72	63	64	69	71	15.9	17.0	15.0	17.9	21.9	17.5	22.4	24.6	19.9	23.0	30.9	27.9	24.8
4	AH1634	61	82	76	72	67	64	65	66	69	68	15.5	16.4	14.4	16.5	22.3	17.0	23.1	26.7	19.8	22.4	31.0	28.2	25.4
5	AH4142	66	76	75	75	71	73	61	61	70	67	16.2	16.0	16.2	17.8	21.5	17.6	22.0	25.2	19.3	26.7	31.7	28.3	25.5
6	AH4167	61	81	79	77	69	66	63	58	70	69	14.7	16.6	14.5	20.3	23.2	17.8	24.6	23.9	19.2	23.5	32.2	28.7	25.2
7	BAU-MH-18-2	61	74	72	75	73	63	63	61	68	68	13.3	15.7	13.4	18.5	21.4	16.6	21.2	22.7	18.8	19.8	31.7	22.1	22.7
8	BAU-MH-18-3	64	77	75	74	70	68	60	64	69	70	14.8	15.9	13.4	18.9	23.5	17.1	21.3	22.9	19.4	21.2	30.9	28.2	24.0
9	BH 417152	62	77	75	77	74	66	59	62	69	70	14.9	16.0	15.8	18.0	23.1	17.5	24.3	25.9	19.5	22.1	32.0	29.0	25.5
10	BH 417182	66	70	73	75	72	63	61	62	69	68	14.9	16.5	15.7	15.7	22.8	16.9	22.9	26.1	20.0	23.3	31.5	25.9	25.0
11	BH 417193	66	74	78	72	73	68	60	62	69	69	14.2	16.9	13.6	17.7	20.2	16.6	23.0	24.9	19.4	22.5	31.7	27.6	24.5
12	CMH-12-686	63	77	77	78	76	71	61	65	71	72	16.2	16.4	16.5	17.4	21.2	17.5	24.9	26.9	20.0	23.9	31.7	26.9	25.6
13	CMH-15-012	56	61	72	65	74	67	62	63	65	60	14.3	16.7	17.5	17.9	22.2	17.7	23.8	25.0	19.2	23.8	31.2	25.1	24.9
14	DH 327	64	77	74	75	74	66	62	61	69	71	14.1	16.3	15.7	19.9	21.2	17.5	22.3	23.0	19.3	22.1	30.6	28.8	24.2
15	DH 328	66	69	69	76	74	62	65	63	68	70	15.3	16.1	14.7	20.5	22.4	17.6	24.0	23.2	19.6	26.2	31.2	29.1	25.7
16	EH 3638	62	80	75	75	75	70	64	64	71	72	15.1	15.8	15.8	18.4	22.8	17.6	23.2	25.7	19.9	22.5	32.3	29.6	25.4
17	HMM 1014	62	64	73	71	74	60	61	59	66	67	13.7	15.8	13.2	17.4	22.6	16.4	21.3	23.4	19.9	20.4	31.1	28.4	24.2
18	HMM 1019	63	58	69	76	79	62	61	61	66	66	14.1	15.6	12.8	18.3	23.1	16.8	21.4	22.8	18.3	22.7	31.9	20.0	22.9
19	IMHL-K-19-1	60	73	72	74	80	69	63	64	69	71	14.3	15.9	16.5	17.2	23.1	17.4	24.2	24.5	19.1	27.0	30.6	28.9	25.9
20	IWH 1407	63	73	70	73	65	68	61	64	67	64	14.8	15.5	12.9	20.2	20.7	16.8	19.4	23.2	18.5	19.9	31.1	27.3	23.3
21	IYH 1603	63	77	73	69	77	64	61	63	68	68	13.0	15.3	13.8	19.6	21.0	16.8	21.2	22.7	19.7	21.6	31.6	26.2	23.7
22	JH 18064	59	81	75	71	69	61	62	61	67	69	16.1	16.4	16.7	19.9	20.7	18.1	24.5	26.1	19.6	23.7	31.7	27.5	25.3
23	JH 18065	63	79	77	79	74	71	66	64	71	72	19.1	16.5	18.3	20.9	23.1	19.5	27.2	26.3	19.9	24.7	31.3	29.3	26.6
24	JH 18099	68	69	75	81	72	74	59	57	69	71	15.1	15.5	14.8	19.4	22.6	17.4	23.0	23.9	18.3	21.7	31.4	27.3	24.3
25	JH 32104	66	78	84	81	74	63	66	64	72	71	17.9	16.5	15.2	20.4	23.2	18.7	22.8	25.4	18.6	22.8	31.7	29.2	25.1
26	KMH 18-42	63	54	76	72	75	67	62	64	66	69	17.0	15.9	12.9	17.9	20.7	17.0	18.4	22.8	19.8	17.7	30.7	24.1	22.1
27	KMH 18-71	66	67	72	75	77	71	61	57	68	68	13.8	15.5	12.8	16.7	19.4	15.7	20.4	22.2	18.8	20.1	31.4	24.2	22.7
28	KNMH 4191	62	70	75	74	76	65	63	62	68	69	14.6	16.5	13.5	20.6	21.8	17.3	21.7	24.6	19.4	22.2	30.0	23.5	23.7
29	KNMH 4192	65	84	74	78	74	72	66	60	71	70	15.3	15.9	15.3	18.0	22.3	17.4	23.9	25.3	19.8	24.5	31.8	28.8	25.6
30	KNMH 4194	66	69	76	74	74	64	64	62	68	69	14.8	16.0	14.6	20.5	22.6	17.8	21.1	23.1	19.6	21.5	30.9	28.2	24.1
31	LMH 4119	65	81	77	74	76	77	63	64	72	71	13.3	16.1	13.0	17.0	23.1	16.7	25.0	23.3	19.7	22.4	31.5	26.4	24.9
32	LMH 4219	63	79	76	77	72	65	60	60	69	71	15.2	16.5	14.4	17.2	21.7	16.8	22.1	23.4	19.0	21.1	31.1	26.2	23.7
33	LMH 4319	64	74	73	69	71	62	62	58	67	67	14.6	15.5	15.4	18.8	22.5	17.2	25.7	22.7	19.7	27.5	31.5	27.3	25.8
34	LMH 4419	64	76	81	84	71	70	66	63	72	72	15.0	16.7	16.4	16.7	23.0	17.5	22.2	25.2	19.9	23.0	30.7	27.3	24.8
35	OMH17-19	62	70	75	69	73	65	62	61	67	70	16.9	16.7	13.8	16.1	21.5	17.0	21.4	26.3	19.4	23.1	31.8	28.9	25.1
36	OMH17-24	63	73	82	76	72	65	63	66	70	71	17.1	15.3	13.1	19.7	21.0	17.3	20.8	22.6	19.6	23.8	31.3	24.8	23.9
37	RCRMH 13	64	74	78	70	76	69	62	63	70	71	13.3	16.1	14.9	20.2	22.8	17.5	23.7	23.4	19.7	22.6	30.4	30.0	25.0
38	RCRMH 14	60	74	74	74	75	70	62	62	69	70	14.9	16.3	15.8	18.6	22.4	17.4	23.1	24.1	19.3	21.1	31.3	28.7	24.7
39	VaMH 16008	61	67	74	74	72	69	61	58	67	66	13.7	16.6	14.9	19.5	23.1	17.7	21.7	24.7	18.8	21.9	30.8	27.9	24.4
40	BIO 9544 (C)	61	83	78	68	70	64	65	60	68	69	17.4	15.6	16.3	17.8	23.3	18.3	23.5	25.1	19.9	25.1	31.5	29.3	25.7
41	CMH 08-292 (C)	64	71	73	78	69	64	63	62	68	69	14.3	16.5	16.0	17.5	22.3	17.3	24.8	26.6	19.3	22.3	31.8	27.6	25.5
42	DHM 121 (C)	62	69	69	73	73	75	61	58	67	68	15.2	16.5	14.8	19.7	20.9	17.3	24.3	24.1	20.1	24.8	31.4	27.7	25.1
	L Mean	63.2	73.5	74.8	74.5	73.3	67.1	62.4	62.0	68.9	69.1	15.2	16.1	14.8	18.6	22.1	17.4	22.8	24.4	19.4	22.9	31.3	27.3	24.3
	CV (%)	6.3	9.7	6.4	8.7	6.0	9.4	5.2	5.4	7.5	8.6	9.2	2.4	7.1	4.9	0.0	5.2	3.0	1.8	1.4	4.3	1.9	7.0	4.1
	F (Prob)	0.6	0.0	0.2	0.8	0.1	0.5	0.6	0.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
	CD (5%)	6.5	11.7	7.8	10.6	7.2	10.3	5.3	5.5	3.1	2.1	2.3	0.6	1.7	1.5	0.0	0.7	1.1	0.7	0.4	1.6	1.0	3.1	0.7
	CD (1%)	8.6	15.5	10.4	14.0	9.5	13.6	7.0	7.3	4.1	2.8	3.0	0.9	2.3	2.0	0.0	0.9	1.5	1.0	0.6	2.1	1.3	4.1	0.9

Table No. : 3 (Conti...)		Moisture (%)														
S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8245 R	29.9	22.2	20.1	25.6	24.4	16.6	14.2	21.5	17.5	18.3	15.5	21.2	19.1	18.1	21.0
2	AH 8452	25.1	23.6	20.5	28.0	24.6	16.3	13.9	22.5	19.2	17.0	15.4	18.3	18.5	17.7	20.8
3	AH1625	24.1	23.0	20.4	26.2	23.5	16.1	10.8	21.6	18.3	16.0	14.9	18.5	18.6	16.9	20.2
4	AH1634	24.2	22.7	19.2	27.5	23.5	16.4	12.8	22.4	18.0	16.7	14.4	17.1	18.7	17.0	20.3
5	AH4142	24.4	22.9	20.6	27.1	23.7	15.7	13.8	21.9	18.6	18.1	15.9	22.8	18.6	18.2	20.9
6	AH4167	26.4	22.6	19.7	26.0	23.5	17.2	11.2	21.5	18.0	16.4	14.6	19.8	18.3	17.1	20.5
7	BAU-MH-18-2	24.5	22.7	19.4	27.0	23.4	15.4	10.5	20.2	18.1	17.7	13.4	16.8	19.2	16.5	19.3
8	BAU-MH-18-3	23.3	23.1	21.9	24.8	23.2	15.8	11.8	20.5	18.5	17.0	14.8	20.2	18.8	17.1	20.0
9	BH 417152	26.7	23.2	22.7	28.7	25.2	16.7	10.6	20.6	19.6	15.6	14.6	18.8	18.8	16.9	20.7
10	BH 417182	22.5	22.8	19.3	25.1	22.3	16.8	12.2	18.6	19.9	16.6	15.0	19.1	18.8	17.2	20.0
11	BH 417193	25.7	21.8	19.7	26.2	23.3	16.2	12.3	23.5	17.8	16.4	15.7	18.4	18.7	17.2	20.1
12	CMH-12-686	26.1	23.7	18.7	28.3	24.1	17.0	14.4	22.1	19.0	17.6	15.8	21.1	18.6	18.2	21.0
13	CMH-15-012	25.5	22.9	20.7	28.8	24.5	16.1	11.2	21.0	17.6	17.2	15.8	20.7	19.2	17.4	20.7
14	DH 327	26.1	22.2	19.5	23.8	22.8	16.2	9.8	19.5	17.5	17.0	13.6	14.6	18.3	15.8	19.6
15	DH 328	26.9	22.9	21.0	28.2	24.6	16.7	9.5	18.3	19.1	16.8	15.4	16.4	18.2	16.3	20.5
16	EH 3638	26.0	22.1	20.2	28.3	24.0	15.5	16.1	21.8	18.3	17.7	14.3	19.1	19.0	17.7	20.8
17	HMM 1014	22.4	23.5	20.0	23.9	22.3	15.7	11.1	20.2	17.7	15.9	14.0	16.6	18.4	16.2	19.4
18	HMM 1019	22.7	23.7	18.4	23.7	22.1	15.3	10.1	18.8	18.0	15.3	14.8	15.8	18.7	15.8	19.0
19	IMHL-K-19-1	28.5	22.5	22.4	30.0	25.8	16.8	12.7	21.3	18.0	15.8	16.1	17.5	18.8	17.2	21.0
20	IWH 1407	21.9	23.7	18.9	25.8	22.6	15.5	8.8	18.1	19.2	15.4	13.8	16.4	18.1	15.6	19.1
21	IYH 1603	24.9	23.6	18.6	20.5	21.9	15.5	10.7	20.7	17.7	16.5	14.1	15.1	18.8	16.1	19.2
22	JH 18064	28.1	23.8	20.9	24.7	24.3	16.7	11.3	22.7	17.7	16.1	14.9	16.9	18.7	16.9	20.6
23	JH 18065	24.7	23.2	20.0	30.2	24.6	15.6	15.2	20.2	18.8	17.0	16.1	20.8	18.7	17.8	21.6
24	JH 18099	24.1	23.0	20.1	23.5	22.8	15.8	8.1	21.0	18.6	16.3	14.3	17.7	18.7	16.4	19.8
25	JH 32104	25.6	23.3	20.4	24.9	23.5	16.3	14.5	22.8	19.4	16.9	13.7	18.4	18.6	17.6	20.8
26	KMH 18-42	19.5	21.7	18.5	16.9	19.0	16.1	8.8	22.6	19.0	15.2	14.0	15.6	18.3	16.1	18.4
27	KMH 18-71	21.5	22.0	18.9	21.0	21.0	16.3	8.9	20.2	19.4	14.7	14.2	16.6	18.3	16.0	18.6
28	KNMH 4191	24.6	22.0	19.0	24.1	22.5	15.9	11.3	19.8	17.4	17.5	14.2	18.2	18.5	16.7	19.7
29	KNMH 4192	26.9	23.4	17.7	27.5	23.9	16.6	12.9	22.6	17.7	16.1	15.7	20.4	19.3	17.6	20.7
30	KNMH 4194	24.0	22.3	19.8	20.5	21.7	16.5	11.4	22.1	17.7	16.7	14.8	17.0	18.8	16.8	19.8
31	LMH 4119	28.1	22.6	20.4	22.7	23.7	16.2	12.0	20.5	18.3	17.0	14.5	21.8	18.9	17.5	20.3
32	LMH 4219	24.2	24.1	18.8	20.8	21.8	16.2	8.0	21.4	19.6	16.6	15.2	18.0	18.6	16.6	19.4
33	LMH 4319	26.6	23.6	21.1	30.6	25.6	16.3	12.4	21.2	17.9	17.2	15.0	17.2	18.5	17.0	20.8
34	LMH 4419	24.1	22.6	20.5	26.2	23.1	16.3	13.8	20.2	19.0	15.9	14.3	16.6	18.5	16.9	20.2
35	OMH17-19	26.0	22.9	21.3	23.2	23.4	16.9	12.2	19.5	17.3	17.2	14.2	18.4	18.5	16.7	20.1
36	OMH17-24	25.3	22.0	19.8	27.5	23.8	16.3	10.8	22.0	18.2	16.9	14.6	16.6	18.9	16.7	20.0
37	RCRMH 13	25.7	23.4	19.2	28.1	24.1	17.2	13.4	21.7	18.3	15.7	15.2	20.0	18.6	17.5	20.6
38	RCRMH 14	25.6	23.4	22.1	29.3	25.2	15.9	10.3	21.7	17.8	15.7	15.1	18.1	18.4	16.7	20.4
39	VaMH 16008	26.6	22.4	19.3	28.6	24.2	16.7	12.4	19.7	17.4	17.1	16.0	18.5	19.1	17.2	20.4
40	BIO 9544 (C)	26.4	21.8	18.9	26.3	23.2	16.4	12.4	22.1	17.1	16.7	15.5	19.9	19.7	17.4	20.8
41	CMH 08-292 (C)	25.6	22.8	20.6	24.9	23.8	16.7	10.5	22.0	20.2	16.2	15.0	16.1	18.7	17.0	20.4
42	DHM 121 (C)	23.9	22.6	19.5	29.1	23.8	15.8	10.0	22.2	19.4	17.7	15.7	19.4	19.0	17.4	20.5
	L Mean	25.1	22.9	20.0	25.8	23.4	16.2	11.6	21.1	18.4	16.6	14.9	18.3	18.7	17.0	20.0
	CV (%)	9.5	4.5	5.2	5.6	6.7	2.6	11.8	9.7	6.3	3.2	2.3	0.0	2.0	5.9	5.5
	F (Prob)	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	3.9	1.7	1.7	2.3	1.3	0.7	2.2	3.3	1.9	0.9	0.6	0.0	0.6	0.6	0.4
	CD (1%)	5.2	2.2	2.3	3.1	1.7	0.9	3.0	4.4	2.5	1.1	0.7	0.0	0.8	0.8	0.5

Table No. : 3 (Conti...) **Days to 75% Dry husk**

S. No.	Entry Name	CWZ						NEPZ							NWPZ				
		AMBI	BANS	CHIND	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE	IARI	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8245 R	95	87	98	90	93	93	94	86	87	92	85	91	89	96	91	96	102	96
2	AH 8452	93	88	98	88	90	91	94	89	88	89	85	91	89	95	88	96	103	96
3	AH1625	93	87	95	90	91	91	90	89	89	87	86	89	88	94	88	95	104	95
4	AH1634	94	87	96	87	90	91	92	88	90	91	88	89	90	91	89	98	103	95
5	AH4142	93	86	95	90	91	91	92	89	90	92	85	93	90	92	88	98	105	96
6	AH4167	90	84	95	89	91	90	92	88	89	88	86	88	88	92	88	95	100	94
7	BAU-MH-18-2	93	87	100	89	90	92	90	88	88	86	86	92	89	96	91	95	104	96
8	BAU-MH-18-3	93	90	94	89	93	92	89	86	88	87	87	92	88	94	88	94	102	94
9	BH 417152	91	84	97	86	92	90	90	87	90	92	85	88	89	94	86	97	102	94
10	BH 417182	92	84	95	92	92	91	90	86	90	89	86	89	88	91	88	96	102	95
11	BH 417193	92	85	93	90	91	90	90	86	90	89	85	87	88	93	90	96	104	96
12	CMH-12-686	91	88	96	90	90	91	90	89	88	88	87	89	88	92	90	95	101	94
13	CMH-15-012	92	87	99	90	92	91	92	89	92	92	89	89	90	97	90	98	102	97
14	DH 327	91	85	93	89	90	90	91	87	88	90	85	87	88	94	86	95	100	93
15	DH 328	92	87	96	91	90	91	93	87	91	91	87	92	90	93	87	98	101	95
16	EH 3638	92	86	96	89	91	91	93	89	90	92	86	90	90	95	89	98	102	95
17	HMM 1014	90	87	90	88	89	89	87	88	89	89	87	88	88	96	90	95	101	96
18	HMM 1019	92	85	96	90	91	91	91	88	88	94	87	90	90	93	89	98	101	95
19	IMHL-K-19-1	92	87	96	88	91	91	93	87	90	93	87	93	91	96	91	97	102	96
20	IWH 1407	88	87	90	88	88	89	84	85	89	85	86	83	85	89	85	95	101	92
21	IYH 1603	90	86	90	90	90	89	90	86	87	89	85	85	87	91	86	92	99	92
22	JH 18064	92	85	95	92	92	91	94	88	93	94	86	91	91	93	87	98	103	94
23	JH 18065	93	89	99	91	93	93	91	90	89	93	88	90	90	94	90	99	104	97
24	JH 18099	91	85	94	89	90	90	89	89	89	89	85	90	88	95	90	94	101	95
25	JH 32104	92	84	92	87	92	89	91	87	86	88	86	89	88	86	88	98	103	94
26	KMH 18-42	89	87	93	89	89	89	83	84	87	85	86	83	85	91	85	92	99	91
27	KMH 18-71	90	88	90	88	91	89	84	84	88	86	85	86	86	88	87	94	98	92
28	KNMH 4191	92	83	94	91	89	90	88	88	90	87	86	87	88	93	87	95	103	95
29	KNMH 4192	92	87	92	90	93	91	90	87	89	90	88	89	89	94	89	95	103	95
30	KNMH 4194	91	87	94	89	89	90	90	86	87	87	86	89	87	90	87	92	102	94
31	LMH 4119	91	84	96	90	91	91	92	86	89	90	85	90	89	97	87	94	101	95
32	LMH 4219	92	84	94	89	91	90	90	87	89	90	85	91	89	95	85	97	101	94
33	LMH 4319	95	90	97	90	95	93	94	91	88	95	88	92	91	96	90	99	106	98
34	LMH 4419	93	85	98	90	93	92	94	89	89	93	87	93	91	94	90	99	103	96
35	OMH17-19	92	84	94	90	89	90	91	88	90	88	86	90	89	95	92	95	103	96
36	OMH17-24	94	87	94	89	91	91	91	89	90	91	86	91	90	93	87	99	102	95
37	RCRMH 13	91	88	95	89	93	91	92	87	90	90	85	91	89	97	89	98	103	97
38	RCRMH 14	89	65	98	87	92	86	93	88	88	89	84	89	89	91	86	98	103	94
39	VaMH 16008	92	85	97	90	90	91	90	89	89	92	86	89	89	92	89	95	102	94
40	BIO 9544 (C)	97	87	95	89	93	92	94	89	89	95	88	89	91	92	90	99	104	96
41	CMH 08-292 (C)	92	84	96	92	90	91	92	88	90	88	86	90	89	92	88	94	102	95
42	DHM 121 (C)	93	87	99	89	92	92	92	88	91	94	87	92	90	94	90	97	105	97
	L Mean	92.0	85.7	95.1	89.3	91.0	90.6	90.8	87.6	89.0	89.9	86.1	89.4	88.8	93.2	88.4	96.2	102.2	95.0
	CV (%)	1.6	6.6	2.3	3.4	1.5	3.5	1.9	1.8	1.9	1.8	1.5	2.2	1.9	3.6	2.6	1.5	1.5	2.4
	F (Prob)	0.0	0.4	0.0	1.0	0.0	1.0	0.0	0.0	0.1	0.0	0.0	0.0	1.0	0.2	0.0	0.0	0.0	1.0
	CD (5%)	2.4	9.3	3.6	5.0	2.2	2.3	2.8	2.6	2.8	2.7	2.1	3.2	1.2	5.5	3.8	2.3	2.4	1.9
	CD (1%)	3.2	12.3	4.8	6.6	2.9	3.0	3.7	3.4	3.7	3.6	2.8	4.2	1.5	7.3	5.0	3.1	3.2	2.5

Table No. : 3 (Conti...)		Days to 75% Dry husk										Days to 50% Anthesis												
		PZ									All	CWZ						NEPZ						
S. No.	Entry Name	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	India	AMBI	BANS	CHIND	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8245 R	96	103	100	99	101	92	84	96	96	94	53	53	58	53	51	54	58	58	49	55	46	55	54
2	AH 8452	94	104	100	100	100	93	85	95	96	93	50	53	57	52	51	53	57	60	49	53	46	54	53
3	AH1625	95	101	98	99	104	97	86	96	97	93	49	50	56	54	51	52	57	60	50	53	47	53	53
4	AH1634	96	101	101	98	105	96	84	93	97	93	50	51	57	49	51	52	56	59	50	53	47	53	53
5	AH4142	95	101	99	100	105	99	84	94	97	94	49	52	57	52	53	52	56	59	51	53	46	54	53
6	AH4167	93	101	100	100	101	90	84	94	95	92	48	51	56	52	51	51	54	59	50	52	46	51	52
7	BAU-MH-18-2	97	100	100	99	106	92	86	97	97	94	50	54	58	51	52	53	57	60	49	53	47	54	53
8	BAU-MH-18-3	94	104	98	99	104	96	84	95	97	93	51	54	58	51	52	53	55	56	50	51	46	54	52
9	BH 417152	95	102	95	98	102	98	84	97	96	93	47	51	55	48	51	50	56	58	49	53	47	52	52
10	BH 417182	94	103	97	99	99	92	83	96	95	92	49	50	55	52	51	51	54	55	49	50	46	52	51
11	BH 417193	95	99	99	99	100	95	82	95	95	92	48	50	54	52	51	51	55	55	50	51	45	51	51
12	CMH-12-686	95	102	101	99	103	96	84	94	97	93	48	52	57	53	50	52	56	61	48	52	46	52	52
13	CMH-15-012	96	103	99	99	108	103	86	102	99	95	49	52	60	53	52	53	57	60	51	54	48	53	54
14	DH 327	93	100	98	98	101	90	83	93	95	92	47	50	53	53	52	51	55	55	48	50	45	53	51
15	DH 328	94	101	99	99	99	96	82	93	96	93	48	52	55	53	51	52	55	57	49	51	46	54	52
16	EH 3638	94	104	98	100	104	93	84	99	97	94	49	51	57	50	52	52	57	59	48	53	46	54	53
17	HMM 1014	92	98	98	98	98	90	83	91	93	91	47	53	54	52	51	51	57	57	49	51	46	50	52
18	HMM 1019	94	107	98	99	98	98	85	95	97	93	50	52	60	51	51	53	59	57	51	57	46	52	54
19	IMHL-K-19-1	96	103	100	99	103	99	85	96	98	94	50	54	57	52	51	53	58	57	49	54	47	55	53
20	IWH 1407	89	100	94	99	95	92	81	88	92	90	43	52	52	52	50	50	51	54	50	45	45	46	49
21	IYH 1603	90	96	97	100	96	91	81	91	93	90	44	51	53	53	51	50	52	55	49	47	45	48	49
22	JH 18064	94	100	99	100	99	98	84	94	96	93	48	50	56	55	51	52	56	56	50	52	45	53	52
23	JH 18065	94	104	99	99	103	101	86	94	98	95	48	51	57	53	51	52	57	61	48	53	47	55	54
24	JH 18099	95	103	98	99	105	91	84	96	96	93	47	51	56	52	52	52	55	59	50	52	46	52	52
25	JH 32104	95	101	98	98	104	93	84	95	96	92	49	51	55	52	51	51	56	57	50	53	45	52	52
26	KMH 18-42	90	100	101	100	96	91	81	89	93	90	45	52	52	51	51	50	49	54	49	45	45	47	48
27	KMH 18-71	90	98	96	101	91	101	81	91	94	90	45	53	52	51	50	50	50	53	49	44	45	47	48
28	KNMH 4191	94	104	98	100	107	92	83	95	97	92	48	50	56	54	52	52	55	57	49	54	46	51	52
29	KNMH 4192	96	103	100	100	102	95	84	99	98	93	48	52	56	53	52	52	56	56	48	53	47	52	52
30	KNMH 4194	93	99	100	98	103	92	83	93	95	92	47	52	55	54	52	52	55	57	48	50	45	52	51
31	LMH 4119	94	101	99	100	101	93	85	95	96	93	48	51	56	53	51	52	56	55	50	51	46	51	52
32	LMH 4219	95	104	99	99	100	96	84	94	96	93	51	50	56	53	52	52	55	57	50	50	46	53	52
33	LMH 4319	96	105	101	101	106	100	87	96	99	96	51	53	58	52	51	53	59	61	50	55	47	55	54
34	LMH 4419	96	103	99	98	104	100	85	96	97	94	49	52	56	52	51	52	58	61	51	52	47	56	54
35	OMH17-19	95	106	98	99	105	94	85	94	97	93	47	51	59	52	51	52	56	58	50	53	47	53	53
36	OMH17-24	94	101	100	100	102	98	84	95	97	93	47	52	55	52	51	52	57	56	49	52	46	53	52
37	RCRMH 13	94	100	98	99	102	97	86	97	96	93	48	53	56	52	51	52	58	56	51	54	47	54	53
38	RCRMH 14	92	100	99	100	98	92	83	93	95	91	44	51	55	52	52	51	56	59	50	52	46	52	52
39	VaMH 16008	94	98	97	101	102	95	84	95	96	93	49	51	57	52	52	52	56	58	49	53	46	53	53
40	BIO 9544 (C)	94	104	101	98	103	101	85	106	99	95	50	53	56	51	50	52	58	60	48	54	47	53	53
41	CMH 08-292 (C)	94	100	101	100	100	93	83	94	95	92	48	51	56	56	51	52	58	57	50	51	45	52	52
42	DHM 121 (C)	94	102	98	100	103	97	82	98	97	94	49	52	59	52	51	52	57	57	50	56	47	54	53
	L Mean	94.1	101.7	98.7	99.2	101.7	95.2	83.9	95.0	96.2	92.8	48.2	51.6	56.0	52.2	51.3	51.9	55.8	57.5	49.4	51.9	46.1	52.3	52.2
	CV (%)	1.2	2.7	2.5	1.2	3.0	3.2	1.6	2.4	2.4	2.6	3.1	2.1	1.8	6.0	1.7	3.3	1.5	3.0	2.6	2.3	1.3	1.8	2.2
	F (Prob)	0.0	0.0	0.4	0.3	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	1.0	0.3	1.0	0.0	0.0	0.6	0.0	0.0	0.0	1.0
	CD (5%)	1.8	4.4	4.0	2.0	5.0	5.0	2.2	3.8	1.4	0.8	2.5	1.8	1.6	5.1	1.4	1.3	1.3	2.8	2.1	2.0	1.0	1.6	0.8
	CD (1%)	2.3	5.9	5.4	2.7	6.6	6.6	2.9	5.0	1.8	1.1	3.3	2.4	2.1	6.7	1.8	1.7	1.8	3.7	2.8	2.6	1.3	2.1	1.1

Table No. : 3 (Conti...) **Days to 50% Anthesis**

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8245 R	52	57	56	60	56	55	58	57	56	61	57	49	61	57	55
2	AH 8452	55	54	55	59	56	53	59	58	57	60	56	50	60	57	55
3	AH1625	48	55	55	60	55	54	59	56	56	64	56	52	59	57	55
4	AH1634	47	56	55	58	54	54	57	59	56	64	57	50	59	57	54
5	AH4142	46	54	55	60	54	54	60	56	57	65	56	50	60	57	54
6	AH4167	51	55	55	57	54	52	59	58	57	61	56	50	58	56	54
7	BAU-MH-18-2	53	59	54	61	56	56	59	58	55	66	58	52	61	58	55
8	BAU-MH-18-3	51	54	54	59	54	53	60	56	56	63	56	50	59	57	54
9	BH 417152	50	53	55	58	54	54	59	53	56	62	57	50	60	56	53
10	BH 417182	44	54	55	58	53	53	59	55	56	59	56	48	58	56	53
11	BH 417193	49	56	55	59	55	53	58	57	56	61	55	47	58	55	53
12	CMH-12-686	47	56	56	57	54	53	60	59	57	64	57	50	59	57	54
13	CMH-15-012	50	55	56	60	56	54	62	57	56	68	59	52	60	59	56
14	DH 327	48	53	51	58	52	51	57	56	55	61	54	49	56	55	53
15	DH 328	49	54	56	58	54	53	58	57	56	60	54	48	56	55	53
16	EH 3638	51	56	56	57	55	53	60	56	57	64	56	50	60	57	54
17	HMM 1014	50	56	56	58	55	49	59	57	55	58	51	49	57	54	53
18	HMM 1019	49	56	57	59	55	52	65	56	56	58	57	51	59	57	55
19	IMHL-K-19-1	51	57	57	59	56	54	61	58	56	63	58	51	59	57	55
20	IWH 1407	41	51	53	56	50	44	54	51	56	55	49	46	53	51	50
21	IYH 1603	47	53	50	54	51	48	54	55	56	56	48	46	56	53	51
22	JH 18064	47	53	54	58	53	53	59	57	57	60	56	50	58	56	54
23	JH 18065	50	56	57	59	55	53	62	57	57	63	57	52	59	57	55
24	JH 18099	47	56	54	56	54	54	60	56	56	65	57	50	59	57	54
25	JH 32104	43	55	56	59	53	53	60	55	55	64	56	49	59	56	54
26	KMH 18-42	45	51	49	55	50	46	55	59	57	56	49	46	53	53	51
27	KMH 18-71	45	54	49	54	51	47	55	54	58	52	49	46	54	52	50
28	KNMH 4191	48	54	56	59	54	53	60	56	56	67	56	48	58	57	54
29	KNMH 4192	47	54	54	59	54	54	61	58	57	64	57	50	59	58	54
30	KNMH 4194	47	53	53	59	53	52	59	58	55	63	56	48	57	56	53
31	LMH 4119	52	53	53	57	54	53	60	57	56	60	57	50	58	56	54
32	LMH 4219	49	52	56	57	53	53	59	56	56	63	56	49	58	56	54
33	LMH 4319	50	56	57	62	56	55	63	59	58	66	57	52	61	59	56
34	LMH 4419	49	57	55	59	55	54	61	57	56	64	57	51	60	57	55
35	OMH17-19	50	56	57	58	55	54	63	56	57	65	57	51	60	58	55
36	OMH17-24	47	54	56	58	54	53	59	58	57	63	55	49	59	57	54
37	RCRMH 13	52	55	56	59	56	53	60	56	56	62	56	52	58	57	54
38	RCRMH 14	47	54	56	58	54	51	57	57	57	58	55	49	56	55	53
39	VaMH 16008	48	56	55	58	54	53	59	55	58	63	59	49	59	57	54
40	BIO 9544 (C)	47	57	57	60	55	53	61	59	54	63	56	52	60	57	55
41	CMH 08-292 (C)	47	53	54	58	54	53	58	58	57	60	56	48	58	56	54
42	DHM 121 (C)	53	56	56	61	57	53	60	56	56	64	56	48	59	57	55
	L Mean	48.5	54.8	54.8	58.3	54.1	52.5	59.2	56.6	56.3	61.8	55.5	49.6	58.2	56.2	53.9
	CV (%)	7.2	3.8	1.7	2.4	4.1	2.0	2.0	4.4	2.2	5.0	2.0	3.0	1.9	3.1	3.2
	F (Prob)	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.2	0.7	0.0	0.0	0.0	0.0	1.0	1.0
	CD (5%)	5.7	3.4	1.6	2.3	1.9	1.7	1.9	4.0	2.0	5.0	1.8	2.4	1.8	1.1	0.6
	CD (1%)	7.6	4.5	2.1	3.0	2.5	2.3	2.5	5.4	2.7	6.7	2.4	3.2	2.4	1.4	0.8

Table No. : 3 (Conti...) **Days to 50% Silking**

S. No.	Entry Name	CWZ						NEPZ							NWPZ				
		AMBI	BANS	CHIND	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE	IARI	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8245 R	56	56	59	57	54	56	61	61	50	57	50	60	57	54	58	57	63	58
2	AH 8452	53	56	59	55	53	55	60	62	51	55	50	58	56	57	55	57	61	58
3	AH1625	52	54	57	57	53	55	57	62	51	55	51	57	55	51	57	55	63	57
4	AH1634	54	53	58	53	53	54	57	61	51	54	51	57	55	50	57	56	61	56
5	AH4142	52	55	59	56	56	55	58	61	52	56	50	59	56	48	55	56	63	56
6	AH4167	51	54	56	57	53	54	56	61	52	54	49	55	54	54	56	56	60	56
7	BAU-MH-18-2	53	57	60	55	54	56	58	62	51	55	51	60	56	57	59	55	64	58
8	BAU-MH-18-3	53	57	60	55	54	56	57	58	51	53	51	59	55	53	55	55	62	56
9	BH 417152	50	54	56	52	53	53	58	59	50	55	51	57	55	53	54	56	61	56
10	BH 417182	52	53	56	56	53	54	55	57	51	52	47	56	53	46	56	54	61	55
11	BH 417193	51	53	55	56	53	53	56	56	51	53	49	55	53	51	57	56	62	56
12	CMH-12-686	51	55	58	57	53	55	57	62	50	54	50	55	55	50	57	57	61	56
13	CMH-15-012	52	55	60	56	55	56	59	62	52	56	52	58	57	53	56	57	63	58
14	DH 327	50	53	55	56	53	54	56	57	50	52	49	56	54	50	54	53	60	54
15	DH 328	51	55	57	57	54	55	57	59	50	53	51	59	55	52	55	57	61	56
16	EH 3638	51	54	58	54	54	54	58	60	50	55	50	58	55	54	57	57	60	57
17	HMM 1014	50	56	56	56	55	54	58	59	50	54	50	55	54	53	57	57	61	57
18	HMM 1019	53	55	62	55	54	56	60	59	52	59	50	57	56	52	57	59	62	57
19	IMHL-K-19-1	53	57	59	56	54	56	60	59	51	56	50	59	56	54	57	58	61	58
20	IWH 1407	45	56	52	56	53	52	51	56	52	47	49	51	51	45	52	55	59	53
21	IYH 1603	47	54	53	57	53	53	54	57	51	50	49	53	52	50	54	52	57	53
22	JH 18064	51	53	56	58	53	54	57	58	52	54	49	57	55	49	54	55	61	55
23	JH 18065	51	54	57	57	53	55	58	64	50	55	51	58	56	53	57	59	61	57
24	JH 18099	50	54	56	56	54	54	57	61	51	54	51	57	55	50	57	56	60	56
25	JH 32104	51	54	56	56	53	54	57	59	51	55	49	56	54	46	56	57	61	55
26	KMH 18-42	48	55	52	55	53	53	50	56	51	48	49	50	51	48	52	51	58	52
27	KMH 18-71	48	57	52	54	53	53	51	55	52	46	49	51	50	48	55	51	56	53
28	KNMH 4191	51	53	57	58	54	54	57	59	50	56	50	55	55	50	55	57	61	56
29	KNMH 4192	50	56	57	56	54	55	58	58	50	55	50	56	55	51	54	55	62	56
30	KNMH 4194	50	55	57	57	54	55	56	59	49	52	50	56	54	49	55	55	61	55
31	LMH 4119	50	54	58	57	54	54	58	58	51	53	50	56	54	55	55	55	60	56
32	LMH 4219	53	53	57	57	54	55	57	59	51	52	49	59	54	52	53	57	61	55
33	LMH 4319	54	56	60	56	54	56	61	63	51	57	51	60	57	53	57	58	65	58
34	LMH 4419	52	55	57	56	53	55	60	63	52	54	51	60	56	52	58	56	62	57
35	OMH17-19	51	54	59	56	53	55	58	61	51	55	50	57	55	53	58	57	61	57
36	OMH17-24	50	55	56	56	53	54	58	58	51	54	50	56	55	50	56	57	61	56
37	RCRMH 13	51	55	57	55	54	54	59	59	52	56	50	59	56	55	57	57	62	58
38	RCRMH 14	47	54	56	55	54	53	57	61	51	54	50	55	55	50	55	56	61	55
39	VaMH 16008	52	54	57	56	54	55	58	60	50	55	50	57	55	51	57	56	61	56
40	BIO 9544 (C)	53	56	56	55	52	55	59	62	49	56	51	58	56	50	57	58	63	57
41	CMH 08-292 (C)	50	54	57	60	54	55	59	59	51	53	49	57	55	50	54	55	61	56
42	DHM 121 (C)	51	55	60	55	53	55	59	59	52	58	50	59	56	55	57	57	64	58
	L Mean	51.1	54.6	57.1	55.9	53.6	54.5	57.3	59.6	50.8	53.9	50.0	56.7	54.7	51.4	55.9	55.9	61.1	56.1
	CV (%)	2.8	2.0	1.9	5.5	1.5	3.1	1.8	3.1	2.7	2.4	2.1	2.1	2.4	6.9	3.4	1.7	2.3	3.9
	F (Prob)	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.7	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0
	CD (5%)	2.3	1.8	1.8	5.0	1.3	1.3	1.7	3.0	2.2	2.1	1.7	2.0	0.9	5.7	3.1	1.5	2.3	1.8
	CD (1%)	3.1	2.4	2.4	6.6	1.7	1.7	2.2	4.0	3.0	2.8	2.3	2.6	1.2	7.6	4.1	2.0	3.0	2.4

Table No. : 3		Days to 50% Silking										Plant Height (cm)												
		PZ									All	CWZ						NEPZ						
S. No.	Entry Name	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	India	AMBI	BANS	CHIND	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8245 R	58	62	60	58	59	60	52	63	59	58	282	181	201	180	193	207	195	173	167	190	189	170	181
2	AH 8452	56	61	60	59	58	58	52	61	58	57	280	191	198	179	213	214	188	182	172	203	200	181	187
3	AH1625	57	61	58	59	62	57	54	61	58	57	284	194	216	207	219	223	197	202	187	211	206	186	198
4	AH1634	57	59	61	58	62	59	52	60	59	56	275	207	212	177	218	218	212	196	182	175	184	188	188
5	AH4142	57	61	59	59	64	58	52	62	59	57	254	178	194	190	184	201	181	159	155	188	186	165	172
6	AH4167	54	61	60	59	59	57	52	60	58	56	244	180	192	170	182	193	174	160	149	193	179	156	170
7	BAU-MH-18-2	59	62	60	58	64	60	53	63	60	58	237	154	163	169	136	170	139	136	147	147	164	124	143
8	BAU-MH-18-3	55	63	58	58	61	58	52	61	58	56	232	186	168	173	177	188	147	147	142	153	173	154	152
9	BH 417152	57	61	55	58	60	59	51	62	58	56	272	206	179	186	198	205	195	172	161	199	189	184	183
10	BH 417182	55	61	57	58	57	56	50	60	57	55	271	186	202	177	206	210	196	186	176	209	209	181	193
11	BH 417193	56	60	59	58	59	57	49	60	57	55	263	196	190	192	208	211	207	188	175	182	199	175	188
12	CMH-12-686	56	61	61	59	61	58	52	61	59	56	268	200	210	174	207	213	193	201	179	205	176	195	190
13	CMH-15-012	57	63	59	58	67	60	54	62	60	58	269	207	208	191	178	210	205	175	169	207	191	192	188
14	DH 327	54	60	58	57	59	56	51	58	56	55	247	183	184	183	180	194	172	162	152	181	184	152	168
15	DH 328	55	61	59	59	58	56	50	58	57	56	242	180	179	199	174	196	170	163	158	181	183	150	169
16	EH 3638	56	62	58	59	62	57	51	62	58	56	267	200	199	182	197	208	197	189	167	197	203	165	187
17	HMM 1014	51	60	58	58	56	54	51	58	56	55	249	181	177	189	160	191	173	189	150	193	185	158	174
18	HMM 1019	55	67	58	58	57	60	53	61	58	57	287	193	191	184	187	207	183	211	157	213	175	179	186
19	IMHL-K-19-1	57	63	60	58	61	61	53	61	59	57	255	204	196	180	198	205	193	166	168	214	196	166	184
20	IWH 1407	48	56	54	58	53	52	48	55	53	52	223	180	165	167	178	180	183	169	140	187	164	156	166
21	IYH 1603	50	57	57	59	54	50	48	56	54	53	225	184	172	172	188	190	174	168	143	178	186	136	164
22	JH 18064	55	61	59	59	57	57	52	60	57	55	251	178	196	180	188	199	199	186	168	202	188	184	187
23	JH 18065	56	63	59	59	61	58	54	61	59	57	276	206	216	179	218	219	204	195	188	214	211	193	200
24	JH 18099	57	62	58	58	63	58	52	61	59	56	288	193	220	199	206	222	212	201	184	226	214	193	206
25	JH 32104	56	61	58	57	62	56	52	59	58	56	275	184	208	178	182	206	172	194	173	205	196	183	189
26	KMH 18-42	49	57	61	59	54	51	48	56	54	53	230	175	171	182	189	189	170	153	145	161	186	137	159
27	KMH 18-71	50	57	56	60	50	51	48	56	54	52	238	166	179	177	176	187	167	154	146	178	167	152	161
28	KNMH 4191	56	63	58	60	65	58	50	60	59	56	267	187	214	192	200	215	205	216	186	201	212	171	200
29	KNMH 4192	57	63	60	60	62	58	53	61	59	56	280	191	209	176	193	208	190	168	173	199	189	189	185
30	KNMH 4194	54	61	60	57	61	56	51	59	58	55	245	172	180	181	184	193	177	159	147	168	180	138	162
31	LMH 4119	55	62	59	59	59	58	52	60	58	56	260	172	180	173	179	194	185	171	170	186	191	160	177
32	LMH 4219	56	64	59	59	58	57	51	61	58	56	258	185	189	168	203	200	188	162	172	193	178	153	175
33	LMH 4319	58	64	61	60	64	58	54	62	60	58	234	173	194	186	182	194	179	176	172	180	200	174	179
34	LMH 4419	57	62	59	58	62	58	52	62	59	57	279	200	210	180	200	213	207	190	183	200	207	182	195
35	OMH17-19	56	65	58	59	63	58	53	62	59	57	280	196	220	166	228	218	215	183	176	206	210	183	195
36	OMH17-24	56	61	60	59	60	55	51	61	58	56	252	171	193	182	182	196	176	171	176	188	186	171	179
37	RCRMH 13	55	61	58	58	60	58	54	60	58	57	258	191	183	199	170	200	178	182	169	203	195	168	181
38	RCRMH 14	54	60	59	59	56	56	51	58	57	55	247	187	187	168	180	195	177	179	159	177	195	157	173
39	VaMH 16008	55	61	57	60	61	59	51	61	58	56	272	194	214	175	199	210	196	182	183	196	199	179	189
40	BIO 9544 (C)	55	63	61	57	61	57	54	61	59	57	233	183	182	184	177	191	173	168	144	177	182	159	167
41	CMH 08-292 (C)	55	59	61	59	58	57	50	60	57	56	283	210	208	195	205	223	221	190	196	214	202	195	203
42	DHM 121 (C)	55	62	58	59	62	59	50	61	58	57	249	196	194	179	195	204	174	169	166	192	197	161	178
	L Mean	55.2	61.3	58.7	58.6	59.8	57.1	51.5	60.2	57.8	56.0	259.1	187.6	193.9	181.5	190.9	202.6	186.7	177.2	166.1	192.2	190.6	168.9	180.3
	CV (%)	2.1	2.4	4.2	2.1	5.0	2.3	2.9	2.1	3.1	3.1	5.7	7.4	3.6	7.2	8.9	6.7	6.0	9.4	5.5	7.8	4.7	7.8	7.0
	F (Prob)	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.1	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
	CD (5%)	1.9	2.4	4.0	2.0	4.9	2.1	2.5	2.1	1.1	0.6	23.9	22.7	11.5	21.4	27.8	10.2	18.3	27.0	14.8	24.5	14.6	21.5	8.8
	CD (1%)	2.5	3.2	5.4	2.6	6.5	2.8	3.3	2.8	1.4	0.8	31.7	30.1	15.3	28.4	36.9	13.4	24.2	35.9	19.7	32.5	19.4	28.5	11.6

Table No. : 3		Plant Height (cm)																Shelling %					
		NWPZ					PZ										All	CWZ					
S. No.	Entry Name	IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	India	AMBI	BANS	CHIND	GODH	UDAI	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8245 R	243	203	230	280	240	197	156	215	184	149	194	193	268	195	202	76.6	64.9	82.1	86.5	74.2	77.0
2	AH 8452	225	200	227	277	233	204	165	210	168	147	199	191	261	193	203	75.5	76.4	86.4	79.3	73.4	78.3
3	AH1625	228	196	219	292	234	202	181	222	194	155	202	202	268	203	211	77.4	79.4	87.7	81.8	73.4	79.9
4	AH1634	232	218	245	290	245	212	187	195	177	163	218	203	278	204	210	76.2	75.7	82.9	78.4	76.2	77.9
5	AH4142	227	180	223	282	229	194	160	204	188	142	193	174	261	190	194	77.9	75.7	87.3	86.6	69.2	79.4
6	AH4167	214	182	217	256	218	198	160	191	177	144	197	180	244	186	189	79.5	78.2	84.4	83.0	70.2	79.0
7	BAU-MH-18-2	188	132	160	216	175	179	136	173	185	131	177	147	225	170	164	78.7	65.5	91.6	82.0	68.0	77.1
8	BAU-MH-18-3	175	150	177	222	182	177	144	194	159	126	178	146	250	171	172	78.3	65.2	84.9	79.5	70.4	75.9
9	BH 417152	226	215	232	274	236	198	184	202	194	146	204	199	266	200	203	76.3	71.6	85.6	77.5	72.6	76.2
10	BH 417182	242	207	242	288	244	201	180	217	190	159	207	188	285	203	209	76.7	78.7	81.9	85.1	69.0	78.6
11	BH 417193	240	191	250	281	240	216	173	218	169	154	210	188	279	201	206	76.2	78.1	85.8	81.1	76.0	79.7
12	CMH-12-686	228	196	234	292	239	196	184	213	175	162	219	208	268	202	208	76.1	77.1	83.1	82.6	76.2	79.0
13	CMH-15-012	252	218	227	283	244	197	183	213	156	161	225	191	274	201	207	77.9	72.3	84.5	76.5	70.6	76.2
14	DH 327	228	180	210	257	221	194	171	209	176	134	186	199	258	192	191	75.8	76.2	86.7	80.8	69.0	77.8
15	DH 328	211	194	201	261	217	190	150	203	182	138	187	175	247	183	188	77.1	78.4	79.9	82.8	71.6	78.2
16	EH 3638	233	204	230	285	240	197	172	213	187	132	206	200	271	197	204	76.4	75.8	85.7	88.5	71.0	79.3
17	HMM 1014	228	189	245	264	231	170	159	208	162	151	179	173	248	181	190	76.5	73.2	81.3	78.0	70.0	75.6
18	HMM 1019	229	224	267	282	248	195	160	187	165	162	220	166	261	190	203	76.6	71.3	81.1	81.5	70.2	76.2
19	IMHL-K-19-1	229	201	235	289	238	198	167	207	181	156	205	178	262	195	202	77.1	53.4	84.5	81.1	73.0	73.7
20	IWH 1407	230	193	248	244	228	176	159	198	170	134	171	170	238	177	184	77.8	72.6	84.1	82.4	68.6	76.4
21	IYH 1603	217	184	210	245	213	182	166	196	182	154	184	169	235	183	185	77.9	68.0	86.6	82.2	70.0	77.2
22	JH 18064	232	197	237	279	238	194	177	213	190	155	201	199	277	200	203	76.6	75.4	88.8	82.3	74.2	79.5
23	JH 18065	238	219	240	292	248	217	191	202	183	162	222	209	281	207	215	78.2	80.9	85.1	80.0	71.0	78.9
24	JH 18099	249	230	242	298	255	214	181	224	171	172	228	204	304	213	220	76.5	73.6	83.9	84.8	71.4	78.1
25	JH 32104	246	215	240	292	248	203	176	217	173	148	209	197	277	200	207	78.1	78.1	86.4	82.5	75.0	80.3
26	KMH 18-42	215	160	205	255	209	194	160	223	179	141	191	157	250	186	184	75.5	73.3	87.5	80.2	71.2	77.1
27	KMH 18-71	209	158	196	256	203	195	153	178	192	144	184	175	247	183	182	77.6	72.9	84.9	78.3	69.6	76.5
28	KNMH 4191	236	215	229	288	242	212	184	213	186	164	216	203	272	207	213	76.1	75.8	85.8	83.7	76.2	79.9
29	KNMH 4192	237	215	223	287	241	192	172	210	179	147	207	199	277	198	204	76.3	72.4	84.3	79.2	76.2	77.2
30	KNMH 4194	221	181	215	259	217	178	168	182	166	134	188	168	250	179	184	76.8	79.4	84.6	82.2	71.2	79.3
31	LMH 4119	221	190	218	259	222	193	167	193	180	154	197	176	248	189	193	77.9	69.9	83.8	81.0	71.2	77.0
32	LMH 4219	228	191	235	269	231	194	161	214	178	149	192	177	264	192	196	77.0	76.9	88.1	79.8	70.0	78.5
33	LMH 4319	229	180	225	284	230	200	176	212	164	154	211	196	266	198	198	77.3	67.8	81.1	76.7	72.4	75.2
34	LMH 4419	233	223	236	297	248	208	185	218	192	151	208	228	299	211	214	76.3	75.8	87.3	82.7	72.4	79.0
35	OMH17-19	242	213	252	294	251	219	191	219	187	147	224	202	292	211	215	78.6	80.0	84.0	87.2	78.2	81.5
36	OMH17-24	228	177	200	289	222	198	168	215	180	150	197	184	277	196	196	79.0	79.4	86.5	85.1	69.2	80.1
37	RCRMH 13	231	191	242	276	235	184	166	213	151	155	210	186	264	191	198	77.4	76.1	87.7	86.6	70.2	79.4
38	RCRMH 14	215	195	241	284	234	188	175	210	174	161	201	181	244	192	195	76.5	74.3	82.8	78.9	73.0	77.3
39	VaMH 16008	229	222	236	267	239	209	186	207	178	157	221	207	277	205	208	76.7	82.9	89.2	80.9	72.0	80.1
40	BIO 9544 (C)	219	170	215	256	215	181	154	196	162	131	176	168	239	175	183	77.2	82.0	86.1	83.5	78.6	81.0
41	CMH 08-292 (C)	253	226	262	297	257	217	194	213	182	167	206	196	287	209	219	76.9	78.7	81.5	80.4	69.8	77.9
42	DHM 121 (C)	220	169	210	273	219	204	173	212	195	159	210	187	268	200	198	76.3	78.3	81.0	83.0	69.2	77.5
	L Mean	227.6	195.1	226.9	274.0	230.9	196.8	170.3	206.5	177.8	150.0	201.4	186.6	264.5	194.2	198.8	77.1	74.6	85.0	81.8	72.0	78.1
	CV (%)	5.4	6.2	6.6	3.4	5.4	4.3	5.8	7.7	9.7	8.6	6.6	8.2	5.4	7.0	6.6	1.5	5.5	4.3	4.0	0.0	3.7
	F (Prob)	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.1	0.4	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.2	0.0	0.0	0.0
	CD (5%)	20.1	19.8	24.4	15.0	10.6	13.7	16.0	26.0	28.2	21.1	21.5	24.9	23.1	8.3	4.7	1.9	6.6	6.0	5.3	0.0	2.2
	CD (1%)	26.7	26.4	32.4	19.9	14.0	18.1	21.2	34.5	37.4	28.1	28.6	33.1	30.6	10.9	6.2	2.6	8.8	7.9	7.0	0.0	2.9

Table No. : 3 **Shelling %**

S. No.	Entry Name	NEPZ							NWPZ					PZ									All India
		BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE	IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 8245 R	75.0	75.0	82.4	76.6	83.8	81.3	79.3	82.5	82.0	83.3	78.4	81.7	80.0	86.1	76.9	77.7	75.5	84.2	81.1	77.0	80.0	79.4
2	AH 8452	74.0	73.5	81.4	76.3	86.2	81.3	78.3	83.4	80.2	82.6	78.2	80.9	78.4	86.4	77.5	78.3	77.2	83.4	83.6	80.4	80.6	79.6
3	AH1625	77.4	76.6	81.1	79.4	83.8	83.2	80.2	83.6	81.2	85.4	81.6	83.0	80.6	85.8	80.4	79.6	78.7	81.9	82.1	78.0	81.0	80.9
4	AH1634	74.4	78.2	81.7	74.0	84.0	76.8	78.1	82.4	80.1	81.3	79.5	80.8	79.2	84.2	81.2	79.1	75.2	82.0	79.2	80.0	80.1	79.2
5	AH4142	76.3	77.6	82.1	80.2	81.7	81.6	80.1	83.4	81.9	86.5	82.1	83.6	80.3	86.3	78.4	78.8	78.9	82.2	80.0	77.4	80.3	80.6
6	AH4167	80.0	74.8	81.8	80.4	86.3	86.2	81.7	82.3	81.9	85.3	85.9	83.8	81.0	88.3	81.2	79.4	82.2	85.1	84.0	80.2	82.5	81.7
7	BAU-MH-18-2	81.8	73.1	81.5	83.8	81.8	82.1	80.7	77.7	79.2	85.1	83.9	81.9	81.9	85.9	80.3	79.4	78.0	85.4	85.6	77.4	81.8	80.5
8	BAU-MH-18-3	82.0	73.3	82.1	82.7	85.6	80.5	80.9	80.4	79.2	84.5	85.5	82.0	80.8	85.3	80.7	80.0	78.6	84.4	84.9	77.7	81.3	80.2
9	BH 417152	75.9	77.7	82.0	76.6	83.9	84.4	79.8	89.5	80.7	83.6	79.3	83.1	79.1	84.9	79.8	78.0	76.5	82.8	83.0	78.9	80.4	79.8
10	BH 417182	76.4	80.3	83.8	82.3	79.0	83.3	80.9	86.8	79.1	84.7	81.8	83.0	79.6	85.4	80.5	78.5	76.5	83.0	80.7	78.7	80.3	80.6
11	BH 417193	76.7	79.8	80.7	82.3	85.2	81.2	81.2	83.0	80.5	84.7	83.0	83.1	79.1	86.0	78.7	77.9	76.3	83.8	81.9	80.0	80.3	80.9
12	CMH-12-686	75.6	79.6	80.6	81.7	85.8	86.5	81.5	81.6	80.9	84.1	83.6	82.4	79.5	84.8	79.7	78.3	75.9	83.2	81.6	76.8	79.8	80.5
13	CMH-15-012	75.9	72.9	83.7	75.2	84.5	80.6	78.8	85.9	81.5	82.9	81.8	83.6	77.1	86.4	80.7	79.8	78.3	83.1	81.4	75.1	80.5	79.6
14	DH 327	80.3	73.9	84.0	82.8	84.7	79.7	81.1	82.6	81.9	85.5	79.0	82.3	80.5	86.4	80.6	79.5	76.9	84.2	82.1	80.3	81.3	80.7
15	DH 328	76.9	76.5	81.7	83.1	85.1	80.0	80.7	84.1	80.1	83.7	84.0	82.5	79.3	86.5	77.9	80.8	78.6	84.8	84.6	78.7	81.3	80.7
16	EH 3638	76.1	79.6	83.2	83.3	82.7	65.6	78.7	80.4	80.9	82.9	85.4	82.2	78.3	85.3	78.5	77.9	77.4	83.3	82.8	78.7	80.2	80.0
17	HMM 1014	75.6	74.2	83.1	80.0	86.3	80.0	79.7	78.0	82.0	81.7	83.9	81.0	78.3	85.4	81.0	79.9	75.8	82.6	78.0	77.0	79.7	79.1
18	HMM 1019	76.0	73.4	81.3	80.5	78.0	81.0	78.2	77.3	80.4	78.4	81.0	79.8	77.6	79.9	78.7	79.5	75.0	81.7	81.9	76.7	79.0	78.3
19	IMHL-K-19-1	79.2	74.6	82.2	83.0	86.5	83.9	81.7	86.9	81.1	85.7	85.1	84.6	78.6	86.1	79.9	78.3	75.8	85.8	84.0	77.6	81.0	80.2
20	IWH 1407	77.2	72.8	83.7	86.7	85.5	81.0	81.0	86.3	82.1	83.6	77.9	82.4	78.8	86.0	81.2	78.8	78.2	82.7	76.0	78.9	80.3	80.0
21	IYH 1603	84.6	73.0	80.6	86.1	80.6	84.4	81.7	84.8	80.3	83.6	82.4	83.2	81.6	87.5	80.9	79.4	79.7	84.4	76.0	81.1	81.4	80.9
22	JH 18064	75.5	75.6	82.4	75.7	84.9	80.3	79.3	83.6	82.4	82.2	84.4	83.3	79.6	84.9	79.5	78.6	76.7	83.3	78.8	79.5	80.0	80.3
23	JH 18065	80.1	77.1	83.6	84.2	87.2	80.6	82.2	84.0	80.9	86.2	83.9	83.5	80.6	86.9	81.3	79.1	80.6	85.7	83.1	80.8	82.1	81.7
24	JH 18099	74.6	76.2	79.6	76.5	84.4	76.7	77.7	88.1	80.5	80.4	78.8	81.8	79.6	83.7	78.2	79.0	73.6	82.3	84.7	77.0	79.9	79.3
25	JH 32104	76.7	77.0	83.3	77.6	83.1	86.2	80.9	82.3	81.8	82.5	81.4	82.1	79.2	85.2	79.7	77.5	76.3	83.9	82.3	79.3	80.4	80.8
26	KMH 18-42	82.0	73.0	83.0	80.1	84.0	81.6	80.6	78.9	81.5	85.2	80.2	81.0	79.7	86.4	77.8	77.8	78.9	84.4	76.0	81.7	80.3	79.8
27	KMH 18-71	79.1	73.7	81.7	80.0	83.2	79.9	79.7	83.4	81.3	81.1	79.4	81.7	79.3	84.6	78.0	77.7	76.9	79.4	76.0	78.4	78.9	79.0
28	KNMH 4191	77.1	74.8	83.6	75.5	86.0	80.1	79.3	84.1	80.0	83.6	83.3	82.4	79.2	84.9	78.6	78.0	76.6	84.1	83.5	80.0	80.5	80.4
29	KNMH 4192	78.7	78.3	82.9	82.6	85.2	87.1	82.4	87.4	80.2	86.4	83.0	84.2	80.9	85.4	80.4	79.0	75.4	85.2	84.8	82.4	81.8	81.4
30	KNMH 4194	76.7	73.3	84.5	82.2	83.4	81.8	80.4	82.3	81.4	81.4	84.4	82.5	78.5	84.2	80.0	78.9	76.8	83.7	83.8	79.4	80.7	80.6
31	LMH 4119	79.8	76.1	82.3	82.5	86.0	83.5	81.5	85.9	80.4	86.2	81.0	83.5	81.2	86.6	81.6	79.1	74.9	85.3	81.6	81.2	81.5	80.9
32	LMH 4219	81.8	74.4	83.0	82.9	84.8	85.2	82.2	85.4	81.3	84.3	81.3	83.1	80.0	86.6	82.0	79.3	76.0	85.3	83.0	81.1	81.6	81.3
33	LMH 4319	75.1	73.3	81.8	77.0	82.7	81.4	78.5	83.4	80.2	79.7	81.4	81.4	78.5	87.0	81.1	80.0	77.5	85.0	83.5	79.5	81.5	79.3
34	LMH 4419	76.3	76.8	81.6	81.0	84.1	79.4	79.8	86.1	80.0	83.8	85.8	83.6	78.1	85.5	82.2	78.6	76.9	82.5	83.0	79.6	80.8	80.7
35	OMH17-19	79.8	78.3	81.1	85.5	87.1	85.1	82.5	86.8	81.3	86.0	84.1	84.1	79.4	87.1	81.2	79.2	75.7	85.0	82.0	81.5	81.2	82.1
36	OMH17-24	80.7	75.3	80.8	84.0	86.7	83.3	81.9	83.7	78.9	85.9	86.0	84.1	81.2	87.3	80.6	79.7	78.0	84.3	86.7	79.6	82.3	82.0
37	RCRMH 13	78.2	75.7	80.5	78.6	82.5	81.7	79.7	83.1	81.3	85.3	83.7	83.7	78.9	86.5	79.6	79.6	79.0	84.3	83.0	79.8	81.4	80.9
38	RCRMH 14	76.3	74.8	84.1	84.7	87.4	90.4	82.4	88.0	83.1	84.5	82.2	84.2	78.6	85.6	80.1	80.0	76.3	84.1	82.7	79.6	80.7	81.1
39	VaMH 16008	80.0	78.0	82.5	80.8	84.7	80.5	81.3	82.4	81.1	83.8	82.7	82.6	80.4	87.1	79.8	78.9	78.0	84.1	82.1	80.8	81.4	81.3
40	BIO 9544 (C)	77.3	79.7	82.1	76.8	85.5	85.4	81.3	80.5	82.5	85.9	80.5	82.1	80.2	87.3	81.0	78.2	82.1	85.5	83.0	81.0	82.2	81.7
41	CMH 08-292 (C)	76.0	78.3	81.8	81.3	72.9	82.6	78.5	85.4	78.8	85.0	79.0	82.5	78.8	86.5	80.1	79.7	79.0	85.7	84.0	79.7	81.7	80.2
42	DHM 121 (C)	73.7	73.9	82.5	78.0	86.7	80.9	79.4	85.1	81.6	83.7	81.2	82.9	80.7	85.0	79.7	76.9	74.4	82.8	81.8	78.1	79.9	79.8
	L Mean	77.7	75.8	82.2	80.6	84.1	81.9	80.2	83.6	80.9	83.9	82.2	82.6	79.6	85.8	79.9	78.9	77.3	83.8	82.0	79.2	80.8	80.4
	CV (%)	1.2	1.5	1.0	2.6	3.9	0.0	1.9	5.5	2.3	1.3	1.9	3.2	1.2	0.7	3.3	1.7	2.2	0.9	0.0	2.3	1.8	2.6
	F (Prob)	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.5	0.7	0.0	0.0	0.0	0.0	0.0	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	1.5	1.9	1.4	3.4	5.4	0.0	1.0	7.5	3.0	1.8	2.5	2.1	1.6	1.0	4.3	2.2	2.8	1.2	0.0	3.0	0.8	0.7
	CD (1%)	2.0	2.5	1.9	4.5	7.3	0.0	1.3	10.0	3.9	2.4	3.4	2.8	2.1	1.4	5.8	2.9	3.7	1.6	0.0	4.0	1.1	1.0

Table No. : 3 **(Conti...)** **Gain in yield (%) over BIO 9544**

S. No.	Entry Name	CWZ												NEPZ											
		AMBI		BANS		CHIND		GODH		UDAI		ZONE		BHU		BAHA		BHUB		DHOL		RANC		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH 8245 R	18.74	9	-37.78	37	-26.41	23	-17.89	28	-42.74	22	-9.14	19	-28.12	36	-35.52	32	-3.49	16	-0.9	22	-13.51	18	-28.75	34	-17.9	30
2	AH 8452	22.29	7	8.13	14	-24.68	21	-14.92	24	-29.27	9	-8.71	18	-11.27	23	-41.08	36	-11	24	28.45	7	-1.26	5	-1.38	22	-12.31	22
3	AH1625	23.35	6	42.23	5	-4.9	6	2.81	11	-17.32	6	4.4	5	12.43	5	-23.92	20	11.95	1	13.95	10	1.92	2	14.41	11	-1.07	9
4	AH1634	3.91	23	36.75	7	-13.07	13	-39.47	41	-34.9	16	-7.65	17	-5.83	20	-16.43	14	0.83	9	-3.31	26	-13.09	17	-1.98	23	-9.22	15
5	AH4142	17.11	10	2.69	19	-11.03	12	-9.9	22	-63.46	40	3.18	7	3.14	11	-32.68	30	-29.95	39	-10.94	31	-12.18	15	-26.39	33	-15.72	26
6	AH4167	0.82	25	-8.83	26	-42.45	34	-31.45	33	-55	33	-25.86	31	-3.67	19	-31.98	28	-31.89	40	-20.03	35	-21.15	29	2.3	17	-20.81	31
7	BAU-MH-18-2	-24.26	36	-49.43	39	-52.55	38	-27.19	32	-65.07	41	-45.01	38	-33.07	41	-43.47	38	-14.56	30	-27.72	39	-31.96	38	17.95	7	-31.62	40
8	BAU-MH-18-3	-13.62	30	-28.65	32	-43.73	35	-35.86	38	-45.95	25	-30.8	33	-25.92	35	-37.51	33	-21.06	37	-10.19	28	-21.11	28	-53.64	40	-25.47	35
9	BH 417152	7.55	20	23.51	12	-22.1	19	-36.67	39	-25.23	7	-13.64	21	1.67	13	-8.16	7	-13.32	29	9.08	17	-14.4	20	-10.42	29	-4.55	11
10	BH 417182	15.27	13	71.07	1	-20.11	18	-19.67	30	-33.22	14	-4.91	14	21.69	2	9.76	2	2.72	6	29.42	6	-7.49	7	14.49	10	9.96	1
11	BH 417193	5.77	21	49.11	3	-15.36	15	2.52	12	-9.71	2	-5.26	15	30.59	1	14.75	1	8.5	2	-10.2	29	-4.73	6	24.28	4	9.56	2
12	CMH-12-686	29.87	5	40.54	6	0.04	3	-18	29	-15.42	5	12.15	3	7.93	7	-7.77	6	-1.58	12	50.61	1	-8.48	8	40.37	1	6.37	4
13	CMH-15-012	-14.34	31	24.36	10	-46.67	36	-38.53	40	-59.07	35	-35.16	36	-21.41	30	-25.65	22	-57.39	42	-32.33	41	-18.63	26	-37.29	36	-30.45	37
14	DH 327	-21.83	35	-2.44	23	-23.48	20	10	6	-46.29	26	-25.04	29	-12	24	-40.13	34	-10.79	23	4.75	19	-19.55	27	-1.28	21	-16.17	29
15	DH 328	12.26	15	3.04	18	-34.03	29	4.56	10	-51.07	30	-15.86	23	-18.52	28	-23.19	18	-4.52	17	-7.21	27	-17.18	24	-10.69	30	-16.01	27
16	EH 3638	7.76	19	-10.06	27	-6.5	8	45.81	1	-31.24	12	0.02	8	-0.28	15	-9.06	8	-12.17	25	9.18	16	-16.18	22	-23.88	32	-5.52	12
17	HMM 1014	-47.08	42	-36.57	35	-39.05	31	-0.63	14	-63.13	39	-40.91	37	-29.12	37	-30.31	26	-17.52	35	-23.05	36	-17.24	25	-62.47	42	-24.66	34
18	HMM 1019	-42.22	40	-28.21	31	-48.74	37	16.88	3	-69.54	42	-47.11	40	-24.25	32	-34.83	31	-14.82	32	-12.52	33	-32.34	39	-54.37	41	-24.52	32
19	IMHL-K-19-1	4.1	22	-50.55	40	-24.69	22	-22.27	31	-52.41	31	-14.56	22	-10.56	22	-30.31	27	-5.98	19	-1.34	24	-22.92	32	-11.06	31	-15.56	25
20	IWH 1407	-34.79	39	-44.57	38	-73.08	42	-33.52	36	-61.62	38	-61.43	42	-31.49	39	-45.59	39	-31.93	41	-28.78	40	-36.19	42	-49.37	39	-35.55	41
21	IYH 1603	-45.95	41	-53.5	42	-71.76	41	-16.8	26	-49.67	27	-57.87	41	-31.94	40	-45.6	40	-27.6	38	-0.93	23	-35.97	41	-33.04	35	-29.24	36
22	JH 18064	16.64	11	54.3	2	12.72	2	-35.29	37	-14.53	4	13	2	7.52	9	-15.3	12	3.89	3	46.6	3	-9.67	11	11.09	13	5.71	5
23	JH 18065	30.2	4	36.36	8	19.97	1	5.59	9	-30.59	11	23.84	1	19.29	4	-14.57	11	-5.38	18	47.19	2	-9.51	10	22.28	5	4	6
24	JH 18099	9.24	18	-20.93	30	-3.38	5	-2.26	18	-38.84	17	-0.88	11	5.4	10	-24.36	21	-9.39	22	16.24	9	-10.32	13	0.77	18	-7.71	14
25	JH 32104	33.08	2	19.05	13	-5.36	7	-11.46	23	-27.56	8	6.82	4	7.64	8	-13.22	10	2.08	7	12.96	11	-21.21	30	10.23	14	-2.92	10
26	KMH 18-42	10.45	16	-37.35	36	-63.77	40	-8.03	21	-57.66	34	-33.54	35	-30.25	38	-51.42	42	-20.38	36	-46.25	42	-31.62	37	-41.45	38	-35.56	42
27	KMH 18-71	-32.34	38	-52.14	41	-56.39	39	9	7	-60.64	36	-45.89	39	-24.91	33	-46.4	41	-15.61	34	-23.58	37	-35.01	40	19.63	6	-31.58	39
28	KNMH 4191	-10.4	28	0.99	20	-17.17	16	-1.86	17	-33.99	15	-17.72	24	-1.08	16	-19.97	16	-2.98	15	-10.72	30	-13	16	11.96	12	-10.94	18
29	KNMH 4192	18.8	8	-11.94	28	-8.11	9	-40.73	42	-30.25	10	-2.5	12	-2.48	17	-22.35	17	2.89	5	9.84	15	-8.94	9	14.76	9	-6.2	13
30	KNMH 4194	-25.04	37	-7.49	25	-41.49	32	-7.58	20	-50.44	29	-31.8	34	-21.63	31	-41.4	37	-12.47	28	-3.16	25	-29.24	35	-38.94	37	-24.61	33
31	LMH 4119	10.11	17	-15.95	29	-41.62	33	-32.74	34	-49.67	28	-22.48	26	-19.73	29	-15.46	13	-1.9	13	12.24	14	-13.86	19	-0.28	20	-10.84	17
32	LMH 4219	-10.48	29	5.99	16	-33.05	28	-3.08	19	-31.78	13	-27.53	32	2.8	12	-27.69	24	-14.68	31	5.69	18	-26.86	34	-7.7	28	-11.14	19
33	LMH 4319	-16.42	34	-35.54	34	-29.34	27	-33.29	35	-40.61	20	-25.25	30	-38.88	42	-40.38	35	-12.34	27	-25.33	38	-29.83	36	-2.59	25	-31.56	38
34	LMH 4419	16.26	12	-6.01	24	-13.65	14	-0.76	15	-41.38	21	-0.54	10	-15.33	25	-23.65	19	3.68	4	12.43	12	-21.47	31	8.55	16	-11.5	20
35	OMH17-19	31.28	3	6.54	15	-9.82	11	11.06	5	-12.25	3	3.68	6	20.33	3	-6.73	4	-2.79	14	35.02	4	-0.27	4	35.65	2	8.26	3
36	OMH17-24	36.12	1	-34.41	33	-28.24	25	13.57	4	-60.99	37	-3.7	13	-3.27	18	-32.11	29	-9.05	21	12.35	13	-9.99	12	-7	27	-10.69	16
37	RCRMH 13	1.28	24	4.64	17	-34.47	30	-0.93	16	-44.17	23	-19.09	25	-16.17	27	-19.45	15	-6.62	20	2.83	20	-16.72	23	-2.32	24	-13.01	24
38	RCRMH 14	-9.19	27	23.77	11	-29.27	26	-16.73	25	-39.74	18	-23.15	27	-15.56	26	-26.11	23	-12.19	26	18.37	8	-11.18	14	15.21	8	-12.65	23
39	VaMH 16008	-15.33	33	47.83	4	-8.27	10	6.78	8	-45.74	24	-12.27	20	-6.53	21	-10.73	9	-15.14	33	-14.33	34	-26.63	33	8.63	15	-16.14	28
40	BIO 9544 (C)	0	26	0	21	0	4	0	13	0	1	0	9	0	14	0	3	0	10	0	21	0	3	0	19	0	8
41	CMH 08-292 (C)	12.64	14	30.44	9	-20.06	17	18.57	2	-40.2	19	-5.86	16	8.08	6	-7.45	5	1.06	8	29.9	5	-15.95	21	33.71	3	0.31	7
42	DHM 121 (C)	-14.64	32	-1.14	22	-27.55	24	-17.81	27	-53.65	32	-24.28	28	-25.91	34	-28.32	25	-0.17	11	-12.01	32	9.45	1	-3.91	26	-11.53	21

Table No. : 3 (Conti...) **Gain in yield (%) over BIO 9544**

S. No.	Entry Name	NWPZ										PZ																All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH 8245 R	-3.21	8	-12.17	35	-13.13	20	-21.31	32	-15.6	31	7.84	3	-20.9	34	-13.2	16	23.8	18	-5.27	19	5.15	10	12.42	25	-0.23	13	1.58	8	-8.76	21
2	AH 8452	-28.39	27	7.72	2	-11.13	17	7.15	4	4.38	3	1.55	9	-2.12	28	7.44	1	15.1	33	1.3	9	2.53	13	27.4	9	6.8	4	4.05	3	-2.71	11
3	AH1625	-17.6	18	-6.49	21	-1.71	11	4	7	1.34	6	5.64	5	3.14	24	-14.9	17	30.8	8	-5.29	20	-4.93	23	18.37	19	-6.77	19	-2.25	14	-0.54	8
4	AH1634	-0.5	6	3.96	5	-1.67	10	-2.77	14	-1.49	12	-2.62	19	32.51	3	-24.5	31	30.3	11	-1.68	14	-10.1	26	37.1	3	14.3	2	-3.43	16	-5.62	17
5	AH4142	-23.84	22	2.01	8	2.04	6	-4.21	16	0.97	7	-9.23	26	11.91	14	-15.1	18	15.1	32	-17.5	32	11.18	6	-20.3	38	2.63	8	-0.46	12	-4.45	14
6	AH4167	-39.21	36	-4.47	14	-8.35	16	-18.83	30	-14.79	30	-6.48	22	6.82	21	-6.57	6	17.9	28	-28.8	38	-26.8	36	25.6	12	-23.2	37	-10.82	29	-16.49	30
7	BAU-MH-18-2	-62.52	42	-8.83	26	-34.78	38	-47.07	41	-28.03	40	-17.97	35	-45.2	40	-28.8	38	17.3	29	-42.5	42	-28.5	37	-31.4	40	-29.8	40	-22.08	40	-29.48	41
8	BAU-MH-18-3	-36.37	32	-7.22	24	-32.95	36	-13.8	28	-13.36	29	-9.89	28	-26.9	36	-23.9	29	22.6	19	-37.9	40	-14.2	31	-1.91	34	-10.7	24	-13.95	32	-20.2	34
9	BH 417152	-1.68	7	-17.79	41	-3.25	13	-5.78	18	-8.9	24	-0.31	14	8.26	18	-27.7	36	30.8	7	-18.6	33	-13.4	29	31.7	6	-2.28	16	-5.9	24	-7.11	19
10	BH 417182	2.4	3	-4.77	15	10.52	3	1.72	10	-1.14	11	10.08	2	16.66	11	-12.5	15	45	2	9.77	4	20.96	1	37	4	5.39	5	8.65	1	5.21	3
11	BH 417193	-9.25	13	-9.94	30	-27.08	33	-4.11	15	-6.16	20	-1.18	16	14.82	12	0.53	2	16.9	30	10.47	3	5.35	8	30.82	7	2.35	9	2.63	5	1.91	6
12	CMH-12-686	-45.83	37	7.14	3	-22.7	29	-6.35	20	-1.84	14	17.09	1	28.4	5	-11.3	12	29.2	12	20.58	1	1.87	15	26.8	10	3.86	6	3.32	4	4.56	4
13	CMH-15-012	-34.25	30	-13.72	36	-44.34	39	-35.92	37	-23.42	36	-18.2	36	8.39	17	-21.2	26	6.5	39	-7.83	25	-31.8	40	14.76	23	-17.1	31	-18.6	38	-25.58	35
14	DH 327	-11.55	16	-11.55	33	-22.57	28	-21.29	31	-15.85	33	-13.38	30	7.57	20	-24.3	30	27.1	13	-39.8	41	-23.5	33	23.66	16	-19.6	35	-14.89	33	-17.02	31
15	DH 328	-22.03	21	-9.17	29	-29.07	34	-12.49	26	-11.97	27	-1.1	15	-12.3	31	-33.5	41	26.9	14	-15.4	31	-3.31	22	17.04	20	-16.2	29	-10.92	30	-13.48	28
16	EH 3638	-25.48	24	-21.5	42	8.16	4	-5.83	19	-13.24	28	-13.93	31	10.37	15	-10.1	11	20	26	-7.81	24	-1.95	19	24.1	14	1.59	10	-2.45	15	-4.71	16
17	HMM 1014	-36.97	33	-15.29	39	-56.18	41	-37.4	38	-25.62	39	-27.84	41	-40.1	39	-11.6	13	3.37	40	-26.3	36	-38.6	41	-43.1	42	-23.3	38	-21.71	39	-26.47	38
18	HMM 1019	-56.97	41	-4.94	17	-60.3	42	-25.78	33	-15.61	32	-24.97	40	-47	41	-31.3	40	10.7	36	-6.85	22	-29.2	38	-14.6	36	-27.6	39	-23.7	41	-26.27	37
19	IMHL-K-19-1	-3.65	9	-5.56	18	-25.84	32	6.73	5	3.06	4	-7.38	24	-22.4	35	-25.2	32	20.5	25	3.32	7	5.35	9	-20	37	-18.7	33	-8.39	26	-9.68	24
20	IWH 1407	-18.72	19	-10.09	31	-54.89	40	-52.05	42	-32.44	42	-28.41	42	-19.5	32	-35	42	7.75	37	-33.8	39	-40	42	-24.2	39	-34.2	42	-27.7	42	-35.74	42
21	IYH 1603	-48.61	38	-7.05	23	-33.71	37	-25.8	34	-16.75	34	-20.87	37	-27.2	37	-23.2	28	22.5	20	-4.63	18	-26.8	35	-1.65	33	-17	30	-16.17	36	-26.73	39
22	JH 18064	-16.3	17	-9.06	28	-6.53	15	13.91	1	5.82	1	5.35	6	37.23	1	-6.78	7	31.5	6	7.11	5	11.7	5	37.88	2	-1.85	15	4.23	2	6.11	2
23	JH 18065	-6.31	12	6.04	4	14.87	1	11.11	2	5.4	2	0.34	11	37.18	2	-20.5	25	22.5	21	-10.7	28	16.09	3	34.14	5	14.93	1	2.16	6	6.41	1
24	JH 18099	25.49	1	1.47	9	-25.34	31	-6.8	22	-2.93	16	-5.21	20	2.95	25	-16.2	19	42	3	-6.93	23	-24.7	34	13.89	24	-4.84	17	-4.52	20	-4.57	15
25	JH 32104	-28.34	26	-3.76	13	-17.89	23	2.66	9	-0.59	10	3.86	7	31.37	4	-9.6	10	22	23	-0.44	12	-13.6	30	29.58	8	-9.79	23	-4.56	21	-1.6	10
26	KMH 18-42	-54.61	39	-5.6	19	-31.54	35	-40.35	40	-23.68	37	-16.58	34	-38	38	-9.09	9	18.8	27	-22.2	34	-30	39	-37.4	41	-30.3	41	-15.77	35	-25.74	36
27	KMH 18-71	-56.3	40	-13.85	37	-18.5	24	-31.01	36	-24.73	38	-21.5	39	-51.7	42	-30.9	39	21	24	-22.7	35	-23.3	32	-9.5	35	-21	36	-17.71	37	-27.2	40
28	KNMH 4191	-26.6	25	12.87	1	-1.98	12	-5.57	17	0.49	8	-14.66	32	8.79	16	-17.6	20	22.1	22	-10.3	26	2.47	14	12.1	26	-0.89	14	-4.75	23	-7.58	20
29	KNMH 4192	-5.64	11	-8.85	27	13.01	2	-13.38	27	-9.75	25	1.07	10	17.26	9	-0.67	4	34.9	4	-0.01	11	-7.19	25	11.64	27	-9.55	22	1.01	9	-3.3	12
30	KNMH 4194	-37.49	34	-2.91	12	-24.4	30	-14.26	29	-8.64	23	-21.01	38	-6.47	29	-28.8	37	15.2	31	-11.8	29	-2.05	20	15.75	22	-18	32	-15.65	34	-20.08	33
31	LMH 4119	1.58	4	-6.71	22	-19.17	25	-28.7	35	-18.21	35	-15.01	33	22.28	6	-18.5	21	32.8	5	20.02	2	-11.9	28	10.79	28	-14.5	26	-9.85	28	-13.54	29
32	LMH 4219	-11.18	14	-15.85	40	-19.2	26	0.2	11	-7.84	22	-7.11	23	-8.94	30	-25.7	35	26.6	15	-12	30	-5.63	24	26.42	11	-15.2	28	-9.26	27	-12.13	26
33	LMH 4319	-33.6	29	-14.83	38	-22.46	27	-39.28	39	-29.63	41	-0.23	13	2.78	26	-11.7	14	7.33	38	-6.3	21	13.24	4	25.52	13	-7.57	20	-4.52	19	-20.03	32
34	LMH 4419	3.8	2	-11.64	34	-5.28	14	2.69	8	-1.71	13	3	8	13.75	13	-6.11	5	45.4	1	-4.03	16	-10.3	27	39.04	1	-0.16	12	2.04	7	-3.31	13
35	OMH17-19	-4.29	10	-4.78	16	-11.37	18	7.69	3	2.39	5	-8.48	25	5.68	22	-20.3	24	26	16	-27	37	10.97	7	23.82	15	-8.2	21	-3.95	17	1.91	5
36	OMH17-24	-29.88	28	2.75	7	5.34	5	-9.74	24	-3.42	19	6.09	4	4.98	23	-19.9	23	13.5	35	-4.09	17	19.75	2	6.57	30	-19.5	34	-4.73	22	-6.34	18
37	RCRMH 13	-35.1	31	-1.92	11	-15.3	21	-6.4	21	-3.3	18	-11.09	29	-19.9	33	-25.2	33	3.06	41	3.25	8	-1.74	18	9.8	29	-14.6	27	-12.19	31	-12.2	27
38	RCRMH 14	-24.83	23	-6.34	20	-16.61	22	-1.54	13	-6.19	21	-6.36	21	7.89	19	-8.23	8	24.3	17	-2.57	15	-3.1	21	20.69	18	-12.4	25	-6.35	25	-10.87	25
39	VaMH 16008	-38.2	35	3.82	6	0.41	8	-9.02	23	-3.14	17	-2.11	17	16.91	10	-25.3	34	14.1	34	-10.6	27	3.99	11	16.35	21	3.46	7	-3.99	18	-8.84	22
40	BIO 9544 (C)	0	5	0	10	0	9	0	12	0	9	0	12	0	27	0	3	0	42	0	10	0	17	0	32	0	11	0	10	0	7
41	CMH 08-292 (C)	-11.34	15	-11.53	32	-12.75	19	4.52	6	-1.94	15	-9.43	27	21.66	7	-19.8	22	30.3	10	4.45	6	2.79	12	21.94	17	12.13	3	-0.39	11	-1.49	9
42	DHM 121 (C)	-21.26	20	-7.25	25	1.98	7	-11.52	25	-10.43	26	-2.21	18	18.55	8	-21.9	27	30.5	9	-1.27	13	0.97	16	1.5	31	-6.64	18	-2.24	13	-9.43	23

Table No. : 4 **Trial No. 676 (NIVT, Medium Maturity)** **Yeild Kg/ha**

S. No.	Entry Name	CWZ												NEPZ											
		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BHUB		DHOL		RANC		SABO		ZONE	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	ADV 7745	9398	15	6331	1	9378	19	5589	13	5014	17	7475	7	8779	10	6126	32	6053	25	9020	2	5813	8	7489	13
2	DKC 8205	8505	23	5161	4	10093	14	5702	10	5338	8	7284	10	10010	1	6987	3	7592	6	8960	3	6518	3	8258	2
3	DKC 8209	8607	21	5617	3	9973	16	4820	29	7193	1	7878	4	9896	3	6746	9	7275	10	8935	4	5140	18	8262	1
4	GGMH-114	9967	9	3786	29	10720	10	4368	34	5029	16	7424	8	8608	13	6378	21	7056	15	7997	15	6764	1	7523	11
5	GK 3207	7917	30	3062	40	9244	22	5001	25	3283	41	5888	31	9050	6	6605	13	8125	3	7771	19	5047	22	7893	4
6	HKH-371	7007	34	5021	6	6916	36	5563	14	3787	33	5532	37	8041	20	5919	37	7143	12	5673	42	4226	38	6622	32
7	HKH-372	5452	42	3601	34	8144	31	4150	36	4155	29	5262	38	5955	39	6087	33	4820	39	6936	32	4366	35	5965	39
8	HM 19203	8045	28	3928	23	10870	7	5093	23	5139	15	7027	19	5680	42	6083	34	5710	29	7325	25	5127	19	6224	34
9	HM 19305	10312	5	4766	11	12135	3	3885	40	5159	14	7932	3	9046	8	6433	17	7377	8	8495	8	4998	24	7828	6
10	HT 519015	9247	16	5132	5	8769	28	5542	15	4781	19	7059	17	7581	24	6209	28	7139	13	8057	13	5351	13	7127	19
11	IAHM 2016-38	6357	38	3492	35	4502	41	5145	21	3607	37	4468	41	7714	23	5042	41	5735	28	6508	38	4742	31	6145	37
12	IAHM2016-2	7477	32	3605	33	6191	39	4927	26	4402	27	5574	36	6960	32	6151	30	4357	41	6229	41	4428	34	5789	40
13	IIMWH 1901	8452	25	2568	42	7398	35	6474	4	4303	28	5703	32	5913	40	6638	12	5477	33	6914	33	4571	33	6185	36
14	IMHSB-19K-10	7260	33	4789	10	4826	40	5100	22	3686	36	5165	39	7244	29	6794	8	4547	40	7102	29	2900	41	6349	33
15	IMHSB-19K-11	11197	2	3630	32	9902	17	4919	27	4640	22	7402	9	9048	7	6942	4	7629	5	7106	28	4970	25	7734	7
16	IMHSB-19K-2	9773	11	4959	7	10739	8	6932	2	4436	24	7266	12	8235	19	6368	22	7512	7	7870	18	5203	17	7650	9
17	IMHSB-19K-3	6814	36	2921	41	6525	37	5056	24	3716	35	4964	40	5999	38	4661	42	5505	32	6247	40	4273	37	5703	42
18	IMHSB-19K-4	10100	8	4038	22	8024	32	5448	17	5394	7	6823	23	8341	17	6723	10	5271	36	7701	20	4717	32	7015	25
19	IMHSB-19K-5	9028	17	4744	12	8948	25	7013	1	5277	10	6855	22	6640	35	6070	35	6137	24	7934	17	6040	6	6873	27
20	IMHSB-19K-6	7993	29	4176	21	10069	15	4367	35	5161	13	6821	24	6131	37	6929	5	6351	22	7613	22	5376	12	6656	31
21	IMHSB-19K-7	6040	40	3920	24	8604	30	3944	38	3319	40	5590	35	6817	34	6816	7	5537	31	8290	10	3006	40	6838	28
22	IMHSB-19K-8	9522	13	4285	19	8721	29	3042	42	3479	38	6488	28	8779	11	6154	29	5330	34	6269	39	4365	36	6669	30
23	IMHSB-19K-9	7538	31	4283	20	8983	23	6456	5	4875	18	6554	27	7364	27	6362	23	5543	30	8073	12	3488	39	6744	29
24	IMHVS-101	10203	7	4603	14	11197	6	3906	39	4778	21	7780	5	7396	26	5775	38	6785	17	8255	11	5304	15	7089	21
25	JKMH 1481	11952	1	4650	13	12448	2	3826	41	6355	4	8857	1	7009	31	7027	1	7100	14	8510	6	4760	30	7383	14
26	KH 518	9592	12	3882	25	10737	9	5683	11	7090	2	7754	6	7319	28	6558	14	7297	9	7221	27	4873	28	7137	18
27	KSP-5391	9003	18	3448	37	10707	11	5219	20	3278	42	6806	25	8462	16	6315	25	7204	11	6820	36	5449	10	7187	17
28	MH 1941	5570	41	3476	36	3456	42	4068	37	4083	30	4286	42	5874	41	5306	39	4998	37	6876	34	2641	42	5734	41
29	MH 1945	6838	35	5785	2	9282	21	4763	31	3377	39	6323	30	8836	9	6313	26	6266	23	6965	31	5280	16	7200	16
30	MH 1948	9963	10	4440	18	8885	27	4759	32	4779	20	6954	20	8568	14	6414	18	6440	20	8335	9	5929	7	7491	12
31	NMH 4144	10579	4	3665	31	13527	1	6315	6	3743	34	7961	2	9997	2	6994	2	8314	1	7611	23	5590	9	8214	3
32	PM 19101 M	8519	22	3852	26	6371	38	5337	18	6372	3	6404	29	7809	21	5177	40	4231	42	6710	37	4912	27	6026	38
33	PM 19102 M	10644	3	3338	38	8974	24	6749	3	5194	12	7074	16	8339	18	6408	19	6698	18	7970	16	6068	5	7321	15
34	PM 19103 M	8902	19	4912	8	9290	20	6057	7	3934	32	6687	26	9128	5	6382	20	8225	2	7311	26	6380	4	7668	8
35	SVMH-1130	8257	27	4851	9	8921	26	5681	12	5447	6	6910	21	7168	30	6360	24	6415	21	8049	14	5073	21	7065	23
36	SYN-916248	10290	6	3254	39	11923	4	5858	8	3975	31	7269	11	9539	4	6715	11	6591	19	9101	1	6588	2	7887	5
37	SYN916540	8862	20	3794	28	11418	5	4668	33	4420	26	7129	15	8536	15	6312	27	5837	27	6828	35	5331	14	6931	26
38	SYN916701	6317	39	4532	15	7811	33	5313	19	4492	23	5657	34	7503	25	6010	36	5879	26	8504	7	5038	23	7110	20
39	TS 2609	8301	26	4503	16	9711	18	5802	9	5316	9	7057	18	8725	12	6853	6	5330	35	7462	24	4920	26	7058	24
40	BIO 9544 (C)	9477	14	3836	27	10206	13	5464	16	5714	5	7154	13	6903	33	6477	16	6880	16	7641	21	5107	20	7077	22
41	CMH 08-292 (C)	8503	24	4498	17	10324	12	4805	30	5213	11	7142	14	7789	22	6504	15	7907	4	8627	5	5415	11	7646	10
42	DHM 121 (C)	6809	37	3779	30	7664	34	4844	28	4432	25	5663	33	6446	36	6146	31	4959	38	7067	30	4836	29	6213	35
	L Mean	8585.4	.	4212.3	.	9107.7	.	5182.3	.	4694.5	.	6650.0	.	7837.6	.	6315.8	.	6347.0	.	7592.5	.	5022.0	.	6971.5	.
	CV (%)	11.6	.	25.9	.	14.3	.	31.6	.	24.8	.	17.2	.	12.6	.	8.9	.	15.2	.	10.2	.	21.3	.	12.2	.
	F (Prob)	0.0	.	0.1	.	0.0	.	0.8	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.
	CD (5%)	1623.5	.	1777.8	.	2122.8	.	2666.7	.	1896.0	.	940.4	.	1606.8	.	912.6	.	1576.8	.	1285.6	.	1745.2	.	782.7	.
	CD (1%)	2156.5	.	2361.4	.	2819.7	.	3542.0	.	2518.4	.	1239.2	.	2134.3	.	1212.1	.	2094.3	.	1729.7	.	2318.1	.	1031.7	.

Table No. : 4 (Conti...) **Yeild Kg/ha**

S. No.	Entry Name	NWPZ										PZ																All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	ADV 7745	11614	8	8119	37	7425	22	10387	24	9531	19	8881	23	9986	18	9684	26	9558	6	7036	15	9057	19	7355	3	10453	27	9312	19	8590	15
2	DKC 8205	8888	36	8161	36	9124	6	11796	10	9783	16	9112	18	12541	3	11781	6	8684	18	6098	35	11064	4	6224	26	9365	35	9787	9	8898	6
3	DKC 8209	10734	18	9167	11	8403	12	12043	8	10059	12	9732	9	9798	22	10835	14	9490	7	6759	23	9943	11	6465	19	11241	15	9733	11	9112	3
4	GGMH-114	11531	10	8028	38	9345	5	11234	15	10012	13	7994	35	11469	8	11180	11	8691	17	7026	16	8378	28	6818	12	10889	20	9396	17	8720	11
5	GK 3207	10216	25	8989	14	9445	4	12474	6	10301	4	9185	16	6244	38	9596	29	8411	24	5858	39	9890	12	6967	11	11193	16	8646	29	8258	25
6	HKH-371	9376	34	8707	23	6330	36	10311	26	8704	31	8596	30	10990	11	8396	39	7500	35	6977	19	8045	34	6262	23	9312	37	8629	30	7576	33
7	HKH-372	8105	39	9103	12	7194	27	8254	38	8041	38	8619	29	8675	27	11594	10	6810	41	6502	28	7960	36	4429	41	8253	41	8424	34	7180	39
8	HM 19203	11609	9	9286	9	5351	39	10891	19	9075	27	9958	5	9844	21	9873	22	8720	16	8148	3	10029	10	6541	17	11647	7	9774	10	8317	24
9	HM 19305	9966	28	8314	33	7359	24	11178	17	9323	22	8081	34	12744	2	12050	4	8151	27	6094	36	10464	7	6492	18	12204	5	10033	3	8984	5
10	HT 519015	9480	32	8353	32	6532	34	10342	25	8842	30	9069	20	10704	13	11743	7	9616	4	6393	30	8065	33	5502	32	11591	9	9524	14	8318	23
11	IAHM 2016-38	8075	40	7949	40	7370	23	5862	42	7456	41	6848	42	11035	10	9300	34	5963	42	6473	29	7509	41	4376	42	7825	42	7892	39	6692	41
12	IAHM2016-2	10237	24	8691	24	6009	38	8726	34	8430	34	8861	24	7801	36	9157	35	7796	33	6269	33	9643	13	5896	28	10005	31	8339	37	7190	38
13	IIMWH 1901	11314	14	7991	39	5216	40	11372	14	9087	26	7492	39	8537	29	9124	36	7444	36	5956	38	8303	30	5570	31	9333	36	8011	38	7349	36
14	IMHSB-19K-10	10657	19	8523	28	7142	28	6076	41	8190	35	8587	31	7665	37	9587	30	7286	38	6345	31	6985	42	5810	30	12947	3	8402	35	7218	37
15	IMHSB-19K-11	14036	1	8969	15	8132	15	13113	2	10809	1	8422	32	9860	19	9728	24	8484	21	7584	8	9242	16	6277	22	10129	30	9080	26	8829	10
16	IMHSB-19K-2	10055	27	8823	18	7302	25	11232	16	9322	23	9071	19	11308	9	9964	20	9963	2	6603	27	7741	38	7061	6	10278	29	9456	16	8642	13
17	IMHSB-19K-3	11041	17	9172	10	4471	41	8445	37	8188	36	7086	40	5038	42	8388	40	7297	37	6819	22	8388	27	4579	39	8986	39	7460	41	6744	40
18	IMHSB-19K-4	10415	23	10185	1	8470	10	10881	20	10296	5	8220	33	8092	32	8535	38	9371	10	7275	14	10615	6	6979	10	10546	25	9068	27	8421	22
19	IMHSB-19K-5	11475	12	10050	2	7654	19	10457	23	9471	20	9484	12	8040	33	12133	3	9048	12	7286	13	10203	8	6701	14	10459	26	9715	12	8545	17
20	IMHSB-19K-6	9213	35	7708	42	6684	32	10692	21	8629	33	9027	22	9138	25	8630	37	8807	13	6289	32	8571	25	7004	9	10670	24	8646	28	7812	29
21	IMHSB-19K-7	9778	29	8730	21	6032	37	7562	40	8163	37	7624	37	8108	31	9645	27	8332	25	8069	5	8347	29	6249	24	9989	33	8574	31	7473	35
22	IMHSB-19K-8	11730	6	8805	19	7975	16	11684	11	10069	10	9492	11	5994	39	7964	42	6995	40	5983	37	8955	21	6609	16	10303	28	7864	40	7784	30
23	IMHSB-19K-9	8687	38	8892	17	7013	29	7685	39	7986	39	8632	28	8488	30	10666	16	8032	30	6639	25	7775	37	5821	29	9302	38	8386	36	7540	34
24	IMHVS-101	9476	33	8963	16	8950	9	11477	13	9572	18	9248	15	10865	12	11102	12	9343	11	7580	9	10923	5	6305	21	11400	13	9994	4	8833	8
25	JKMH 1481	10609	21	8254	35	6710	31	13363	1	9694	17	9751	8	12312	5	9969	19	8483	22	8149	2	9561	14	7040	7	14236	1	10300	2	9244	2
26	KH 518	9496	31	9289	8	7609	21	13096	3	9968	15	7561	38	12432	4	10950	13	9413	8	8080	4	9260	15	7112	4	11326	14	9856	7	8867	7
27	KSP-5391	12851	2	8296	34	8222	14	11535	12	10427	3	10170	2	10400	14	12409	1	8089	28	5742	41	9238	17	6818	13	10925	18	9490	15	8602	14
28	MH 1941	7698	41	9060	13	3346	42	9091	32	7345	42	6924	41	5461	41	8217	41	7206	39	5848	40	7710	39	5489	33	8864	40	7086	42	6243	42
29	MH 1945	5976	42	8769	20	6359	35	8847	33	7704	40	9052	21	7844	35	9610	28	7958	31	7007	17	8292	31	5367	34	10001	32	8532	32	7615	32
30	MH 1948	12802	3	9732	5	7653	20	10303	27	10066	11	8710	25	5927	40	10027	18	8448	23	7545	10	10105	9	6405	20	12952	2	9120	24	8539	18
31	NMH 4144	11493	11	8532	27	9004	7	12192	7	9983	14	10718	1	13041	1	11624	9	9827	3	6877	21	11174	3	7397	2	12297	4	10730	1	9465	1
32	PM 19101 M	10606	22	8411	31	6651	33	11066	18	9449	21	9963	4	8566	28	9773	23	8575	20	5397	42	8043	35	5181	37	9441	34	8476	33	7705	31
33	PM 19102 M	11665	7	8438	29	8226	13	12937	4	10119	7	7910	36	9598	24	11708	8	9573	5	7595	7	7519	40	8070	1	10718	22	9229	21	8566	16
34	PM 19103 M	11129	15	9768	4	7682	18	11814	9	10097	8	8700	26	8025	34	9703	25	8592	19	6912	20	11263	2	7087	5	10902	19	9095	25	8485	20
35	SVMH-1130	8786	37	8709	22	8961	8	9240	30	8947	28	8654	27	10121	17	10473	17	8078	29	7894	6	11484	1	5265	36	11615	8	9794	8	8444	21
36	SYN-916248	11101	16	9550	6	10121	1	9981	28	10138	6	10156	3	10293	15	12300	2	10315	1	6628	26	8900	22	5933	27	10967	17	9957	5	8987	4
37	SYN916540	10111	26	8597	26	7277	26	10489	22	8932	29	9696	10	11983	6	11988	5	8784	14	7003	18	9019	20	6627	15	10812	21	9882	6	8497	19
38	SYN916701	12587	4	8418	30	7763	17	8581	36	9256	24	9390	14	10292	16	9409	32	7614	34	7437	11	8273	32	5281	35	11970	6	9377	18	8142	27
39	TS 2609	10629	20	7947	41	6871	30	9233	31	8668	32	9870	6	9851	20	9491	31	7893	32	8190	1	8564	26	4553	40	11492	12	9223	22	8173	26
40	BIO 9544 (C)	11457	13	9459	7	9654	3	12928	5	10767	2	9422	13	9083	26	10827	15	9388	9	6740	24	9175	18	6249	25	11552	11	9567	13	8831	9
41	CMH 08-292 (C)	12191	5	9794	3	10108	2	8677	35	10074	9	9137	17	11614	7	9904	21	8765	15	6221	34	8772	23	7033	8	11589	10	9302	20	8648	12
42	DHM 121 (C)	9695	30	8619	25	8464	11	9683	29	9212	25	9795	7	9737	23	9385	33	8191	26	7386	12	8580	24	4580	38	10698	23	9163	23	7823	28
	L Mean	10442.6	.	8793.3	.	7514.5	.	10410.3	.	9290.2	.	8878.5	.	9513.0	.	10200.5	.	8452.0	.	6874.1	.	9072.1	.	6185.2	.	10730.4	.	9103.0	.	8198.8	.
	CV (%)	19.0	.	10.5	.	19.1	.	16.3	.	16.8	.	10.6	.	17.8	.	12.3	.	9.8	.	14.4	.	17.1	.	15.3	.	12.0	.	13.8	.	15.2	.
	F (Prob)	0.1	.	0.4	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.1	.	0.1	.	0.0	.	0.0	.	0.0	.	0.0	.
	CD (5%)	3233.4	.	1505.1	.	2334.2	.	2767.9	.	1288.5	.	1534.8	.	2766.1	.	2049.1	.	1344.0	.	1614.1	.	2521.1	.	1546.7	.	2091.2	.	809.6	.	486.6	.
	CD (1%)	4294.9	.	1999.1	.	3100.5	.	3676.4	.	1697.9	.	2038.6	.	3674.0	.	2721.8	.	1785.2	.	2144.0	.	3348.7	.	2054.4	.	2777.7	.	1065.6	.	639.8	.

Table No. : 4 (Conti...) **Gain in yield (%) over BIO 9544**

S. No.	Entry Name	CWZ												NEPZ											
		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BHUB		DHOL		RANC		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADV 7745	-0.83	15	65.05	1	-8.11	19	2.29	13	-12.26	17	4.49	7	27.17	10	-5.42	32	-12.01	25	18.04	2	13.84	8	5.83	13
2	DKC 8205	-10.26	23	34.56	4	-1.1	14	4.36	10	-6.59	8	1.81	10	45	1	7.88	3	10.35	6	17.26	3	27.63	3	16.69	2
3	DKC 8209	-9.18	21	46.43	3	-2.28	16	-11.78	29	25.88	1	10.12	4	43.35	3	4.16	9	5.73	10	16.93	4	0.66	18	16.75	1
4	GGMH-114	5.17	9	-1.3	29	5.04	10	-20.05	34	-11.99	16	3.78	8	24.69	13	-1.53	21	2.56	15	4.65	15	32.47	1	6.31	11
5	GK 3207	-16.46	30	-20.18	40	-9.43	22	-8.47	25	-42.55	41	-17.7	31	31.1	6	1.97	13	18.1	3	1.7	19	-1.16	22	11.54	4
6	HKH-371	-26.06	34	30.91	6	-32.23	36	1.82	14	-33.73	33	-22.68	37	16.48	20	-8.61	37	3.82	12	-25.77	42	-17.24	38	-6.43	32
7	HKH-372	-42.47	42	-6.13	34	-20.2	31	-24.05	36	-27.28	29	-26.45	38	-13.74	39	-6.02	33	-29.95	39	-9.24	32	-14.5	35	-15.7	39
8	HM 19203	-15.11	28	2.42	23	6.51	7	-6.79	23	-10.07	15	-1.77	19	-17.72	42	-6.09	34	-17.01	29	-4.14	25	0.4	19	-12.05	34
9	HM 19305	8.81	5	24.24	11	18.91	3	-28.89	40	-9.72	14	10.88	3	31.03	8	-0.68	17	7.23	8	11.16	8	-2.13	24	10.61	6
10	HT 519015	-2.43	16	33.81	5	-14.07	28	1.43	15	-16.33	19	-1.33	17	9.81	24	-4.14	28	3.77	13	5.44	13	4.78	13	0.72	19
11	IAHM 2016-38	-32.92	38	-8.95	35	-55.88	41	-5.84	21	-36.87	37	-37.54	41	11.75	23	-22.16	41	-16.64	28	-14.83	38	-7.13	31	-13.16	37
12	IAHM2016-2	-21.1	32	-6.01	33	-39.33	39	-9.83	26	-22.96	27	-22.09	36	0.82	32	-5.04	30	-36.68	41	-18.49	41	-13.29	34	-18.19	40
13	IIMWH 1901	-10.81	25	-33.04	42	-27.51	35	18.48	4	-24.69	28	-20.28	32	-14.35	40	2.49	12	-20.39	33	-9.53	33	-10.5	33	-12.6	36
14	IMHSB-19K-10	-23.39	33	24.86	10	-52.71	40	-6.67	22	-35.5	36	-27.81	39	4.93	29	4.9	8	-33.91	40	-7.06	29	-43.21	41	-10.28	33
15	IMHSB-19K-11	18.15	2	-5.37	32	-2.97	17	-9.97	27	-18.81	22	3.47	9	31.07	7	7.19	4	10.88	5	-7.01	28	-2.68	25	9.29	7
16	IMHSB-19K-2	3.12	11	29.29	7	5.22	8	26.87	2	-22.37	24	1.57	12	19.28	19	-1.68	22	9.19	7	2.99	18	1.9	17	8.11	9
17	IMHSB-19K-3	-28.09	36	-23.86	41	-36.06	37	-7.46	24	-34.97	35	-30.62	40	-13.1	38	-28.03	42	-19.99	32	-18.25	40	-16.32	37	-19.41	42
18	IMHSB-19K-4	6.58	8	5.27	22	-21.37	32	-0.28	17	-5.61	7	-4.62	23	20.82	17	3.8	10	-23.39	36	0.77	20	-7.62	32	-0.88	25
19	IMHSB-19K-5	-4.73	17	23.68	12	-12.32	25	28.35	1	-7.65	10	-4.18	22	-3.82	35	-6.28	35	-10.8	24	3.83	17	18.28	6	-2.88	27
20	IMHSB-19K-6	-15.66	29	8.88	21	-1.34	15	-20.08	35	-9.68	13	-4.65	24	-11.19	37	6.99	5	-7.69	22	-0.38	22	5.28	12	-5.95	31
21	IMHSB-19K-7	-36.26	40	2.21	24	-15.69	30	-27.82	38	-41.92	40	-21.86	35	-1.25	34	5.23	7	-19.53	31	8.48	10	-41.13	40	-3.38	28
22	IMHSB-19K-8	0.47	13	11.7	19	-14.54	29	-44.32	42	-39.11	38	-9.31	28	27.17	11	-4.99	29	-22.53	34	-17.97	39	-14.53	36	-5.76	30
23	IMHSB-19K-9	-20.46	31	11.66	20	-11.98	23	18.15	5	-14.69	18	-8.39	27	6.68	27	-1.77	23	-19.43	30	5.65	12	-31.7	39	-4.7	29
24	IMHVS-101	7.66	7	20.01	14	9.71	6	-28.52	39	-16.38	21	8.75	5	7.13	26	-10.84	38	-1.38	17	8.03	11	3.86	15	0.17	21
25	JKMH 1481	26.12	1	21.23	13	21.98	2	-29.97	41	11.21	4	23.81	1	1.53	31	8.5	1	3.2	14	11.36	6	-6.79	30	4.33	14
26	KH 518	1.21	12	1.21	25	5.2	9	4.01	11	24.08	2	8.39	6	6.02	28	1.26	14	6.06	9	-5.5	27	-4.56	28	0.86	18
27	KSP-5391	-5	18	-10.1	37	4.91	11	-4.47	20	-42.63	42	-4.86	25	22.57	16	-2.49	25	4.71	11	-10.75	36	6.7	10	1.56	17
28	MH 1941	-41.22	41	-9.38	36	-66.13	42	-25.55	37	-28.54	30	-40.08	42	-14.91	41	-18.08	39	-27.36	37	-10.02	34	-48.29	42	-18.97	41
29	MH 1945	-27.85	35	50.82	2	-9.05	21	-12.82	31	-40.9	39	-11.61	30	28	9	-2.53	26	-8.92	23	-8.85	31	3.39	16	1.75	16
30	MH 1948	5.13	10	15.76	18	-12.94	27	-12.89	32	-16.38	20	-2.8	20	24.11	14	-0.98	18	-6.4	20	9.07	9	16.11	7	5.85	12
31	NMH 4144	11.63	4	-4.46	31	32.54	1	15.59	6	-34.49	34	11.28	2	44.81	2	7.99	2	20.84	1	-0.39	23	9.46	9	16.08	3
32	PM 19101 M	-10.11	22	0.42	26	-37.57	38	-2.31	18	11.52	3	-10.48	29	13.12	21	-20.07	40	-38.5	42	-12.18	37	-3.8	27	-14.84	38
33	PM 19102 M	12.32	3	-12.99	38	-12.07	24	23.53	3	-9.1	12	-1.12	16	20.8	18	-1.07	19	-2.65	18	4.3	16	18.84	5	3.45	15
34	PM 19103 M	-6.07	19	28.06	8	-8.98	20	10.86	7	-31.16	32	-6.53	26	32.22	5	-1.47	20	19.54	2	-4.33	26	24.93	4	8.37	8
35	SVMH-1130	-12.88	27	26.48	9	-12.58	26	3.97	12	-4.67	6	-3.42	21	3.83	30	-1.8	24	-6.76	21	5.34	14	-0.65	21	-0.16	23
36	SYN-916248	8.58	6	-15.16	39	16.83	4	7.22	8	-30.43	31	1.61	11	38.17	4	3.67	11	-4.21	19	19.1	1	29.02	2	11.45	5
37	SYN916540	-6.49	20	-1.08	28	11.88	5	-14.56	33	-22.64	26	-0.35	15	23.65	15	-2.55	27	-15.16	27	-10.64	35	4.39	14	-2.06	26
38	SYN916701	-33.35	39	18.15	15	-23.46	33	-2.76	19	-21.39	23	-20.93	34	8.69	25	-7.21	36	-14.54	26	11.29	7	-1.34	23	0.47	20
39	TS 2609	-12.41	26	17.39	16	-4.85	18	6.19	9	-6.96	9	-1.36	18	26.39	12	5.81	6	-22.53	35	-2.34	24	-3.66	26	-0.27	24
40	BIO 9544 (C)	0	14	0	27	0	13	0	16	0	5	0	13	0	33	0	16	0	16	0	21	0	20	0	22
41	CMH 08-292 (C)	-10.28	24	17.26	17	1.16	12	-12.05	30	-8.77	11	-0.16	14	12.82	22	0.42	15	14.93	4	12.89	5	6.05	11	8.05	10
42	DHM 121 (C)	-28.15	37	-1.47	30	-24.91	34	-11.34	28	-22.43	25	-20.84	33	-6.63	36	-5.11	31	-27.93	38	-7.52	30	-5.3	29	-12.2	35

Table No. : 4 (Conti...) **Gain in yield (%) over BIO 9544**

S. No.	Entry Name	NWPZ										PZ															
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADV 7745	1.37	8	-14.17	37	-23.09	22	-19.66	24	-11.48	19	-5.74	23	9.95	18	-10.56	26	1.81	6	4.39	15	-1.28	19	17.7	3	-9.51	27	-2.66	19
2	DKC 8205	-22.43	36	-13.73	36	-5.49	6	-8.76	10	-9.15	16	-3.29	18	38.08	3	8.81	6	-7.5	18	-9.53	35	20.59	4	-0.4	26	-18.93	35	2.31	9
3	DKC 8209	-6.31	18	-3.09	11	-12.96	12	-6.84	8	-6.58	12	3.29	9	7.87	22	0.07	14	1.09	7	0.27	23	8.37	11	3.46	19	-2.7	15	1.74	11
4	GGMH-114	0.65	10	-15.13	38	-3.2	5	-13.1	15	-7.01	13	-15.15	35	26.27	8	3.25	11	-7.43	17	4.24	16	-8.69	28	9.1	12	-5.74	20	-1.79	17
5	GK 3207	-10.83	25	-4.97	14	-2.17	4	-3.51	6	-4.33	4	-2.52	16	-31.25	38	-11.37	29	-10.41	24	-13.09	39	7.8	12	11.48	11	-3.11	16	-9.62	29
6	HKH-371	-18.16	34	-7.96	23	-34.43	36	-20.24	26	-19.16	31	-8.77	30	21	11	-22.46	39	-20.11	35	3.5	19	-12.32	34	0.21	23	-19.4	37	-9.8	30
7	HKH-372	-29.26	39	-3.77	12	-25.48	27	-36.15	38	-25.32	38	-8.52	29	-4.49	27	7.08	10	-27.47	41	-3.54	28	-13.24	36	-29.12	41	-28.56	41	-11.95	34
8	HM 19203	1.33	9	-1.83	9	-44.57	39	-15.75	19	-15.72	27	5.69	5	8.38	21	-8.81	22	-7.12	16	20.88	3	9.31	10	4.68	17	0.82	7	2.17	10
9	HM 19305	-13.01	28	-12.11	33	-23.77	24	-13.53	17	-13.41	22	-14.23	34	40.31	2	11.3	4	-13.18	27	-9.59	36	14.05	7	3.88	18	5.64	5	4.87	3
10	HT 519015	-17.26	32	-11.7	32	-32.33	34	-20	25	-17.88	30	-3.74	20	17.85	13	8.46	7	2.43	4	-5.15	30	-12.1	33	-11.96	32	0.33	9	-0.45	14
11	IAHM 2016-38	-29.52	40	-15.96	40	-23.66	23	-54.66	42	-30.76	41	-27.32	42	21.5	10	-14.1	34	-36.48	42	-3.96	29	-18.16	41	-29.98	42	-32.26	42	-17.5	39
12	IAHM2016-2	-10.65	24	-8.12	24	-37.76	38	-32.5	34	-21.71	34	-5.95	24	-14.11	36	-15.43	35	-16.95	33	-6.99	33	5.1	13	-5.65	28	-13.39	31	-12.83	37
13	IIMWH 1901	-1.25	14	-15.52	39	-45.97	40	-12.04	14	-15.6	26	-20.49	39	-6.01	29	-15.73	36	-20.71	36	-11.64	38	-9.5	30	-10.86	31	-19.21	36	-16.26	38
14	IMHSB-19K-10	-6.98	19	-9.9	28	-26.03	28	-53	41	-23.93	35	-8.86	31	-15.61	37	-11.46	30	-22.39	38	-5.87	31	-23.87	42	-7.03	30	12.08	3	-12.18	35
15	IMHSB-19K-11	22.51	1	-5.18	15	-15.76	15	1.43	2	0.39	1	-10.62	32	8.56	19	-10.15	24	-9.63	21	12.52	8	0.73	16	0.45	22	-12.32	30	-5.09	26
16	IMHSB-19K-2	-12.24	27	-6.73	18	-24.36	25	-13.12	16	-13.43	23	-3.73	19	24.5	9	-7.97	20	6.13	2	-2.04	27	-15.63	38	12.99	6	-11.03	29	-1.16	16
17	IMHSB-19K-3	-3.63	17	-3.04	10	-53.68	41	-34.68	37	-23.95	36	-24.79	40	-44.54	42	-22.53	40	-22.27	37	1.16	22	-8.58	27	-26.73	39	-22.21	39	-22.02	41
18	IMHSB-19K-4	-9.1	23	7.67	1	-12.26	10	-15.83	20	-4.38	5	-12.76	33	-10.91	32	-21.17	38	-0.19	10	7.94	14	15.7	6	11.68	10	-8.71	25	-5.21	27
19	IMHSB-19K-5	0.16	12	6.24	2	-20.71	19	-19.11	23	-12.04	20	0.66	12	-11.49	33	12.06	3	-3.63	12	8.1	13	11.2	8	7.24	14	-9.46	26	1.55	12
20	IMHSB-19K-6	-19.58	35	-18.52	42	-30.77	32	-17.29	21	-19.86	33	-4.19	22	0.61	25	-20.3	37	-6.19	13	-6.7	32	-6.58	25	12.08	9	-7.64	24	-9.62	28
21	IMHSB-19K-7	-14.66	29	-7.71	21	-37.51	37	-41.51	40	-24.19	37	-19.08	37	-10.73	31	-10.92	27	-11.25	25	19.71	5	-9.02	29	0	24	-13.53	33	-10.38	31
22	IMHSB-19K-8	2.38	6	-6.91	19	-17.39	16	-9.63	11	-6.49	10	0.75	11	-34.01	39	-26.44	42	-25.49	40	-11.24	37	-2.4	21	5.75	16	-10.81	28	-17.8	40
23	IMHSB-19K-9	-24.18	38	-5.99	17	-27.36	29	-40.56	39	-25.83	39	-8.39	28	-6.55	30	-1.49	16	-14.45	30	-1.5	25	-15.26	37	-6.85	29	-19.48	38	-12.34	36
24	IMHVS-101	-17.29	33	-5.25	16	-7.29	9	-11.23	13	-11.1	18	-1.85	15	19.62	12	2.54	12	-0.48	11	12.46	9	19.05	5	0.9	21	-1.32	13	4.47	4
25	JKMH 1481	-7.41	21	-12.74	35	-30.5	31	3.37	1	-9.97	17	3.49	8	35.55	5	-7.92	19	-9.65	22	20.9	2	4.21	14	12.66	7	23.23	1	7.66	2
26	KH 518	-17.12	31	-1.8	8	-21.18	21	1.3	3	-7.42	15	-19.75	38	36.87	4	1.13	13	0.26	8	19.88	4	0.93	15	13.81	4	-1.96	14	3.02	7
27	KSP-5391	12.17	2	-12.29	34	-14.83	14	-10.78	12	-3.16	3	7.94	2	14.5	14	14.61	1	-13.84	28	-14.81	41	0.69	17	9.1	13	-5.43	18	-0.8	15
28	MH 1941	-32.81	41	-4.22	13	-65.34	42	-29.68	32	-31.78	42	-26.51	41	-39.88	41	-24.11	41	-23.25	39	-13.24	40	-15.97	39	-12.17	33	-23.27	40	-25.93	42
29	MH 1945	-47.84	42	-7.3	20	-34.13	35	-31.57	33	-28.45	40	-3.93	21	-13.64	35	-11.24	28	-15.23	31	3.95	17	-9.63	31	-14.11	34	-13.43	32	-10.81	32
30	MH 1948	11.74	3	2.88	5	-20.72	20	-20.3	27	-6.51	11	-7.56	25	-34.75	40	-7.39	18	-10.02	23	11.94	10	10.14	9	2.49	20	12.11	2	-4.67	24
31	NMH 4144	0.32	11	-9.81	27	-6.73	7	-5.69	7	-7.28	14	13.76	1	43.58	1	7.36	9	4.68	3	2.02	21	21.79	3	18.37	2	6.45	4	12.17	1
32	PM 19101 M	-7.43	22	-11.08	31	-31.1	33	-14.4	18	-12.24	21	5.74	4	-5.7	28	-9.74	23	-8.66	20	-19.93	42	-12.34	35	-17.09	37	-18.28	34	-11.4	33
33	PM 19102 M	1.82	7	-10.79	29	-14.8	13	0.07	4	-6.02	7	-16.04	36	5.67	24	8.13	8	1.97	5	12.67	7	-18.05	40	29.13	1	-7.22	22	-3.53	21
34	PM 19103 M	-2.86	15	3.26	4	-20.43	18	-8.62	9	-6.22	8	-7.66	26	-11.64	34	-10.38	25	-8.48	19	2.54	20	22.76	2	13.41	5	-5.63	19	-4.93	25
35	SVMH-1130	-23.32	37	-7.93	22	-7.18	8	-28.53	30	-16.91	28	-8.15	27	11.43	17	-3.27	17	-13.95	29	17.11	6	25.16	1	-15.75	36	0.54	8	2.37	8
36	SYN-916248	-3.11	16	0.95	6	4.84	1	-22.8	28	-5.84	6	7.79	3	13.33	15	13.61	2	9.87	1	-1.67	26	-3	22	-5.06	27	-5.07	17	4.08	5
37	SYN916540	-11.75	26	-9.12	26	-24.63	26	-18.86	22	-17.05	29	2.91	10	31.93	6	10.72	5	-6.43	14	3.9	18	-1.7	20	6.04	15	-6.41	21	3.29	6
38	SYN916701	9.87	4	-11.01	30	-19.59	17	-33.63	36	-14.04	24	-0.34	14	13.31	16	-13.1	32	-18.9	34	10.33	11	-9.83	32	-15.49	35	3.61	6	-1.98	18
39	TS 2609	-7.22	20	-15.99	41	-28.83	30	-28.58	31	-19.5	32	4.75	6	8.46	20	-12.34	31	-15.93	32	21.51	1	-6.66	26	-27.15	40	-0.52	12	-3.6	22
40	BIO 9544 (C)	0	13	0	7	0	3	0	5	0	2	0	13	0	26	0	15	0	9	0	24	0	18	0	25	0	11	0	13
41	CMH 08-292 (C)	6.41	5	3.54	3	4.7	2	-32.88	35	-6.44	9	-3.02	17	27.87	7	-8.52	21	-6.64	15	-7.7	34	-4.4	23	12.54	8	0.32	10	-2.76	20
42	DHM 121 (C)	-15.38	30	-8.88	25	-12.33	11	-25.1	29	-14.45	25	3.96	7	7.2	23	-13.32	33	-12.75	26	9.57	12	-6.48	24	-26.71	38	-7.4	23	-4.22	23

Table No. : 4 (Conti...)				Gain in yield (%) over CMH 08-292																					
				CWZ												NEPZ									
S. No.	Entry Name	All India		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BHUB		DHOL		RANC		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADV 7745	-2.72	15	10.52	15	40.76	1	-9.16	19	16.31	13	-3.83	17	4.65	7	12.72	10	-5.82	32	-23.44	25	4.56	2	7.35	8	-2.06	13
2	DKC 8205	0.76	6	0.02	23	14.75	4	-2.24	14	18.66	10	2.39	8	1.98	10	28.52	1	7.43	3	-3.98	6	3.87	3	20.35	3	7.99	2
3	DKC 8209	3.18	3	1.22	21	24.87	3	-3.4	16	0.31	29	37.98	1	10.3	4	27.06	3	3.72	9	-8	10	3.57	4	-5.08	18	8.05	1
4	GGMH-114	-1.26	11	17.21	9	-15.83	29	3.84	10	-9.1	34	-3.53	16	3.94	8	10.51	13	-1.94	21	-10.76	15	-7.3	15	24.91	1	-1.61	11
5	GK 3207	-6.49	25	-6.89	30	-31.93	40	-10.46	22	4.08	25	-37.03	41	-17.57	31	16.2	6	1.55	13	2.76	3	-9.91	19	-6.8	22	3.22	4
6	HKH-371	-14.21	33	-17.59	34	11.64	6	-33.01	36	15.78	14	-27.36	33	-22.55	37	3.24	20	-8.99	37	-9.66	12	-34.24	42	-21.96	38	-13.4	32
7	HKH-372	-18.7	39	-35.89	42	-19.95	34	-21.11	31	-13.64	36	-20.3	29	-26.33	38	-23.54	39	-6.41	33	-39.05	39	-19.6	32	-19.38	35	-21.98	39
8	HM 19203	-5.82	24	-5.38	28	-12.66	23	5.29	7	5.99	23	-1.43	15	-1.62	19	-27.07	42	-6.48	34	-27.79	29	-15.09	25	-5.33	19	-18.6	34
9	HM 19305	1.73	5	21.27	5	5.95	11	17.55	3	-19.15	40	-1.04	14	11.06	3	16.14	8	-1.1	17	-6.7	8	-1.53	8	-7.71	24	2.37	6
10	HT 519015	-5.81	23	8.75	16	14.11	5	-15.06	28	15.33	15	-8.29	19	-1.17	17	-2.67	24	-4.54	28	-9.71	13	-6.61	13	-1.2	13	-6.79	19
11	IAHM 2016-38	-24.23	41	-25.24	38	-22.35	35	-56.39	41	7.06	21	-30.8	37	-37.44	41	-0.95	23	-22.48	41	-27.47	28	-24.56	38	-12.43	31	-19.64	37
12	IAHM2016-2	-18.58	38	-12.07	32	-19.84	33	-40.03	39	2.53	26	-15.55	27	-21.96	36	-10.64	32	-5.43	30	-44.9	41	-27.8	41	-18.24	34	-24.29	40
13	IIMWH 1901	-16.78	36	-0.6	25	-42.9	42	-28.34	35	34.72	4	-17.45	28	-20.15	32	-24.09	40	2.06	12	-30.73	33	-19.86	33	-15.6	33	-19.12	36
14	IMHSB-19K-10	-18.27	37	-14.62	33	6.48	10	-53.25	40	6.13	22	-29.3	36	-27.69	39	-7	29	4.46	8	-42.49	40	-17.67	29	-46.45	41	-16.97	33
15	IMHSB-19K-11	-0.03	10	31.69	2	-19.3	32	-4.08	17	2.37	27	-11	22	3.64	9	16.17	7	6.74	4	-3.52	5	-17.63	28	-8.23	25	1.14	7
16	IMHSB-19K-2	-2.14	13	14.93	11	10.26	7	4.02	8	44.26	2	-14.91	24	1.74	12	5.72	19	-2.09	22	-5	7	-8.77	18	-3.91	17	0.05	9
17	IMHSB-19K-3	-23.63	40	-19.86	36	-35.06	41	-36.79	37	5.22	24	-28.72	35	-30.5	40	-22.98	38	-28.33	42	-30.38	32	-27.59	40	-21.09	37	-25.42	42
18	IMHSB-19K-4	-4.65	22	18.78	8	-10.22	22	-22.27	32	13.38	17	3.47	7	-4.47	23	7.09	17	3.36	10	-33.34	36	-10.73	20	-12.89	32	-8.26	25
19	IMHSB-19K-5	-3.24	17	6.18	17	5.48	12	-13.33	25	45.94	1	1.23	10	-4.03	22	-14.75	35	-6.67	35	-22.39	24	-8.03	17	11.53	6	-10.12	27
20	IMHSB-19K-6	-11.54	29	-6	29	-7.14	21	-2.47	15	-9.12	35	-1	13	-4.5	24	-21.28	37	6.54	5	-19.68	22	-11.75	22	-0.72	12	-12.96	31
21	IMHSB-19K-7	-15.37	35	-28.96	40	-12.84	24	-16.65	30	-17.92	38	-36.34	40	-21.73	35	-12.47	34	4.79	7	-29.98	31	-3.91	10	-44.49	40	-10.58	28
22	IMHSB-19K-8	-11.85	30	11.98	13	-4.74	19	-15.52	29	-36.69	42	-33.26	38	-9.16	28	12.71	11	-5.38	29	-32.59	34	-27.33	39	-19.4	36	-12.79	30
23	IMHSB-19K-9	-14.62	34	-11.35	31	-4.77	20	-12.99	23	34.35	5	-6.49	18	-8.24	27	-5.45	27	-2.18	23	-29.9	30	-6.42	12	-35.59	39	-11.8	29
24	IMHVS-101	0.02	8	19.99	7	2.34	14	8.46	6	-18.72	39	-8.35	21	8.92	5	-5.05	26	-11.21	38	-14.19	17	-4.31	11	-2.06	15	-7.3	21
25	JKMH 1481	4.68	2	40.56	1	3.39	13	20.58	2	-20.37	41	21.89	4	24.01	1	-10.01	31	8.04	1	-10.2	14	-1.36	6	-12.1	30	-3.45	14
26	KH 518	0.41	7	12.8	12	-13.68	25	4	9	18.26	11	36.01	2	8.57	6	-6.03	28	0.84	14	-7.71	9	-16.29	27	-10.01	28	-6.66	18
27	KSP-5391	-2.59	14	5.88	18	-23.33	37	3.71	11	8.62	20	-37.12	42	-4.71	25	8.64	16	-2.9	25	-8.89	11	-20.94	36	0.61	10	-6.01	17
28	MH 1941	-29.3	42	-34.49	41	-22.71	36	-66.52	42	-15.35	37	-21.67	30	-39.99	42	-24.58	41	-18.42	39	-36.8	37	-20.29	34	-51.24	42	-25.01	41
29	MH 1945	-13.77	32	-19.58	35	28.62	2	-10.09	21	-0.87	31	-35.22	39	-11.47	30	13.45	9	-2.94	26	-20.75	23	-19.26	31	-2.5	16	-5.83	16
30	MH 1948	-3.3	18	17.17	10	-1.28	18	-13.94	27	-0.95	32	-8.34	20	-2.64	20	10.01	14	-1.39	18	-18.56	20	-3.38	9	9.48	7	-2.04	12
31	NMH 4144	7.17	1	24.42	4	-18.52	31	31.03	1	31.43	6	-28.2	34	11.46	2	28.35	2	7.54	2	5.15	1	-11.77	23	3.22	9	7.43	3
32	PM 19101 M	-12.75	31	0.19	22	-14.36	26	-38.29	38	11.08	18	22.23	3	-10.34	29	0.26	21	-20.4	40	-46.48	42	-22.21	37	-9.29	27	-21.19	38
33	PM 19102 M	-3	16	25.18	3	-25.79	38	-13.08	24	40.46	3	-0.37	12	-0.96	16	7.07	18	-1.48	19	-15.29	18	-7.61	16	12.06	5	-4.26	15
34	PM 19103 M	-3.92	20	4.69	19	9.21	8	-10.02	20	26.06	7	-24.55	32	-6.38	26	17.19	5	-1.88	20	4.02	2	-15.26	26	17.81	4	0.29	8
35	SVMH-1130	-4.39	21	-2.9	27	7.86	9	-13.58	26	18.22	12	4.49	6	-3.26	21	-7.97	30	-2.21	24	-18.87	21	-6.69	14	-6.32	21	-7.6	23
36	SYN-916248	1.76	4	21.02	6	-27.64	39	15.49	4	21.92	8	-23.75	31	1.77	11	22.47	4	3.24	11	-16.65	19	5.5	1	21.66	2	3.14	5
37	SYN916540	-3.78	19	4.22	20	-15.64	28	10.6	5	-2.85	33	-15.21	26	-0.19	15	9.6	15	-2.96	27	-26.18	27	-20.84	35	-1.56	14	-9.36	26
38	SYN916701	-7.8	27	-25.71	39	0.76	15	-24.34	33	10.57	19	-13.83	23	-20.8	34	-3.67	25	-7.6	36	-25.64	26	-1.42	7	-6.96	23	-7.02	20
39	TS 2609	-7.45	26	-2.38	26	0.11	16	-5.94	18	20.75	9	1.98	9	-1.2	18	12.02	12	5.37	6	-32.59	35	-13.5	24	-9.15	26	-7.7	24
40	BIO 9544 (C)	0	9	11.45	14	-14.72	27	-1.14	13	13.71	16	9.61	5	0.16	13	-11.37	33	-0.42	16	-12.99	16	-11.42	21	-5.7	20	-7.45	22
41	CMH 08-292 (C)	-2.08	12	0	24	0	17	0	12	0	30	0	11	0	14	0	22	0	15	0	4	0	5	0	11	0	10
42	DHM 121 (C)	-11.41	28	-19.92	37	-15.98	30	-25.77	34	0.81	28	-14.98	25	-20.71	33	-17.24	36	-5.51	31	-37.29	38	-18.08	30	-10.7	29	-18.75	35

Table No. : 4 (Conti...) **Gain in yield (%) over CMH 08-292**

S. No.	Entry Name	NWPZ										PZ																		All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADV 7745	-4.74	8	-17.1	37	-26.54	22	19.71	24	-5.39	19	-2.8	23	-14.01	18	-2.23	26	9.05	6	13.1	15	3.26	19	4.58	3	-9.8	27	0.11	19	-0.66	15
2	DKC 8205	-27.1	36	-16.67	36	-9.74	6	35.95	10	-2.9	16	-0.27	18	7.98	3	18.94	6	-0.92	18	-1.98	35	26.14	4	-11.5	26	-19.19	35	5.22	9	2.9	6
3	DKC 8209	-11.95	18	-6.4	11	-16.87	12	38.8	8	-0.15	12	6.51	9	-15.64	22	9.4	14	8.28	7	8.64	23	13.36	11	-8.07	19	-3.01	15	4.63	11	5.37	3
4	GGMH-114	-5.42	10	-18.03	38	-7.55	5	29.47	15	-0.61	13	-12.51	35	-1.25	8	12.88	11	-0.84	17	12.94	16	-4.49	28	-3.06	12	-6.05	20	1.01	17	0.84	11
5	GK 3207	-16.2	25	-8.21	14	-6.56	4	43.77	6	2.25	4	0.52	16	-46.23	38	-3.12	29	-4.04	24	-5.84	39	12.76	12	-0.94	11	-3.42	16	-7.05	29	-4.5	25
6	HKH-371	-23.09	34	-11.1	23	-37.37	36	18.84	26	-13.6	31	-5.92	30	-5.37	11	-15.23	39	-14.43	35	12.14	19	-8.29	34	-10.96	23	-19.65	37	-7.23	30	-12.39	33
7	HKH-372	-33.52	39	-7.05	12	-28.83	27	-4.87	38	-20.19	38	-5.67	29	-25.31	27	17.06	10	-22.31	41	4.51	28	-9.25	36	-37.02	41	-28.79	41	-9.44	34	-16.97	39
8	HM 19203	-4.77	9	-5.18	9	-47.06	39	25.52	19	-9.92	27	8.98	5	-15.24	21	-0.32	22	-0.51	16	30.96	3	14.34	10	-6.99	17	0.49	7	5.07	10	-3.82	24
9	HM 19305	-18.25	28	-15.11	33	-27.19	24	28.83	17	-7.45	22	-11.55	34	9.73	2	21.67	4	-7	27	-2.05	36	19.29	7	-7.69	18	5.3	5	7.85	3	3.88	5
10	HT 519015	-22.24	32	-14.71	32	-35.37	34	19.19	25	-12.23	30	-0.74	20	-7.83	13	18.56	7	9.71	4	2.76	30	-8.05	33	-21.77	32	0.01	9	2.38	14	-3.81	23
11	IAHM 2016-38	-33.76	40	-18.84	40	-27.09	23	-32.44	42	-25.99	41	-25.05	42	-4.98	10	-6.1	34	-31.96	42	4.05	29	-14.39	41	-37.78	42	-32.48	42	-15.16	39	-22.62	41
12	IAHM2016-2	-16.03	24	-11.26	24	-40.55	38	0.56	34	-16.32	34	-3.02	24	-32.83	36	-7.55	35	-11.05	33	0.77	33	9.93	13	-16.17	28	-13.67	31	-10.35	37	-16.85	38
13	IIMWH 1901	-7.19	14	-18.41	39	-48.39	40	31.06	14	-9.8	26	-18	39	-26.49	29	-7.87	36	-15.07	36	-4.27	38	-5.34	30	-20.8	31	-19.47	36	-13.88	38	-15.02	36
14	IMHSB-19K-10	-12.58	19	-12.97	28	-29.35	28	-29.97	41	-18.7	35	-6.02	31	-34	37	-3.21	30	-16.87	38	1.98	31	-20.37	42	-17.39	30	11.72	3	-9.68	35	-16.53	37
15	IMHSB-19K-11	15.13	1	-8.42	15	-19.55	15	51.12	2	7.3	1	-7.83	32	-15.1	19	-1.78	24	-3.2	21	21.9	8	5.37	16	-10.74	22	-12.6	30	-2.39	26	2.09	10
16	IMHSB-19K-2	-17.52	27	-9.92	18	-27.75	25	29.45	16	-7.47	23	-0.73	19	-2.63	9	0.61	20	13.68	2	6.13	27	-11.75	38	0.4	6	-11.31	29	1.65	16	-0.06	13
17	IMHSB-19K-3	-9.44	17	-6.35	10	-55.76	41	-2.67	37	-18.72	36	-22.45	40	-56.62	42	-15.31	40	-16.74	37	9.6	22	-4.37	27	-34.9	39	-22.46	39	-19.8	41	-22.01	40
18	IMHSB-19K-4	-14.57	23	3.99	1	-16.2	10	25.4	20	2.2	5	-10.03	33	-30.33	32	-13.82	38	6.92	10	16.94	14	21.02	6	-0.77	10	-9	25	-2.51	27	-2.63	22
19	IMHSB-19K-5	-5.88	12	2.61	2	-24.27	19	20.52	23	-5.99	20	3.8	12	-30.78	33	22.5	3	3.23	12	17.12	13	16.32	8	-4.71	14	-9.75	26	4.43	12	-1.19	17
20	IMHSB-19K-6	-24.43	35	-21.3	42	-33.88	32	23.23	21	-14.34	33	-1.2	22	-21.32	25	-12.87	37	0.49	13	1.09	32	-2.29	25	-0.41	9	-7.94	24	-7.05	28	-9.66	29
21	IMHSB-19K-7	-19.8	29	-10.86	21	-40.32	37	-12.85	40	-18.97	37	-16.56	37	-30.19	31	-2.62	27	-4.93	25	29.7	5	-4.84	29	-11.14	24	-13.81	33	-7.83	31	-13.58	35
22	IMHSB-19K-8	-3.79	6	-10.09	19	-21.1	16	34.65	11	-0.06	10	3.89	11	-48.39	39	-19.59	42	-20.19	40	-3.84	37	2.09	21	-6.03	16	-11.1	28	-15.46	40	-9.98	30
23	IMHSB-19K-9	-28.74	38	-9.21	17	-30.62	29	-11.43	39	-20.73	39	-5.53	28	-26.92	30	7.69	16	-8.36	30	6.71	25	-11.36	37	-17.23	29	-19.74	38	-9.85	36	-12.81	34
24	IMHVS-101	-22.27	33	-8.48	16	-11.45	9	32.27	13	-4.99	18	1.22	15	-6.45	12	12.1	12	6.6	11	21.84	9	24.52	5	-10.35	21	-1.63	13	7.44	4	2.14	8
25	JKMH 1481	-12.98	21	-15.72	35	-33.62	31	54.01	1	-3.78	17	6.72	8	6.01	5	0.66	19	-3.22	22	30.99	2	9	14	0.1	7	22.83	1	10.72	2	6.9	2
26	KH 518	-22.11	31	-5.15	8	-24.72	21	50.94	3	-1.05	15	-17.25	38	7.04	4	10.56	13	7.39	8	29.88	4	5.57	15	1.13	4	-2.27	14	5.95	7	2.54	7
27	KSP-5391	5.41	2	-15.29	34	-18.65	14	32.94	12	3.5	3	11.31	2	-10.46	14	25.29	1	-7.71	28	-7.7	41	5.32	17	-3.06	13	-5.73	18	2.02	15	-0.52	14
28	MH 1941	-36.85	41	-7.49	13	-66.9	42	4.78	32	-27.09	42	-24.21	41	-52.98	41	-17.04	41	-17.78	39	-6.01	40	-12.1	39	-21.96	33	-23.52	40	-23.82	42	-27.8	42
29	MH 1945	-50.98	42	-10.46	20	-37.08	35	1.96	33	-23.53	40	-0.93	21	-32.46	35	-2.97	28	-9.2	31	12.62	17	-5.47	31	-23.68	34	-13.7	32	-8.28	32	-11.94	32
30	MH 1948	5.01	3	-0.64	5	-24.28	20	18.74	27	-0.08	11	-4.68	25	-48.97	40	1.24	18	-3.61	23	21.27	10	15.2	9	-8.93	20	11.75	2	-1.96	24	-1.25	18
31	NMH 4144	-5.72	11	-12.89	27	-10.92	7	40.51	7	-0.9	14	17.31	1	12.29	1	17.37	9	12.12	3	10.53	21	27.39	3	5.18	2	6.11	4	15.35	1	9.45	1
32	PM 19101 M	-13	22	-14.12	31	-34.2	33	27.54	18	-6.21	21	9.04	4	-26.25	28	-1.33	23	-2.16	20	-13.25	42	-8.3	35	-26.33	37	-18.54	34	-8.88	33	-10.9	31
33	PM 19102 M	-4.32	7	-13.84	29	-18.62	13	49.1	4	0.45	7	-13.42	36	-17.36	24	18.21	8	9.22	5	22.07	7	-14.28	40	14.74	1	-7.52	22	-0.79	21	-0.94	16
34	PM 19103 M	-8.71	15	-0.27	4	-24	18	36.15	9	0.23	8	-4.78	26	-30.9	34	-2.03	25	-1.97	19	11.1	20	28.41	2	0.77	5	-5.94	19	-2.23	25	-1.88	20
35	SVMH-1130	-27.93	37	-11.08	22	-11.34	8	6.49	30	-11.19	28	-5.28	27	-12.85	17	5.74	17	-7.83	29	26.88	6	30.92	1	-25.14	36	0.22	8	5.28	8	-2.36	21
36	SYN-916248	-8.95	16	-2.5	6	0.13	1	15.03	28	0.63	6	11.15	3	-11.37	15	24.19	2	17.68	1	6.53	26	1.47	22	-15.64	27	-5.37	17	7.04	5	3.92	4
37	SYN916540	-17.07	26	-12.22	26	-28.01	26	20.89	22	-11.34	29	6.12	10	3.18	6	21.04	5	0.22	14	12.57	18	2.83	20	-5.78	15	-6.71	21	6.23	6	-1.74	19
38	SYN916701	3.25	4	-14.05	30	-23.2	17	-1.11	36	-8.13	24	2.77	14	-11.38	16	-5	32	-13.13	34	19.54	11	-5.68	32	-24.91	35	3.28	6	0.81	18	-5.85	27
39	TS 2609	-12.81	20	-18.86	41	-32.03	30	6.41	31	-13.96	32	8.02	6	-15.18	20	-4.17	31	-9.94	32	31.65	1	-2.37	26	-35.27	40	-0.84	12	-0.85	22	-5.49	26
40	BIO 9544 (C)	-6.02	13	-3.42	7	-4.49	3	48.99	5	6.88	2	3.12	13	-21.79	26	9.32	15	7.11	9	8.34	24	4.6	18	-11.14	25	-0.32	11	2.84	13	2.12	9
41	CMH 08-292 (C)	0	5	0	3	0	2	0	35	0	9	0	17	0	7	0	21	0	15	0	34	0	23	0	8	0	10	0	20	0	12
42	DHM 121 (C)	-20.47	30	-11.99	25	-16.26	11	11.6	29	-8.56	25	7.2	7	-16.16	23	-5.25	33	-6.54	26	18.71	12	-2.18	24	-34.88	38	-7.69	23	-1.5	23	-9.53	28

Table No. : 4 (Conti...) **Gain in yield (%) over DHM 121**

S. No.	Entry Name	CWZ												NEPZ												NWPZ					
		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BHUB		DHOL		RANC		SABO		ZONE		IARI		KARN		LUDH	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADV 7745	38.02	15	67.52	1	22.37	19	15.38	13	13.12	17	31.99	7	36.2	10	-0.32	32	22.08	25	27.63	2	20.22	8	20.54	13	19.79	8	-5.8	37	-12.27	22
2	DKC 8205	24.9	23	36.57	4	31.7	14	17.71	10	20.43	8	28.61	10	55.3	1	13.69	3	53.12	6	26.79	3	34.78	3	32.91	2	-8.33	36	-5.32	36	7.8	6
3	DKC 8209	26.4	21	48.62	3	30.13	16	-0.5	29	62.29	1	39.1	4	53.53	3	9.77	9	46.71	10	26.43	4	6.29	18	32.98	1	10.72	18	6.35	11	-0.72	12
4	GGMH-114	46.37	9	0.17	29	39.88	10	-9.83	34	13.47	16	31.09	8	33.54	13	3.78	21	42.31	15	13.16	15	39.89	1	21.09	11	18.94	10	-6.86	38	10.41	5
5	GK 3207	16.27	30	-18.99	40	20.62	22	3.25	25	-25.94	41	3.96	31	40.41	6	7.47	13	63.87	3	9.96	19	4.38	22	27.04	4	5.37	25	4.29	14	11.59	4
6	HKH-371	2.91	34	32.87	6	-9.75	36	14.85	14	-14.56	33	-2.32	37	24.75	20	-3.69	37	44.05	12	-19.73	42	-12.6	38	6.58	32	-3.29	34	1.01	23	-25.21	36
7	HKH-372	-19.94	42	-4.73	34	6.27	31	-14.34	36	-6.25	29	-7.09	38	-7.61	39	-0.95	33	-2.8	39	-1.86	32	-9.71	35	-3.98	39	-16.41	39	5.61	12	-15.01	27
8	HM 19203	18.15	28	3.95	23	41.84	7	5.14	23	15.94	15	24.08	19	-11.87	42	-1.03	34	15.15	29	3.65	25	6.02	19	0.18	34	19.74	9	7.74	9	-36.78	39
9	HM 19305	51.44	5	26.1	11	58.35	3	-19.79	40	16.39	14	40.06	3	40.34	8	4.67	17	48.78	8	20.2	8	3.35	24	25.99	6	2.79	28	-3.54	33	-13.05	24
10	HT 519015	35.8	16	35.81	5	14.43	28	14.41	15	7.87	19	24.64	17	17.61	24	1.03	28	43.98	13	14	13	10.65	13	14.72	19	-2.22	32	-3.09	32	-22.82	34
11	IAHM 2016-38	-6.64	38	-7.59	35	-41.25	41	6.21	21	-18.61	37	-21.1	41	19.68	23	-17.96	41	15.66	28	-7.91	38	-1.93	31	-1.09	37	-16.71	40	-7.77	40	-12.93	23
12	IAHM2016-2	9.81	32	-4.6	33	-19.21	39	1.71	26	-0.67	27	-1.58	36	7.97	32	0.08	30	-12.14	41	-11.86	41	-8.44	34	-6.82	40	5.58	24	0.83	24	-29.01	38
13	IIMWH 1901	24.13	25	-32.04	42	-3.47	35	33.64	4	-2.91	28	0.71	32	-8.27	40	8.01	12	10.46	33	-2.17	33	-5.48	33	-0.46	36	16.7	14	-7.29	39	-38.37	40
14	IMHSB-19K-10	6.62	33	26.72	10	-37.03	40	5.28	22	-16.84	36	-8.81	39	12.38	29	10.55	8	-8.3	40	0.5	29	-40.03	41	2.19	33	9.92	19	-1.12	28	-15.62	28
15	IMHSB-19K-11	64.44	2	-3.95	32	29.21	17	1.55	27	4.68	22	30.71	9	40.38	7	12.96	4	53.85	5	0.55	28	2.77	25	24.48	7	44.77	1	4.06	15	-3.92	15
16	IMHSB-19K-2	43.52	11	31.22	7	40.13	8	43.11	2	0.09	24	28.31	12	27.75	19	3.62	22	51.5	7	11.36	18	7.6	17	23.13	9	3.71	27	2.36	18	-13.72	25
17	IMHSB-19K-3	0.08	36	-22.72	41	-14.85	37	4.38	24	-16.17	35	-12.35	40	-6.93	38	-24.15	42	11.01	32	-11.61	40	-11.63	37	-8.21	42	13.88	17	6.41	10	-47.17	41
18	IMHSB-19K-4	48.33	8	6.85	22	4.71	32	12.47	17	21.69	7	20.48	23	29.4	17	9.39	10	6.29	36	8.96	20	-2.45	32	12.9	25	7.42	23	18.16	1	0.07	10
19	IMHSB-19K-5	32.59	17	25.53	12	16.76	25	44.77	1	19.07	10	21.04	22	3.01	35	-1.23	35	23.76	24	12.27	17	24.9	6	10.62	27	18.35	12	16.6	2	-9.56	19
20	IMHSB-19K-6	17.38	29	10.51	21	31.38	15	-9.85	35	16.44	13	20.45	24	-4.88	37	12.75	5	28.08	22	7.72	22	11.18	12	7.13	31	-4.97	35	-10.57	42	-21.03	32
21	IMHSB-19K-7	-11.29	40	3.74	24	12.28	30	-18.58	38	-25.12	40	-1.29	35	5.76	34	10.9	7	11.66	31	17.3	10	-37.84	40	10.05	28	0.85	29	1.29	21	-28.73	37
22	IMHSB-19K-8	39.83	13	13.37	19	13.8	29	-37.19	42	-21.5	38	14.57	28	36.2	11	0.13	29	7.49	34	-11.3	39	-9.74	36	7.34	30	20.98	6	2.16	19	-5.78	16
23	IMHSB-19K-9	10.71	31	13.33	20	17.22	23	33.27	5	9.99	18	15.72	27	14.25	27	3.53	23	11.79	30	14.23	12	-27.87	39	8.54	29	-10.4	38	3.17	17	-17.15	29
24	IMHVS-101	49.84	7	21.8	14	46.1	6	-19.37	39	7.8	21	37.37	5	14.74	26	-6.03	38	36.83	17	16.81	11	9.68	15	14.09	21	-2.26	33	3.99	16	5.75	9
25	JKMH 1481	75.53	1	23.04	13	62.44	2	-21.01	41	43.37	4	56.4	1	8.74	31	14.34	1	43.19	14	20.41	6	-1.57	30	18.83	14	9.42	21	-4.23	35	-20.72	31
26	KH 518	40.86	12	2.73	25	40.1	9	17.32	11	59.97	2	36.92	6	13.55	28	6.71	14	47.16	9	2.18	27	0.78	28	14.88	18	-2.06	31	7.77	8	-10.1	21
27	KSP-5391	32.22	18	-8.75	37	39.71	11	7.75	20	-26.04	42	20.18	25	31.28	16	2.76	25	45.29	11	-3.49	36	12.67	10	15.68	17	32.55	2	-3.75	34	-2.85	14
28	MH 1941	-18.2	41	-8.02	36	-54.9	42	-16.02	37	-7.87	30	-24.31	42	-8.87	41	-13.67	39	0.79	37	-2.7	34	-45.39	42	-7.71	41	-20.6	41	5.11	13	-60.47	42
29	MH 1945	0.42	35	53.08	2	21.12	21	-1.67	31	-23.81	39	11.65	30	37.09	9	2.72	26	26.37	23	-1.45	31	9.18	16	15.89	16	-38.37	42	1.74	20	-24.86	35
30	MH 1948	46.31	10	17.49	18	15.93	27	-1.75	32	7.81	20	22.79	20	32.93	14	4.36	18	29.87	20	17.94	9	22.61	7	20.57	12	32.04	3	12.9	5	-9.57	20
31	NMH 4144	55.37	4	-3.03	31	76.51	1	30.37	6	-15.55	34	40.57	2	55.09	2	13.81	2	67.67	1	7.7	23	15.59	9	32.21	3	18.55	11	-1.02	27	6.39	7
32	PM 19101 M	25.11	22	1.92	26	-16.86	38	10.18	18	43.77	3	13.08	29	21.15	21	-15.76	40	-14.66	42	-5.05	37	1.59	27	-3.01	38	9.39	22	-2.41	31	-21.42	33
33	PM 19102 M	56.32	3	-11.68	38	17.1	24	39.34	3	17.19	12	24.9	16	29.38	18	4.26	19	35.08	18	12.77	16	25.49	5	17.83	15	20.32	7	-2.1	29	-2.82	13
34	PM 19103 M	30.73	19	29.97	8	21.22	20	25.05	7	-11.25	32	18.07	26	41.61	5	3.84	20	65.87	2	3.45	26	31.93	4	23.43	8	14.79	15	13.32	4	-9.24	18
35	SVMH-1130	21.26	27	28.37	9	16.41	26	17.28	12	22.9	6	22.01	21	11.21	30	3.49	24	29.38	21	13.9	14	4.91	21	13.72	23	-9.38	37	1.04	22	5.88	8
36	SYN-916248	51.12	6	-13.89	39	55.58	4	20.94	8	-10.31	31	28.36	11	47.99	4	9.26	11	32.92	19	28.78	1	36.24	2	26.94	5	14.5	16	10.79	6	19.58	1
37	SYN916540	30.14	20	0.4	28	48.99	5	-3.62	33	-0.27	26	25.88	15	32.43	15	2.7	27	17.71	27	-3.38	35	10.23	14	11.56	26	4.29	26	-0.26	26	-14.03	26
38	SYN916701	-7.23	39	19.92	15	1.93	33	9.68	19	1.35	23	-0.11	34	16.4	25	-2.21	36	18.57	26	20.34	7	4.19	23	14.44	20	29.83	4	-2.34	30	-8.28	17
39	TS 2609	21.91	26	19.15	16	26.71	18	19.78	9	19.94	9	24.6	18	35.36	12	11.51	6	7.49	35	5.59	24	1.74	26	13.59	24	9.63	20	-7.8	41	-18.82	30
40	BIO 9544 (C)	39.18	14	1.5	27	33.17	13	12.79	16	28.92	5	26.32	13	7.1	33	5.39	16	38.75	16	8.13	21	5.6	20	13.9	22	18.17	13	9.75	7	14.06	3
41	CMH 08-292 (C)	24.88	24	19.01	17	34.71	12	-0.8	30	17.62	11	26.12	14	20.84	22	5.83	15	59.46	4	22.07	5	11.99	11	23.07	10	25.74	5	13.63	3	19.42	2
42	DHM 121 (C)	0	37	0	30	0	34	0	28	0	25	0	33	0	36	0	31	0	38	0	30	0	29	0	35	0	30	0	25	0	11

Table No. : 4 (Conti...) **Gain in yield (%) over DHM 121**

S. No.	Entry Name	NWPZ				PZ																	
		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE		All India	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADV 7745	7.26	24	3.47	19	-9.33	23	2.57	18	3.19	26	16.68	6	-4.73	15	5.56	19	60.6	3	-2.29	27	1.63	19	9.8	15
2	DKC 8205	21.82	10	6.2	16	-6.97	18	28.8	3	25.53	6	6.01	18	-17.43	35	28.95	4	35.9	26	-12.46	35	6.82	9	13.74	6
3	DKC 8209	24.37	8	9.2	12	-0.64	9	0.63	22	15.45	14	15.86	7	-8.49	23	15.88	11	41.16	19	5.08	15	6.23	11	16.47	3
4	GGMH-114	16.01	15	8.69	13	-18.38	35	17.79	8	19.13	11	6.09	17	-4.87	16	-2.36	28	48.86	12	1.79	20	2.54	17	11.46	11
5	GK 3207	28.82	6	11.82	4	-6.23	16	-35.87	38	2.25	29	2.68	24	-20.68	39	15.27	12	52.12	11	4.63	16	-5.63	29	5.56	25
6	HKH-371	6.49	26	-5.51	31	-12.24	30	12.87	11	-10.54	39	-8.44	35	-5.54	19	-6.24	34	36.73	23	-12.96	37	-5.82	30	-3.16	33
7	HKH-372	-14.76	38	-12.71	38	-12.01	29	-10.91	27	23.54	10	-16.87	41	-11.97	28	-7.23	36	-3.29	41	-22.86	41	-8.06	34	-8.23	39
8	HM 19203	12.48	19	-1.48	27	1.66	5	1.1	21	5.2	22	6.45	16	10.32	3	16.88	10	42.83	17	8.87	7	6.67	10	6.31	24
9	HM 19305	15.44	17	1.21	22	-17.49	34	30.89	2	28.4	4	-0.49	27	-17.49	36	21.95	7	41.74	18	14.08	5	9.5	3	14.83	5
10	HT 519015	6.8	25	-4.01	30	-7.4	20	9.93	13	25.13	7	17.39	4	-13.44	30	-6.01	33	20.13	32	8.35	9	3.94	14	6.32	23
11	IAHM 2016-38	-39.46	42	-19.06	41	-30.08	42	13.34	10	-0.9	34	-27.2	42	-12.35	29	-12.49	41	-4.46	42	-26.85	42	-13.86	39	-14.47	41
12	IAHM2016-2	-9.89	34	-8.48	34	-9.53	24	-19.88	36	-2.43	35	-4.82	33	-15.12	33	12.38	13	28.73	28	-6.47	31	-8.98	37	-8.09	38
13	IIMWH 1901	17.44	14	-1.35	26	-23.51	39	-12.32	29	-2.77	36	-9.13	36	-19.36	38	-3.23	30	21.62	31	-12.75	36	-12.57	38	-6.06	36
14	IMHSB-19K-10	-37.25	41	-11.09	35	-12.33	31	-21.28	37	2.15	30	-11.05	38	-14.09	31	-18.6	42	26.85	30	21.03	3	-8.3	35	-7.74	37
15	IMHSB-19K-11	35.41	2	17.35	1	-14.02	32	1.27	19	3.66	24	3.57	21	2.69	8	7.71	16	37.06	22	-5.31	30	-0.9	26	12.85	10
16	IMHSB-19K-2	16	16	1.19	23	-7.39	19	16.14	9	6.18	20	21.63	2	-10.6	27	-9.79	38	54.17	6	-3.92	29	3.2	16	10.47	13
17	IMHSB-19K-3	-12.79	37	-11.11	36	-27.66	40	-48.26	42	-10.62	40	-10.92	37	-7.67	22	-2.24	27	-0.03	39	-16	39	-18.58	41	-13.8	40
18	IMHSB-19K-4	12.37	20	11.77	5	-16.08	33	-16.89	32	-9.05	38	14.4	10	-1.49	14	23.72	6	52.38	10	-1.42	25	-1.03	27	7.63	22
19	IMHSB-19K-5	7.99	23	2.82	20	-3.17	12	-17.43	33	29.28	3	10.45	12	-1.34	13	18.91	8	46.32	14	-2.23	26	6.03	12	9.22	17
20	IMHSB-19K-6	10.42	21	-6.32	33	-7.84	22	-6.15	25	-8.04	37	7.52	13	-14.85	32	-0.11	25	52.92	9	-0.26	24	-5.63	28	-0.15	29
21	IMHSB-19K-7	-21.91	40	-11.38	37	-22.16	37	-16.73	31	2.77	27	1.72	25	9.26	5	-2.72	29	36.45	24	-6.62	33	-6.43	31	-4.47	35
22	IMHSB-19K-8	20.66	11	9.3	10	-3.09	11	-38.44	39	-15.13	42	-14.61	40	-18.99	37	4.37	21	44.29	16	-3.69	28	-14.17	40	-0.5	30
23	IMHSB-19K-9	-20.64	39	-13.3	39	-11.87	28	-12.83	30	13.66	16	-1.95	30	-10.11	25	-9.38	37	27.1	29	-13.05	38	-8.47	36	-3.63	34
24	IMHVS-101	18.52	13	3.91	18	-5.58	15	11.58	12	18.3	12	14.06	11	2.64	9	27.3	5	37.67	21	6.57	13	9.08	4	12.9	8
25	JKMH 1481	38	1	5.24	17	-0.45	8	26.45	5	6.23	19	3.55	22	10.34	2	11.43	14	53.72	7	33.07	1	12.41	2	18.16	2
26	KH 518	35.25	3	8.21	15	-22.81	38	27.68	4	16.68	13	14.91	8	9.41	4	7.92	15	55.29	4	5.87	14	7.57	7	13.34	7
27	KSP-5391	19.12	12	13.19	3	3.83	2	6.81	14	32.22	1	-1.25	28	-22.25	41	7.67	17	48.86	13	2.13	18	3.57	15	9.96	14
28	MH 1941	-6.11	32	-20.26	42	-29.3	41	-43.91	41	-12.44	41	-12.03	39	-20.82	40	-10.14	39	19.84	33	-17.14	40	-22.66	42	-20.2	42
29	MH 1945	-8.64	33	-16.36	40	-7.58	21	-19.44	35	2.4	28	-2.85	31	-5.13	17	-3.36	31	17.19	34	-6.51	32	-6.88	32	-2.67	32
30	MH 1948	6.4	27	9.28	11	-11.08	25	-39.13	40	6.84	18	3.13	23	2.16	10	17.77	9	39.85	20	21.07	2	-0.46	24	9.15	18
31	NMH 4144	25.91	7	8.38	14	9.43	1	33.94	1	23.87	9	19.97	3	-6.89	21	30.23	3	61.51	2	14.95	4	17.11	1	20.98	1
32	PM 19101 M	14.28	18	2.58	21	1.72	4	-12.03	28	4.14	23	4.68	20	-26.92	42	-6.26	35	13.13	37	-11.75	34	-7.49	33	-1.52	31
33	PM 19102 M	33.6	4	9.86	7	-19.24	36	-1.43	24	24.76	8	16.86	5	2.83	7	-12.37	40	76.19	1	0.19	22	0.73	21	9.5	16
34	PM 19103 M	22	9	9.61	8	-11.18	26	-17.58	34	3.4	25	4.89	19	-6.42	20	31.27	2	54.74	5	1.91	19	-0.74	25	8.45	20
35	SVMH-1130	-4.58	30	-2.87	28	-11.65	27	3.95	17	11.59	17	-1.38	29	6.88	6	33.84	1	14.95	36	8.58	8	6.89	8	7.93	21
36	SYN-916248	3.07	28	10.06	6	3.69	3	5.72	15	31.07	2	25.92	1	-10.26	26	3.73	22	29.53	27	2.51	17	8.67	5	14.87	4
37	SYN916540	8.32	22	-3.04	29	-1	10	23.07	6	27.74	5	7.24	14	-5.18	18	5.12	20	44.69	15	1.07	21	7.85	6	8.62	19
38	SYN916701	-11.39	36	0.48	24	-4.13	14	5.7	16	0.26	32	-7.05	34	0.69	11	-3.58	32	15.31	35	11.89	6	2.34	18	4.07	27
39	TS 2609	-4.65	31	-5.91	32	0.77	6	1.17	20	1.14	31	-3.64	32	10.89	1	-0.19	26	-0.59	40	7.43	12	0.66	22	4.46	26
40	BIO 9544 (C)	33.51	5	16.89	2	-3.81	13	-6.71	26	15.37	15	14.61	9	-8.74	24	6.93	18	36.45	25	7.99	11	4.41	13	12.88	9
41	CMH 08-292 (C)	-10.4	35	9.37	9	-6.72	17	19.28	7	5.54	21	7	15	-15.76	34	2.23	23	53.56	8	8.34	10	1.52	20	10.53	12
42	DHM 121 (C)	0	29	0	25	0	7	0	23	0	33	0	26	0	12	0	24	0	38	0	23	0	23	0	28

Table No. : 4 (Conti...)									Number of cobs										
S. No.	Entry Name	CWZ						NEPZ						NWPZ					
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BHUB	DHOL	RANC	SABO	ZONE	IARI	KARN	LUDH	PANT	ZONE	
		Mea	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
1	ADV 7745	31	30	30	14	32	28	37	36	31	36	39	36	26	41	36	44	37	
2	DKC 8205	32	28	34	14	33	28	39	37	35	34	38	36	24	41	43	46	39	
3	DKC 8209	31	29	31	14	37	28	37	34	39	40	35	38	27	41	40	41	38	
4	GGMH-114	34	29	34	14	34	30	36	36	34	33	38	36	31	40	38	41	38	
5	GK 3207	29	24	31	12	28	25	35	37	38	34	37	36	24	42	35	40	35	
6	HKH-371	28	29	26	14	27	25	36	35	31	30	36	34	24	42	36	41	35	
7	HKH-372	24	29	26	12	32	24	35	33	33	33	34	34	22	42	37	36	34	
8	HM 19203	30	26	33	15	31	27	35	33	36	34	36	35	29	41	38	44	38	
9	HM 19305	34	28	31	12	32	28	37	33	35	37	35	36	26	41	38	43	37	
10	HT 519015	34	27	33	14	34	28	35	36	39	33	36	35	23	41	36	40	35	
11	IAHM 2016-38	29	28	20	14	27	24	37	34	29	30	35	33	25	41	37	29	34	
12	IAHM2016-2	30	28	23	14	29	25	33	35	26	31	37	32	25	40	37	34	34	
13	IIMWH 1901	30	26	33	15	31	27	39	37	37	37	38	37	30	42	35	44	38	
14	IMHSB-19K-10	28	28	18	14	29	23	36	33	29	35	33	33	27	40	34	27	33	
15	IMHSB-19K-11	37	27	36	11	32	29	37	37	37	33	34	35	33	42	39	40	38	
16	IMHSB-19K-2	34	29	40	15	31	30	39	37	35	35	37	37	26	42	40	44	37	
17	IMHSB-19K-3	29	26	30	14	35	26	37	34	34	34	34	35	28	42	36	36	35	
18	IMHSB-19K-4	34	27	27	12	33	27	37	38	34	32	38	36	28	42	42	41	39	
19	IMHSB-19K-5	33	29	32	15	32	28	39	36	38	38	39	38	30	42	37	38	36	
20	IMHSB-19K-6	31	28	39	13	34	28	36	34	33	35	40	35	25	40	36	42	36	
21	IMHSB-19K-7	27	27	26	12	32	25	37	34	30	36	33	34	23	41	38	34	35	
22	IMHSB-19K-8	33	29	31	12	33	28	38	34	37	33	37	36	30	41	39	43	39	
23	IMHSB-19K-9	28	27	31	13	35	27	38	35	37	36	36	36	28	42	40	36	36	
24	IMHVS-101	35	28	34	12	30	28	39	34	36	38	40	37	21	41	38	41	36	
25	JKMH 1481	40	28	32	12	32	29	35	36	39	34	39	36	30	41	39	44	38	
26	KH 518	34	27	32	14	38	29	40	35	36	36	39	37	26	41	43	49	39	
27	KSP-5391	32	26	27	14	31	26	37	36	36	36	40	37	33	41	38	42	39	
28	MH 1941	26	26	16	11	30	21	33	35	32	34	38	34	22	41	33	35	33	
29	MH 1945	24	27	25	14	29	23	37	34	30	34	34	34	17	41	37	35	33	
30	MH 1948	34	28	26	14	32	27	34	32	33	37	37	35	27	42	36	38	36	
31	NMH 4144	37	27	35	14	30	29	39	38	42	30	39	37	27	41	41	42	37	
32	PM 19101 M	33	27	33	15	38	29	37	36	34	35	35	36	27	42	41	45	39	
33	PM 19102 M	38	27	37	13	36	30	37	34	36	39	40	37	30	41	39	47	39	
34	PM 19103 M	34	29	33	15	30	28	38	35	38	36	38	36	25	42	37	41	36	
35	SVMH-1130	29	29	29	14	36	27	31	35	33	34	37	34	19	41	36	39	34	
36	SYN-916248	35	29	31	15	31	28	38	37	35	34	40	36	26	39	42	37	36	
37	SYN916540	31	28	34	13	30	27	37	36	36	33	36	36	27	42	40	38	36	
38	SYN916701	27	30	22	13	32	25	33	32	32	38	37	35	29	41	36	34	35	
39	TS 2609	30	30	23	14	34	27	36	36	35	35	37	36	25	42	35	35	35	
40	BIO 9544 (C)	32	24	34	14	34	28	36	35	36	34	39	36	28	44	41	43	39	
41	CMH 08-292 (C)	30	28	29	13	33	27	36	35	36	37	40	36	26	43	38	36	35	
42	DHM 121 (C)	27	28	25	14	31	25	32	33	33	32	34	33	24	42	37	40	36	
	L Mean	31.4	27.7	29.8	13.5	32.2	26.9	36.4	34.9	34.7	34.6	37.0	35.5	26.3	41.3	38.0	39.6	36.3	
	CV (%)	8.2	8.0	12.9	19.4	11.7	11.4	6.5	5.3	11.8	7.9	10.0	8.6	14.7	3.8	6.7	9.9	8.7	
	F (Prob)	0.0	0.6	0.0	1.0	0.2	1.0	0.0	0.0	0.1	0.0	0.6	1.0	0.0	0.9	0.0	0.0	1.0	
	CD (5%)	4.2	3.6	6.3	4.3	6.1	2.3	3.9	3.0	6.7	4.5	6.0	2.3	6.3	2.6	4.2	6.4	2.6	
	CD (1%)	5.6	4.8	8.3	5.7	8.1	3.0	5.1	4.0	8.9	5.9	8.0	3.0	8.4	3.4	5.5	8.5	3.4	

Table No. : 4 (Conti...)		Number of cobs										Ear height (cm)											
		PZ									All	CWZ						NEPZ					
S. No.	Entry Name	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	India	AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7745	31	36	35	36	35	34	37	40	36	34	112	79	85	88	103	93	121	86	96	108	77	98
2	DKC 8205	31	43	39	34	35	32	36	41	36	35	109	90	86	87	94	94	125	96	103	102	80	101
3	DKC 8209	33	37	33	38	37	34	37	41	36	35	98	74	73	82	95	83	107	75	108	95	73	93
4	GGMH-114	31	43	36	36	35	32	36	43	36	35	108	76	91	89	96	92	103	80	100	100	79	93
5	GK 3207	30	33	32	33	37	34	36	39	34	33	109	94	79	79	107	94	119	84	103	111	87	101
6	HKH-371	31	33	33	36	35	31	36	35	33	32	110	87	94	88	114	99	118	98	109	107	79	102
7	HKH-372	32	33	35	31	36	29	35	38	34	32	109	86	101	85	108	98	115	84	132	98	78	103
8	HM 19203	32	38	34	37	36	33	36	41	36	34	100	98	82	90	100	93	113	86	73	113	76	92
9	HM 19305	30	41	36	31	37	32	35	41	35	34	100	64	78	80	95	84	97	79	93	95	63	85
10	HT 519015	31	34	35	39	36	31	35	40	35	34	108	80	85	82	101	93	112	78	97	103	68	91
11	IAHM 2016-38	29	38	32	30	36	33	37	34	34	31	97	68	70	91	81	81	92	70	70	103	63	81
12	IAHM2016-2	30	33	34	34	34	31	37	33	33	31	112	85	97	91	92	95	113	78	109	101	78	95
13	IIMWH 1901	32	37	36	35	37	34	35	43	36	35	106	78	85	85	90	89	103	77	95	98	70	88
14	IMHSB-19K-10	31	34	36	31	36	32	37	32	34	31	98	76	69	80	92	82	101	72	93	85	66	83
15	IMHSB-19K-11	30	39	36	32	36	31	35	46	36	34	105	76	90	81	98	90	110	83	72	100	74	89
16	IMHSB-19K-2	33	39	34	39	35	31	36	43	36	35	105	92	95	84	100	95	108	90	103	100	84	97
17	IMHSB-19K-3	30	32	34	33	35	31	36	42	34	33	108	102	91	80	120	100	128	90	107	112	93	106
18	IMHSB-19K-4	29	34	35	36	36	32	37	44	35	34	117	90	90	81	101	95	132	96	102	111	83	105
19	IMHSB-19K-5	30	31	37	34	35	34	35	40	35	34	103	92	98	76	112	96	112	86	113	113	92	104
20	IMHSB-19K-6	30	37	33	38	35	33	36	41	35	34	121	74	95	88	118	100	120	89	118	113	87	105
21	IMHSB-19K-7	28	32	33	33	36	32	35	36	33	32	103	86	91	83	85	90	120	81	126	106	72	102
22	IMHSB-19K-8	34	40	34	38	37	33	36	38	36	35	89	66	64	82	76	75	98	67	90	89	59	80
23	IMHSB-19K-9	31	37	36	31	35	32	36	42	35	34	110	76	94	84	113	95	132	99	104	111	87	106
24	IMHVS-101	31	38	38	33	36	34	36	37	35	34	116	85	83	82	105	95	115	86	108	96	76	97
25	JKMH 1481	31	37	35	36	36	34	37	38	35	35	106	78	92	95	99	94	111	73	92	106	75	91
26	KH 518	32	38	34	34	37	32	38	43	36	35	110	73	90	87	101	92	116	77	105	101	77	95
27	KSP-5391	32	35	36	34	36	31	38	41	35	34	101	94	91	83	100	93	112	81	98	107	75	93
28	MH 1941	31	20	35	32	36	30	35	39	32	30	101	87	78	81	86	87	107	80	84	101	65	87
29	MH 1945	30	29	33	30	35	29	33	40	33	31	92	69	75	92	87	84	96	71	88	93	66	82
30	MH 1948	31	31	36	32	36	31	35	37	34	33	107	79	80	79	82	84	106	78	103	99	66	90
31	NMH 4144	32	42	39	37	35	32	39	40	37	35	120	91	100	86	109	101	133	89	130	115	93	112
32	PM 19101 M	30	42	35	37	36	31	37	42	36	35	93	78	65	86	82	80	77	64	78	82	54	70
33	PM 19102 M	31	43	38	39	37	32	37	45	38	36	100	78	79	78	82	85	113	78	76	103	73	90
34	PM 19103 M	30	35	35	35	36	33	37	37	35	34	107	82	80	82	89	88	97	72	93	92	69	84
35	SVMH-1130	29	39	35	31	37	31	35	39	35	33	99	81	75	88	106	90	115	83	105	94	78	95
36	SYN-916248	30	36	37	39	34	33	35	36	35	34	111	78	91	82	99	93	130	76	102	95	88	98
37	SYN916540	31	40	34	34	36	31	33	42	35	34	103	81	79	86	92	89	102	77	107	95	68	91
38	SYN916701	31	33	35	29	35	27	34	36	33	32	108	79	89	84	92	89	102	83	97	101	70	90
39	TS 2609	32	39	35	33	37	32	36	36	35	33	111	100	90	82	105	97	108	79	124	98	79	98
40	BIO 9544 (C)	31	34	36	34	36	31	38	40	35	34	95	83	87	85	99	91	106	75	97	108	67	90
41	CMH 08-292 (C)	30	38	35	33	36	33	37	37	35	33	123	101	110	80	110	105	139	106	112	114	95	113
42	DHM 121 (C)	32	30	33	31	36	30	34	37	33	32	102	82	88	87	99	91	100	83	71	102	72	87
	L Mean	30.8	36.0	35.1	34.3	35.8	31.9	36.0	39.4	34.9	33.5	105.7	82.5	85.9	84.2	97.9	91.3	111.6	81.8	99.7	101.8	75.5	94.1
	CV (%)	5.0	12.0	7.4	7.3	3.8	10.4	5.1	8.0	7.9	8.9	4.7	9.9	6.6	7.8	10.1	8.0	7.0	7.9	19.1	5.3	9.4	11.1
	F (Prob)	0.0	0.0	0.4	0.0	0.5	1.0	0.3	0.0	1.0	1.0	0.0	0.0	0.0	0.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0
	CD (5%)	2.5	7.0	4.2	4.1	2.2	5.4	3.0	5.2	1.7	1.1	8.0	13.3	9.3	10.7	16.1	5.5	12.7	10.5	31.0	8.7	11.6	8.1
	CD (1%)	3.3	9.3	5.6	5.4	2.9	7.2	3.9	6.9	2.2	1.4	10.7	17.7	12.3	14.2	21.4	7.3	16.9	14.0	41.2	11.6	15.4	10.6

Table No. : 4 (Conti...)		Ear height (cm)															Final Plant Stand (000/ha)					
S. No.	Entry Name	NWPZ					PZ									All India	CWZ					
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE		AMBI	BANS	CHIN	GODH	UDAI	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7745	134	93	132	132	123	101	76	88	88	68	83	96	113	89	98	67	64	69	65	72	67
2	DKC 8205	136	93	125	132	122	111	76	97	89	67	92	85	116	91	100	69	59	70	68	69	67
3	DKC 8209	128	89	117	125	115	105	64	101	79	69	90	77	109	86	92	69	57	65	59	80	67
4	GGMH-114	123	92	119	125	115	99	78	91	86	75	86	88	107	89	95	72	63	75	63	78	71
5	GK 3207	135	126	136	145	134	109	81	104	84	74	105	91	117	96	103	66	56	69	56	67	62
6	HKH-371	129	105	114	141	122	108	86	102	90	77	92	93	120	96	103	64	59	55	61	60	60
7	HKH-372	138	95	111	132	120	109	70	96	101	68	89	99	111	93	101	53	59	55	54	76	59
8	HM 19203	130	85	107	129	113	108	74	90	86	70	78	83	97	86	94	67	55	70	67	73	66
9	HM 19305	114	81	98	121	105	99	61	86	79	64	81	82	99	81	87	79	59	66	54	76	67
10	HT 519015	117	103	112	132	115	106	63	95	82	68	75	84	113	85	93	73	57	73	65	74	68
11	IAHM 2016-38	111	80	114	109	104	91	60	84	63	64	65	77	95	74	83	61	60	50	58	64	59
12	IAHM2016-2	136	112	131	135	128	112	79	94	97	64	93	89	111	92	100	65	59	47	61	64	59
13	IIMWH 1901	111	94	120	118	110	97	70	81	78	67	81	87	97	83	90	67	54	71	69	76	68
14	IMHSB-19K-10	113	79	107	99	100	101	57	86	74	58	78	76	93	78	84	63	58	49	56	70	60
15	IMHSB-19K-11	122	108	132	127	122	101	77	100	89	69	86	77	108	90	95	80	56	76	53	75	68
16	IMHSB-19K-2	129	104	119	132	122	108	79	95	86	63	81	89	106	89	98	72	62	82	64	78	72
17	IMHSB-19K-3	136	126	128	145	133	110	79	101	89	66	96	105	123	96	106	63	61	70	57	75	64
18	IMHSB-19K-4	134	105	137	139	129	117	79	88	95	72	95	94	123	96	104	73	58	69	60	76	68
19	IMHSB-19K-5	140	107	133	142	130	110	81	99	95	77	90	98	112	96	104	74	58	72	67	73	69
20	IMHSB-19K-6	143	109	125	151	131	113	73	103	101	64	87	109	127	97	106	70	61	79	60	77	68
21	IMHSB-19K-7	143	113	111	119	120	103	78	82	99	74	91	95	115	91	99	61	56	60	59	73	62
22	IMHSB-19K-8	119	86	96	114	105	97	54	70	65	52	71	69	94	71	80	73	58	67	49	77	65
23	IMHSB-19K-9	130	123	139	142	134	106	79	104	96	85	86	102	121	98	106	67	55	70	57	78	65
24	IMHVS-101	135	98	117	122	118	111	81	104	101	68	84	90	118	95	100	76	59	73	55	72	67
25	JKMH 1481	128	109	108	120	118	109	78	100	90	64	77	87	97	88	95	88	60	72	53	76	70
26	KH 518	136	115	118	132	125	105	82	104	91	83	81	78	113	91	99	71	59	63	62	82	67
27	KSP-5391	132	92	105	128	115	115	78	96	87	75	88	85	111	93	97	70	55	66	63	71	66
28	MH 1941	118	116	110	112	113	104	73	93	72	79	87	88	114	88	92	57	53	36	47	68	52
29	MH 1945	119	85	91	106	100	102	54	83	72	65	76	68	94	76	83	57	55	57	62	70	60
30	MH 1948	117	94	103	113	107	107	61	84	78	66	86	81	94	82	89	74	59	57	59	73	65
31	NMH 4144	159	124	133	147	141	118	91	99	110	76	112	98	120	104	112	81	55	77	64	78	71
32	PM 19101 M	108	76	106	102	97	99	55	74	56	50	73	64	91	70	77	71	56	74	64	83	70
33	PM 19102 M	132	110	135	124	124	110	68	87	82	66	74	88	109	86	93	81	57	77	60	77	71
34	PM 19103 M	128	106	113	122	117	101	61	90	82	58	95	68	117	84	91	76	60	74	66	74	70
35	SVMH-1130	104	89	108	124	106	98	67	95	82	74	90	81	115	88	93	65	57	71	63	73	65
36	SYN-916248	135	109	140	134	129	110	74	108	93	69	72	91	106	90	100	76	59	65	63	74	67
37	SYN916540	116	84	118	113	107	102	65	86	78	61	81	69	103	81	90	68	61	79	57	75	67
38	SYN916701	130	90	108	121	112	100	70	99	79	54	85	89	113	87	93	60	59	47	60	72	60
39	TS 2609	140	110	131	132	129	115	76	99	88	73	82	85	115	90	101	69	64	54	62	74	65
40	BIO 9544 (C)	127	113	110	122	118	102	74	88	76	66	81	92	110	86	94	70	54	69	58	75	66
41	CMH 08-292 (C)	142	131	120	147	136	111	88	122	109	72	99	110	125	104	112	67	56	58	65	74	63
42	DHM 121 (C)	124	100	114	126	115	99	75	97	81	81	90	77	100	87	93	61	58	55	61	72	61
	L Mean	128.1	101.5	117.8	126.9	118.6	105.7	72.5	93.9	85.6	68.5	85.3	86.6	109.3	88.4	95.8	69.2	58.2	65.5	60.2	73.6	65.3
	CV (%)	5.9	14.1	7.6	5.8	8.4	5.2	9.7	8.7	9.2	15.3	15.7	11.3	8.2	10.3	9.6	6.6	8.3	12.4	15.3	7.8	10.3
	F (Prob)	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.0	1.0	1.0	0.0	0.8	0.0	0.8	0.0	0.0
	CD (5%)	12.3	23.3	14.6	11.9	8.5	8.9	11.4	13.4	12.9	17.0	21.8	15.9	14.5	5.4	3.4	7.5	7.9	13.2	15.0	9.4	4.9
	CD (1%)	16.3	31.0	19.4	15.8	11.2	11.8	15.2	17.8	17.1	22.6	28.9	21.2	19.3	7.1	4.4	9.9	10.5	17.6	19.9	12.5	6.4

Table No. : 4 (Conti...) **Final Plant Stand (000/ha)**

S. No.	Entry Name	NEPZ					NWPZ					PZ									All India
		BHU	BHUB	DHOL	SABO	ZONE	IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7745	78	81	65	81	76	56	62	77	66	65	65	72	74	76	78	71	66	63	71	70
2	DKC 8205	78	78	73	79	76	51	63	79	70	66	62	80	81	72	77	66	64	67	71	70
3	DKC 8209	78	78	81	72	79	59	62	79	67	67	66	74	68	79	81	69	65	62	71	71
4	GGMH-114	74	80	71	80	77	63	61	80	68	69	63	77	74	75	77	63	65	66	70	71
5	GK 3207	76	81	78	76	77	52	64	79	65	65	64	70	66	69	81	72	65	64	69	68
6	HKH-371	75	76	66	72	73	51	64	77	66	64	65	67	69	75	75	64	65	58	67	66
7	HKH-372	70	73	69	70	71	48	64	73	61	62	63	68	74	67	77	65	63	59	67	65
8	HM 19203	75	69	76	74	74	64	63	79	69	69	66	78	71	78	77	68	64	62	70	70
9	HM 19305	77	72	72	73	73	57	62	74	68	65	64	82	76	64	81	67	63	65	70	69
10	HT 519015	74	79	81	76	76	51	62	79	66	65	64	73	72	81	76	66	62	63	70	70
11	IAHM 2016-38	76	75	60	73	72	53	62	73	50	60	62	76	67	65	78	69	66	65	68	65
12	IAHM2016-2	70	75	55	77	68	55	62	78	56	63	61	68	72	73	71	64	67	60	67	64
13	IIMWH 1901	77	78	74	79	78	65	64	80	67	69	61	76	75	74	82	69	62	64	71	71
14	IMHSB-19K-10	73	73	61	68	69	60	61	75	47	61	65	69	74	67	77	68	66	57	68	65
15	IMHSB-19K-11	78	79	76	71	75	65	64	81	66	69	62	77	75	68	81	68	63	63	70	70
16	IMHSB-19K-2	79	79	73	77	76	56	64	79	69	67	65	76	71	81	75	66	65	65	71	71
17	IMHSB-19K-3	77	75	72	70	74	58	64	78	59	64	65	70	72	72	76	65	64	67	69	68
18	IMHSB-19K-4	75	78	71	79	77	62	65	79	65	68	61	68	72	76	78	66	66	67	69	70
19	IMHSB-19K-5	78	77	80	81	79	65	65	76	65	67	67	66	77	73	76	72	62	65	70	71
20	IMHSB-19K-6	73	77	69	81	75	56	62	79	68	65	60	80	69	77	78	69	64	67	70	70
21	IMHSB-19K-7	78	77	62	69	72	51	63	78	56	63	61	68	68	70	81	69	63	64	68	66
22	IMHSB-19K-8	78	76	76	77	77	62	63	81	69	69	67	79	71	78	80	70	64	65	72	71
23	IMHSB-19K-9	76	75	78	74	74	62	64	77	62	66	65	75	76	69	77	67	64	62	70	69
24	IMHVS-101	78	71	75	82	76	47	63	74	66	63	64	77	78	70	78	68	65	63	70	69
25	JKMH 1481	77	77	81	81	78	66	62	78	69	68	64	76	73	74	80	70	65	64	71	71
26	KH 518	79	74	74	81	77	57	63	78	69	67	66	75	71	72	79	67	67	67	71	70
27	KSP-5391	76	78	76	84	78	64	62	72	66	66	63	73	75	71	77	65	67	65	70	70
28	MH 1941	68	74	66	79	72	49	63	65	57	59	66	45	74	69	76	62	63	64	65	62
29	MH 1945	74	74	63	70	70	38	63	76	58	59	59	65	69	65	76	60	59	62	65	64
30	MH 1948	70	69	68	77	72	62	64	71	61	64	65	64	75	67	79	63	63	61	67	67
31	NMH 4144	81	80	87	81	81	58	62	82	68	67	66	78	81	77	75	70	69	65	72	73
32	PM 19101 M	74	79	70	73	76	62	64	80	65	68	63	78	74	77	78	66	66	65	71	71
33	PM 19102 M	74	74	75	84	76	63	62	80	70	69	65	77	78	82	80	68	66	66	73	72
34	PM 19103 M	75	76	80	78	76	55	64	76	68	65	61	73	72	73	78	71	66	64	70	70
35	SVMH-1130	68	79	68	77	73	42	63	74	64	61	62	78	72	67	80	65	63	63	70	68
36	SYN-916248	80	77	70	83	76	54	60	81	62	64	65	73	78	80	75	67	63	64	71	70
37	SYN916540	76	79	76	75	77	57	65	78	63	65	62	78	70	72	80	67	60	63	69	69
38	SYN916701	68	69	67	74	71	66	63	74	57	65	67	69	73	67	73	60	61	59	67	66
39	TS 2609	76	80	72	76	77	52	65	73	59	63	66	80	74	71	79	66	64	65	70	69
40	BIO 9544 (C)	72	77	75	81	77	60	67	76	69	68	64	72	75	73	78	66	67	64	70	70
41	CMH 08-292 (C)	74	75	75	82	76	59	66	79	56	65	60	75	73	69	77	69	66	64	69	68
42	DHM 121 (C)	68	73	70	71	71	52	64	75	63	64	64	64	68	65	75	61	60	59	65	65
	L Mean	75.0	76.1	72.1	76.6	75.0	56.8	63.1	76.9	63.7	65.1	63.7	72.8	73.1	72.4	77.7	66.8	64.2	63.5	69.3	68.6
	CV (%)	4.8	4.9	11.6	9.5	8.1	13.7	4.4	4.4	6.8	7.6	4.2	10.1	7.4	6.4	3.6	9.8	5.1	5.5	7.0	8.2
	F (Prob)	0.0	0.0	0.0	0.5	0.0	0.1	0.9	0.0	0.0	0.0	0.1	0.0	0.4	0.0	0.0	1.0	0.3	0.1	0.0	0.0
	CD (5%)	5.9	6.0	13.6	11.9	5.0	12.7	4.6	5.6	7.1	4.1	4.3	12.0	8.8	7.5	4.5	10.7	5.3	5.7	2.9	2.0
	CD (1%)	7.8	8.0	18.0	15.8	6.6	16.9	6.1	7.4	9.4	5.4	5.8	16.0	11.6	10.0	6.0	14.2	7.1	7.6	3.8	2.7

Table No. : 4 (Conti...) **Moisture (%)**

S. No.	Entry Name	CWZ						NEPZ						NWPZ				
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BHUB	DHOL	RANC	SABO	ZONE	IARI	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7745	14.9	16.9	18.3	18.6	20.8	17.9	24.3	19.0	24.2	28.2	29.6	25.1	21.9	23.6	19.8	23.5	22.3
2	DKC 8205	15.1	16.7	18.1	17.7	20.9	17.7	26.3	19.5	23.6	27.3	29.8	25.3	21.9	23.0	20.2	29.7	23.8
3	DKC 8209	15.2	16.3	19.6	19.9	20.4	18.4	25.9	19.3	28.1	26.7	29.7	26.0	26.7	23.9	21.2	31.1	25.8
4	GGMH-114	16.8	16.0	18.5	16.5	21.9	17.8	25.3	18.8	24.1	27.0	28.7	24.8	24.8	23.8	19.5	26.5	23.8
5	GK 3207	14.4	15.9	17.0	16.8	20.4	17.0	24.3	19.2	19.8	29.2	29.8	24.5	25.9	22.4	19.0	25.9	23.0
6	HKH-371	14.7	16.6	16.2	19.2	20.0	17.3	25.7	19.4	26.4	26.7	26.6	25.0	22.6	23.3	21.1	27.4	23.8
7	HKH-372	13.9	16.4	17.2	18.5	22.0	17.6	22.7	19.8	23.7	26.3	30.5	24.7	22.4	21.6	19.6	28.9	23.5
8	HM 19203	15.1	16.4	17.7	18.8	21.4	17.9	29.1	19.4	27.2	27.0	31.3	26.9	24.5	23.1	20.3	31.1	24.9
9	HM 19305	17.7	16.7	17.4	18.6	22.0	18.4	24.5	19.3	26.1	26.6	29.2	25.1	23.3	22.1	19.8	27.2	23.4
10	HT 519015	16.8	16.6	17.4	19.1	22.8	18.6	28.7	19.1	24.8	27.5	26.6	25.3	25.4	22.6	20.7	34.2	25.4
11	IAHM 2016-38	14.3	16.3	13.0	18.6	19.7	16.3	22.0	20.2	20.7	26.3	29.3	23.8	21.7	21.9	19.2	22.5	21.7
12	IAHM2016-2	14.8	16.2	17.6	17.6	21.9	17.7	26.0	19.1	25.3	27.4	28.5	25.3	27.3	22.4	19.0	27.2	23.9
13	IIMWH 1901	15.3	15.8	18.2	17.2	21.0	17.4	23.1	18.8	24.0	29.7	28.4	24.8	23.0	21.5	21.9	24.1	22.3
14	IMHSB-19K-10	15.5	16.4	18.0	21.2	20.0	18.2	26.3	18.5	25.4	27.5	28.4	25.2	23.4	21.4	20.4	25.2	22.3
15	IMHSB-19K-11	17.5	16.5	19.1	15.2	20.6	17.7	24.5	18.2	25.7	26.4	27.6	24.6	22.3	22.6	21.9	26.1	23.2
16	IMHSB-19K-2	16.3	16.6	16.7	19.9	20.7	18.1	25.6	19.1	24.7	27.2	28.7	25.1	24.7	23.4	20.3	25.6	23.4
17	IMHSB-19K-3	14.4	15.5	15.2	18.7	20.0	16.8	23.6	19.4	20.2	27.9	30.1	24.1	23.4	22.3	20.4	21.4	22.1
18	IMHSB-19K-4	15.3	16.4	19.2	16.8	20.7	17.6	27.0	18.6	26.9	26.2	27.8	25.5	25.6	22.8	20.4	26.7	23.8
19	IMHSB-19K-5	16.0	16.8	18.0	19.4	20.1	18.0	25.8	19.0	24.3	26.0	26.2	24.3	25.8	23.0	23.8	26.8	24.9
20	IMHSB-19K-6	15.2	16.3	17.0	17.9	21.0	17.5	24.8	18.9	25.3	26.9	27.4	24.6	23.9	22.9	19.9	25.4	23.4
21	IMHSB-19K-7	14.8	16.2	16.1	16.1	22.4	17.2	24.3	18.7	23.0	25.5	29.4	24.2	23.7	22.9	19.3	25.9	22.8
22	IMHSB-19K-8	15.1	15.9	16.8	17.2	20.8	17.1	23.5	19.3	23.7	28.1	31.1	25.1	25.7	23.1	21.8	28.3	24.4
23	IMHSB-19K-9	14.5	16.1	18.9	17.0	20.7	17.5	25.1	19.7	27.1	26.7	30.6	25.8	25.5	22.9	19.6	26.5	23.8
24	IMHVS-101	16.6	16.4	16.4	18.4	20.9	17.7	24.3	18.5	23.4	26.3	30.0	24.5	24.2	21.8	20.7	23.4	22.4
25	JKMH 1481	20.8	16.1	20.4	18.2	21.2	19.4	25.7	19.8	29.0	28.0	28.1	26.1	25.3	21.8	20.2	31.4	24.8
26	KH 518	16.7	16.0	17.5	17.3	21.0	17.7	25.3	19.5	26.7	28.5	28.1	25.5	23.4	22.8	21.1	24.8	23.3
27	KSP-5391	15.5	16.5	16.2	18.0	22.8	17.8	25.6	19.3	26.7	25.7	30.6	25.6	24.3	23.2	22.2	29.6	24.5
28	MH 1941	13.9	16.3	16.9	18.7	20.1	17.2	23.3	19.0	21.6	28.0	26.1	23.5	24.1	22.8	20.5	22.5	22.1
29	MH 1945	14.7	16.5	18.8	18.9	21.2	18.1	27.8	19.1	27.6	27.6	31.5	26.5	24.0	23.7	22.0	29.0	24.8
30	MH 1948	16.1	16.6	19.4	17.4	21.2	18.1	26.1	19.8	27.0	27.8	30.7	26.3	24.2	22.7	22.7	30.5	24.6
31	NMH 4144	17.6	15.9	19.7	19.9	22.7	19.0	27.6	19.7	29.7	26.1	30.1	26.7	23.4	22.2	20.0	24.9	22.9
32	PM 19101 M	14.9	16.0	16.6	18.8	20.7	17.4	23.2	18.5	25.4	25.9	29.2	24.4	25.5	22.7	20.6	23.2	22.9
33	PM 19102 M	18.2	16.6	17.7	19.9	20.9	18.6	23.4	19.6	25.6	27.1	27.8	24.6	25.4	22.7	20.2	23.6	22.9
34	PM 19103 M	15.5	16.2	16.4	17.2	20.7	17.2	23.8	18.1	24.3	27.6	27.3	24.4	21.7	22.3	19.4	25.3	22.0
35	SVMH-1130	13.7	16.6	17.7	20.2	21.1	18.1	24.4	19.6	24.9	27.3	29.3	25.0	24.5	23.7	20.9	26.3	23.8
36	SYN-916248	16.9	15.7	18.5	17.0	20.0	17.7	28.5	19.1	29.1	27.0	29.1	26.6	23.9	21.7	23.7	30.3	25.1
37	SYN916540	16.2	15.8	22.0	18.4	21.9	18.7	27.8	19.7	29.4	27.8	31.3	27.1	25.4	23.0	22.4	29.8	25.6
38	SYN916701	14.5	15.9	18.9	17.6	21.9	17.8	27.3	19.2	27.9	27.6	29.1	26.2	24.2	22.5	21.0	31.9	24.7
39	TS 2609	14.7	16.3	18.2	17.9	22.8	18.0	25.7	19.4	26.9	27.2	28.1	25.6	24.2	21.4	23.1	26.2	23.6
40	BIO 9544 (C)	15.4	15.8	18.0	18.3	20.3	17.6	27.2	19.5	24.8	28.9	28.2	25.6	25.3	24.3	21.6	29.1	24.7
41	CMH 08-292 (C)	14.8	16.2	17.9	19.0	21.4	17.9	25.8	18.6	26.1	26.5	30.0	25.3	23.8	22.9	20.4	27.0	23.5
42	DHM 121 (C)	14.6	16.3	19.2	16.6	20.5	17.5	26.3	19.7	25.4	26.6	26.1	24.9	23.1	21.7	19.9	26.3	23.1
	L Mean	15.6	16.3	17.8	18.2	21.1	17.8	25.4	19.2	25.4	27.2	29.0	25.1	24.2	22.7	20.8	27.0	23.6
	CV (%)	8.9	1.9	6.9	6.9	0.0	5.7	3.7	2.1	3.5	4.3	5.0	4.0	11.6	4.9	3.4	7.8	7.7
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	1.0	0.4	0.0	0.0	0.0
	CD (5%)	2.3	0.5	2.0	2.1	0.0	0.8	1.5	0.7	1.5	2.0	2.3	0.8	4.6	1.8	1.2	3.4	1.5
	CD (1%)	3.0	0.7	2.7	2.7	0.0	1.0	2.0	0.9	1.9	2.6	3.1	1.0	6.1	2.4	1.5	4.5	1.9

Table No. : 4 (Conti...)		Moisture (%)										Days to 75% Dry husk											
		PZ									All	CWZ						NEPZ					
S. No.	Entry Name	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	India	AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7745	16.3	9.2	17.8	21.1	16.4	15.2	19.1	18.2	17	20	93	88	95	92	91	92	90	87	89	88	92	89
2	DKC 8205	17.1	10.0	19.8	20.7	16.7	15.8	19.0	18.5	17	20	95	88	99	91	96	94	92	89	91	87	90	90
3	DKC 8209	16.5	9.5	18.7	19.6	17.0	15.4	18.5	18.5	17	21	94	85	98	90	94	93	92	87	90	87	93	90
4	GGMH-114	16.8	8.9	19.1	20.3	17.3	16.1	20.1	18.1	17	20	92	85	97	94	92	92	90	88	90	87	89	89
5	GK 3207	16.5	8.6	20.2	19.5	17.0	15.2	19.1	18.5	17	20	92	87	94	92	92	91	92	88	87	88	90	89
6	HKH-371	16.8	8.7	19.8	19.7	16.5	14.6	19.3	18.0	17	20	96	87	96	92	93	93	92	89	92	88	90	90
7	HKH-372	15.3	10.5	21.3	19.4	17.5	14.4	21.8	18.8	17	20	95	87	100	89	96	93	92	88	89	88	91	90
8	HM 19203	16.0	14.6	17.0	20.7	18.1	15.0	21.0	18.9	18	21	97	86	101	92	96	94	93	88	96	90	89	91
9	HM 19305	16.2	7.3	19.3	20.9	18.3	16.3	19.0	18.5	17	20	93	87	97	91	94	92	89	88	90	88	90	89
10	HT 519015	17.0	12.6	22.1	20.4	15.9	15.4	21.1	18.6	18	21	93	88	98	92	93	93	94	87	95	88	92	91
11	IAHM 2016-38	16.3	8.8	17.2	18.5	16.0	14.2	22.9	18.3	17	19	91	86	93	91	93	91	88	88	86	88	89	88
12	IAHM2016-2	16.7	11.3	16.5	18.6	16.7	15.5	18.3	19.1	17	20	95	79	99	91	95	92	94	89	93	88	91	91
13	IIMWH 1901	16.6	10.5	18.2	18.1	17.9	15.1	19.2	18.4	17	20	93	88	95	91	94	92	89	88	90	87	90	89
14	IMHSB-19K-10	17.0	12.0	17.7	19.5	17.2	15.5	19.2	18.4	17	20	94	86	98	93	92	93	93	89	91	89	90	90
15	IMHSB-19K-11	16.4	10.8	20.2	20.9	16.5	15.5	18.1	18.5	17	20	92	85	97	92	92	92	91	88	90	88	92	90
16	IMHSB-19K-2	16.1	11.3	20.3	21.0	16.3	15.7	17.7	18.1	17	20	91	85	97	92	91	91	89	87	86	88	92	88
17	IMHSB-19K-3	15.4	12.0	17.5	17.3	16.4	14.9	20.9	18.1	17	19	91	88	94	91	91	91	90	88	84	89	90	88
18	IMHSB-19K-4	16.7	11.0	20.2	21.6	17.4	14.9	20.8	18.5	18	20	95	87	96	91	95	93	91	88	92	87	91	90
19	IMHSB-19K-5	15.4	13.1	19.7	20.5	17.0	15.5	21.9	18.0	18	21	93	86	97	94	94	93	92	87	89	86	90	89
20	IMHSB-19K-6	16.1	11.4	18.1	19.0	17.0	15.3	18.2	18.3	17	20	94	88	96	89	93	92	92	87	91	87	90	90
21	IMHSB-19K-7	16.1	13.3	20.5	19.0	16.7	14.3	18.5	18.6	17	20	94	87	96	92	97	93	94	88	92	91	92	92
22	IMHSB-19K-8	16.2	11.8	19.6	20.4	17.1	15.9	19.4	18.3	17	20	92	83	95	92	93	92	90	89	89	88	89	89
23	IMHSB-19K-9	15.9	9.1	20.8	19.6	18.1	15.2	18.0	18.6	17	20	93	87	100	92	95	94	93	88	93	90	91	91
24	IMHVS-101	15.9	10.0	19.4	19.6	17.1	15.7	19.9	18.5	17	20	93	85	96	91	92	91	91	87	88	88	89	89
25	JKMH 1481	16.7	13.1	20.6	21.0	17.6	15.9	21.7	18.4	18	21	97	86	99	90	91	93	91	88	93	90	91	91
26	KH 518	16.4	12.2	20.6	20.4	16.6	15.7	21.0	18.6	18	21	97	87	99	90	95	94	94	88	94	90	93	92
27	KSP-5391	16.3	9.4	19.4	20.7	17.5	13.7	20.9	18.3	17	21	95	87	96	92	91	92	91	88	90	87	91	90
28	MH 1941	15.7	12.4	15.7	18.6	16.3	14.7	17.4	18.2	16	19	92	86	98	92	94	93	88	88	86	89	90	88
29	MH 1945	15.9	8.8	19.2	20.7	17.8	14.7	21.0	18.3	17	21	93	85	97	90	93	92	92	89	92	88	92	91
30	MH 1948	15.9	11.2	19.0	21.6	18.8	15.3	21.1	18.2	18	21	96	87	98	94	97	94	92	90	90	87	90	90
31	NMH 4144	16.3	12.1	22.5	20.2	17.8	16.5	20.1	18.7	18	21	99	86	101	94	95	95	93	89	96	88	89	91
32	PM 19101 M	16.3	9.7	19.3	17.3	17.6	15.1	16.7	18.1	16	20	91	87	95	89	93	91	88	89	88	90	89	89
33	PM 19102 M	16.4	11.8	19.0	18.1	16.1	14.9	14.8	18.3	16	20	93	87	96	92	96	93	92	87	93	88	90	90
34	PM 19103 M	16.5	10.4	23.4	19.2	16.2	14.5	18.7	18.3	17	20	93	87	97	91	95	93	93	90	89	87	90	90
35	SVMH-1130	16.8	12.4	20.9	21.2	16.9	14.7	19.4	18.7	18	21	93	86	98	93	93	93	92	88	92	89	93	91
36	SYN-916248	16.2	10.4	21.7	21.6	17.1	16.3	20.6	18.8	18	21	99	89	101	91	96	95	94	88	96	89	93	92
37	SYN916540	15.4	11.7	23.2	20.5	17.9	17.4	19.8	19.3	18	22	95	88	100	93	95	94	94	88	94	89	92	91
38	SYN916701	16.1	14.1	19.4	21.9	16.7	16.1	19.5	18.5	18	21	97	87	100	92	96	94	93	89	94	89	92	91
39	TS 2609	15.9	11.2	20.8	20.7	17.9	15.0	21.0	18.5	18	21	96	86	103	92	97	95	94	90	91	89	93	91
40	BIO 9544 (C)	16.8	11.7	19.3	21.6	16.2	15.1	21.1	18.8	18	21	97	88	98	90	96	94	93	88	95	87	93	91
41	CMH 08-292 (C)	17.0	10.6	19.3	20.1	17.0	15.5	17.3	18.4	17	20	91	86	97	93	91	91	91	88	87	87	88	88
42	DHM 121 (C)	16.2	10.2	20.8	20.1	17.3	15.5	19.1	18.2	17	20	93	87	98	91	93	92	91	88	92	90	93	91
	L Mean	16.3	10.9	19.6	20.0	17.1	15.3	19.6	18.5	17.2	20.2	94.1	86.4	97.5	91.6	93.9	92.7	91.7	88.1	90.8	88.2	90.8	89.9
	CV (%)	2.9	15.1	9.9	6.2	2.8	3.6	0.0	1.8	6.1	6.1	1.6	3.4	1.7	2.1	2.3	2.3	1.8	1.6	2.2	1.6	1.9	1.8
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.4	0.0	1.0	0.0	0.5	0.0	0.1	0.0	1.0
	CD (5%)	0.8	2.7	3.2	2.0	0.8	0.9	0.0	0.5	0.6	0.4	2.4	4.8	2.8	3.1	3.5	1.6	2.7	2.3	3.2	2.3	2.8	1.2
	CD (1%)	1.0	3.6	4.2	2.7	1.0	1.2	0.0	0.7	0.8	0.6	3.2	6.4	3.7	4.1	4.6	2.0	3.5	3.0	4.2	3.1	3.7	1.6

Table No. : 4 (Conti...)		Days to 75% Dry husk															Days to 50% Anthesis					
S. No.	Entry Name	NWPZ					PZ									All India	CWZ					
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE		AMBI	BANS	CHIN	GODH	UDAI	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7745	92	88	93	101	94	93	101	100	101	98	91	84	92	95	93	50	52	58	54	52	53
2	DKC 8205	91	88	92	104	94	94	101	100	97	97	99	84	95	96	94	49	52	57	53	53	53
3	DKC 8209	92	89	91	103	94	96	101	99	101	96	100	85	93	96	94	52	52	58	52	53	53
4	GGMH-114	90	86	92	102	92	96	98	97	98	98	97	83	92	95	92	49	52	58	56	52	54
5	GK 3207	94	87	91	102	94	94	102	98	93	98	98	82	95	95	92	49	52	55	56	53	53
6	HKH-371	98	86	89	102	93	98	102	102	98	98	100	84	94	97	94	51	52	60	56	54	54
7	HKH-372	98	85	92	102	94	96	102	101	98	100	100	84	97	97	94	52	52	59	53	54	54
8	HM 19203	98	88	97	103	96	95	102	99	101	102	103	84	98	98	95	51	53	59	56	54	55
9	HM 19305	90	88	89	102	92	94	100	101	98	104	100	84	95	97	93	50	52	57	54	54	54
10	HT 519015	89	86	96	106	94	94	102	99	101	99	99	85	96	97	94	50	52	59	55	53	54
11	IAHM 2016-38	91	89	94	101	94	92	102	99	91	94	91	81	91	93	91	48	52	55	54	53	53
12	IAHM2016-2	98	86	95	103	96	95	104	99	94	99	104	84	99	97	94	50	54	60	54	54	55
13	IIMWH 1901	92	91	96	102	95	96	101	100	96	101	92	83	93	95	93	51	54	59	53	53	54
14	IMHSB-19K-10	95	90	92	101	95	96	100	102	99	102	103	84	94	97	94	51	52	59	56	55	54
15	IMHSB-19K-11	98	89	96	102	96	93	99	100	99	97	102	82	96	96	94	50	52	58	53	53	53
16	IMHSB-19K-2	89	86	90	101	92	94	103	99	94	97	102	85	89	95	92	49	50	57	58	53	53
17	IMHSB-19K-3	97	86	94	101	94	91	100	98	97	100	92	81	93	94	92	49	53	56	55	53	53
18	IMHSB-19K-4	97	88	95	102	95	96	101	100	100	99	101	86	99	98	94	53	52	60	54	54	55
19	IMHSB-19K-5	96	89	94	102	95	96	104	99	99	102	99	83	95	97	94	52	52	60	56	53	54
20	IMHSB-19K-6	95	87	93	102	94	94	102	100	99	98	97	83	93	96	93	50	52	56	53	53	53
21	IMHSB-19K-7	96	89	95	105	96	96	104	102	103	102	97	85	98	98	95	52	52	61	54	54	55
22	IMHSB-19K-8	89	87	90	101	92	94	101	98	94	98	106	82	91	95	92	49	50	56	55	53	52
23	IMHSB-19K-9	96	89	96	103	96	96	105	101	100	103	100	85	96	98	95	52	54	61	55	53	55
24	IMHVS-101	93	89	89	101	93	94	99	99	98	99	97	83	95	95	92	51	51	58	56	54	54
25	JKMH 1481	95	89	94	103	95	99	106	100	100	102	104	87	96	99	95	51	52	60	53	54	54
26	KH 518	94	87	95	101	95	95	102	101	97	99	107	85	96	98	95	50	53	60	52	53	54
27	KSP-5391	90	87	96	103	94	93	103	100	96	95	98	84	93	95	93	50	53	56	52	54	53
28	MH 1941	95	85	88	101	92	94	102	100	96	97	96	81	93	95	92	49	53	59	53	54	53
29	MH 1945	93	86	90	102	93	94	102	101	95	97	100	84	93	96	93	50	51	57	53	54	53
30	MH 1948	93	86	89	102	92	95	102	98	98	96	106	84	94	97	94	50	53	57	55	54	54
31	NMH 4144	99	87	96	102	96	96	100	99	100	102	99	84	98	97	95	52	52	59	57	53	55
32	PM 19101 M	92	85	90	101	92	93	101	97	95	96	96	83	92	94	92	50	52	54	52	54	52
33	PM 19102 M	96	84	93	102	94	92	101	99	94	97	100	83	94	95	93	49	53	56	55	54	53
34	PM 19103 M	94	85	92	102	93	95	100	100	95	97	105	83	92	96	93	51	52	55	57	54	54
35	SVMH-1130	94	89	94	102	95	95	105	99	102	103	102	86	99	99	95	50	52	60	55	52	54
36	SYN-916248	97	87	97	105	97	98	105	101	100	103	108	86	97	100	96	53	53	61	56	54	55
37	SYN916540	94	90	92	102	95	95	101	101	102	105	102	85	101	99	95	51	53	61	55	55	55
38	SYN916701	96	88	95	105	96	96	104	98	101	104	105	85	97	99	96	51	53	62	52	54	55
39	TS 2609	96	89	95	101	95	98	105	102	103	104	104	85	97	100	96	52	53	61	53	55	55
40	BIO 9544 (C)	90	89	97	104	95	94	105	99	97	99	105	85	97	98	95	52	54	59	56	53	55
41	CMH 08-292 (C)	92	88	89	101	92	94	100	99	98	100	93	82	94	95	92	49	52	57	55	53	53
42	DHM 121 (C)	97	89	95	102	96	96	103	101	99	102	96	86	96	97	94	51	52	61	54	54	54
	L Mean	94.1	87.5	93.1	102.3	94.2	94.9	102.0	99.7	98.0	99.5	99.9	83.8	94.9	96.6	93.8	50.5	52.3	58.3	54.4	53.6	53.8
	CV (%)	3.1	1.8	2.5	1.4	2.3	1.2	2.5	1.7	2.3	2.8	4.1	1.2	2.8	2.5	2.3	2.1	1.8	1.9	5.4	2.0	3.0
	F (Prob)	0.0	0.0	0.0	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.9	0.3	1.0
	CD (5%)	4.8	2.5	3.7	2.3	1.7	1.9	4.1	2.8	3.6	4.6	6.7	1.6	4.3	1.5	0.8	1.8	1.6	1.8	4.8	1.8	1.2
	CD (1%)	6.4	3.4	5.0	3.1	2.3	2.5	5.4	3.7	4.8	6.1	8.9	2.2	5.7	1.9	1.0	2.3	2.1	2.4	6.3	2.3	1.6

Table No. : 4 (Conti...) **Days to 50% Anthesis**

S. No.	Entry Name	NEPZ						NWPZ					PZ									All India
		BHU	BHUB	DHOL	RANC	SABO	ZONE	IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7745	56	48	51	46	54	51	47	56	57	58	54	52	59	58	58	58	54	50	56	56	54
2	DKC 8205	55	48	48	45	54	50	48	57	55	59	54	53	59	57	55	58	56	50	56	56	54
3	DKC 8209	57	48	52	46	55	52	47	56	56	59	55	54	58	57	57	57	56	51	56	56	54
4	GGMH-114	55	48	50	45	54	50	45	54	54	58	53	53	57	55	55	58	56	49	55	55	53
5	GK 3207	55	49	52	45	54	51	51	54	55	58	55	51	59	56	52	58	55	47	57	54	53
6	HKH-371	55	49	52	47	53	51	53	53	54	59	55	55	62	59	56	60	57	50	59	57	55
7	HKH-372	58	48	51	46	55	52	51	49	55	58	54	55	60	58	56	61	55	50	61	57	54
8	HM 19203	57	48	52	47	54	52	51	56	55	58	55	55	60	56	58	62	57	50	58	57	55
9	HM 19305	56	49	52	46	55	52	45	55	55	58	53	53	59	59	55	64	57	50	57	57	54
10	HT 519015	57	49	53	46	55	52	44	52	56	60	53	54	62	56	58	59	56	51	57	57	54
11	IAHM 2016-38	54	47	46	45	52	49	45	55	57	57	54	48	60	56	51	54	52	46	54	53	52
12	IAHM2016-2	59	49	51	46	54	52	54	54	55	60	55	53	60	57	54	59	55	50	57	56	55
13	IIMWH 1901	56	48	53	46	54	51	48	57	58	58	55	54	60	58	54	61	56	49	56	56	54
14	IMHSB-19K-10	58	48	50	47	55	52	50	58	56	59	56	54	59	59	55	62	56	50	57	57	55
15	IMHSB-19K-11	57	48	52	46	54	51	53	56	58	59	56	51	60	58	56	59	56	47	58	56	54
16	IMHSB-19K-2	55	49	48	46	54	50	41	52	54	57	51	53	57	57	53	58	57	50	54	55	53
17	IMHSB-19K-3	54	48	50	46	52	50	50	53	56	57	54	48	58	56	54	61	53	46	56	54	53
18	IMHSB-19K-4	58	48	52	47	55	52	53	56	56	58	56	55	60	58	58	59	57	52	60	57	55
19	IMHSB-19K-5	57	48	53	46	53	51	50	56	59	59	56	54	61	57	56	62	57	49	58	57	55
20	IMHSB-19K-6	57	48	51	46	55	51	48	54	55	60	54	52	59	58	56	58	57	49	58	56	54
21	IMHSB-19K-7	60	49	52	47	55	53	53	57	57	61	57	56	62	60	60	62	57	52	60	59	56
22	IMHSB-19K-8	55	48	48	46	53	50	41	53	55	58	52	52	57	56	53	57	56	48	54	54	52
23	IMHSB-19K-9	57	49	55	48	54	52	50	57	57	60	56	54	61	59	58	63	57	50	58	58	56
24	IMHVS-101	57	48	50	46	54	51	46	55	56	58	53	54	58	57	55	59	56	48	56	55	54
25	JKMH 1481	58	48	55	48	55	53	52	56	57	60	56	56	63	58	58	61	59	53	59	59	56
26	KH 518	57	48	54	46	55	52	53	53	56	58	55	53	60	59	55	60	57	51	56	57	55
27	KSP-5391	57	49	48	45	53	50	46	54	55	60	53	50	58	58	54	55	55	50	56	54	53
28	MH 1941	56	47	49	47	54	51	52	51	54	58	54	53	59	58	55	57	55	46	56	55	53
29	MH 1945	56	49	48	46	54	51	49	52	54	58	54	53	60	59	54	57	57	49	56	56	54
30	MH 1948	56	49	49	45	53	50	48	53	55	59	53	54	58	56	55	57	57	50	55	55	53
31	NMH 4144	57	47	53	46	54	52	52	53	57	60	55	54	60	57	58	63	57	50	59	57	55
32	PM 19101 M	55	49	47	45	52	50	49	48	53	58	52	51	57	55	53	54	53	49	56	53	52
33	PM 19102 M	55	48	52	46	53	51	49	49	55	58	53	51	58	57	53	58	55	48	55	54	53
34	PM 19103 M	57	49	48	46	54	51	49	50	54	58	53	53	58	58	54	58	56	48	56	55	53
35	SVMH-1130	58	49	52	47	55	52	51	56	57	58	56	53	61	57	59	62	57	51	59	57	55
36	SYN-916248	60	49	54	47	56	53	51	54	57	62	56	56	62	59	59	63	56	52	61	58	56
37	SYN916540	59	48	54	47	55	53	49	57	57	59	56	54	62	59	58	66	57	51	59	58	56
38	SYN916701	58	48	54	47	55	52	51	56	58	61	56	55	63	56	58	64	58	51	59	58	56
39	TS 2609	60	49	53	46	54	52	54	57	56	59	57	56	62	60	59	64	57	51	60	59	56
40	BIO 9544 (C)	59	49	53	46	55	52	44	56	57	59	54	53	60	57	55	59	56	51	57	56	55
41	CMH 08-292 (C)	58	49	51	45	54	51	47	55	54	58	54	53	58	57	55	60	55	48	56	55	53
42	DHM 121 (C)	56	49	53	47	54	52	54	55	55	58	56	54	61	58	56	62	57	52	58	57	55
	L Mean	56.8	48.4	51.3	46.1	54.0	51.3	49.2	54.3	55.8	58.8	54.5	53.2	59.7	57.6	55.8	59.7	56.0	49.6	57.2	56.1	54.2
	CV (%)	1.7	2.3	4.0	1.3	1.3	2.4	7.1	4.3	1.9	2.4	4.2	1.9	2.1	2.9	2.7	4.3	2.1	2.5	2.2	2.7	3.0
	F (Prob)	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.1	1.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.0	1.0
	CD (5%)	1.6	1.8	3.4	1.0	1.2	0.9	5.7	3.8	1.7	2.3	1.9	1.7	2.0	2.7	2.4	4.2	1.9	2.0	2.0	0.9	0.6
	CD (1%)	2.1	2.4	4.5	1.3	1.6	1.2	7.6	5.0	2.2	3.0	2.5	2.2	2.7	3.6	3.2	5.6	2.5	2.7	2.7	1.2	0.8

Table No. : 4 (Conti...) **Days to 50% Silking**

S. No.	Entry Name	CWZ						NEPZ						NWPZ				
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BHUB	DHOL	RANC	SABO	ZONE	IARI	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7745	53	55	60	58	54	56	58	49	53	50	58	54	50	57	58	61	56
2	DKC 8205	52	55	58	56	56	55	57	50	50	49	58	53	50	57	56	62	56
3	DKC 8209	54	55	60	56	56	56	59	50	54	50	60	55	50	58	58	62	57
4	GGMH-114	53	55	60	60	55	57	57	50	53	49	58	53	48	54	55	61	54
5	GK 3207	52	55	57	59	56	56	57	50	54	49	59	54	53	55	57	61	57
6	HKH-371	54	55	62	60	56	57	59	50	55	51	58	54	56	54	55	62	57
7	HKH-372	54	55	59	57	56	56	60	49	53	50	59	55	54	50	56	61	56
8	HM 19203	54	56	62	60	56	57	60	50	54	51	58	55	54	57	56	61	57
9	HM 19305	52	55	59	58	56	56	58	50	55	50	59	54	47	56	55	61	55
10	HT 519015	53	55	60	58	55	56	59	50	56	50	59	55	47	54	57	63	55
11	IAHM 2016-38	52	55	56	58	55	55	56	49	49	49	56	52	48	56	59	60	56
12	IAHM2016-2	52	58	62	58	57	57	61	50	54	50	58	55	56	54	56	62	57
13	IIMWH 1901	53	57	60	57	56	57	57	49	55	50	58	54	51	59	59	61	57
14	IMHSB-19K-10	54	55	61	59	57	57	59	50	53	51	59	54	53	60	57	62	58
15	IMHSB-19K-11	53	55	59	57	55	56	59	49	54	50	58	54	56	56	58	62	58
16	IMHSB-19K-2	52	53	58	61	55	56	57	50	51	50	58	53	44	53	55	60	53
17	IMHSB-19K-3	52	56	58	59	56	56	57	50	53	50	57	53	52	54	56	61	56
18	IMHSB-19K-4	55	55	59	57	57	57	59	49	55	50	59	55	56	57	57	61	58
19	IMHSB-19K-5	55	55	62	60	56	57	59	50	55	50	58	54	54	57	58	62	58
20	IMHSB-19K-6	53	55	58	57	55	56	59	49	54	49	59	54	51	54	57	63	56
21	IMHSB-19K-7	54	56	62	58	57	57	62	50	55	51	60	56	56	58	59	63	59
22	IMHSB-19K-8	52	53	58	59	55	55	57	49	51	50	56	53	44	54	56	60	54
23	IMHSB-19K-9	55	57	63	58	56	58	60	51	57	52	61	56	53	57	59	66	59
24	IMHVS-101	54	54	60	59	56	56	60	51	53	50	58	54	50	56	57	61	55
25	JKMH 1481	54	55	63	57	56	57	60	49	57	52	61	56	55	57	58	62	58
26	KH 518	53	56	61	57	55	56	59	49	57	50	60	55	55	55	58	61	57
27	KSP-5391	53	56	57	56	56	56	58	50	51	49	57	53	48	55	55	62	55
28	MH 1941	52	56	60	57	56	56	59	48	51	51	58	54	54	52	54	61	56
29	MH 1945	53	54	59	57	56	56	58	50	51	50	59	54	52	52	55	61	55
30	MH 1948	53	56	58	59	57	56	58	50	52	49	56	53	51	54	54	62	55
31	NMH 4144	55	56	61	60	56	57	59	49	56	50	58	55	56	53	58	62	57
32	PM 19101 M	53	56	56	56	56	55	55	50	50	49	57	52	52	49	54	60	54
33	PM 19102 M	51	56	56	59	56	56	57	49	54	50	57	53	52	51	55	62	55
34	PM 19103 M	53	55	57	60	56	56	58	50	51	49	59	53	51	51	55	60	54
35	SVMH-1130	53	55	62	59	55	57	60	50	54	50	60	55	54	57	58	61	58
36	SYN-916248	56	56	62	59	57	58	62	50	57	51	60	56	55	55	59	65	59
37	SYN916540	54	56	61	59	57	57	60	49	56	51	60	55	52	58	59	62	58
38	SYN916701	55	56	63	55	57	57	60	50	56	51	60	55	54	56	59	64	58
39	TS 2609	55	56	62	57	56	57	62	50	56	51	60	56	57	58	57	62	59
40	BIO 9544 (C)	55	56	59	60	56	57	61	50	57	50	60	55	47	57	58	62	56
41	CMH 08-292 (C)	53	55	57	59	55	56	60	50	53	49	58	54	49	57	55	61	55
42	DHM 121 (C)	54	55	62	58	56	57	58	50	56	51	59	55	56	56	56	61	58
	L Mean	53.4	55.4	59.7	58.2	55.9	56.5	58.9	49.6	53.8	50.1	58.6	54.2	52.0	55.2	56.8	61.7	56.4
	CV (%)	1.9	1.8	1.8	5.0	1.7	2.8	1.8	2.3	3.5	1.3	1.6	2.2	6.6	4.2	1.6	2.1	3.9
	F (Prob)	0.0	0.0	0.0	0.9	0.3	1.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0
	CD (5%)	1.7	1.6	1.8	4.8	1.5	1.2	1.8	1.8	3.0	1.1	1.5	0.9	5.6	3.8	1.5	2.1	1.8
	CD (1%)	2.2	2.2	2.3	6.3	2.0	1.6	2.3	2.4	4.0	1.4	2.0	1.2	7.4	5.0	1.9	2.8	2.4

Table No. : 4 (Conti...)		Days to 50% Silking										Plant Height (cm)											
		PZ									All	CWZ						NEPZ					
S. No.	Entry Name	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	India	AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7745	55	61	60	60	56	56	52	58	57	56	270	187	181	195	200	206	204	181	199	193	163	189
2	DKC 8205	56	60	60	57	55	57	51	58	57	55	255	187	180	188	163	196	201	191	192	195	168	188
3	DKC 8209	57	60	59	60	55	57	52	58	57	56	249	181	167	185	186	193	189	169	181	180	163	177
4	GGMH-114	56	59	57	57	55	57	51	57	56	55	267	175	175	189	184	199	182	168	213	184	162	182
5	GK 3207	55	61	58	54	56	57	49	59	56	55	273	181	186	184	210	207	207	179	208	210	179	197
6	HKH-371	58	63	62	58	56	59	51	61	59	57	272	196	184	190	211	210	201	192	203	207	167	194
7	HKH-372	56	62	61	59	59	56	52	63	58	56	279	185	212	189	220	216	214	177	212	197	174	196
8	HM 19203	57	62	59	60	59	58	52	60	59	57	262	207	193	199	199	210	209	186	194	216	162	192
9	HM 19305	56	61	61	57	62	58	52	59	58	56	260	178	183	185	188	199	182	171	186	188	156	177
10	HT 519015	56	64	59	60	57	58	53	58	58	56	259	186	174	193	197	203	203	168	186	198	154	181
11	IAHM 2016-38	51	61	59	53	51	54	48	56	54	54	242	164	153	187	168	182	180	160	187	195	141	172
12	IAHM2016-2	56	63	59	55	57	56	51	59	57	57	263	180	179	189	166	195	196	167	194	191	162	181
13	IIMWH 1901	57	61	60	56	59	57	51	57	57	56	255	175	169	188	183	194	190	161	181	191	154	176
14	IMHSB-19K-10	57	61	62	58	60	58	52	59	58	57	248	182	160	181	190	192	192	165	189	181	150	176
15	IMHSB-19K-11	54	61	60	58	55	57	49	60	57	56	267	183	185	187	194	204	193	175	191	207	162	185
16	IMHSB-19K-2	55	59	59	55	55	58	52	56	56	55	260	194	192	189	196	206	181	178	199	189	175	186
17	IMHSB-19K-3	52	60	58	56	59	56	48	58	56	55	269	197	194	192	219	213	206	187	203	211	179	197
18	IMHSB-19K-4	57	61	60	60	57	58	54	61	59	57	280	198	199	189	202	213	218	192	204	205	169	199
19	IMHSB-19K-5	57	63	59	58	60	59	51	60	58	57	254	189	181	183	191	199	186	179	189	201	165	185
20	IMHSB-19K-6	55	61	60	58	56	58	51	59	57	56	288	176	185	193	206	210	200	180	206	212	174	194
21	IMHSB-19K-7	58	64	62	61	60	59	53	62	60	58	252	191	195	194	199	207	218	180	211	194	158	192
22	IMHSB-19K-8	55	59	58	55	55	58	50	56	56	55	224	168	149	194	163	180	180	155	179	183	147	170
23	IMHSB-19K-9	57	63	61	60	62	59	52	61	59	58	262	177	169	189	195	198	203	187	196	200	157	187
24	IMHVS-101	56	60	59	57	57	58	50	58	57	56	277	184	183	194	212	212	205	181	206	197	176	193
25	JKMH 1481	60	65	60	61	59	60	55	60	60	58	272	185	197	205	206	213	204	170	167	206	166	181
26	KH 518	56	62	61	57	57	59	53	58	58	57	265	172	177	186	191	199	198	171	194	185	164	181
27	KSP-5391	54	60	60	56	53	56	52	57	56	55	257	197	197	186	202	208	202	182	199	202	162	188
28	MH 1941	55	61	60	57	55	56	48	58	56	56	241	184	166	187	174	191	189	166	173	192	147	174
29	MH 1945	55	62	61	56	55	58	51	58	57	56	230	168	163	183	186	187	175	159	174	179	145	166
30	MH 1948	56	60	58	57	54	57	52	57	57	55	264	192	176	181	176	196	201	182	195	199	156	188
31	NMH 4144	57	61	59	60	61	57	52	60	58	57	290	183	191	181	199	210	217	180	209	211	176	198
32	PM 19101 M	54	59	57	55	52	56	50	58	55	54	228	172	152	207	158	183	151	154	152	173	129	152
33	PM 19102 M	53	59	59	55	55	56	50	58	56	55	249	179	170	179	184	194	196	176	189	198	159	183
34	PM 19103 M	55	60	60	56	56	57	50	58	56	55	266	193	174	194	194	204	194	179	190	191	161	184
35	SVMH-1130	56	63	59	61	60	59	53	61	59	57	240	174	177	191	192	196	198	173	194	191	162	184
36	SYN-916248	59	64	61	61	61	59	54	63	60	58	264	184	179	195	187	202	208	170	191	194	174	187
37	SYN916540	56	64	61	61	64	58	53	60	60	58	259	180	177	185	184	198	188	175	186	189	154	178
38	SYN916701	58	65	58	61	62	60	54	62	60	58	282	192	197	178	194	207	193	179	194	204	146	185
39	TS 2609	59	64	62	62	62	60	52	62	60	58	279	204	191	183	208	212	203	191	194	203	164	192
40	BIO 9544 (C)	56	62	59	57	57	58	53	59	58	57	231	174	161	189	183	188	182	157	178	191	151	172
41	CMH 08-292 (C)	55	60	59	57	58	57	50	58	57	56	296	203	212	188	216	223	218	205	204	201	184	203
42	DHM 121 (C)	57	62	61	58	60	59	54	60	59	57	251	188	187	201	206	206	180	179	182	201	167	182
	L Mean	56.0	61.5	59.7	57.8	57.4	57.6	51.5	59.0	57.6	56.3	260.8	184.5	180.3	189.2	192.4	201.4	196.1	175.7	192.2	196.1	161.5	184.3
	CV (%)	1.6	2.2	2.9	2.6	4.8	1.9	2.3	2.0	2.7	2.9	4.6	5.7	4.4	5.5	8.5	5.8	5.2	4.7	8.5	5.8	6.1	6.3
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.4	0.0	1.0	0.0	0.0	0.1	0.0	0.0	1.0
	CD (5%)	1.4	2.2	2.8	2.5	4.5	1.8	1.9	2.0	0.9	0.6	19.4	17.1	13.0	16.8	26.8	9.0	16.6	13.6	26.7	18.5	16.0	8.9
	CD (1%)	1.9	2.9	3.7	3.3	5.9	2.4	2.6	2.6	1.2	0.8	25.7	22.7	17.3	22.4	35.6	11.8	22.0	18.0	35.5	24.6	21.2	11.7

Table No. : 4 (Conti...)		Plant Height (cm)															Shelling %					
S. No.	Entry Name	NWPZ					PZ									All India	CWZ					
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE		AMBI	BANS	CHIN	GODH	UDAI	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7745	231	178	235	286	233	195	167	213	176	196	194	187	249	197	204	76	79	90	79	76	80
2	DKC 8205	226	170	229	283	228	204	173	212	180	191	205	186	255	200	201	78	79	85	83	77	80
3	DKC 8209	229	181	246	281	233	201	163	220	169	179	185	183	245	193	197	76	76	84	88	77	81
4	GGMH-114	219	176	213	282	223	181	177	206	171	184	180	189	243	191	197	76	77	87	75	76	78
5	GK 3207	244	220	252	307	254	211	194	224	183	193	220	207	280	214	216	77	69	89	81	73	78
6	HKH-371	235	165	215	293	228	202	185	225	174	200	204	193	262	205	208	77	77	85	89	74	80
7	HKH-372	238	208	231	299	243	204	183	220	191	196	202	202	268	209	214	77	73	81	81	75	78
8	HM 19203	238	186	228	297	237	206	177	205	180	191	186	196	250	199	207	76	78	79	89	74	80
9	HM 19305	218	176	202	284	223	187	166	217	174	177	185	193	250	193	196	77	80	85	84	77	80
10	HT 519015	212	187	227	286	227	198	153	196	171	166	174	173	260	186	196	76	79	86	81	76	79
11	IAHM 2016-38	210	165	219	259	213	159	153	199	144	189	159	165	224	173	182	77	76	88	86	73	80
12	IAHM2016-2	242	190	241	289	241	196	165	206	181	163	192	189	244	192	199	78	81	82	76	79	79
13	IIMWH 1901	215	188	231	272	226	174	161	195	163	190	170	182	242	185	192	79	73	86	85	74	79
14	IMHSB-19K-10	217	179	223	253	218	187	158	214	167	186	165	184	243	188	192	76	81	82	81	75	79
15	IMHSB-19K-11	226	195	250	288	240	193	176	222	177	190	189	174	250	197	204	79	79	88	75	77	79
16	IMHSB-19K-2	231	198	224	285	235	206	176	224	178	177	180	191	245	198	204	79	79	90	84	74	81
17	IMHSB-19K-3	241	219	231	296	246	202	186	213	186	200	203	200	261	206	213	76	73	85	80	74	78
18	IMHSB-19K-4	238	208	254	304	252	211	182	212	193	192	196	199	278	208	215	77	78	84	80	76	79
19	IMHSB-19K-5	230	192	236	277	233	204	172	211	180	190	182	178	246	196	201	77	81	84	83	74	79
20	IMHSB-19K-6	241	205	237	304	247	203	170	217	191	175	188	218	260	203	210	76	79	80	84	75	79
21	IMHSB-19K-7	253	217	232	283	245	189	185	209	193	207	202	197	277	207	210	76	76	83	84	72	78
22	IMHSB-19K-8	216	162	227	253	216	182	150	182	148	170	158	181	214	173	182	79	68	89	78	75	78
23	IMHSB-19K-9	234	198	221	284	234	193	159	216	172	198	200	185	253	197	202	77	74	79	81	76	78
24	IMHVS-101	234	196	225	281	235	206	183	224	198	193	187	195	260	206	209	77	80	86	75	77	79
25	JKMH 1481	239	213	234	295	247	199	170	230	186	190	189	204	247	202	208	78	81	88	84	79	82
26	KH 518	232	205	218	284	235	191	172	217	175	194	171	179	235	191	199	76	78	85	84	76	80
27	KSP-5391	240	196	217	279	234	208	177	218	193	170	185	177	250	197	204	78	80	87	80	73	80
28	MH 1941	209	205	210	256	218	177	161	208	152	185	191	181	258	189	191	75	80	83	84	73	79
29	MH 1945	215	180	193	261	213	187	152	207	156	198	173	176	204	181	185	78	78	89	80	74	80
30	MH 1948	228	202	227	282	235	200	165	214	171	203	187	196	229	196	201	79	77	86	77	78	79
31	NMH 4144	256	214	242	309	257	204	178	208	188	170	201	197	259	201	212	76	72	84	84	73	78
32	PM 19101 M	199	160	223	242	205	184	150	193	142	180	164	144	222	172	176	77	79	87	77	77	80
33	PM 19102 M	232	203	234	279	236	195	169	202	161	176	173	187	254	189	197	78	79	90	83	74	81
34	PM 19103 M	237	198	241	287	241	197	156	211	180	178	198	185	258	196	203	77	76	88	82	75	79
35	SVMH-1130	204	166	221	282	217	188	167	211	167	172	200	183	255	193	196	78	77	84	84	74	79
36	SYN-916248	230	199	255	290	243	196	165	219	176	156	184	187	239	190	202	76	76	85	79	75	78
37	SYN916540	213	170	206	272	215	192	157	205	169	169	174	174	233	185	192	78	81	90	80	74	81
38	SYN916701	237	194	228	293	238	199	178	229	178	183	199	187	262	203	206	77	68	77	89	75	77
39	TS 2609	238	206	257	295	249	207	184	222	186	187	189	195	251	203	211	76	77	85	85	78	80
40	BIO 9544 (C)	218	181	206	260	216	186	151	194	151	181	172	172	242	181	187	76	82	86	84	73	80
41	CMH 08-292 (C)	247	219	239	298	251	207	195	235	202	192	216	211	268	216	221	77	78	88	82	74	80
42	DHM 121 (C)	226	191	226	277	229	185	173	222	174	210	192	185	241	198	202	77	77	85	77	74	78
	L Mean	229.0	191.9	228.7	282.6	233.0	195.2	169.9	212.5	175.0	185.4	187.2	187.2	249.2	195.2	201.0	77.1	77.2	85.3	81.9	75.1	79.3
	CV (%)	4.1	9.5	5.4	3.5	5.6	4.8	6.1	5.4	4.2	6.7	7.3	6.7	6.2	6.0	5.9	1.7	5.1	4.3	3.8	0.0	3.6
	F (Prob)	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	15.1	29.8	20.1	16.2	11.2	15.2	16.9	18.6	12.0	20.2	22.2	20.4	25.1	7.1	4.3	2.1	6.5	5.9	5.1	0.0	2.0
	CD (1%)	20.1	39.6	26.8	21.5	14.7	20.2	22.4	24.7	16.0	26.8	29.5	27.1	33.3	9.3	5.7	2.8	8.6	7.9	6.8	0.0	2.7

Table No. : 4 (Conti...) **Shelling %**

S. No.	Entry Name	NEPZ						NWPZ					PZ									All India
		BHU	BHUB	DHOL	RANC	SABO	ZONE	IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7745	76	81	81	85	83	81	85	82	84	82	84	79	85	77	77	78	79	80	78	79	81
2	DKC 8205	81	84	84	87	78	82	80	81	86	84	83	80	85	78	79	80	84	83	81	81	82
3	DKC 8209	77	83	78	84	86	82	82	81	86	84	83	79	87	76	79	78	85	84	82	81	82
4	GGMH-114	75	82	83	82	84	81	82	81	87	83	83	78	85	77	79	78	82	83	79	80	81
5	GK 3207	81	84	82	87	84	84	83	81	86	84	84	80	83	81	80	82	85	82	84	82	82
6	HKH-371	79	84	83	85	82	82	82	82	86	83	84	80	85	77	79	77	85	83	76	81	81
7	HKH-372	74	82	75	86	82	80	83	81	81	80	81	79	83	77	77	78	82	80	76	79	79
8	HM 19203	73	81	76	83	81	79	84	82	81	78	82	80	84	80	78	76	84	78	78	80	80
9	HM 19305	74	83	81	86	82	81	83	82	86	85	84	79	84	76	78	76	83	84	80	80	81
10	HT 519015	79	84	84	85	84	83	88	82	85	84	84	80	87	75	78	76	81	82	84	81	81
11	IAHM 2016-38	80	84	83	87	87	84	81	81	86	79	82	80	88	79	79	84	85	72	81	81	82
12	IAHM2016-2	76	82	79	85	80	80	81	80	87	83	83	81	86	77	79	79	85	83	80	82	81
13	IIMWH 1901	82	83	85	84	87	84	85	81	83	82	82	80	87	79	80	82	86	81	80	82	82
14	IMHSB-19K-10	72	82	77	82	69	76	84	81	82	79	81	78	84	76	76	75	82	79	75	78	78
15	IMHSB-19K-11	82	84	84	84	86	84	86	83	86	88	86	81	87	77	79	88	83	82	81	82	83
16	IMHSB-19K-2	79	84	81	86	82	83	83	80	86	82	83	80	87	80	79	86	85	74	82	82	82
17	IMHSB-19K-3	79	83	89	87	88	85	83	82	85	83	84	79	86	80	80	80	84	73	81	80	82
18	IMHSB-19K-4	77	82	77	86	80	80	86	82	84	83	84	80	85	78	79	77	84	83	78	81	81
19	IMHSB-19K-5	75	83	80	85	85	82	84	81	85	83	83	81	87	77	78	79	84	82	81	81	81
20	IMHSB-19K-6	76	84	82	87	84	82	85	80	84	82	83	79	83	74	78	79	82	81	78	79	81
21	IMHSB-19K-7	72	83	79	85	78	80	85	82	81	78	81	79	82	77	78	75	82	79	78	79	79
22	IMHSB-19K-8	80	84	89	87	87	85	86	80	87	84	84	79	88	81	79	81	85	86	81	83	82
23	IMHSB-19K-9	73	83	78	84	77	79	85	83	81	78	82	79	82	77	78	75	84	80	79	79	79
24	IMHVS-101	79	82	80	83	82	81	85	81	86	82	83	80	88	79	79	87	84	83	81	82	81
25	JKMH 1481	75	82	77	85	87	81	80	79	86	83	82	80	86	78	79	81	85	83	84	82	82
26	KH 518	74	82	78	87	82	81	83	81	86	84	84	80	86	76	79	79	83	84	77	81	81
27	KSP-5391	82	84	82	86	86	84	84	81	86	87	84	81	89	75	80	81	84	83	82	82	82
28	MH 1941	76	81	88	84	80	82	81	81	83	79	81	79	85	79	79	77	84	73	81	80	80
29	MH 1945	79	82	84	84	84	83	81	82	86	85	84	81	85	77	80	81	83	83	80	81	82
30	MH 1948	78	84	79	88	91	84	82	81	86	84	83	80	84	81	80	83	85	82	81	82	82
31	NMH 4144	75	82	78	81	83	80	85	81	85	82	83	79	85	77	79	75	86	83	81	80	80
32	PM 19101 M	83	83	81	85	84	83	83	81	86	87	84	82	84	81	81	77	85	80	84	82	82
33	PM 19102 M	81	81	83	84	85	83	86	80	85	86	84	80	81	81	80	80	84	82	85	82	82
34	PM 19103 M	78	82	82	87	82	82	85	80	86	84	84	80	88	77	79	88	84	84	82	83	82
35	SVMH-1130	77	83	78	87	82	81	85	81	86	85	84	78	86	77	80	77	83	83	80	80	81
36	SYN-916248	75	82	79	87	84	81	84	83	86	85	85	78	86	77	79	76	84	80	79	80	81
37	SYN916540	80	84	78	84	87	83	83	81	86	87	85	81	87	78	79	81	85	84	81	82	82
38	SYN916701	73	82	77	84	84	80	84	81	86	80	82	80	81	78	77	78	85	81	78	80	80
39	TS 2609	77	84	77	83	85	81	81	82	85	82	82	79	81	76	76	76	84	83	75	79	80
40	BIO 9544 (C)	75	81	75	83	82	79	83	84	86	82	83	82	87	76	78	79	84	82	80	81	81
41	CMH 08-292 (C)	81	80	83	85	82	82	85	81	85	80	83	82	86	79	79	80	85	81	80	81	81
42	DHM 121 (C)	74	82	83	85	82	81	83	79	86	80	82	81	84	75	76	75	84	81	78	79	80
	L Mean	77.3	82.7	80.8	85.1	83.1	81.6	83.6	81.2	85.0	82.7	83.1	79.8	85.2	77.7	78.7	79.3	83.8	81.2	80.2	80.7	81.0
	CV (%)	1.9	1.3	3.2	1.8	0.0	1.9	4.0	2.0	0.8	2.0	2.4	1.3	1.9	3.1	1.5	2.8	1.8	0.0	2.6	2.1	2.5
	F (Prob)	0.0	0.0	0.0	0.1	0.0	0.0	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	2.4	1.7	4.2	2.6	0.0	1.2	5.5	2.6	1.1	2.6	1.6	1.6	2.7	3.9	1.9	3.7	2.4	0.0	3.4	0.9	0.7
	CD (1%)	3.2	2.3	5.5	3.5	0.0	1.5	7.3	3.4	1.4	3.5	2.1	2.2	3.5	5.2	2.6	4.9	3.2	0.0	4.5	1.2	0.9

Table No. : 5 Trial No. 582 (NIVT, Medium Maturity) NHZ

Yield Kg/ha

S. No.	Entry Name	NHZ														All India	
		BAJU		BARA		GOSS		IMPH		KANG		SRIN		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	AH1625	10232.8	10	9606.5	3	7134	6	13223.4	9	5660.4	9	7651.3	12	7848.2	10	7848.2	10
2	AH1634	9709.74	13	6761.6	10	8137.83	3	15597.1	4	4940.7	13	6027.9	21	6892.8	18	6892.8	18
3	AH4142	9604.95	14	8134.6	7	5933.19	12	13391.6	8	4699	15	8055	4	7453	16	7453	16
4	AH4167	12209.1	4	5788.4	15	3901.27	19	9608.46	13	5979.7	6	6222.6	20	8137.2	8	8137.2	8
5	AH8245 R	10541.7	9	5747.1	16	6018.2	10	13460.4	7	4677.5	16	8785.7	2	8001.6	9	8001.6	9
6	AH8452	11069.3	7	5874.9	14	5339.77	14	13015.6	10	4152	19	7834.6	10	7685.3	14	7685.3	14
7	DH323	7546.17	17	4308.4	19	7918.45	4	8502.2	17	5695.4	8	9425.4	1	7555.7	15	7555.7	15
8	DH324	8536.51	15	6054.9	12	6017.53	11	9445.92	14	4895.4	14	8053.1	5	7161.7	17	7161.7	17
9	DKC8205	12561.5	2	7197.3	8	11141.8	1	17613.5	3	5656.9	10	7756.8	11	8658.4	2	8658.4	2
10	DKC8209	12875.9	1	9648.3	2	6671.02	8	23151.3	1	6490	4	8094.6	3	9153.5	1	9153.5	1
11	HKH372	7471.47	18	5253.2	17	5904.1	13	8913.52	16	4355.3	18	7884.2	8	6570.3	19	6570.3	19
12	JKMH1481	5787.65	21	6032.5	13	3123.05	21	9108.75	15	3779	20	7244.8	14	5603.8	21	5603.8	21
13	KMH1842	7266.44	20	1390.9	21	4142.74	18	8271.08	18	9640.8	2	7604.5	13	8170.6	7	8170.6	7
14	KMH1871	8386.24	16	3326.7	20	4601.2	17	4027.26	20	9790	1	6731.2	17	8302.5	5	8302.5	5
15	LMH4119	10114.8	11	6465.1	11	7425.16	5	13561.9	6	5102.2	12	7919.5	7	7712.2	13	7712.2	13
16	LMH4219	12277.4	3	8626.7	5	6980.68	7	2117.3	21	6680.3	3	6437.1	19	8464.9	3	8464.9	3
17	LMH4319	11507.8	6	6964.3	9	4735.9	15	11020.2	12	4628.7	17	7155.1	15	7763.9	12	7763.9	12
18	LMH4419	12072.5	5	9733.4	1	6594.64	9	11287.2	11	6424.3	5	6486.9	18	8327.9	4	8327.9	4
19	BIO 9544 (C)	10842.4	8	8861	4	9416.22	2	20841	2	5908.7	7	7874.5	9	8208.6	6	8208.6	6
20	CMH08-292 (C)	9799.87	12	8484.1	6	3335.81	20	14827.8	5	5509	11	7990.6	6	7766.5	11	7766.5	11
21	DHM 121 (C)	7400.92	19	4719.3	18	4653.17	16	6782.28	19	3651.4	21	7003.6	16	6018.6	20	6018.6	20
	L Mean	9895.96	.	6618.1	.	6148.85	.	11798.5	.	5634.1	.	7535.2	.	7688.4	.	7688.4	.
	CV (%)	5.25	.	30.81	.	32.4	.	39.52	.	13.34	.	18.74	.	12.63	.	12.63	.
	F (Prob)	0	.	0	.	0	.	0	.	0	.	0.42	.	0	.	0	.
	CD (5%)	857.65	.	3364.5	.	3287.2	.	7695.09	.	1240	.	2329.8	.	906.21	.	906.21	.
	CD (1%)	1147.65	.	4502.2	.	4398.7	.	10297	.	1659.3	.	3117.6	.	1198	.	1198	.

Table No. : 5 (Conti...) Grain yeild (%) over BIO 9544																		Grain yeild (%) over CMH08-292					
S. No.	Entry Name	NHZ														All India		NHZ					
		BAJU		BARA		GOSS		IMPH		KANG		SRIN		ZONE				BAJU		BARA		GOSS	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH1625	-5.62	10	8.41	3	-24.24	6	-36.55	9	-4.2	9	-2.83	12	-4.39	10	-4.39	10	4.42	10	13.23	3	113.86	6
2	AH1634	-10.45	13	-23.69	10	-13.58	3	-25.16	4	-16.38	13	-23.45	21	-16.03	18	-16.03	18	-0.92	13	-20.3	10	143.95	3
3	AH4142	-11.41	14	-8.2	7	-36.99	12	-35.74	8	-20.47	15	2.29	4	-9.2	16	-9.2	16	-1.99	14	-4.12	7	77.86	12
4	AH4167	12.6	4	-34.68	15	-58.57	19	-53.9	13	1.2	6	-20.98	20	-0.87	8	-0.87	8	24.58	4	-31.77	15	16.95	19
5	AH8245 R	-2.77	9	-35.14	16	-36.09	10	-35.41	7	-20.84	16	11.57	2	-2.52	9	-2.52	9	7.57	9	-32.26	16	80.41	10
6	AH8452	2.09	7	-33.7	14	-43.29	14	-37.55	10	-29.73	19	-0.51	10	-6.37	14	-6.37	14	12.95	7	-30.75	14	60.07	14
7	DH323	-30.4	17	-51.38	19	-15.91	4	-59.2	17	-3.61	8	19.69	1	-7.95	15	-7.95	15	-23	17	-49.22	19	137.38	4
8	DH324	-21.27	15	-31.67	12	-36.09	11	-54.68	14	-17.15	14	2.27	5	-12.75	17	-12.75	17	-12.89	15	-28.63	12	80.39	11
9	DKC8205	15.86	2	-18.78	8	18.33	1	-15.49	3	-4.26	10	-1.49	11	5.48	2	5.48	2	28.18	2	-15.17	8	234.01	1
10	DKC8209	18.75	1	8.88	2	-29.15	8	11.09	1	9.84	4	2.79	3	11.51	1	11.51	1	31.39	1	13.72	2	99.98	8
11	HKH372	-31.09	18	-40.72	17	-37.3	13	-57.23	16	-26.29	18	0.12	8	-19.96	19	-19.96	19	-23.76	18	-38.08	17	76.99	13
12	JKMH1481	-46.62	21	-31.92	13	-66.83	21	-56.29	15	-36.04	20	-8	14	-31.73	21	-31.73	21	-40.94	21	-28.9	13	-6.38	21
13	KMH1842	-32.98	20	-84.3	21	-56	18	-60.31	18	63.16	2	-3.43	13	-0.46	7	-0.46	7	-25.85	20	-83.61	21	24.19	18
14	KMH1871	-22.65	16	-62.46	20	-51.14	17	-80.68	20	65.69	1	-14.52	17	1.14	5	1.14	5	-14.42	16	-60.79	20	37.93	17
15	LMH4119	-6.71	11	-27.04	11	-21.14	5	-34.93	6	-13.65	12	0.57	7	-6.05	13	-6.05	13	3.21	11	-23.8	11	122.59	5
16	LMH4219	13.23	3	-2.64	5	-25.87	7	-89.84	21	13.06	3	-18.25	19	3.12	3	3.12	3	25.28	3	1.68	5	109.26	7
17	LMH4319	6.14	6	-21.41	9	-49.7	15	-47.12	12	-21.66	17	-9.14	15	-5.42	12	-5.42	12	17.43	6	-17.91	9	41.97	15
18	LMH4419	11.35	5	9.85	1	-29.97	9	-45.84	11	8.73	5	-17.62	18	1.45	4	1.45	4	23.19	5	14.73	1	97.69	9
19	BIO 9544 (C)	0	8	0	4	0	2	0	2	0	7	0	9	0	6	0	6	10.64	8	4.44	4	182.28	2
20	CMH08-292	-9.62	12	-4.25	6	-64.57	20	-28.85	5	-6.77	11	1.47	6	-5.39	11	-5.39	11	0	12	0	6	0	20
21	DHM 121 (C)	-31.74	19	-46.74	18	-50.58	16	-67.46	19	-38.2	21	-11.06	16	-26.68	20	-26.68	20	-24.48	19	-44.37	18	39.49	16

Table No. : 5 (Conti..)

S. No.	Entry Name	Grain yeild (%) over CMH08-292										Grain yeild (%) over DHM 121															
		NHZ								All India		NHZ														All India	
		IMPH		KANG		SRIN		ZONE				BAJU		BARA		GOSS		IMPH		KANG		SRIN		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH1625	-10.82	9	2.75	9	-4.25	12	1.05	10	1.05	10	38.26	10	103.56	3	53.31	6	94.97	9	55.02	9	9.25	12	30.4	10	30.4	10
2	AH1634	5.19	4	-10.31	13	-24.56	21	-11.25	18	-11.25	18	31.2	13	43.27	10	74.89	3	130	4	35.31	13	-13.9	21	14.52	18	14.5	18
3	AH4142	-9.69	8	-14.7	15	0.81	4	-4.04	16	-4.04	16	29.78	14	72.37	7	27.51	12	97.45	8	28.69	15	15.01	4	23.83	16	23.8	16
4	AH4167	-35.2	13	8.55	6	-22.13	20	4.77	8	4.77	8	64.97	4	22.65	15	-16.16	19	41.67	13	63.77	6	-11.2	20	35.2	8	35.2	8
5	AH8245 R	-9.22	7	-15.09	16	9.95	2	3.03	9	3.03	9	42.44	9	21.78	16	29.34	10	98.46	7	28.1	16	25.44	2	32.95	9	33	9
6	AH8452	-12.22	10	-24.63	19	-1.95	10	-1.04	14	-1.04	14	49.57	7	24.49	14	14.76	14	91.91	10	13.71	19	11.87	10	27.69	14	27.7	14
7	DH323	-42.66	17	3.38	8	17.96	1	-2.71	15	-2.71	15	1.96	17	-8.71	19	70.17	4	25.36	17	55.98	8	34.58	1	25.54	15	25.5	15
8	DH324	-36.3	14	-11.14	14	0.78	5	-7.79	17	-7.79	17	15.34	15	28.3	12	29.32	11	39.27	14	34.07	14	14.98	5	18.99	17	19	17
9	DKC8205	18.79	3	2.69	10	-2.93	11	11.48	2	11.48	2	69.73	2	52.51	8	139.45	1	159.7	3	54.93	10	10.75	11	43.86	2	43.9	2
10	DKC8209	56.13	1	17.81	4	1.3	3	17.86	1	17.86	1	73.98	1	104.44	2	43.36	8	241.4	1	77.74	4	15.58	3	52.09	1	52.1	1
11	HKH372	-39.89	16	-20.94	18	-1.33	8	-15.4	19	-15.4	19	0.95	18	11.31	17	26.88	13	31.42	16	19.28	18	12.57	8	9.17	19	9.17	19
12	JKMH1481	-38.57	15	-31.4	20	-9.33	14	-27.85	21	-27.85	21	-21.8	21	27.83	13	-32.88	21	34.3	15	3.49	20	3.44	14	-6.89	21	-6.89	21
13	KMH1842	-44.22	18	75	2	-4.83	13	5.2	7	5.2	7	-1.82	20	-70.53	21	-10.97	18	21.95	18	164	2	8.58	13	35.75	7	35.8	7
14	KMH1871	-72.84	20	77.71	1	-15.76	17	6.9	5	6.9	5	13.31	16	-29.51	20	-1.12	17	-40.62	20	168.1	1	-3.89	17	37.95	5	38	5
15	LMH4119	-8.54	6	-7.38	12	-0.89	7	-0.7	13	-0.7	13	36.67	11	36.99	11	59.57	5	99.96	6	39.73	12	13.08	7	28.14	13	28.1	13
16	LMH4219	-85.72	21	21.26	3	-19.44	19	8.99	3	8.99	3	65.89	3	82.8	5	50.02	7	-68.78	21	82.95	3	-8.09	19	40.64	3	40.6	3
17	LMH4319	-25.68	12	-15.98	17	-10.46	15	-0.03	12	-0.03	12	55.49	6	47.57	9	1.78	15	62.48	12	26.77	17	2.16	15	29	12	29	12
18	LMH4419	-23.88	11	16.62	5	-18.82	18	7.23	4	7.23	4	63.12	5	106.25	1	41.72	9	66.42	11	75.94	5	-7.38	18	38.37	4	38.4	4
19	BIO 9544 (C)	40.55	2	7.26	7	-1.45	9	5.69	6	5.69	6	46.5	8	87.76	4	102.36	2	207.3	2	61.82	7	12.44	9	36.39	6	36.4	6
20	CMH08-292	0	5	0	11	0	6	0	11	0	11	32.41	12	79.77	6	-28.31	20	118.6	5	50.87	11	14.09	6	29.04	11	29	11
21	DHM 121 (C)	-54.26	19	-33.72	21	-12.35	16	-22.5	20	-22.5	20	0	19	0	18	0	16	0	19	0	21	0	16	0	20	0	20

Table No. : 5 (Conti...)		Nunber of Cobs								Ear Height (cm)							
S. No.	Entry Name	NHZ							All India	NHZ							All India
		BAJU	BARA	GOSS	IMPH	KANG	SRIN	ZONE		BAJU	BARA	GOSS	IMPH	KANG	SRIN	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH1625	22	29	27	20	36	39	29	29	123	89	69	140	122	107	108	108
2	AH1634	21	25	24	19	33	39	27	27	145	84	76	148	116	114	114	114
3	AH4142	19	29	16	20	34	38	26	26	117	87	55	147	113	112	105	105
4	AH4167	23	26	17	19	35	38	26	26	148	95	66	148	114	108	113	113
5	AH8245 R	23	26	19	23	33	40	27	27	140	107	68	118	116	123	112	112
6	AH8452	21	14	10	12	33	38	21	21	140	95	81	160	118	115	118	118
7	DH323	22	18	27	16	35	38	26	26	98	69	48	128	107	106	93	93
8	DH324	21	25	18	17	31	40	26	26	107	71	52	135	106	122	99	99
9	DKC8205	26	24	32	25	33	40	30	30	123	87	64	150	110	112	108	108
10	DKC8209	22	30	29	26	36	40	31	31	113	80	57	140	113	113	103	103
11	HKH372	19	22	18	20	32	38	25	25	120	98	61	146	114	122	110	110
12	JKMH1481	15	14	6	13	32	39	20	20	107	82	52	138	106	109	99	99
13	KMH1842	19	7	25	18	36	38	24	24	100	66	49	128	103	117	94	94
14	KMH1871	23	19	20	9	35	40	24	24	95	86	59	131	103	122	99	99
15	LMH4119	21	28	26	22	34	39	28	28	97	79	58	124	104	121	97	97
16	LMH4219	24	26	24	5	34	40	26	26	103	89	60	132	107	110	100	100
17	LMH4319	23	29	16	20	33	37	26	26	113	91	55	135	107	129	105	105
18	LMH4419	24	27	24	21	35	39	28	28	132	102	81	160	121	106	117	117
19	BIO 9544 (C)	24	29	25	26	36	39	30	30	132	93	61	147	114	120	111	111
20	CMH08-292 (C)	17	22	27	24	36	38	27	27	145	110	79	161	123	111	122	122
21	DHM 121 (C)	20	13	12	9	33	39	21	21	115	89	51	141	107	122	104	104
	L Mean	21.3	23.0	21.1	18.3	34.1	38.8	26.1	26.1	119.7	88.0	61.9	140.8	111.6	115.3	106.2	106.2
	CV (%)	6.7	20.2	28.5	26.1	7.9	4.1	15.0	15.0	8.4	12.1	9.8	9.9	3.8	7.8	9.0	9.0
	F (Prob)	0.0	0.0	0.0	0.0	0.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
	CD (5%)	2.3	7.7	9.9	7.9	4.5	2.6	2.6	2.6	16.6	17.6	10.0	23.0	7.1	14.9	6.3	6.3
	CD (1%)	3.1	10.2	13.3	10.6	6.0	3.5	3.4	3.4	22.3	23.5	13.4	30.8	9.4	20.0	8.3	8.3

Table No. : 5 (Conti...)

S. No.	Entry Name	Final Plant Stand (000/ha)								Moisture (%)							
		NHZ							All India	NHZ							All India
		BAJU	BARA	GOSS	IMPH	KANG	SRIN	ZONE		BAJU	BARA	GOSS	IMPH	KANG	SRIN	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH1625	58	124	124	114	78	58	93	93	24	31	20	12	32	19	23	23
2	AH1634	56	111	108	117	69	58	87	87	25	35	22	20	32	19	25	25
3	AH4142	50	125	71	123	72	59	83	83	24	32	21	11	34	18	23	23
4	AH4167	62	114	74	120	75	59	84	84	23	33	21	16	33	18	24	24
5	AH8245 R	61	119	81	127	68	57	86	86	24	34	21	18	34	18	25	25
6	AH8452	55	63	40	58	67	55	56	56	24	34	21	11	36	19	24	24
7	DH323	59	121	128	129	74	55	94	94	25	35	22	13	34	19	25	25
8	DH324	55	107	96	116	65	57	82	82	25	31	20	12	30	19	23	23
9	DKC8205	64	101	138	130	68	61	94	94	24	32	20	9	34	19	23	23
10	DKC8209	59	131	131	127	75	59	97	97	24	33	20	12	32	18	23	23
11	HKH372	49	99	76	123	67	62	79	79	24	33	20	15	33	19	24	24
12	JKMH1481	41	61	26	58	64	57	51	51	25	34	22	13	35	19	25	25
13	KMH1842	51	42	118	114	76	59	77	77	24	30	19	17	28	18	23	23
14	KMH1871	62	101	96	126	73	57	86	86	23	28	19	17	27	19	22	22
15	LMH4119	57	118	126	124	70	57	92	92	24	34	20	12	32	19	23	23
16	LMH4219	62	117	114	98	72	58	87	87	23	31	20	19	33	18	24	24
17	LMH4319	63	121	69	117	69	58	83	83	23	34	20	14	35	20	24	24
18	LMH4419	65	115	106	117	75	57	89	89	24	33	20	15	31	19	24	24
19	BIO 9544 (C)	61	121	108	132	74	58	92	92	25	35	20	13	34	19	24	24
20	CMH08-292 (C)	47	97	119	129	74	56	87	87	24	32	21	12	32	19	24	24
21	DHM 121 (C)	53	56	51	79	67	56	60	60	23	34	21	17	33	20	25	25
	L Mean	56.7	103.0	95.3	113.2	71.0	57.7	82.8	82.8	24.0	32.7	20.4	14.2	32.6	18.9	23.8	23.8
	CV (%)	6.3	18.9	29.2	11.6	8.0	5.5	18.3	18.3	2.6	5.9	4.7	26.4	3.3	6.5	8.0	8.0
	F (Prob)	0.0	0.0	0.0	0.0	0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.8	0.0	0.0
	CD (5%)	5.9	32.2	45.9	21.6	9.4	5.3	10.0	10.0	1.0	3.2	1.6	6.2	1.8	2.0	1.3	1.3
	CD (1%)	7.9	43.0	61.5	28.9	12.6	7.0	13.1	13.1	1.4	4.2	2.1	8.3	2.4	2.7	1.6	1.6

Table No. : 5 (Conti...)

S. No.	Entry Name	Days to 75 % Dry husk								Days to 50 % Anthesis							
		NHZ							All India	NHZ							All India
		BAJU	BARA	GOSS	IMPH	KANG	SRIN	ZONE		BAJU	BARA	GOSS	IMPH	KANG	SRIN	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH1625	98	89	103	87	97	135	102	102	65	60	48	54	57	91	62	62
2	AH1634	99	96	102	88	98	138	104	104	64	61	48	56	58	90	63	63
3	AH4142	98	99	102	90	98	137	104	104	68	60	49	55	58	87	63	63
4	AH4167	98	95	98	89	95	133	102	102	67	60	47	56	56	85	62	62
5	AH8245 R	98	99	100	90	101	136	104	104	68	62	48	56	60	85	63	63
6	AH8452	98	99	102	91	99	140	105	105	67	61	48	57	59	88	63	63
7	DH323	99	101	106	94	101	136	106	106	72	65	49	57	62	92	66	66
8	DH324	99	93	101	90	97	141	103	103	66	60	50	56	58	95	64	64
9	DKC8205	99	98	101	91	97	139	104	104	65	60	47	54	57	94	63	63
10	DKC8209	98	100	104	93	99	136	105	105	64	59	49	56	60	83	62	62
11	HKH372	99	99	103	94	100	139	105	105	66	61	49	57	60	92	64	64
12	JKMH1481	99	101	102	94	102	129	105	105	68	63	46	58	62	85	64	64
13	KMH1842	97	82	100	84	89	139	99	99	61	49	48	50	50	92	58	58
14	KMH1871	96	82	106	86	89	140	100	100	57	49	51	50	51	89	58	58
15	LMH4119	98	97	101	91	95	139	104	104	62	59	47	55	56	88	61	61
16	LMH4219	98	93	99	92	96	135	102	102	63	59	46	56	56	92	62	62
17	LMH4319	98	95	102	93	101	139	105	105	63	60	47	56	59	92	63	63
18	LMH4419	99	94	101	93	97	142	104	104	65	61	48	55	58	93	63	63
19	BIO 9544 (C)	99	103	101	94	99	140	106	106	70	62	48	56	60	88	64	64
20	CMH08-292 (C)	97	93	98	88	95	134	101	101	63	60	47	55	57	85	61	61
21	DHM 121 (C)	99	100	105	95	99	137	106	106	70	62	50	57	59	88	65	65
	L Mean	98.2	95.7	101.8	90.9	97.5	137.4	103.6	103.6	65.5	59.7	48.1	55.4	57.8	89.2	62.6	62.6
	CV (%)	0.7	3.9	3.1	2.4	1.6	3.1	2.8	2.8	2.1	2.5	4.3	2.6	2.3	6.5	4.4	4.4
	F (Prob)	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.0	0.0
	CD (5%)	1.1	6.1	5.2	3.6	2.5	7.0	1.9	1.9	2.2	2.4	3.4	2.4	2.2	9.5	1.8	1.8
	CD (1%)	1.5	8.2	7.0	4.8	3.4	9.4	2.5	2.5	3.0	3.3	4.5	3.2	2.9	12.7	2.4	2.4

Table No. : 5 (Conti...)

S. No.	Entry Name	Days to 50 % Silking								Plant Height (cm)							
		NHZ							All India	NHZ							All India
		BAJU	BARA	GOSS	IMPH	KANG	SRIN	ZONE		BAJU	BARA	GOSS	IMPH	KANG	SRIN	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH1625	68	63	52	56	61	94	66	66	248	181	199	229	242	229	221	221
2	AH1634	66	65	53	57	61	94	66	66	258	171	201	249	228	206	219	219
3	AH4142	70	64	53	57	62	91	66	66	223	174	176	235	223	215	208	208
4	AH4167	69	64	50	57	59	88	65	65	240	165	163	237	228	215	208	208
5	AH8245 R	70	67	52	58	64	89	67	67	253	187	191	223	232	223	218	218
6	AH8452	69	65	52	59	63	92	67	67	252	175	207	241	234	219	221	221
7	DH323	74	71	54	59	66	96	70	70	202	149	163	239	214	227	199	199
8	DH324	69	63	53	58	62	98	67	67	228	164	180	242	213	227	209	209
9	DKC8205	67	62	50	56	60	98	66	66	240	176	185	239	219	220	213	213
10	DKC8209	66	63	52	58	63	88	65	65	230	171	178	233	227	212	208	208
11	HKH372	68	65	53	59	64	95	67	67	243	205	202	238	229	217	222	222
12	JKMH1481	71	67	50	60	66	88	67	67	230	175	182	243	211	218	210	210
13	KMH1842	63	52	51	52	53	95	61	61	213	161	178	245	205	222	204	204
14	KMH1871	59	52	55	51	54	93	61	61	212	181	175	244	206	207	204	204
15	LMH4119	66	64	51	58	59	92	65	65	202	162	184	261	207	227	207	207
16	LMH4219	66	63	50	58	60	95	65	65	223	185	198	241	215	219	214	214
17	LMH4319	66	65	51	58	64	96	67	67	223	178	171	239	216	225	209	209
18	LMH4419	67	64	51	57	61	97	66	66	242	196	205	230	241	209	220	220
19	BIO 9544 (C)	72	66	51	58	63	91	67	67	222	185	181	229	229	219	211	211
20	CMH08-292 (C)	65	62	50	57	60	88	64	64	265	201	200	241	243	203	226	226
21	DHM 121 (C)	72	67	54	59	63	92	68	68	223	183	178	236	213	222	209	209
	L Mean	67.7	63.5	51.8	57.2	61.4	92.9	65.7	65.7	232.1	177.3	185.5	238.8	222.8	218.1	212.4	212.4
	CV (%)	1.9	3.1	4.5	2.7	2.4	6.2	4.3	4.3	4.4	9.2	7.2	5.4	3.7	6.9	6.1	6.1
	F (Prob)	0.0	0.0	0.2	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.8	0.0	0.0
	CD (5%)	2.1	3.2	3.8	2.6	2.4	9.4	1.9	1.9	17.0	26.9	22.0	21.2	13.5	25.0	8.5	8.5
	CD (1%)	2.8	4.3	5.1	3.4	3.2	12.6	2.5	2.5	22.8	36.0	29.5	28.4	18.0	33.4	11.2	11.2

Table No. : 5 (Conti...)

S. No.	Entry Name	Shelling (%)								Initial Plant Stand							
		NHZ							All India	NHZ							All India
		BAJU	BARA	GOSS	IMPH	KANG	SRIN	ZONE		BAJU	BARA	GOSS	IMPH	KANG	SRIN	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH1625	83	76	70	79	75	79	77	77	23	31	32	30	38	37	32	32
2	AH1634	81	71	66	80	76	80	76	76	20	28	27	29	36	38	30	30
3	AH4142	82	74	72	78	75	80	77	77	21	31	18	29	36	40	31	31
4	AH4167	85	80	66	81	77	79	78	78	23	29	18	28	38	39	31	31
5	AH8245 R	80	69	59	68	75	80	72	72	24	31	21	30	34	38	31	31
6	AH8452	81	72	68	75	75	79	75	75	21	15	10	13	33	38	24	24
7	DH323	81	71	66	75	76	79	75	75	23	29	27	30	38	38	32	32
8	DH324	83	75	66	78	79	80	77	77	19	24	30	30	37	38	29	29
9	DKC8205	87	75	75	75	80	80	78	78	22	30	33	30	37	37	31	31
10	DKC8209	85	76	71	80	78	79	78	78	21	31	28	30	34	39	31	31
11	HKH372	77	77	61	74	78	80	74	74	20	13	13	20	33	37	25	25
12	JKMH1481	82	77	61	74	77	79	75	75	24	26	35	30	34	39	30	30
13	KMH1842	83	69	63	81	81	79	76	76	23	32	34	29	37	39	32	32
14	KMH1871	84	70	62	77	82	79	76	76	19	29	19	30	34	39	30	30
15	LMH4119	86	76	68	80	79	79	78	78	15	15	7	15	33	38	23	23
16	LMH4219	86	72	64	73	79	80	76	76	20	30	31	29	39	40	31	31
17	LMH4319	82	71	58	77	77	79	74	74	23	30	25	30	37	36	31	31
18	LMH4419	83	75	65	81	77	81	77	77	22	30	33	29	35	37	31	31
19	BIO 9544 (C)	84	79	65	79	78	80	78	78	23	31	30	29	36	39	32	32
20	CMH08-292 (C)	85	77	69	78	78	80	78	78	23	30	18	30	34	38	31	31
21	DHM 121 (C)	81	71	57	70	75	79	72	72	24	28	27	29	37	37	31	31
	L Mean	82.9	74.0	65.3	76.8	77.4	79.5	76.0	76.0	21.5	27.3	24.6	27.6	35.7	38.2	30.0	30.0
	CV (%)	0.0	6.9	11.9	7.6	0.9	1.0	5.9	5.9	6.1	16.3	30.7	7.9	7.7	3.1	8.8	8.8
	F (Prob)	0.0	0.3	0.4	0.4	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0
	CD (5%)	0.0	8.4	12.8	9.6	1.1	1.3	2.9	2.9	2.2	7.3	12.5	3.6	4.5	2.0	1.9	1.9
	CD (1%)	0.0	11.3	17.1	12.9	1.5	1.8	3.9	3.9	2.9	9.8	16.7	4.8	6.1	2.6	2.5	2.5

Table No. : 6 Trial No. : 680 (NIVT, Late Maturity) **Yeild Kg/ha** **(Conti...)**

S. No.	Entry Name	CWZ												NEPZ													
		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB		DHOL		RANC		SABO		ZONE	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	ADV7713	11733	3	3121	47	10985	8	7116	20	3871	53	8926	15	10416	4	6962	32	7165	12	7907	31	8634	6	6920	16	8002	12
2	AH 8072	8112	40	4739	2	9115	27	7402	17	5506	41	7588	39	9243	17	8120	12	6659	33	6872	43	7155	39	6073	28	7380	30
3	AH 8753	7903	41	3833	26	7268	46	6402	32	6348	31	7091	42	7675	37	7254	24	5917	46	6855	45	7010	42	6190	26	6777	40
4	AH1645	8929	33	3961	23	8831	30	8184	11	7562	18	8460	26	9798	13	8693	7	7208	10	8256	25	6956	43	5835	37	7744	19
5	AH4139	7219	49	2874	52	5083	55	4794	54	5507	40	5942	50	6262	48	5600	58	5337	55	5469	54	6096	55	4530	52	5746	54
6	AH4272	6834	54	3525	39	8415	36	4720	55	5596	39	6921	46	7364	40	6522	41	5902	47	7288	37	7327	37	6065	29	6798	39
7	AH5158	9019	30	4524	9	8580	33	6638	29	6369	29	7865	38	8955	21	6359	43	5361	54	7339	36	7681	26	6674	18	7148	34
8	BH 417202	8235	39	3612	35	8156	40	8141	12	7878	12	8115	35	10503	3	8794	6	6904	23	10924	1	7787	22	7291	11	8722	2
9	BRMH-17068	9772	16	4283	16	6576	48	6249	35	8250	7	8182	34	6125	52	5702	57	6098	45	8110	27	5819	57	6039	31	6187	50
10	CMH-15-006	12998	1	2700	56	2179	59	5620	46	1579	60	5624	52	8052	31	6230	46	5172	57	4032	59	6553	52	4912	48	5768	53
11	CMH-15-008	3764	60	2792	54	1902	60	5521	47	2539	57	2867	60	5025	57	6010	53	5622	53	3597	60	6665	49	3079	60	4963	60
12	CP 555	11204	5	3765	29	10768	10	7654	14	6458	28	9557	6	10093	7	6982	31	7225	8	8894	12	6628	50	5876	36	7552	25
13	CP 802	9646	19	4656	5	7804	42	4939	51	7152	22	7991	37	6854	45	6119	50	5857	48	8155	26	7080	40	5899	34	6511	44
14	DKC 9207	10189	11	4669	3	10909	9	4892	52	8181	8	9819	5	9542	14	6368	42	7040	17	9674	7	7643	27	7104	13	8043	8
15	GH16352	6851	53	3659	33	7369	45	9014	4	6036	35	6792	47	7364	39	8103	13	6407	40	6144	51	6779	46	5344	42	6591	43
16	GK 3218	9793	15	2640	58	9172	24	6552	30	7624	16	8973	14	9837	11	6188	48	6541	38	7145	39	7411	34	6284	24	7190	33
17	HMM 1018	4905	58	4138	19	3843	58	6755	27	3392	56	4173	59	4478	60	5854	55	4859	58	5372	55	6320	53	4557	51	5183	59
18	HT 519074	9085	28	4633	6	8829	31	7074	21	8314	6	8590	21	8297	28	8816	4	6940	21	10866	3	8635	5	7662	4	8453	5
19	IM12723	12120	2	3264	43	12340	1	8370	8	7570	17	10398	2	9141	20	8598	8	7217	9	9637	8	7531	31	5624	41	7868	15
20	IMHSB-19K-12	6906	51	3527	38	6340	50	7035	22	3520	54	5613	53	8107	30	6296	45	6153	43	6632	47	6606	51	4751	50	6468	45
21	IMHSB-19K-13	7510	45	4236	18	6688	47	8506	7	5696	38	6600	48	6674	46	6084	51	5639	52	6435	49	7739	24	5060	46	6386	49
22	IMHSB-19K-14	6737	55	2661	57	6214	51	6110	40	5276	47	5910	51	7215	41	6803	33	6892	24	7236	38	8160	13	3785	56	6661	42
23	IMHVS-102	7303	46	3135	45	8398	37	9309	2	4757	50	6979	44	7602	38	7031	30	6621	36	6713	46	7376	35	6676	17	6912	37
24	JH 17011	10176	12	4279	17	10032	17	6056	41	5366	44	8619	19	8808	22	6661	35	7067	16	8516	19	7596	29	6274	25	7485	27
25	JH 18056	7885	42	5666	1	9136	25	8262	9	8478	4	8288	32	9221	18	9690	1	7074	15	7042	41	7158	38	5071	45	7388	29
26	JH 18057	8348	37	3608	36	9120	26	6126	38	7867	13	8504	24	7724	36	9203	3	7586	3	8508	20	6879	45	6033	32	7651	21
27	JH 18087	8942	31	4384	14	9765	20	9422	1	6887	24	8611	20	9936	10	7816	15	6602	37	8031	29	7754	23	7630	5	8011	11
28	JH 18088	9404	22	4662	4	11070	7	6673	28	8037	9	9420	8	10208	6	8190	11	7196	11	9699	6	9092	3	7485	7	8784	1
29	JH 18091	10317	8	4476	10	9007	28	8914	5	7515	19	8977	13	8638	23	7469	18	6830	28	8879	13	7858	20	5829	38	7613	22
30	KH 2193	9381	23	4410	12	8189	39	5953	42	8644	3	8784	17	6197	49	6726	34	5721	51	6864	44	6771	47	6389	23	6445	47
31	KH 5146	9928	14	3757	30	10423	13	3736	59	5183	49	8504	25	6877	44	9593	2	6390	41	7452	34	6298	54	6064	30	7082	35
32	KMH-8322	10198	10	2896	50	9176	23	6958	24	7857	14	9204	9	11028	2	8505	9	6765	31	8710	17	8354	8	7120	12	8555	4

Trial No.: 680 (NIVT, Late Maturity) Yeild Kg/ha (Conti...)

S. No.	Entry Name	CWZ												NEPZ											
		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB		DHOL		RANC		SABO		ZONE	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
33	KMH-8333	9147	27	4537	8	12077	4	5946	43	6207	33	9073	12	10310	5	7318	22	6838	27	7941	30	5683	58	6114	27	7350	31
34	MM2424	9724	17	3323	41	7598	44	9088	3	7990	10	8299	31	9396	15	7439	20	6118	44	8785	15	7891	18	7406	9	7823	16
35	NMH 4313	9444	21	3963	22	12278	2	7001	23	8330	5	9949	4	9199	19	8815	5	7332	6	9425	10	6907	44	7322	10	8109	7
36	PM 19104L	10056	13	2946	49	8537	35	5904	44	7969	11	8867	16	7809	35	7441	19	7083	14	8402	21	9323	2	5328	43	7565	24
37	PM 19105 L	10236	9	3559	37	10652	11	6132	36	6356	30	9136	11	7028	43	7289	23	6819	29	7824	32	8546	7	7447	8	7536	26
38	PM 19106 L	9321	25	4409	13	10331	15	4249	58	6804	25	8569	23	6356	47	7796	16	7505	4	8299	24	8073	15	5202	44	7230	32
39	PM 19107 L	11306	4	4085	20	12176	3	6506	31	7794	15	10557	1	9971	9	7371	21	6753	32	10923	2	8316	10	8316	2	8637	3
40	PM 19108 L	10559	6	3807	27	10427	12	5889	45	7153	21	9478	7	8482	26	6359	44	6962	20	9725	4	8209	12	6991	14	7761	18
41	PM 19109 L	9682	18	1447	60	11966	5	8780	6	8857	2	10123	3	7854	34	6651	36	7014	19	9408	11	7611	28	6604	19	7483	28
42	PM 19110 L	9229	26	3127	46	8255	38	7467	16	6921	23	8093	36	9807	12	7184	26	5796	49	8056	28	8262	11	6480	22	7593	23
43	PM 19111 L	8748	34	3880	25	9400	22	6332	33	6249	32	8239	33	5393	56	6081	52	6654	34	7416	35	8904	4	3898	55	6410	48
44	QMH-1604	7245	47	2738	55	6200	52	4562	56	4719	51	6102	49	5752	55	4727	60	5269	56	6452	48	5557	60	4946	47	5512	56
45	QMH-16101	6650	56	2793	53	4809	56	4506	57	4638	52	5197	57	6051	53	6595	38	4677	59	5195	56	7595	30	3258	59	5470	57
46	QMH-1617	7759	43	3695	31	8982	29	4892	53	5317	45	7357	41	7142	42	6209	47	5754	50	8856	14	8332	9	6487	21	7041	36
47	QMH-1697	7231	48	3988	21	6026	53	7214	19	2484	58	5338	56	4815	59	5790	56	4086	60	6079	52	7531	32	4075	54	5365	58
48	Rasi 6597	10336	7	3117	48	8629	32	7744	13	7267	20	8784	18	7878	33	6524	40	6838	26	7066	40	7825	21	10365	1	7911	13
49	Rasi 70574	9369	24	2435	59	9903	19	7604	15	5817	37	8428	28	7881	32	7092	28	6925	22	6360	50	7430	33	4526	53	6774	41
50	SBMH 1817	7583	44	3223	44	7893	41	6876	25	5381	43	7051	43	8162	29	7050	29	7024	18	4402	58	8116	14	5665	39	6799	38
51	SVMH 1627	4447	59	2890	51	4677	57	5297	48	5412	42	4905	58	6185	50	6551	39	6232	42	8627	18	5583	59	3736	57	6140	51
52	SYN916801	9027	29	4411	11	10129	16	6808	26	6732	26	8576	22	12054	1	5951	54	7480	5	8367	22	7880	19	6583	20	8127	6
53	TMMH 853	6856	52	3661	32	8553	34	5194	50	5312	46	6947	45	6132	51	7092	27	6489	39	6938	42	7042	41	5660	40	6460	46
54	VNR37650	8448	36	3798	28	5775	54	5225	49	1808	59	5420	55	5775	54	5580	59	7614	2	5987	53	5869	56	4850	49	5904	52
55	VNR4343	8620	35	3473	40	7638	43	6120	39	6121	34	7412	40	8402	27	8083	14	7261	7	8774	16	7954	17	7604	6	8014	10
56	BIO 9682 (C)	7079	50	3269	42	10360	14	6130	37	9924	1	9141	10	10086	8	6148	49	6852	25	9703	5	7697	25	5877	35	7680	20
57	CMH 08-282 (C)	8242	38	4542	7	11415	6	3540	60	5927	36	8306	29	8609	24	7769	17	7622	1	9606	9	7964	16	5911	33	7891	14
58	CMH 08-287 (C)	8941	32	4321	15	9517	21	8202	10	6585	27	8444	27	9326	16	8223	10	7097	13	7809	33	7364	36	6977	15	7791	17
59	NK6240 (C)	9571	20	3642	34	9978	18	6278	34	5212	48	8299	30	8512	25	6623	37	6809	30	8323	23	9402	1	7672	3	8034	9
60	CMH 08-292 (F)	6234	57	3940	24	6414	49	7323	18	3506	55	5462	54	4866	58	7245	25	6624	35	5118	57	6676	48	3455	58	5726	55
	L Mean	8707.3	.	3701.7	.	8537.9	.	6598.4	.	6226.8	.	7824.0	.	8041.6	.	7105.5	.	6524.9	.	7718.7	.	7448.2	.	5981.3	.	7118.4	.
	CV (%)	12.0	.	28.5	.	13.3	.	32.2	.	15.1	.	13.4	.	16.7	.	16.7	.	11.1	.	17.1	.	14.1	.	17.6	.	16.0	.
	F (Prob)	0.0	.	0.1	.	0.0	.	0.2	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.1	.	0.0	.	0.0	.
	CD (5%)	1691.7	.	1706.0	.	1842.4	.	3443.0	.	1520.7	.	979.7	.	2179.5	.	1925.7	.	1175.6	.	2142.2	.	1716.9	.	1704.4	.	785.1	.
	CD (1%)	2238.6	.	2257.5	.	2438.0	.	4556.0	.	2012.3	.	1290.5	.	2884.0	.	2548.2	.	1555.6	.	2834.7	.	2289.6	.	2255.4	.	1033.0	.

Table No. : 6 (Conti...) **Yeild Kg/ha**

S. No.	Entry Name	NWPZ										PZ																All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	ADV7713	11216	9	7868	59	10024	7	11134	35	9698	30	10553	12	11098	16	9639	51	5674	43	5683	38	7641	16	9156	15	12192	43	9062	28	8821	20
2	AH 8072	10191	23	8073	51	8389	25	12664	10	9731	27	9762	37	7058	51	10851	31	5448	46	6337	17	7490	19	8796	28	13470	24	8729	37	8305	36
3	AH 8753	7653	51	9266	31	8113	33	10752	41	9305	37	8912	49	9017	35	9080	57	6248	30	5942	28	6468	43	7859	42	10801	53	7944	49	7670	45
4	AH1645	10230	22	9463	25	7787	38	10584	46	9380	36	8598	53	10526	20	10979	30	6697	21	5725	37	6841	34	8485	33	12773	38	8811	34	8518	34
5	AH4139	6864	54	7703	60	8807	20	11249	33	9166	39	8694	52	5883	58	10039	39	5744	42	3805	59	5915	51	6432	52	12899	33	7354	53	6934	52
6	AH4272	10148	24	8936	38	7063	42	11531	29	9133	40	10520	15	8841	39	10019	41	4560	55	4864	54	6813	37	8838	24	12017	46	8162	47	7710	44
7	AH5158	9133	34	9069	33	8840	17	11958	24	9720	28	10774	8	8842	38	9613	52	6084	33	4888	53	7855	11	7574	45	12988	31	8538	41	8208	38
8	BH 417202	12249	3	10978	5	10499	5	12173	18	11269	3	10192	28	8521	44	11257	22	7959	3	5508	44	7172	27	8654	30	13814	19	9183	24	9197	10
9	BRMH-17068	7356	52	8628	41	6521	48	10881	39	8714	47	10273	24	9364	33	8817	58	6067	35	5832	32	6964	31	8222	36	13979	14	8696	38	7866	42
10	CMH-15-006	2077	60	7914	57	1984	60	3197	59	4498	60	6419	60	2580	60	11853	13	2373	59	4537	56	3831	60	3985	59	8997	58	5578	59	5474	59
11	CMH-15-008	5216	58	8429	45	3409	59	1796	60	4644	59	7492	59	2995	59	9679	49	1281	60	3457	60	4208	59	3816	60	8064	60	5127	60	4661	60
12	CP 555	11489	5	9350	29	8202	31	12125	19	10062	22	10451	19	9545	31	11561	16	6319	28	6204	21	8773	1	9617	7	13206	27	9613	9	9051	12
13	CP 802	8334	45	7952	56	8111	34	10222	48	8575	49	11244	4	9095	34	10250	36	6826	17	6171	22	7647	15	6824	48	12337	41	8762	36	7949	40
14	DKC 9207	8923	39	10124	13	8966	16	13299	2	10893	6	10225	26	11071	17	9933	43	6415	26	6707	5	6979	30	9408	10	12797	37	9274	20	9229	9
15	GH16352	8630	41	8982	36	6960	46	10708	44	8978	41	8995	45	8654	41	7897	60	5896	39	6443	16	6678	39	7121	47	10993	52	7889	51	7494	48
16	GK 3218	10416	18	8526	42	7795	37	12645	11	9608	32	10059	30	9737	29	12164	10	5611	44	6559	11	6854	33	9130	16	13159	29	9204	22	8627	27
17	HMM 1018	6833	55	8198	49	4024	57	8165	57	6710	58	7545	58	6450	56	9239	55	2730	58	4341	57	5575	55	5634	58	8077	59	6161	58	5652	58
18	HT 519074	9015	38	8296	48	8163	32	13166	4	9826	26	9580	41	10865	18	9866	45	6941	16	6685	7	7953	6	8796	27	14005	13	9406	17	9066	11
19	IM12723	13650	1	9527	23	8267	28	13926	1	10365	15	13066	1	12075	8	11250	23	7791	4	7686	1	7206	24	11137	1	12584	40	10227	2	9572	2
20	IMHSB-19K-12	8895	40	7993	54	6980	45	11639	27	8952	42	10277	23	6484	55	10095	38	5812	41	5790	34	6831	35	8277	35	11958	47	8261	45	7429	49
21	IMHSB-19K-13	7788	50	9438	26	9207	12	10969	37	9706	29	10217	27	9739	28	10496	34	4464	56	5988	27	5838	52	7730	43	11322	50	8167	46	7634	46
22	IMHSB-19K-14	8098	47	9925	17	6816	47	8942	55	8555	50	9602	40	7198	50	9691	48	5421	48	3982	58	7440	21	5637	57	12066	45	7713	52	7258	50
23	IMHVS-102	8101	46	9431	27	7547	39	9276	52	8791	46	11121	5	8951	36	12018	11	5033	50	6066	24	7883	10	7918	41	12838	35	8974	31	8024	39
24	JH 17011	6527	56	11299	3	9234	11	11037	36	10537	9	9907	31	10346	22	9947	42	5445	47	5386	49	6650	41	9099	18	12934	32	8628	40	8566	30
25	JH 18056	8616	42	9659	21	8064	35	12282	16	9889	24	8890	50	12146	7	9189	56	7396	7	6253	20	7460	20	8042	39	13827	17	9178	25	8620	28
26	JH 18057	9051	35	10001	16	8816	19	12014	23	10360	16	9710	38	8613	43	11077	27	6764	19	6482	15	6827	36	8560	32	12877	34	8779	35	8630	26
27	JH 18087	10357	19	8734	40	7901	36	11303	32	9464	33	10320	21	10479	21	9861	46	6649	22	6661	8	7074	29	8636	31	14196	12	9306	19	8833	18
28	JH 18088	10556	17	10524	8	9299	9	11880	25	10401	13	8983	46	11382	14	13143	3	7569	5	6139	23	6334	45	9628	6	13378	26	9483	16	9407	6
29	JH 18091	10351	20	11038	4	9627	8	13227	3	11428	2	10550	14	6787	52	11095	26	6080	34	5679	39	6953	32	9326	13	16519	1	9233	21	9037	14
30	KH 2193	9930	26	9797	18	8826	18	11729	26	10159	20	10456	17	9872	27	10021	40	6802	18	5751	36	7898	8	7679	44	13736	21	9018	29	8380	35
31	KH 5146	10761	12	8976	37	8603	22	12718	9	10155	21	10454	18	10191	23	8076	59	6192	31	6295	18	7897	9	9220	14	13406	25	9010	30	8527	32
32	KMH-8322	11472	7	10869	6	11507	1	12311	15	11533	1	11014	7	12494	4	12593	6	7204	11	6862	4	6654	40	9683	5	14813	5	10152	4	9739	1

Table No. : 6 (Conti...) **Yeild Kg/ha**

S. No.	Entry Name	NWPZ										PZ																All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
33	KMH-8333	11182	10	10260	11	10324	6	10745	43	10423	12	10613	11	12869	3	11509	18	7152	12	6062	25	7179	26	8129	37	13475	23	9541	11	8944	16
34	MM2424	10752	13	9721	20	9143	14	12804	8	10444	11	11278	3	9959	25	11464	20	6293	29	5457	46	7913	7	8991	21	14990	4	9495	13	8961	15
35	NMH 4313	9655	29	10321	10	9286	10	11510	30	10337	18	10697	10	12323	5	11500	19	8350	2	7359	2	7652	14	9335	12	15004	3	10163	3	9538	4
36	PM 19104L	9555	30	8505	43	5033	55	9186	53	7732	53	9791	34	9578	30	13506	1	6753	20	4591	55	8325	2	9450	9	13776	20	9495	14	8552	31
37	PM 19105 L	12456	2	9037	34	10530	4	13009	7	10767	7	10265	25	13385	1	12274	9	6951	15	6621	9	7184	25	9088	20	14656	8	9962	6	9231	8
38	PM 19106 L	10590	16	10086	14	7005	44	8997	54	8532	51	9875	32	11571	11	11173	25	7227	9	6588	10	8242	3	8700	29	14691	7	9728	7	8634	25
39	PM 19107 L	7798	49	10228	12	8309	27	12565	12	10493	10	11026	6	8495	45	10692	32	8396	1	6484	14	7738	13	10268	3	12751	39	9484	15	9536	5
40	PM 19108 L	11475	6	7882	58	8265	29	11628	28	9415	34	8942	48	12042	9	9909	44	7436	6	5780	35	8108	4	10911	2	13818	18	9714	8	9044	13
41	PM 19109 L	9047	36	8355	47	10570	3	12448	14	10342	17	11558	2	13379	2	11736	15	7240	8	5840	31	8015	5	8973	23	14483	10	10124	5	9367	7
42	PM 19110 L	10034	25	9149	32	8647	21	12499	13	10185	19	9775	35	11484	13	11221	24	5926	38	5931	29	7492	18	8305	34	13176	28	9187	23	8692	24
43	PM 19111 L	8470	44	9286	30	5466	52	11408	31	8629	48	9643	39	11761	10	11535	17	6955	14	6270	19	7213	23	8830	25	15008	2	9590	10	8290	37
44	QMH-1604	9928	27	9567	22	5183	54	9780	49	8286	52	7923	56	5894	57	10125	37	4663	54	5247	52	6038	49	6352	53	10733	55	7219	56	6699	55
45	QMH-16101	8082	48	7989	55	4242	56	10344	47	7484	55	8171	55	6767	53	9442	54	5592	45	5671	40	5553	56	5726	56	10620	56	7322	55	6479	56
46	QMH-1617	9733	28	8908	39	7058	43	10888	38	8850	44	8803	51	8935	37	11309	21	5313	49	5896	30	6086	48	8119	38	13062	30	8394	42	7902	41
47	QMH-1697	5963	57	8125	50	3882	58	8436	56	6833	56	8532	54	7330	49	9505	53	4887	51	5566	42	5343	57	5757	55	9345	57	6944	57	6208	57
48	Rasi 6597	9401	32	9763	19	8337	26	13164	5	10387	14	9362	44	8819	40	12535	7	6502	24	5319	51	7362	22	9554	8	13901	16	9161	26	8916	17
49	Rasi 70574	10642	15	8461	44	7349	40	12255	17	9413	35	9771	36	11554	12	12751	5	5867	40	5998	26	7095	28	7929	40	14732	6	9524	12	8518	33
50	SBMH 1817	9202	33	10030	15	7086	41	10746	42	9288	38	9579	42	7615	48	11901	12	4849	52	5823	33	6737	38	6735	50	13954	15	8368	43	7837	43
51	SVMH 1627	10653	14	10649	7	6234	50	9380	50	8932	43	7676	57	6526	54	9639	50	6010	36	6692	6	4680	58	5942	54	10782	54	7325	54	6843	53
52	SYN916801	9515	31	12359	1	8476	23	12123	20	10958	4	10771	9	12185	6	13288	2	7213	10	7254	3	7821	12	10262	4	14642	9	10425	1	9541	3
53	TMMH 853	8510	43	9389	28	6236	49	10846	40	8835	45	10292	22	8014	46	9697	47	4671	53	5506	45	6381	44	7434	46	14294	11	8320	44	7632	47
54	VNR37650	4915	59	8990	35	5315	53	5873	58	6756	57	9533	43	9421	32	10429	35	3618	57	5421	48	6543	42	6803	49	11585	48	7922	50	6764	54
55	VNR4343	11443	8	9498	24	11072	2	12118	21	10903	5	10502	16	8616	42	11077	28	6492	25	5565	43	5715	53	8984	22	12836	36	8667	39	8616	29
56	BIO 9682 (C)	9032	37	10417	9	8469	24	10673	45	9872	25	9851	33	10826	19	12783	4	6144	32	5657	41	5705	54	9095	19	11313	51	8884	33	8707	23
57	CMH 08-282 (C)	10875	11	8023	52	9004	15	12075	22	9629	31	10553	13	11213	15	11772	14	7120	13	5432	47	7556	17	9377	11	12263	42	9395	18	8820	21
58	CMH 08-287 (C)	10245	21	11407	2	9160	13	11149	34	10538	8	10340	20	9912	26	11004	29	6564	23	6536	12	5915	50	8808	26	13603	22	9100	27	8825	19
59	NK6240 (C)	11623	4	8400	46	8252	30	13064	6	10019	23	10107	29	10059	24	10585	33	6366	27	6530	13	6219	46	9104	17	11387	49	8893	32	8715	22
60	CMH 08-292 (F)	7236	53	8012	53	6015	51	9324	51	7719	54	8976	47	7967	47	12465	8	5987	37	5365	50	6125	47	6595	51	12089	44	8131	48	6948	51
	L Mean	9302.2	.	9296.4	.	7804.9	.	11009.1	.	9370.1	.	9817.7	.	9423.3	.	10801.8	.	6067.2	.	5852.9	.	6875.6	.	8207.9	.	12833.1	.	8734.9	.	8227.1	.
	CV (%)	23.8	.	12.3	.	18.3	.	10.6	.	13.4	.	10.6	.	16.8	.	16.7	.	16.8	.	14.8	.	18.9	.	9.8	.	13.7	.	15.2	.	14.9	.
	F (Prob)	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.1	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.
	CD (5%)	3585.1	.	1856.3	.	2311.5	.	1893.1	.	1172.3	.	1680.7	.	2561.9	.	2924.4	.	1646.0	.	1404.6	.	2099.0	.	1301.5	.	2854.5	.	762.0	.	449.0	.
	CD (1%)	4744.1	.	2456.3	.	3058.7	.	2505.2	.	1544.2	.	2224.0	.	3390.1	.	3869.8	.	2178.1	.	1858.6	.	2777.5	.	1722.2	.	3777.2	.	1002.3	.	590.3	.

Table No. : 6 (Conti...) **Gain in yield (%) over BIO 9682**

S. No.	Entry Name	CWZ												NEPZ											
		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB		DHOL		RANC		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADV7713	65.74	3	-4.53	47	6.03	8	16.09	20	-60.99	53	-2.35	15	3.27	4	13.25	32	4.56	12	-18.51	31	12.17	6	17.75	16	4.19	12
2	AH 8072	14.59	40	44.98	2	-12.02	27	20.76	17	-44.51	41	-16.98	39	-8.36	17	32.08	12	-2.82	33	-29.18	43	-7.05	39	3.35	28	-3.92	30
3	AH 8753	11.65	41	17.25	26	-29.85	46	4.45	32	-36.03	31	-22.43	42	-23.91	37	17.99	24	-13.65	46	-29.35	45	-8.93	42	5.33	26	-11.76	40
4	AH1645	26.14	33	21.18	23	-14.76	30	33.51	11	-23.79	18	-7.44	26	-2.86	13	41.41	7	5.19	10	-14.92	25	-9.63	43	-0.71	37	0.83	19
5	AH4139	1.98	49	-12.08	52	-50.94	55	-21.79	54	-44.5	40	-34.99	50	-37.92	48	-8.9	58	-22.12	55	-43.64	54	-20.81	55	-22.92	52	-25.19	54
6	AH4272	-3.46	54	7.85	39	-18.78	36	-23	55	-43.61	39	-24.28	46	-26.99	40	6.08	41	-13.86	47	-24.89	37	-4.82	37	3.21	29	-11.49	39
7	AH5158	27.41	30	38.39	9	-17.18	33	8.3	29	-35.82	29	-13.95	38	-11.21	21	3.44	43	-21.76	54	-24.36	36	-0.22	26	13.57	18	-6.94	34
8	BH 417202	16.33	39	10.5	35	-21.28	40	32.81	12	-20.61	12	-11.21	35	4.13	3	43.05	6	0.75	23	12.59	1	1.17	22	24.06	11	13.56	2
9	BRMH-17068	38.04	16	31.02	16	-36.53	48	1.94	35	-16.86	7	-10.48	34	-39.28	52	-7.25	57	-11.01	45	-16.41	27	-24.4	57	2.76	31	-19.45	50
10	CMH-15-006	83.62	1	-17.41	56	-78.97	59	-8.31	46	-84.09	60	-38.47	52	-20.17	31	1.34	46	-24.52	57	-58.45	59	-14.86	52	-16.41	48	-24.9	53
11	CMH-15-008	-46.83	60	-14.59	54	-81.64	60	-9.93	47	-74.42	57	-68.64	60	-50.18	57	-2.25	53	-17.95	53	-62.93	60	-13.41	49	-47.6	60	-35.38	60
12	CP 555	58.27	5	15.18	29	3.93	10	24.87	14	-34.92	28	4.55	6	0.07	7	13.56	31	5.44	8	-8.33	12	-13.89	50	-0.02	36	-1.67	25
13	CP 802	36.26	19	42.42	5	-24.67	42	-19.43	51	-27.92	22	-12.57	37	-32.04	45	-0.46	50	-14.53	48	-15.96	26	-8.03	40	0.39	34	-15.23	44
14	DKC 9207	43.93	11	42.84	3	5.3	9	-20.19	52	-17.56	8	7.42	5	-5.4	14	3.58	42	2.73	17	-0.3	7	-0.71	27	20.89	13	4.72	8
15	GH16352	-3.21	53	11.93	33	-28.87	45	47.05	4	-39.18	35	-25.69	47	-26.99	39	31.81	13	-6.5	40	-36.68	51	-11.93	46	-9.07	42	-14.19	43
16	GK 3218	38.35	15	-19.23	58	-11.47	24	6.88	30	-23.17	16	-1.83	14	-2.47	11	0.65	48	-4.54	38	-26.36	39	-3.72	34	6.93	24	-6.38	33
17	HMM 1018	-30.7	58	26.59	19	-62.9	58	10.19	27	-65.82	56	-54.34	59	-55.61	60	-4.79	55	-29.09	58	-44.63	55	-17.89	53	-22.45	51	-32.52	59
18	HT 519074	28.35	28	41.73	6	-14.78	31	15.41	21	-16.22	6	-6.02	21	-17.75	28	43.4	4	1.28	21	11.99	3	12.18	5	30.38	4	10.06	5
19	IM12723	71.21	2	-0.14	43	19.11	1	36.55	8	-23.71	17	13.76	2	-9.38	20	39.85	8	5.32	9	-0.68	8	-2.16	31	-4.3	41	2.45	15
20	IMHSB-19K-12	-2.44	51	7.9	38	-38.8	50	14.77	22	-64.53	54	-38.59	53	-19.62	30	2.42	45	-10.21	43	-31.65	47	-14.18	51	-19.15	50	-15.79	45
21	IMHSB-19K-13	6.08	45	29.58	18	-35.45	47	38.76	7	-42.6	38	-27.8	48	-33.84	46	-1.03	51	-17.7	52	-33.68	49	0.54	24	-13.89	46	-16.85	49
22	IMHSB-19K-14	-4.83	55	-18.59	57	-40.02	51	-0.32	40	-46.83	47	-35.34	51	-28.47	41	10.66	33	0.58	24	-25.43	38	6.01	13	-35.59	56	-13.27	42
23	IMHVS-102	3.16	46	-4.09	45	-18.94	37	51.86	2	-52.06	50	-23.65	44	-24.63	38	14.37	30	-3.37	36	-30.82	46	-4.18	35	13.61	17	-10	37
24	JH 17011	43.74	12	30.92	17	-3.17	17	-1.2	41	-45.92	44	-5.7	19	-12.67	22	8.34	35	3.13	16	-12.23	19	-1.31	29	6.77	25	-2.54	27
25	JH 18056	11.38	42	73.33	1	-11.82	25	34.79	9	-14.57	4	-9.33	32	-8.57	18	57.61	1	3.23	15	-27.42	41	-7	38	-13.71	45	-3.81	29
26	JH 18057	17.92	37	10.37	36	-11.97	26	-0.07	38	-20.72	13	-6.96	24	-23.42	36	49.7	3	10.7	3	-12.32	20	-10.63	45	2.66	32	-0.39	21
27	JH 18087	26.32	31	34.12	14	-5.75	20	53.71	1	-30.6	24	-5.79	20	-1.49	10	27.13	15	-3.65	37	-17.23	29	0.74	23	29.84	5	4.3	11
28	JH 18088	32.85	22	42.62	4	6.86	7	8.86	28	-19.01	9	3.06	8	1.21	6	33.23	11	5.01	11	-0.05	6	18.12	3	27.37	7	14.37	1
29	JH 18091	45.74	8	36.92	10	-13.06	28	45.42	5	-24.27	19	-1.79	13	-14.36	23	21.49	18	-0.33	28	-8.49	13	2.08	20	-0.81	38	-0.88	22
30	KH 2193	32.52	23	34.91	12	-20.95	39	-2.89	42	-12.89	3	-3.9	17	-38.56	49	9.4	34	-16.51	51	-29.25	44	-12.03	47	8.72	23	-16.09	47

Table No. : 6 (Conti...) **Gain in yield (%) over BIO 9682**

S. No.	Entry Name	CWZ												NEPZ											
		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB		DHOL		RANC		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
31	KH 5146	40.25	14	14.93	30	0.61	13	-39.04	59	-47.77	49	-6.96	25	-31.82	44	56.04	2	-6.75	41	-23.2	34	-18.18	54	3.18	30	-7.79	35
32	KMH-8322	44.06	10	-11.39	50	-11.43	23	13.52	24	-20.82	14	0.7	9	9.34	2	38.35	9	-1.28	31	-10.23	17	8.53	8	21.16	12	11.39	4
33	KMH-8333	29.21	27	38.79	8	16.57	4	-3	43	-37.45	33	-0.74	12	2.21	5	19.03	22	-0.21	27	-18.16	30	-26.17	58	4.04	27	-4.3	31
34	MM2424	37.37	17	1.65	41	-26.66	44	48.26	3	-19.48	10	-9.21	31	-6.84	15	21	20	-10.71	44	-9.46	15	2.51	18	26.02	9	1.86	16
35	NMH 4313	33.41	21	21.25	22	18.51	2	14.21	23	-16.06	5	8.85	4	-8.8	19	43.39	5	7.01	6	-2.86	10	-10.26	44	24.6	10	5.58	7
36	PM 19104L	42.05	13	-9.87	49	-17.6	35	-3.68	44	-19.7	11	-2.99	16	-22.58	35	21.03	19	3.37	14	-13.41	21	21.12	2	-9.33	43	-1.5	24
37	PM 19105 L	44.6	9	8.88	37	2.81	11	0.04	36	-35.95	30	-0.05	11	-30.32	43	18.56	23	-0.49	29	-19.36	32	11.02	7	26.72	8	-1.88	26
38	PM 19106 L	31.67	25	34.89	13	-0.28	15	-30.68	58	-31.44	25	-6.25	23	-36.98	47	26.81	16	9.53	4	-14.47	24	4.88	15	-11.48	44	-5.86	32
39	PM 19107 L	59.72	4	24.97	20	17.53	3	6.14	31	-21.46	15	15.5	1	-1.14	9	19.9	21	-1.44	32	12.57	2	8.03	10	41.51	2	12.46	3
40	PM 19108 L	49.16	6	16.45	27	0.64	12	-3.93	45	-27.92	21	3.7	7	-15.91	26	3.44	44	1.6	20	0.23	4	6.65	12	18.96	14	1.05	18
41	PM 19109 L	36.78	18	-55.73	60	15.5	5	43.24	6	-10.74	2	10.74	3	-22.13	34	8.18	36	2.35	19	-3.04	11	-1.12	28	12.38	19	-2.57	28
42	PM 19110 L	30.37	26	-4.34	46	-20.32	38	21.82	16	-30.26	23	-11.46	36	-2.77	12	16.86	26	-15.41	49	-16.97	28	7.33	11	10.27	22	-1.14	23
43	PM 19111 L	23.58	34	18.7	25	-9.27	22	3.3	33	-37.03	32	-9.86	33	-46.53	56	-1.09	52	-2.89	34	-23.57	35	15.68	4	-33.68	55	-16.54	48
44	QMH-1604	2.35	47	-16.25	55	-40.16	52	-25.58	56	-52.44	51	-33.24	49	-42.97	55	-23.11	60	-23.11	56	-33.5	48	-27.81	60	-15.83	47	-28.23	56
45	QMH-16101	-6.06	56	-14.54	53	-53.59	56	-26.49	57	-53.26	52	-43.14	57	-40.01	53	7.27	38	-31.74	59	-46.46	56	-1.33	30	-44.56	59	-28.77	57
46	QMH-1617	9.61	43	13.04	31	-13.3	29	-20.2	53	-46.42	45	-19.51	41	-29.19	42	0.99	47	-16.03	50	-8.73	14	8.25	9	10.38	21	-8.33	36
47	QMH-1697	2.15	48	22.01	21	-41.83	53	17.68	19	-74.97	58	-41.6	56	-52.26	59	-5.82	56	-40.38	60	-37.35	52	-2.17	32	-30.66	54	-30.14	58
48	Rasi 6597	46.01	7	-4.65	48	-16.71	32	26.34	13	-26.77	20	-3.9	18	-21.89	33	6.11	40	-0.2	26	-27.18	40	1.66	21	76.38	1	3	13
49	Rasi 70574	32.35	24	-25.51	59	-4.41	19	24.06	15	-41.38	37	-7.79	28	-21.86	32	15.36	28	1.07	22	-34.46	50	-3.47	33	-22.99	53	-11.79	41
50	SBMH 1817	7.13	44	-1.39	44	-23.81	41	12.17	25	-45.78	43	-22.86	43	-19.08	29	14.67	29	2.51	18	-54.63	58	5.44	14	-3.61	39	-11.47	38
51	SVMH 1627	-37.18	59	-11.6	51	-54.86	57	-13.59	48	-45.46	42	-46.34	58	-38.68	50	6.55	39	-9.06	42	-11.09	18	-27.47	59	-36.42	57	-20.05	51
52	SYN916801	27.53	29	34.94	11	-2.23	16	11.07	26	-32.16	26	-6.17	22	19.51	1	-3.2	54	9.16	5	-13.77	22	2.37	19	12.02	20	5.82	6
53	TMMH 853	-3.14	52	11.99	32	-17.44	34	-15.27	50	-46.47	46	-23.99	45	-39.21	51	15.37	27	-5.3	39	-28.5	42	-8.52	41	-3.68	40	-15.89	46
54	VNR37650	19.34	36	16.2	28	-44.26	54	-14.76	49	-81.79	59	-40.71	55	-42.74	54	-9.23	59	11.12	2	-38.3	53	-23.76	56	-17.46	49	-23.13	52
55	VNR4343	21.78	35	6.26	40	-26.28	43	-0.16	39	-38.32	34	-18.91	40	-16.7	27	31.47	14	5.97	7	-9.57	16	3.33	17	29.4	6	4.34	10
56	BIO 9682 (C)	0	50	0	42	0	14	0	37	0	1	0	10	0	8	0	49	0	25	0	5	0	25	0	35	0	20
57	CMH 08-282 (C)	16.43	38	38.94	7	10.18	6	-42.24	60	-40.27	36	-9.13	29	-14.64	24	26.38	17	11.24	1	-1	9	3.47	16	0.59	33	2.75	14
58	CMH 08-287 (C)	26.31	32	32.2	15	-8.14	21	33.8	10	-33.64	27	-7.62	27	-7.53	16	33.75	10	3.58	13	-19.52	33	-4.33	36	18.72	15	1.45	17
59	NK6240 (C)	35.2	20	11.43	34	-3.69	18	2.42	34	-47.48	48	-9.2	30	-15.61	25	7.73	37	-0.63	30	-14.22	23	22.15	1	30.55	3	4.61	9
60	CMH 08-292 (F)	-11.94	57	20.54	24	-38.09	49	19.46	18	-64.67	55	-40.24	54	-51.76	58	17.85	25	-3.33	35	-47.25	57	-13.27	48	-41.2	58	-25.44	55

Table No. : 6 (Conti...) **Gain in yield (%) over BIO 9682**

S. No.	Entry Name	NWPZ										PZ																All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADV7713	24.19	9	-24.47	59	18.36	7	4.32	35	-1.76	30	7.13	12	2.52	16	-24.6	51	-7.65	43	0.47	38	33.93	16	0.66	15	7.76	43	2	28	1.31	20
2	AH 8072	12.84	23	-22.5	51	-0.95	25	18.66	10	-1.43	27	-0.9	37	-34.8	51	-15.1	31	-11.3	46	12.03	17	31.28	19	-3.29	28	19.07	24	-1.74	37	-4.61	36
3	AH 8753	-15.27	51	-11.05	31	-4.21	33	0.74	41	-5.74	37	-9.53	49	-16.7	35	-29	57	1.69	30	5.05	28	13.37	43	-13.6	42	-4.52	53	-10.6	49	-11.9	45
4	AH1645	13.26	22	-9.16	25	-8.05	38	-0.84	46	-4.99	36	-12.72	53	-2.76	20	-14.1	30	9	21	1.22	37	19.9	34	-6.71	33	12.9	38	-0.82	34	-2.17	34
5	AH4139	-24	54	-26.05	60	3.99	20	5.39	33	-7.15	39	-11.74	52	-45.7	58	-21.5	39	-6.52	42	-32.7	59	3.67	51	-29.3	52	14.01	33	-17.2	53	-20.4	52
6	AH4272	12.36	24	-14.21	38	-16.61	42	8.04	29	-7.49	40	6.79	15	-18.3	39	-21.6	41	-25.8	55	-14	54	19.41	37	-2.83	24	6.22	46	-8.12	47	-11.5	44
7	AH5158	1.12	34	-12.93	33	4.37	17	12.04	24	-1.54	28	9.37	8	-18.3	38	-24.8	52	-0.99	33	-13.6	53	37.67	11	-16.7	45	14.8	31	-3.89	41	-5.73	38
8	BH 417202	35.62	3	5.39	5	23.97	5	14.05	18	14.15	3	3.47	28	-21.3	44	-11.9	22	29.53	3	-2.62	44	25.72	27	-4.85	30	22.1	19	3.37	24	5.64	10
9	BRMH-17068	-18.55	52	-17.17	41	-23	48	1.95	39	-11.73	47	4.29	24	-13.5	33	-31	58	-1.26	35	3.11	32	22.07	31	-9.6	36	23.56	14	-2.11	38	-9.65	42
10	CMH-15-006	-77	60	-24.02	57	-76.58	60	-70.05	59	-54.44	60	-34.83	60	-76.2	60	-7.28	13	-61.4	59	-19.8	56	-32.9	60	-56.2	59	-20.5	58	-37.2	59	-37.1	59
11	CMH-15-008	-42.24	58	-19.08	45	-59.75	59	-83.18	60	-52.95	59	-23.94	59	-72.3	59	-24.3	49	-79.2	60	-38.9	60	-26.3	59	-58	60	-28.7	60	-42.3	60	-46.5	60
12	CP 555	27.2	5	-10.24	29	-3.16	31	13.6	19	1.93	22	6.09	19	-11.8	31	-9.56	16	2.85	28	9.69	21	53.77	1	5.73	7	16.73	27	8.21	9	3.95	12
13	CP 802	-7.73	45	-23.66	56	-4.24	34	-4.23	48	-13.14	49	14.14	4	-16	34	-19.8	36	11.1	17	9.1	22	34.03	15	-25	48	9.05	41	-1.37	36	-8.7	40
14	DKC 9207	-1.21	39	-2.81	13	5.86	16	24.61	2	10.34	6	3.8	26	2.27	17	-22.3	43	4.41	26	18.58	5	22.32	30	3.44	10	13.12	37	4.4	20	6	9
15	GH16352	-4.45	41	-13.77	36	-17.82	46	0.33	44	-9.06	41	-8.69	45	-20.1	41	-38.2	60	-4.05	39	13.9	16	17.05	39	-21.7	47	-2.84	52	-11.2	51	-13.9	48
16	GK 3218	15.33	18	-18.15	42	-7.96	37	18.47	11	-2.68	32	2.12	30	-10.1	29	-4.84	10	-8.67	44	15.95	11	20.13	33	0.38	16	16.31	29	3.6	22	-0.91	27
17	HMM 1018	-24.35	55	-21.29	49	-52.49	57	-23.5	57	-32.03	58	-23.4	58	-40.4	56	-27.7	55	-55.6	58	-23.3	57	-2.28	55	-38.1	58	-28.6	59	-30.6	58	-35.1	58
18	HT 519074	-0.19	38	-20.35	48	-3.61	32	23.36	4	-0.47	26	-2.74	41	0.36	18	-22.8	45	12.97	16	18.19	7	39.39	6	-3.29	27	23.79	13	5.87	17	4.12	11
19	IM12723	51.13	1	-8.54	23	-2.39	28	30.48	1	5	15	32.64	1	11.54	8	-12	23	26.8	4	35.87	1	26.31	24	22.45	1	11.23	40	15.12	2	9.93	2
20	IMHSB-19K-12	-1.52	40	-23.26	54	-17.59	45	9.05	27	-9.32	42	4.33	23	-40.1	55	-21	38	-5.41	41	2.37	34	19.73	35	-9	35	5.7	47	-7.01	45	-14.7	49
21	IMHSB-19K-13	-13.77	50	-9.4	26	8.71	12	2.77	37	-1.69	29	3.72	27	-10	28	-17.9	34	-27.4	56	5.87	27	2.32	52	-15	43	0.07	50	-8.07	46	-12.3	46
22	IMHSB-19K-14	-10.34	47	-4.72	17	-19.52	47	-16.22	55	-13.34	50	-2.53	40	-33.5	50	-24.2	48	-11.8	48	-29.6	58	30.41	21	-38	57	6.65	45	-13.2	52	-16.6	50
23	IMHVS-102	-10.31	46	-9.46	27	-10.89	39	-13.09	52	-10.95	46	12.9	5	-17.3	36	-5.98	11	-18.1	50	7.24	24	38.17	10	-13	41	13.48	35	1.02	31	-7.84	39
24	JH 17011	-27.74	56	8.47	3	9.03	11	3.41	36	6.74	9	0.57	31	-4.43	22	-22.2	42	-11.4	47	-4.78	49	16.55	41	0.04	18	14.32	32	-2.88	40	-1.62	30
25	JH 18056	-4.61	42	-7.27	21	-4.79	35	15.08	16	0.17	24	-9.76	50	12.19	7	-28.1	56	20.38	7	10.55	20	30.76	20	-11.6	39	22.22	17	3.31	25	-1	28
26	JH 18057	0.22	35	-3.99	16	4.09	19	12.57	23	4.94	16	-1.43	38	-20.4	43	-13.4	27	10.08	19	14.59	15	19.65	36	-5.89	32	13.82	34	-1.18	35	-0.89	26
27	JH 18087	14.67	19	-16.15	40	-6.71	36	5.9	32	-4.13	33	4.77	21	-3.2	21	-22.9	46	8.21	22	17.77	8	23.99	29	-5.05	31	25.48	12	4.75	19	1.45	18
28	JH 18088	16.88	17	1.04	8	9.8	9	11.31	25	5.36	13	-8.81	46	5.14	14	2.81	3	23.19	5	8.54	23	11.01	45	5.86	6	18.25	26	6.74	16	8.05	6
29	JH 18091	14.6	20	5.97	4	13.67	8	23.93	3	15.76	2	7.1	14	-37.3	52	-13.2	26	-1.04	34	0.39	39	21.87	32	2.54	13	46.01	1	3.94	21	3.79	14
30	KH 2193	9.95	26	-5.94	18	4.21	18	9.9	26	2.91	20	6.15	17	-8.81	27	-21.6	40	10.7	18	1.67	36	38.43	8	-15.6	44	21.42	21	1.51	29	-3.76	35

Table No. : 6 (Conti...) **Gain in yield (%) over BIO 9682**

S. No.	Entry Name	NWPZ										PZ																All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
31	KH 5146	19.15	12	-13.83	37	1.58	22	19.16	9	2.87	21	6.13	18	-5.87	23	-36.8	59	0.78	31	11.28	18	38.42	9	1.37	14	18.5	25	1.42	30	-2.07	32
32	KMH-8322	27.01	7	4.34	6	35.87	1	15.35	15	16.83	1	11.81	7	15.41	4	-1.49	6	17.25	11	21.32	4	16.63	40	6.46	5	30.93	5	14.28	4	11.86	1
33	KMH-8333	23.81	10	-1.51	11	21.9	6	0.67	43	5.58	12	7.74	11	18.88	3	-9.97	18	16.41	12	7.17	25	25.83	26	-10.6	37	19.11	23	7.4	11	2.73	16
34	MM2424	19.05	13	-6.68	20	7.96	14	19.97	8	5.8	11	14.49	3	-8.01	25	-10.3	20	2.42	29	-3.53	46	38.7	7	-1.15	21	32.5	4	6.89	13	2.92	15
35	NMH 4313	6.9	29	-0.92	10	9.64	10	7.84	30	4.7	18	8.59	10	13.83	5	-10	19	35.89	2	30.09	2	34.11	14	2.64	12	32.62	3	14.4	3	9.55	4
36	PM 19104L	5.79	30	-18.35	43	-40.58	55	-13.93	53	-21.68	53	-0.6	34	-11.5	30	5.66	1	9.91	20	-18.8	55	45.92	2	3.9	9	21.76	20	6.88	14	-1.78	31
37	PM 19105 L	37.91	2	-13.24	34	24.33	4	21.89	7	9.06	7	4.2	25	23.64	1	-3.99	9	13.12	15	17.05	9	25.92	25	-0.08	20	29.55	8	12.14	6	6.03	8
38	PM 19106 L	17.25	16	-3.18	14	-17.28	44	-15.7	54	-13.57	51	0.25	32	6.89	11	-12.6	25	17.62	9	16.47	10	44.46	3	-4.35	29	29.85	7	9.5	7	-0.84	25
39	PM 19107 L	-13.66	49	-1.81	12	-1.9	27	17.72	12	6.29	10	11.93	6	-21.5	45	-16.4	32	36.64	1	14.62	14	35.63	13	12.9	3	12.71	39	6.75	15	9.53	5
40	PM 19108 L	27.05	6	-24.33	58	-2.42	29	8.95	28	-4.63	34	-9.22	48	11.23	9	-22.5	44	21.02	6	2.18	35	42.11	4	19.96	2	22.14	18	9.35	8	3.87	13
41	PM 19109 L	0.17	36	-19.8	47	24.81	3	16.63	14	4.76	17	17.34	2	23.58	2	-8.19	15	17.83	8	3.24	31	40.48	5	-1.35	23	28.02	10	13.96	5	7.59	7
42	PM 19110 L	11.1	25	-12.17	32	2.09	21	17.11	13	3.17	19	-0.77	35	6.08	13	-12.2	24	-3.55	38	4.86	29	31.31	18	-8.69	34	16.47	28	3.41	23	-0.17	24
43	PM 19111 L	-6.22	44	-10.85	30	-35.46	52	6.89	31	-12.59	48	-2.1	39	8.64	10	-9.76	17	13.2	14	10.85	19	26.42	23	-2.92	25	32.66	2	7.95	10	-4.79	37
44	QMH-1604	9.92	27	-8.16	22	-38.8	54	-8.36	49	-16.07	52	-19.57	56	-45.6	57	-20.8	37	-24.1	54	-7.24	52	5.84	49	-30.2	53	-5.13	55	-18.7	56	-23.1	55
45	QMH-16101	-10.52	48	-23.3	55	-49.91	56	-3.08	47	-24.19	55	-17.05	55	-37.5	53	-26.1	54	-8.99	45	0.25	40	-2.67	56	-37	56	-6.13	56	-17.6	55	-25.6	56
46	QMH-1617	7.76	28	-14.48	39	-16.66	43	2.01	38	-10.35	44	-10.63	51	-17.5	37	-11.5	21	-13.5	49	4.24	30	6.68	48	-10.7	38	15.46	30	-5.52	42	-9.24	41
47	QMH-1697	-33.98	57	-22	50	-54.16	58	-20.96	56	-30.79	56	-13.39	54	-32.3	49	-25.6	53	-20.5	51	-1.61	42	-6.35	57	-36.7	55	-17.4	57	-21.8	57	-28.7	57
48	Rasi 6597	4.09	32	-6.27	19	-1.57	26	23.33	5	5.21	14	-4.96	44	-18.5	40	-1.94	7	5.83	24	-5.97	51	29.04	22	5.04	8	22.87	16	3.12	26	2.4	17
49	Rasi 70574	17.83	15	-18.78	44	-13.23	40	14.82	17	-4.65	35	-0.81	36	6.73	12	-0.25	5	-4.52	40	6.04	26	24.36	28	-12.8	40	30.22	6	7.2	12	-2.17	33
50	SBMH 1817	1.88	33	-3.71	15	-16.33	41	0.68	42	-5.92	38	-2.76	42	-29.7	48	-6.9	12	-21.1	52	2.95	33	18.08	38	-26	50	23.34	15	-5.8	43	-9.99	43
51	SVMH 1627	17.95	14	2.23	7	-26.39	50	-12.11	50	-9.53	43	-22.07	57	-39.7	54	-24.6	50	-2.19	36	18.31	6	-18	58	-34.7	54	-4.7	54	-17.5	54	-21.4	53
52	SYN916801	5.35	31	18.64	1	0.07	23	13.59	20	11	4	9.34	9	12.56	6	3.95	2	17.4	10	28.24	3	37.08	12	12.82	4	29.43	9	17.35	1	9.58	3
53	TMMH 853	-5.78	43	-9.86	28	-26.37	49	1.62	40	-10.5	45	4.48	22	-26	46	-24.1	47	-24	53	-2.67	45	11.84	44	-18.3	46	26.34	11	-6.35	44	-12.3	47
54	VNR37650	-45.58	59	-13.7	35	-37.24	53	-44.98	58	-31.57	57	-3.22	43	-13	32	-18.4	35	-41.1	57	-4.17	48	14.69	42	-25.2	49	2.4	48	-10.8	50	-22.3	54
55	VNR4343	26.69	8	-8.82	24	30.73	2	13.54	21	10.44	5	6.61	16	-20.4	42	-13.4	28	5.66	25	-1.61	43	0.18	53	-1.23	22	13.46	36	-2.44	39	-1.04	29
56	BIO 9682 (C)	0	37	0	9	0	24	0	45	0	25	0	33	0	19	0	4	0	32	0	41	0	54	0	19	0	51	0	33	0	23
57	CMH 08-282 (C)	20.41	11	-22.98	52	6.32	15	13.13	22	-2.46	31	7.13	13	3.58	15	-7.91	14	15.89	13	-3.97	47	32.44	17	3.1	11	8.4	42	5.75	18	1.3	21
58	CMH 08-287 (C)	13.43	21	9.51	2	8.15	13	4.46	34	6.75	8	4.96	20	-8.44	26	-13.9	29	6.83	23	15.56	12	3.68	50	-3.16	26	20.24	22	2.44	27	1.36	19
59	NK6240 (C)	28.69	4	-19.36	46	-2.57	30	22.4	6	1.49	23	2.6	29	-7.08	24	-17.2	33	3.61	27	15.45	13	9.01	46	0.09	17	0.65	49	0.1	32	0.1	22
60	CMH 08-292 (F)	-19.89	53	-23.09	53	-28.97	51	-12.64	51	-21.81	54	-8.87	47	-26.4	47	-2.48	8	-2.56	37	-5.15	50	7.36	47	-27.5	51	6.86	44	-8.47	48	-20.2	51

Table No. : 6 (Conti...) **Gain in yield (%) over CMH 08-282**

S. No.	Entry Name	CWZ												NEPZ											
		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB		DHOL		RANC		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADV7713	42.35	3	-31.29	47	-3.77	8	101	20	-34.69	53	7.46	15	20.99	4	-10.39	32	-6	12	-17.69	31	8.41	6	17.06	16	1.4	12
2	AH 8072	-1.58	40	4.35	2	-20.15	27	109.09	17	-7.1	41	-8.64	39	7.36	17	4.51	12	-12.64	33	-28.47	43	-10.16	39	2.74	28	-6.48	30
3	AH 8753	-4.11	41	-15.61	26	-36.33	46	80.84	32	7.09	31	-14.64	42	-10.85	37	-6.64	24	-22.37	46	-28.64	45	-11.98	42	4.71	26	-14.12	40
4	AH1645	8.34	33	-12.78	23	-22.64	30	131.16	11	27.59	18	1.85	26	13.81	13	11.89	7	-5.43	10	-14.06	25	-12.66	43	-1.29	37	-1.87	19
5	AH4139	-12.41	49	-36.72	52	-55.47	55	35.41	54	-7.09	40	-28.46	50	-27.27	48	-27.92	58	-29.98	55	-43.07	54	-23.46	55	-23.37	52	-27.19	54
6	AH4272	-17.09	54	-22.38	39	-26.28	36	33.32	55	-5.59	39	-16.67	46	-14.46	40	-16.06	41	-22.56	47	-24.13	37	-8	37	2.6	29	-13.85	39
7	AH5158	9.43	30	-0.39	9	-24.84	33	87.5	29	7.45	29	-5.31	38	4.02	21	-18.15	43	-29.66	54	-23.6	36	-3.56	26	12.9	18	-9.42	34
8	BH 417202	-0.08	39	-20.47	35	-28.55	40	129.95	12	32.91	12	-2.3	35	22	3	13.19	6	-9.43	23	13.72	1	-2.22	22	23.33	11	10.53	2
9	BRMH-17068	18.56	16	-5.7	16	-42.4	48	76.51	35	39.19	7	-1.49	34	-28.86	52	-26.61	57	-20	45	-15.57	27	-26.93	57	2.16	31	-21.6	50
10	CMH-15-006	57.71	1	-40.55	56	-80.92	59	58.76	46	-73.36	60	-32.29	52	-6.47	31	-19.81	46	-32.15	57	-58.03	59	-17.72	52	-16.9	48	-26.91	53
11	CMH-15-008	-54.33	60	-38.52	54	-83.34	60	55.96	47	-57.17	57	-65.49	60	-41.64	57	-22.65	53	-26.24	53	-62.56	60	-16.31	49	-47.91	60	-37.1	60
12	CP 555	35.94	5	-17.1	29	-5.67	10	116.21	14	8.95	28	15.05	6	17.24	7	-10.14	31	-5.21	8	-7.41	12	-16.77	50	-0.6	36	-4.3	25
13	CP 802	17.03	19	2.51	5	-31.63	42	39.51	51	20.67	22	-3.79	37	-20.38	45	-21.24	50	-23.16	48	-15.11	26	-11.11	40	-0.2	34	-17.49	44
14	DKC 9207	23.62	11	2.81	3	-4.43	9	38.18	52	38.02	8	18.21	5	10.83	14	-18.04	42	-7.65	17	0.7	7	-4.03	27	20.18	13	1.92	8
15	GH16352	-16.87	53	-19.44	33	-35.45	45	154.61	4	1.83	35	-18.23	47	-14.46	39	4.3	13	-15.94	40	-36.05	51	-14.88	46	-9.6	42	-16.48	43
16	GK 3218	18.83	15	-41.86	58	-19.65	24	85.06	30	28.63	16	8.03	14	14.26	11	-20.36	48	-14.18	38	-25.62	39	-6.95	34	6.3	24	-8.88	33
17	HMM 1018	-40.48	58	-8.89	19	-66.33	58	90.79	27	-42.77	56	-49.76	59	-47.99	60	-24.66	55	-36.25	58	-44.07	55	-20.65	53	-22.9	51	-34.32	59
18	HT 519074	10.24	28	2.01	6	-22.66	31	99.82	21	40.27	6	3.42	21	-3.63	28	13.47	4	-8.95	21	13.12	3	8.42	5	29.61	4	7.12	5
19	IM12723	47.05	2	-28.13	43	8.1	1	136.43	8	27.72	17	25.18	2	6.17	20	10.66	8	-5.32	9	0.32	8	-5.44	31	-4.86	41	-0.29	15
20	IMHSB-19K-12	-16.2	51	-22.34	38	-44.46	50	98.72	22	-40.62	54	-32.42	53	-5.83	30	-18.96	45	-19.28	43	-30.96	47	-17.05	51	-19.63	50	-18.04	45
21	IMHSB-19K-13	-8.89	45	-6.74	18	-41.42	47	140.25	7	-3.91	38	-20.55	48	-22.48	46	-21.69	51	-26.01	52	-33.01	49	-2.83	24	-14.4	46	-19.07	49
22	IMHSB-19K-14	-18.26	55	-41.41	57	-45.56	51	72.59	40	-10.98	47	-28.85	51	-16.2	41	-12.44	33	-9.58	24	-24.67	38	2.45	13	-35.97	56	-15.59	42
23	IMHVS-102	-11.4	46	-30.97	45	-26.43	37	162.93	2	-19.74	50	-15.98	44	-11.7	38	-9.5	30	-13.13	36	-30.12	46	-7.39	35	12.94	17	-12.4	37
24	JH 17011	23.46	12	-5.77	17	-12.12	17	71.07	41	-9.46	44	3.77	19	2.31	22	-14.27	35	-7.28	16	-11.35	19	-4.62	29	6.14	25	-5.14	27
25	JH 18056	-4.33	42	24.75	1	-19.97	25	133.37	9	43.03	4	-0.22	32	7.11	18	24.71	1	-7.2	15	-26.69	41	-10.12	38	-14.22	45	-6.38	29
26	JH 18057	1.28	37	-20.56	36	-20.11	26	73.03	38	32.72	13	2.38	24	-10.28	36	18.45	3	-0.48	3	-11.43	20	-13.62	45	2.06	32	-3.05	21
27	JH 18087	8.49	31	-3.47	14	-14.46	20	166.13	1	16.19	24	3.67	20	15.41	10	0.6	15	-13.38	37	-16.39	29	-2.64	23	29.07	5	1.51	11
28	JH 18088	14.1	22	2.65	4	-3.02	7	88.49	28	35.59	9	13.41	8	18.57	6	5.42	11	-5.59	11	0.96	6	14.17	3	26.62	7	11.31	1
29	JH 18091	25.17	8	-1.45	10	-21.09	28	151.77	5	26.78	19	8.07	13	0.33	23	-3.87	18	-10.4	28	-7.57	13	-1.34	20	-1.39	38	-3.53	22
30	KH 2193	13.82	23	-2.9	12	-28.26	39	68.14	42	45.84	3	5.75	17	-28.02	49	-13.43	34	-24.94	51	-28.54	44	-14.98	47	8.08	23	-18.33	47

Table No. : 6 (Conti...) **Gain in yield (%) over CMH 08-282**

S. No.	Entry Name	CWZ												NEPZ											
		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB		DHOL		RANC		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
31	KH 5146	20.46	14	-17.28	30	-8.69	13	5.54	59	-12.55	49	2.38	25	-20.12	44	23.47	2	-16.17	41	-22.42	34	-20.93	54	2.58	30	-10.25	35
32	KMH-8322	23.73	10	-36.22	50	-19.61	23	96.55	24	32.56	14	10.81	9	28.1	2	9.47	9	-11.25	31	-9.33	17	4.9	8	20.45	12	8.42	4
33	KMH-8333	10.98	27	-0.11	8	5.79	4	67.94	43	4.72	33	9.23	12	19.75	5	-5.81	22	-10.29	27	-17.34	30	-28.64	58	3.43	27	-6.86	31
34	MM2424	17.98	17	-26.84	41	-33.44	44	156.7	3	34.81	10	-0.09	31	9.14	15	-4.25	20	-19.73	44	-8.54	15	-0.92	18	25.28	9	-0.86	16
35	NMH 4313	14.58	21	-12.73	22	7.56	2	97.74	23	40.53	5	19.78	4	6.85	19	13.46	5	-3.8	6	-1.88	10	-13.27	44	23.87	10	2.76	7
36	PM 19104L	22.01	13	-35.13	49	-25.22	35	66.77	44	34.44	11	6.75	16	-9.3	35	-4.23	19	-7.08	14	-12.53	21	17.06	2	-9.87	43	-4.13	24
37	PM 19105 L	24.19	9	-21.63	37	-6.69	11	73.21	36	7.24	30	9.99	11	-18.37	43	-6.19	23	-10.54	29	-18.55	32	7.3	7	25.98	8	-4.5	26
38	PM 19106 L	13.09	25	-2.91	13	-9.5	15	20.02	58	14.78	25	3.16	23	-26.17	47	0.34	16	-1.54	4	-13.61	24	1.36	15	-12	44	-8.38	32
39	PM 19107 L	37.18	4	-10.05	20	6.67	3	83.77	31	31.49	15	27.1	1	15.81	9	-5.13	21	-11.4	32	13.71	2	4.41	10	40.68	2	9.46	3
40	PM 19108 L	28.11	6	-16.18	27	-8.66	12	66.34	45	20.68	21	14.11	7	-1.48	26	-18.15	44	-8.66	20	1.24	4	3.07	12	18.26	14	-1.65	18
41	PM 19109 L	17.48	18	-68.13	60	4.83	5	148	6	49.43	2	21.87	3	-8.77	34	-14.4	36	-7.98	19	-2.06	11	-4.43	28	11.72	19	-5.18	28
42	PM 19110 L	11.97	26	-31.15	46	-27.68	38	110.91	16	16.76	23	-2.57	36	13.91	12	-7.53	26	-23.96	49	-16.14	28	3.74	11	9.62	22	-3.78	23
43	PM 19111 L	6.14	34	-14.57	25	-17.66	22	78.85	33	5.42	32	-0.81	33	-37.35	56	-21.74	52	-12.7	34	-22.8	35	11.8	4	-34.07	55	-18.77	48
44	QMH-1604	-12.09	47	-39.72	55	-45.69	52	28.85	56	-20.38	51	-26.54	49	-33.19	55	-39.16	60	-30.88	56	-32.83	48	-30.23	60	-16.32	47	-30.15	56
45	QMH-16101	-19.32	56	-38.49	53	-57.88	56	27.27	57	-21.75	52	-37.43	57	-29.72	53	-15.12	38	-38.64	59	-45.92	56	-4.64	30	-44.88	59	-30.68	57
46	QMH-1617	-5.86	43	-18.64	31	-21.32	29	38.17	53	-10.3	45	-11.42	41	-17.05	42	-20.09	47	-24.51	50	-7.81	14	4.62	9	9.73	21	-10.78	36
47	QMH-1697	-12.27	48	-12.18	21	-47.21	53	103.76	19	-58.1	58	-35.74	56	-44.07	59	-25.48	56	-46.4	60	-36.72	52	-5.44	32	-31.07	54	-32.01	58
48	Rasi 6597	25.4	7	-31.37	48	-24.41	32	118.74	13	22.6	20	5.75	18	-8.49	33	-16.03	40	-10.28	26	-26.45	40	-1.75	21	75.35	1	0.25	13
49	Rasi 70574	13.68	24	-46.39	59	-13.24	19	114.79	15	-1.87	37	1.47	28	-8.46	32	-8.72	28	-9.14	22	-33.8	50	-6.71	33	-23.44	53	-14.15	41
50	SBMH 1817	-7.99	44	-29.03	44	-30.86	41	94.21	25	-9.22	43	-15.12	43	-5.2	29	-9.26	29	-7.84	18	-54.17	58	1.91	14	-4.17	39	-13.84	38
51	SVMH 1627	-46.04	59	-36.37	51	-59.03	57	49.61	48	-8.69	42	-40.95	58	-28.16	50	-15.69	39	-18.25	42	-10.19	18	-29.9	59	-36.8	57	-22.19	51
52	SYN916801	9.53	29	-2.88	11	-11.27	16	92.31	26	13.58	26	3.25	22	40.02	1	-23.4	54	-1.87	5	-12.9	22	-1.06	19	11.36	20	2.99	6
53	TMMH 853	-16.81	52	-19.4	32	-25.07	34	46.7	50	-10.38	46	-16.36	45	-28.78	51	-8.71	27	-14.86	39	-27.78	42	-11.58	41	-4.24	40	-18.14	46
54	VNR37650	2.5	36	-16.36	28	-49.41	54	47.59	49	-69.5	59	-34.75	55	-32.92	54	-28.18	59	-0.11	2	-37.68	53	-26.31	56	-17.95	49	-25.18	52
55	VNR4343	4.59	35	-23.52	40	-33.09	43	72.86	39	3.26	34	-10.77	40	-2.41	27	4.03	14	-4.73	7	-8.66	16	-0.13	17	28.64	6	1.55	10
56	BIO 9682 (C)	-14.11	50	-28.03	42	-9.24	14	73.14	37	67.42	1	10.04	10	17.16	8	-20.87	49	-10.1	25	1.01	5	-3.35	25	-0.59	35	-2.67	20
57	CMH 08-282 (C)	0	38	0	7	0	6	0	60	0	36	0	29	0	24	0	17	0	1	0	9	0	16	0	33	0	14
58	CMH 08-287 (C)	8.49	32	-4.85	15	-16.63	21	131.66	10	11.1	27	1.66	27	8.33	16	5.83	10	-6.89	13	-18.71	33	-7.54	36	18.02	15	-1.27	17
59	NK6240 (C)	16.12	20	-19.8	34	-12.59	18	77.32	34	-12.07	48	-0.09	30	-1.14	25	-14.75	37	-10.67	30	-13.35	23	18.05	1	29.78	3	1.81	9
60	CMH 08-292 (F)	-24.36	57	-13.24	24	-43.81	49	106.84	18	-40.85	55	-34.24	54	-43.48	58	-6.75	25	-13.1	35	-46.72	57	-16.18	48	-41.55	58	-27.44	55

Table No. : 6 (Conti...) **Gain in yield (%) over CMH 08-282**

S. No.	Entry Name	NWPZ										PZ																All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADV7713	3.14	9	-1.93	59	11.33	7	-7.79	35	0.72	30	0	12	-1.03	16	-18.1	51	-20.3	43	4.63	38	1.13	16	-2.36	15	-0.58	43	-3.55	28	0.01	20
2	AH 8072	-6.29	23	0.62	51	-6.83	25	4.88	10	1.05	27	-7.49	37	-37.1	51	-7.82	31	-23.5	46	16.67	17	-0.87	19	-6.2	28	9.84	24	-7.08	37	-5.84	36
3	AH 8753	-29.63	51	15.5	31	-9.9	33	-10.96	41	-3.37	37	-15.55	49	-19.6	35	-22.9	57	-12.3	30	9.39	28	-14.4	43	-16.2	42	-11.9	53	-15.4	49	-13	45
4	AH1645	-5.94	22	17.95	25	-13.51	38	-12.35	46	-2.59	36	-18.53	53	-6.12	20	-6.74	30	-5.94	21	5.41	37	-9.47	34	-9.51	33	4.16	38	-6.22	34	-3.43	34
5	AH4139	-36.89	54	-3.98	60	-2.19	20	-6.84	33	-4.81	39	-17.62	52	-47.5	58	-14.7	39	-19.3	42	-30	59	-21.7	51	-31.4	52	5.18	33	-21.7	53	-21.4	52
6	AH4272	-6.69	24	11.39	38	-21.56	42	-4.5	29	-5.16	40	-0.32	15	-21.2	39	-14.9	41	-36	55	-10.5	54	-9.83	37	-5.75	24	-2.01	46	-13.1	47	-12.6	44
7	AH5158	-16.02	34	13.05	33	-1.83	17	-0.97	24	0.94	28	2.09	8	-21.2	38	-18.3	52	-14.6	33	-10	53	3.95	11	-19.2	45	5.91	31	-9.12	41	-6.95	38
8	BH 417202	12.64	3	36.84	5	16.6	5	0.81	18	17.02	3	-3.42	28	-24	44	-4.38	22	11.77	3	1.41	44	-5.07	27	-7.71	30	12.64	19	-2.25	24	4.28	10
9	BRMH-17068	-32.36	52	7.55	41	-27.57	48	-9.88	39	-9.51	47	-2.65	24	-16.5	33	-25.1	58	-14.8	35	7.37	32	-7.83	31	-12.3	36	13.99	14	-7.44	38	-10.8	42
10	CMH-15-006	-80.9	60	-1.35	57	-77.97	60	-73.52	59	-53.29	60	-39.17	60	-77	60	0.69	13	-66.7	59	-16.5	56	-49.3	60	-57.5	59	-26.6	58	-40.6	59	-37.9	59
11	CMH-15-008	-52.03	58	5.07	45	-62.14	59	-85.13	60	-51.77	59	-29.01	59	-73.3	59	-17.8	49	-82	60	-36.4	60	-44.3	59	-59.3	60	-34.2	60	-45.4	60	-47.2	60
12	CP 555	5.64	5	16.55	29	-8.91	31	0.42	19	4.49	22	-0.97	19	-14.9	31	-1.79	16	-11.3	28	14.23	21	16.11	1	2.56	7	7.69	27	2.32	9	2.61	12
13	CP 802	-23.37	45	-0.88	56	-9.92	34	-15.34	48	-10.95	49	6.54	4	-18.9	34	-12.9	36	-4.13	17	13.62	22	1.21	15	-27.2	48	0.6	41	-6.74	36	-9.87	40
14	DKC 9207	-17.95	39	26.2	13	-0.43	16	10.14	2	13.12	6	-3.11	26	-1.26	17	-15.6	43	-9.9	26	23.49	5	-7.64	30	0.33	10	4.36	37	-1.28	20	4.64	9
15	GH16352	-20.65	41	11.96	36	-22.7	46	-11.32	44	-6.77	41	-14.76	45	-22.8	41	-32.9	60	-17.2	39	18.62	16	-11.6	39	-24.1	47	-10.4	52	-16	51	-15	48
16	GK 3218	-4.22	18	6.28	42	-13.43	37	4.72	11	-0.22	32	-4.68	30	-13.2	29	3.33	10	-21.2	44	20.75	11	-9.29	33	-2.64	16	7.3	29	-2.03	22	-2.19	27
17	HMM 1018	-37.17	55	2.19	49	-55.31	57	-32.38	57	-30.32	58	-28.5	58	-42.5	56	-21.5	55	-61.7	58	-20.1	57	-26.2	55	-39.9	58	-34.1	59	-34.4	58	-35.9	58
18	HT 519074	-17.11	38	3.41	48	-9.34	32	9.04	4	2.04	26	-9.22	41	-3.11	18	-16.2	45	-2.51	16	23.08	7	5.25	6	-6.19	27	14.2	13	0.11	17	2.78	11
19	IM12723	25.52	1	18.75	23	-8.19	28	15.33	1	7.64	15	23.81	1	7.69	8	-4.43	23	9.41	4	41.5	1	-4.63	24	18.77	1	2.62	40	8.85	2	8.52	2
20	IMHSB-19K-12	-18.21	40	-0.36	54	-22.49	45	-3.61	27	-7.03	42	-2.61	23	-42.2	55	-14.2	38	-18.4	41	6.6	34	-9.59	35	-11.7	35	-2.49	47	-12.1	45	-15.8	49
21	IMHSB-19K-13	-28.38	50	17.64	26	2.25	12	-9.16	37	0.79	29	-3.18	27	-13.2	28	-10.8	34	-37.3	56	10.25	27	-22.7	52	-17.6	43	-7.68	50	-13.1	46	-13.5	46
22	IMHSB-19K-14	-25.53	47	23.71	17	-24.3	47	-25.95	55	-11.16	50	-9.02	40	-35.8	50	-17.7	48	-23.9	48	-26.7	58	-1.53	21	-39.9	57	-1.61	45	-17.9	52	-17.7	50
23	IMHVS-102	-25.51	46	17.56	27	-16.18	39	-23.18	52	-8.71	46	5.39	5	-20.2	36	2.09	11	-29.3	50	11.68	24	4.33	10	-15.6	41	4.69	35	-4.48	31	-9.02	39
24	JH 17011	-39.99	56	40.84	3	2.55	11	-8.59	36	9.43	9	-6.12	31	-7.73	22	-15.5	42	-23.5	47	-0.84	49	-12	41	-2.96	18	5.47	32	-8.17	40	-2.89	30
25	JH 18056	-20.78	42	20.4	21	-10.44	35	1.72	16	2.7	24	-15.76	50	8.32	7	-21.9	56	3.88	7	15.12	20	-1.27	20	-14.2	39	12.76	17	-2.31	25	-2.27	28
26	JH 18057	-16.77	35	24.66	16	-2.09	19	-0.5	23	7.58	16	-7.99	38	-23.2	43	-5.9	27	-5.01	19	19.34	15	-9.65	36	-8.72	32	5	34	-6.55	35	-2.16	26
27	JH 18087	-4.76	19	8.87	40	-12.26	36	-6.39	32	-1.71	33	-2.2	21	-6.54	21	-16.2	46	-6.63	22	22.64	8	-6.38	29	-7.9	31	15.76	12	-0.94	19	0.15	18
28	JH 18088	-2.93	17	31.19	8	3.27	9	-1.61	25	8.02	13	-14.88	46	1.51	14	11.65	3	6.3	5	13.03	23	-16.2	45	2.68	6	9.09	26	0.94	16	6.65	6
29	JH 18091	-4.82	20	37.59	4	6.92	8	9.54	3	18.68	2	-0.03	14	-39.5	52	-5.75	26	-14.6	34	4.55	39	-7.97	32	-0.54	13	34.7	1	-1.72	21	2.46	14
30	KH 2193	-8.69	26	22.12	18	-1.98	18	-2.86	26	5.5	20	-0.92	17	-12	27	-14.9	40	-4.48	18	5.88	36	4.53	8	-18.1	44	12.01	21	-4.01	29	-5	35

Table No. : 6 (Conti...) **Gain in yield (%) over CMH 08-282**

S. No.	Entry Name	NWPZ										PZ																All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
31	KH 5146	-1.04	12	11.88	37	-4.45	22	5.33	9	5.46	21	-0.94	18	-9.12	23	-31.4	59	-13	31	15.89	18	4.52	9	-1.68	14	9.32	25	-4.1	30	-3.33	32
32	KMH-8322	5.49	7	35.48	6	27.8	1	1.96	15	19.77	1	4.36	7	11.43	4	6.98	6	1.18	11	26.34	4	-11.9	40	3.27	5	20.79	5	8.06	4	10.42	1
33	KMH-8333	2.82	10	27.89	11	14.66	6	-11.01	43	8.24	12	0.57	11	14.77	3	-2.23	18	0.45	12	11.61	25	-4.99	26	-13.3	37	9.88	23	1.56	11	1.4	16
34	MM2424	-1.13	13	21.17	20	1.54	14	6.04	8	8.46	11	6.87	3	-11.2	25	-2.62	20	-11.6	29	0.47	46	4.73	7	-4.11	21	22.23	4	1.07	13	1.6	15
35	NMH 4313	-11.22	29	28.65	10	3.13	10	-4.68	30	7.34	18	1.36	10	9.9	5	-2.31	19	17.27	2	35.47	2	1.27	14	-0.44	12	22.35	3	8.18	3	8.14	4
36	PM 19104L	-12.14	30	6.01	43	-44.11	55	-23.92	53	-19.71	53	-7.22	34	-14.6	30	14.73	1	-5.16	20	-15.5	55	10.18	2	0.78	9	12.33	20	1.07	14	-3.04	31
37	PM 19105 L	14.53	2	12.64	34	16.95	4	7.74	7	11.81	7	-2.73	25	19.37	1	4.26	9	-2.39	15	21.9	9	-4.92	25	-3.08	20	19.51	8	6.04	6	4.66	8
38	PM 19106 L	-2.62	16	25.72	14	-22.2	44	-25.49	54	-11.4	51	-6.43	32	3.2	11	-5.09	25	1.5	9	21.29	10	9.08	3	-7.22	29	19.79	7	3.54	7	-2.12	25
39	PM 19107 L	-28.29	49	27.49	12	-7.72	27	4.06	12	8.97	10	4.48	6	-24.2	45	-9.17	32	17.91	1	19.37	14	2.41	13	9.51	3	3.98	39	0.95	15	8.12	5
40	PM 19108 L	5.52	6	-1.75	58	-8.21	29	-3.7	28	-2.23	34	-15.26	48	7.39	9	-15.8	44	4.43	6	6.41	35	7.31	4	16.36	2	12.68	18	3.4	8	2.53	13
41	PM 19109 L	-16.81	36	4.14	47	17.39	3	3.09	14	7.4	17	9.53	2	19.31	2	-0.3	15	1.68	8	7.51	31	6.07	5	-4.31	23	18.1	10	7.76	5	6.2	7
42	PM 19110 L	-7.73	25	14.04	32	-3.97	21	3.52	13	5.77	19	-7.37	35	2.42	13	-4.68	24	-16.8	38	9.2	29	-0.85	18	-11.4	34	7.44	28	-2.21	23	-1.45	24
43	PM 19111 L	-22.11	44	15.75	30	-39.3	52	-5.52	31	-10.39	48	-8.62	39	4.89	10	-2.01	17	-2.32	14	15.44	19	-4.54	23	-5.84	25	22.38	2	2.08	10	-6.01	37
44	QMH-1604	-8.71	27	19.25	22	-42.43	54	-19	49	-13.95	52	-24.92	56	-47.4	57	-14	37	-34.5	54	-3.4	52	-20.1	49	-32.3	53	-12.5	55	-23.2	56	-24.1	55
45	QMH-16101	-25.69	48	-0.41	55	-52.89	56	-14.33	47	-22.28	55	-22.57	55	-39.7	53	-19.8	54	-21.5	45	4.4	40	-26.5	56	-38.9	56	-13.4	56	-22.1	55	-26.5	56
46	QMH-1617	-10.51	28	11.04	39	-21.61	43	-9.83	38	-8.09	44	-16.58	51	-20.3	37	-3.93	21	-25.4	49	8.55	30	-19.5	48	-13.4	38	6.51	30	-10.7	42	-10.4	41
47	QMH-1697	-45.17	57	1.28	50	-56.88	58	-30.13	56	-29.04	56	-19.15	54	-34.6	49	-19.3	53	-31.4	51	2.46	42	-29.3	57	-38.6	55	-23.8	57	-26.1	57	-29.6	57
48	Rasi 6597	-13.56	32	21.7	19	-7.41	26	9.02	5	7.86	14	-11.29	44	-21.4	40	6.48	7	-8.68	24	-2.08	51	-2.56	22	1.88	8	13.36	16	-2.49	26	1.08	17
49	Rasi 70574	-2.15	15	5.46	44	-18.38	40	1.49	17	-2.25	35	-7.42	36	3.04	12	8.32	5	-17.6	40	10.43	26	-6.1	28	-15.4	40	20.13	6	1.37	12	-3.43	33
50	SBMH 1817	-15.39	33	25.03	15	-21.3	41	-11.01	42	-3.55	38	-9.23	42	-32.1	48	1.1	12	-31.9	52	7.21	33	-10.8	38	-28.2	50	13.79	15	-10.9	43	-11.2	43
51	SVMH 1627	-2.04	14	32.73	7	-30.77	50	-22.32	50	-7.24	43	-27.26	57	-41.8	54	-18.1	50	-15.6	36	23.21	6	-38.1	58	-36.6	54	-12.1	54	-22	54	-22.4	53
52	SYN916801	-12.51	31	54.05	1	-5.87	23	0.4	20	13.8	4	2.06	9	8.67	6	12.88	2	1.31	10	33.55	3	3.51	12	9.44	4	19.4	9	10.97	1	8.17	3
53	TMMH 853	-21.75	43	17.04	28	-30.74	49	-10.18	40	-8.25	45	-2.47	22	-28.5	46	-17.6	47	-34.4	53	1.36	45	-15.6	44	-20.7	46	16.56	11	-11.4	44	-13.5	47
54	VNR37650	-54.81	59	12.06	35	-40.97	53	-51.36	58	-29.84	57	-9.67	43	-16	32	-11.4	35	-49.2	57	-0.2	48	-13.4	42	-27.5	49	-5.53	48	-15.7	50	-23.3	54
55	VNR4343	5.22	8	18.39	24	22.96	2	0.36	21	13.22	5	-0.49	16	-23.2	42	-5.9	28	-8.83	25	2.46	43	-24.4	53	-4.19	22	4.67	36	-7.75	39	-2.31	29
56	BIO 9682 (C)	-16.95	37	29.84	9	-5.94	24	-11.61	45	2.52	25	-6.66	33	-3.46	19	8.59	4	-13.7	32	4.14	41	-24.5	54	-3	19	-7.75	51	-5.44	33	-1.29	23
57	CMH 08-282 (C)	0	11	0	52	0	15	0	22	0	31	0	13	0	15	0	14	0	13	0	47	0	17	0	11	0	42	0	18	0	21
58	CMH 08-287 (C)	-5.79	21	42.19	2	1.73	13	-7.66	34	9.44	8	-2.02	20	-11.6	26	-6.52	29	-7.82	23	20.34	12	-21.7	50	-6.06	26	10.93	22	-3.14	27	0.06	19
59	NK6240 (C)	6.88	4	4.71	46	-8.35	30	8.19	6	4.05	23	-4.23	29	-10.3	24	-10.1	33	-10.6	27	20.23	13	-17.7	46	-2.91	17	-7.15	49	-5.34	32	-1.19	22
60	CMH 08-292 (F)	-33.46	53	-0.13	53	-33.19	51	-22.79	51	-19.84	54	-14.94	47	-29	47	5.89	8	-15.9	37	-1.23	50	-18.9	47	-29.7	51	-1.42	44	-13.5	48	-21.2	51

Table No. : 6 (Conti...) **Gain in yield (%) over CMH 08-287** **(Conti...)**

S. No.	Entry Name	CWZ												NEPZ													
		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB		DHOL		RANC		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADV7713	31.22	3	-27.79	47	15.42	8	-13.24	20	-41.22	53	5.71	15	11.69	4	-15.33	32	0.95	12	1.26	31	17.25	6	-0.82	16	2.7	12
2	AH 8072	-9.28	40	9.67	2	-4.22	27	-9.74	17	-16.39	41	-10.13	39	-0.89	17	-1.25	12	-6.17	33	-12	43	-2.84	39	-12.95	28	-5.28	30
3	AH 8753	-11.61	41	-11.31	26	-23.64	46	-21.94	32	-3.61	31	-16.03	42	-17.7	37	-11.78	24	-16.63	46	-12.21	45	-4.8	42	-11.28	26	-13.02	40
4	AH1645	-0.14	33	-8.34	23	-7.21	30	-0.22	11	14.84	18	0.19	26	5.06	13	5.73	7	1.56	10	5.72	25	-5.54	43	-16.37	37	-0.61	19
5	AH4139	-19.26	49	-33.49	52	-46.59	55	-41.55	54	-16.37	40	-29.63	50	-32.86	48	-31.89	58	-24.81	55	-29.96	54	-17.22	55	-35.08	52	-26.26	54
6	AH4272	-23.57	54	-18.42	39	-11.58	36	-42.45	55	-15.02	39	-18.03	46	-21.04	40	-20.69	41	-16.84	47	-6.66	37	-0.5	37	-13.07	29	-12.75	39
7	AH5158	0.87	30	4.68	9	-9.85	33	-19.06	29	-3.28	29	-6.86	38	-3.98	21	-22.66	43	-24.46	54	-6.01	36	4.3	26	-4.34	18	-8.26	34
8	BH 417202	-7.9	39	-16.42	35	-14.31	40	-0.74	12	19.63	12	-3.89	35	12.62	3	6.95	6	-2.73	23	39.9	1	5.75	22	4.5	11	11.95	2
9	BRMH-17068	9.29	16	-0.9	16	-30.91	48	-23.81	35	25.28	7	-3.1	34	-34.33	52	-30.66	57	-14.09	45	3.87	27	-20.97	57	-13.45	31	-20.59	50
10	CMH-15-006	45.37	1	-37.53	56	-77.11	59	-31.47	46	-76.02	60	-33.4	52	-13.67	31	-24.23	46	-27.13	57	-48.37	59	-11.01	52	-29.59	48	-25.97	53
11	CMH-15-008	-57.9	60	-35.39	54	-80.02	60	-32.68	47	-61.45	57	-66.05	60	-46.12	57	-26.91	53	-20.78	53	-53.94	60	-9.49	49	-55.86	60	-36.3	60
12	CP 555	25.3	5	-12.88	29	13.14	10	-6.67	14	-1.94	28	13.17	6	8.22	7	-15.09	31	1.79	8	13.91	12	-9.99	50	-15.78	36	-3.07	25
13	CP 802	7.88	19	7.73	5	-18	42	-39.78	51	8.61	22	-5.36	37	-26.5	45	-25.58	50	-17.48	48	4.43	26	-3.86	40	-15.44	34	-16.43	44
14	DKC 9207	13.95	11	8.04	3	14.63	9	-40.35	52	24.23	8	16.28	5	2.31	14	-22.56	42	-0.82	17	23.88	7	3.79	27	1.83	13	3.23	8
15	GH16352	-23.37	53	-15.34	33	-22.57	45	9.91	4	-8.35	35	-19.56	47	-21.04	39	-1.45	13	-9.73	40	-21.32	51	-7.94	46	-23.41	42	-15.41	43
16	GK 3218	9.53	15	-38.9	58	-3.62	24	-20.12	30	15.77	16	6.26	14	5.47	11	-24.75	48	-7.84	38	-8.5	39	0.64	34	-9.94	24	-7.72	33
17	HMM 1018	-45.14	58	-4.25	19	-59.62	58	-17.64	27	-48.49	56	-50.58	59	-51.99	60	-28.81	55	-31.54	58	-31.2	55	-14.18	53	-34.68	51	-33.48	59
18	HT 519074	1.61	28	7.2	6	-7.23	31	-13.74	21	26.25	6	1.73	21	-11.04	28	7.21	4	-2.22	21	39.16	3	17.26	5	9.82	4	8.49	5
19	IM12723	35.55	2	-24.47	43	29.66	1	2.06	8	14.96	17	23.14	2	-1.99	20	4.56	8	1.68	9	23.42	8	2.27	31	-19.39	41	0.99	15
20	IMHSB-19K-12	-22.76	51	-18.39	38	-33.38	50	-14.22	22	-46.56	54	-33.52	53	-13.07	30	-23.42	45	-13.31	43	-15.07	47	-10.29	51	-31.9	50	-16.99	45
21	IMHSB-19K-13	-16.01	45	-1.99	18	-29.73	47	3.71	7	-13.51	38	-21.84	48	-28.44	46	-26.01	51	-20.54	52	-17.59	49	5.09	24	-27.47	46	-18.03	49
22	IMHSB-19K-14	-24.65	55	-38.42	57	-34.71	51	-25.5	40	-19.88	47	-30.01	51	-22.64	41	-17.27	33	-2.89	24	-7.33	38	10.81	13	-45.75	56	-14.51	42
23	IMHVS-102	-18.33	46	-27.46	45	-11.76	37	13.5	2	-27.76	50	-17.35	44	-18.49	38	-14.49	30	-6.71	36	-14.04	46	0.16	35	-4.31	17	-11.28	37
24	JH 17011	13.8	12	-0.97	17	5.41	17	-26.16	41	-18.51	44	2.07	19	-5.56	22	-19	35	-0.43	16	9.06	19	3.16	29	-10.07	25	-3.93	27
25	JH 18056	-11.82	42	31.11	1	-4.01	25	0.74	9	28.73	4	-1.85	32	-1.13	18	17.84	1	-0.34	15	-9.81	41	-2.79	38	-27.32	45	-5.18	29
26	JH 18057	-6.64	37	-16.52	36	-4.18	26	-25.31	38	19.46	13	0.71	24	-17.18	36	11.92	3	6.88	3	8.95	20	-6.58	45	-13.53	32	-1.81	21
27	JH 18087	0.01	31	1.45	14	2.6	20	14.88	1	4.58	24	1.98	20	6.54	10	-4.95	15	-6.97	37	2.85	29	5.3	23	9.36	5	2.81	11
28	JH 18088	5.17	22	7.88	4	16.32	7	-18.64	28	22.04	9	11.56	8	9.45	6	-0.39	11	1.39	11	24.21	6	23.47	3	7.28	7	12.74	1
29	JH 18091	15.38	8	3.57	10	-5.36	28	8.68	5	14.11	19	6.31	13	-7.39	23	-9.17	18	-3.77	28	13.71	13	6.71	20	-16.45	38	-2.29	22
30	KH 2193	4.91	23	2.05	12	-13.95	39	-27.42	42	31.26	3	4.03	17	-33.55	49	-18.2	34	-19.39	51	-12.09	44	-8.05	47	-8.43	23	-17.28	47

Table No. : 6 (Conti...) **Gain in yield (%) over CMH 08-287** **(Conti...)**

S. No.	Entry Name	CWZ												NEPZ											
		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB		DHOL		RANC		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
31	KH 5146	11.04	14	-13.06	30	9.52	13	-54.44	59	-21.29	49	0.71	25	-26.26	44	16.66	2	-9.97	41	-4.56	34	-14.48	54	-13.09	30	-9.1	35
32	KMH-8322	14.05	10	-32.98	50	-3.58	23	-15.16	24	19.31	14	9	9	18.25	2	3.44	9	-4.69	31	11.55	17	13.45	8	2.05	12	9.81	4
33	KMH-8333	2.3	27	4.98	8	26.89	4	-27.51	43	-5.75	33	7.45	12	10.54	5	-11	22	-3.66	27	1.69	30	-22.83	58	-12.36	27	-5.67	31
34	MM2424	8.75	17	-23.11	41	-20.17	44	10.81	3	21.34	10	-1.72	31	0.75	15	-9.53	20	-13.8	44	12.51	15	7.15	18	6.15	9	0.41	16
35	NMH 4313	5.62	21	-8.28	22	29.01	2	-14.64	23	26.49	5	17.83	4	-1.37	19	7.21	5	3.31	6	20.7	10	-6.2	44	4.95	10	4.08	7
36	PM 19104L	12.46	13	-31.82	49	-10.3	35	-28.01	44	21	11	5.01	16	-16.27	35	-9.51	19	-0.2	14	7.6	21	26.61	2	-23.63	43	-2.9	24
37	PM 19105 L	14.48	9	-17.64	37	11.92	11	-25.23	36	-3.48	30	8.19	11	-24.64	43	-11.36	23	-3.93	29	0.2	32	16.05	7	6.74	8	-3.28	26
38	PM 19106 L	4.25	25	2.03	13	8.55	15	-48.19	58	3.31	25	1.48	23	-31.85	47	-5.19	16	5.74	4	6.28	24	9.63	15	-25.44	44	-7.2	32
39	PM 19107 L	26.45	4	-5.47	20	27.94	3	-20.68	31	18.35	15	25.03	1	6.91	9	-10.36	21	-4.85	32	39.88	2	12.93	10	19.2	2	10.86	3
40	PM 19108 L	18.09	6	-11.92	27	9.56	12	-28.2	45	8.62	21	12.25	7	-9.05	26	-22.67	44	-1.91	20	24.55	4	11.48	12	0.2	14	-0.39	18
41	PM 19109 L	8.29	18	-66.51	60	25.73	5	7.05	6	34.5	2	19.88	3	-15.78	34	-19.12	36	-1.18	19	20.49	11	3.36	28	-5.35	19	-3.96	28
42	PM 19110 L	3.21	26	-27.64	46	-13.26	38	-8.96	16	5.1	23	-4.16	36	5.15	12	-12.63	26	-18.33	49	3.17	28	12.19	11	-7.12	22	-2.55	23
43	PM 19111 L	-2.16	34	-10.21	25	-1.24	22	-22.8	33	-5.11	32	-2.43	33	-42.17	56	-26.05	52	-6.25	34	-5.02	35	20.92	4	-44.13	55	-17.73	48
44	QMH-1604	-18.97	47	-36.65	55	-34.85	52	-44.38	56	-28.34	51	-27.74	49	-38.33	55	-42.51	60	-25.77	56	-17.37	48	-24.54	60	-29.1	47	-29.25	56
45	QMH-16101	-25.63	56	-35.36	53	-49.48	56	-45.06	57	-29.57	52	-38.45	57	-35.12	53	-19.8	38	-34.1	59	-33.47	56	3.14	30	-53.3	59	-29.79	57
46	QMH-1617	-13.23	43	-14.5	31	-5.62	29	-40.36	53	-19.26	45	-12.87	41	-23.42	42	-24.49	47	-18.93	50	13.41	14	13.15	9	-7.03	21	-9.64	36
47	QMH-1697	-19.13	48	-7.71	21	-36.68	53	-12.04	19	-62.29	58	-36.78	56	-48.37	59	-29.59	56	-42.44	60	-22.15	52	2.26	32	-41.59	54	-31.14	58
48	Rasi 6597	15.59	7	-27.88	48	-9.34	32	-5.58	13	10.35	20	4.02	18	-15.53	33	-20.66	40	-3.65	26	-9.51	40	6.26	21	48.57	1	1.54	13
49	Rasi 70574	4.78	24	-43.66	59	4.06	19	-7.28	15	-11.67	37	-0.19	28	-15.49	32	-13.75	28	-2.42	22	-18.56	50	0.9	33	-35.13	53	-13.05	41
50	SBMH 1817	-15.19	44	-25.41	44	-17.07	41	-16.17	25	-18.29	43	-16.5	43	-12.48	29	-14.27	29	-1.03	18	-43.62	58	10.22	14	-18.81	39	-12.73	38
51	SVMH 1627	-50.26	59	-33.13	51	-50.86	57	-35.42	48	-17.82	42	-41.91	58	-33.69	50	-20.33	39	-12.2	42	10.48	18	-24.19	59	-46.45	57	-21.19	51
52	SYN916801	0.96	29	2.07	11	6.43	16	-16.99	26	2.23	26	1.56	22	29.25	1	-27.63	54	5.39	5	7.15	22	7.01	19	-5.65	20	4.31	6
53	TMMH 853	-23.32	52	-15.29	32	-10.13	34	-36.68	50	-19.33	46	-17.72	45	-34.25	51	-13.74	27	-8.57	39	-11.15	42	-4.38	41	-18.87	40	-17.09	46
54	VNR37650	-5.52	36	-12.1	28	-39.32	54	-36.29	49	-72.55	59	-35.82	55	-38.07	54	-32.13	59	7.28	2	-23.33	53	-20.31	56	-30.48	49	-24.22	52
55	VNR4343	-3.59	35	-19.63	40	-19.75	43	-25.38	39	-7.06	34	-12.23	40	-9.91	27	-1.7	14	2.31	7	12.36	16	8.01	17	9	6	2.86	10
56	BIO 9682 (C)	-20.83	50	-24.36	42	8.86	14	-25.26	37	50.69	1	8.25	10	8.15	8	-25.23	49	-3.45	25	24.26	5	4.53	25	-15.77	35	-1.42	20
57	CMH 08-282 (C)	-7.82	38	5.09	7	19.94	6	-56.83	60	-9.99	36	-1.63	29	-7.69	24	-5.51	17	7.4	1	23.02	9	8.15	16	-15.27	33	1.28	14
58	CMH 08-287 (C)	0	32	0	15	0	21	0	10	0	27	0	27	0	16	0	10	0	13	0	33	0	36	0	15	0	17
59	NK6240 (C)	7.04	20	-15.71	34	4.84	18	-23.46	34	-20.86	48	-1.72	30	-8.74	25	-19.45	37	-4.06	30	6.59	23	27.68	1	9.96	3	3.12	9
60	CMH 08-292 (F)	-30.28	57	-8.82	24	-32.61	49	-10.72	18	-46.76	55	-35.32	54	-47.83	58	-11.89	25	-6.67	35	-34.45	57	-9.34	48	-50.47	58	-26.51	55

Table No. : 6 (Conti...) **Gain in yield (%) over CMH 08-287**

S. No.	Entry Name	NWPZ										PZ																All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADV7713	9.48	9	-31.03	59	9.44	7	-0.13	35	-7.97	30	2.07	12	11.97	16	-12.41	51	-13.56	43	-13.05	38	29.18	16	3.94	15	-10.38	43	-0.42	28	-0.05	20
2	AH 8072	-0.52	23	-29.23	51	-8.41	25	13.59	10	-7.66	27	-5.58	37	-28.79	51	-1.4	31	-17	46	-3.05	17	26.62	19	-0.14	28	-0.98	24	-4.07	37	-5.89	36
3	AH 8753	-25.3	51	-18.77	31	-11.43	33	-3.57	41	-11.7	37	-13.8	49	-9.03	35	-17.49	57	-4.81	30	-9.09	28	9.35	43	-10.77	42	-20.6	53	-12.7	49	-13.09	45
4	AH1645	-0.15	22	-17.05	25	-14.98	38	-5.07	46	-10.99	36	-16.85	53	6.2	20	-0.23	30	2.03	21	-12.41	37	15.65	34	-3.67	33	-6.1	38	-3.18	34	-3.48	34
5	AH4139	-33	54	-32.47	60	-3.85	20	0.89	33	-13.02	39	-15.92	52	-40.64	58	-8.77	39	-12.49	42	-41.79	59	-0.01	51	-26.98	52	-5.18	33	-19.19	53	-21.43	52
6	AH4272	-0.95	24	-21.67	38	-22.9	42	3.43	29	-13.33	40	1.74	15	-10.81	39	-8.96	41	-30.53	55	-25.58	54	15.18	37	0.33	24	-11.66	46	-10.31	47	-12.64	44
7	AH5158	-10.85	34	-20.5	33	-3.5	17	7.25	24	-7.76	28	4.2	8	-10.8	38	-12.65	52	-7.32	33	-25.22	53	32.79	11	-14.01	45	-4.52	31	-6.18	41	-7	38
8	BH 417202	19.56	3	-3.77	5	14.62	5	9.18	18	6.93	3	-1.43	28	-14.03	44	2.29	22	21.25	3	-15.73	44	21.26	27	-1.76	30	1.55	19	0.91	24	4.22	10
9	BRMH-17068	-28.2	52	-24.36	41	-28.8	48	-2.4	39	-17.31	47	-0.64	24	-5.52	33	-19.88	58	-7.57	35	-10.77	32	17.74	31	-6.66	36	2.76	14	-4.44	38	-10.87	42
10	CMH-15-006	-79.72	60	-30.62	57	-78.34	60	-71.32	59	-57.32	60	-37.91	60	-73.97	60	7.71	13	-63.85	59	-30.59	56	-35.23	60	-54.75	59	-33.86	58	-38.71	59	-37.98	59
11	CMH-15-008	-49.08	58	-26.11	45	-62.79	59	-83.9	60	-55.93	59	-27.54	59	-69.78	59	-12.05	49	-80.49	60	-47.11	60	-28.86	59	-56.68	60	-40.72	60	-43.65	60	-47.19	60
12	CP 555	12.14	5	-18.03	29	-10.46	31	8.75	19	-4.52	22	1.08	19	-3.7	31	5.06	16	-3.72	28	-5.08	21	48.32	1	9.18	7	-2.92	27	5.63	9	2.55	12
13	CP 802	-18.65	45	-30.29	56	-11.45	34	-8.32	48	-18.63	49	8.74	4	-8.25	34	-6.86	36	4	17	-5.58	22	29.28	15	-22.53	48	-9.31	41	-3.72	36	-9.93	40
14	DKC 9207	-12.91	39	-11.25	13	-2.12	16	19.28	2	3.37	6	-1.11	26	11.7	17	-9.74	43	-2.26	26	2.62	5	17.98	30	6.81	10	-5.92	37	1.92	20	4.58	9
15	GH16352	-15.77	41	-21.26	36	-24.01	46	-3.96	44	-14.81	41	-13	45	-12.69	41	-28.24	60	-10.18	39	-1.43	16	12.9	39	-19.16	47	-19.19	52	-13.31	51	-15.08	48
16	GK 3218	1.67	18	-25.26	42	-14.9	37	13.41	11	-8.83	32	-2.71	30	-1.77	29	10.54	10	-14.51	44	0.34	11	15.87	33	3.65	16	-3.27	29	1.14	22	-2.24	27
17	HMM 1018	-33.3	55	-28.13	49	-56.07	57	-26.76	57	-36.32	58	-27.02	58	-34.92	56	-16.04	55	-58.41	58	-33.59	57	-5.75	55	-36.04	58	-40.62	59	-32.29	58	-35.96	58
18	HT 519074	-12.01	38	-27.27	48	-10.88	32	18.09	4	-6.76	26	-7.34	41	9.61	18	-10.34	45	5.75	16	2.28	7	34.45	6	-0.14	27	2.95	13	3.36	17	2.72	11
19	IM12723	33.24	1	-16.48	23	-9.75	28	24.91	1	-1.64	15	26.37	1	21.83	8	2.23	23	18.69	4	17.58	1	21.83	24	26.43	1	-7.49	40	12.38	2	8.46	2
20	IMHSB-19K-12	-13.18	40	-29.93	54	-23.8	45	4.39	27	-15.05	42	-0.6	23	-34.58	55	-8.26	38	-11.46	41	-11.41	34	15.49	35	-6.03	35	-12.09	47	-9.22	45	-15.82	49
21	IMHSB-19K-13	-23.98	50	-17.27	26	0.51	12	-1.62	37	-7.9	29	-1.19	27	-1.74	28	-4.62	34	-31.99	56	-8.38	27	-1.31	52	-12.24	43	-16.77	50	-10.26	46	-13.5	46
22	IMHSB-19K-14	-20.95	47	-13	17	-25.58	47	-19.8	55	-18.82	50	-7.14	40	-27.38	50	-11.94	48	-17.41	48	-39.08	58	25.79	21	-36	57	-11.3	45	-15.24	52	-17.75	50
23	IMHVS-102	-20.93	46	-17.32	27	-17.61	39	-16.8	52	-16.58	46	7.56	5	-9.7	36	9.21	11	-23.32	50	-7.2	24	33.27	10	-10.11	41	-5.62	35	-1.38	31	-9.08	39
24	JH 17011	-36.29	56	-0.95	3	0.81	11	-1	36	0	9	-4.18	31	4.38	22	-9.61	42	-17.05	47	-17.6	49	12.42	41	3.3	18	-4.92	32	-5.19	40	-2.94	30
25	JH 18056	-15.9	42	-15.32	21	-11.96	35	10.16	16	-6.16	24	-14.02	50	22.54	7	-16.5	56	12.68	7	-4.33	20	26.12	20	-8.7	39	1.65	17	0.85	25	-2.33	28
26	JH 18057	-11.65	35	-12.33	16	-3.75	19	7.76	23	-1.69	16	-6.09	38	-13.1	43	0.66	27	3.05	19	-0.83	15	15.41	36	-2.83	32	-5.34	34	-3.53	35	-2.22	26
27	JH 18087	1.09	19	-23.43	40	-13.75	36	1.38	32	-10.19	33	-0.19	21	5.73	21	-10.39	46	1.29	22	1.91	8	19.59	29	-1.95	31	4.36	12	2.26	19	0.09	18
28	JH 18088	3.04	17	-7.74	8	1.52	9	6.55	25	-1.3	13	-13.12	46	14.83	14	19.43	3	15.31	5	-6.08	23	7.08	45	9.31	6	-1.66	26	4.2	16	6.59	6
29	JH 18091	1.03	20	-3.24	4	5.1	8	18.63	3	8.44	2	2.04	14	-31.53	52	0.82	26	-7.37	34	-13.12	39	17.55	32	5.88	13	21.43	1	1.47	21	2.4	14
30	KH 2193	-3.07	26	-14.11	18	-3.65	18	5.2	26	-3.59	20	1.13	17	-0.4	27	-8.94	40	3.62	18	-12.01	36	33.52	8	-12.83	44	0.98	21	-0.91	29	-5.05	35

Table No. : 6 (Conti...) **Gain in yield (%) over CMH 08-287**

S. No.	Entry Name	NWPZ										PZ																All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
31	KH 5146	5.04	12	-21.32	37	-6.07	22	14.07	9	-3.63	21	1.11	18	2.81	23	-26.61	59	-5.66	31	-3.7	18	33.51	9	4.67	14	-1.45	25	-0.99	30	-3.38	32
32	KMH-8322	11.97	7	-4.72	6	25.63	1	10.42	15	9.45	1	6.52	7	26.05	4	14.44	6	9.76	11	4.98	4	12.5	40	9.93	5	8.89	5	11.56	4	10.35	1
33	KMH-8333	9.15	10	-10.06	11	12.71	6	-3.63	43	-1.1	12	2.64	11	29.83	3	4.59	18	8.97	12	-7.26	25	21.36	26	-7.72	37	-0.94	23	4.84	11	1.34	16
34	MM2424	4.95	13	-14.78	20	-0.18	14	14.84	8	-0.89	11	9.08	3	0.47	25	4.17	20	-4.13	29	-16.51	46	33.78	7	2.08	21	10.19	4	4.34	13	1.54	15
35	NMH 4313	-5.76	29	-9.53	10	1.38	10	3.23	30	-1.91	18	3.45	10	24.32	5	4.5	19	27.21	2	12.58	2	29.36	14	5.98	12	10.3	3	11.68	3	8.08	4
36	PM 19104L	-6.74	30	-25.44	43	-45.06	55	-17.61	53	-26.63	53	-5.3	34	-3.37	30	22.73	1	2.88	20	-29.77	55	40.74	2	7.29	9	1.27	20	4.34	14	-3.1	31
37	PM 19105 L	21.58	2	-20.78	34	14.96	4	16.68	7	2.17	7	-0.72	25	35.04	1	11.53	9	5.89	15	1.3	9	21.46	25	3.18	20	7.74	8	9.47	6	4.6	8
38	PM 19106 L	3.37	16	-11.59	14	-23.52	44	-19.3	54	-19.03	51	-4.49	32	16.74	11	1.53	25	10.1	9	0.79	10	39.34	3	-1.23	29	7.99	7	6.9	7	-2.17	25
39	PM 19107 L	-23.88	49	-10.34	12	-9.29	27	12.69	12	-0.43	10	6.64	6	-14.29	45	-2.84	32	27.91	1	-0.81	14	30.82	13	16.58	3	-6.26	39	4.21	15	8.06	5
40	PM 19108 L	12.01	6	-30.91	58	-9.77	29	4.29	28	-10.66	34	-13.51	48	21.49	9	-9.95	44	13.28	6	-11.57	35	37.07	4	23.87	2	1.58	18	6.75	8	2.47	13
41	PM 19109 L	-11.69	36	-26.76	47	15.4	3	11.64	14	-1.86	17	11.79	2	34.98	2	6.65	15	10.3	8	-10.66	31	35.5	5	1.87	23	6.47	10	11.25	5	6.14	7
42	PM 19110 L	-2.06	25	-19.8	32	-5.6	21	12.11	13	-3.35	19	-5.46	35	15.86	13	1.97	24	-9.72	38	-9.26	29	26.65	18	-5.72	34	-3.14	28	0.95	23	-1.51	24
43	PM 19111 L	-17.32	44	-18.6	30	-40.33	52	2.32	31	-18.11	48	-6.73	39	18.66	10	4.82	17	5.97	14	-4.07	19	21.94	23	0.24	25	10.33	2	5.39	10	-6.07	37
44	QMH-1604	-3.1	27	-16.13	22	-43.41	54	-12.28	49	-21.37	52	-23.37	56	-40.54	57	-8	37	-28.96	54	-19.73	52	2.09	49	-27.89	53	-21.1	55	-20.68	56	-24.1	55
45	QMH-16101	-21.12	48	-29.96	55	-53.69	56	-7.22	47	-28.98	55	-20.97	55	-31.73	53	-14.2	54	-14.8	45	-13.24	40	-6.12	56	-34.99	56	-21.93	56	-19.54	55	-26.58	56
46	QMH-1617	-5	28	-21.91	39	-22.94	43	-2.35	38	-16.02	44	-14.86	51	-9.85	37	2.77	21	-19.05	49	-9.8	30	2.9	48	-7.83	38	-3.98	30	-7.76	42	-10.46	41
47	QMH-1697	-41.8	57	-28.77	50	-57.61	58	-24.33	56	-35.16	56	-17.48	54	-26.05	49	-13.63	53	-25.54	51	-14.85	42	-9.67	57	-34.65	55	-31.3	57	-23.7	57	-29.66	57
48	Rasi 6597	-8.24	32	-14.41	19	-8.99	26	18.07	5	-1.44	14	-9.45	44	-11.03	40	13.91	7	-0.94	24	-18.63	51	24.46	22	8.46	8	2.19	16	0.67	26	1.03	17
49	Rasi 70574	3.87	15	-25.83	44	-19.77	40	9.92	17	-10.68	35	-5.5	36	16.57	12	15.87	5	-10.62	40	-8.23	26	19.95	28	-9.99	40	8.3	6	4.65	12	-3.48	33
50	SBMH 1817	-10.18	33	-12.07	15	-22.64	41	-3.62	42	-11.86	38	-7.35	42	-23.17	48	8.15	12	-26.13	52	-10.91	33	13.89	38	-23.54	50	2.58	15	-8.04	43	-11.2	43
51	SVMH 1627	3.99	14	-6.65	7	-31.94	50	-15.87	50	-15.24	43	-25.76	57	-34.16	54	-12.41	50	-8.44	36	2.38	6	-20.88	58	-32.54	54	-20.74	54	-19.51	54	-22.46	53
52	SYN916801	-7.13	31	8.34	1	-7.47	23	8.73	20	3.99	4	4.17	9	22.94	6	20.75	2	9.9	10	10.98	3	32.22	12	16.5	4	7.64	9	14.56	1	8.1	3
53	TMMH 853	-16.94	43	-17.69	28	-31.92	49	-2.72	40	-16.16	45	-0.46	22	-19.14	46	-11.88	47	-28.84	53	-15.77	45	7.88	44	-15.61	46	5.08	11	-8.58	44	-13.52	47
54	VNR37650	-52.03	59	-21.19	35	-41.97	53	-47.33	58	-35.89	57	-7.8	43	-4.95	32	-5.23	35	-44.89	57	-17.07	48	10.62	42	-22.77	49	-14.83	48	-12.95	50	-23.36	54
55	VNR4343	11.69	8	-16.74	24	20.88	2	8.69	21	3.46	5	1.57	16	-13.07	42	0.66	28	-1.1	25	-14.86	43	-3.38	53	1.99	22	-5.64	36	-4.76	39	-2.37	29
56	BIO 9682 (C)	-11.84	37	-8.69	9	-7.54	24	-4.27	45	-6.32	25	-4.73	33	9.22	19	16.16	4	-6.39	32	-13.46	41	-3.55	54	3.26	19	-16.83	51	-2.38	33	-1.34	23
57	CMH 08-282 (C)	6.15	11	-29.67	52	-1.7	15	8.3	22	-8.62	31	2.07	13	13.13	15	6.97	14	8.48	13	-16.9	47	27.74	17	6.46	11	-9.85	42	3.24	18	-0.06	21
58	CMH 08-287 (C)	0	21	0	2	0	13	0	34	0	8	0	20	0	26	0	29	0	23	0	12	0	50	0	26	0	22	0	27	0	19
59	NK6240 (C)	13.46	4	-26.36	46	-9.91	30	17.17	6	-4.92	23	-2.25	29	1.48	24	-3.81	33	-3.01	27	-0.09	13	5.14	46	3.35	17	-16.29	49	-2.28	32	-1.25	22
60	CMH 08-292 (F)	-29.37	53	-29.77	53	-34.33	51	-16.38	51	-26.75	54	-13.18	47	-19.62	47	13.28	8	-8.79	37	-17.92	50	3.56	47	-25.13	51	-11.13	44	-10.65	48	-21.28	51

Table No. : 6 (Conti...) **Gain in yield (%) over NK 6240** **(Conti...)**

S. No.	Entry Name	CWZ												NEPZ													
		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB		DHOL		RANC		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADV7713	22.59	3	-14.3	47	10.1	8	13.35	20	-25.7	53	7.55	15	22.38	4	5.12	32	5.22	12	-5.01	31	-8.17	6	-9.8	16	-0.4	12
2	AH 8072	-15.24	40	30.11	2	-8.64	27	17.91	17	5.65	41	-8.56	39	8.59	17	22.6	12	-2.2	33	-17.4	43	-23.9	39	-20.8	28	-8.15	30
3	AH 8753	-17.42	41	5.22	26	-27.2	46	1.98	32	21.79	31	-14.6	42	-9.83	37	9.52	24	-13.1	46	-17.6	45	-25.4	42	-19.3	26	-15.7	40
4	AH1645	-6.7	33	8.75	23	-11.5	30	30.36	11	45.1	18	1.94	26	15.11	13	31.26	7	5.86	10	-0.82	25	-26	43	-23.9	37	-3.62	19
5	AH4139	-24.57	49	-21.1	52	-49.1	55	-23.6	54	5.67	40	-28.4	50	-26.4	48	-15.4	58	-21.6	55	-34.3	54	-35.2	55	-41	52	-28.5	54
6	AH4272	-28.6	54	-3.21	39	-15.7	36	-24.8	55	7.38	39	-16.6	46	-13.5	40	-1.53	41	-13.3	47	-12.4	37	-22.1	37	-20.9	29	-15.4	39
7	AH5158	-5.76	30	24.2	9	-14	33	5.74	29	22.21	29	-5.23	38	5.21	21	-3.98	43	-21.3	54	-11.8	36	-18.3	26	-13	18	-11	34
8	BH 417202	-13.95	39	-0.83	35	-18.3	40	29.68	12	51.16	12	-2.21	35	23.4	3	32.78	6	1.39	23	31.25	1	-17.2	22	-4.97	11	8.56	2
9	BRMH-17068	2.1	16	17.58	16	-34.1	48	-0.46	35	58.31	7	-1.41	34	-28	52	-13.9	57	-10.5	45	-2.56	27	-38.1	57	-21.3	31	-23	50
10	CMH-15-006	35.82	1	-25.9	56	-78.2	59	-10.5	46	-69.7	60	-32.2	52	-5.4	31	-5.93	46	-24	57	-51.6	59	-30.3	52	-36	48	-28.2	53
11	CMH-15-008	-60.67	60	-23.4	54	-80.9	60	-12.1	47	-51.3	57	-65.5	60	-41	57	-9.26	53	-17.4	53	-56.8	60	-29.1	49	-59.9	60	-38.2	60
12	CP 555	17.07	5	3.36	29	7.92	10	21.93	14	23.91	28	15.15	6	18.58	7	5.41	31	6.1	8	6.86	12	-29.5	50	-23.4	36	-6.01	25
13	CP 802	0.78	19	27.81	5	-21.8	42	-21.3	51	37.24	22	-3.71	37	-19.5	45	-7.61	50	-14	48	-2.03	26	-24.7	40	-23.1	34	-19	44
14	DKC 9207	6.46	11	28.18	3	9.34	9	-22.1	52	56.97	8	18.31	5	12.1	14	-3.85	42	3.38	17	16.22	7	-18.7	27	-7.39	13	0.1	8
15	GH16352	-28.41	53	0.45	33	-26.1	45	43.58	4	15.81	35	-18.2	47	-13.5	39	22.35	13	-5.91	40	-26.2	51	-27.9	46	-30.3	42	-18	43
16	GK 3218	2.33	15	-27.5	58	-8.07	24	4.36	30	46.29	16	8.12	14	15.57	11	-6.57	48	-3.94	38	-14.2	39	-21.2	34	-18.1	24	-10.5	33
17	HMM 1018	-48.75	58	13.6	19	-61.5	58	7.6	27	-34.9	56	-49.7	59	-47.4	60	-11.6	55	-28.6	58	-35.5	55	-32.8	53	-40.6	51	-35.5	59
18	HT 519074	-5.07	28	27.19	6	-11.5	31	12.69	21	59.53	6	3.51	21	-2.53	28	33.1	4	1.92	21	30.55	3	-8.16	5	-0.13	4	5.21	5
19	IM12723	26.64	2	-10.4	43	23.68	1	33.33	8	45.26	17	25.29	2	7.39	20	29.81	8	5.98	9	15.78	8	-19.9	31	-26.7	41	-2.07	15
20	IMHSB-19K-12	-27.84	51	-3.17	38	-36.5	50	12.06	22	-32.5	54	-32.4	53	-4.75	30	-4.93	45	-9.64	43	-20.3	47	-29.7	51	-38.1	50	-19.5	45
21	IMHSB-19K-13	-21.53	45	16.29	18	-33	47	35.49	7	9.29	38	-20.5	48	-21.6	46	-8.14	51	-17.2	52	-22.7	49	-17.7	24	-34	46	-20.5	49
22	IMHSB-19K-14	-29.61	55	-26.9	57	-37.7	51	-2.67	40	1.24	47	-28.8	51	-15.2	41	2.71	33	1.22	24	-13.1	38	-13.2	13	-50.7	56	-17.1	42
23	IMHVS-102	-23.7	46	-13.9	45	-15.8	37	48.28	2	-8.72	50	-15.9	44	-10.7	38	6.16	30	-2.76	36	-19.4	46	-21.6	35	-13	17	-14	37
24	JH 17011	6.32	12	17.49	17	0.54	17	-3.53	41	2.97	44	3.86	19	3.48	22	0.57	35	3.79	16	2.31	19	-19.2	29	-18.2	25	-6.83	27
25	JH 18056	-17.61	42	55.55	1	-8.44	25	31.61	9	62.67	4	-0.14	32	8.34	18	46.3	1	3.88	15	-15.4	41	-23.9	38	-33.9	45	-8.05	29
26	JH 18057	-12.78	37	-0.95	36	-8.6	26	-2.42	38	50.95	13	2.47	24	-9.25	36	38.95	3	11.41	3	2.21	20	-26.8	45	-21.4	32	-4.78	21
27	JH 18087	-6.57	31	20.36	14	-2.13	20	50.08	1	32.14	24	3.76	20	16.74	10	18.01	15	-3.04	37	-3.51	29	-17.5	23	-0.54	5	-0.3	11
28	JH 18088	-1.74	22	27.99	4	10.95	7	6.3	28	54.21	9	13.5	8	19.93	6	23.66	11	5.68	11	16.52	6	-3.29	3	-2.44	7	9.33	1
29	JH 18091	7.8	8	22.88	10	-9.72	28	41.99	5	44.19	19	8.16	13	1.48	23	12.77	18	0.3	28	6.68	13	-16.4	20	-24	38	-5.24	22
30	KH 2193	-1.98	23	21.07	12	-17.9	39	-5.18	42	65.86	3	5.84	17	-27.2	49	1.55	34	-16	51	-17.5	44	-28	47	-16.7	23	-19.8	47

Table No. : 6 (Conti...) **Gain in yield (%) over NK 6240** **(Conti...)**

S. No.	Entry Name	CWZ												NEPZ													
		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB		DHOL		RANC		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
31	KH 5146	3.74	14	3.14	30	4.47	13	-40.5	59	-0.55	49	2.47	25	-19.2	44	44.84	2	-6.16	41	-10.5	34	-33	54	-21	30	-11.9	35
32	KMH-8322	6.56	10	-20.5	50	-8.03	23	10.84	24	50.76	14	10.91	9	29.57	2	28.42	9	-0.66	31	4.65	17	-11.1	8	-7.19	12	6.49	4
33	KMH-8333	-4.43	27	24.55	8	21.04	4	-5.29	43	19.1	33	9.33	12	21.12	5	10.49	22	0.42	27	-4.6	30	-39.6	58	-20.3	27	-8.52	31
34	MM2424	1.61	17	-8.78	41	-23.9	44	44.76	3	53.32	10	-0.01	31	10.39	15	12.32	20	-10.2	44	5.55	15	-16.1	18	-3.46	9	-2.63	16
35	NMH 4313	-1.32	21	8.81	22	23.05	2	11.52	23	59.83	5	19.88	4	8.08	19	33.1	5	7.68	6	13.24	10	-26.5	44	-4.55	10	0.93	7
36	PM 19104L	5.07	13	-19.1	49	-14.4	35	-5.95	44	52.9	11	6.84	16	-8.26	35	12.35	19	4.02	14	0.95	21	-0.84	2	-30.6	43	-5.84	24
37	PM 19105 L	6.95	9	-2.29	37	6.76	11	-2.32	36	21.97	30	10.08	11	-17.4	43	10.05	23	0.14	29	-6	32	-9.11	7	-2.93	8	-6.21	26
38	PM 19106 L	-2.61	25	21.05	13	3.54	15	-32.3	58	30.54	25	3.25	23	-25.3	47	17.71	16	10.22	4	-0.29	24	-14.1	15	-32.2	44	-10	32
39	PM 19107 L	18.13	4	12.15	20	22.03	3	3.63	31	49.54	15	27.21	1	17.14	9	11.29	21	-0.82	32	31.23	2	-11.6	10	8.4	2	7.51	3
40	PM 19108 L	10.33	6	4.51	27	4.5	12	-6.19	45	37.25	21	14.21	7	-0.35	26	-3.99	44	2.25	20	16.84	4	-12.7	12	-8.88	14	-3.4	18
41	PM 19109 L	1.17	18	-60.3	60	19.93	5	39.86	6	69.95	2	21.97	3	-7.72	34	0.42	36	3	19	13.03	11	-19.1	28	-13.9	19	-6.87	28
42	PM 19110 L	-3.57	26	-14.2	46	-17.3	38	18.94	16	32.8	23	-2.49	36	15.22	12	8.47	26	-14.9	49	-3.21	28	-12.1	11	-15.5	22	-5.5	23
43	PM 19111 L	-8.6	34	6.52	25	-5.79	22	0.86	33	19.89	32	-0.72	33	-36.6	56	-8.19	52	-2.28	34	-10.9	35	-5.29	4	-49.2	55	-20.2	48
44	QMH-1604	-24.29	47	-24.8	55	-37.9	52	-27.3	56	-9.45	51	-26.5	49	-32.4	55	-28.6	60	-22.6	56	-22.5	48	-40.9	60	-35.5	47	-31.4	56
45	QMH-16101	-30.52	56	-23.3	53	-51.8	56	-28.2	57	-11	52	-37.4	57	-28.9	53	-0.43	38	-31.3	59	-37.6	56	-19.2	30	-57.5	59	-31.9	57
46	QMH-1617	-18.93	43	1.44	31	-9.98	29	-22.1	53	2.02	45	-11.4	41	-16.1	42	-6.26	47	-15.5	50	6.4	14	-11.4	9	-15.5	21	-12.4	36
47	QMH-1697	-24.45	48	9.5	21	-39.6	53	14.91	19	-52.4	58	-35.7	56	-43.4	59	-12.6	56	-40	60	-27	52	-19.9	32	-46.9	54	-33.2	58
48	Rasi 6597	7.99	7	-14.4	48	-13.5	32	23.36	13	39.44	20	5.84	18	-7.44	33	-1.5	40	0.43	26	-15.1	40	-16.8	21	35.11	1	-1.54	13
49	Rasi 70574	-2.1	24	-33.2	59	-0.74	19	21.13	15	11.61	37	1.56	28	-7.4	32	7.08	28	1.71	22	-23.6	50	-21	33	-41	53	-15.7	41
50	SBMH 1817	-20.76	44	-11.5	44	-20.9	41	9.52	25	3.24	43	-15	43	-4.11	29	6.44	29	3.16	18	-47.1	58	-13.7	14	-26.2	39	-15.4	38
51	SVMH 1627	-53.53	59	-20.7	51	-53.1	57	-15.6	48	3.84	42	-40.9	58	-27.3	50	-1.09	39	-8.48	42	3.65	18	-40.6	59	-51.3	57	-23.6	51
52	SYN916801	-5.68	29	21.1	11	1.52	16	8.45	26	29.17	26	3.34	22	41.62	1	-10.2	54	9.85	5	0.52	22	-16.2	19	-14.2	20	1.16	6
53	TMMH 853	-28.36	52	0.5	32	-14.3	34	-17.3	50	1.93	46	-16.3	45	-28	51	7.09	27	-4.7	39	-16.7	42	-25.1	41	-26.2	40	-19.6	46
54	VNR37650	-11.73	36	4.28	28	-42.1	54	-16.8	49	-65.3	59	-34.7	55	-32.2	54	-15.8	59	11.82	2	-28.1	53	-37.6	56	-36.8	49	-26.5	52
55	VNR4343	-9.93	35	-4.64	40	-23.5	43	-2.52	39	17.44	34	-10.7	40	-1.29	27	22.03	14	6.64	7	5.41	16	-15.4	17	-0.88	6	-0.26	10
56	BIO 9682 (C)	-26.03	50	-10.3	42	3.83	14	-2.36	37	90.41	1	10.14	10	18.5	8	-7.18	49	0.63	25	16.57	5	-18.1	25	-23.4	35	-4.41	20
57	CMH 08-282 (C)	-13.88	38	24.69	7	14.41	6	-43.6	60	13.73	36	0.09	29	1.15	24	17.31	17	11.94	1	15.41	9	-15.3	16	-23	33	-1.78	14
58	CMH 08-287 (C)	-6.57	32	18.64	15	-4.62	21	30.64	10	26.36	27	1.75	27	9.57	16	24.15	10	4.23	13	-6.19	33	-21.7	36	-9.06	15	-3.03	17
59	NK6240 (C)	0	20	0	34	0	18	0	34	0	48	0	30	0	25	0	37	0	30	0	23	0	1	0	3	0	9
60	CMH 08-292 (F)	-34.86	57	8.18	24	-35.7	49	16.64	18	-32.7	55	-34.2	54	-42.8	58	9.39	25	-2.72	35	-38.5	57	-29	48	-55	58	-28.7	55

Table No. : 6 (Conti...) **Gain in yield (%) over NK 6240**

S. No.	Entry Name	NWPZ										PZ																		All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADV7713	-3.5	9	-6.34	59	21.48	7	-14.8	35	-3.2	30	4.42	12	10.33	16	-8.94	51	-10.9	43	-13	38	22.87	16	0.57	15	7.07	43	1.9	28	1.21	20
2	AH 8072	-12.3	23	-3.9	51	1.66	25	-3.06	10	-2.88	27	-3.41	37	-29.8	51	2.51	31	-14.4	46	-2.96	17	20.43	19	-3.38	28	18.3	24	-1.84	37	-4.7	36
3	AH 8753	-34.2	51	10.3	31	-1.68	33	-17.7	41	-7.13	37	-11.8	49	-10.4	35	-14.2	57	-1.85	30	-9.01	28	4	43	-13.7	42	-5.14	53	-10.7	49	-12	45
4	AH1645	-12	22	12.6	25	-5.63	38	-19	46	-6.38	36	-14.9	53	4.65	20	3.72	30	5.2	21	-12.3	37	9.99	34	-6.8	33	12.17	38	-0.93	34	-2.27	34
5	AH4139	-41	54	-8.3	60	6.73	20	-13.9	33	-8.51	39	-14	52	-41.5	58	-5.16	39	-9.78	42	-41.7	59	-4.9	51	-29.4	52	13.27	33	-17.3	53	-20.4	52
6	AH4272	-12.7	24	6.38	38	-14.4	42	-11.7	29	-8.85	40	4.09	15	-12.1	39	-5.35	41	-28.4	55	-25.5	54	9.55	37	-2.92	24	5.53	46	-8.22	47	-11.5	44
7	AH5158	-21.4	34	7.96	33	7.12	17	-8.47	24	-2.99	28	6.6	8	-12.1	38	-9.18	52	-4.44	33	-25.2	53	26.3	11	-16.8	45	14.06	31	-3.99	41	-5.83	38
8	BH 417202	5.38	3	30.7	5	27.23	5	-6.82	18	12.47	3	0.85	28	-15.3	44	6.35	22	25.01	3	-15.7	44	15.33	27	-4.94	30	21.31	19	3.27	24	5.53	10
9	BRMH-17068	-36.7	52	2.71	41	-21	48	-16.7	39	-13	47	1.65	24	-6.91	33	-16.7	58	-4.7	35	-10.7	32	11.98	31	-9.69	36	22.76	14	-2.21	38	-9.74	42
10	CMH-15-006	-82.1	60	-5.79	57	-76	60	-75.5	59	-55.1	60	-36.5	60	-74.4	60	11.98	13	-62.7	59	-30.5	56	-38.4	60	-56.2	59	-21	58	-37.3	59	-37.2	59
11	CMH-15-008	-55.1	58	0.34	45	-58.7	59	-86.3	60	-53.7	59	-25.9	59	-70.2	59	-8.56	49	-79.9	60	-47.1	60	-32.3	59	-58.1	60	-29.2	60	-42.3	60	-46.5	60
12	CP 555	-1.16	5	11.3	29	-0.6	31	-7.19	19	0.43	22	3.41	19	-5.11	31	9.22	16	-0.74	28	-4.99	21	41.07	1	5.63	7	15.98	27	8.1	9	3.85	12
13	CP 802	-28.3	45	-5.34	56	-1.71	34	-21.8	48	-14.4	49	11.25	4	-9.59	34	-3.17	36	7.22	17	-5.5	22	22.96	15	-25	48	8.34	41	-1.48	36	-8.79	40
14	DKC 9207	-23.2	39	20.5	13	8.65	16	1.8	2	8.72	6	1.17	26	10.07	17	-6.16	43	0.77	26	2.71	5	12.21	30	3.34	10	12.39	37	4.29	20	5.9	9
15	GH16352	-25.8	41	6.93	36	-15.7	46	-18	44	-10.4	41	-11	45	-14	41	-25.4	60	-7.39	39	-1.34	16	7.38	39	-21.8	47	-3.46	52	-11.3	51	-14	48
16	GK 3218	-10.4	18	1.5	42	-5.54	37	-3.21	11	-4.11	32	-0.47	30	-3.2	29	14.92	10	-11.9	44	0.44	11	10.21	33	0.29	16	15.56	29	3.5	22	-1.01	27
17	HMM 1018	-41.2	55	-2.4	49	-51.2	57	-37.5	57	-33	58	-25.3	58	-35.9	56	-12.7	55	-57.1	58	-33.5	57	-10.4	55	-38.1	58	-29.1	59	-30.7	58	-35.2	58
18	HT 519074	-22.4	38	-1.24	48	-1.07	32	0.78	4	-1.93	26	-5.21	41	8.01	18	-6.79	45	9.03	16	2.38	7	27.88	6	-3.38	27	22.99	13	5.77	17	4.02	11
19	IM12723	17.44	1	13.4	23	0.18	28	6.6	1	3.45	15	29.28	1	20.05	8	6.28	23	22.38	4	17.69	1	15.87	24	22.33	1	10.51	40	15	2	9.82	2
20	IMHSB-19K-12	-23.5	40	-4.84	54	-15.4	45	-10.9	27	-10.7	42	1.69	23	-35.5	55	-4.63	38	-8.71	41	-11.3	34	9.84	35	-9.08	35	5.01	47	-7.1	45	-14.8	49
21	IMHSB-19K-13	-33	50	12.4	26	11.57	12	-16	37	-3.13	29	1.09	27	-3.18	28	-0.84	34	-29.9	56	-8.3	27	-6.13	52	-15.1	43	-0.57	50	-8.16	46	-12.4	46
22	IMHSB-19K-14	-30.3	47	18.2	17	-17.4	47	-31.6	55	-14.6	50	-5	40	-28.5	50	-8.45	48	-14.9	48	-39	58	19.64	21	-38.1	57	5.96	45	-13.3	52	-16.7	50
23	IMHVS-102	-30.3	46	12.3	27	-8.54	39	-29	52	-12.3	46	10.04	5	-11	36	13.54	11	-20.9	50	-7.11	24	26.76	10	-13	41	12.74	35	0.92	31	-7.93	39
24	JH 17011	-43.9	56	34.5	3	11.9	11	-15.5	36	5.17	9	-1.97	31	2.86	22	-6.02	42	-14.5	47	-17.5	49	6.92	41	-0.05	18	13.58	32	-2.98	40	-1.72	30
25	JH 18056	-25.9	42	15	21	-2.28	35	-5.98	16	-1.3	24	-12	50	20.75	7	-13.2	56	16.18	7	-4.25	20	19.95	20	-11.7	39	21.43	17	3.2	25	-1.1	28
26	JH 18057	-22.1	35	19.1	16	6.83	19	-8.04	23	3.39	16	-3.93	38	-14.4	43	4.65	27	6.24	19	-0.74	15	9.77	36	-5.98	32	13.08	34	-1.28	35	-0.98	26
27	JH 18087	-10.9	19	3.98	40	-4.26	36	-13.5	32	-5.54	33	2.12	21	4.18	21	-6.84	46	4.43	22	2.01	8	13.75	29	-5.13	31	24.67	12	4.65	19	1.35	18
28	JH 18088	-9.18	17	25.3	8	12.69	9	-9.06	25	3.81	13	-11.1	46	13.15	14	24.17	3	18.89	5	-5.99	23	1.84	45	5.76	6	17.48	26	6.63	16	7.94	6
29	JH 18091	-11	20	31.4	4	16.66	8	1.25	3	14.05	2	4.39	14	-32.5	52	4.82	26	-4.49	34	-13	39	11.81	32	2.44	13	45.07	1	3.83	21	3.69	14
30	KH 2193	-14.6	26	16.6	18	6.95	18	-10.2	26	1.4	20	3.46	17	-1.86	27	-5.33	40	6.84	18	-11.9	36	26.99	8	-15.7	44	20.63	21	1.4	29	-3.85	35

Table No. : 6 (Conti...) **Gain in yield (%) over NK 6240**

S. No.	Entry Name	NWPZ										PZ																		All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
31	KH 5146	-7.42	12	6.85	37	4.26	22	-2.65	9	1.36	21	3.44	18	1.31	23	-23.7	59	-2.73	31	-3.61	18	26.98	9	1.27	14	17.73	25	1.32	30	-2.17	32
32	KMH-8322	-1.31	7	29.4	6	39.45	1	-5.76	15	15.11	1	8.97	7	24.21	4	18.97	6	13.16	11	5.08	4	7	40	6.37	5	30.09	5	14.17	4	11.75	1
33	KMH-8333	-3.8	10	22.1	11	25.11	6	-17.8	43	4.02	12	5.01	11	27.94	3	8.73	18	12.35	12	-7.17	25	15.43	26	-10.7	37	18.34	23	7.29	11	2.62	16
34	MM2424	-7.49	13	15.7	20	10.8	14	-1.99	8	4.24	11	11.59	3	-1	25	8.3	20	-1.15	29	-16.4	46	27.24	7	-1.24	21	31.64	4	6.78	13	2.82	15
35	NMH 4313	-16.9	29	22.9	10	12.53	10	-11.9	30	3.16	18	5.84	10	22.51	5	8.64	19	31.16	2	12.68	2	23.03	14	2.54	12	31.76	3	14.29	3	9.44	4
36	PM 19104L	-17.8	30	1.25	43	-39	55	-29.7	53	-22.8	53	-3.12	34	-4.78	30	27.6	1	6.08	20	-29.7	55	33.86	2	3.8	9	20.98	20	6.77	14	-1.87	31
37	PM 19105 L	7.16	2	7.58	34	27.61	4	-0.42	7	7.46	7	1.57	25	33.07	1	15.95	9	9.18	15	1.39	9	15.52	25	-0.17	20	28.71	8	12.02	6	5.92	8
38	PM 19106 L	-8.89	16	20.1	14	-15.1	44	-31.1	54	-14.8	51	-2.29	32	15.04	11	5.55	25	13.52	9	0.88	10	32.52	3	-4.44	29	29.01	7	9.39	7	-0.94	25
39	PM 19107 L	-32.9	49	21.8	12	0.69	27	-3.82	12	4.73	10	9.09	6	-15.6	45	1.01	32	31.88	1	-0.71	14	24.42	13	12.79	3	11.98	39	6.64	15	9.42	5
40	PM 19108 L	-1.28	6	-6.17	58	0.15	29	-11	28	-6.03	34	-11.5	48	19.71	9	-6.38	44	16.8	6	-11.5	35	30.37	4	19.85	2	21.35	18	9.24	8	3.77	13
41	PM 19109 L	-22.2	36	-0.55	47	28.09	3	-4.72	14	3.22	17	14.37	2	33	2	10.88	15	13.72	8	-10.6	31	28.87	5	-1.44	23	27.19	10	13.84	5	7.48	7
42	PM 19110 L	-13.7	25	8.91	32	4.78	21	-4.32	13	1.65	19	-3.28	35	14.17	13	6.01	24	-6.91	38	-9.17	29	20.46	18	-8.78	34	15.71	28	3.31	23	-0.27	24
43	PM 19111 L	-27.1	44	10.5	30	-33.8	52	-12.7	31	-13.9	48	-4.58	39	16.93	10	8.98	17	9.26	14	-3.99	19	15.97	23	-3.01	25	31.8	2	7.84	10	-4.88	37
44	QMH-1604	-14.6	27	13.9	22	-37.2	54	-25.1	49	-17.3	52	-21.6	56	-41.4	57	-4.35	37	-26.8	54	-19.7	52	-2.91	49	-30.2	53	-5.74	55	-18.8	56	-23.1	55
45	QMH-16101	-30.5	48	-4.89	55	-48.6	56	-20.8	47	-25.3	55	-19.2	55	-32.7	53	-10.8	54	-12.2	45	-13.2	40	-10.7	56	-37.1	56	-6.73	56	-17.7	55	-25.7	56
46	QMH-1617	-16.3	28	6.04	39	-14.5	43	-16.7	38	-11.7	44	-12.9	51	-11.2	37	6.85	21	-16.5	49	-9.71	30	-2.14	48	-10.8	38	14.71	30	-5.61	42	-9.34	41
47	QMH-1697	-48.7	57	-3.28	50	-53	58	-35.4	56	-31.8	56	-15.6	54	-27.1	49	-10.2	53	-23.2	51	-14.8	42	-14.1	57	-36.8	55	-17.9	57	-21.9	57	-28.8	57
48	Rasi 6597	-19.1	32	16.2	19	1.03	26	0.76	5	3.66	14	-7.37	44	-12.3	40	18.42	7	2.14	24	-18.6	51	18.38	22	4.94	8	22.08	16	3.02	26	2.3	17
49	Rasi 70574	-8.45	15	0.72	44	-10.9	40	-6.19	17	-6.06	35	-3.32	36	14.86	12	20.46	5	-7.85	40	-8.15	26	14.08	28	-12.9	40	29.38	6	7.09	12	-2.26	33
50	SBMH 1817	-20.8	33	19.4	15	-14.1	41	-17.8	42	-7.3	38	-5.22	42	-24.3	48	12.44	12	-23.8	52	-10.8	33	8.33	38	-26	50	22.54	15	-5.9	43	-10.1	43
51	SVMH 1627	-8.35	14	26.8	7	-24.5	50	-28.2	50	-10.9	43	-24.1	57	-35.1	54	-8.94	50	-5.6	36	2.48	6	-24.8	58	-34.7	54	-5.32	54	-17.6	54	-21.5	53
52	SYN916801	-18.1	31	47.1	1	2.71	23	-7.2	20	9.37	4	6.57	9	21.14	6	25.53	2	13.31	10	11.08	3	25.75	12	12.72	4	28.59	9	17.23	1	9.47	3
53	TMMH 853	-26.8	43	11.8	28	-24.4	49	-17	40	-11.8	45	1.84	22	-20.3	46	-8.38	47	-26.6	53	-15.7	45	2.6	44	-18.3	46	25.53	11	-6.45	44	-12.4	47
54	VNR37650	-57.7	59	7.02	35	-35.6	53	-55.1	58	-32.6	57	-5.67	43	-6.34	32	-1.47	35	-43.2	57	-17	48	5.21	42	-25.3	49	1.74	48	-10.9	50	-22.4	54
55	VNR4343	-1.56	8	13.1	24	34.17	2	-7.24	21	8.81	5	3.91	16	-14.4	42	4.65	28	1.97	25	-14.8	43	-8.1	53	-1.32	22	12.73	36	-2.54	39	-1.14	29
56	BIO 9682 (C)	-22.3	37	24	9	2.63	24	-18.3	45	-1.47	25	-2.53	33	7.62	19	20.77	4	-3.49	32	-13.4	41	-8.26	54	-0.09	19	-0.65	51	-0.1	33	-0.1	23
57	CMH 08-282 (C)	-6.44	11	-4.5	52	9.12	15	-7.57	22	-3.89	31	4.42	13	11.47	15	11.21	14	11.85	13	-16.8	47	21.49	17	3	11	7.7	42	5.64	18	1.2	21
58	CMH 08-287 (C)	-11.9	21	35.8	2	11	13	-14.7	34	5.18	8	2.31	20	-1.46	26	3.96	29	3.1	23	0.09	12	-4.89	50	-3.24	26	19.46	22	2.33	27	1.26	19
59	NK6240 (C)	0	4	0	46	0	30	0	6	0	23	0	29	0	24	0	33	0	27	0	13	0	46	0	17	0	49	0	32	0	22
60	CMH 08-292 (F)	-37.8	53	-4.63	53	-27.1	51	-28.6	51	-23	54	-11.2	47	-20.8	47	17.77	8	-5.95	37	-17.8	50	-1.51	47	-27.6	51	6.17	44	-8.56	48	-20.3	51

Table No. : 6 (Conti...)		Number of cobs												
S. No.	Entry Name	CWZ						NEPZ						
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7713	37	28	33	16	32	29	37	34	35	39	38	38	37
2	AH 8072	30	26	31	16	36	28	37	35	36	43	33	39	37
3	AH 8753	28	29	29	12	36	27	34	36	35	36	36	39	36
4	AH1645	32	31	33	17	35	29	37	33	35	38	34	39	36
5	AH4139	28	37	24	14	34	28	33	36	33	38	35	38	36
6	AH4272	27	26	27	11	34	25	34	31	33	35	35	36	34
7	AH5158	30	29	35	14	34	29	37	35	35	39	37	36	37
8	BH 417202	30	28	30	18	35	28	37	38	35	37	36	41	37
9	BRMH-17068	32	31	26	14	38	28	31	31	37	37	33	36	34
10	CMH-15-006	40	27	14	16	12	22	32	33	33	33	35	34	33
11	CMH-15-008	26	24	15	15	20	19	30	30	34	32	37	30	32
12	CP 555	35	31	31	16	36	30	38	35	36	36	37	39	37
13	CP 802	33	30	25	12	34	27	35	34	32	38	33	39	35
14	DKC 9207	35	27	35	12	38	30	43	36	38	42	39	36	39
15	GH16352	29	29	33	16	37	28	36	36	36	40	35	40	37
16	GK 3218	32	28	28	15	37	28	37	34	36	38	35	37	36
17	HMM 1018	25	28	30	14	35	26	31	34	36	37	33	33	34
18	HT 519074	33	28	29	17	38	29	34	36	37	45	39	39	38
19	IM12723	38	24	28	15	33	28	35	36	34	37	36	38	36
20	IMHSB-19K-12	28	28	30	15	31	27	36	33	34	32	33	39	35
21	IMHSB-19K-13	29	29	30	15	34	28	30	35	35	35	36	38	35
22	IMHSB-19K-14	27	28	26	14	28	25	35	34	32	36	37	35	35
23	IMHVS-102	28	28	30	17	29	27	33	33	33	31	34	37	33
24	JH 17011	35	30	31	12	33	28	37	34	37	42	34	38	37
25	JH 18056	29	31	28	15	36	27	35	36	35	33	35	34	34
26	JH 18057	31	27	34	14	37	28	34	34	34	38	35	38	35
27	JH 18087	30	30	33	16	36	29	40	34	33	40	35	38	37
28	JH 18088	31	27	29	15	35	28	36	34	34	38	36	38	37
29	JH 18091	30	29	34	18	36	30	37	38	35	39	36	38	37
30	KH 2193	34	26	32	14	37	29	36	34	35	35	33	35	34
31	KH 5146	34	26	36	11	35	29	33	42	36	35	33	36	36
32	KMH-8322	34	27	27	15	36	28	35	36	35	37	37	38	37

Table No. : 6 (Conti...) **Number of cobs**

S. No.	Entry Name	CWZ						NEPZ						
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
33	KMH-8333	30	27	29	13	29	26	38	34	33	32	34	38	35
34	MM2424	33	29	32	17	38	29	37	36	38	39	36	39	37
35	NMH 4313	34	26	37	15	39	30	38	36	36	41	36	41	37
36	PM 19104L	34	28	33	13	33	28	35	35	33	38	42	36	36
37	PM 19105 L	35	23	34	14	32	28	33	35	36	35	36	38	36
38	PM 19106 L	31	27	31	13	34	27	30	33	37	43	36	38	36
39	PM 19107 L	38	28	37	14	33	30	37	34	34	40	38	39	37
40	PM 19108 L	35	28	36	16	37	30	35	33	33	40	35	35	35
41	PM 19109 L	36	22	37	17	33	29	33	35	37	40	38	37	37
42	PM 19110 L	30	28	26	15	35	27	38	35	32	37	36	37	36
43	PM 19111 L	31	26	32	14	33	27	29	33	33	38	37	39	35
44	QMH-1604	29	27	27	11	33	26	33	35	34	38	33	39	35
45	QMH-16101	27	29	26	14	34	26	29	34	34	36	32	37	34
46	QMH-1617	30	29	31	13	33	27	34	34	33	41	37	39	36
47	QMH-1697	31	26	30	13	33	27	32	33	35	32	34	35	34
48	Rasi 6597	33	28	34	15	38	30	33	35	36	38	34	39	36
49	Rasi 70574	33	23	31	16	34	28	37	34	33	37	37	37	36
50	SBMH 1817	28	25	23	14	29	24	33	33	34	30	36	34	33
51	SVMH 1627	25	29	22	14	33	25	28	34	34	37	30	36	33
52	SYN916801	31	30	26	15	32	27	35	34	33	38	35	37	36
53	TMMH 853	27	26	23	13	30	24	35	34	33	31	38	34	34
54	VNR37650	29	26	16	14	15	20	31	33	34	26	30	30	30
55	VNR4343	32	26	29	13	31	26	36	36	33	34	38	38	36
56	BIO 9682 (C)	28	28	34	13	36	28	42	36	37	40	37	37	38
57	CMH 08-282 (C)	30	26	37	13	34	28	36	35	38	41	37	39	38
58	CMH 08-287 (C)	31	29	29	16	31	27	35	34	34	37	35	37	35
59	NK6240 (C)	32	29	35	16	35	29	34	35	35	41	39	35	37
60	CMH 08-292 (F)	25	24	21	16	24	23	31	34	34	35	33	35	34
	L Mean	31.1	27.6	29.6	14.5	33.1	27.2	34.7	34.5	34.7	37.1	35.5	37.1	35.6
	CV (%)	7.5	14.5	13.8	20.8	9.4	12.4	8.2	9.1	5.3	9.8	8.3	8.6	8.4
	F (Prob)	0.0	0.6	0.0	0.8	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.1	0.0
	CD (5%)	3.8	6.5	6.6	4.9	5.0	2.4	4.6	5.1	3.0	5.9	4.7	5.2	2.0
	CD (1%)	5.0	8.6	8.7	6.5	6.6	3.2	6.1	6.7	3.9	7.8	6.3	6.8	2.6

Table No. : 6 (Conti...) **Number of cobs**

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7713	26	43	38	38	36	33	36	35	32	34	32	35	37	35	34
2	AH 8072	28	42	42	42	38	33	40	34	30	34	30	36	38	34	34
3	AH 8753	20	44	38	38	35	30	35	34	34	36	30	37	35	34	33
4	AH1645	28	42	37	40	37	31	34	37	34	33	32	36	37	34	34
5	AH4139	20	39	35	36	33	32	37	35	34	34	28	37	37	34	33
6	AH4272	26	43	40	37	36	32	38	33	28	33	27	35	41	33	32
7	AH5158	28	44	38	41	38	32	37	35	34	31	33	35	37	34	34
8	BH 417202	27	44	34	37	35	33	37	33	35	34	27	34	37	34	34
9	BRMH-17068	23	42	38	39	36	33	37	34	32	33	30	37	36	34	33
10	CMH-15-006	13	40	33	12	25	30	22	36	16	33	29	32	34	29	28
11	CMH-15-008	17	42	36	7	26	31	21	35	11	32	32	32	35	28	27
12	CP 555	31	43	39	40	38	32	36	35	33	36	28	37	39	35	35
13	CP 802	29	44	39	37	37	32	36	32	35	34	32	35	38	34	33
14	DKC 9207	31	43	39	48	40	33	43	33	35	38	31	38	39	36	36
15	GH16352	26	44	39	44	38	33	43	33	33	35	32	37	37	35	35
16	GK 3218	25	43	37	43	37	30	39	34	31	32	33	35	38	34	34
17	HMM 1018	23	43	34	42	35	31	35	35	27	34	30	37	33	33	32
18	HT 519074	24	43	37	47	38	32	40	33	36	36	29	37	34	35	35
19	IM12723	32	44	36	41	38	34	36	35	38	35	30	36	39	35	34
20	IMHSB-19K-12	24	44	38	44	37	32	36	33	32	36	29	34	38	34	33
21	IMHSB-19K-13	27	42	40	38	37	31	39	32	28	35	28	36	39	34	33
22	IMHSB-19K-14	22	45	36	37	35	32	33	34	32	32	33	36	34	33	32
23	IMHVS-102	26	42	38	33	35	33	37	35	31	33	31	34	37	34	32
24	JH 17011	19	46	37	40	35	32	40	32	32	34	31	38	35	34	34
25	JH 18056	21	44	39	41	36	33	37	35	31	33	33	36	37	34	33
26	JH 18057	25	43	40	38	37	32	35	34	33	37	30	37	40	35	34
27	JH 18087	25	44	37	39	36	32	37	34	33	36	32	34	38	35	34
28	JH 18088	27	44	36	40	37	32	37	36	38	36	29	34	35	34	34
29	JH 18091	24	43	37	43	37	32	35	34	33	36	28	36	37	34	34
30	KH 2193	29	43	39	38	37	32	39	36	33	33	30	39	35	35	34
31	KH 5146	28	42	38	43	38	32	41	32	35	36	34	39	43	36	35
32	KMH-8322	25	45	40	38	37	32	43	36	35	36	24	38	35	35	34

Table No. : 6 (Conti...) **Number of cobs**

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
33	KMH-8333	23	43	36	34	34	33	36	33	33	34	30	32	35	33	32
34	MM2424	25	44	39	43	37	33	33	36	35	35	27	38	34	34	34
35	NMH 4313	25	44	38	37	36	34	41	35	35	37	30	37	35	35	35
36	PM 19104L	26	43	35	39	36	32	40	38	35	36	28	36	35	35	34
37	PM 19105 L	32	45	37	43	39	33	39	34	33	36	30	37	44	36	35
38	PM 19106 L	26	43	38	39	36	33	43	34	34	38	33	37	39	36	34
39	PM 19107 L	21	44	37	42	36	33	41	36	37	37	28	35	39	36	35
40	PM 19108 L	23	42	40	44	37	31	41	33	36	35	29	37	37	35	34
41	PM 19109 L	20	42	40	39	35	32	37	35	38	33	30	39	39	35	34
42	PM 19110 L	26	43	38	46	38	31	43	35	30	35	29	37	37	35	34
43	PM 19111 L	26	44	35	39	36	33	41	37	31	35	30	39	36	36	34
44	QMH-1604	28	43	37	40	37	30	37	37	30	37	29	37	40	35	33
45	QMH-16101	22	44	35	38	34	32	36	34	34	33	28	36	39	34	32
46	QMH-1617	28	45	38	40	38	32	38	36	28	37	28	36	39	34	34
47	QMH-1697	24	43	36	36	34	32	37	31	31	35	31	36	38	34	32
48	Rasi 6597	26	45	39	42	38	31	40	37	39	35	27	36	40	36	35
49	Rasi 70574	27	43	38	38	37	32	38	37	32	34	29	34	37	35	34
50	SBMH 1817	25	44	34	32	34	31	33	36	32	32	27	32	35	32	31
51	SVMH 1627	24	42	37	31	33	30	30	32	33	34	25	33	36	32	31
52	SYN916801	20	43	36	38	35	33	38	34	34	35	29	37	34	34	33
53	TMMH 853	28	44	36	33	35	31	35	32	25	35	29	35	37	32	31
54	VNR37650	18	42	35	15	28	31	32	35	23	34	27	33	35	31	28
55	VNR4343	25	43	39	41	37	33	35	33	31	35	31	33	40	34	33
56	BIO 9682 (C)	30	43	43	40	38	33	37	37	34	37	28	36	37	35	35
57	CMH 08-282 (C)	24	44	38	45	38	32	40	34	34	36	33	35	41	36	35
58	CMH 08-287 (C)	29	44	36	38	36	32	32	34	32	33	27	34	37	33	33
59	NK6240 (C)	27	42	39	45	38	31	42	34	36	38	32	39	38	36	35
60	CMH 08-292 (F)	19	43	33	33	32	29	32	35	27	31	32	33	35	32	30
	L Mean	24.8	43.2	37.4	38.2	35.9	31.9	37.0	34.5	32.1	34.7	29.7	35.8	37.2	34.1	33.3
	CV (%)	18.3	3.4	5.7	8.8	8.7	4.9	10.9	8.1	13.3	5.5	11.2	6.1	9.0	9.0	9.4
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.7	0.0	0.0	0.4	0.0	0.1	0.0	0.0
	CD (5%)	7.4	2.3	3.5	5.4	2.5	2.5	6.5	4.5	6.9	3.1	5.4	3.5	5.4	1.8	1.1
	CD (1%)	9.8	3.1	4.6	7.2	3.3	3.4	8.6	6.0	9.1	4.1	7.1	4.6	7.2	2.3	1.4

Table No. : 6 (Conti...)		Ear Height (cm)												
S. No.	Entry Name	CWZ						NEPZ						
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7713	107	80	89	80	108	93	118	72	79	100	109	76	92
2	AH 8072	106	79	100	82	111	97	117	84	78	98	123	81	96
3	AH 8753	98	81	105	83	98	94	128	81	82	98	107	90	98
4	AH1645	109	64	99	73	112	91	118	82	89	107	113	89	101
5	AH4139	99	87	88	81	99	92	111	79	74	96	110	71	91
6	AH4272	113	69	98	79	114	96	121	89	85	108	110	98	102
7	AH5158	97	84	83	84	101	89	122	76	74	96	109	77	93
8	BH 417202	107	88	91	76	110	93	128	83	86	101	112	88	100
9	BRMH-17068	100	90	91	75	104	92	109	71	75	84	100	76	85
10	CMH-15-006	99	98	98	74	92	92	110	84	78	91	101	86	91
11	CMH-15-008	99	82	94	74	92	88	95	85	78	94	119	91	93
12	CP 555	110	83	94	82	95	92	112	79	79	101	118	81	94
13	CP 802	103	86	84	84	106	92	117	90	79	91	116	88	97
14	DKC 9207	114	86	108	80	115	101	142	104	100	119	130	90	114
15	GH16352	100	93	88	74	96	90	111	65	71	85	103	63	84
16	GK 3218	105	88	103	81	105	97	115	85	79	91	114	73	92
17	HMM 1018	103	86	99	76	100	92	123	75	77	96	115	89	95
18	HT 519074	100	84	100	77	95	91	117	72	73	86	113	92	91
19	IM12723	107	91	117	81	127	105	131	94	102	116	122	99	111
20	IMHSB-19K-12	102	75	83	78	99	88	111	76	76	95	101	78	89
21	IMHSB-19K-13	103	88	96	80	105	94	110	83	88	91	114	73	94
22	IMHSB-19K-14	104	77	71	82	99	86	114	73	74	88	103	83	89
23	IMHVS-102	103	88	90	81	107	93	120	75	71	93	102	94	91
24	JH 17011	113	78	90	82	89	90	121	72	82	93	102	92	94
25	JH 18056	101	76	109	77	102	93	116	86	76	94	113	89	96
26	JH 18057	108	97	110	82	108	101	119	103	80	111	118	103	106
27	JH 18087	108	85	101	81	117	98	131	97	81	114	118	93	106
28	JH 18088	114	83	114	75	128	103	128	89	96	106	118	94	106
29	JH 18091	108	94	94	81	107	97	118	88	76	105	110	87	97
30	KH 2193	102	80	91	80	92	89	102	60	77	90	109	79	87
31	KH 5146	92	82	90	77	97	88	101	80	66	70	102	63	80
32	KMH-8322	103	79	88	77	108	91	121	83	78	107	97	83	96

Table No. : 6 (Conti...) **Ear Height (cm)**

S. No.	Entry Name	CWZ						NEPZ						
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
33	KMH-8333	95	81	93	73	89	86	126	73	75	101	100	84	94
34	MM2424	102	81	81	85	108	91	116	78	81	108	105	88	96
35	NMH 4313	108	91	120	85	112	103	139	95	98	118	125	106	114
36	PM 19104L	105	75	73	78	87	83	113	70	74	93	105	86	91
37	PM 19105 L	103	79	93	78	124	96	110	74	82	102	113	78	93
38	PM 19106 L	113	89	102	75	105	97	117	88	87	108	118	99	104
39	PM 19107 L	116	87	93	68	131	99	146	111	97	141	112	122	120
40	PM 19108 L	118	78	105	78	107	97	121	88	92	107	125	99	105
41	PM 19109 L	110	68	99	82	112	95	130	77	92	112	116	93	103
42	PM 19110 L	99	77	83	73	107	88	97	69	68	77	95	77	81
43	PM 19111 L	117	95	103	75	117	101	126	97	93	109	114	103	107
44	QMH-1604	112	75	94	77	110	94	106	95	82	90	115	81	94
45	QMH-16101	98	86	80	75	113	90	111	80	71	94	113	77	91
46	QMH-1617	110	81	92	75	103	91	128	97	76	107	111	87	101
47	QMH-1697	98	79	78	75	101	86	102	83	73	97	107	80	90
48	Rasi 6597	95	82	81	80	92	87	106	71	65	86	93	76	83
49	Rasi 70574	110	75	101	78	114	96	115	77	85	86	113	93	94
50	SBMH 1817	99	83	81	81	100	89	103	77	76	92	107	79	89
51	SVMH 1627	103	87	91	76	115	94	122	84	80	115	105	90	99
52	SYN916801	99	88	107	84	108	98	124	83	83	92	126	78	99
53	TMMH 853	93	75	91	79	96	87	108	75	73	88	111	75	88
54	VNR37650	108	86	91	76	101	93	100	78	78	80	108	79	86
55	VNR4343	94	84	89	81	108	92	129	125	85	98	110	88	106
56	BIO 9682 (C)	91	81	102	80	122	95	129	85	86	105	121	79	101
57	CMH 08-282 (C)	119	77	111	76	115	100	136	112	94	118	126	91	113
58	CMH 08-287 (C)	112	83	123	76	124	104	128	89	95	119	130	91	108
59	NK6240 (C)	105	80	102	75	112	94	117	72	79	89	119	79	94
60	CMH 08-292 (F)	108	72	104	84	120	98	118	89	87	99	114	92	99
	L Mean	104.6	82.6	95.3	78.4	106.5	93.5	118.0	83.4	81.0	99.1	111.9	85.9	96.6
	CV (%)	4.7	12.8	6.0	8.8	9.2	8.4	8.7	15.3	8.5	8.0	7.1	11.4	9.8
	F (Prob)	0.0	0.3	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	7.9	17.1	9.2	11.1	15.8	5.7	16.5	20.6	11.1	12.8	12.9	15.8	6.3
	CD (1%)	10.4	22.6	12.2	14.8	20.9	7.5	21.9	27.3	14.7	16.9	17.0	20.9	8.3

Table No. : 6 (Conti...) **Ear Height (cm)**

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7713	136	86	117	130	114	109	72	88	63	49	101	79	114	86	93
2	AH 8072	145	100	125	95	124	118	82	85	76	50	105	89	123	92	99
3	AH 8753	131	108	128	126	123	110	89	83	71	58	98	90	120	90	98
4	AH1645	139	101	123	152	123	113	66	93	65	43	95	83	117	87	97
5	AH4139	133	97	111	82	112	102	59	79	62	41	87	85	121	83	91
6	AH4272	152	97	129	90	127	118	80	98	69	51	115	84	129	94	101
7	AH5158	141	85	134	118	118	107	67	80	61	45	85	74	106	80	91
8	BH 417202	137	90	120	128	117	111	72	105	71	53	97	82	124	92	98
9	BRMH-17068	134	97	114	146	114	106	76	89	65	47	89	76	136	87	92
10	CMH-15-006	127	102	120	141	117	105	68	83	58	43	97	84	122	85	93
11	CMH-15-008	139	96	111	106	114	111	66	82	62	58	87	71	106	82	91
12	CP 555	139	91	121	125	118	109	76	96	71	42	93	85	126	89	96
13	CP 802	131	90	127	119	114	111	86	101	61	55	101	75	107	87	95
14	DKC 9207	165	122	136	144	140	127	95	98	90	62	117	100	137	105	112
15	GH16352	134	106	111	137	119	110	72	98	64	45	98	61	111	84	90
16	GK 3218	127	89	107	110	108	111	76	87	75	47	100	84	111	88	94
17	HMM 1018	148	101	139	131	129	111	75	92	59	72	85	72	119	87	96
18	HT 519074	138	81	109	120	107	105	84	85	58	60	95	77	104	83	91
19	IM12723	159	107	124	145	129	128	112	93	74	67	109	96	126	99	108
20	IMHSB-19K-12	130	93	119	129	114	111	70	81	70	56	99	83	111	87	92
21	IMHSB-19K-13	136	92	112	124	113	112	151	87	52	48	102	85	121	87	95
22	IMHSB-19K-14	136	84	120	132	113	106	74	91	48	42	104	73	127	85	90
23	IMHVS-102	135	79	122	113	112	110	80	101	63	48	100	79	125	89	94
24	JH 17011	145	97	109	111	119	110	71	91	64	44	87	74	116	83	93
25	JH 18056	135	105	128	140	122	106	88	86	72	54	94	76	123	87	96
26	JH 18057	142	112	122	134	125	117	87	103	82	51	113	102	122	98	105
27	JH 18087	143	108	131	136	128	110	76	94	78	47	106	82	117	91	102
28	JH 18088	149	110	135	103	131	113	100	103	88	68	112	96	131	102	108
29	JH 18091	138	92	124	150	118	107	83	97	69	38	94	87	118	87	97
30	KH 2193	125	96	113	140	112	105	138	85	59	43	95	72	114	82	89
31	KH 5146	126	85	107	77	106	103	121	89	66	54	92	67	125	85	87
32	KMH-8322	134	93	117	121	115	110	75	87	64	55	90	71	116	85	94

Table No. : 6 (Conti...) **Ear Height (cm)**

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
33	KMH-8333	135	98	121	102	119	109	79	91	63	52	105	77	119	88	94
34	MM2424	149	98	126	124	123	111	78	95	62	45	100	75	123	87	96
35	NMH 4313	157	121	128	145	137	125	81	95	83	61	103	100	128	100	110
36	PM 19104L	136	96	121	110	119	111	70	87	57	46	80	84	112	82	90
37	PM 19105 L	142	79	123	81	116	115	71	90	72	51	108	80	123	91	96
38	PM 19106 L	153	112	125	146	128	111	92	88	74	46	111	92	123	93	102
39	PM 19107 L	164	113	135	169	137	115	82	84	75	63	102	92	123	93	109
40	PM 19108 L	145	97	133	121	125	119	87	96	80	55	103	92	133	97	103
41	PM 19109 L	156	104	129	93	130	119	92	96	82	57	104	87	127	96	103
42	PM 19110 L	133	82	107	115	108	103	71	83	63	38	85	69	121	80	86
43	PM 19111 L	150	85	125	134	121	123	79	95	68	59	118	94	121	97	104
44	QMH-1604	128	100	126	150	118	105	74	90	69	54	98	70	127	87	95
45	QMH-16101	132	96	113	118	113	112	73	86	59	53	85	81	128	86	92
46	QMH-1617	135	101	120	129	118	113	90	94	69	57	103	98	126	94	99
47	QMH-1697	131	94	116	124	115	107	74	76	56	50	95	82	128	84	91
48	Rasi 6597	120	77	121	105	104	104	64	79	60	36	82	71	111	77	85
49	Rasi 70574	131	85	108	145	109	109	75	95	67	48	101	79	126	90	95
50	SBMH 1817	133	89	116	133	113	105	61	92	52	43	87	59	116	79	89
51	SVMH 1627	146	97	128	120	125	105	75	87	72	46	104	73	116	86	97
52	SYN916801	131	104	132	145	122	116	83	92	67	49	100	87	125	91	99
53	TMMH 853	121	90	129	116	114	99	64	89	64	40	87	78	109	81	89
54	VNR37650	136	96	124	101	117	105	70	87	68	49	104	75	118	86	92
55	VNR4343	141	83	118	506	115	114	73	91	58	39	102	76	129	87	97
56	BIO 9682 (C)	137	96	121	140	118	113	95	98	75	52	95	91	122	92	99
57	CMH 08-282 (C)	164	104	122	137	130	122	97	94	79	57	103	93	136	98	107
58	CMH 08-287 (C)	163	108	138	136	137	128	90	101	80	50	120	96	128	100	109
59	NK6240 (C)	137	92	110	128	113	106	76	95	70	55	85	85	122	89	95
60	CMH 08-292 (F)	150	105	111	107	122	117	72	90	79	50	111	83	124	93	100
	L Mean	139.8	96.6	121.6	130.6	119.3	111.4	81.2	90.7	67.9	50.7	98.7	81.9	121.2	88.9	96.5
	CV (%)	5.1	11.0	10.6	65.8	8.8	4.5	27.2	9.1	11.6	18.5	8.1	10.7	7.6	9.2	9.2
	F (Prob)	0.0	0.0	0.2	0.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	11.5	17.3	20.8	139.0	9.9	8.2	35.7	13.3	12.7	15.2	13.0	14.1	14.9	5.1	3.1
	CD (1%)	15.2	22.8	27.5	183.9	13.0	10.8	47.3	17.6	16.8	20.1	17.1	18.7	19.7	6.6	4.1

Table No. : 6 (Conti...)		Final Plant Stand (000/ha)											
S. No.	Entry Name	CWZ						NEPZ					
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7713	80	61	69	73	78	71	78	71	78	78	79	75
2	AH 8072	65	62	71	76	81	70	77	70	79	86	81	78
3	AH 8753	61	58	69	54	82	65	74	72	78	74	79	76
4	AH1645	69	61	71	73	79	71	76	68	76	77	81	76
5	AH4139	60	58	61	62	75	64	73	74	76	79	79	78
6	AH4272	59	53	59	56	75	61	75	63	73	72	76	72
7	AH5158	64	61	75	65	78	70	75	73	74	81	72	76
8	BH 417202	66	58	66	78	80	69	79	79	77	77	83	79
9	BRMH-17068	69	59	72	71	83	70	76	65	81	77	75	74
10	CMH-15-006	88	53	31	65	42	56	69	69	71	67	71	69
11	CMH-15-008	58	50	33	62	54	51	63	64	75	66	63	66
12	CP 555	78	56	65	75	82	71	77	72	77	73	79	75
13	CP 802	71	63	68	65	79	69	79	72	70	79	79	76
14	DKC 9207	74	52	72	65	83	70	77	75	80	84	76	79
15	GH16352	62	60	75	73	78	69	75	75	77	82	82	77
16	GK 3218	70	60	60	68	80	68	76	72	78	80	76	76
17	HMM 1018	58	59	76	70	82	69	73	70	77	76	70	72
18	HT 519074	71	58	63	77	85	70	76	75	80	89	79	80
19	IM12723	82	54	60	70	78	69	78	68	76	78	78	76
20	IMHSB-19K-12	61	60	72	74	73	68	80	69	78	67	80	75
21	IMHSB-19K-13	62	64	59	69	77	66	73	69	76	73	79	74
22	IMHSB-19K-14	60	56	57	68	65	62	73	71	71	75	72	73
23	IMHVS-102	60	64	67	77	72	68	73	69	72	64	77	71
24	JH 17011	76	61	78	63	76	71	77	68	82	83	80	78
25	JH 18056	62	61	70	72	81	69	73	75	77	70	69	72
26	JH 18057	67	54	68	63	80	66	76	71	74	79	80	76
27	JH 18087	65	64	70	72	80	70	80	72	75	83	79	78
28	JH 18088	67	58	65	69	80	69	77	67	76	78	80	77
29	JH 18091	70	57	74	77	80	72	78	79	78	81	78	79
30	KH 2193	71	55	70	63	78	68	78	69	76	73	71	73
31	KH 5146	72	58	75	52	79	67	72	82	78	74	74	76
32	KMH-8322	72	60	57	71	78	69	75	74	74	77	80	76

Table No. : 6 (Conti...) **Final Plant Stand (000/ha)**

S. No.	Entry Name	CWZ						NEPZ					
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
33	KMH-8333	66	58	66	59	69	64	78	69	72	66	80	73
34	MM2424	71	61	68	72	82	71	76	73	80	81	79	78
35	NMH 4313	73	61	78	69	85	72	78	74	77	84	84	79
36	PM 19104L	71	61	72	60	76	68	76	70	70	79	73	73
37	PM 19105 L	73	51	73	68	78	69	78	72	75	74	79	76
38	PM 19106 L	67	58	72	61	77	67	71	70	78	84	78	77
39	PM 19107 L	85	51	73	62	79	70	76	70	78	81	82	78
40	PM 19108 L	74	57	78	74	84	73	75	69	75	84	72	75
41	PM 19109 L	76	56	82	79	71	73	75	71	75	82	77	76
42	PM 19110 L	66	56	61	64	76	65	78	72	72	75	76	75
43	PM 19111 L	65	56	74	67	79	68	73	69	72	79	81	75
44	QMH-1604	63	57	63	53	77	63	75	72	73	79	79	76
45	QMH-16101	58	58	71	68	80	67	78	71	75	76	78	75
46	QMH-1617	66	64	71	62	84	68	73	70	70	83	80	75
47	QMH-1697	66	52	74	61	72	65	75	68	76	67	74	72
48	Rasi 6597	74	55	75	69	83	72	74	75	77	80	82	78
49	Rasi 70574	70	51	69	68	73	66	76	68	74	74	79	74
50	SBMH 1817	62	52	52	66	68	60	70	68	75	61	72	69
51	SVMH 1627	55	58	64	62	79	64	68	71	73	77	74	73
52	SYN916801	66	59	67	69	76	68	76	68	74	78	76	75
53	TMMH 853	57	58	56	58	72	60	76	70	71	64	71	70
54	VNR37650	62	50	42	60	68	56	68	68	77	54	62	66
55	VNR4343	67	55	65	65	74	66	73	75	71	71	77	74
56	BIO 9682 (C)	61	62	72	63	79	67	82	74	77	84	76	79
57	CMH 08-282 (C)	65	55	78	65	76	67	72	74	80	86	81	79
58	CMH 08-287 (C)	68	59	65	72	73	66	77	72	73	78	78	74
59	NK6240 (C)	71	61	74	73	81	73	73	72	77	82	73	76
60	CMH 08-292 (F)	56	56	57	71	61	61	72	71	77	73	73	74
	L Mean	67.4	57.6	66.9	67.1	76.4	67.1	75.1	71.1	75.6	76.5	76.7	75.0
	CV (%)	7.1	10.7	12.6	16.2	7.5	11.2	5.0	8.7	5.1	9.4	8.3	7.5
	F (Prob)	0.0	0.5	0.0	0.6	0.0	0.0	0.0	0.7	0.0	0.0	0.1	0.0
	CD (5%)	7.7	9.9	13.6	17.6	9.3	5.4	6.0	10.0	6.3	11.7	10.3	4.0
	CD (1%)	10.2	13.2	18.0	23.3	12.3	7.2	8.0	13.2	8.3	15.4	13.6	5.3

Table No. : 6 (Conti...) Final Plant Stand (000/ha)

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7713	57	66	79	62	66	66	75	74	69	75	61	62	67	69	71
2	AH 8072	62	64	80	67	69	63	80	71	70	71	62	63	62	68	71
3	AH 8753	43	68	79	64	64	61	72	71	72	76	60	66	61	67	68
4	AH1645	56	64	80	67	67	63	71	78	71	71	67	64	64	68	70
5	AH4139	43	60	71	61	58	66	73	74	70	73	58	66	63	67	67
6	AH4272	57	66	77	62	65	65	78	69	59	70	56	62	61	64	65
7	AH5158	61	69	80	67	69	65	77	72	70	65	69	63	61	68	70
8	BH 417202	60	68	77	61	66	63	70	68	75	74	60	60	62	67	70
9	BRMH-17068	49	65	80	64	66	65	73	72	65	70	62	66	66	67	69
10	CMH-15-006	29	61	72	21	46	65	47	76	33	71	61	57	60	59	58
11	CMH-15-008	36	68	65	12	46	65	43	72	20	68	67	58	62	57	55
12	CP 555	66	67	80	61	69	63	67	72	71	78	60	65	60	67	70
13	CP 802	61	67	79	62	67	65	71	67	73	74	65	63	61	67	69
14	DKC 9207	63	66	80	70	70	65	82	69	76	80	63	68	63	71	72
15	GH16352	57	67	80	71	69	66	83	69	69	74	69	65	63	70	71
16	GK 3218	56	66	77	69	67	64	77	72	64	70	69	63	63	68	70
17	HMM 1018	47	66	74	67	64	66	71	73	67	75	63	66	56	68	68
18	HT 519074	52	67	79	69	67	64	75	68	75	75	61	66	62	69	71
19	IM12723	62	68	79	67	68	66	74	74	79	76	60	64	59	69	70
20	IMHSB-19K-12	53	67	79	68	67	66	74	69	68	78	60	61	61	67	69
21	IMHSB-19K-13	57	65	80	63	66	64	78	67	70	78	58	64	61	68	68
22	IMHSB-19K-14	46	69	77	63	63	65	65	71	72	67	69	64	61	67	66
23	IMHVS-102	58	65	78	55	64	66	73	73	65	71	65	62	62	67	68
24	JH 17011	41	70	78	64	64	66	79	67	67	72	66	67	63	68	70
25	JH 18056	47	69	78	68	66	66	75	72	67	72	70	64	59	68	69
26	JH 18057	55	65	80	64	66	65	74	72	71	79	63	65	63	68	69
27	JH 18087	54	67	80	64	66	63	79	70	68	76	69	61	57	68	71
28	JH 18088	57	68	78	66	67	66	79	74	79	75	62	60	57	69	70
29	JH 18091	52	66	80	68	67	65	71	72	67	78	58	64	61	68	71
30	KH 2193	64	66	79	65	69	65	80	74	69	73	60	68	62	69	70
31	KH 5146	60	63	78	68	67	64	78	66	73	77	70	70	65	70	70
32	KMH-8322	54	70	80	64	67	65	81	75	72	76	49	67	63	69	70

Table No. : 6 (Conti...) Final Plant Stand (000/ha)

S. No.	Entry Name	NWPZ					PZ									All
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
33	KMH-8333	50	66	77	55	62	64	73	69	68	73	62	57	61	65	66
34	MM2424	54	68	81	68	67	67	66	75	74	75	55	67	64	67	70
35	NMH 4313	54	67	81	62	66	67	83	73	74	79	62	65	60	70	72
36	PM 19104L	55	65	77	65	66	65	81	80	73	75	59	64	60	70	69
37	PM 19105 L	68	68	77	69	70	65	79	72	69	75	61	64	61	68	70
38	PM 19106 L	56	66	81	65	67	66	81	71	69	80	69	65	61	70	70
39	PM 19107 L	44	66	80	69	65	65	81	75	76	78	60	62	59	69	71
40	PM 19108 L	51	65	79	69	67	65	79	68	74	75	60	65	65	69	71
41	PM 19109 L	43	65	79	63	62	65	76	73	80	72	62	70	58	69	70
42	PM 19110 L	56	67	77	69	67	61	80	74	69	75	61	65	60	68	69
43	PM 19111 L	55	69	80	63	66	65	79	77	66	75	62	69	63	70	70
44	QMH-1604	60	66	77	62	67	63	74	78	65	76	59	66	61	68	69
45	QMH-16101	46	68	79	62	63	65	71	71	71	72	60	65	62	67	68
46	QMH-1617	60	69	73	66	67	66	75	76	68	78	60	65	62	69	70
47	QMH-1697	53	66	80	61	65	65	77	65	67	76	63	65	60	67	67
48	Rasi 6597	56	69	80	69	69	64	78	77	79	77	55	64	63	70	72
49	Rasi 70574	60	66	77	61	66	63	78	77	67	73	61	61	62	68	69
50	SBMH 1817	53	68	70	54	61	65	68	74	67	67	58	58	60	65	64
51	SVMH 1627	52	65	77	52	61	62	62	67	71	73	51	58	59	63	65
52	SYN916801	44	66	78	63	63	64	76	71	70	74	61	66	63	68	69
53	TMMH 853	59	68	71	55	63	63	72	67	53	77	62	63	61	65	64
54	VNR37650	40	65	69	26	51	60	64	72	47	71	56	58	63	61	59
55	VNR4343	56	65	78	65	67	64	71	68	66	76	66	60	57	66	68
56	BIO 9682 (C)	62	66	77	65	67	65	73	77	70	77	59	64	58	68	70
57	CMH 08-282 (C)	54	67	79	69	67	65	81	71	72	74	66	63	61	69	70
58	CMH 08-287 (C)	64	67	76	60	66	64	64	71	69	71	58	62	64	65	68
59	NK6240 (C)	58	67	80	71	69	65	79	71	75	78	67	69	61	71	72
60	CMH 08-292 (F)	42	67	68	55	58	61	67	73	56	66	67	59	61	64	64
	L Mean	53.7	66.4	77.5	61.9	64.9	64.5	73.9	71.9	68.0	74.1	61.9	63.8	61.4	67.4	68.6
	CV (%)	17.3	3.9	4.1	6.7	8.5	3.3	8.9	8.1	12.0	5.7	11.5	5.9	5.7	8.2	8.8
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.7	0.0	0.0	0.4	0.0	0.4	0.0	0.0
	CD (5%)	15.0	4.2	5.2	6.8	4.5	3.5	10.7	9.4	13.2	6.8	11.5	6.1	5.7	3.2	2.1
	CD (1%)	19.9	5.5	6.9	9.0	5.9	4.6	14.1	12.5	17.4	9.0	15.2	8.1	7.5	4.2	2.7

Table No. : 6 (Conti...) **Moisture %**

S. No.	Entry Name	CWZ						NEPZ						
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7713	20.5	16.4	18.7	20.0	22.0	19.6	27.0	27.2	20.1	27.5	23.8	28.6	25.7
2	AH 8072	15.2	17.2	16.0	18.2	21.7	17.6	27.0	24.6	20.2	24.9	23.8	26.8	24.6
3	AH 8753	14.5	16.2	17.5	20.3	21.2	17.7	28.0	24.5	20.6	24.8	25.5	29.1	25.3
4	AH1645	14.6	16.3	16.7	19.3	20.2	17.4	28.5	26.8	20.3	24.0	23.1	28.4	25.1
5	AH4139	13.6	16.6	16.1	19.9	23.0	17.9	27.6	25.5	20.0	25.2	24.2	27.5	25.1
6	AH4272	13.6	16.3	16.1	19.9	21.9	17.5	26.0	26.3	19.5	25.6	23.2	26.8	24.6
7	AH5158	14.0	17.4	15.1	18.4	19.9	16.9	27.9	25.3	19.4	23.1	24.3	22.6	23.8
8	BH 417202	14.5	15.8	14.9	19.3	21.2	17.2	25.2	24.9	19.8	22.6	24.5	27.8	24.2
9	BRMH-17068	17.2	16.2	18.1	18.1	22.8	18.6	27.4	24.7	21.2	26.1	23.1	28.0	25.1
10	CMH-15-006	19.2	16.4	15.4	17.0	22.8	18.2	30.2	26.5	19.9	24.4	24.6	26.2	25.2
11	CMH-15-008	13.7	17.5	17.1	15.3	19.3	16.8	28.4	25.8	19.8	23.8	22.2	26.3	24.4
12	CP 555	19.4	17.3	15.9	19.4	21.3	18.6	28.9	24.2	20.2	25.1	25.9	28.9	25.5
13	CP 802	14.8	17.3	19.4	20.1	22.9	19.0	26.9	25.4	20.1	28.1	22.7	25.8	24.8
14	DKC 9207	18.5	16.4	17.0	18.6	20.4	18.1	28.8	25.7	20.2	25.4	24.8	26.6	25.4
15	GH16352	14.9	17.2	17.7	18.2	20.6	17.7	27.0	23.3	20.2	24.8	22.9	26.2	24.0
16	GK 3218	15.7	15.6	17.0	18.7	22.6	17.9	28.5	24.9	19.9	24.3	25.0	28.1	25.1
17	HMM 1018	13.1	17.1	14.1	19.8	19.8	17.0	25.5	23.3	19.7	21.3	24.1	24.8	23.2
18	HT 519074	15.6	16.6	17.1	16.9	21.4	17.6	27.0	24.2	20.1	28.6	24.7	25.8	25.2
19	IM12723	18.5	15.9	19.6	18.8	21.7	18.7	28.4	26.7	20.3	27.7	23.5	29.7	26.0
20	IMHSB-19K-12	14.5	16.7	14.5	18.3	20.0	16.8	24.1	23.8	19.3	23.7	24.6	30.0	24.3
21	IMHSB-19K-13	14.2	17.3	16.2	18.2	21.7	17.5	27.0	23.8	19.7	22.2	25.0	27.2	24.1
22	IMHSB-19K-14	14.4	16.0	16.1	18.6	22.3	17.4	29.6	25.6	19.9	25.9	25.3	29.5	25.9
23	IMHVS-102	14.3	16.6	16.3	18.4	22.9	17.9	26.3	24.1	19.8	23.7	23.3	27.5	24.2
24	JH 17011	17.1	16.9	17.8	19.6	22.1	18.7	26.9	24.6	20.0	22.1	23.1	28.2	24.1
25	JH 18056	14.7	17.4	18.5	17.7	20.3	17.7	28.2	26.2	20.3	25.9	24.4	28.9	25.6
26	JH 18057	14.5	16.2	17.9	19.4	21.5	17.8	29.0	25.3	20.1	23.7	24.3	29.1	25.2
27	JH 18087	15.0	17.3	17.4	17.3	20.0	17.4	26.7	26.3	19.8	23.6	22.8	29.1	24.8
28	JH 18088	14.6	17.5	17.4	18.6	20.9	17.8	30.0	26.5	19.9	24.6	23.9	24.4	24.8
29	JH 18091	16.3	16.7	17.3	19.4	22.3	18.3	27.0	25.3	20.2	25.5	23.7	28.8	25.1
30	KH 2193	16.4	16.8	17.6	18.8	21.4	18.2	26.2	24.6	20.6	23.5	23.8	28.7	24.4
31	KH 5146	17.3	16.3	16.8	18.2	21.8	18.2	27.4	24.4	20.1	25.9	24.6	28.2	25.1
32	KMH-8322	19.4	16.5	16.1	19.1	21.0	18.4	27.3	25.1	20.3	26.2	24.3	28.0	25.2

Table No. : 6 (Conti...) Moisture %

S. No.	Entry Name	CWZ						NEPZ						
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
33	KMH-8333	16.0	17.6	20.1	17.4	21.2	18.5	29.8	25.4	20.3	28.4	23.6	28.1	25.9
34	MM2424	15.8	15.9	13.3	18.1	18.3	16.3	26.1	23.3	20.0	23.1	23.1	24.2	23.4
35	NMH 4313	15.5	16.0	17.6	20.1	21.2	18.1	26.7	26.0	19.8	27.8	24.6	27.8	25.4
36	PM 19104L	15.8	15.9	16.6	18.3	21.4	17.5	31.0	25.6	20.2	28.7	24.6	29.1	26.5
37	PM 19105 L	17.5	16.1	18.0	18.6	21.8	18.5	28.0	26.5	20.2	25.9	24.5	28.7	25.7
38	PM 19106 L	14.8	17.0	17.6	17.1	21.1	17.5	28.9	24.8	20.3	27.5	23.0	29.4	25.6
39	PM 19107 L	19.8	16.9	17.8	19.7	21.8	19.2	27.2	25.3	20.1	28.5	24.4	30.4	26.0
40	PM 19108 L	17.6	16.6	18.1	19.6	22.0	18.9	28.4	23.4	19.9	27.9	23.4	29.0	25.4
41	PM 19109 L	18.2	15.3	16.1	18.7	21.4	17.9	28.9	25.6	19.9	28.2	25.4	27.5	25.8
42	PM 19110 L	14.7	16.3	17.9	19.4	21.1	17.7	24.9	23.7	19.7	24.4	24.4	29.5	24.4
43	PM 19111 L	15.7	16.9	18.6	19.3	22.0	18.6	28.7	24.8	20.2	27.2	24.9	28.5	25.8
44	QMH-1604	14.6	16.0	14.8	17.1	19.5	16.4	25.0	23.3	19.3	22.0	23.3	27.8	23.5
45	QMH-16101	14.3	15.5	16.8	19.5	21.7	17.5	26.6	24.1	20.2	22.3	22.8	29.6	24.2
46	QMH-1617	14.4	16.8	17.0	21.7	22.6	18.7	27.0	23.4	20.0	24.7	24.9	28.5	24.7
47	QMH-1697	14.1	16.7	15.5	18.9	20.8	17.1	23.2	22.8	19.5	19.5	23.5	25.9	22.4
48	Rasi 6597	18.2	16.5	17.3	18.1	22.0	18.4	29.5	24.5	20.5	25.5	25.4	27.0	25.5
49	Rasi 70574	17.5	15.7	15.9	17.7	22.8	18.0	30.0	23.7	20.4	24.0	24.9	28.8	25.3
50	SBMH 1817	13.9	16.9	18.5	19.5	22.3	18.4	30.1	25.5	20.2	29.4	23.1	28.8	26.2
51	SVMH 1627	14.9	15.5	14.8	20.0	21.6	17.3	28.5	24.8	20.1	25.1	25.2	26.4	25.1
52	SYN916801	13.9	17.6	19.8	16.8	22.5	18.1	30.3	24.6	20.4	30.3	24.4	30.2	26.7
53	TMMH 853	14.4	17.3	16.6	20.3	22.0	18.0	30.2	24.9	20.3	27.7	25.3	29.2	26.2
54	VNR37650	13.9	16.6	18.7	17.8	22.6	18.1	28.4	26.2	20.3	28.3	24.6	27.2	25.9
55	VNR4343	15.5	16.4	17.6	17.9	22.8	18.1	26.5	25.0	20.1	26.5	26.1	24.7	24.8
56	BIO 9682 (C)	15.0	15.6	17.0	18.6	20.6	17.3	26.7	24.2	20.0	23.7	24.1	27.6	24.3
57	CMH 08-282 (C)	14.0	16.8	16.9	17.3	22.2	17.3	26.6	25.4	19.9	24.2	23.5	29.8	24.9
58	CMH 08-287 (C)	15.3	16.7	17.5	16.4	22.3	17.7	27.6	26.8	19.5	26.7	23.5	28.4	25.4
59	NK6240 (C)	15.9	17.0	17.0	18.0	21.1	17.8	28.8	25.9	20.1	22.7	23.4	26.2	24.5
60	CMH 08-292 (F)	13.5	16.4	17.7	18.5	22.8	17.8	26.6	25.0	20.4	25.3	24.5	27.9	25.0
	L Mean	15.6	16.6	17.0	18.6	21.5	17.9	27.7	25.0	20.1	25.3	24.1	27.8	25.0
	CV (%)	10.8	3.0	10.0	6.0	0.0	6.6	3.5	2.1	1.5	4.8	5.5	5.1	4.1
	F (Prob)	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.8	0.0	1.0
	CD (5%)	2.7	0.8	2.8	1.8	0.0	0.8	1.6	0.9	0.5	2.0	2.2	2.3	0.7
	CD (1%)	3.6	1.1	3.7	2.4	0.0	1.1	2.1	1.1	0.6	2.6	2.9	3.0	0.9

Table No. : 6 (Conti...) **Moisture %**

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7713	23.8	22.9	23.6	29.7	25.0	16.7	13.0	20.2	16.5	17.1	17.6	16.9	19.3	17.2	21.3
2	AH 8072	24.7	23.3	22.3	28.9	24.7	15.9	11.2	20.9	16.3	16.2	15.7	14.8	19.2	16.4	20.2
3	AH 8753	27.2	22.7	22.0	26.5	24.7	17.1	10.3	21.6	18.6	16.8	15.3	17.7	18.7	17.1	20.7
4	AH1645	23.5	22.1	20.9	27.8	23.7	15.4	12.1	19.6	17.7	15.7	15.5	14.4	18.8	16.1	20.1
5	AH4139	25.7	23.5	21.2	29.5	25.0	16.1	10.3	20.7	17.1	16.8	16.5	17.9	19.3	16.9	20.7
6	AH4272	25.9	22.4	21.5	26.4	24.1	15.7	12.1	19.3	16.3	16.8	15.7	14.6	19.2	16.3	20.1
7	AH5158	24.8	22.0	22.3	28.8	24.4	16.0	9.7	18.3	17.7	16.2	16.2	14.0	18.8	15.9	19.7
8	BH 417202	24.3	22.2	19.0	25.2	22.6	16.6	11.3	18.4	17.0	16.7	15.6	14.9	18.7	16.0	19.6
9	BRMH-17068	28.4	21.9	20.3	31.6	25.6	16.6	11.2	19.6	17.6	16.9	15.5	19.0	19.3	17.0	20.9
10	CMH-15-006	27.8	21.3	22.0	30.1	25.2	15.2	12.7	21.2	15.2	17.1	14.9	11.7	18.8	15.8	20.4
11	CMH-15-008	25.2	24.4	19.0	29.8	24.8	15.2	10.8	19.3	16.2	17.7	13.3	15.5	19.2	15.9	19.9
12	CP 555	26.1	23.2	21.9	29.6	25.2	16.6	11.3	21.4	17.1	16.7	16.4	17.8	19.2	17.1	21.0
13	CP 802	29.6	22.4	22.6	28.3	25.7	17.9	14.1	19.9	17.4	16.3	16.0	18.8	19.2	17.6	21.2
14	DKC 9207	26.4	22.2	20.2	28.7	24.3	15.8	10.5	19.7	15.9	15.6	15.7	15.3	19.6	16.1	20.4
15	GH16352	24.1	21.8	20.7	26.0	23.4	15.2	9.7	20.6	16.1	17.0	15.6	16.1	19.0	16.2	19.8
16	GK 3218	27.8	22.2	19.2	26.4	23.9	16.2	15.2	20.0	17.3	17.4	17.0	15.1	18.9	17.1	20.5
17	HMM 1018	25.2	24.5	19.0	25.1	23.4	15.4	11.3	17.3	16.0	16.4	15.0	14.9	18.6	15.6	19.2
18	HT 519074	26.5	23.4	22.3	28.7	25.1	15.9	13.9	17.7	17.5	17.0	15.8	15.5	19.2	16.7	20.5
19	IM12723	29.2	22.1	25.7	30.7	27.0	18.3	11.5	21.0	19.3	17.8	16.4	16.8	19.7	17.7	21.7
20	IMHSB-19K-12	25.5	23.4	20.6	29.8	24.7	16.6	10.8	20.6	16.2	16.4	15.1	11.9	19.6	15.9	19.8
21	IMHSB-19K-13	27.0	21.9	20.3	27.0	24.1	16.3	14.9	19.5	16.6	16.1	15.4	16.6	18.8	16.8	20.1
22	IMHSB-19K-14	27.4	21.6	20.0	27.3	23.9	16.7	9.6	19.6	16.8	17.4	15.7	13.6	19.6	16.0	20.3
23	IMHVS-102	25.6	23.1	21.6	28.3	24.5	17.0	12.8	19.4	17.4	17.6	15.7	17.2	19.5	17.1	20.4
24	JH 17011	27.8	23.6	23.8	29.1	26.3	16.4	12.4	21.2	16.1	15.7	14.8	16.3	19.2	16.5	20.7
25	JH 18056	27.1	22.5	20.5	28.1	24.6	15.3	12.5	20.1	17.9	17.0	16.1	11.9	19.2	16.3	20.5
26	JH 18057	27.4	21.1	23.1	28.9	25.1	16.3	13.0	20.8	18.0	17.7	16.0	17.3	19.5	17.3	20.9
27	JH 18087	27.9	23.3	20.7	26.7	24.7	16.5	11.9	18.9	17.6	17.0	14.9	14.6	19.4	16.4	20.2
28	JH 18088	26.9	22.9	23.8	30.4	26.0	16.9	12.8	20.1	17.7	16.1	16.4	16.8	19.2	17.1	20.8
29	JH 18091	24.0	23.0	21.3	28.0	24.0	17.1	13.5	22.4	17.6	16.2	16.4	19.4	19.1	17.6	20.8
30	KH 2193	28.0	21.5	24.5	30.1	26.1	17.3	10.7	18.2	18.3	16.0	16.7	16.3	19.8	16.6	20.7
31	KH 5146	26.7	23.1	20.8	28.8	24.8	17.5	10.3	18.7	16.0	16.5	15.8	15.1	19.4	16.2	20.5
32	KMH-8322	27.9	23.5	22.4	29.7	26.0	17.9	12.8	21.5	18.7	17.6	15.2	18.1	19.2	17.6	21.2

Table No. : 6 (Conti...) **Moisture %**

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
33	KMH-8333	26.4	23.8	24.6	31.4	26.5	17.2	13.8	24.1	18.5	17.3	15.9	17.2	18.9	17.9	21.6
34	MM2424	24.4	22.4	19.9	20.6	21.6	17.5	10.4	19.1	15.9	17.3	14.5	14.4	18.8	16.0	19.0
35	NMH 4313	27.1	20.8	19.5	28.1	24.1	17.1	15.2	20.9	17.1	16.5	15.4	14.7	19.1	17.0	20.6
36	PM 19104L	29.1	22.4	19.9	30.5	25.7	16.5	13.5	22.5	15.5	16.4	15.8	18.8	19.8	17.3	21.2
37	PM 19105 L	23.0	22.8	26.0	30.0	25.3	16.3	14.2	22.5	19.2	18.1	16.4	18.9	19.3	18.1	21.4
38	PM 19106 L	25.8	23.1	22.2	31.6	25.7	15.8	10.7	19.0	17.9	17.3	15.8	14.9	19.5	16.4	20.7
39	PM 19107 L	24.7	22.4	23.4	33.2	25.8	17.4	10.4	21.3	17.5	17.4	15.6	16.6	19.5	16.9	21.3
40	PM 19108 L	25.2	22.4	21.1	29.7	24.7	15.8	15.4	19.0	18.1	15.2	15.6	12.2	19.8	16.4	20.8
41	PM 19109 L	25.6	22.5	21.9	29.6	24.9	16.9	10.0	20.2	16.2	17.3	16.3	11.9	18.9	16.1	20.5
42	PM 19110 L	26.3	22.3	21.1	28.1	24.5	16.1	13.5	21.1	15.2	16.8	15.5	15.7	19.0	16.6	20.3
43	PM 19111 L	27.7	22.9	23.1	31.3	26.2	16.1	14.4	20.3	19.3	16.8	16.4	16.1	19.4	17.2	21.3
44	QMH-1604	24.4	22.8	19.0	26.2	23.0	15.7	9.7	18.8	15.6	15.5	14.5	14.3	18.9	15.3	19.0
45	QMH-16101	23.8	23.0	19.6	25.7	23.0	15.8	12.2	19.1	16.4	16.6	15.5	16.3	18.9	16.3	19.8
46	QMH-1617	24.7	25.4	21.4	27.3	24.8	16.1	12.9	20.2	17.2	17.6	15.4	13.2	18.6	16.5	20.5
47	QMH-1697	27.1	22.2	18.1	23.9	22.8	15.4	10.7	15.6	15.4	16.7	14.7	15.4	19.0	15.4	18.9
48	Rasi 6597	24.4	23.0	21.2	29.6	24.6	16.1	12.7	21.5	18.0	15.9	15.5	19.3	19.0	17.3	20.9
49	Rasi 70574	23.6	22.5	24.6	28.7	24.8	17.0	10.6	21.5	16.0	16.8	15.0	16.4	19.1	16.5	20.5
50	SBMH 1817	26.4	22.7	25.1	29.9	26.0	16.0	12.8	21.6	16.3	17.9	16.9	14.9	19.8	16.9	21.2
51	SVMH 1627	23.8	21.7	19.9	30.2	23.7	15.7	14.4	20.1	15.8	16.1	15.9	15.2	19.2	16.5	20.2
52	SYN916801	27.0	22.9	23.6	30.3	26.1	17.0	12.2	20.9	18.7	17.4	17.5	19.2	19.9	17.9	21.6
53	TMMH 853	27.8	21.4	21.5	31.2	25.4	16.2	13.1	19.3	17.7	17.9	14.9	13.1	19.7	16.5	20.9
54	VNR37650	26.5	23.4	23.8	29.5	25.8	16.7	11.6	21.4	17.7	18.1	16.6	18.5	19.6	17.5	21.3
55	VNR4343	26.4	23.6	24.9	30.9	26.4	17.0	11.8	21.3	17.8	16.4	15.7	14.8	19.4	16.8	20.8
56	BIO 9682 (C)	26.3	23.4	23.5	29.6	25.5	16.9	10.8	21.5	17.8	16.6	15.7	15.4	19.5	16.8	20.4
57	CMH 08-282 (C)	26.8	23.4	23.1	28.9	25.5	17.1	12.2	19.0	15.5	17.2	15.7	15.8	18.7	16.5	20.4
58	CMH 08-287 (C)	25.5	23.1	23.4	29.8	25.5	16.5	12.5	20.9	17.2	17.6	16.5	16.8	19.0	17.1	20.9
59	NK6240 (C)	27.2	23.9	18.7	25.5	24.0	16.2	11.9	19.0	16.2	17.0	15.6	17.4	18.9	16.5	20.2
60	CMH 08-292 (F)	25.5	23.0	19.8	26.9	23.7	16.1	14.7	22.0	17.1	17.1	15.7	14.1	19.2	16.9	20.4
	L Mean	26.1	22.7	21.7	28.6	24.8	16.4	12.1	20.2	17.1	16.8	15.7	15.8	19.2	16.7	20.5
	CV (%)	8.3	5.1	4.6	4.8	6.0	3.0	11.5	9.9	6.4	4.3	3.2	0.0	2.1	6.1	5.7
	F (Prob)	0.1	0.1	0.0	0.0	1.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.0	1.0
	CD (5%)	3.5	1.9	1.6	2.2	1.2	0.8	2.3	3.2	1.8	1.2	0.8	0.0	0.6	0.6	0.4
	CD (1%)	4.6	2.5	2.1	2.9	1.6	1.1	3.0	4.3	2.3	1.6	1.1	0.0	0.9	0.8	0.5

Table No. : 6 (Conti...)		Days to 75% Dry husk												
S. No.	Entry Name	CWZ						NEPZ						
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7713	96	89	98	84	91	92	93	97	95	96	91	92	94
2	AH 8072	93	88	98	87	94	92	91	91	94	89	87	91	91
3	AH 8753	93	88	99	88	93	92	89	91	94	85	87	90	89
4	AH1645	92	89	92	86	92	90	86	91	93	89	86	88	89
5	AH4139	93	90	98	87	95	92	91	91	94	92	86	91	91
6	AH4272	95	88	95	86	93	91	90	94	96	92	87	92	92
7	AH5158	94	89	93	89	93	91	92	92	94	92	87	90	91
8	BH 417202	93	88	94	88	93	91	86	89	93	89	87	90	89
9	BRMH-17068	99	92	100	88	98	95	93	92	95	96	91	93	93
10	CMH-15-006	95	92	99	89	95	94	91	97	95	97	90	95	94
11	CMH-15-008	94	93	98	90	93	93	96	94	95	96	90	94	94
12	CP 555	97	89	98	85	98	94	91	95	95	96	90	94	93
13	CP 802	95	91	100	85	98	94	92	97	98	94	89	92	93
14	DKC 9207	99	90	102	88	102	96	92	94	97	97	90	94	94
15	GH16352	94	89	98	88	94	93	93	91	95	95	87	90	92
16	GK 3218	94	90	97	85	93	92	88	92	96	92	87	91	91
17	HMM 1018	93	91	92	88	91	91	87	91	94	88	87	92	90
18	HT 519074	98	90	99	86	97	94	91	93	94	96	89	90	92
19	IM12723	98	89	103	89	99	96	93	95	96	98	90	94	94
20	IMHSB-19K-12	93	89	93	88	92	91	87	90	94	92	88	91	90
21	IMHSB-19K-13	94	89	95	88	92	92	90	93	94	87	87	90	90
22	IMHSB-19K-14	98	87	100	84	98	93	92	92	97	95	90	94	93
23	IMHVS-102	94	90	95	91	91	92	90	93	96	94	88	92	92
24	JH 17011	94	88	96	86	94	92	90	90	93	89	86	89	90
25	JH 18056	96	89	98	90	95	94	91	94	95	95	87	94	93
26	JH 18057	98	90	100	85	96	94	94	96	96	96	90	93	94
27	JH 18087	97	88	99	86	96	93	88	90	96	95	87	91	91
28	JH 18088	97	91	97	91	96	94	90	93	94	91	88	93	92
29	JH 18091	99	89	97	89	98	94	93	93	95	96	91	93	93
30	KH 2193	97	89	97	87	98	93	92	95	94	96	89	92	93
31	KH 5146	98	77	100	90	99	93	93	91	95	96	87	92	92
32	KMH-8322	99	89	99	88	95	94	90	96	96	95	88	90	93

Table No. : 6 (Conti...) Days to 75% Dry husk

S. No.	Entry Name	CWZ						NEPZ						
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
33	KMH-8333	98	91	102	89	100	96	91	96	96	95	88	94	93
34	MM2424	93	89	93	90	94	92	90	92	93	90	87	93	91
35	NMH 4313	95	89	99	87	98	94	92	93	94	96	88	91	92
36	PM 19104L	97	90	101	88	100	95	96	96	95	102	89	95	96
37	PM 19105 L	99	89	99	90	99	95	90	98	97	99	90	93	95
38	PM 19106 L	100	90	103	90	101	97	94	96	96	96	90	94	95
39	PM 19107 L	98	91	102	88	100	96	94	97	96	105	90	94	96
40	PM 19108 L	101	91	101	88	99	96	93	94	96	98	90	93	94
41	PM 19109 L	96	91	99	91	100	95	95	98	96	95	91	94	94
42	PM 19110 L	96	89	99	88	95	94	90	89	95	94	87	91	91
43	PM 19111 L	100	91	102	90	100	97	95	95	97	98	90	95	95
44	QMH-1604	92	89	97	88	93	92	90	93	95	91	87	90	91
45	QMH-16101	94	89	98	88	92	92	89	95	95	92	88	91	92
46	QMH-1617	90	89	98	83	92	90	90	91	97	94	87	90	91
47	QMH-1697	92	87	93	88	91	90	85	91	93	87	87	92	89
48	Rasi 6597	94	90	96	89	98	93	92	94	95	94	87	91	92
49	Rasi 70574	94	90	97	88	95	93	90	92	94	94	87	92	91
50	SBMH 1817	98	92	102	85	99	95	92	95	95	97	90	91	94
51	SVMH 1627	99	89	99	89	97	95	92	93	95	96	89	94	93
52	SYN916801	99	89	102	90	100	96	92	97	96	97	90	95	95
53	TMMH 853	98	88	100	88	96	94	93	98	95	95	90	94	94
54	VNR37650	99	92	102	89	94	95	94	96	96	97	90	94	94
55	VNR4343	98	88	99	90	100	94	92	93	94	96	88	92	92
56	BIO 9682 (C)	99	89	98	87	97	94	92	96	95	96	90	94	94
57	CMH 08-282 (C)	93	88	92	87	94	91	89	89	95	87	87	91	90
58	CMH 08-287 (C)	95	90	99	89	97	94	91	97	96	93	88	92	93
59	NK6240 (C)	93	88	97	87	92	91	89	91	95	80	86	91	89
60	CMH 08-292 (F)	95	88	97	89	100	94	93	96	94	97	89	95	94
	L Mean	95.9	89.2	98.1	87.8	95.9	93.4	91.2	93.5	95.1	93.9	88.3	92.2	92.4
	CV (%)	1.5	3.1	2.2	3.3	2.0	2.5	1.9	1.8	1.7	3.0	1.1	1.7	2.0
	F (Prob)	0.0	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	2.4	4.5	3.5	4.8	3.2	1.7	2.8	2.7	2.7	4.6	1.6	2.6	1.2
	CD (1%)	3.2	6.0	4.6	6.3	4.2	2.2	3.7	3.6	3.5	6.1	2.1	3.4	1.6

Table No. : 6 (Conti...) **Days to 75% Dry husk**

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7713	99	93	95	106	98	97	105	110	101	106	104	89	103	102	97
2	AH 8072	98	91	93	105	96	96	108	112	100	99	103	87	106	101	96
3	AH 8753	97	88	91	104	95	96	108	110	99	96	98	88	97	99	94
4	AH1645	94	89	90	102	93	94	102	110	99	98	97	86	100	98	93
5	AH4139	89	92	91	102	94	95	104	109	99	96	99	88	102	99	95
6	AH4272	97	92	90	104	96	97	104	110	99	99	101	90	101	100	95
7	AH5158	99	90	92	104	97	96	103	106	100	97	102	86	99	99	95
8	BH 417202	94	90	90	103	94	96	99	107	99	100	96	86	98	98	93
9	BRMH-17068	102	90	96	106	98	98	104	110	100	99	104	87	105	101	97
10	CMH-15-006	100	94	91	108	98	101	106	110	101	106	104	89	100	102	97
11	CMH-15-008	104	94	92	107	99	99	104	114	101	101	100	92	101	102	97
12	CP 555	95	92	93	104	96	96	105	111	100	101	102	88	103	101	96
13	CP 802	101	92	93	106	98	98	105	109	100	100	100	89	102	101	97
14	DKC 9207	98	91	96	104	97	97	104	110	100	100	109	89	106	102	98
15	GH16352	94	88	93	104	94	96	105	110	100	100	101	86	102	100	95
16	GK 3218	94	89	90	104	94	95	103	109	100	97	101	87	101	99	95
17	HMM 1018	97	89	89	102	94	95	104	110	101	99	89	86	98	98	94
18	HT 519074	92	92	95	105	96	96	106	111	101	101	105	88	103	101	96
19	IM12723	98	90	96	105	98	99	107	109	101	97	107	90	107	102	98
20	IMHSB-19K-12	98	91	91	104	96	96	106	110	99	98	99	88	102	100	95
21	IMHSB-19K-13	98	89	91	104	96	96	106	109	99	99	100	89	100	100	95
22	IMHSB-19K-14	95	90	96	104	96	99	104	111	101	105	105	88	106	102	97
23	IMHVS-102	98	90	91	104	96	94	106	109	100	101	96	88	101	100	95
24	JH 17011	94	89	90	104	94	96	103	108	100	101	90	87	100	98	94
25	JH 18056	93	92	95	106	96	96	106	110	99	101	108	89	103	101	97
26	JH 18057	102	91	96	106	98	96	105	108	100	100	109	90	106	102	98
27	JH 18087	92	89	93	102	94	95	100	108	99	99	102	88	102	99	95
28	JH 18088	98	89	96	102	97	94	105	110	98	99	102	89	102	100	96
29	JH 18091	99	89	96	104	97	96	110	111	101	102	104	88	102	102	97
30	KH 2193	99	91	94	104	97	98	104	113	100	103	104	89	106	102	97
31	KH 5146	96	90	94	103	96	97	106	113	101	103	106	88	108	103	97
32	KMH-8322	94	90	94	105	96	97	105	110	99	98	101	89	104	100	96

Table No. : 6 (Conti...) Days to 75% Dry husk

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
33	KMH-8333	97	91	95	104	97	98	106	111	100	100	104	89	104	101	97
34	MM2424	97	91	91	103	96	96	105	108	100	101	99	88	100	100	95
35	NMH 4313	99	88	93	103	95	96	103	109	100	100	100	89	102	100	96
36	PM 19104L	96	93	97	106	98	100	104	113	101	102	105	90	107	103	98
37	PM 19105 L	97	92	96	106	98	99	105	114	99	105	108	90	104	103	98
38	PM 19106 L	98	92	96	107	98	100	105	110	101	101	108	91	106	102	98
39	PM 19107 L	101	93	96	108	99	97	106	109	100	99	107	90	106	102	98
40	PM 19108 L	97	90	97	105	97	99	107	108	101	103	108	90	107	103	98
41	PM 19109 L	100	91	97	107	99	98	106	110	100	99	104	89	103	101	98
42	PM 19110 L	94	89	93	103	95	95	103	108	100	100	104	87	103	100	95
43	PM 19111 L	103	92	95	105	99	99	102	110	101	103	107	89	105	102	99
44	QMH-1604	98	89	89	102	95	96	106	110	100	99	97	85	100	99	95
45	QMH-16101	94	91	94	105	96	98	105	110	99	105	100	88	102	101	96
46	QMH-1617	97	88	95	103	95	95	105	109	99	100	105	86	101	100	95
47	QMH-1697	98	91	91	101	95	95	103	112	100	98	95	86	100	99	94
48	Rasi 6597	92	93	94	104	96	97	108	108	100	98	100	88	101	100	96
49	Rasi 70574	100	91	93	105	97	97	108	111	100	99	103	89	101	101	96
50	SBMH 1817	95	91	95	106	97	98	106	110	100	99	109	89	105	102	97
51	SVMH 1627	99	89	94	105	97	96	104	110	99	104	107	89	103	102	97
52	SYN916801	95	93	97	108	98	99	105	110	100	104	105	92	109	103	98
53	TMMH 853	99	90	96	105	98	98	107	110	101	101	108	89	107	103	98
54	VNR37650	98	91	93	106	97	99	104	112	101	100	106	90	107	103	98
55	VNR4343	98	93	96	104	98	97	106	110	100	107	107	89	107	103	97
56	BIO 9682 (C)	101	90	94	108	98	97	106	109	100	102	106	88	105	102	97
57	CMH 08-282 (C)	100	90	89	105	96	96	102	110	100	95	91	87	99	97	94
58	CMH 08-287 (C)	93	93	95	105	96	96	105	109	101	100	100	89	101	100	96
59	NK6240 (C)	94	91	90	105	95	95	102	109	100	99	102	88	102	99	94
60	CMH 08-292 (F)	98	92	95	108	98	98	106	112	101	110	101	90	102	102	98
	L Mean	97.1	90.7	93.5	104.6	96.5	96.8	104.8	110.0	100.0	100.6	102.3	88.5	102.9	100.7	96.2
	CV (%)	4.3	2.2	1.5	1.4	2.6	1.5	2.5	1.8	1.1	3.3	2.7	1.4	1.7	2.2	2.3
	F (Prob)	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	6.8	3.3	2.3	2.4	2.1	2.4	4.3	3.3	1.7	5.4	4.5	2.0	2.8	1.3	0.7
	CD (1%)	9.0	4.3	3.1	3.2	2.7	3.1	5.7	4.3	2.3	7.1	5.9	2.6	3.7	1.6	1.0

Table No. : 6 (Conti...)		Days to 50% Anthesis												
S. No.	Entry Name	CWZ						NEPZ						
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7713	51	56	58	50	54	54	58	62	55	56	47	55	56
2	AH 8072	50	55	56	49	53	53	56	57	53	51	45	52	52
3	AH 8753	50	55	58	52	54	54	55	57	54	51	46	51	52
4	AH1645	49	54	53	47	53	51	53	57	53	50	43	49	51
5	AH4139	50	57	56	50	54	53	56	57	52	51	45	52	52
6	AH4272	52	55	56	53	54	54	56	61	53	53	47	52	54
7	AH5158	51	55	55	52	53	53	56	57	51	52	44	52	52
8	BH 417202	49	55	54	48	54	52	53	56	52	50	44	51	51
9	BRMH-17068	51	57	57	52	54	54	57	59	51	54	47	53	54
10	CMH-15-006	51	59	60	54	61	57	61	63	55	59	48	56	57
11	CMH-15-008	52	59	59	53	61	57	62	61	54	58	48	56	56
12	CP 555	51	56	55	48	54	53	55	60	52	55	47	54	54
13	CP 802	51	57	59	52	54	55	57	60	54	55	46	54	54
14	DKC 9207	51	58	58	51	54	54	57	59	53	54	47	55	54
15	GH16352	51	54	55	49	53	53	56	57	51	52	44	51	52
16	GK 3218	51	57	56	50	54	53	53	55	52	52	45	53	52
17	HMM 1018	50	55	56	54	55	54	56	58	52	52	45	51	52
18	HT 519074	50	56	57	49	53	53	54	58	53	52	47	51	52
19	IM12723	51	56	59	52	54	55	58	60	54	53	48	55	55
20	IMHSB-19K-12	49	56	55	52	56	54	52	56	53	52	46	52	52
21	IMHSB-19K-13	50	57	58	51	55	54	55	58	52	53	47	52	53
22	IMHSB-19K-14	50	55	56	51	56	54	57	57	53	53	47	54	54
23	IMHVS-102	51	56	56	53	53	54	55	59	53	52	44	51	52
24	JH 17011	51	54	55	49	54	53	56	59	51	51	47	52	52
25	JH 18056	51	55	57	51	52	53	56	60	52	54	46	53	53
26	JH 18057	50	57	58	52	55	54	58	61	55	55	47	54	55
27	JH 18087	50	55	53	49	54	52	53	56	53	51	44	51	51
28	JH 18088	51	58	54	52	54	54	56	58	53	51	47	53	53
29	JH 18091	51	56	54	56	55	54	57	59	52	55	47	54	54
30	KH 2193	50	55	57	53	54	54	58	61	53	56	47	55	55
31	KH 5146	50	54	55	55	54	54	55	57	53	54	46	53	53
32	KMH-8322	51	56	56	50	55	53	56	61	52	52	47	53	54

Table No. : 6 (Conti...) Days to 50% Anthesis

S. No.	Entry Name	CWZ						NEPZ						
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
33	KMH-8333	51	58	57	52	55	54	56	61	53	53	47	55	54
34	MM2424	49	56	53	55	53	53	56	59	52	53	44	53	53
35	NMH 4313	51	56	58	50	54	54	57	59	51	54	47	52	53
36	PM 19104L	53	58	59	54	56	56	61	62	54	57	47	56	56
37	PM 19105 L	50	57	59	54	56	55	56	62	54	54	47	54	55
38	PM 19106 L	52	58	59	55	56	56	60	60	55	55	47	54	55
39	PM 19107 L	53	57	57	53	55	55	61	62	55	58	48	55	56
40	PM 19108 L	52	58	58	55	56	56	58	59	54	56	47	54	55
41	PM 19109 L	51	60	58	53	54	55	59	62	53	53	48	56	55
42	PM 19110 L	50	56	52	49	54	53	55	55	52	52	45	51	52
43	PM 19111 L	54	58	61	55	56	57	60	61	55	58	48	55	56
44	QMH-1604	49	56	53	54	53	53	56	59	50	53	43	51	52
45	QMH-16101	51	56	56	57	56	55	55	60	53	54	47	53	54
46	QMH-1617	48	55	55	45	53	51	55	57	52	50	44	50	51
47	QMH-1697	50	54	54	51	54	53	54	59	52	50	45	52	52
48	Rasi 6597	50	57	55	56	55	54	57	60	51	54	47	53	54
49	Rasi 70574	51	58	58	51	53	54	55	59	51	53	47	52	53
50	SBMH 1817	49	59	58	51	54	54	58	61	52	55	47	52	54
51	SVMH 1627	52	57	59	55	54	55	57	59	53	54	46	53	54
52	SYN916801	51	56	60	55	58	56	58	63	53	56	48	56	56
53	TMMH 853	51	54	57	55	55	55	57	62	53	54	47	54	55
54	VNR37650	51	58	59	55	56	56	57	61	53	55	48	54	55
55	VNR4343	52	55	55	51	54	53	56	59	52	54	46	53	53
56	BIO 9682 (C)	51	56	57	51	53	54	56	61	51	53	48	54	54
57	CMH 08-282 (C)	51	54	55	54	54	54	55	57	52	51	45	52	52
58	CMH 08-287 (C)	50	56	58	51	54	54	57	62	54	53	47	54	55
59	NK6240 (C)	51	55	55	51	53	53	54	60	52	51	45	52	52
60	CMH 08-292 (F)	53	55	60	55	55	56	58	62	53	56	48	55	55
	L Mean	50.7	56.3	56.6	52.0	54.6	54.0	56.4	59.3	52.8	53.5	46.4	53.1	53.6
	CV (%)	2.2	3.4	1.7	6.5	2.0	3.6	1.7	2.6	2.7	2.3	2.0	1.8	2.3
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	1.8	3.1	1.6	5.5	1.8	1.4	1.6	2.5	2.3	2.0	1.5	1.6	0.8
	CD (1%)	2.4	4.1	2.1	7.3	2.4	1.8	2.1	3.3	3.1	2.6	1.9	2.1	1.1

Table No. : 6 (Conti...)		Days to 50% Anthesis														
S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7713	50	58	57	60	57	55	64	60	58	64	61	52	62	59	57
2	AH 8072	52	56	54	58	55	53	62	61	57	57	59	50	59	57	55
3	AH 8753	52	53	55	58	54	53	62	60	57	54	60	50	60	57	55
4	AH1645	49	55	54	57	54	51	60	61	56	56	58	49	55	56	53
5	AH4139	49	57	54	58	54	52	62	59	56	54	58	51	57	56	54
6	AH4272	48	58	54	60	55	55	62	60	57	58	60	53	62	58	56
7	AH5158	48	55	54	59	54	52	61	56	58	56	58	49	58	56	54
8	BH 417202	47	55	55	58	54	51	59	58	56	58	58	49	56	56	53
9	BRMH-17068	52	56	60	61	57	55	63	60	58	58	58	50	58	57	56
10	CMH-15-006	53	61	60	63	59	57	64	60	58	64	62	56	59	60	58
11	CMH-15-008	55	61	58	62	59	56	63	64	59	59	64	56	62	60	58
12	CP 555	50	57	56	59	55	53	62	61	57	59	58	51	59	58	55
13	CP 802	51	59	56	61	57	56	62	59	58	59	60	53	60	58	56
14	DKC 9207	51	56	56	59	56	54	62	60	57	58	59	52	61	58	56
15	GH16352	49	54	54	58	54	53	62	61	57	58	59	48	58	57	54
16	GK 3218	50	53	53	60	54	53	62	59	57	55	58	50	57	56	54
17	HMM 1018	49	55	56	57	54	52	62	60	58	57	57	49	58	57	55
18	HT 519074	46	58	56	59	55	53	62	61	58	60	58	51	57	57	55
19	IM12723	50	55	58	60	56	56	63	60	59	57	61	53	59	59	56
20	IMHSB-19K-12	49	55	55	58	54	54	64	60	56	57	58	50	56	57	54
21	IMHSB-19K-13	48	53	55	59	54	52	62	60	56	57	59	53	59	57	55
22	IMHSB-19K-14	47	54	55	59	54	56	62	61	58	63	60	51	60	59	55
23	IMHVS-102	49	56	55	59	55	51	62	59	57	60	57	51	58	57	55
24	JH 17011	50	53	56	59	55	54	60	58	57	58	58	50	60	57	54
25	JH 18056	50	57	58	60	56	53	62	60	57	59	59	52	57	57	55
26	JH 18057	53	55	57	59	56	54	63	58	58	58	60	53	61	58	56
27	JH 18087	51	53	54	57	54	52	57	58	57	58	58	50	56	56	53
28	JH 18088	51	54	56	59	55	53	61	59	56	58	59	52	59	57	55
29	JH 18091	51	53	57	60	55	54	62	61	58	60	58	51	58	58	56
30	KH 2193	53	57	56	59	56	55	61	63	57	62	59	52	61	59	56
31	KH 5146	51	54	54	59	54	54	63	62	58	61	58	51	58	58	55
32	KMH-8322	49	56	55	60	55	55	63	60	57	58	60	53	60	58	55

Table No. : 6 (Conti...) Days to 50% Anthesis

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
33	KMH-8333	51	56	57	61	56	55	62	61	57	59	60	52	61	58	56
34	MM2424	49	57	56	58	55	52	61	58	57	60	58	50	59	57	55
35	NMH 4313	50	54	57	59	55	53	62	59	57	56	58	52	61	57	55
36	PM 19104L	49	58	58	61	57	56	61	62	58	59	57	53	61	58	57
37	PM 19105 L	48	58	57	60	56	56	62	65	57	64	61	53	60	60	57
38	PM 19106 L	47	57	59	62	56	56	62	59	58	59	59	53	60	58	57
39	PM 19107 L	52	59	60	62	58	54	62	59	57	57	59	53	61	58	57
40	PM 19108 L	50	56	56	59	55	56	63	58	58	60	59	53	61	59	56
41	PM 19109 L	50	56	57	61	56	55	62	60	57	58	60	52	60	58	56
42	PM 19110 L	50	53	54	58	54	51	60	58	57	58	57	49	57	56	54
43	PM 19111 L	50	56	58	60	56	56	62	60	59	62	60	52	61	59	57
44	QMH-1604	48	54	53	58	53	53	62	60	57	58	56	48	56	56	54
45	QMH-16101	48	56	56	60	55	56	63	60	57	63	60	51	59	58	56
46	QMH-1617	46	53	53	58	53	52	62	59	57	58	58	49	58	57	53
47	QMH-1697	49	56	57	56	55	50	61	62	57	57	59	49	60	57	54
48	Rasi 6597	49	56	57	58	55	53	63	58	57	57	59	51	58	57	55
49	Rasi 70574	49	56	55	60	55	54	63	61	57	58	61	51	60	58	55
50	SBMH 1817	47	56	57	60	55	55	61	60	57	57	60	52	61	58	56
51	SVMH 1627	52	54	56	60	55	53	62	60	57	63	61	52	59	58	56
52	SYN916801	48	58	58	63	57	56	62	60	58	62	62	55	62	59	57
53	TMMH 853	49	55	56	60	55	55	64	60	58	60	60	53	61	59	56
54	VNR37650	50	58	57	61	56	55	62	61	58	59	60	53	61	59	57
55	VNR4343	51	58	56	60	56	55	62	60	57	65	59	52	60	59	56
56	BIO 9682 (C)	54	53	54	62	56	54	64	59	58	60	59	51	58	58	55
57	CMH 08-282 (C)	50	55	54	58	55	53	59	60	57	53	57	50	57	56	54
58	CMH 08-287 (C)	48	57	57	60	56	53	61	59	58	58	60	52	60	58	56
59	NK6240 (C)	49	54	54	59	54	53	61	59	56	57	57	51	57	56	54
60	CMH 08-292 (F)	50	58	56	61	56	55	63	62	59	69	62	54	61	60	57
	L Mean	49.8	55.8	56.0	59.4	55.3	53.8	61.9	59.9	57.4	58.9	59.1	51.4	59.2	57.7	55.4
	CV (%)	5.7	4.2	2.2	2.0	3.7	1.8	2.1	3.4	1.3	6.0	2.0	1.8	2.2	3.0	3.1
	F (Prob)	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	4.6	3.8	2.0	2.0	1.7	1.6	2.1	3.3	1.2	5.7	1.9	1.5	2.1	1.0	0.6
	CD (1%)	6.1	5.1	2.6	2.6	2.2	2.1	2.8	4.3	1.6	7.5	2.6	2.0	2.8	1.3	0.8

Table No. : 6 (Conti...)		Days to 50% Silking												
S. No.	Entry Name	CWZ						NEPZ						
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7713	54	59	60	53	56	57	59	64	56	58	51	60	58
2	AH 8072	53	58	57	53	56	56	57	59	54	53	49	57	55
3	AH 8753	53	58	59	56	57	57	57	59	55	53	49	55	55
4	AH1645	53	58	54	50	56	54	53	59	54	52	46	53	53
5	AH4139	53	60	58	53	56	56	57	59	53	53	48	57	55
6	AH4272	54	58	58	56	57	57	57	63	55	55	50	57	56
7	AH5158	53	59	56	56	55	56	57	59	52	54	47	56	54
8	BH 417202	53	61	55	52	56	55	53	57	54	52	47	55	53
9	BRMH-17068	54	60	58	56	57	57	59	61	53	56	50	59	56
10	CMH-15-006	55	63	60	57	63	60	63	65	56	61	52	60	60
11	CMH-15-008	54	62	60	57	63	59	64	63	56	61	51	61	59
12	CP 555	53	59	56	52	57	55	56	63	53	56	50	60	56
13	CP 802	54	60	61	55	56	57	58	63	56	57	49	58	57
14	DKC 9207	54	60	58	54	57	57	58	62	54	56	50	59	56
15	GH16352	54	58	56	53	56	55	59	59	53	54	47	56	55
16	GK 3218	54	60	57	53	57	56	54	57	53	54	48	57	54
17	HMM 1018	53	58	57	58	57	57	57	59	53	54	49	56	55
18	HT 519074	53	58	58	53	55	56	55	61	54	54	49	55	55
19	IM12723	53	59	60	56	56	57	59	63	55	55	50	60	57
20	IMHSB-19K-12	52	59	57	56	59	56	53	58	54	54	49	56	54
21	IMHSB-19K-13	54	59	58	55	57	57	57	60	53	55	50	57	55
22	IMHSB-19K-14	53	58	58	55	58	56	59	59	54	55	51	59	56
23	IMHVS-102	54	59	58	57	57	57	57	60	55	54	47	55	55
24	JH 17011	53	58	55	52	57	55	57	60	52	53	49	56	55
25	JH 18056	54	58	59	55	55	56	58	62	53	55	49	58	56
26	JH 18057	53	60	60	57	57	57	59	64	56	57	51	58	57
27	JH 18087	52	58	55	53	57	55	53	58	54	53	47	56	53
28	JH 18088	54	61	55	56	57	56	57	60	54	53	50	57	55
29	JH 18091	53	59	56	60	58	57	60	61	54	57	50	59	57
30	KH 2193	53	58	58	56	56	57	60	64	55	57	51	59	57
31	KH 5146	53	57	57	58	57	56	57	59	54	56	48	58	55
32	KMH-8322	53	59	58	53	57	56	57	63	53	54	51	57	56

Table No. : 6 (Conti...) Days to 50% Silking

S. No.	Entry Name	CWZ						NEPZ						
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
33	KMH-8333	54	61	59	56	58	57	57	64	54	55	51	59	56
34	MM2424	52	59	55	59	56	56	57	61	53	55	48	58	55
35	NMH 4313	54	59	59	53	56	57	58	61	52	56	50	56	55
36	PM 19104L	55	61	60	57	58	58	63	64	55	60	51	61	59
37	PM 19105 L	53	60	60	58	58	58	57	64	55	56	51	59	57
38	PM 19106 L	55	60	61	59	58	59	61	63	57	57	50	60	58
39	PM 19107 L	55	61	59	57	57	58	62	64	56	60	50	59	59
40	PM 19108 L	55	61	59	59	58	59	59	61	56	58	50	58	57
41	PM 19109 L	54	62	59	57	57	58	61	64	54	55	52	60	58
42	PM 19110 L	53	59	54	53	57	55	56	57	54	54	48	55	54
43	PM 19111 L	56	62	62	59	58	59	61	63	57	61	52	61	59
44	QMH-1604	51	59	56	57	56	56	58	61	51	55	47	56	55
45	QMH-16101	55	59	58	60	58	58	57	62	54	56	50	57	56
46	QMH-1617	51	58	56	49	56	54	55	59	54	52	47	55	54
47	QMH-1697	53	58	56	55	56	56	56	61	53	52	48	56	54
48	Rasi 6597	53	60	57	60	58	57	59	62	53	56	50	58	57
49	Rasi 70574	54	62	59	55	56	57	57	61	52	55	50	57	55
50	SBMH 1817	52	62	59	55	57	57	60	63	53	57	50	57	57
51	SVMH 1627	55	60	61	59	56	58	58	61	54	55	49	59	56
52	SYN916801	54	59	61	58	60	58	58	64	54	58	52	60	58
53	TMMH 853	55	57	58	59	58	57	59	64	54	57	50	59	57
54	VNR37650	54	61	61	59	58	58	60	64	54	58	52	60	58
55	VNR4343	54	58	57	55	56	56	58	62	53	56	48	57	56
56	BIO 9682 (C)	54	59	59	55	56	56	57	63	52	55	51	58	56
57	CMH 08-282 (C)	53	57	55	58	56	56	56	59	53	53	47	56	54
58	CMH 08-287 (C)	53	59	59	55	56	57	58	64	55	55	50	58	57
59	NK6240 (C)	54	57	56	54	56	56	55	59	53	53	48	56	54
60	CMH 08-292 (F)	55	58	61	59	58	58	61	64	55	59	51	61	58
	L Mean	53.6	59.3	58.0	55.7	57.1	56.7	57.8	61.4	54.0	55.5	49.5	57.7	56.0
	CV (%)	2.2	3.6	1.7	5.8	1.9	3.4	2.0	2.4	2.6	2.2	2.4	2.1	2.3
	F (Prob)	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	1.9	3.4	1.6	5.3	1.7	1.4	1.9	2.3	2.3	2.0	1.9	1.9	0.8
	CD (1%)	2.6	4.5	2.1	7.0	2.3	1.8	2.4	3.1	3.0	2.6	2.5	2.6	1.1

Table No. : 6 (Conti...) **Days to 50% Silking**

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7713	53	60	58	63	59	58	66	62	60	62	63	54	64	61	59
2	AH 8072	54	58	55	61	57	56	65	64	59	55	61	52	60	59	57
3	AH 8753	54	54	56	61	56	56	64	62	59	52	61	52	61	59	57
4	AH1645	51	56	55	60	55	55	62	62	58	54	59	51	57	57	55
5	AH4139	51	58	56	61	56	56	64	61	58	52	61	53	59	58	56
6	AH4272	51	58	56	63	57	57	64	62	59	56	62	55	63	60	58
7	AH5158	51	56	57	61	57	55	63	58	59	53	60	51	59	58	56
8	BH 417202	50	56	57	60	56	55	61	59	59	56	59	51	59	57	56
9	BRMH-17068	55	57	61	64	59	59	65	62	60	56	59	52	60	59	58
10	CMH-15-006	55	59	61	66	60	60	65	62	60	62	63	57	61	61	60
11	CMH-15-008	58	62	60	65	61	59	64	66	61	57	64	58	64	62	60
12	CP 555	52	59	57	62	57	56	64	63	60	57	60	53	61	59	57
13	CP 802	54	60	58	63	59	59	63	61	60	56	62	54	62	60	58
14	DKC 9207	54	56	58	61	57	58	64	62	59	56	62	54	62	60	58
15	GH16352	52	55	56	61	56	56	64	62	59	56	61	50	60	59	56
16	GK 3218	52	54	55	62	56	56	64	61	59	53	60	52	59	58	56
17	HMM 1018	52	55	58	60	56	55	63	62	60	56	59	51	60	58	57
18	HT 519074	49	55	57	62	56	56	65	63	60	57	60	53	59	59	57
19	IM12723	54	55	59	62	58	59	64	61	61	52	63	55	61	60	58
20	IMHSB-19K-12	50	56	56	61	56	56	66	62	59	55	60	52	59	58	56
21	IMHSB-19K-13	51	54	56	62	56	56	64	61	58	55	61	55	59	59	57
22	IMHSB-19K-14	49	55	57	62	56	59	64	63	60	61	62	53	61	60	58
23	IMHVS-102	52	57	56	62	57	54	64	61	59	58	60	53	60	59	57
24	JH 17011	52	54	58	62	57	56	62	60	59	57	59	52	61	58	56
25	JH 18056	52	58	58	63	58	56	63	62	59	57	61	54	59	59	57
26	JH 18057	55	55	59	62	58	57	64	60	60	56	63	55	62	60	58
27	JH 18087	54	54	56	60	56	55	58	60	59	55	59	52	58	57	55
28	JH 18088	54	55	57	61	57	55	63	62	58	55	60	54	60	58	57
29	JH 18091	54	55	59	63	57	57	64	63	60	58	60	53	60	60	58
30	KH 2193	55	58	58	61	58	58	63	65	59	59	60	54	63	60	58
31	KH 5146	52	55	56	61	56	57	64	65	60	59	61	53	60	60	57
32	KMH-8322	51	58	56	62	57	58	64	62	58	54	62	54	61	59	57

Table No. : 6 (Conti...) **Days to 50% Silking**

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
33	KMH-8333	53	58	58	63	58	58	64	63	59	57	63	54	62	60	58
34	MM2424	51	57	57	61	57	55	62	60	59	58	59	52	61	58	57
35	NMH 4313	53	56	58	62	57	56	63	61	59	55	60	54	62	59	57
36	PM 19104L	51	59	60	64	59	60	63	65	60	58	60	55	63	60	59
37	PM 19105 L	51	59	59	63	58	60	64	66	59	62	64	55	62	61	59
38	PM 19106 L	50	58	61	65	59	60	64	62	60	57	61	55	62	60	59
39	PM 19107 L	55	57	60	65	59	57	64	61	59	55	61	55	63	59	59
40	PM 19108 L	53	57	58	62	57	60	64	60	60	59	61	55	62	60	58
41	PM 19109 L	53	57	58	63	58	58	63	62	59	56	63	54	61	60	58
42	PM 19110 L	53	54	55	60	55	54	61	60	59	57	59	51	59	58	56
43	PM 19111 L	54	57	60	63	58	59	64	62	61	59	62	54	63	61	60
44	QMH-1604	51	55	55	61	55	56	64	62	59	56	59	50	59	58	56
45	QMH-16101	49	57	57	63	57	59	65	62	59	61	63	53	60	60	58
46	QMH-1617	48	54	56	61	55	55	64	61	59	56	60	51	59	58	56
47	QMH-1697	52	57	59	59	57	54	63	64	59	55	60	51	60	58	56
48	Rasi 6597	52	57	58	61	57	57	65	60	59	55	61	53	60	59	58
49	Rasi 70574	53	58	56	63	58	57	65	63	59	56	62	53	62	59	57
50	SBMH 1817	50	57	59	63	57	58	63	62	59	55	62	54	63	59	58
51	SVMH 1627	54	54	57	63	57	56	63	62	59	61	63	53	61	60	58
52	SYN916801	51	60	59	65	59	59	64	62	60	60	63	57	64	61	59
53	TMMH 853	52	56	57	63	57	58	65	62	60	57	63	54	62	60	58
54	VNR37650	53	59	59	64	58	59	64	64	60	57	63	55	62	61	59
55	VNR4343	53	59	57	62	58	57	64	62	59	64	61	54	62	60	58
56	BIO 9682 (C)	56	54	56	64	58	56	65	61	60	58	60	53	60	59	58
57	CMH 08-282 (C)	52	56	55	62	56	56	61	62	59	51	58	52	58	57	56
58	CMH 08-287 (C)	51	58	58	63	57	57	63	61	60	56	63	54	62	59	58
59	NK6240 (C)	52	56	56	62	56	55	63	61	59	55	59	52	59	58	56
60	CMH 08-292 (F)	53	59	59	64	59	59	65	64	61	67	64	55	62	62	60
	L Mean	52.4	56.8	57.5	62.2	57.2	57.0	63.7	62.0	59.4	56.8	61.1	53.4	60.8	59.3	57.5
	CV (%)	5.4	4.9	1.9	2.0	3.8	1.7	2.1	3.3	1.3	6.1	1.9	1.8	1.9	2.9	3.0
	F (Prob)	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	4.6	4.5	1.8	2.0	1.7	1.6	2.2	3.3	1.2	5.6	1.9	1.6	1.9	1.0	0.6
	CD (1%)	6.1	5.9	2.4	2.6	2.3	2.1	2.8	4.3	1.6	7.4	2.5	2.1	2.5	1.3	0.8

Table No. : 6 (Conti...)		Plant Height (cm)												
S. No.	Entry Name	CWZ						NEPZ						
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7713	263	182	189	172	192	200	207	174	175	194	221	164	188
2	AH 8072	251	186	186	182	197	202	202	167	164	184	225	161	184
3	AH 8753	236	179	180	174	181	190	206	173	163	178	194	163	180
4	AH1645	262	173	194	170	203	200	204	174	172	187	229	172	191
5	AH4139	233	203	165	177	189	194	177	163	155	171	203	137	169
6	AH4272	271	172	200	172	205	205	205	208	186	204	235	191	206
7	AH5158	246	189	178	170	194	195	194	165	172	175	214	157	180
8	BH 417202	269	193	196	172	212	207	219	184	180	201	230	179	199
9	BRMH-17068	258	203	191	171	208	207	192	177	172	180	208	157	181
10	CMH-15-006	229	194	189	170	171	191	184	187	163	184	210	173	183
11	CMH-15-008	236	172	184	177	169	188	178	187	169	188	228	173	187
12	CP 555	273	178	199	172	180	200	207	178	177	205	225	166	192
13	CP 802	257	197	179	177	200	201	197	171	174	178	220	167	185
14	DKC 9207	274	199	202	176	203	211	234	208	207	213	243	189	216
15	GH16352	253	183	181	172	191	196	191	169	158	180	216	146	177
16	GK 3218	258	199	189	172	195	203	196	178	172	186	224	153	183
17	HMM 1018	248	185	182	161	177	190	182	161	159	175	217	170	176
18	HT 519074	244	196	185	177	190	199	181	173	168	176	216	169	180
19	IM12723	263	192	210	181	220	212	223	204	197	203	243	183	210
20	IMHSB-19K-12	250	175	173	164	188	191	198	165	165	183	211	163	181
21	IMHSB-19K-13	255	186	191	172	203	201	173	172	182	185	225	161	184
22	IMHSB-19K-14	258	184	181	182	216	203	213	170	173	188	221	164	188
23	IMHVS-102	252	187	193	177	210	204	206	169	165	192	221	180	187
24	JH 17011	283	185	196	175	201	208	212	159	183	201	233	193	196
25	JH 18056	245	189	195	184	201	202	203	175	168	173	213	176	185
26	JH 18057	261	200	210	175	199	209	209	221	183	206	230	194	207
27	JH 18087	273	184	204	171	220	211	228	207	182	211	237	189	210
28	JH 18088	270	187	211	166	205	208	221	196	202	201	235	192	209
29	JH 18091	268	201	189	169	204	206	199	184	174	205	221	169	192
30	KH 2193	254	189	186	165	180	195	194	156	168	181	229	163	182
31	KH 5146	231	193	185	168	185	192	189	170	156	168	207	136	171
32	KMH-8322	243	179	174	166	195	192	195	172	162	191	207	160	181

Table No. : 6 (Conti...) **Plant Height (cm)**

S. No.	Entry Name	CWZ						NEPZ						
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
33	KMH-8333	243	183	179	167	186	192	208	178	177	184	203	165	188
34	MM2424	262	196	190	175	224	209	211	187	179	194	215	176	195
35	NMH 4313	259	191	207	181	225	212	213	198	191	211	231	177	204
36	PM 19104L	271	169	175	167	204	197	220	213	189	209	227	175	206
37	PM 19105 L	264	196	213	174	220	214	225	195	194	208	252	183	209
38	PM 19106 L	280	179	205	169	219	210	226	183	199	209	244	195	211
39	PM 19107 L	284	195	204	174	237	219	253	235	203	246	237	222	232
40	PM 19108 L	278	183	195	175	197	206	221	199	195	216	241	190	210
41	PM 19109 L	285	184	213	170	228	216	239	205	200	226	242	189	217
42	PM 19110 L	255	174	194	169	212	201	195	173	165	185	214	171	184
43	PM 19111 L	288	210	204	173	225	219	232	226	200	212	244	200	218
44	QMH-1604	272	169	193	173	197	203	193	190	177	191	217	167	188
45	QMH-16101	247	188	178	173	198	196	200	173	159	189	233	160	186
46	QMH-1617	266	180	199	177	196	202	221	208	180	194	218	181	200
47	QMH-1697	244	191	171	166	185	191	184	182	165	178	220	168	181
48	Rasi 6597	241	179	174	180	198	195	195	186	158	190	207	165	184
49	Rasi 70574	268	167	194	172	205	202	200	181	182	179	230	182	192
50	SBMH 1817	247	187	170	174	186	193	177	177	159	169	211	166	176
51	SVMH 1627	262	190	193	174	219	206	220	195	184	207	227	184	203
52	SYN916801	243	193	188	177	198	200	200	187	171	182	225	174	191
53	TMMH 853	237	174	164	177	189	188	185	160	155	165	209	156	171
54	VNR37650	277	204	200	171	205	212	213	193	184	161	237	181	194
55	VNR4343	253	182	188	170	214	202	220	193	189	195	222	184	201
56	BIO 9682 (C)	227	188	186	172	198	193	208	176	166	185	224	162	187
57	CMH 08-282 (C)	285	177	209	176	222	214	221	206	199	210	240	185	211
58	CMH 08-287 (C)	279	193	210	171	224	215	230	212	205	216	254	182	216
59	NK6240 (C)	263	169	191	174	210	201	197	172	169	178	231	160	186
60	CMH 08-292 (F)	270	179	202	171	223	209	208	189	194	189	228	181	197
	L Mean	258.6	186.4	190.9	172.8	202.1	202.2	205.6	184.8	177.3	192.1	224.6	173.2	192.9
	CV (%)	4.2	8.4	3.6	5.0	7.2	5.8	6.8	8.0	5.5	5.9	4.8	7.8	6.5
	F (Prob)	0.0	0.4	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	17.4	25.5	11.2	13.9	23.5	8.6	22.6	23.9	15.7	18.3	17.5	21.7	8.3
	CD (1%)	23.1	33.7	14.8	18.4	31.0	11.3	29.9	31.6	20.7	24.3	23.1	28.8	10.9

Table No. : 6 (Conti...) **Plant Height (cm)**

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7713	239	184	231	290	236	204	183	202	136	145	210	179	261	191	201
2	AH 8072	241	191	239	275	237	216	178	196	140	143	203	185	266	192	200
3	AH 8753	226	193	230	254	226	203	154	179	135	129	178	178	265	181	191
4	AH1645	241	192	226	278	236	211	167	194	137	143	188	181	256	188	200
5	AH4139	222	168	212	252	213	190	141	175	117	105	164	165	252	167	182
6	AH4272	261	202	232	288	247	228	176	219	143	141	216	194	275	202	212
7	AH5158	236	174	238	264	226	203	153	182	133	145	180	166	254	181	192
8	BH 417202	241	191	241	289	242	218	196	229	147	145	205	191	282	203	210
9	BRMH-17068	241	188	222	295	236	217	176	202	141	146	190	183	284	195	201
10	CMH-15-006	207	186	216	243	214	207	161	194	125	140	192	189	278	190	193
11	CMH-15-008	235	182	222	240	219	206	159	194	138	144	191	172	249	185	192
12	CP 555	238	189	234	285	237	217	176	209	149	147	197	195	275	198	204
13	CP 802	226	180	227	274	224	214	166	218	142	151	208	186	261	197	199
14	DKC 9207	263	206	244	310	256	226	200	217	165	153	223	204	283	211	221
15	GH16352	236	192	229	270	233	210	170	222	126	137	188	160	269	187	195
16	GK 3218	229	176	224	271	224	211	180	210	134	150	186	190	259	191	198
17	HMM 1018	232	179	223	269	225	205	174	203	124	162	165	162	260	183	190
18	HT 519074	237	174	224	280	227	207	179	207	126	142	175	177	244	182	194
19	IM12723	263	201	243	308	253	235	176	208	140	160	231	196	275	206	217
20	IMHSB-19K-12	233	173	216	279	226	220	175	199	126	137	184	186	252	186	193
21	IMHSB-19K-13	232	186	220	277	228	217	173	197	122	137	204	184	261	190	198
22	IMHSB-19K-14	240	183	238	274	233	211	177	211	130	127	208	192	281	194	202
23	IMHVS-102	238	182	229	273	230	217	177	215	137	146	193	191	258	193	201
24	JH 17011	252	207	231	290	246	214	165	213	146	131	197	189	267	194	207
25	JH 18056	233	193	232	277	233	204	185	197	140	143	194	183	280	191	200
26	JH 18057	249	215	228	292	247	228	184	216	153	147	222	212	275	208	215
27	JH 18087	249	201	237	298	247	230	191	213	158	147	219	191	262	203	215
28	JH 18088	259	210	243	303	253	227	199	219	166	156	230	206	285	213	218
29	JH 18091	241	184	230	282	235	212	194	211	143	124	201	182	278	193	203
30	KH 2193	226	191	223	276	230	207	170	192	135	136	192	171	271	186	195
31	KH 5146	223	183	216	260	220	204	183	204	135	138	187	171	263	186	189
32	KMH-8322	229	179	215	273	224	209	164	192	121	148	187	173	249	183	192

Table No. : 6 (Conti...) **Plant Height (cm)**

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
33	KMH-8333	238	189	230	278	235	211	181	214	140	138	204	181	270	194	199
34	MM2424	252	189	231	289	239	227	187	222	141	140	204	185	269	198	207
35	NMH 4313	260	212	230	289	249	225	170	207	154	143	204	202	267	201	213
36	PM 19104L	255	206	245	286	250	216	161	204	151	123	203	190	260	193	208
37	PM 19105 L	261	190	245	303	251	230	184	200	156	154	217	202	288	206	217
38	PM 19106 L	269	215	248	301	257	221	205	205	162	145	230	225	293	212	220
39	PM 19107 L	268	228	257	318	268	233	187	200	147	145	218	208	280	205	227
40	PM 19108 L	246	208	240	288	245	223	200	209	155	142	202	195	275	200	213
41	PM 19109 L	263	215	250	306	258	233	191	216	164	155	223	215	284	212	223
42	PM 19110 L	250	188	227	274	236	212	315	199	138	136	206	180	268	191	199
43	PM 19111 L	266	190	243	316	255	235	195	224	158	165	230	209	283	215	224
44	QMH-1604	236	184	228	288	234	209	179	213	138	148	191	173	286	194	202
45	QMH-16101	236	182	226	275	229	209	172	201	137	153	192	184	278	193	198
46	QMH-1617	246	207	224	284	239	222	267	212	146	142	207	191	282	200	208
47	QMH-1697	224	176	221	273	225	208	156	191	134	141	189	187	270	188	194
48	Rasi 6597	240	185	234	274	233	212	168	198	135	132	187	183	262	188	197
49	Rasi 70574	237	175	228	287	233	215	187	212	143	144	201	195	253	195	203
50	SBMH 1817	227	175	223	267	224	203	164	212	119	124	177	152	252	178	189
51	SVMH 1627	252	203	243	285	247	218	176	205	162	157	218	195	275	204	212
52	SYN916801	235	205	248	284	243	219	181	202	131	132	188	195	274	193	203
53	TMMH 853	212	166	243	266	221	193	134	203	128	120	172	166	249	175	185
54	VNR37650	253	195	248	292	245	228	192	216	147	152	213	201	275	205	211
55	VNR4343	251	191	230	295	243	230	176	212	142	129	200	195	288	199	208
56	BIO 9682 (C)	229	183	223	295	233	219	173	215	144	131	189	181	270	192	198
57	CMH 08-282 (C)	267	203	244	294	251	221	190	212	155	148	213	201	276	203	217
58	CMH 08-287 (C)	264	208	243	310	256	233	208	226	165	158	219	194	266	209	221
59	NK6240 (C)	235	175	215	284	228	204	172	209	131	140	177	188	271	189	198
60	CMH 08-292 (F)	259	193	226	287	242	228	168	203	158	157	230	199	269	206	211
	L Mean	242.5	191.3	231.8	282.9	237.1	216.1	180.7	206.4	141.5	142.3	200.2	187.6	269.3	194.8	203.7
	CV (%)	3.5	5.2	6.8	3.8	4.9	3.2	20.2	7.6	8.2	8.4	4.6	5.4	5.9	6.2	5.9
	F (Prob)	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	13.9	16.1	25.7	17.6	9.5	11.1	59.1	25.5	18.8	19.4	15.0	16.3	25.5	7.4	4.2
	CD (1%)	18.4	21.3	34.0	23.3	12.5	14.7	78.2	33.7	24.9	25.6	19.9	21.6	33.7	9.7	5.5

Table No. : 6 (Conti...) **Shelling %**

S. No.	Entry Name	CWZ						NEPZ						
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7713	77	72	85	83	75	78	81	76	82	78	83	87	81
2	AH 8072	78	79	88	87	76	82	82	77	83	79	82	83	81
3	AH 8753	77	70	83	83	76	78	75	77	81	86	82	88	82
4	AH1645	79	80	86	85	75	81	79	80	82	83	83	84	82
5	AH4139	78	76	86	81	74	79	75	74	82	79	83	85	80
6	AH4272	78	73	82	82	74	78	73	77	81	79	86	85	80
7	AH5158	78	79	87	77	77	80	77	76	80	79	83	84	80
8	BH 417202	76	77	83	86	77	80	77	78	83	80	85	81	81
9	BRMH-17068	77	82	86	81	78	81	74	74	82	76	81	80	78
10	CMH-15-006	77	62	81	80	74	75	79	75	83	77	83	79	79
11	CMH-15-008	75	76	87	84	72	79	73	74	81	81	85	75	78
12	CP 555	77	77	86	81	75	80	80	77	83	82	86	84	82
13	CP 802	78	80	82	84	79	80	75	75	81	78	83	84	79
14	DKC 9207	77	84	85	82	77	81	79	76	84	75	84	86	81
15	GH16352	76	80	84	84	78	80	77	77	85	75	83	81	80
16	GK 3218	77	80	87	77	77	80	76	77	82	80	84	87	81
17	HMM 1018	78	77	88	83	72	80	76	74	82	80	84	77	79
18	HT 519074	76	80	87	75	80	79	76	78	81	84	85	82	81
19	IM12723	78	69	84	81	77	78	77	80	82	76	84	85	81
20	IMHSB-19K-12	77	78	86	83	75	80	80	76	84	79	84	88	82
21	IMHSB-19K-13	77	80	83	82	75	79	75	75	81	81	87	87	81
22	IMHSB-19K-14	78	72	88	84	73	79	79	76	82	80	87	82	81
23	IMHVS-102	77	73	85	87	76	79	79	75	84	80	84	92	82
24	JH 17011	77	81	85	84	76	80	74	74	82	77	83	80	79
25	JH 18056	77	78	83	87	79	81	71	79	83	71	85	80	78
26	JH 18057	78	78	83	88	78	81	78	80	82	77	85	85	81
27	JH 18087	78	79	85	84	77	81	76	78	81	70	85	82	79
28	JH 18088	78	79	87	83	78	81	80	79	82	84	84	87	83
29	JH 18091	79	76	87	83	76	80	82	78	83	82	83	90	83
30	KH 2193	77	78	82	83	79	80	72	77	83	79	84	84	80
31	KH 5146	78	77	89	84	75	81	76	79	84	84	84	84	82
32	KMH-8322	78	77	88	83	79	81	85	79	82	84	86	91	84

Table No. : 6 (Conti...) Shelling %

S. No.	Entry Name	CWZ						NEPZ						
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
33	KMH-8333	78	79	91	83	76	82	84	76	81	81	83	87	82
34	MM2424	78	74	88	84	78	80	76	74	83	75	86	85	80
35	NMH 4313	78	78	84	80	79	80	75	80	82	75	83	84	80
36	PM 19104L	78	68	88	81	76	78	79	76	83	76	85	86	81
37	PM 19105 L	78	78	85	78	77	80	80	77	84	74	83	88	81
38	PM 19106 L	79	81	86	74	78	80	73	77	84	76	83	81	79
39	PM 19107 L	79	79	83	90	78	82	80	77	82	80	85	88	82
40	PM 19108 L	78	79	88	84	78	81	80	74	81	85	85	90	83
41	PM 19109 L	79	79	85	80	80	81	77	75	82	79	84	84	80
42	PM 19110 L	79	80	83	88	77	81	77	77	80	76	86	85	80
43	PM 19111 L	78	76	85	83	76	80	73	74	82	73	86	67	76
44	QMH-1604	77	76	87	80	76	79	76	75	83	83	82	82	80
45	QMH-16101	76	77	85	82	76	80	78	76	83	79	87	77	80
46	QMH-1617	78	74	90	80	75	79	77	76	81	81	85	86	81
47	QMH-1697	77	80	89	88	73	81	79	75	81	84	86	78	81
48	Rasi 6597	79	79	86	83	79	81	81	77	83	81	85	85	82
49	Rasi 70574	76	69	83	81	76	77	71	76	82	71	84	78	77
50	SBMH 1817	76	78	81	83	77	79	75	78	82	70	85	81	78
51	SVMH 1627	77	72	85	77	75	78	78	74	81	78	84	59	76
52	SYN916801	77	77	80	81	76	78	78	80	82	69	82	84	79
53	TMMH 853	75	80	81	80	75	78	75	77	82	75	84	78	78
54	VNR37650	77	81	83	84	73	79	78	74	82	77	84	83	79
55	VNR4343	79	80	86	81	77	81	77	79	83	81	86	89	83
56	BIO 9682 (C)	77	60	83	77	80	76	76	75	82	78	82	84	80
57	CMH 08-282 (C)	78	81	87	72	77	78	76	76	83	78	86	82	80
58	CMH 08-287 (C)	77	82	79	83	76	80	76	77	83	74	84	83	79
59	NK6240 (C)	78	76	85	82	75	80	75	75	82	81	87	85	81
60	CMH 08-292 (F)	77	77	84	82	74	79	77	78	81	73	84	76	78
	L Mean	77.5	76.9	85.2	82.2	76.4	79.6	77.1	76.5	82.2	78.3	84.3	83.1	80.0
	CV (%)	1.5	6.4	3.7	3.9	0.0	3.8	1.9	1.7	1.2	3.7	1.9	0.0	2.0
	F (Prob)	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.1	0.0	1.0
	CD (5%)	1.8	8.0	5.1	5.2	0.0	2.2	2.4	2.1	1.6	4.7	2.6	0.0	1.1
	CD (1%)	2.4	10.5	6.8	6.9	0.0	2.9	3.1	2.8	2.1	6.2	3.4	0.0	1.5

Table No. : 6 (Conti...) **Shelling %**

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7713	85	81	86	83	84	80	88	78	80	79	85	80	81	82	81
2	AH 8072	81	81	85	81	82	80	86	79	80	80	86	84	81	82	82
3	AH 8753	83	81	86	81	83	79	85	79	77	79	81	85	77	80	81
4	AH1645	86	80	86	84	84	79	86	79	79	79	83	83	82	81	82
5	AH4139	85	81	85	81	83	79	87	81	79	79	86	84	79	82	81
6	AH4272	79	80	78	79	79	79	83	78	77	78	80	82	79	79	79
7	AH5158	85	81	86	84	84	82	86	80	80	80	81	83	80	82	81
8	BH 417202	82	83	85	81	83	80	83	79	78	79	83	81	78	80	81
9	BRMH-17068	83	81	84	82	83	77	84	77	76	79	76	81	78	79	80
10	CMH-15-006	71	81	84	80	79	80	87	77	78	76	84	81	78	80	79
11	CMH-15-008	72	81	79	84	79	80	86	81	77	77	78	83	81	80	79
12	CP 555	81	81	86	85	83	79	87	79	78	82	84	83	82	82	82
13	CP 802	80	81	86	83	82	80	84	79	80	76	85	82	79	81	81
14	DKC 9207	80	82	86	84	83	81	86	77	78	80	85	85	81	82	81
15	GH16352	79	81	85	82	82	78	83	78	78	77	82	83	76	79	80
16	GK 3218	85	82	86	81	83	80	85	78	80	78	83	83	81	81	81
17	HMM 1018	83	82	83	75	81	79	85	80	77	77	82	84	79	81	80
18	HT 519074	87	82	86	84	84	79	85	79	78	80	84	83	81	81	81
19	IM12723	85	81	86	85	84	80	86	82	79	78	84	84	82	82	81
20	IMHSB-19K-12	86	81	86	85	84	82	87	79	81	79	85	84	82	82	82
21	IMHSB-19K-13	75	81	85	82	81	81	84	80	79	78	83	84	78	81	81
22	IMHSB-19K-14	83	81	86	81	83	80	86	78	80	78	85	84	82	82	81
23	IMHVS-102	83	83	86	84	84	79	86	79	78	78	83	84	79	81	81
24	JH 17011	78	82	85	83	82	79	85	78	79	81	84	83	81	81	80
25	JH 18056	82	82	81	81	82	78	81	79	76	79	81	80	78	79	80
26	JH 18057	84	82	85	84	84	79	84	77	76	82	80	83	78	80	81
27	JH 18087	88	79	86	80	83	80	84	80	77	81	82	85	81	81	81
28	JH 18088	85	81	86	85	84	80	86	81	80	80	84	86	82	82	82
29	JH 18091	83	82	86	86	84	82	89	79	79	83	87	85	80	83	83
30	KH 2193	79	82	86	82	82	80	85	80	77	77	86	85	81	81	81
31	KH 5146	84	81	86	84	84	80	87	79	79	79	84	85	81	82	82
32	KMH-8322	87	82	86	81	84	82	90	83	80	83	86	85	83	84	84

Table No. : 6 (Conti...) **Shelling %**

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
33	KMH-8333	88	81	86	83	85	79	89	81	79	83	86	82	84	83	83
34	MM2424	85	81	86	86	84	81	87	79	82	79	85	84	81	82	82
35	NMH 4313	80	81	85	81	82	79	84	79	76	77	85	84	77	80	80
36	PM 19104L	82	81	85	82	83	80	87	79	80	77	88	82	82	82	81
37	PM 19105 L	87	81	86	82	84	80	85	83	80	80	84	86	82	82	82
38	PM 19106 L	80	82	83	82	82	80	85	82	76	78	85	84	82	82	81
39	PM 19107 L	84	80	85	85	84	81	89	79	81	80	87	85	83	83	83
40	PM 19108 L	85	81	86	84	84	79	89	81	80	82	88	82	84	83	83
41	PM 19109 L	83	80	86	83	83	80	84	81	79	78	83	84	83	81	81
42	PM 19110 L	82	80	86	84	83	80	83	78	79	80	85	85	79	81	81
43	PM 19111 L	77	80	82	82	80	81	85	79	78	77	85	84	80	81	79
44	QMH-1604	83	80	85	81	82	81	87	81	79	78	84	84	77	81	81
45	QMH-16101	82	81	82	82	82	79	83	78	78	77	81	80	78	79	80
46	QMH-1617	83	82	85	81	83	78	86	80	78	76	86	83	80	81	81
47	QMH-1697	77	82	86	82	82	81	86	81	77	80	85	83	78	81	81
48	Rasi 6597	83	83	86	85	84	80	88	80	79	79	86	84	80	82	82
49	Rasi 70574	79	80	83	83	81	80	82	80	78	75	81	81	75	79	78
50	SBMH 1817	78	81	83	83	82	79	80	80	77	76	81	79	77	79	79
51	SVMH 1627	84	82	86	86	84	80	87	79	80	80	84	83	83	82	80
52	SYN916801	79	82	82	84	82	80	78	77	77	74	81	80	78	78	79
53	TMMH 853	77	81	83	82	81	79	82	82	77	76	79	83	75	79	79
54	VNR37650	75	82	84	83	81	82	88	81	81	78	84	84	81	82	81
55	VNR4343	84	80	86	84	84	80	86	78	79	81	80	84	80	81	82
56	BIO 9682 (C)	80	84	83	80	82	79	82	81	78	77	83	84	79	80	79
57	CMH 08-282 (C)	85	81	85	83	83	81	85	81	78	80	84	84	78	81	81
58	CMH 08-287 (C)	82	80	84	85	83	80	83	78	76	76	82	83	77	80	80
59	NK6240 (C)	82	82	86	84	84	80	84	79	78	79	83	84	79	81	81
60	CMH 08-292 (F)	80	82	80	80	80	78	83	78	76	77	84	80	79	79	79
	L Mean	82.0	81.2	84.7	82.7	82.7	79.8	85.2	79.5	78.5	78.7	83.5	83.2	79.9	81.0	80.8
	CV (%)	5.0	1.8	0.9	1.6	2.8	1.0	1.0	2.9	2.0	2.0	1.6	0.0	2.9	1.9	2.6
	F (Prob)	0.0	0.4	0.0	0.0	1.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	1.0	1.0
	CD (5%)	6.7	2.4	1.3	2.2	1.8	1.3	1.4	3.8	2.5	2.6	2.1	0.0	3.8	0.9	0.7
	CD (1%)	8.8	3.1	1.7	2.9	2.4	1.7	1.8	5.0	3.3	3.4	2.8	0.0	5.0	1.2	0.9

Table No. : 7 **Trial No. 594 (Early Maturity) AVT-I**

Yield (Kg/ha)

S. No.	Entry Name	NHZ																				All India	
		BAJU		BARA		DHAU		GOSS		IMPH		KANG		POOC		RAJO		SRIN		VPKA		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	FH3875	10803	5	7155	5	4015	6	981	7	11650	5	7401	3	3392	6	9129	2	7915	3	8259	3	7747	5	7747	5
2	KMH17-89	11161	3	6173	6	7298	1	1931	2	13938	3	10242	1	4054	1	8087	5	8211	1	8705	1	8652	1	8652	1
3	PMH5 (C)	8162	7	2100	7	4291	3	1649	3	4767	7	6721	6	3921	2	7868	6	7891	4	7020	5	5860	7	5860	7
4	VIVEK HYB-45 (C)	10850	4	8620	3	4038	5	1413	6	12845	4	6948	5	2283	7	10335	1	7121	7	7247	4	7810	4	7810	4
5	BIO 605 (C)	12387	1	11082	1	4137	4	1588	5	15269	1	6430	7	3398	5	8535	4	7471	6	8483	2	8577	2	8577	2
6	DKC7074 (C)	11266	2	10863	2	4328	2	3424	1	14383	2	8059	2	3735	3	7685	7	7589	5	7012	6	8324	3	8324	3
7	LMH 5119 (F)	9794	6	8048	4	3669	7	1624	4	10004	6	7033	4	3730	4	8782	3	8023	2	6963	7	7338	6	7338	6
	CV (%)	6.7	.	13.9	.	9.0	.	38.0	.	13.0	.	4.6	.	28.9	.	18.7	.	9.2	.	12.8	.	13.2	.	13.2	.
	F (Prob)	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.5	.	0.5	.	0.6	.	0.2	.	0.0	.	0.0	.
	CD (5%)	1269.1	.	1907.7	.	726.4	.	1218.1	.	2727.2	.	623.2	.	1798.5	.	2870.1	.	1269.3	.	1745.3	.	551.2	.	551.2	.
	CD (1%)	1779.2	.	2674.4	.	1018.4	.	1707.7	.	3823.3	.	873.7	.	2521.3	.	4023.7	.	1779.5	.	2446.7	.	729.1	.	729.1	.

Gain in Yield (%) over BIO 605 (C)

S. No.	Entry Name	NHZ																				All India	
		BAJU		BARA		DHAU		GOSS		IMPH		KANG		POOC		RAJO		SRIN		VPKA		NHZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	FH3875	-12.79	5	-35.44	5	-2.94	6	-38.23	7	-23.70	5	15.11	3	-0.18	6	6.97	2	5.94	3	-2.65	3	-9.68	5	-9.68	5
2	KMH17-89	-9.90	3	-44.30	6	76.42	1	21.59	2	-8.72	3	59.29	1	19.32	1	-5.25	5	9.90	1	2.61	1	0.88	1	0.88	1
3	BIO 605 (C)	0.00	1	0.00	1	0.00	4	0.00	5	0.00	1	0.00	7	0.00	5	0.00	4	0.00	6	0.00	2	0.00	2	0.00	2
4	DKC7074 (C)	-9.05	2	-1.98	2	4.61	2	115.61	1	-5.80	2	25.33	2	9.92	3	-9.96	7	1.57	5	-17.34	6	-2.95	3	-2.95	3
5	PMH5 (C)	-34.11	7	-81.05	7	3.72	3	3.86	3	-68.78	7	4.53	6	15.40	2	-7.81	6	5.61	4	-17.25	5	-31.68	7	-31.68	7
6	VIVEK HYB-45 (C)	-12.40	4	-22.22	3	-2.38	5	-11.00	6	-15.88	4	8.06	5	-32.82	7	21.09	1	-4.69	7	-14.58	4	-8.95	4	-8.95	4
7	LMH 5119 (F)	-20.93	6	-27.38	4	-11.31	7	2.25	4	-34.48	6	9.38	4	9.77	4	2.89	3	7.38	2	-17.92	7	-14.44	6	-14.44	6

Gain in Yield (%) over DKC7074 (C)

S. No.	Entry Name	NHZ																				All India	
		BAJU		BARA		DHAU		GOSS		IMPH		KANG		POOC		RAJO		SRIN		VPKA		NHZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	FH3875	-4.11	5	-34.13	5	-7.22	6	-71.35	7	-19.00	5	-8.16	3	-9.19	6	18.80	2	4.30	3	17.77	3	-6.94	5	-6.94	5
2	KMH17-89	-0.93	3	-43.18	6	68.65	1	-43.61	2	-3.09	3	27.09	1	8.56	1	5.24	5	8.20	1	24.13	1	3.94	1	3.94	1
3	BIO 605 (C)	9.95	1	2.02	1	-4.41	4	-53.62	5	6.16	1	-20.21	7	-9.02	5	11.06	4	-1.55	6	20.98	2	3.03	2	3.03	2
4	DKC7074 (C)	0.00	2	0.00	2	0.00	2	0.00	1	0.00	2	0.00	2	0.00	3	0.00	7	0.00	5	0.00	6	0.00	3	0.00	3
5	PMH5 (C)	-27.55	7	-80.67	7	-0.85	3	-51.83	3	-66.86	7	-16.60	6	4.99	2	2.39	6	3.98	4	0.11	5	-29.60	7	-29.60	7
6	VIVEK HYB-45 (C)	-3.69	4	-20.65	3	-6.68	5	-58.72	6	-10.69	4	-13.78	5	-38.88	7	34.49	1	-6.16	7	3.35	4	-6.18	4	-6.18	4
7	LMH 5119 (F)	-13.07	6	-25.91	4	-15.22	7	-52.58	4	-30.45	6	-12.73	4	-0.13	4	14.27	3	5.72	2	-0.70	7	-11.84	6	-11.84	6

Table No. : 7 (Conti...)

Gain in Yield (%) over PMH5 (C)

S. No.	Entry Name	NHZ																				All India	
		BAJU		BARA		DHAU		GOSS		IMPH		KANG		POOC		RAJO		SRIN		VPKA		NHZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	FH3875	32.36	5	240.72	5	-6.42	6	-40.53	7	144.38	5	10.11	3	-13.50	6	16.03	2	0.31	3	17.64	3	32.19	5	32.19	5
2	KMH17-89	36.75	3	193.94	6	70.09	1	17.07	2	192.39	3	52.38	1	3.40	1	2.78	5	4.06	1	23.99	1	47.64	1	47.64	1
3	BIO 605 (C)	51.77	1	427.74	1	-3.59	4	-3.72	5	220.30	1	-4.34	7	-13.35	5	8.47	4	-5.32	6	20.84	2	46.36	2	46.36	2
4	DKC7074 (C)	38.04	2	417.29	2	0.85	2	107.60	1	201.71	2	19.90	2	-4.76	3	-2.34	7	-3.83	5	-0.11	6	42.05	3	42.05	3
5	PMH5 (C)	0.00	7	0.00	7	0.00	3	0.00	3	0.00	7	0.00	6	0.00	2	0.00	6	0.00	4	0.00	5	0.00	7	0.00	7
6	VIVEK HYB-45 (C)	32.94	4	310.47	3	-5.88	5	-14.31	6	169.45	4	3.38	5	-41.79	7	31.35	1	-9.76	7	3.23	4	33.27	4	33.27	4
7	LMH 5119 (F)	20.00	6	283.26	4	-14.50	7	-1.55	4	109.85	6	4.64	4	-4.88	4	11.60	3	1.67	2	-0.81	7	25.22	6	25.22	6

Gain in Yield (%) over VIVEK HYBRID-45

S. No.	Entry Name	NHZ																				All India	
		BAJU		BARA		DHAU		GOSS		IMPH		KANG		POOC		RAJO		SRIN		VPKA		NHZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	FH3875	-0.44	5	-16.99	5	-0.57	6	-30.60	7	-9.30	5	6.52	3	48.59	6	-11.67	2	11.15	3	13.96	3	-0.81	5	-0.81	5
2	KMH17-89	2.86	3	-28.39	6	80.72	1	36.62	2	8.51	3	47.40	1	77.62	1	-21.75	5	15.31	1	20.11	1	10.79	1	10.79	1
3	BIO 605 (C)	14.16	1	28.57	1	2.44	4	12.36	5	18.87	1	-7.46	7	48.86	5	-17.42	4	4.92	6	17.06	2	9.82	2	9.82	2
4	DKC7074 (C)	3.83	2	26.02	2	7.16	2	142.26	1	11.98	2	15.98	2	63.62	3	-25.64	7	6.57	5	-3.24	6	6.59	3	6.59	3
5	PMH5 (C)	-24.78	7	-75.64	7	6.25	3	16.70	3	-62.89	7	-3.27	6	71.79	2	-23.87	6	10.81	4	-3.13	5	-24.96	7	-24.96	7
6	VIVEK HYB-45 (C)	0.00	4	0.00	3	0.00	5	0.00	6	0.00	4	0.00	5	0.00	7	0.00	1	0.00	7	0.00	4	0.00	4	0.00	4
7	LMH 5119 (F)	-9.74	6	-6.63	4	-9.15	7	14.89	4	-22.12	6	1.22	4	63.41	4	-15.03	3	12.66	2	-3.91	7	-6.03	6	-6.03	6

Table No. : 7 (Conti...)

Number of cobs

S. No.	Entry Name	NHZ											All India
		BAJU	BARA	DHAU	GOSS	IMPH	KANG	POOC	RAJO	SRIN	VPKA	NHZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3875	46	56	71	27	44	77	37	65	77	57	56	56
2	KMH17-89	49	53	75	37	49	78	33	65	74	67	58	58
3	BIO 605 (C)	46	58	73	23	47	77	38	66	74	55	56	56
4	DKC7074 (C)	53	62	75	40	50	77	27	61	74	59	58	58
5	PMH5 (C)	45	44	74	24	30	73	37	64	76	49	52	52
6	VIVEK HYB-45 (C)	49	58	73	33	46	73	26	69	75	58	56	56
7	LMH 5119 (F)	109	55	73	34	48	76	32	67	75	55	56	56
	Mean	48.2	55.0	73.5	31.0	44.9	75.7	32.9	65.4	75.0	57.3	55.9	55.9
	CV (%)	6.5	7.1	2.3	23.2	16.4	2.6	24.3	5.9	3.5	12.2	9.3	9.3
	F (Prob)	0.1	0.0	0.1	0.1	0.1	0.1	0.4	0.4	0.8	0.2	0.0	0.0
	CD (5%)	5.6	7.0	3.0	12.8	13.1	3.4	14.2	6.9	4.7	12.5	2.7	2.7
	CD (1%)	7.8	9.8	4.1	17.9	18.4	4.8	19.9	9.7	6.5	17.5	3.5	3.5

Ear height (cm)

S. No.	Entry Name	NHZ											All India
		BAJU	BARA	DHAU	GOSS	IMPH	KANG	POOC	RAJO	SRIN	VPKA	NHZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3875	90	76	109	59	98	109	86	99	110	125	96	96
2	KMH17-89	114	120	115	83	111	122	104	103	97	150	112	112
3	BIO 605 (C)	122	123	121	78	108	115	101	99	101	160	113	113
4	DKC7074 (C)	117	114	111	72	105	114	115	95	100	170	111	111
5	PMH5 (C)	117	113	113	69	107	111	81	99	112	145	106	106
6	VIVEK HYB-45 (C)	103	102	108	68	96	105	82	98	100	118	98	98
7	LMH 5119 (F)	109	105	112	67	84	114	95	101	91	150	103	103
	Mean	110.3	107.7	112.8	70.8	101.5	113.0	94.7	99.1	101.6	145.5	105.7	105.7
	CV (%)	7.4	3.5	5.0	13.1	7.7	6.8	14.5	4.4	17.7	12.5	10.3	10.3
	F (Prob)	0.0	0.0	0.2	0.1	0.0	0.3	0.1	0.6	0.8	0.1	0.0	0.0
	CD (5%)	14.4	6.7	10.1	16.5	14.0	13.7	24.4	7.8	31.9	32.3	5.5	5.5
	CD (1%)	20.2	9.3	14.1	23.1	19.6	19.2	34.1	11.0	44.7	45.3	7.3	7.3

Table No. : 7 (Conti...)

Final Plant stand (000/ha)

S. No.	Entry Name	NHZ											All India
		BAJU	BARA	DHAU	GOSS	IMPH	KANG	POOC	RAJO	SRIN	VPKA	NHZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3875	63	76	75	55	133	81	39	66	62	65	71	71
2	KMH17-89	61	77	78	57	120	81	35	63	62	63	70	70
3	BIO 605 (C)	62	86	77	58	127	81	41	65	61	64	72	72
4	DKC7074 (C)	67	87	79	64	130	81	29	60	61	66	72	72
5	PMH5 (C)	61	62	77	41	92	76	40	62	61	54	63	63
6	VIVEK HYB-45 (C)	68	86	77	54	124	77	27	67	61	64	70	70
7	LMH 5119 (F)	109	81	76	58	131	80	33	64	61	64	71	71
	Mean	63.8	79.3	76.8	55.3	122.4	79.6	34.9	63.7	61.4	62.9	70.0	70.0
	CV (%)	6.2	7.8	2.6	19.7	17.5	2.9	27.0	5.1	2.6	11.1	12.7	12.7
	F (Prob)	0.2	0.0	0.3	0.4	0.3	0.1	0.4	0.3	0.9	0.4	0.0	0.0
	CD (5%)	7.1	11.0	3.6	19.4	38.2	4.0	16.7	5.8	2.8	12.5	4.6	4.6
	CD (1%)	9.9	15.4	5.0	27.2	53.5	5.7	23.5	8.1	4.0	17.5	6.0	6.0

Moisture (%)

S. No.	Entry Name	NHZ											All India
		BAJU	BARA	DHAU	GOSS	IMPH	KANG	POOC	RAJO	SRIN	VPKA	NHZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3875	22.5	34.9	29.4	15.6	9.8	30.5	21.0	18.6	17.2	21.4	22.1	22.1
2	KMH17-89	22.3	33.2	26.8	17.9	9.1	28.7	20.5	18.8	18.2	18.7	21.4	21.4
3	BIO 605 (C)	21.6	33.8	32.6	17.6	13.2	30.8	20.5	19.0	17.4	21.6	22.8	22.8
4	DKC7074 (C)	23.8	33.6	30.9	17.5	9.4	29.7	19.5	21.2	16.9	21.4	22.4	22.4
5	PMH5 (C)	20.1	31.9	28.9	17.6	10.9	33.5	21.0	19.9	18.4	20.2	22.2	22.2
6	VIVEK HYB-45 (C)	22.6	33.8	28.6	17.3	9.6	30.3	22.0	17.7	18.8	22.2	22.3	22.3
7	LMH 5119 (F)	109.3	32.4	30.4	17.3	10.5	32.3	22.5	19.9	18.6	19.4	22.5	22.5
	Mean	22.1	33.4	29.7	17.3	10.4	30.8	21.0	19.3	17.9	20.7	22.2	22.2
	CV (%)	2.0	4.0	5.3	6.5	28.5	4.6	5.6	4.7	6.7	7.0	6.5	6.5
	F (Prob)	0.0	0.2	0.0	0.3	0.7	0.0	0.1	0.0	0.4	0.1	0.0	0.0
	CD (5%)	0.8	2.4	2.8	2.0	5.3	2.5	2.1	1.6	2.1	2.6	0.7	0.7
	CD (1%)	1.1	3.3	3.9	2.8	7.4	3.5	3.0	2.2	3.0	3.6	1.0	1.0

Table No. : 7 (Conti...)

Days to 75% Dry husk

S. No.	Entry Name	NHZ											All India
		BAJU	BARA	DHAU	GOSS	IMPH	KANG	POOC	RAJO	SRIN	VPKA	NHZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3875	95	94	88	93	87	87	107	96	129	101	98	98
2	KMH17-89	95	88	86	94	89	85	108	97	126	98	97	97
3	BIO 605 (C)	95	93	89	95	87	90	112	96	128	100	98	98
4	DKC7074 (C)	97	94	90	96	90	92	107	100	128	101	99	99
5	PMH5 (C)	95	85	86	94	86	88	110	99	126	99	97	97
6	VIVEK HYB-45 (C)	94	91	89	94	85	88	107	95	129	99	97	97
7	LMH 5119 (F)	109	90	87	95	88	86	105	100	128	96	97	97
	Mean	95.0	90.7	87.8	94.4	87.4	88.1	108.0	97.5	127.6	99.3	97.6	97.6
	CV (%)	0.7	1.3	1.8	0.8	1.3	1.8	2.6	4.5	3.1	2.1	2.3	2.3
	F (Prob)	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.7	1.0	0.1	0.0	0.0
	CD (5%)	1.2	2.0	2.8	1.4	2.1	2.8	5.0	7.9	7.1	3.8	1.2	1.2
	CD (1%)	1.7	2.9	3.9	1.9	2.9	3.9	7.0	11.0	10.0	5.3	1.5	1.5

Days to 50% Anthesis

S. No.	Entry Name	NHZ											All India
		BAJU	BARA	DHAU	GOSS	IMPH	KANG	POOC	RAJO	SRIN	VPKA	NHZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3875	57	52	54	47	53	49	51	59	76	55	55	55
2	KMH17-89	57	51	48	45	52	47	51	61	76	55	54	54
3	BIO 605 (C)	60	52	57	47	54	52	54	60	76	57	57	57
4	DKC7074 (C)	64	56	58	45	54	54	58	61	76	58	58	58
5	PMH5 (C)	58	51	49	42	53	50	58	63	75	57	56	56
6	VIVEK HYB-45 (C)	58	51	53	44	51	49	49	60	77	57	55	55
7	LMH 5119 (F)	109	48	51	43	52	48	50	59	74	55	53	53
	Mean	58.2	51.6	52.7	44.9	52.8	50.0	53.1	60.6	75.6	56.1	55.6	55.6
	CV (%)	1.7	0.9	3.9	6.1	2.3	2.3	7.9	3.9	3.4	3.9	4.0	4.0
	F (Prob)	0.0	0.0	0.0	0.3	0.1	0.0	0.1	0.5	0.9	0.6	0.0	0.0
	CD (5%)	1.7	0.8	3.7	4.9	2.2	2.1	7.4	4.2	4.5	3.9	1.1	1.1
	CD (1%)	2.4	1.2	5.1	6.8	3.1	2.9	10.4	5.8	6.3	5.4	1.5	1.5

Table No. : 7 (Conti...)

Days to 50% Silking

S. No.	Entry Name	NHZ											All India
		BAJU	BARA	DHAU	GOSS	IMPH	KANG	POOC	RAJO	SRIN	VPKA	NHZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3875	59	56	57	51	56	52	53	62	79	57	58	58
2	KMH17-89	59	54	51	50	56	50	54	64	79	56	57	57
3	BIO 605 (C)	62	56	59	51	57	55	57	63	78	58	60	60
4	DKC7074 (C)	66	58	60	49	57	58	61	62	79	59	61	61
5	PMH5 (C)	60	54	52	46	56	53	60	66	77	58	58	58
6	VIVEK HYB-45 (C)	60	54	56	48	55	53	52	63	80	58	58	58
7	LMH 5119 (F)	109	53	54	47	57	51	53	62	77	56	57	57
	Mean	60.5	55.1	55.8	49.0	56.3	53.2	55.7	63.0	78.4	57.4	58.4	58.4
	CV (%)	1.5	0.6	3.3	6.3	2.9	2.6	7.5	3.3	3.2	4.2	3.8	3.8
	F (Prob)	0.0	0.0	0.0	0.3	0.5	0.0	0.1	0.4	0.7	0.7	0.0	0.0
	CD (5%)	1.6	0.6	3.3	5.5	2.9	2.5	7.4	3.7	4.5	4.3	1.1	1.1
	CD (1%)	2.3	0.8	4.6	7.7	4.1	3.4	10.4	5.2	6.3	6.0	1.5	1.5

Plant height (cm)

S. No.	Entry Name	NHZ											All India
		BAJU	BARA	DHAU	GOSS	IMPH	KANG	POOC	RAJO	SRIN	VPKA	NHZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3875	197	187	219	194	228	221	223	197	221	262	215	215
2	KMH17-89	202	229	232	194	242	245	228	203	199	272	225	225
3	BIO 605 (C)	220	248	243	194	231	231	249	198	197	290	230	230
4	DKC7074 (C)	223	215	221	175	227	229	259	193	197	283	222	222
5	PMH5 (C)	217	231	228	187	221	220	221	194	202	280	220	220
6	VIVEK HYB-45 (C)	189	187	215	181	219	212	205	196	208	250	206	206
7	LMH 5119 (F)	109	211	225	171	179	229	227	195	193	265	210	210
	Mean	208.0	215.2	226.3	185.1	220.9	226.8	230.3	196.5	202.4	271.7	218.3	218.3
	CV (%)	3.6	3.1	4.9	6.1	13.4	7.0	6.9	1.5	13.3	5.7	7.5	7.5
	F (Prob)	0.0	0.0	0.1	0.1	0.3	0.3	0.0	0.0	0.9	0.1	0.0	0.0
	CD (5%)	13.2	12.0	19.7	19.9	52.6	28.3	28.3	5.4	48.0	27.6	8.3	8.3
	CD (1%)	18.5	16.8	27.6	27.9	73.7	39.7	39.6	7.5	67.3	38.8	11.0	11.0

Table No. : 7 (Conti...)

Initial Plant stand

S. No.	Entry Name	NHZ										All India
		BAJU	BARA	DHAU	GOSS	IMPH	KANG	RAJO	SRIN	VPKA	NHZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3875	46	64	75	41	60	80	66	78	58	63	63
2	KMH17-89	45	66	78	44	57	80	62	79	58	63	63
3	BIO 605 (C)	45	63	76	43	60	80	64	79	59	63	63
4	DKC7074 (C)	48	63	77	48	60	80	61	77	60	64	64
5	PMH5 (C)	44	58	75	32	44	76	62	78	48	57	57
6	VIVEK HYB-45 (C)	49	64	77	40	58	76	66	78	58	63	63
7	LMH 5119 (F)	109	63	75	44	60	80	65	79	58	64	64
	Mean	46.4	63.1	76.2	41.7	57.0	78.8	63.6	78.4	57.1	62.5	62.5
	CV (%)	5.1	7.1	2.9	17.6	17.9	1.1	5.4	2.2	11.2	8.4	8.4
	F (Prob)	0.1	0.5	0.4	0.3	0.5	0.0	0.4	0.7	0.4	0.0	0.0
	CD (5%)	4.2	8.0	3.9	13.1	18.2	1.5	6.1	3.1	11.4	2.8	2.8
	CD (1%)	5.9	11.2	5.5	18.3	25.5	2.1	8.5	4.3	16.0	3.7	3.7

Shelling (%)

S. No.	Entry Name	NHZ											All India
		BAJU	BARA	DHAU	GOSS	IMPH	KANG	POOC	RAJO	SRIN	VPKA	NHZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3875	82	77	81	71	79	79	82	82	79	81	79	79
2	KMH17-89	83	75	83	69	79	80	82	82	80	84	80	80
3	BIO 605 (C)	83	77	81	62	76	78	84	82	78	83	78	78
4	DKC7074 (C)	79	78	80	68	79	78	84	80	80	82	79	79
5	PMH5 (C)	85	74	82	67	83	78	81	81	80	85	80	80
6	VIVEK HYB-45 (C)	84	80	80	71	79	79	83	83	79	83	80	80
7	LMH 5119 (F)	109	79	81	72	84	78	82	80	81	83	80	80
	Mean	82.9	77.2	81.1	68.5	79.9	78.6	82.3	81.1	79.6	83.0	79.4	79.4
	CV (%)	0.0	4.6	0.9	6.2	3.2	0.6	1.3	1.4	2.4	1.0	2.7	2.7
	F (Prob)	0.0	0.5	0.0	0.2	0.0	0.0	0.0	0.1	0.7	0.0	0.0	0.0
	CD (5%)	0.0	6.3	1.3	7.6	4.6	0.8	1.9	2.1	3.4	1.5	1.1	1.1
	CD (1%)	0.0	8.8	1.8	10.6	6.4	1.1	2.7	2.9	4.7	2.1	1.4	1.4

Table No. : 8 Trial No. 590 (Medium maturity) AVT-I Yeild (Kg/ha)

S. No.	Entry Name	NHZ																		All India	
		BAJU		BARA		DHAU		GOSS		IMPH		KANG		POOC		RAJO		SRIN		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	DKC 8191	15891	1	7511	3	8870	2	5345	3	13267	3	9902	2	4571	7	8971	4	9667	3	9333	2	9333	2
2	DKC9190	14872	3	9521	1	8164	3	5869	1	16003	1	10128	1	6409	1	9072	3	8393	7	9826	1	9826	1
3	JKMH15303	12624	4	7220	5	6584	5	3057	6	8857	7	8149	6	4855	5	8951	5	8763	5	7673	6	7673	6
4	LMH1417	15493	2	6700	6	7079	4	3809	5	9921	5	8177	5	4746	6	8093	7	9966	1	8221	4	8221	4
5	BIO 9544 (C)	10623	6	8728	2	9401	1	5367	2	14652	2	8405	3	5708	2	8932	6	8595	6	8934	3	8934	3
6	CMH08-292 (C)	11398	5	7472	4	6280	6	4551	4	10247	4	8218	4	4970	3	9654	2	9900	2	8077	5	8077	5
7	DHM 121 (C)	9462	7	5328	7	6128	7	1772	7	8867	6	6363	7	4856	4	9660	1	9568	4	6889	7	6889	7
	Location Mean	12909	.	7497	.	7501	.	4253	.	11688	.	8477	.	5159	.	9048	.	9265	.	8422	.	8422	.
	CV (%)	4.5	.	11.9	.	12.0	.	25.5	.	29.3	.	11.2	.	15.5	.	21.4	.	6.7	.	17.9	.	17.9	.
	F (Prob)	0.0	.	0.0	.	0.0	.	0.0	.	0.1	.	0.0	.	0.1	.	1.0	.	0.0	.	0.0	.	0.0	.
	CD (5%)	1042.9	.	1591.1	.	1606.3	.	1931.4	.	6094.4	.	1689.6	.	1417.7	.	3439.7	.	1099.4	.	814.8	.	814.8	.
	CD (1%)	1462.1	.	2230.6	.	2251.9	.	2707.7	.	8543.9	.	2368.8	.	1987.6	.	4822.2	.	1541.3	.	1077.9	.	1077.9	.

Table No. 6 : (Contd.) Shelling %

S. No.	Entry Name	NHZ										All India
		BAJU	BARA	DHAU	GOSS	IMPH	KANG	POOC	RAJO	SRIN	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	DKC 8191	83	76	82	65	61	78	81	81	81	76	76
2	DKC9190	82	79	80	68	71	78	83	82	81	78	78
3	JKMH15303	84	80	81	70	79	79	82	81	80	79	79
4	LMH1417	85	81	81	71	70	80	84	81	82	79	79
5	BIO 9544 (C)	83	75	82	72	85	79	83	83	81	80	80
6	CMH08-292 (C)	86	79	81	73	66	78	84	81	81	79	79
7	DHM 121 (C)	81	73	79	64	62	78	82	84	82	76	76
	Mean	83.3	77.7	80.9	68.9	70.6	78.5	82.4	81.6	81.2	78.3	78.3
	CV (%)	0.0	5.3	2.7	6.4	15.8	0.9	1.7	1.5	1.5	5.6	5.6
	F (Prob)	0.0	0.2	0.6	0.2	0.2	0.0	0.2	0.1	0.6	0.0	0.0
	CD (5%)	0.0	7.3	3.9	7.8	19.8	1.2	2.5	2.1	2.2	2.3	2.3
	CD (1%)	0.0	10.2	5.4	11.0	27.8	1.7	3.5	3.0	3.0	3.1	3.1

Table No. : 8 (Conti...)

Gain in Yield (%) over BIO 9544 (C)

S. No.	Entry Name	NHZ																				All India	
		BAJU		BARA		DHAU		GOSS		IMPH		KANG		POOC		RAJO		SRIN		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	DKC 8191	49.59	1	-13.95	3	-5.64	2	-0.41	3	-9.45	3	17.82	2	-19.93	7	0.44	4	12.48	3	4.46	2	4.46	2
2	DKC9190	40	3	9.08	1	-13.15	3	9.36	1	9.22	1	20.51	1	12.28	1	1.57	3	-2.35	7	9.97	1	9.97	1
3	JKMH15303	18.84	4	-17.28	5	-29.96	5	-43.03	6	-39.6	7	-3.04	6	-14.94	5	0.21	5	1.95	5	-14.11	6	-14.11	6
4	LMH1417	45.85	2	-23.23	6	-24.69	4	-29.04	5	-32.3	5	-2.7	5	-16.86	6	-9.39	7	15.96	1	-7.99	4	-7.99	4
5	BIO 9544 (C)	0	6	0	2	0	1	0	2	0	2	0	3	0	2	0	6	0	6	0	3	0	3
6	CMH08-292 (C)	7.3	5	-14.39	4	-33.19	6	-15.2	4	-30.1	4	-2.21	4	-12.93	3	8.09	2	15.19	2	-9.6	5	-9.6	5
7	DHM 121 (C)	-10.93	7	-38.96	7	-34.82	7	-66.99	7	-39.5	6	-24.29	7	-14.92	4	8.15	1	11.32	4	-22.89	7	-22.89	7

Gain in Yield (%) over CMH08-292 (C)

S. No.	Entry Name	NHZ																				All India	
		BAJU		BARA		DHAU		GOSS		IMPH		KANG		POOC		RAJO		SRIN		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	DKC 8191	39.42	1	0.52	3	41.24	2	17.44	3	29.47	3	20.49	2	-8.04	7	-7.08	4	-2.35	3	15.55	2	15.55	2
2	DKC9190	30.48	3	27.42	1	30	3	28.97	1	56.16	1	23.24	1	28.95	1	-6.03	3	-15.23	7	21.65	1	21.65	1
3	JKMH15303	10.76	4	-3.37	5	4.84	5	-32.82	6	-13.6	7	-0.84	6	-2.31	5	-7.29	5	-11.49	5	-5	6	-5	6
4	LMH1417	35.93	2	-10.32	6	12.72	4	-16.31	5	-3.19	5	-0.5	5	-4.51	6	-16.17	7	0.67	1	1.78	4	1.78	4
5	BIO 9544 (C)	-6.8	6	16.82	2	49.68	1	17.93	2	42.98	2	2.26	3	14.85	2	-7.48	6	-13.19	6	10.62	3	10.62	3
6	CMH08-292 (C)	0	5	0	4	0	6	0	4	0	4	0	4	0	3	0	2	0	2	0	5	0	5
7	DHM 121 (C)	-16.99	7	-28.7	7	-2.43	7	-61.07	7	-13.5	6	-22.58	7	-2.29	4	0.06	1	-3.36	4	-14.7	7	-14.7	7

Gain in Yield (%) over DHM 121 (C)

S. No.	Entry Name	NHZ																				All India	
		BAJU		BARA		DHAU		GOSS		IMPH		KANG		POOC		RAJO		SRIN		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	DKC 8191	67.95	1	40.98	3	44.75	2	201.69	3	49.61	3	55.62	2	-5.88	7	-7.13	4	1.04	3	35.47	2	35.47	2
2	DKC9190	57.18	3	78.71	1	33.24	3	231.31	1	80.46	1	59.18	1	31.97	1	-6.09	3	-12.28	7	42.62	1	42.62	1
3	JKMH15303	33.42	4	35.53	5	7.45	5	72.57	6	-0.12	7	28.07	6	-0.02	5	-7.35	5	-8.42	5	11.38	6	11.38	6
4	LMH1417	63.75	2	25.77	6	15.53	4	114.98	5	11.88	5	28.52	5	-2.27	6	-16.22	7	4.16	1	19.33	4	19.33	4
5	BIO 9544 (C)	12.27	6	63.83	2	53.41	1	202.94	2	65.23	2	32.09	3	17.54	2	-7.54	6	-10.17	6	29.69	3	29.69	3
6	CMH08-292 (C)	20.47	5	40.25	4	2.49	6	156.89	4	15.56	4	29.16	4	2.35	3	-0.06	2	3.47	2	17.24	5	17.24	5
7	DHM 121 (C)	0	7	0	7	0	7	0	7	0	6	0	7	0	4	0	1	0	4	0	7	0	7

Table No. : 8 (Contd.)

Moisture %

S. No.	Entry Name	NHZ										All India
		BAJU	BARA	DHAU	GOSS	IMPH	KANG	POOC	RAJO	SRIN	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	DKC 8191	25.4	31.1	30.5	18.2	13.1	27.6	20.0	18.8	16.3	22.3	22.3
2	DKC9190	26.6	35.9	31.0	17.6	12.7	31.8	21.5	20.0	17.7	23.9	23.9
3	JKMH15303	24.4	35.6	31.6	17.4	14.9	33.3	21.5	19.5	18.3	24.1	24.1
4	LMH1417	22.9	33.3	29.8	18.2	12.9	30.0	20.5	19.8	18.3	22.8	22.8
5	BIO 9544 (C)	24.2	32.9	29.2	18.1	14.6	30.1	20.5	18.4	19.0	23.0	23.0
6	CMH08-292 (C)	24.2	33.4	30.4	17.9	15.1	28.9	22.0	19.3	17.7	23.2	23.2
7	DHM 121 (C)	25.2	35.1	30.4	18.0	14.6	31.7	19.5	19.6	17.0	23.5	23.5
	Mean	24.7	33.9	30.4	17.9	14.0	30.5	20.8	19.3	17.8	23.3	23.3
	CV (%)	1.2	4.9	10.5	2.1	14.6	3.7	5.7	3.7	12.1	6.8	6.8
	F (Prob)	0.0	0.0	1.0	0.1	0.6	0.0	0.2	0.2	0.8	0.0	0.0
	CD (5%)	0.5	3.0	5.7	0.7	3.6	2.0	2.1	1.3	3.8	0.9	0.9
	CD (1%)	0.7	4.2	8.0	0.9	5.1	2.8	2.9	1.8	5.3	1.1	1.1

Final plant stand (000/ha)

S. No.	Entry Name	NHZ										All India
		BAJU	BARA	DHAU	GOSS	IMPH	KANG	POOC	RAJO	SRIN	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	DKC 8191	67	94	81	58	115	80	39	61	62	73	73
2	DKC9190	48	90	77	48	112	78	44	60	61	69	69
3	JKMH15303	59	93	77	38	115	80	38	60	61	69	69
4	LMH1417	61	76	74	41	104	80	39	59	61	66	66
5	BIO 9544 (C)	61	96	77	50	107	78	39	59	62	70	70
6	CMH08-292 (C)	64	94	78	49	107	77	32	61	61	69	69
7	DHM 121 (C)	62	73	77	21	103	74	35	62	62	63	63
	Mean	60.3	88.0	77.4	43.5	108.8	78.1	37.9	60.5	61.4	68.4	68.4
	CV (%)	6.1	14.4	2.7	12.6	12.0	4.3	14.3	5.5	2.5	10.0	10.0
	F (Prob)	0.0	0.2	0.0	0.0	0.8	0.4	0.3	0.9	1.0	0.0	0.0
	CD (5%)	6.5	22.5	3.8	9.7	23.2	6.0	9.6	6.0	2.8	3.7	3.7
	CD (1%)	9.2	31.5	5.3	13.7	32.6	8.4	13.5	8.4	3.9	4.9	4.9

Table No. : 8 (Contd.)

Days to 50% Anthesis

S. No.	Entry Name	NHZ										All India
		BAJU	BARA	DHAU	GOSS	IMPH	KANG	POOC	RAJO	SRIN	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	DKC 8191	63	59	58	53	58	57	59	54	85	61	61
2	DKC9190	68	61	60	53	60	59	62	56	84	63	63
3	JKMH15303	65	62	60	51	61	57	61	57	82	62	62
4	LMH1417	62	58	57	50	57	55	59	58	86	60	60
5	BIO 9544 (C)	66	60	59	54	59	58	63	56	84	62	62
6	CMH08-292 (C)	62	56	58	52	57	56	60	56	85	60	60
7	DHM 121 (C)	65	61	60	54	59	58	62	58	85	62	62
	Mean	64.5	59.8	58.9	52.3	58.6	57.1	60.8	56.2	84.3	61.4	61.4
	CV (%)	1.3	1.3	1.2	3.5	1.9	1.5	3.3	3.5	3.3	2.6	2.6
	F (Prob)	0.0	0.0	0.0	0.1	0.0	0.0	0.4	0.3	0.7	0.0	0.0
	CD (5%)	1.5	1.4	1.2	3.2	2.0	1.6	3.6	3.5	5.0	0.9	0.9
	CD (1%)	2.1	2.0	1.7	4.5	2.8	2.2	5.1	4.9	7.0	1.1	1.1

Days to 50% Silking

S. No.	Entry Name	NHZ										All India
		BAJU	BARA	DHAU	GOSS	IMPH	KANG	POOC	RAJO	SRIN	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	DKC 8191	65	63	61	57	60	60	61	56	88	63	63
2	DKC9190	70	65	64	57	61	62	64	58	87	65	65
3	JKMH15303	67	66	63	54	63	61	63	55	85	64	64
4	LMH1417	65	60	60	54	60	58	62	60	89	63	63
5	BIO 9544 (C)	69	64	62	57	61	61	65	59	86	65	65
6	CMH08-292 (C)	64	59	60	55	59	59	62	58	89	63	63
7	DHM 121 (C)	68	66	63	58	61	62	64	60	88	65	65
	Mean	66.9	63.2	61.9	56.1	60.6	60.4	63.1	57.8	87.5	64.2	64.2
	CV (%)	1.1	1.5	1.0	2.6	1.9	1.9	2.8	4.4	3.3	2.6	2.6
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.6	0.0	0.0
	CD (5%)	1.3	1.7	1.1	2.6	2.0	2.1	3.1	4.5	5.1	0.9	0.9
	CD (1%)	1.9	2.4	1.5	3.6	2.9	2.9	4.4	6.3	7.1	1.2	1.2

Table No. : 8 (Contd.)

Days to 75% Dry husk

S. No.	Entry Name	NHZ										All India
		BAJU	BARA	DHAU	GOSS	IMPH	KANG	POOC	RAJO	SRIN	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	DKC 8191	100	106	100	98	95	95	116	95	134	104	104
2	DKC9190	107	105	104	98	96	97	117	93	134	106	106
3	JKMH15303	100	103	102	95	95	97	112	96	132	104	104
4	LMH1417	97	94	98	94	92	93	114	98	134	102	102
5	BIO 9544 (C)	107	100	101	97	94	96	116	100	132	105	105
6	CMH08-292 (C)	97	93	98	94	92	95	114	95	135	101	101
7	DHM 121 (C)	100	100	102	98	96	96	115	98	134	104	104
	Mean	101.0	100.3	100.6	96.3	94.4	95.6	114.8	96.6	133.7	103.7	103.7
	CV (%)	1.8	0.4	0.5	1.4	2.0	1.5	3.1	3.1	2.0	2.0	2.0
	F (Prob)	0.0	0.0	0.0	0.0	0.1	0.1	0.5	0.2	0.7	0.0	0.0
	CD (5%)	3.3	0.7	0.8	2.4	3.4	2.5	6.3	5.2	4.6	1.1	1.1
	CD (1%)	4.6	1.0	1.2	3.3	4.7	3.6	8.8	7.3	6.5	1.5	1.5

Plant Height (cm)

S. No.	Entry Name	NHZ										All India
		BAJU	BARA	DHAU	GOSS	IMPH	KANG	POOC	RAJO	SRIN	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	DKC 8191	244	215	246	207	269	251	255	200	194	231	231
2	DKC9190	312	256	278	246	322	285	290	199	213	267	267
3	JKMH15303	260	220	239	222	272	277	269	198	209	241	241
4	LMH1417	268	222	254	245	282	265	269	191	213	245	245
5	BIO 9544 (C)	240	232	239	195	266	254	268	199	208	233	233
6	CMH08-292 (C)	235	250	263	243	256	272	284	199	208	246	246
7	DHM 121 (C)	238	206	230	215	269	247	268	200	208	231	231
	Mean	256.8	228.8	249.8	224.8	276.7	264.5	271.8	198.0	207.6	242.1	242.1
	CV (%)	6.0	6.5	2.7	3.9	6.1	4.4	3.9	4.2	8.1	5.3	5.3
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.8	0.0	0.0
	CD (5%)	27.4	26.5	12.0	15.6	30.1	20.7	18.7	14.7	30.0	6.9	6.9
	CD (1%)	38.4	37.1	16.9	21.9	42.1	29.0	26.3	20.6	42.0	9.1	9.1

Table No. : 8 (Contd.)

Ear Height (cm)

S. No.	Entry Name	NHZ										All India
		BAJU	BARA	DHAU	GOSS	IMPH	KANG	POOC	RAJO	SRIN	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	DKC 8191	122	115	122	97	139	126	114	100	88	114	114
2	DKC9190	173	158	139	120	163	142	122	101	98	135	135
3	JKMH15303	123	117	119	78	132	139	120	99	91	113	113
4	LMH1417	148	113	126	105	144	135	118	99	114	122	122
5	BIO 9544 (C)	127	134	117	86	145	128	107	97	95	115	115
6	CMH08-292 (C)	137	153	131	111	137	137	125	104	102	126	126
7	DHM 121 (C)	112	105	115	85	121	125	108	99	92	107	107
	Mean	134.5	127.7	124.1	97.5	140.1	133.1	116.3	99.8	97.2	118.9	118.9
	CV (%)	11.3	5.9	2.9	6.0	8.2	4.4	9.2	5.2	15.6	8.3	8.3
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.5	0.0	0.0
	CD (5%)	27.0	13.5	6.4	10.3	20.4	10.3	18.9	9.3	27.1	5.3	5.3
	CD (1%)	37.9	18.9	8.9	14.5	28.6	14.5	26.6	13.0	37.9	7.0	7.0

Number of cobs

S. No.	Entry Name	NHZ										All India
		BAJU	BARA	DHAU	GOSS	IMPH	KANG	POOC	RAJO	SRIN	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	DKC 8191	58	64	77	41	47	77	35	63	74	60	60
2	DKC9190	57	64	74	32	39	74	39	64	71	57	57
3	JKMH15303	44	61	74	19	31	76	34	63	73	53	53
4	LMH1417	47	53	72	29	34	75	35	60	75	53	53
5	BIO 9544 (C)	44	68	73	35	42	74	35	62	72	56	56
6	CMH08-292 (C)	48	60	74	32	40	75	28	64	76	55	55
7	DHM 121 (C)	45	48	74	8	33	72	31	65	75	50	50
	Mean	49.1	59.6	73.9	28.1	38.2	74.8	34.0	63.2	73.7	54.9	54.9
	CV (%)	4.8	15.6	2.6	15.9	23.7	3.6	13.2	5.5	3.1	9.4	9.4
	F (Prob)	0.0	0.2	0.2	0.0	0.4	0.4	0.2	0.8	0.1	0.0	0.0
	CD (5%)	4.2	16.5	3.5	8.0	16.1	4.7	8.0	6.2	4.1	2.8	2.8
	CD (1%)	5.9	23.2	4.8	11.2	22.6	6.6	11.2	8.7	5.7	3.7	3.7

Table No. : 9 Trial No. 620 (Medim maturity) AVT-II

Yield (Kg/ha)

S. No.	Entry Name	NHZ														All India	
		BZJU		BARA		DHAU		IMPH		KANG		RAJO		NHZ			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	DKC8181 (IR8004)	13116	1	10034	2	7057	4	15274	2	7978	3	5569	7	9838	2	9838	2
2	IMHBG-17K-15	10185	8	8104	6	6198	6	10214	7	6833	7	6478	2	8002	7	8002	7
3	KMH-16-29	11931	2	5586	8	10130	1	9670	8	12004	1	5761	6	9180	4	9180	4
4	NMH-4053	11297	5	9013	5	6824	5	13301	4	6184	8	6719	1	8890	5	8890	5
5	PM17102M	11416	4	9274	4	7251	3	14086	3	8433	2	5974	3	9406	3	9406	3
6	Bio 9544 (C)	11679	3	9522	3	7858	2	16646	1	7633	4	5808	5	9858	1	9858	1
7	CMH 08-292 (C)	10632	6	10863	1	5548	7	11769	5	6932	6	5819	4	8594	6	8594	6
8	DHM 121 (C)	10489	7	8051	7	5524	8	10228	6	7061	5	5240	8	7765	8	7765	8
	Mean	11343.1	.	8805.9	.	7048.8	.	12648.3	.	7882.2	.	5921.0	.	8941.6	.	8941.6	.
	CV (%)	11.3	.	17.4	.	7.8	.	19.4	.	7.7	.	17.4	.	15.6	.	15.6	.
	F (Prob)	0.2	.	0.0	.	0.0	.	0.0	.	0.0	.	0.7	.	0.0	.	0.0	.
	CD (5%)	2234.2	.	2678.4	.	959.7	.	4300.9	.	1062.7	.	1800.1	.	926.6	.	926.6	.
	CD (1%)	3101.0	.	3717.4	.	1331.9	.	5969.4	.	1475.0	.	2498.4	.	1228.1	.	1228.1	.

Gain in Yield (%) over Bio 9544 (Check)

S. No.	Entry Name	NHZ														All India	
		BAJU		BARA		DHAU		IMPH		KANG		RAJO		NHZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	DKC8181 (IR8004)	12.31	1	5.37	2	-10.19	4	-8.24	2	4.52	3	-4.10	7	-0.20	2	-0.20	2
2	IMHBG-17K-15	-12.79	8	-14.89	6	-21.12	6	-38.64	7	-10.48	7	11.54	2	-18.82	7	-18.82	7
3	KMH-16-29	2.15	2	-41.34	8	28.92	1	-41.91	8	57.26	1	-0.81	6	-6.87	4	-6.87	4
4	NMH-4053	-3.27	5	-5.36	5	-13.16	5	-20.09	4	-18.99	8	15.69	1	-9.82	5	-9.82	5
5	PM17102M	-2.25	4	-2.61	4	-7.72	3	-15.38	3	10.48	2	2.87	3	-4.59	3	-4.59	3
6	Bio 9544 (C)	0.00	3	0.00	3	0.00	2	0.00	1	0.00	4	0.00	5	0.00	1	0.00	1
7	CMH 08-292 (C)	-8.97	6	14.08	1	-29.39	7	-29.30	5	-9.18	6	0.19	4	-12.82	6	-12.82	6
8	DHM 121 (C)	-10.19	7	-15.46	7	-29.69	8	-38.55	6	-7.50	5	-9.77	8	-21.22	8	-21.22	8

Table No. : 9 (Conti...)

Gain in Yield (%) over Bio 9544 (Check)

S. No.	Entry Name	NHZ														All India	
		BAJU		BARA		DHAU		IMPH		KANG		RAJO		NHZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	DKC8181 (IR8004)	23.37	1	-7.63	2	27.20	4	29.78	2	15.08	3	-4.28	7	14.48	2	14.48	2
2	IMHBG-17K-15	-4.20	8	-25.40	6	11.72	6	-13.21	7	-1.43	7	11.33	2	-6.88	7	-6.88	7
3	KMH-16-29	12.22	2	-48.58	8	82.59	1	-17.83	8	73.16	1	-1.00	6	6.82	4	6.82	4
4	NMH-4053	6.26	5	-17.04	5	23.00	5	13.02	4	-10.80	8	15.48	1	3.44	5	3.44	5
5	PM17102M	7.37	4	-14.63	4	30.70	3	19.69	3	21.64	2	2.68	3	9.45	3	9.45	3
6	Bio 9544 (C)	9.85	3	-12.34	3	41.63	2	41.44	1	10.11	4	-0.19	5	14.71	1	14.71	1
7	CMH 08-292 (C)	0.00	6	0.00	1	0.00	7	0.00	5	0.00	6	0.00	4	0.00	6	0.00	6
8	DHM 121 (C)	-1.35	7	-25.89	7	-0.43	8	-13.09	6	1.85	5	-9.94	8	-9.64	8	-9.64	8

Gain in Yield (%) over Bio 9544 (Check)

S. No.	Entry Name	NHZ														All India	
		BAJU		BARA		DHAU		IMPH		KANG		RAJO		NHZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	DKC8181 (IR8004)	25.05	1	24.64	2	27.74	4	49.33	2	12.99	3	6.28	7	26.69	2	26.69	2
2	IMHBG-17K-15	-2.89	8	0.67	6	12.20	6	-0.13	7	-3.22	7	23.62	2	3.05	7	3.05	7
3	KMH-16-29	13.75	2	-30.62	8	83.37	1	-5.45	8	70.01	1	9.93	6	18.22	4	18.22	4
4	NMH-4053	7.71	5	11.95	5	23.52	5	30.05	4	-12.42	8	28.23	1	14.48	5	14.48	5
5	PM17102M	8.84	4	15.19	4	31.25	3	37.72	3	19.43	2	14.01	3	21.12	3	21.12	3
6	Bio 9544 (C)	11.35	3	18.28	3	42.23	2	62.75	1	8.11	4	10.83	5	26.94	1	26.94	1
7	CMH 08-292 (C)	1.37	6	34.94	1	0.43	7	15.06	5	-1.82	6	11.04	4	10.67	6	10.67	6
8	DHM 121 (C)	0.00	7	0.00	7	0.00	8	0.00	6	0.00	5	0.00	8	0.00	8	0.00	8

Table No. : 9 (Conti...)

Number of cobs

S. No.	Entry Name	NHZ							All India	Final Plant stand (000/ha) NHZ							All India
		BAJU	BARA	DHAU	IMPH	KANG	RAJO	NHZ		BAJU	BARA	DHAU	IMPH	KANG	RAJO	NHZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	DKC8181 (IR8004)	82	65	107	75	77	101	85	85	71	92	75	89	80	62	78	78
2	IMHBG-17K-15	76	65	104	75	74	106	83	83	68	94	73	85	77	64	77	77
3	KMH-16-29	81	63	107	72	78	101	84	84	66	90	75	81	81	62	76	76
4	NMH-4053	78	69	111	73	75	106	86	86	72	101	78	90	79	64	81	81
5	PM17102M	81	64	107	82	76	104	86	86	68	96	75	88	80	63	78	78
6	Bio 9544 (C)	80	62	105	81	76	102	84	84	68	90	73	90	79	63	77	77
7	CMH 08-292 (C)	69	62	103	76	76	103	81	81	60	92	73	83	80	62	75	75
8	DHM 121 (C)	71	72	104	65	75	102	82	82	64	101	72	84	79	62	77	77
	Mean	77.4	65.2	106.2	75.2	75.8	103.3	83.8	83.8	67.1	94.5	74.5	86.1	79.3	62.7	77.4	77.4
	CV (%)	6.9	6.6	2.3	9.4	2.4	4.4	5.3	5.3	7.2	5.2	3.0	5.1	3.0	3.4	4.8	4.8
	F (Prob)	0.1	0.2	0.0	0.2	0.3	0.7	0.0	0.0	0.2	0.1	0.1	0.2	0.7	0.7	0.0	0.0
	CD (5%)	9.3	7.5	4.2	12.3	3.1	8.0	2.9	2.9	8.5	8.6	3.9	7.7	4.1	3.7	2.5	2.5
	CD (1%)	12.9	10.4	5.8	17.1	4.3	11.1	3.9	3.9	11.7	11.9	5.4	10.7	5.7	5.1	3.2	3.2

Ear height (cm)

Moisture (%)

S. No.	Entry Name	NHZ							All India	NHZ							All India
		BAJU	BARA	DHAU	IMPH	KANG	RAJO	NHZ		BAJU	BARA	DHAU	IMPH	KANG	RAJO	NHZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	DKC8181 (IR8004)	132	113	128	137	117	98	121	121	22.9	31.5	28.2	12.3	37.1	20.3	25.4	25.4
2	IMHBG-17K-15	122	137	120	158	119	101	126	126	22.9	29.6	27.9	11.6	35.9	20.7	24.8	24.8
3	KMH-16-29	113	125	106	129	106	99	113	113	22.0	30.6	24.6	11.7	31.2	22.2	23.7	23.7
4	NMH-4053	93	114	125	130	119	94	112	112	22.6	36.2	28.0	10.8	38.1	19.4	25.8	25.8
5	PM17102M	108	117	122	132	118	98	116	116	23.0	32.1	27.0	8.0	34.4	20.3	24.1	24.1
6	Bio 9544 (C)	127	133	120	151	117	100	125	125	22.9	34.4	27.1	13.3	38.7	20.2	26.1	26.1
7	CMH 08-292 (C)	138	149	120	155	118	96	129	129	23.0	30.5	27.8	11.4	32.3	20.7	24.3	24.3
8	DHM 121 (C)	123	122	119	134	111	94	117	117	22.6	33.8	29.7	10.4	37.6	20.2	25.7	25.7
	Mean	119.6	126.3	120.0	140.8	115.5	97.4	119.9	119.9	22.7	32.3	27.5	11.2	35.6	20.5	25.0	25.0
	CV (%)	12.8	3.9	4.4	10.1	3.6	4.8	7.8	7.8	1.0	4.6	9.4	24.6	3.4	3.5	7.0	7.0
	F (Prob)	0.1	0.0	0.0	0.1	0.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0
	CD (5%)	26.7	8.5	9.2	24.9	7.3	8.1	6.2	6.2	0.4	2.6	4.5	4.8	2.1	1.3	1.2	1.2
	CD (1%)	37.1	11.8	12.8	34.5	10.1	11.3	8.2	8.2	0.6	3.6	6.3	6.7	2.9	1.8	1.5	1.5

Table No. : 9 (Conti...)

Days to 75% Dry husk

S. No.	Entry Name	NHZ							All India
		BAJU	BARA	DHAU	IMPH	KANG	RAJO	NHZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	DKC8181 (IR8004)	99	103	97	99	92	97	98	98
2	IMHBG-17K-15	98	93	100	88	94	102	96	96
3	KMH-16-29	97	86	88	85	86	97	90	90
4	NMH-4053	99	103	97	100	92	99	99	99
5	PM17102M	97	99	97	88	90	99	95	95
6	Bio 9544 (C)	98	103	101	92	95	100	98	98
7	CMH 08-292 (C)	98	95	99	86	91	99	95	95
8	DHM 121 (C)	98	95	101	100	94	101	98	98
	Mean	98.0	97.1	97.4	92.4	91.8	99.4	96.0	96.0
	CV (%)	0.7	0.2	1.3	7.7	0.6	3.0	3.2	3.2
	F (Prob)	0.0	0.0	0.0	0.1	0.0	0.6	0.0	0.0
	CD (5%)	1.3	0.4	2.2	12.5	1.0	5.3	2.1	2.1
	CD (1%)	1.8	0.5	3.1	17.3	1.4	7.3	2.7	2.7

Days to 50% Silking

S. No.	Entry Name	NHZ							All India
		BAJU	BARA	DHAU	IMPH	KANG	RAJO	NHZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	DKC8181 (IR8004)	66	60	60	58	57	60	60	60
2	IMHBG-17K-15	69	62	61	57	58	60	61	61
3	KMH-16-29	60	56	53	52	50	61	55	55
4	NMH-4053	68	62	61	59	57	61	61	61
5	PM17102M	62	57	58	55	54	61	58	58
6	Bio 9544 (C)	70	63	61	58	59	60	62	62
7	CMH 08-292 (C)	66	59	60	55	56	62	59	59
8	DHM 121 (C)	69	62	61	59	59	62	62	62
	Mean	66.2	60.1	59.4	56.6	56.4	61.0	60.0	60.0
	CV (%)	1.3	1.5	1.4	2.8	1.0	3.8	2.2	2.2
	F (Prob)	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
	CD (5%)	1.5	1.6	1.4	2.8	1.0	4.1	0.9	0.9
	CD (1%)	2.0	2.2	2.0	3.9	1.4	5.7	1.2	1.2

Days to 50% Anthesis

S. No.	Entry Name	NHZ							All India
		BAJU	BARA	DHAU	IMPH	KANG	RAJO	NHZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	DKC8181 (IR8004)	64	56	58	54	54	57	57	57
2	IMHBG-17K-15	66	59	58	54	54	56	58	58
3	KMH-16-29	57	53	50	51	47	58	53	53
4	NMH-4053	66	59	59	57	54	58	59	59
5	PM17102M	60	55	55	53	51	59	56	56
6	Bio 9544 (C)	67	60	59	57	56	57	59	59
7	CMH 08-292 (C)	64	56	57	54	53	59	57	57
8	DHM 121 (C)	66	59	58	56	55	59	59	59
	Mean	63.9	57.1	56.6	54.3	52.9	57.9	57.1	57.1
	CV (%)	1.5	1.2	1.5	2.2	1.3	4.2	2.3	2.3
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
	CD (5%)	1.6	1.2	1.5	2.1	1.2	4.3	0.9	0.9
	CD (1%)	2.3	1.6	2.0	2.9	1.7	6.0	1.1	1.1

Plant height (cm)

S. No.	Entry Name	NHZ							All India
		BAJU	BARA	DHAU	IMPH	KANG	RAJO	NHZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	DKC8181 (IR8004)	233	216	256	283	234	192	236	236
2	IMHBG-17K-15	242	239	241	301	238	199	243	243
3	KMH-16-29	239	232	212	279	215	198	229	229
4	NMH-4053	227	243	252	295	237	192	241	241
5	PM17102M	232	237	246	288	236	195	239	239
6	Bio 9544 (C)	219	233	240	269	233	182	229	229
7	CMH 08-292 (C)	270	254	239	270	235	198	244	244
8	DHM 121 (C)	231	230	239	272	223	199	232	232
	Mean	236.5	235.6	240.7	282.0	231.4	194.3	236.7	236.7
	CV (%)	6.9	1.9	4.3	8.0	3.5	4.4	5.6	5.6
	F (Prob)	0.1	0.0	0.0	0.6	0.0	0.3	0.0	0.0
	CD (5%)	28.7	7.6	18.1	39.5	14.1	15.0	8.7	8.7
	CD (1%)	39.8	10.6	25.2	54.9	19.5	20.8	11.6	11.6

Table No. : 9 (Conti...)		Initial Plant stand								Shelling (%)							
S. No.	Entry Name	NHZ							All India	NHZ							All India
		BAJU	BARA	DHAU	IMPH	KANG	RAJO	NHZ		BAJU	BARA	DHAU	IMPH	KANG	RAJO	NHZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	DKC8181 (IR8004)	77	68	111	90	80	92	86	86	86	76	79	83	79	78	80	80
2	IMHBG-17K-15	76	69	106	89	76	95	85	85	84	72	81	76	77	81	79	79
3	KMH-16-29	72	70	111	88	79	92	85	85	83	68	83	80	80	78	79	79
4	NMH-4053	77	75	116	90	78	94	88	88	84	70	79	80	76	82	79	79
5	PM17102M	75	69	111	90	79	93	86	86	83	73	80	77	76	77	78	78
6	Bio 9544 (C)	74	65	108	90	79	92	85	85	82	79	81	84	76	80	80	80
7	CMH 08-292 (C)	68	69	107	86	80	93	84	84	84	77	82	76	77	79	79	79
8	DHM 121 (C)	71	76	106	90	77	91	85	85	78	69	78	75	76	78	76	76
	Mean	73.7	70.2	109.5	89.1	78.5	92.8	85.7	85.7	83.1	73.1	80.5	79.1	77.1	79.1	78.7	78.7
	CV (%)	6.5	5.1	2.7	2.7	2.2	2.9	3.7	3.7	0.0	7.0	1.7	5.0	0.5	1.3	3.5	3.5
	F (Prob)	0.3	0.0	0.0	0.4	0.2	0.7	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0
	CD (5%)	8.4	6.3	5.1	4.1	3.0	4.7	2.1	2.1	0.0	9.0	2.4	6.9	0.6	1.8	1.8	1.8
	CD (1%)	11.6	8.7	7.1	5.8	4.1	6.6	2.8	2.8	0.0	12.5	3.3	9.6	0.9	2.4	2.4	2.4

Table No. : 10 **Trial No.: 625 (Early Maturity) AVT-I**

Yield (Kg/ha)

S. No.	Entry Name	NWPZ														All India	
		ALIG		GURD		IARI		KARN		LUDH		PANT		NWPZ			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	AH8181	12547	1	4196	5	11249	5	7135	3	9402	2	8499	4	8661	2	8661	2
2	JH32094	10100	4	4030	6	13372	4	7220	2	8867	4	10875	1	8468	4	8468	4
3	Bio 605 (C)	10265	3	3693	7	16861	1	8275	1	9174	3	7960	7	7773	5	7773	5
4	DKC 7074 (C)	10047	6	4974	2	14423	2	5719	4	10192	1	10865	2	9019	1	9019	1
5	Vivek Hybrid 51 (C)	8862	7	4441	4	9162	7	3690	7	7568	6	9818	3	7672	6	7672	6
6	Vivek Hybrid 45 (C)	10077	5	4609	3	10247	6	4853	6	7387	7	8269	6	7585	7	7585	7
7	DHM 121 (F)	12231	2	5112	1	13582	3	5558	5	8854	5	8389	5	8647	3	8647	3
	Mean	10589.7	.	4436.5	.	12699.2	.	6064.2	.	8777.7	.	9239.1	.	8260.7	.	8260.7	.
	CV (%)	16.9	.	17.2	.	21.0	.	23.7	.	11.6	.	8.5	.	13.7	.	13.7	.
	F (Prob)	0.2	.	0.3	.	0.1	.	0.0	.	0.1	.	0.0	.	0.0	.	0.0	.
	CD (5%)	3187.9	.	1358.0	.	4740.4	.	2557.7	.	1807.2	.	1390.8	.	929.6	.	929.6	.
	CD (1%)	4469.2	.	1903.8	.	6645.7	.	3585.8	.	2533.6	.	1949.8	.	1240.1	.	1240.1	.

Gain in Yield (%) over Bio 605 (Check)

S. No.	Entry Name	NWPZ														All India	
		ALIG		GURD		IARI		KARN		LUDH		PANT		NWPZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH8181	22.23	1	13.63	5	-33.28	5	-13.77	3	2.48	2	6.77	4	11.42	2	11.42	2
2	JH32094	-1.61	4	9.12	6	-20.69	4	-12.75	2	-3.35	4	36.62	1	8.94	4	8.94	4
3	Bio 605 (C)	0.00	3	0.00	7	0.00	1	0.00	1	0.00	3	0.00	7	0.00	5	0.00	5
4	DKC 7074 (C)	-2.12	6	34.69	2	-14.46	2	-30.89	4	11.09	1	36.49	2	16.03	1	16.03	1
5	Vivek Hybrid 51 (C)	-13.67	7	20.25	4	-45.66	7	-55.41	7	-17.51	6	23.34	3	-1.30	6	-1.30	6
6	Vivek Hybrid 45 (C)	-1.83	5	24.81	3	-39.23	6	-41.35	6	-19.49	7	3.88	6	-2.42	7	-2.42	7
7	DHM 121 (F)	19.16	2	38.43	1	-19.45	3	-32.82	5	-3.49	5	5.39	5	11.24	3	11.24	3

Table No. : 10 (Conti...)

Gain in Yield (%) over DKC 7074 (Check)

S. No.	Entry Name	NWPZ														All India	
		ALIG		GURD		IARI		KARN		LUDH		PANT		NWPZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH8181	24.88	1	-15.63	5	-22.00	5	24.77	3	-7.75	2	-21.78	4	-3.97	2	-3.97	2
2	JH32094	0.52	4	-18.98	6	-7.28	4	26.25	2	-13.00	4	0.09	1	-6.11	4	-6.11	4
3	Bio 605 (C)	2.17	3	-25.76	7	16.91	1	44.70	1	-9.98	3	-26.73	7	-13.82	5	-13.82	5
4	DKC 7074 (C)	0.00	6	0.00	2	0.00	2	0.00	4	0.00	1	0.00	2	0.00	1	0.00	1
5	Vivek Hybrid 51 (C)	-11.79	7	-10.72	4	-36.48	7	-35.48	7	-25.74	6	-9.64	3	-14.94	6	-14.94	6
6	Vivek Hybrid 45 (C)	0.30	5	-7.34	3	-28.95	6	-15.14	6	-27.52	7	-23.89	6	-15.90	7	-15.90	7
7	DHM 121 (F)	21.74	2	2.78	1	-5.83	3	-2.80	5	-13.12	5	-22.79	5	-4.13	3	-4.13	3

Gain in Yield (%) over Vivek Hybrid 51 (Check)

S. No.	Entry Name	NWPZ														All India	
		ALIG		GURD		IARI		KARN		LUDH		PANT		NWPZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH8181	41.58	1	-5.50	5	22.78	5	93.37	3	24.23	2	-13.44	4	12.89	2	12.89	2
2	JH32094	13.97	4	-9.26	6	45.95	4	95.67	2	17.16	4	10.77	1	10.37	4	10.37	4
3	Bio 605 (C)	15.83	3	-16.84	7	84.03	1	124.26	1	21.22	3	-18.92	7	1.31	5	1.31	5
4	DKC 7074 (C)	13.37	6	12.01	2	57.42	2	54.98	4	34.66	1	10.67	2	17.56	1	17.56	1
5	Vivek Hybrid 51 (C)	0.00	7	0.00	4	0.00	7	0.00	7	0.00	6	0.00	3	0.00	6	0.00	6
6	Vivek Hybrid 45 (C)	13.71	5	3.79	3	11.84	6	31.53	6	-2.40	7	-15.78	6	-1.13	7	-1.13	7
7	DHM 121 (F)	38.02	2	15.12	1	48.24	3	50.65	5	16.99	5	-14.55	5	12.70	3	12.70	3

Gain in Yield (%) over VIVEK Hybrid 45 (Check)

S. No.	Entry Name	NWPZ														All India	
		ALIG		GURD		IARI		KARN		LUDH		PANT		NWPZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH8181	24.51	1	-8.95	5	9.78	5	47.02	3	27.28	2	2.78	4	14.18	2	14.18	2
2	JH32094	0.23	4	-12.57	6	30.50	4	48.77	2	20.04	4	31.51	1	11.63	4	11.63	4
3	Bio 605 (C)	1.87	3	-19.88	7	64.55	1	70.50	1	24.20	3	-3.73	7	2.47	5	2.47	5
4	DKC 7074 (C)	-0.29	6	7.92	2	40.75	2	17.83	4	37.98	1	31.39	2	18.91	1	18.91	1
5	Vivek Hybrid 51 (C)	-12.05	7	-3.65	4	-10.59	7	-23.97	7	2.46	6	18.73	3	1.14	6	1.14	6
6	Vivek Hybrid 45 (C)	0.00	5	0.00	3	0.00	6	0.00	6	0.00	7	0.00	6	0.00	7	0.00	7
7	DHM 121 (F)	21.38	2	10.92	1	32.54	3	14.54	5	19.87	5	1.45	5	13.99	3	13.99	3

Table No. : 10 (Conti...)

Number of cobs

S. No.	Entry Name	NWPZ							All India
		ALIG	GURD	IARI	KARN	LUDH	PANT	NWPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH8181	76	56	44	87	81	69	69	69
2	JH32094	79	59	55	81	81	81	73	73
3	Bio 605 (C)	71	55	52	78	80	67	67	67
4	DKC 7074 (C)	81	62	56	81	82	86	75	75
5	Vivek Hybrid 51 (C)	79	60	44	56	81	84	67	67
6	Vivek Hybrid 45 (C)	80	58	45	76	81	74	69	69
7	DHM 121 (F)	79	54	44	81	80	70	68	68
	Mean	77.8	57.7	48.5	77.2	81.0	76.0	69.7	69.7
	CV (%)	4.7	9.9	12.9	17.2	1.2	5.5	9.2	9.2
	F (Prob)	0.1	0.6	0.1	0.2	0.2	0.0	0.0	0.0
	CD (5%)	6.4	10.1	11.2	23.6	1.7	7.5	4.3	4.3
	CD (1%)	9.0	14.2	15.7	33.1	2.4	10.5	5.7	5.7

Ear height (cm)

S. No.	Entry Name	NWPZ								All India
		ALIG	GURD	IARI	KAPU	KARN	LUDH	PANT	NWPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH8181	117	80	133	110	100	118	112	110	110
2	JH32094	134	87	141	118	114	131	127	122	122
3	Bio 605 (C)	118	88	137	107	114	123	111	114	114
4	DKC 7074 (C)	107	97	127	114	99	125	114	112	112
5	Vivek Hybrid 51 (C)	110	77	124	111	82	119	111	105	105
6	Vivek Hybrid 45 (C)	93	78	112	98	79	93	89	92	92
7	DHM 121 (F)	106	87	122	108	110	123	108	109	109
	Mean	112.2	84.8	128.1	109.5	99.9	118.6	110.3	109.0	109.0
	CV (%)	5.4	12.7	3.6	6.1	9.7	6.9	4.1	6.9	6.9
	F (Prob)	0.0	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0
	CD (5%)	10.8	19.1	8.1	12.0	17.3	14.5	8.0	4.6	4.6
	CD (1%)	15.2	26.8	11.3	16.8	24.3	20.4	11.3	6.2	6.2

Trial No.

Final Plant stand (000/ha)

S. No.	Entry Name	NWPZ							All India
		ALIG	IARI	KAPU	KARN	LUDH	PANT	NWPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH8181	81	69	72	65	79	58	71	71
2	JH32094	82	87	72	65	78	66	75	75
3	Bio 605 (C)	81	81	66	65	78	56	71	71
4	DKC 7074 (C)	84	88	71	67	80	68	76	76
5	Vivek Hybrid 51 (C)	82	70	70	43	78	68	68	68
6	Vivek Hybrid 45 (C)	81	73	68	55	79	62	70	70
7	DHM 121 (F)	82	70	66	67	78	58	70	70
	Mean	82.0	76.8	69.4	61.0	78.7	62.3	71.7	71.7
	CV (%)	2.1	11.5	3.3	17.0	1.7	3.5	7.9	7.9
	F (Prob)	0.4	0.1	0.0	0.1	0.3	0.0	0.0	0.0
	CD (5%)	3.1	15.7	4.1	18.4	2.3	3.9	3.7	3.7
	CD (1%)	4.3	22.0	5.8	25.8	3.2	5.4	5.0	5.0

Moisture (%)

S. No.	Entry Name	NWPZ							All India
		ALIG	GURD	IARI	KARN	LUDH	PANT	NWPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH8181	18	22	27	24	18	31	23	23
2	JH32094	18	22	24	21	18	30	22	22
3	Bio 605 (C)	18	24	24	24	19	30	23	23
4	DKC 7074 (C)	17	22	23	22	19	30	22	22
5	Vivek Hybrid 51 (C)	17	21	21	22	18	26	21	21
6	Vivek Hybrid 45 (C)	17	21	20	23	18	25	21	21
7	DHM 121 (F)	18	22	25	23	19	32	23	23
	Mean	17.5	22.0	23.2	22.7	18.3	29.1	22.1	22.1
	CV (%)	3.4	4.2	15.6	1.9	4.7	6.5	8.0	8.0
	F (Prob)	0.1	0.1	0.3	0.0	0.5	0.0	0.0	0.0
	CD (5%)	1.1	1.6	6.5	0.8	1.5	3.4	1.2	1.2
	CD (1%)	1.5	2.3	9.0	1.1	2.2	4.7	1.6	1.6

Table No. : 10 (Conti...)

Days to 75% Dry husk

S. No.	Entry Name	NWPZ								All India
		ALIG	GURD	IARI	KAPU	KARN	LUDH	PANT	NWPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH8181	88	88	86	72	83	89	100	87	87
2	JH32094	87	87	84	70	80	88	96	85	85
3	Bio 605 (C)	88	87	86	70	82	87	100	86	86
4	DKC 7074 (C)	85	87	88	71	80	87	98	85	85
5	Vivek Hybrid 51 (C)	85	88	87	69	83	86	95	85	85
6	Vivek Hybrid 45 (C)	84	86	84	69	81	86	97	84	84
7	DHM 121 (F)	89	87	87	70	83	88	101	87	87
	Mean	86.4	87.2	86.2	70.2	81.7	87.2	98.1	85.3	85.3
	CV (%)	1.1	1.0	4.5	2.3	1.9	1.1	1.2	2.2	2.2
	F (Prob)	0.0	0.1	0.9	0.2	0.1	0.0	0.0	0.0	0.0
	CD (5%)	1.7	1.5	6.8	2.9	2.8	1.6	2.1	1.1	1.1
	CD (1%)	2.3	2.1	9.6	4.1	3.9	2.3	2.9	1.5	1.5

Days to 50% Anthesis

S. No.	Entry Name	NWPZ								All India
		ALIG	GURD	IARI	KAPU	KARN	LUDH	PANT	NWPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH8181	53	57	42	65	49	53	59	54	54
2	JH32094	51	55	42	66	47	51	54	52	52
3	Bio 605 (C)	51	56	45	64	48	52	58	53	53
4	DKC 7074 (C)	51	56	48	64	48	52	57	54	54
5	Vivek Hybrid 51 (C)	44	52	43	65	49	50	53	51	51
6	Vivek Hybrid 45 (C)	43	53	43	65	49	49	54	51	51
7	DHM 121 (F)	52	55	45	66	49	52	59	54	54
	Mean	49.4	54.7	44.1	65.1	48.5	51.1	56.2	52.7	52.7
	CV (%)	2.3	3.6	9.8	2.7	1.7	1.8	2.2	3.9	3.9
	F (Prob)	0.0	0.2	0.7	0.5	0.1	0.0	0.0	0.0	0.0
	CD (5%)	2.0	3.5	7.7	3.1	1.5	1.6	2.2	1.3	1.3
	CD (1%)	2.8	4.9	10.8	4.3	2.1	2.2	3.0	1.7	1.7

Days to 50% Silking

S. No.	Entry Name	NWPZ								All India
		ALIG	GURD	IARI	KAPU	KARN	LUDH	PANT	NWPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH8181	56	58	45	65	50	54	61	56	56
2	JH32094	54	56	45	63	48	53	56	54	54
3	Bio 605 (C)	55	57	47	63	50	53	61	55	55
4	DKC 7074 (C)	55	57	50	63	49	53	59	55	55
5	Vivek Hybrid 51 (C)	48	53	46	63	51	52	56	53	53
6	Vivek Hybrid 45 (C)	48	54	46	63	51	51	57	53	53
7	DHM 121 (F)	57	56	48	64	50	54	62	56	56
	Mean	53.3	55.8	46.7	63.4	49.8	52.9	58.9	54.4	54.4
	CV (%)	2.1	3.3	8.7	3.9	1.8	1.8	2.1	3.8	3.8
	F (Prob)	0.0	0.1	0.7	0.9	0.0	0.0	0.0	0.0	0.0
	CD (5%)	2.0	3.2	7.2	4.4	1.6	1.7	2.1	1.3	1.3
	CD (1%)	2.8	4.5	10.1	6.1	2.2	2.4	3.0	1.7	1.7

Plant height (cm)

S. No.	Entry Name	NWPZ								All India
		ALIG	GURD	IARI	KAPU	KARN	LUDH	PANT	NWPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH8181	273	172	247	220	212	235	282	234	234
2	JH32094	270	180	251	230	221	239	297	241	241
3	Bio 605 (C)	263	167	237	220	216	227	276	229	229
4	DKC 7074 (C)	229	173	223	218	198	225	255	217	217
5	Vivek Hybrid 51 (C)	230	148	216	217	167	218	249	207	207
6	Vivek Hybrid 45 (C)	185	142	181	212	174	175	220	184	184
7	DHM 121 (F)	246	173	214	222	201	215	262	219	219
	Mean	242.3	165.0	224.1	219.8	198.2	219.1	263.1	218.8	218.8
	CV (%)	10.1	9.3	3.2	3.5	6.5	7.4	3.7	6.6	6.6
	F (Prob)	0.0	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0
	CD (5%)	43.5	27.2	12.9	13.7	23.0	28.7	17.1	8.8	8.8
	CD (1%)	61.0	38.2	18.1	19.2	32.2	40.2	24.0	11.7	11.7

Table No. : 10 (Conti...) Initial Plant stand										Shelling (%)									
S. No.	Entry Name	NWPZ							All India	NWPZ									All India
		ALIG	GURD	IARI	KARN	LUDH	PANT	NWPZ		ALIG	GURD	IARI	KAPU	KARN	LUDH	PANT	NWPZ		
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean		Mean
1	AH8181	81	55	45	78	82	75	69	69	79	78	87	75	80	82	82	81		81
2	JH32094	84	59	54	78	82	88	74	74	79	81	82	77	81	83	85	81		81
3	Bio 605 (C)	82	54	56	77	82	76	71	71	82	79	85	77	81	85	85	82		82
4	DKC 7074 (C)	84	62	56	78	83	88	75	75	84	80	82	74	77	85	86	81		81
5	Vivek Hybrid 51 (C)	83	59	50	50	82	89	69	69	80	83	81	75	80	85	83	81		81
6	Vivek Hybrid 45 (C)	82	58	49	66	83	83	70	70	84	80	81	72	80	83	81	80		80
7	DHM 121 (F)	82	54	47	78	82	77	70	70	80	79	83	77	77	82	83	80		80
	Mean	82.4	57.4	51.2	72.1	82.4	82.1	71.3	71.3	81.1	80.1	83.1	75.2	79.6	83.3	83.6	80.8		80.8
	CV (%)	1.8	10.5	7.5	16.1	0.9	4.4	7.6	7.6	5.6	2.4	4.2	4.2	0.9	1.2	1.9	3.3		3.3
	F (Prob)	0.2	0.6	0.0	0.1	0.1	0.0	0.0	0.0	0.6	0.2	0.3	0.3	0.0	0.0	0.0	0.2		0.2
	CD (5%)	2.7	10.7	6.9	20.7	1.3	6.4	3.6	3.6	8.1	3.3	6.2	5.6	1.2	1.8	2.8	1.6		1.6
	CD (1%)	3.8	15.0	9.6	29.0	1.9	9.0	4.8	4.8	11.3	4.7	8.8	7.9	1.7	2.5	3.9	2.2		2.2

Table No. : 11 Trial No: 634 (Medium Maturity) AVT-I-II

Yield (Kg/ha)

S. No.	Entry Name	NWPZ																All India	
		ALIG		GURD		IARI		KAPU		KARN		LUDH		PANT		NWPZ			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	AH 7067R	6489	18	4154	18	11323	14	2703	17	5030	18	5524	18	7411	18	6689	18	6689	18
2	AH4271	10734	10	5240	16	9811	17	4406	5	9066	9	8863	8	9897	15	8576	15	8576	15
3	BH416215	7918	17	7017	4	11699	11	3255	11	9649	3	8221	14	12469	4	9811	6	9811	6
4	DKC 9190	12830	1	6333	9	14696	1	4905	1	8315	16	12112	1	14364	1	11164	1	11164	1
5	DKC 9194	11501	6	6796	6	13448	5	3411	10	9769	2	11027	2	12513	3	10710	2	10710	2
6	IMHBG-17 K-17	9360	15	6139	10	12266	9	3171	13	9343	6	7634	15	10262	13	9129	12	9129	12
7	INDAM 1118	10705	11	5793	13	13619	3	4149	6	9561	4	9451	5	10617	10	9808	7	9808	7
8	JH 16045	11707	4	7269	2	11936	10	4504	4	9302	7	9035	7	11603	6	9829	5	9829	5
9	KMH 004	11452	7	5874	12	13846	2	4008	7	8861	12	10749	3	12621	2	10390	3	10390	3
10	KNMH 4181	10163	13	5009	17	11009	15	2972	15	8675	14	5849	17	8547	17	7818	17	7818	17
11	OMH 17-47	11402	8	7586	1	12809	8	3949	9	8680	13	8552	10	10263	12	9578	9	9578	9
12	PM 18107 M	12463	2	6364	8	13184	6	4547	2	9139	8	8422	12	11206	7	9663	8	9663	8
13	RCRMH 7	11025	9	7137	3	10905	16	2972	16	9018	11	9043	6	10643	9	9349	11	9349	11
14	SYN816604	12201	3	6119	11	9085	18	3180	12	9032	10	10617	4	10702	8	9111	13	9111	13
15	TUFAN	11620	5	5739	14	12954	7	3023	14	8283	17	8366	13	9959	14	9060	14	9060	14
16	BIO 9544 (C)	10562	12	6906	5	13614	4	4508	3	8465	15	8550	11	12087	5	9924	4	9924	4
17	CMH 08-292 (C)	9333	16	6788	7	11454	13	4008	8	9770	1	8828	9	10518	11	9472	10	9472	10
18	DHM 121 (C)	9674	14	5513	15	11620	12	2547	18	9414	5	7330	16	8706	16	8516	16	8516	16
	Mean	10618.7	.	6209.7	.	12182.3	.	3678.8	.	8854.0	.	8787.4	.	10799.5	.	9366.6	.	9366.6	.
	CV (%)	20.0	.	17.6	.	18.2	.	25.8	.	8.4	.	7.8	.	8.2	.	13.4	.	13.4	.
	F (Prob)	0.1	.	0.1	.	0.2	.	0.1	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.
	CD (5%)	3524.8	.	1814.5	.	3670.0	.	1577.0	.	1232.7	.	1130.5	.	1460.1	.	904.8	.	904.8	.
	CD (1%)	4732.2	.	2436.1	.	4927.2	.	2117.2	.	1654.9	.	1517.7	.	1960.2	.	1194.0	.	1194.0	.

Table No. : 11 (Conti...)

Gain in Yield (%) over BIO 9544 (Check)

S. No.	Entry Name	NWPZ																All India	
		ALIG		GURD		IARI		KAPU		KARN		LUDH		PANT		NWPZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH 7067R	-38.56	18	-39.85	18	-16.82	14	-40.04	17	-40.57	18	-35.39	18	-38.68	18	-32.60	18	-32.60	18
2	AH4271	1.63	10	-24.12	16	-27.93	17	-2.27	5	7.10	9	3.67	8	-18.12	15	-13.59	15	-13.59	15
3	BH416215	-25.04	17	1.62	4	-14.06	11	-27.79	11	13.99	3	-3.84	14	3.16	4	-1.14	6	-1.14	6
4	DKC 9190	21.47	1	-8.29	9	7.95	1	8.80	1	-1.77	16	41.66	1	18.83	1	12.49	1	12.49	1
5	DKC 9194	8.88	6	-1.59	6	-1.21	5	-24.32	10	15.40	2	28.97	2	3.52	3	7.92	2	7.92	2
6	IMHBG-17 K-17	-11.39	15	-11.10	10	-9.90	9	-29.66	13	10.37	6	-10.71	15	-15.10	13	-8.01	12	-8.01	12
7	INDAM 1118	1.35	11	-16.11	13	0.04	3	-7.96	6	12.95	4	10.55	5	-12.16	10	-1.17	7	-1.17	7
8	JH 16045	10.83	4	5.26	2	-12.32	10	-0.09	4	9.89	7	5.68	7	-4.00	6	-0.96	5	-0.96	5
9	KMH 004	8.42	7	-14.94	12	1.71	2	-11.08	7	4.68	12	25.72	3	4.41	2	4.69	3	4.69	3
10	KNMH 4181	-3.78	13	-27.47	17	-19.13	15	-34.06	15	2.48	14	-31.58	17	-29.29	17	-21.22	17	-21.22	17
11	OMH 17-47	7.95	8	9.85	1	-5.91	8	-12.39	9	2.55	13	0.03	10	-15.09	12	-3.49	9	-3.49	9
12	PM 18107 M	17.99	2	-7.84	8	-3.15	6	0.87	2	7.96	8	-1.49	12	-7.29	7	-2.63	8	-2.63	8
13	RCRMH 7	4.38	9	3.35	3	-19.89	16	-34.07	16	6.53	11	5.78	6	-11.95	9	-5.79	11	-5.79	11
14	SYN816604	15.51	3	-11.39	11	-33.27	18	-29.45	12	6.70	10	24.18	4	-11.47	8	-8.20	13	-8.20	13
15	TUFAN	10.01	5	-16.89	14	-4.84	7	-32.93	14	-2.15	17	-2.15	13	-17.61	14	-8.71	14	-8.71	14
16	BIO 9544 (C)	0.00	12	0.00	5	0.00	4	0.00	3	0.00	15	0.00	11	0.00	5	0.00	4	0.00	4
17	CMH 08-292 (C)	-11.64	16	-1.70	7	-15.86	13	-11.09	8	15.42	1	3.25	9	-12.98	11	-4.56	10	-4.56	10
18	DHM 121 (C)	-8.41	14	-20.17	15	-14.65	12	-43.51	18	11.21	5	-14.27	16	-27.98	16	-14.19	16	-14.19	16

Table No. : 11 (Conti...)

Gain in Yield (%) over CMH 08-292 (Check)

S. No.	Entry Name	NWPZ																All India	
		ALIG		GURD		IARI		KAPU		KARN		LUDH		PANT		NWPZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH 7067R	-30.47	18	-38.80	18	-1.14	14	-32.57	17	-48.51	18	-37.43	18	-29.54	18	-29.38	18	-29.38	18
2	AH4271	15.02	10	-22.81	16	-14.34	17	9.92	5	-7.21	9	0.40	8	-5.90	15	-9.46	15	-9.46	15
3	BH416215	-15.16	17	3.38	4	2.14	11	-18.79	11	-1.24	3	-6.87	14	18.54	4	3.58	6	3.58	6
4	DKC 9190	37.48	1	-6.70	9	28.30	1	22.37	1	-14.89	16	37.20	1	36.56	1	17.87	1	17.87	1
5	DKC 9194	23.23	6	0.11	6	17.41	5	-14.88	10	-0.01	2	24.91	2	18.96	3	13.08	2	13.08	2
6	IMHBG-17 K-17	0.29	15	-9.56	10	7.09	9	-20.89	13	-4.37	6	-13.52	15	-2.43	13	-3.62	12	-3.62	12
7	INDAM 1118	14.70	11	-14.65	13	18.89	3	3.51	6	-2.14	4	7.06	5	0.94	10	3.55	7	3.55	7
8	JH 16045	25.44	4	7.09	2	4.21	10	12.37	4	-4.79	7	2.35	7	10.32	6	3.78	5	3.78	5
9	KMH 004	22.70	7	-13.46	12	20.88	2	0.01	7	-9.31	12	21.76	3	19.99	2	9.70	3	9.70	3
10	KNMH 4181	8.89	13	-26.21	17	-3.89	15	-25.84	15	-11.21	14	-33.74	17	-18.74	17	-17.46	17	-17.46	17
11	OMH 17-47	22.18	8	11.75	1	11.83	8	-1.47	9	-11.15	13	-3.12	10	-2.43	12	1.12	9	1.12	9
12	PM 18107 M	33.54	2	-6.25	8	15.10	6	13.45	2	-6.46	8	-4.59	12	6.54	7	2.02	8	2.02	8
13	RCRMH 7	18.13	9	5.14	3	-4.79	16	-25.85	16	-7.70	11	2.44	6	1.19	9	-1.29	11	-1.29	11
14	SYN816604	30.73	3	-9.86	11	-20.69	18	-20.65	12	-7.56	10	20.27	4	1.74	8	-3.81	13	-3.81	13
15	TUFAN	24.51	5	-15.45	14	13.09	7	-24.57	14	-15.22	17	-5.23	13	-5.31	14	-4.34	14	-4.34	14
16	BIO 9544 (C)	13.18	12	1.73	5	18.85	4	12.47	3	-13.36	15	-3.15	11	14.92	5	4.78	4	4.78	4
17	CMH 08-292 (C)	0.00	16	0.00	7	0.00	13	0.00	8	0.00	1	0.00	9	0.00	11	0.00	10	0.00	10
18	DHM 121 (C)	3.65	14	-18.78	15	1.44	12	-36.47	18	-3.65	5	-16.97	16	-17.23	16	-10.09	16	-10.09	16

Table No. : 11 (Conti...)

Gain in Yield (%) over DHM 121 (Check)

S. No.	Entry Name	NWPZ																All India	
		ALIG		GURD		IARI		KAPU		KARN		LUDH		PANT		NWPZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH 7067R	-32.92	18	-24.65	18	-2.55	14	6.14	17	-46.56	18	-24.64	18	-14.87	18	-21.46	18	-21.46	18
2	AH4271	10.97	10	-4.95	16	-15.56	17	73.01	5	-3.69	9	20.92	8	13.69	15	0.69	15	0.69	15
3	BH416215	-18.15	17	27.29	4	0.69	11	27.83	11	2.50	3	12.16	14	43.23	4	15.20	6	15.20	6
4	DKC 9190	32.63	1	14.87	9	26.47	1	92.60	1	-11.67	16	65.24	1	65.00	1	31.09	1	31.09	1
5	DKC 9194	18.89	6	23.27	6	15.74	5	33.97	10	3.77	2	50.43	2	43.73	3	25.76	2	25.76	2
6	IMHBG-17 K-17	-3.25	15	11.36	10	5.56	9	24.51	13	-0.75	6	4.15	15	17.88	13	7.19	12	7.19	12
7	INDAM 1118	10.66	11	5.08	13	17.20	3	62.92	6	1.56	4	28.94	5	21.96	10	15.17	7	15.17	7
8	JH 16045	21.02	4	31.86	2	2.72	10	76.87	4	-1.18	7	23.26	7	33.29	6	15.42	5	15.42	5
9	KMH 004	18.38	7	6.55	12	19.16	2	57.41	7	-5.87	12	46.64	3	44.97	2	22.00	3	22.00	3
10	KNMH 4181	5.06	13	-9.15	17	-5.25	15	16.73	15	-7.85	14	-20.20	17	-1.82	17	-8.20	17	-8.20	17
11	OMH 17-47	17.87	8	37.60	1	10.23	8	55.08	9	-7.79	13	16.68	10	17.89	12	12.47	9	12.47	9
12	PM 18107 M	28.83	2	15.44	8	13.46	6	78.56	2	-2.92	8	14.91	12	28.72	7	13.46	8	13.46	8
13	RCRMH 7	13.97	9	29.46	3	-6.15	16	16.71	16	-4.21	11	23.38	6	22.26	9	9.78	11	9.78	11
14	SYN816604	26.12	3	10.99	11	-21.82	18	24.89	12	-4.06	10	44.84	4	22.93	8	6.98	13	6.98	13
15	TUFAN	20.12	5	4.10	14	11.48	7	18.72	14	-12.01	17	14.13	13	14.40	14	6.38	14	6.38	14
16	BIO 9544 (C)	9.19	12	25.26	5	17.16	4	77.02	3	-10.08	15	16.64	11	38.85	5	16.53	4	16.53	4
17	CMH 08-292 (C)	-3.53	16	23.13	7	-1.42	13	57.39	8	3.79	1	20.43	9	20.82	11	11.22	10	11.22	10
18	DHM 121 (C)	0.00	14	0.00	15	0.00	12	0.00	18	0.00	5	0.00	16	0.00	16	0.00	16	0.00	16

Table No. : 11 (Conti...)																			
		Number of cobs								Ear height (cm)									
S. No.	Entry Name	NWPZ							All India	NWPZ								All India
		ALIG	GURD	IARI	KARN	LUDH	PANT	NWPZ		ALIG	GURD	IARI	KAPU	KARN	LUDH	PANT	NWPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 7067R	93	72	65	136	113	115	99	99	97	93	112	113	80	95	100	99	99
2	AH4271	105	72	63	136	117	100	99	99	103	107	130	110	112	127	113	114	114
3	BH416215	81	90	76	140	118	126	105	105	113	112	150	114	132	127	139	127	127
4	DKC 9190	147	100	82	139	129	140	123	123	155	137	171	129	128	155	155	147	147
5	DKC 9194	114	91	83	139	127	121	113	113	132	110	144	116	115	122	116	122	122
6	IMHBG-17 K-17	110	71	77	139	121	117	106	106	130	123	141	117	104	138	128	126	126
7	INDAM 1118	112	90	79	140	122	130	112	112	134	102	149	123	119	132	129	127	127
8	JH 16045	114	84	74	145	120	120	110	110	135	128	166	111	134	137	147	137	137
9	KMH 004	118	99	81	137	126	136	116	116	117	120	141	115	110	140	114	122	122
10	KNMH 4181	108	64	74	146	116	113	103	103	109	92	122	115	119	113	99	110	110
11	OMH 17-47	106	77	73	135	114	115	103	103	122	113	155	128	110	137	122	127	127
12	PM 18107 M	124	82	78	141	121	126	112	112	112	102	142	114	122	120	110	118	118
13	RCRMH 7	113	94	67	141	119	127	110	110	117	117	145	124	134	122	119	125	125
14	SYN816604	116	91	62	140	123	126	110	110	97	92	137	105	110	108	116	109	109
15	TUFAN	111	78	84	136	121	131	110	110	105	102	131	110	101	110	107	109	109
16	BIO 9544 (C)	109	80	90	138	117	131	111	111	116	105	135	127	103	122	116	118	118
17	CMH 08-292 (C)	107	83	66	140	124	115	106	106	140	122	166	133	139	147	144	142	142
18	DHM 121 (C)	106	73	69	144	113	112	103	103	106	93	120	112	96	115	107	107	107
	Mean	110.8	82.9	74.7	139.4	120.1	122.2	108.3	108.3	118.9	109.4	142.1	117.5	114.9	125.8	121.2	121.4	121.4
	CV (%)	14.3	12.7	13.1	4.2	3.7	5.2	8.9	8.9	9.2	10.3	5.2	9.1	10.7	6.6	5.4	8.1	8.1
	F (Prob)	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
	CD (5%)	26.4	17.5	16.2	9.6	7.3	10.5	6.3	6.3	18.1	18.7	12.2	17.7	20.4	13.7	10.8	6.0	6.0
	CD (1%)	35.4	23.5	21.8	12.9	9.8	14.0	8.3	8.3	24.3	25.2	16.4	23.7	27.4	18.4	14.4	7.9	7.9

Table No. : 11 (Conti...) Final Plant Stand (000/ha)										Moisture (%)							
S. No.	Entry Name	NWPZ							All India	NWPZ							All India
		ALIG	IARI	KAPU	KARN	LUDH	PANT	NWPZ		ALIG	GURD	IARI	KARN	LUDH	PANT	NWPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 7067R	80	57	64	69	75	64	68	68	16.1	22.7	25.9	22.2	19.5	25.7	22.0	22.0
2	AH4271	75	55	68	68	75	56	66	66	17.9	22.8	25.9	22.6	20.1	28.5	23.0	23.0
3	BH416215	79	67	68	68	76	67	71	71	16.7	21.7	26.3	23.1	20.0	27.5	22.6	22.6
4	DKC 9190	82	73	73	68	77	69	74	74	18.1	23.3	19.5	23.2	20.7	30.4	22.5	22.5
5	DKC 9194	79	68	65	67	79	64	70	70	17.2	23.2	26.5	22.7	19.9	30.7	23.3	23.3
6	IMHBG-17 K-17	79	66	71	69	79	64	72	72	14.5	21.7	25.8	22.8	19.6	22.8	21.2	21.2
7	INDAM 1118	78	70	69	68	81	67	72	72	16.2	23.7	26.1	23.4	20.7	32.7	23.8	23.8
8	JH 16045	79	65	69	68	78	66	71	71	16.9	22.8	25.5	22.9	19.8	26.3	22.3	22.3
9	KMH 004	79	72	69	69	78	68	73	73	16.9	23.7	26.2	22.8	21.7	28.7	23.3	23.3
10	KNMH 4181	80	65	68	68	78	63	70	70	16.7	21.9	27.8	24.3	19.6	22.1	22.1	22.1
11	OMH 17-47	75	65	64	68	76	64	69	69	16.4	23.2	21.9	23.6	20.0	26.0	21.8	21.8
12	PM 18107 M	85	67	68	68	78	67	72	72	17.2	21.2	22.6	23.0	20.1	27.1	21.9	21.9
13	RCRMH 7	80	59	64	68	79	67	70	70	18.1	21.3	23.7	23.4	20.9	28.3	22.6	22.6
14	SYN816604	80	55	64	68	78	66	68	68	16.5	22.8	24.4	23.3	20.2	30.7	23.0	23.0
15	TUFAN	84	74	64	68	78	67	73	73	17.4	22.8	24.8	23.5	18.7	29.2	22.7	22.7
16	BIO 9544 (C)	81	76	72	68	77	69	74	74	18.0	21.8	24.4	23.5	22.0	32.1	23.6	23.6
17	CMH 08-292 (C)	76	58	67	69	78	64	69	69	15.6	22.2	23.2	23.2	21.0	25.3	21.8	21.8
18	DHM 121 (C)	79	60	63	69	74	62	68	68	15.8	23.1	25.4	23.7	19.7	28.5	22.7	22.7
	Mean	79.5	65.2	67.2	68.3	77.5	65.1	70.4	70.4	16.8	22.5	24.8	23.2	20.2	27.9	22.6	22.6
	CV (%)	5.2	11.0	7.2	1.2	2.9	3.3	5.9	5.9	7.6	3.9	9.1	3.6	3.0	5.5	6.0	6.0
	F (Prob)	0.4	0.0	0.3	0.6	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0
	CD (5%)	6.9	11.9	8.0	1.4	3.8	3.6	2.7	2.7	2.1	1.5	3.7	1.4	1.0	2.5	0.9	0.9
	CD (1%)	9.3	16.0	10.8	1.9	5.1	4.8	3.6	3.6	2.8	2.0	5.0	1.8	1.3	3.4	1.2	1.2

Table No. : 11 (Conti...)

S. No.	Entry Name	Days to 75% Dry husk									Days to 50% Anthesis								
		NWPZ								All India	NWPZ								All India
		ALIG	GURD	IARI	KAPU	KARN	LUDH	PANT	NWPZ		ALIG	GURD	IARI	KAPU	KARN	LUDH	PANT	NWPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 7067R	88	95	95	80	88	91	104	92	92	50	57	52	59	51	55	58	55	55
2	AH4271	89	95	95	79	87	94	105	92	92	52	60	51	59	50	56	61	55	55
3	BH416215	88	95	96	83	87	92	103	92	92	50	57	51	54	50	55	58	54	54
4	DKC 9190	94	95	95	82	88	97	106	94	94	55	63	51	55	52	58	61	56	56
5	DKC 9194	90	94	94	81	90	97	107	93	93	52	58	51	56	54	57	61	56	56
6	IMHBG-17 K-17	88	94	95	81	90	91	103	92	92	51	60	52	55	54	56	61	56	56
7	INDAM 1118	91	94	93	81	88	97	107	93	93	51	60	52	58	52	56	61	56	56
8	JH 16045	92	96	96	82	88	92	104	93	93	53	59	53	57	51	56	59	55	55
9	KMH 004	89	94	94	80	89	96	105	92	92	52	57	52	57	54	56	60	55	55
10	KNMH 4181	91	93	94	80	87	90	102	91	91	51	58	50	57	52	55	59	55	55
11	OMH 17-47	92	93	94	78	89	92	103	92	92	53	61	51	56	53	56	62	56	56
12	PM 18107 M	91	96	91	80	88	95	105	92	92	52	58	53	54	51	56	59	55	55
13	RCRMH 7	94	94	92	82	89	95	103	93	93	52	60	50	57	52	57	59	55	55
14	SYN816604	90	95	92	81	88	96	105	93	93	52	60	50	55	54	57	59	55	55
15	TUFAN	91	95	96	81	87	91	105	92	92	51	58	50	57	50	55	61	55	55
16	BIO 9544 (C)	94	95	94	82	88	97	107	94	94	53	59	51	58	52	57	60	56	56
17	CMH 08-292 (C)	90	94	95	79	89	91	103	92	92	51	58	52	57	52	55	59	55	55
18	DHM 121 (C)	92	95	96	82	87	94	105	93	93	52	60	53	54	52	56	62	56	56
	Mean	90.9	94.5	94.3	80.9	88.2	93.7	104.6	92.4	92.4	51.8	59.1	51.2	56.4	52.0	55.9	60.1	55.2	55.2
	CV (%)	2.3	1.4	3.7	2.1	1.5	1.2	1.3	2.1	2.1	2.0	2.1	3.9	3.8	3.7	1.5	1.9	2.8	2.8
	F (Prob)	0.0	0.5	0.9	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.1	0.2	0.0	0.0	0.0	0.0
	CD (5%)	3.5	2.3	5.8	2.9	2.3	1.9	2.3	1.2	1.2	1.7	2.1	3.4	3.5	3.2	1.4	1.9	1.0	1.0
	CD (1%)	4.7	3.0	7.8	3.9	3.0	2.5	3.0	1.6	1.6	2.3	2.8	4.5	4.7	4.3	1.9	2.5	1.3	1.3

Table No. : 11 (Conti...)																				
		Days to 50% Silking									Plant height (cm)									
S. No.	Entry Name	NWPZ								All India	NWPZ								All India
		ALIG	GURD	IARI	KAPU	KARN	LUDH	PANT	NWPZ		ALIG	GURD	IARI	KAPU	KARN	LUDH	PANT	NWPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 7067R	54	58	54	60	52	57	61	57	57	226	208	213	232	176	207	268	219	219
2	AH4271	55	61	53	60	52	58	64	57	57	242	197	225	227	203	222	270	226	226
3	BH416215	53	58	53	58	50	57	61	56	56	234	210	256	220	239	242	308	244	244
4	DKC 9190	59	64	52	58	53	60	64	59	59	286	215	278	242	223	260	332	262	262
5	DKC 9194	56	59	53	59	56	59	64	58	58	260	217	248	236	205	238	287	242	242
6	IMHBG-17 K-17	56	61	55	60	55	58	64	58	58	253	213	251	241	215	243	291	244	244
7	INDAM 1118	55	61	53	61	53	57	64	58	58	261	207	257	235	212	243	303	245	245
8	JH 16045	56	60	55	62	52	57	61	58	58	270	230	277	228	234	257	315	259	259
9	KMH 004	55	58	54	60	56	58	63	58	58	241	218	247	237	213	243	276	240	240
10	KNMH 4181	54	59	53	61	54	56	62	57	57	247	215	237	223	228	237	277	238	238
11	OMH 17-47	56	62	52	59	54	58	63	58	58	252	218	265	244	208	250	303	249	249
12	PM 18107 M	55	59	55	56	53	58	62	57	57	242	202	259	235	227	235	276	239	239
13	RCRMH 7	56	61	52	60	54	58	62	58	58	264	217	256	250	237	235	287	249	249
14	SYN816604	55	61	52	59	54	58	62	57	57	224	202	247	225	214	223	274	230	230
15	TUFAN	55	59	51	61	52	57	64	57	57	225	190	229	220	192	212	270	220	220
16	BIO 9544 (C)	57	60	53	59	53	59	63	58	58	229	185	225	233	195	220	265	222	222
17	CMH 08-292 (C)	55	59	53	59	53	57	61	57	57	272	213	276	251	236	252	316	259	259
18	DHM 121 (C)	56	62	56	59	54	57	63	58	58	235	197	222	232	200	222	264	224	224
	Mean	55.5	60.1	53.3	59.5	53.5	57.7	62.6	57.4	57.4	247.9	208.5	248.2	234.0	214.2	235.6	288.0	239.5	239.5
	CV (%)	1.7	2.1	5.0	3.2	3.8	1.2	2.2	2.9	2.9	5.3	5.9	4.6	4.4	6.6	3.8	3.5	4.8	4.8
	F (Prob)	0.0	0.0	0.7	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	1.6	2.1	4.4	3.2	3.4	1.1	2.3	1.0	1.0	22.0	20.2	18.9	17.2	23.3	14.6	16.8	7.0	7.0
	CD (1%)	2.1	2.9	5.9	4.3	4.5	1.5	3.1	1.3	1.3	29.5	27.2	25.4	23.1	31.3	19.7	22.5	9.3	9.3

Table No. : 11 (Conti...)

S. No.	Entry Name	Plant stand								Shelling (%)								
		NWPZ							All India	NWPZ								All India
		ALIG	GURD	IARI	KARN	LUDH	PANT	NWPZ		ALIG	GURD	IARI	KAPU	KARN	LUDH	PANT	NWPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH 7067R	122	72	84	120	119	125	107	107	83	79	83	72	80	84	84	81	81
2	AH4271	120	71	78	119	118	105	102	102	85	79	79	75	79	86	85	81	81
3	BH416215	118	90	86	120	118	131	111	111	86	81	84	73	81	85	88	83	83
4	DKC 9190	121	100	87	120	122	133	114	114	86	79	82	73	81	86	86	82	82
5	DKC 9194	122	91	89	119	124	123	111	111	89	79	84	73	81	85	88	83	83
6	IMHBG-17 K-17	119	70	85	120	125	127	108	108	84	80	83	67	84	85	85	81	81
7	INDAM 1118	120	90	88	120	126	130	112	112	87	78	83	75	82	85	85	82	82
8	JH 16045	119	84	83	120	123	127	109	109	86	80	84	77	81	85	87	83	83
9	KMH 004	118	99	87	120	123	132	113	113	87	78	85	78	83	84	86	83	83
10	KNMH 4181	121	64	89	120	125	123	107	107	84	83	83	71	79	84	83	81	81
11	OMH 17-47	119	76	83	120	120	127	107	107	84	81	83	74	83	86	85	82	82
12	PM 18107 M	125	82	84	119	123	132	111	111	86	81	83	76	80	86	86	83	83
13	RCRMH 7	120	94	88	120	124	128	112	112	85	79	84	67	82	85	85	81	81
14	SYN816604	118	91	87	120	123	128	111	111	85	79	80	69	80	85	85	81	81
15	TUFAN	123	78	87	119	123	130	110	110	86	80	81	74	79	86	86	82	82
16	BIO 9544 (C)	119	80	89	119	122	132	110	110	82	79	84	74	81	84	85	81	81
17	CMH 08-292 (C)	121	83	87	120	123	125	110	110	84	79	85	75	83	85	85	82	82
18	DHM 121 (C)	120	73	81	120	118	118	105	105	83	79	84	66	82	84	83	80	80
	Mean	120.3	82.7	85.7	119.7	122.2	126.4	109.5	109.5	85.1	79.7	83.1	72.7	81.2	85.1	85.4	81.7	81.7
	CV (%)	2.9	13.0	4.1	0.6	2.7	4.6	5.1	5.1	2.2	3.0	4.1	7.2	1.9	0.5	0.8	3.3	3.3
	F (Prob)	0.7	0.0	0.0	1.0	0.1	0.0	0.0	0.0	0.1	0.6	0.9	0.2	0.0	0.0	0.0	0.0	0.0
	CD (5%)	5.8	17.9	5.9	1.2	5.5	9.6	3.7	3.7	3.2	4.0	5.6	8.7	2.5	0.7	1.2	1.6	1.6
	CD (1%)	7.8	24.0	7.9	1.6	7.4	12.9	4.8	4.8	4.2	5.3	7.5	11.7	3.4	1.0	1.6	2.2	2.2

Table No. : 12 Trial No.: 629 (Late Maturity) AVT-I-II

Yield (Kg/ha)

S. No.	Entry Name	NWPZ																All India	
		ALIG		GURD		IARI		KAPU		KARN		LUDH		PANT		NWPZ			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	ADV 1390164	13487	4	8239	13	15961	3	6009	3	8086	15	11071	3	11615	14	11410	3	11410	3
2	ADV 7132	14432	2	7785	19	15399	4	6261	1	8430	10	11078	2	13521	2	11774	1	11774	1
3	B57	12065	11	8212	14	10962	21	3755	21	8346	12	9262	14	11414	16	10043	18	10043	18
4	BLH 137	10149	24	7656	20	13047	12	4091	17	7765	18	8410	22	10383	23	9568	23	9568	23
5	Bio 218	13375	5	8609	7	10959	22	4641	9	10032	1	10045	7	11678	13	10783	8	10783	8
6	Bio 534	10723	23	8753	5	12090	18	4224	15	9309	3	9992	8	11162	19	10338	13	10338	13
7	CP 858	12028	12	8501	9	16233	1	5106	7	10028	2	9960	9	12358	7	11518	2	11518	2
8	HT 17169	11514	17	9688	1	13223	10	3836	20	8931	5	9218	16	12379	6	10826	7	10826	7
9	JH 16041	10773	22	7273	22	12548	15	3958	19	8123	14	9283	13	10818	21	9803	22	9803	22
10	JH 16081	11421	18	9325	2	10784	23	4481	11	8819	6	9577	12	11359	17	10214	14	10214	14
11	JH 16224	9321	25	7835	18	13270	9	6108	2	8328	13	9955	10	12465	5	10196	15	10196	15
12	JH 17026	12197	8	8156	16	13096	11	3261	24	8761	7	10226	5	11487	15	10654	11	10654	11
13	JKMH 150375	12832	6	8407	11	12695	14	2439	25	8692	8	9073	17	12899	4	10766	9	10766	9
14	KMH 005	14799	1	8206	15	14387	6	3697	23	8676	9	8594	20	11323	18	10998	5	10998	5
15	KMH 463	13563	3	6120	25	13858	7	5352	5	7804	16	10122	6	11698	12	10528	12	10528	12
16	PM 18101 L	11679	14	8983	3	13718	8	3704	22	6902	23	7900	25	10784	22	9994	20	9994	20
17	PM 18104 L	12022	13	6136	24	14677	5	4047	18	7647	21	9046	18	9975	24	9917	21	9917	21
18	PM 18105 L	11174	21	8831	4	16135	2	4369	13	9020	4	9241	15	12213	8	11102	4	11102	4
19	PM 18106 L	12131	9	8529	8	11140	20	4332	14	7516	22	11654	1	13304	3	10712	10	10712	10
20	SUPER 1818	11540	15	7647	21	12842	13	5310	6	7673	20	8685	19	12024	9	10069	17	10069	17
21	SYN816514	12119	10	8406	12	12452	16	4420	12	7797	17	10461	4	14089	1	10887	6	10887	6
22	TS 2505	11176	20	7911	17	10414	24	4676	8	6555	25	8511	21	9269	25	8973	25	8973	25
23	Bio 9682 (C)	11524	16	8427	10	12027	19	5383	4	7724	19	8367	23	11936	10	10001	19	10001	19
24	CMH 08-287 (C)	12694	7	8719	6	9831	25	4119	16	8351	11	9590	11	11783	11	10161	16	10161	16
25	NK 6240 (C)	11327	19	6823	23	12412	17	4635	10	6662	24	8123	24	11116	20	9411	24	9411	24
	Mean	12002.6	.	8127.1	.	12966.4	.	4488.6	.	8239.1	.	9497.8	.	11722.0	.	10425.8	.	10425.8	.
	CV (%)	11.7	.	16.2	.	16.6	.	21.1	.	12.6	.	16.9	.	10.8	.	14.4	.	14.4	.
	F (Prob)	0.0	.	0.2	.	0.0	.	0.0	.	0.0	.	0.4	.	0.0	.	0.0	.	0.0	.
	CD (5%)	2311.3	.	2160.0	.	3522.9	.	1557.1	.	1702.7	.	2633.3	.	2077.0	.	986.6	.	986.6	.
	CD (1%)	3083.3	.	2881.4	.	4699.6	.	2077.2	.	2271.5	.	3512.8	.	2770.8	.	1299.8	.	1299.8	.

Table No. : 12 (Conti...)

Gain in Yield (%) over Bio 9682 (Check)

S. No.	Entry Name	NWPZ																All India	
		ALIG		GURD		IARI		KAPU		KARN		LUDH		PANT		NWPZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADV 1390164	17.03	4	-2.23	13	32.70	3	11.63	3	4.68	15	32.33	3	-2.69	14	14.09	3	14.09	3
2	ADV 7132	25.24	2	-7.62	19	28.03	4	16.29	1	9.14	10	32.41	2	13.28	2	17.73	1	17.73	1
3	B57	4.70	11	-2.55	14	-8.86	21	-30.24	21	8.05	12	10.70	14	-4.37	16	0.43	18	0.43	18
4	BLH 137	-11.92	24	-9.15	20	8.48	12	-24.01	17	0.52	18	0.52	22	-13.01	23	-4.33	23	-4.33	23
5	Bio 218	16.07	5	2.16	7	-8.88	22	-13.78	9	29.88	1	20.05	7	-2.16	13	7.82	8	7.82	8
6	Bio 534	-6.95	23	3.87	5	0.52	18	-21.53	15	20.52	3	19.43	8	-6.48	19	3.38	13	3.38	13
7	CP 858	4.38	12	0.88	9	34.97	1	-5.15	7	29.83	2	19.05	9	3.54	7	15.17	2	15.17	2
8	HT 17169	-0.09	17	14.97	1	9.94	10	-28.74	20	15.63	5	10.17	16	3.72	6	8.25	7	8.25	7
9	JH 16041	-6.51	22	-13.70	22	4.33	15	-26.48	19	5.17	14	10.95	13	-9.36	21	-1.98	22	-1.98	22
10	JH 16081	-0.89	18	10.65	2	-10.34	23	-16.76	11	14.18	6	14.47	12	-4.83	17	2.13	14	2.13	14
11	JH 16224	-19.12	25	-7.03	18	10.33	9	13.46	2	7.81	13	18.99	10	4.44	5	1.95	15	1.95	15
12	JH 17026	5.85	8	-3.22	16	8.89	11	-39.42	24	13.43	7	22.23	5	-3.76	15	6.53	11	6.53	11
13	JKMH 150375	11.35	6	-0.24	11	5.56	14	-54.69	25	12.53	8	8.45	17	8.07	4	7.66	9	7.66	9
14	KMH 005	28.43	1	-2.62	15	19.62	6	-31.33	23	12.33	9	2.72	20	-5.14	18	9.97	5	9.97	5
15	KMH 463	17.70	3	-27.38	25	15.22	7	-0.58	5	1.03	16	20.99	6	-1.99	12	5.27	12	5.27	12
16	PM 18101 L	1.35	14	6.59	3	14.06	8	-31.19	22	-10.64	23	-5.58	25	-9.65	22	-0.06	20	-0.06	20
17	PM 18104 L	4.33	13	-27.19	24	22.03	5	-24.82	18	-0.99	21	8.12	18	-16.42	24	-0.84	21	-0.84	21
18	PM 18105 L	-3.03	21	4.79	4	34.16	2	-18.85	13	16.78	4	10.45	15	2.32	8	11.02	4	11.02	4
19	PM 18106 L	5.27	9	1.21	8	-7.38	20	-19.53	14	-2.69	22	39.29	1	11.47	3	7.12	10	7.12	10
20	SUPER 1818	0.14	15	-9.25	21	6.78	13	-1.36	6	-0.67	20	3.81	19	0.74	9	0.68	17	0.68	17
21	SYN816514	5.17	10	-0.25	12	3.53	16	-17.89	12	0.94	17	25.03	4	18.04	1	8.86	6	8.86	6
22	TS 2505	-3.01	20	-6.13	17	-13.41	24	-13.15	8	-15.14	25	1.72	21	-22.34	25	-10.28	25	-10.28	25
23	Bio 9682 (C)	0.00	16	0.00	10	0.00	19	0.00	4	0.00	19	0.00	23	0.00	10	0.00	19	0.00	19
24	CMH 08-287 (C)	10.16	7	3.47	6	-18.26	25	-23.49	16	8.11	11	14.62	11	-1.28	11	1.61	16	1.61	16
25	NK 6240 (C)	-1.71	19	-19.03	23	3.20	17	-13.90	10	-13.75	24	-2.91	24	-6.86	20	-5.90	24	-5.90	24

Table No. : 12 (Conti...)

Gain in Yield (%) over CMH 08-287 (Check)

S. No.	Entry Name	NWPZ																All India	
		ALIG		GURD		IARI		KAPU		KARN		LUDH		PANT		NWPZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADV 1390164	6.24	4	-5.50	13	62.35	3	45.90	3	-3.17	15	15.45	3	-1.43	14	12.29	3	12.29	3
2	ADV 7132	13.70	2	-10.72	19	56.64	4	52.00	1	0.95	10	15.52	2	14.74	2	15.87	1	15.87	1
3	B57	-4.96	11	-5.81	14	11.50	21	-8.83	21	-0.06	12	-3.42	14	-3.14	16	-1.16	18	-1.16	18
4	BLH 137	-20.05	24	-12.19	20	32.71	12	-0.68	17	-7.02	18	-12.30	22	-11.89	23	-5.84	23	-5.84	23
5	Bio 218	5.36	5	-1.26	7	11.47	22	12.69	9	20.13	1	4.74	7	-0.90	13	6.12	8	6.12	8
6	Bio 534	-15.53	23	0.39	5	22.98	18	2.57	15	11.47	3	4.19	8	-5.27	19	1.74	13	1.74	13
7	CP 858	-5.25	12	-2.50	9	65.13	1	23.97	7	20.09	2	3.86	9	4.87	7	13.35	2	13.35	2
8	HT 17169	-9.30	17	11.12	1	34.51	10	-6.86	20	6.95	5	-3.88	16	5.06	6	6.54	7	6.54	7
9	JH 16041	-15.13	22	-16.59	22	27.64	15	-3.90	19	-2.73	14	-3.20	13	-8.19	21	-3.53	22	-3.53	22
10	JH 16081	-10.03	18	6.95	2	9.69	23	8.79	11	5.61	6	-0.13	12	-3.60	17	0.52	14	0.52	14
11	JH 16224	-26.57	25	-10.14	18	34.98	9	48.30	2	-0.28	13	3.81	10	5.79	5	0.34	15	0.34	15
12	JH 17026	-3.91	8	-6.46	16	33.22	11	-20.82	24	4.91	7	6.64	5	-2.51	15	4.85	11	4.85	11
13	JKMH 150375	1.08	6	-3.58	11	29.14	14	-40.78	25	4.09	8	-5.38	17	9.47	4	5.96	9	5.96	9
14	KMH 005	16.58	1	-5.88	15	46.34	6	-10.24	23	3.89	9	-10.38	20	-3.91	18	8.23	5	8.23	5
15	KMH 463	6.84	3	-29.81	25	40.97	7	29.95	5	-6.55	16	5.55	6	-0.72	12	3.60	12	3.60	12
16	PM 18101 L	-7.99	14	3.02	3	39.54	8	-10.06	22	-17.35	23	-17.62	25	-8.48	22	-1.64	20	-1.64	20
17	PM 18104 L	-5.29	13	-29.63	24	49.29	5	-1.74	18	-8.42	21	-5.67	18	-15.34	24	-2.40	21	-2.40	21
18	PM 18105 L	-11.97	21	1.28	4	64.13	2	6.07	13	8.01	4	-3.64	15	3.65	8	9.26	4	9.26	4
19	PM 18106 L	-4.43	9	-2.18	8	13.31	20	5.18	14	-10.00	22	21.52	1	12.91	3	5.42	10	5.42	10
20	SUPER 1818	-9.09	15	-12.29	21	30.63	13	28.93	6	-8.12	20	-9.43	19	2.04	9	-0.91	17	-0.91	17
21	SYN816514	-4.53	10	-3.59	12	26.66	16	7.32	12	-6.64	17	9.08	4	19.56	1	7.14	6	7.14	6
22	TS 2505	-11.96	20	-9.27	17	5.93	24	13.52	8	-21.51	25	-11.25	21	-21.34	25	-11.70	25	-11.70	25
23	Bio 9682 (C)	-9.22	16	-3.35	10	22.34	19	30.70	4	-7.51	19	-12.75	23	1.29	10	-1.58	19	-1.58	19
24	CMH 08-287 (C)	0.00	7	0.00	6	0.00	25	0.00	16	0.00	11	0.00	11	0.00	11	0.00	16	0.00	16
25	NK 6240 (C)	-10.77	19	-21.74	23	26.26	17	12.54	10	-20.23	24	-15.30	24	-5.66	20	-7.39	24	-7.39	24

Table No. : 12 (Conti...)

Gain in Yield (%) over NK 6240 (Check)

S. No.	Entry Name	NWPZ																All India	
		ALIG		GURD		IARI		KAPU		KARN		LUDH		PANT		NWPZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADV 1390164	19.07	4	20.75	13	28.59	3	29.64	3	21.38	15	36.30	3	4.48	14	21.24	3	21.24	3
2	ADV 7132	27.42	2	14.09	19	24.06	4	35.06	1	26.54	10	36.38	2	21.63	2	25.12	1	25.12	1
3	B57	6.51	11	20.36	14	-11.69	21	-18.99	21	25.29	12	14.02	14	2.68	16	6.73	18	6.73	18
4	BLH 137	-10.40	24	12.20	20	5.11	12	-11.75	17	16.56	18	3.53	22	-6.60	23	1.68	23	1.68	23
5	Bio 218	18.08	5	26.18	7	-11.71	22	0.13	9	50.59	1	23.66	7	5.05	13	14.58	8	14.58	8
6	Bio 534	-5.33	23	28.28	5	-2.59	18	-8.86	15	39.74	3	23.01	8	0.41	19	9.86	13	9.86	13
7	CP 858	6.19	12	24.59	9	30.78	1	10.16	7	50.54	2	22.62	9	11.17	7	22.40	2	22.40	2
8	HT 17169	1.65	17	41.99	1	6.53	10	-17.24	20	34.07	5	13.48	16	11.36	6	15.04	7	15.04	7
9	JH 16041	-4.89	22	6.59	22	1.10	15	-14.61	19	21.94	14	14.28	13	-2.68	21	4.17	22	4.17	22
10	JH 16081	0.83	18	36.66	2	-13.12	23	-3.33	11	32.39	6	17.91	12	2.18	17	8.54	14	8.54	14
11	JH 16224	-17.71	25	14.83	18	6.91	9	31.77	2	25.01	13	22.56	10	12.14	5	8.34	15	8.34	15
12	JH 17026	7.68	8	19.53	16	5.51	11	-29.65	24	31.52	7	25.89	5	3.33	15	13.21	11	13.21	11
13	JKMH 150375	13.28	6	23.21	11	2.28	14	-47.38	25	30.48	8	11.70	17	16.04	4	14.41	9	14.41	9
14	KMH 005	30.66	1	20.27	15	15.91	6	-20.24	23	30.24	9	5.81	20	1.86	18	16.86	5	16.86	5
15	KMH 463	19.74	3	-10.31	25	11.65	7	15.47	5	17.15	16	24.62	6	5.23	12	11.87	12	11.87	12
16	PM 18101 L	3.11	14	31.65	3	10.52	8	-20.08	22	3.61	23	-2.75	25	-2.99	22	6.20	20	6.20	20
17	PM 18104 L	6.14	13	-10.07	24	18.24	5	-12.69	18	14.80	21	11.36	18	-10.26	24	5.38	21	5.38	21
18	PM 18105 L	-1.35	21	29.42	4	30.00	2	-5.75	13	35.40	4	13.76	15	9.86	8	17.98	4	17.98	4
19	PM 18106 L	7.10	9	25.00	8	-10.25	20	-6.54	14	12.82	22	43.47	1	19.68	3	13.83	10	13.83	10
20	SUPER 1818	1.88	15	12.08	21	3.46	13	14.56	6	15.18	20	6.92	19	8.17	9	6.99	17	6.99	17
21	SYN816514	7.00	10	23.20	12	0.32	16	-4.64	12	17.04	17	28.78	4	26.74	1	15.69	6	15.69	6
22	TS 2505	-1.33	20	15.94	17	-16.10	24	0.87	8	-1.60	25	4.78	21	-16.62	25	-4.65	25	-4.65	25
23	Bio 9682 (C)	1.74	16	23.51	10	-3.10	19	16.14	4	15.95	19	3.00	23	7.37	10	6.27	19	6.27	19
24	CMH 08-287 (C)	12.07	7	27.79	6	-20.80	25	-11.14	16	25.36	11	18.06	11	6.00	11	7.98	16	7.98	16
25	NK 6240 (C)	0.00	19	0.00	23	0.00	17	0.00	10	0.00	24	0.00	24	0.00	20	0.00	24	0.00	24

Table No. : 12 (Conti...)																			
		Number of cobs								Ear height (cm)									
S. No.	Entry Name	NWPZ							All India	NWPZ								All India
		ALIG	GURD	IARI	KARN	LUDH	PANT	NWPZ		ALIG	GURD	IARI	KAPU	KARN	LUDH	PANT	NWPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 1390164	109	86	80	148	117	120	110	110	108	115	139	98	110	127	137	119	119
2	ADV 7132	109	90	80	161	119	131	115	115	120	128	143	120	107	137	148	129	129
3	B57	112	97	73	156	113	117	111	111	106	107	127	93	80	122	132	110	110
4	BLH 137	105	87	74	159	113	111	108	108	145	113	148	122	113	147	156	135	135
5	Bio 218	110	80	64	156	114	122	108	108	120	117	147	118	113	148	144	130	130
6	Bio 534	104	98	69	157	116	120	111	111	122	112	146	114	114	135	125	124	124
7	CP 858	110	91	76	158	111	120	111	111	126	103	145	118	90	123	141	121	121
8	HT 17169	109	104	88	158	111	136	118	118	128	112	143	111	90	125	138	121	121
9	JH 16041	112	101	79	156	117	127	115	115	125	118	150	120	116	135	160	132	132
10	JH 16081	107	93	69	152	119	130	112	112	151	127	155	117	123	147	151	139	139
11	JH 16224	112	95	79	154	116	131	115	115	139	118	151	136	101	152	148	135	135
12	JH 17026	107	85	72	148	121	119	109	109	123	117	145	125	117	133	144	129	129
13	JKMH 150375	104	79	75	153	116	113	107	107	130	135	145	130	119	130	150	134	134
14	KMH 005	110	84	71	148	111	125	108	108	133	113	152	121	110	138	148	131	131
15	KMH 463	105	95	75	158	115	116	111	111	112	98	141	115	100	122	139	118	118
16	PM 18101 L	112	98	69	150	118	114	110	110	125	113	154	120	115	138	130	128	128
17	PM 18104 L	107	71	74	158	118	110	106	106	142	132	162	138	125	152	161	144	144
18	PM 18105 L	113	106	83	154	115	132	117	117	114	112	138	107	106	122	135	119	119
19	PM 18106 L	108	103	63	150	126	132	114	114	126	118	144	118	102	133	153	128	128
20	SUPER 1818	108	81	77	149	115	124	109	109	118	120	147	118	102	117	136	123	123
21	SYN816514	108	92	79	153	120	131	114	114	103	105	137	109	105	122	126	115	115
22	TS 2505	109	102	70	151	113	118	111	111	105	100	142	107	103	117	122	114	114
23	Bio 9682 (C)	111	106	78	151	124	134	117	117	119	123	141	116	106	130	141	125	125
24	CMH 08-287 (C)	106	82	56	154	114	115	105	105	140	137	163	123	116	155	149	141	141
25	NK 6240 (C)	109	82	75	158	114	121	110	110	113	112	138	113	98	137	132	120	120
	Mean	108.7	91.5	73.9	154.0	116.2	122.7	111.2	111.2	123.8	116.2	145.8	117.1	107.3	133.7	141.9	126.5	126.5
	CV (%)	4.5	9.8	14.1	4.4	5.9	7.0	7.2	7.2	8.2	8.8	5.3	9.2	10.4	8.2	7.3	8.1	8.1
	F (Prob)	0.7	0.0	0.2	0.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	8.1	14.8	17.1	11.0	11.2	14.1	5.2	5.2	16.6	16.8	12.7	17.6	18.3	17.9	17.0	6.2	6.2
	CD (1%)	10.8	19.7	22.8	14.7	15.0	18.8	6.9	6.9	22.2	22.4	17.0	23.5	24.4	23.9	22.7	8.2	8.2

Table No. : 12 (Conti...)

S. No.	Entry Name	Final plant stand								Moisture (%)							
		NWPZ							All India	NWPZ							All India
		ALIG	IARI	KAPU	KARN	LUDH	PANT	NWPZ		ALIG	GURD	IARI	KARN	LUDH	PANT	NWPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 1390164	79	68	70	69	79	66	72	72	16.8	22.3	25.2	24.8	23.7	29.9	23.8	23.8
2	ADV 7132	79	70	72	68	78	68	72	72	17.4	21.7	26.4	24.6	24.9	29.1	24.0	24.0
3	B57	78	65	68	69	78	65	70	70	17.3	22.3	28.0	24.1	20.7	24.0	22.7	22.7
4	BLH 137	77	65	66	69	78	61	70	70	16.5	21.2	28.6	25.1	22.8	27.3	23.6	23.6
5	Bio 218	80	57	70	69	75	66	69	69	16.5	21.2	28.2	23.8	20.1	28.5	23.0	23.0
6	Bio 534	73	59	66	70	79	66	69	69	16.6	22.3	27.8	24.1	19.8	29.6	23.4	23.4
7	CP 858	77	67	69	69	76	65	70	70	17.0	21.8	24.9	25.1	22.8	24.9	22.7	22.7
8	HT 17169	82	76	67	69	75	69	73	73	16.2	22.8	25.9	24.4	22.8	27.0	23.2	23.2
9	JH 16041	80	70	66	69	78	67	72	72	15.7	22.9	26.9	23.8	20.1	28.3	22.9	22.9
10	JH 16081	79	62	65	69	78	68	70	70	16.9	23.3	27.0	24.4	18.9	26.2	22.8	22.8
11	JH 16224	79	71	70	69	78	68	72	72	16.5	21.3	26.0	24.5	19.3	22.0	21.6	21.6
12	JH 17026	78	63	65	69	78	65	70	70	15.2	21.8	25.5	24.6	20.5	22.1	21.6	21.6
13	JKMH 150375	78	66	66	68	76	62	69	69	16.6	21.3	27.5	25.3	23.5	28.9	23.9	23.9
14	KMH 005	79	62	67	69	75	67	70	70	15.7	21.7	26.2	24.1	21.6	26.6	22.6	22.6
15	KMH 463	76	66	68	68	79	63	70	70	17.0	21.8	26.6	24.6	23.6	31.0	24.1	24.1
16	PM 18101 L	79	60	68	70	80	63	70	70	17.3	22.3	26.1	23.9	19.8	28.2	22.9	22.9
17	PM 18104 L	76	65	64	69	79	61	69	69	16.8	22.8	25.4	25.5	23.4	29.6	23.9	23.9
18	PM 18105 L	79	73	70	68	76	68	72	72	16.5	21.6	26.3	23.8	20.5	24.9	22.3	22.3
19	PM 18106 L	79	54	69	69	79	69	70	70	16.9	22.3	26.8	25.0	24.9	28.8	24.1	24.1
20	SUPER 1818	77	67	69	68	79	67	71	71	15.2	23.2	28.0	24.2	22.6	29.8	23.8	23.8
21	SYN816514	79	69	68	68	79	68	72	72	17.1	23.3	24.8	24.8	20.7	25.5	22.7	22.7
22	TS 2505	76	61	69	69	79	65	70	70	17.7	22.3	28.4	24.2	19.7	25.9	23.0	23.0
23	Bio 9682 (C)	80	69	66	68	80	68	72	72	16.9	22.3	25.8	23.5	20.9	26.7	22.7	22.7
24	CMH 08-287 (C)	76	49	68	70	77	64	67	67	16.5	21.8	25.3	23.9	20.9	28.3	22.8	22.8
25	NK 6240 (C)	80	66	69	69	78	64	71	71	17.2	22.6	27.7	25.1	18.7	22.0	22.2	22.2
	Mean	78.3	64.8	67.7	68.8	77.8	65.7	70.5	70.5	16.7	22.2	26.6	24.5	21.5	27.0	23.1	23.1
	CV (%)	4.4	13.6	4.4	1.2	2.5	4.8	6.2	6.2	6.6	2.9	8.6	4.0	3.9	5.2	5.7	5.7
	F (Prob)	0.6	0.2	0.3	0.2	0.0	0.1	0.0	0.0	0.5	0.0	0.8	0.6	0.0	0.0	0.0	0.0
	CD (5%)	5.6	14.5	4.9	1.3	3.2	5.2	2.8	2.8	1.8	1.0	3.8	1.6	1.4	2.3	0.9	0.9
	CD (1%)	7.5	19.3	6.6	1.8	4.3	6.9	3.8	3.8	2.4	1.4	5.0	2.1	1.8	3.0	1.1	1.1

Table No. : 12 (Conti...)		Days to 75% Dry husk									Days to 50% Anthesis								
S. No.	Entry Name	NWPZ								All India	NWPZ								All India
		ALIG	GURD	IARI	KAPU	KARN	LUDH	PANT	NWPZ		ALIG	GURD	IARI	KAPU	KARN	LUDH	PANT	NWPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 1390164	98	97	98	89	91	95	103	96	96	55	61	47	54	57	57	59	56	56
2	ADV 7132	96	96	103	92	92	96	105	97	97	53	62	51	55	57	57	59	56	56
3	B57	97	96	95	90	89	93	105	95	95	52	58	47	55	54	54	58	54	54
4	BLH 137	98	97	101	87	92	98	107	97	97	54	62	50	53	57	57	59	56	56
5	Bio 218	97	98	103	89	90	95	105	97	97	53	59	52	54	55	57	60	56	56
6	Bio 534	93	98	100	92	89	96	105	96	96	52	58	50	56	55	56	60	55	55
7	CP 858	97	97	98	88	93	93	104	96	96	53	59	46	57	60	56	60	56	56
8	HT 17169	97	96	98	91	91	94	102	96	96	52	60	49	56	55	56	58	55	55
9	JH 16041	94	96	101	88	89	90	102	94	94	53	61	51	53	55	55	58	55	55
10	JH 16081	96	96	101	89	88	91	102	95	95	54	59	51	53	56	57	59	56	56
11	JH 16224	98	95	104	88	90	93	103	96	96	53	62	55	53	56	58	60	57	57
12	JH 17026	96	94	94	91	87	91	102	93	93	53	61	42	52	56	58	57	54	54
13	JKMH 150375	98	98	105	88	94	97	104	98	98	54	65	55	54	58	60	61	58	58
14	KMH 005	97	96	98	91	89	94	104	96	96	53	61	48	54	54	56	59	55	55
15	KMH 463	96	98	99	91	93	93	104	96	96	52	63	49	53	57	56	59	56	56
16	PM 18101 L	97	98	103	91	91	98	108	98	98	54	61	52	53	56	57	60	56	56
17	PM 18104 L	97	97	107	82	92	98	109	98	98	55	63	55	53	57	59	62	58	58
18	PM 18105 L	97	98	102	89	87	95	104	96	96	52	59	51	54	54	55	59	55	55
19	PM 18106 L	96	96	100	86	91	96	102	95	95	55	61	49	53	57	58	59	56	56
20	SUPER 1818	96	97	98	88	93	97	104	96	96	54	62	50	54	58	57	58	56	56
21	SYN816514	98	97	101	89	92	93	106	96	96	54	63	51	55	56	55	60	56	56
22	TS 2505	97	96	95	85	89	91	104	94	94	53	61	44	54	54	55	59	54	54
23	Bio 9682 (C)	97	97	102	89	88	98	107	97	97	52	61	52	55	54	55	60	56	56
24	CMH 08-287 (C)	97	97	94	88	90	93	106	95	95	53	62	43	53	55	58	60	55	55
25	NK 6240 (C)	96	93	101	88	87	91	104	94	94	51	58	49	52	54	55	59	54	54
	Mean	96.6	96.6	100.1	88.8	90.4	94.4	104.4	95.9	95.9	53.2	60.8	49.5	54.0	55.9	56.6	59.3	55.6	55.6
	CV (%)	1.4	2.0	5.7	4.2	2.9	1.5	1.8	3.2	3.2	1.5	2.6	10.8	3.8	3.6	1.9	2.0	4.4	4.4
	F (Prob)	0.0	0.2	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.1	0.0	0.0	0.0	0.0
	CD (5%)	2.2	3.1	9.4	6.1	4.3	2.3	3.1	1.8	1.8	1.3	2.6	8.8	3.4	3.3	1.8	1.9	1.5	1.5
	CD (1%)	2.9	4.1	12.5	8.2	5.7	3.1	4.1	2.4	2.4	1.8	3.4	11.7	4.5	4.5	2.4	2.6	2.0	2.0

Table No. : 12 (Conti...)

S. No.	Entry Name	Days to 50% Silking									Plant height (cm)								
		NWPZ								All India	NWPZ								All India
		ALIG	GURD	IARI	KAPU	KARN	LUDH	PANT	NWPZ		ALIG	GURD	IARI	KAPU	KARN	LUDH	PANT	NWPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 1390164	58	62	49	56	58	59	62	58	58	238	213	246	235	203	235	290	237	237
2	ADV 7132	56	63	54	55	58	59	62	58	58	236	207	238	235	192	232	295	233	233
3	B57	56	60	50	55	55	56	61	56	56	242	215	227	208	199	220	277	227	227
4	BLH 137	58	63	53	57	58	59	62	59	59	257	207	256	238	225	252	319	251	251
5	Bio 218	56	60	55	54	56	58	63	58	58	267	233	263	240	232	257	318	259	259
6	Bio 534	56	59	53	56	56	57	63	57	57	256	230	251	240	215	248	280	246	246
7	CP 858	57	60	50	57	61	57	63	58	58	270	217	263	243	220	248	315	254	254
8	HT 17169	56	61	52	56	57	58	60	57	57	255	220	253	229	205	232	316	244	244
9	JH 16041	56	62	54	55	57	56	61	57	57	269	185	263	239	217	248	313	248	248
10	JH 16081	57	60	54	55	57	58	61	57	57	290	238	259	252	215	257	323	262	262
11	JH 16224	58	63	58	55	57	59	63	59	59	277	215	264	275	220	257	313	260	260
12	JH 17026	57	62	47	56	57	59	60	57	57	277	245	264	242	233	265	328	265	265
13	JKMH 150375	60	67	59	56	60	62	64	61	61	282	268	271	255	212	258	340	270	270
14	KMH 005	56	62	51	57	55	58	62	57	57	277	220	265	236	220	252	318	255	255
15	KMH 463	56	65	52	54	59	57	62	58	58	237	200	246	243	202	240	309	240	240
16	PM 18101 L	59	62	55	54	58	59	63	59	59	269	218	268	245	217	245	318	254	254
17	PM 18104 L	59	64	58	55	59	60	65	60	60	272	245	276	261	215	252	334	265	265
18	PM 18105 L	56	60	54	55	56	56	61	57	57	255	227	249	236	198	253	304	246	246
19	PM 18106 L	58	62	52	54	58	60	62	58	58	291	253	261	247	225	255	338	267	267
20	SUPER 1818	57	63	53	56	59	59	61	58	58	244	213	249	238	195	222	298	237	237
21	SYN816514	57	64	54	57	57	57	63	58	58	234	208	239	237	195	235	290	234	234
22	TS 2505	57	62	47	54	55	57	61	56	56	232	197	243	244	190	217	288	230	230
23	Bio 9682 (C)	57	63	55	55	55	58	62	58	58	229	210	239	234	202	223	296	233	233
24	CMH 08-287 (C)	57	64	46	55	57	60	63	57	57	262	243	267	242	224	255	322	259	259
25	NK 6240 (C)	55	59	51	55	55	57	61	56	56	233	203	239	230	198	233	288	232	232
	Mean	57.0	62.0	52.6	55.4	57.2	58.1	62.1	57.8	57.8	258.1	221.3	254.3	241.0	210.7	243.6	309.2	248.3	248.3
	CV (%)	1.3	2.7	10.2	3.2	3.8	1.9	1.8	4.3	4.3	3.9	8.4	4.1	5.0	6.7	4.7	4.0	5.2	5.2
	F (Prob)	0.0	0.0	0.4	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	1.2	2.7	8.8	2.9	3.6	1.8	1.9	1.5	1.5	16.3	30.7	17.1	19.7	23.1	18.9	20.4	7.9	7.9
	CD (1%)	1.6	3.6	11.8	3.8	4.8	2.5	2.5	2.0	2.0	21.8	40.9	22.9	26.3	30.8	25.2	27.2	10.4	10.4

Table No. : 12 (Conti...)		Initial Plant stand								Shelling (%)								
S. No.	Entry Name	NWPZ							All India	NWPZ								All India
		ALIG	GURD	IARI	KARN	LUDH	PANT	NWPZ		ALIG	GURD	IARI	KAPU	KARN	LUDH	PANT	NWPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 1390164	119	86	87	120	125	125	110	110	91	81	86	75	81	86	86	84	84
2	ADV 7132	121	90	87	119	125	130	112	112	92	82	86	79	83	85	86	85	85
3	B57	119	97	86	120	124	126	112	112	87	82	81	76	82	84	87	83	83
4	BLH 137	120	87	81	120	125	121	109	109	82	81	80	73	81	84	84	81	81
5	Bio 218	120	79	83	120	121	128	109	109	85	79	83	78	81	85	86	82	82
6	Bio 534	114	98	83	120	125	125	111	111	89	82	82	81	82	85	87	84	84
7	CP 858	117	91	85	119	124	124	110	110	87	83	84	77	81	86	87	84	84
8	HT 17169	123	104	90	119	119	132	115	115	87	82	83	73	82	84	87	82	82
9	JH 16041	121	101	87	119	125	130	114	114	86	80	85	79	81	85	86	83	83
10	JH 16081	122	93	86	119	125	131	113	113	84	80	83	73	82	85	86	82	82
11	JH 16224	122	95	88	120	124	130	113	113	82	81	85	80	83	84	83	83	83
12	JH 17026	121	84	83	119	124	124	109	109	83	81	81	73	82	84	82	81	81
13	JKMH 150375	119	79	85	120	123	118	107	107	87	80	82	70	81	85	83	81	81
14	KMH 005	120	83	79	119	120	129	108	108	85	80	85	72	82	81	85	81	81
15	KMH 463	117	95	86	118	126	122	111	111	87	81	79	74	81	86	85	82	82
16	PM 18101 L	119	98	84	120	126	121	111	111	89	81	85	76	81	83	85	83	83
17	PM 18104 L	117	70	85	120	126	117	106	106	85	80	84	78	80	84	85	82	82
18	PM 18105 L	122	106	87	120	122	130	114	114	87	82	85	76	83	81	84	83	83
19	PM 18106 L	121	103	79	119	126	134	114	114	86	79	84	76	84	85	86	83	83
20	SUPER 1818	120	80	85	119	126	128	110	110	84	79	87	74	82	83	83	82	82
21	SYN816514	122	92	86	119	125	134	113	113	86	80	82	77	81	86	85	82	82
22	TS 2505	117	102	83	120	125	128	113	113	84	78	82	78	84	84	83	82	82
23	Bio 9682 (C)	119	105	87	119	126	130	114	114	85	81	80	77	82	82	83	82	82
24	CMH 08-287 (C)	116	82	75	120	125	123	107	107	85	80	85	76	82	85	87	83	83
25	NK 6240 (C)	121	81	86	119	124	124	109	109	86	80	84	76	81	85	87	83	83
	Mean	119.6	91.2	84.5	119.4	124.3	126.5	110.9	110.9	85.9	80.5	83.3	76.0	81.8	84.3	85.1	82.4	82.4
	CV (%)	2.8	10.2	6.3	0.8	2.1	5.3	4.9	4.9	1.0	2.7	4.0	6.9	1.0	1.7	1.4	3.2	3.2
	F (Prob)	0.2	0.0	0.3	0.6	0.1	0.2	0.0	0.0	0.0	0.7	0.3	0.8	0.0	0.0	0.0	0.0	0.0
	CD (5%)	5.4	15.2	8.7	1.5	4.2	11.1	3.6	3.6	1.4	3.6	5.5	8.6	1.3	2.3	2.0	1.6	1.6
	CD (1%)	7.2	20.3	11.7	2.0	5.6	14.8	4.7	4.7	1.8	4.8	7.4	11.5	1.8	3.1	2.7	2.1	2.1

Table No. : 13 **Trial No: 630 (Early Maturity) AVT-I**

Yield (Kg/ha)

S. No.	Entry Name	NEPZ																		All India	
		BHU		BAHA		BHUB		DHOL		KORA		MEDI		RANC		SABO		NEPZ			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	FH 3861	8419	5	4444	6	5786	4	8230	4	4858	5	6296	3	7696	3	5778	4	6726	4	6726	4
2	FH 3879	10055	1	5202	2	5831	2	9644	1	5313	4	5932	4	7181	5	7661	1	7596	1	7596	1
3	JH 31950	8247	6	4692	5	5906	1	7641	5	4824	7	5609	5	7155	6	6227	3	6645	5	6645	5
4	JH 32056	9845	2	5163	3	5233	8	9359	2	5971	2	7332	1	7969	2	5500	6	7178	2	7178	2
5	JH 32057	8663	4	4919	4	5342	6	8871	3	4837	6	6990	2	5921	7	5773	5	6582	6	6582	6
6	Bio 605 (C)	6564	8	5352	1	5307	7	7357	6	6925	1	3766	7	5862	8	4599	7	5840	7	5840	7
7	DKC 7074 (C)	8777	3	4258	7	5792	3	7094	8	5709	3	4284	6	8838	1	6302	2	6844	3	6844	3
8	Vivek HYBRID 45 (C)	7876	7	3374	8	5387	5	7191	7	4055	8	3760	8	7321	4	3804	8	5825	8	5825	8
	Mean	8555.9	.	4675.3	.	5573.1	.	8173.5	.	5311.4	.	5496.0	.	7242.8	.	5705.5	.	6619.7	.	6619.7	.
	CV (%)	8.3	.	17.9	.	7.9	.	12.3	.	35.4	.	32.6	.	15.6	.	9.6	.	11.8	.	11.8	.
	F (Prob)	0.0	.	0.2	.	0.4	.	0.0	.	0.7	.	0.2	.	0.3	.	0.0	.	0.0	.	0.0	.
	CD (5%)	1240.1	.	1467.1	.	771.8	.	1753.4	.	3295.8	.	3140.1	.	2174.6	.	958.6	.	537.9	.	537.9	.
	CD (1%)	1721.2	.	2036.3	.	1071.2	.	2433.6	.	4574.4	.	4358.2	.	3218.2	.	1330.4	.	713.4	.	713.4	.

Plant stand

S. No.	Entry Name	NEPZ								All India
		BHU	BAHA	DHOL	KORA	MEDI	RANC	SABO	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH 3861	73	66	80	80	80	81	120	83	83
2	FH 3879	78	66	76	80	80	80	118	83	83
3	JH 31950	68	66	74	80	79	77	113	80	80
4	JH 32056	76	64	79	80	80	84	114	83	83
5	JH 32057	71	64	77	80	75	70	117	79	79
6	Bio 605 (C)	69	65	73	80	80	76	112	79	79
7	DKC 7074 (C)	73	66	79	80	79	80	120	83	83
8	Vivek HYBRID 45 (C)	75	63	73	80	80	77	114	80	80
	Mean	72.8	65.0	76.5	80.0	78.9	78.3	116.0	81.1	81.1
	CV (%)	3.5	1.8	7.0	0.0	1.4	7.8	2.1	4.2	4.2
	F (Prob)	0.0	0.0	0.6	.	0.0	0.2	0.0	0.0	0.0
	CD (5%)	4.5	2.0	9.3	0.0	1.9	10.7	4.3	2.1	2.1
	CD (1%)	6.2	2.8	13.0	0.0	2.7	14.9	5.9	2.8	2.8

Shelling (%)

S. No.	Entry Name	NEPZ									All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	SABO	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH 3861	76	80	80	78	80	76	85	83	80	80
2	FH 3879	80	78	80	79	81	76	85	86	80	80
3	JH 31950	76	77	81	78	78	76	86	86	80	80
4	JH 32056	77	77	80	78	81	81	85	82	80	80
5	JH 32057	80	78	80	80	82	80	84	86	81	81
6	Bio 605 (C)	77	78	81	80	81	69	85	82	79	79
7	DKC 7074 (C)	76	75	80	79	79	72	82	86	78	78
8	Vivek HYBRID 45 (C)	82	75	81	88	80	72	86	86	81	81
	Mean	77.9	77.2	80.5	79.7	80.1	75.4	84.7	84.6	79.8	79.8
	CV (%)	0.6	1.4	0.9	3.9	3.1	6.9	2.3	0.0	3.1	3.1
	F (Prob)	0.0	0.0	0.2	0.0	0.5	0.1	0.7	0.0	0.0	0.0
	CD (5%)	0.9	1.9	1.2	5.5	4.3	9.1	3.8	0.0	1.4	1.4
	CD (1%)	1.2	2.7	1.7	7.6	6.0	12.6	5.6	0.0	1.9	1.9

Table No. : 13 (Conti...)

Gain in Yield (%) over Bio 605 (Check)

S. No.	Entry Name	NEPZ																All India	
		BHU		BAHA		BHUB		DHOL		KORA		MEDI		RANC		SABO		NEPZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	FH 3861	28.27	5	-16.96	6	9.03	4	11.86	4	-29.85	5	67.19	3	31.29	3	25.64	4	15.16	4	15.16	4
2	FH 3879	53.20	1	-2.80	2	9.88	2	31.08	1	-23.28	4	57.52	4	22.50	5	66.59	1	30.06	1	30.06	1
3	JH 31950	25.64	6	-12.32	5	11.28	1	3.86	5	-30.34	7	48.96	5	22.06	6	35.42	3	13.78	5	13.78	5
4	JH 32056	49.99	2	-3.53	3	-1.39	8	27.21	2	-13.79	2	94.70	1	35.94	2	19.61	6	22.91	2	22.91	2
5	JH 32057	31.99	4	-8.08	4	0.66	6	20.57	3	-30.16	6	85.61	2	1.01	7	25.55	5	12.70	6	12.70	6
6	Bio 605 (C)	0.00	8	0.00	1	0.00	7	0.00	6	0.00	1	0.00	7	0.00	8	0.00	7	0.00	7	0.00	7
7	DKC 7074 (C)	33.73	3	-20.44	7	9.14	3	-3.58	8	-17.57	3	13.77	6	50.76	1	37.05	2	17.18	3	17.18	3
8	Vivek HYBRID 45 (C)	20.00	7	-36.95	8	1.50	5	-2.27	7	-41.45	8	-0.15	8	24.89	4	-17.28	8	-0.25	8	-0.25	8

Gain in Yield (%) over DKC 7074 (Check)

S. No.	Entry Name	NEPZ																All India	
		BHU		BAHA		BHUB		DHOL		KORA		MEDI		RANC		SABO		NEPZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	FH 3861	-4.08	5	4.38	6	-0.10	4	16.01	4	-14.90	5	46.95	3	-12.91	3	-8.32	4	-1.72	4	-1.72	4
2	FH 3879	14.56	1	22.17	2	0.68	2	35.95	1	-6.94	4	38.45	4	-18.74	5	21.56	1	10.99	1	10.99	1
3	JH 31950	-6.04	6	10.20	5	1.96	1	7.72	5	-15.50	7	30.93	5	-19.04	6	-1.19	3	-2.90	5	-2.90	5
4	JH 32056	12.16	2	21.25	3	-9.66	8	31.93	2	4.59	2	71.13	1	-9.83	2	-12.73	6	4.89	2	4.89	2
5	JH 32057	-1.30	4	15.54	4	-7.77	6	25.05	3	-15.28	6	63.14	2	-33.00	7	-8.39	5	-3.83	6	-3.83	6
6	Bio 605 (C)	-25.22	8	25.69	1	-8.38	7	3.71	6	21.31	1	-12.11	7	-33.67	8	-27.03	7	-14.66	7	-14.66	7
7	DKC 7074 (C)	0.00	3	0.00	7	0.00	3	0.00	8	0.00	3	0.00	6	0.00	1	0.00	2	0.00	3	0.00	3
8	Vivek HYBRID 45 (C)	-10.27	7	-20.75	8	-7.00	5	1.36	7	-28.97	8	-12.24	8	-17.16	4	-39.64	8	-14.88	8	-14.88	8

Gain in Yield (%) over Vivek HYBRID 45 (Check)

S. No.	Entry Name	NEPZ																All India	
		BHU		BAHA		BHUB		DHOL		KORA		MEDI		RANC		SABO		NEPZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	FH 3861	6.90	5	31.71	6	7.42	4	14.46	4	19.81	5	67.45	3	5.13	3	51.88	4	15.45	4	15.45	4
2	FH 3879	27.67	1	54.16	2	8.25	2	34.12	1	31.03	4	57.76	4	-1.91	5	101.39	1	30.39	1	30.39	1
3	JH 31950	4.70	6	39.06	5	9.63	1	6.27	5	18.97	7	49.19	5	-2.26	6	63.70	3	14.06	5	14.06	5
4	JH 32056	24.99	2	53.00	3	-2.85	8	30.16	2	47.25	2	95.00	1	8.85	2	44.58	6	23.22	2	23.22	2
5	JH 32057	9.99	4	45.79	4	-0.83	6	23.37	3	19.28	6	85.89	2	-19.12	7	51.77	5	12.98	6	12.98	6
6	Bio 605 (C)	-16.67	8	58.60	1	-1.48	7	2.32	6	70.79	1	0.15	7	-19.93	8	20.88	7	0.25	7	0.25	7
7	DKC 7074 (C)	11.44	3	26.18	7	7.53	3	-1.34	8	40.79	3	13.95	6	20.72	1	65.67	2	17.48	3	17.48	3
8	Vivek HYBRID 45 (C)	0.00	7	0.00	8	0.00	5	0.00	7	0.00	8	0.00	8	0.00	4	0.00	8	0.00	8	0.00	8

Table No. : 13 (Conti...)

Number of cobs

S. No.	Entry Name	NEPZ									All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	SABO	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH 3861	73	65	72	81	71	64	72	118	79	79
2	FH 3879	77	64	73	76	67	61	70	116	78	78
3	JH 31950	67	64	72	76	70	63	61	109	74	74
4	JH 32056	74	64	77	78	66	72	71	111	77	77
5	JH 32057	67	63	74	77	66	66	60	115	74	74
6	Bio 605 (C)	61	65	75	71	68	40	60	107	73	73
7	DKC 7074 (C)	73	66	77	76	65	54	69	120	78	78
8	Vivek HYBRID 45 (C)	72	62	73	75	65	43	61	110	74	74
	Mean	70.5	64.1	74.1	76.2	67.2	58.0	65.5	113.2	75.8	75.8
	CV (%)	5.1	2.2	4.2	4.2	9.2	20.1	14.9	2.9	6.7	6.7
	F (Prob)	0.0	0.2	0.3	0.1	0.9	0.0	0.5	0.0	0.0	0.0
	CD (5%)	6.3	2.5	5.4	5.6	10.8	20.4	17.1	5.8	3.1	3.1
	CD (1%)	8.8	3.4	7.5	7.8	15.0	28.3	23.7	8.0	4.1	4.1

Ear height (cm)

S. No.	Entry Name	NEPZ									All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	SABO	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH 3861	94	47	66	78	69	80	88	53	72	72
2	FH 3879	82	66	66	76	66	73	85	60	72	72
3	JH 31950	86	68	69	80	76	86	101	60	78	78
4	JH 32056	93	71	63	82	76	74	99	65	78	78
5	JH 32057	106	75	70	111	82	108	112	80	93	93
6	Bio 605 (C)	110	67	58	99	92	94	105	57	85	85
7	DKC 7074 (C)	106	75	62	82	83	83	99	67	82	82
8	Vivek HYBRID 45 (C)	71	47	53	72	65	66	78	53	63	63
	Mean	93.6	64.5	63.4	85.0	76.1	83.0	96.0	61.9	77.9	77.9
	CV (%)	8.8	13.5	12.6	10.7	10.5	12.7	9.3	8.6	10.9	10.9
	F (Prob)	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	14.3	15.3	14.0	16.0	14.0	18.5	15.7	9.3	4.8	4.8
	CD (1%)	19.9	21.2	19.4	22.1	19.4	25.7	21.8	12.9	6.4	6.4

Final plant stand (000/ha)

S. No.	Entry Name	NEPZ									All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	SABO	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH 3861	75	67	79	81	74	100	70	82	78	78
2	FH 3879	80	67	81	79	70	97	67	80	78	78
3	JH 31950	68	66	78	80	73	94	64	75	75	75
4	JH 32056	76	67	82	81	69	107	69	77	78	78
5	JH 32057	69	66	78	80	68	100	62	79	75	75
6	Bio 605 (C)	66	68	79	74	71	91	63	75	73	73
7	DKC 7074 (C)	74	68	82	79	67	93	65	83	77	77
8	Vivek HYBRID 45 (C)	74	65	80	78	67	88	60	76	73	73
	Mean	72.7	66.8	79.9	79.0	70.0	96.2	64.9	78.3	76.0	76.0
	CV (%)	4.1	2.2	3.3	2.8	9.2	11.5	7.9	2.5	6.8	6.8
	F (Prob)	0.0	0.2	0.4	0.0	0.9	0.5	0.3	0.0	0.0	0.0
	CD (5%)	5.2	2.6	4.6	3.9	11.3	19.3	8.9	3.4	3.0	3.0
	CD (1%)	7.2	3.6	6.4	5.4	15.6	26.8	12.4	4.7	3.9	3.9

Moisture (%)

S. No.	Entry Name	NEPZ									All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	SABO	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH 3861	25.7	23.8	18.3	22.5	27.0	13.2	28.1	28.7	23.4	23.4
2	FH 3879	26.5	23.3	18.0	23.2	25.2	13.2	30.0	27.6	23.4	23.4
3	JH 31950	24.3	23.0	18.9	21.4	26.6	12.5	28.9	24.4	22.5	22.5
4	JH 32056	25.8	23.9	18.5	21.5	27.1	12.7	29.1	28.9	23.4	23.4
5	JH 32057	27.4	24.2	18.5	20.7	26.4	12.9	28.1	28.9	23.4	23.4
6	Bio 605 (C)	26.4	23.7	17.7	22.3	26.8	13.0	29.4	30.4	23.7	23.7
7	DKC 7074 (C)	26.3	22.6	18.3	22.1	26.8	13.1	28.5	28.7	23.3	23.3
8	Vivek HYBRID 45 (C)	22.8	22.7	18.0	21.9	21.0	12.9	27.8	28.2	21.9	21.9
	Mean	25.6	23.4	18.3	21.9	25.9	13.0	28.7	28.2	22.9	22.9
	CV (%)	3.0	1.3	0.7	5.1	9.8	3.1	3.6	4.4	5.2	5.2
	F (Prob)	0.0	0.0	0.0	0.3	0.1	0.4	0.5	0.0	0.0	0.0
	CD (5%)	1.3	0.6	0.2	1.9	4.5	0.7	2.0	2.2	0.7	0.7
	CD (1%)	1.8	0.8	0.3	2.7	6.2	1.0	3.0	3.0	0.9	0.9

Table No. : 13 (Conti...)

Days to 75% Dry husk

S. No.	Entry Name	NEPZ									All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	SABO	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH 3861	87	84	84	87	102	93	84	87	89	89
2	FH 3879	89	81	84	94	102	95	84	88	90	90
3	JH 31950	88	82	85	90	104	91	84	88	89	89
4	JH 32056	89	84	86	90	104	94	85	91	90	90
5	JH 32057	89	84	85	93	104	93	85	90	90	90
6	Bio 605 (C)	92	83	85	90	103	93	85	89	90	90
7	DKC 7074 (C)	88	84	86	89	105	91	84	89	90	90
8	Vivek HYBRID 45 (C)	86	82	83	86	102	91	83	88	88	88
	Mean	88.4	83.1	84.8	90.0	103.1	92.7	84.3	88.8	89.4	89.4
	CV (%)	2.2	2.2	2.1	2.2	1.2	1.4	1.5	1.9	1.8	1.8
	F (Prob)	0.1	0.4	0.5	0.0	0.1	0.0	0.5	0.3	0.0	0.0
	CD (5%)	3.3	3.3	3.1	3.5	2.1	2.2	2.3	2.9	0.9	0.9
	CD (1%)	4.6	4.5	4.4	4.8	2.9	3.1	3.1	4.0	1.2	1.2

Days to 50% Anthesis

S. No.	Entry Name	NEPZ									All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	SABO	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH 3861	52	52	46	48	59	49	44	50	50	50
2	FH 3879	52	49	46	49	58	50	42	49	49	49
3	JH 31950	53	51	48	50	59	49	42	50	50	50
4	JH 32056	54	52	47	50	60	50	45	52	51	51
5	JH 32057	54	54	47	51	61	51	45	53	52	52
6	Bio 605 (C)	55	51	46	50	61	50	44	52	51	51
7	DKC 7074 (C)	53	53	48	50	60	49	45	51	51	51
8	Vivek HYBRID 45 (C)	50	50	45	46	57	45	41	50	48	48
	Mean	53.0	51.5	46.5	49.3	59.2	49.2	43.4	50.9	50.4	50.4
	CV (%)	1.9	2.5	3.3	3.9	2.6	2.6	2.6	1.4	2.7	2.7
	F (Prob)	0.0	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0
	CD (5%)	1.8	2.2	2.7	3.3	2.7	2.3	2.0	1.3	0.8	0.8
	CD (1%)	2.5	3.1	3.8	4.6	3.7	3.1	2.7	1.8	1.0	1.0

Days to 50% Silking

S. No.	Entry Name	NEPZ									All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	SABO	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH 3861	53	54	48	50	62	52	46	55	53	53
2	FH 3879	53	51	47	52	62	53	47	54	52	52
3	JH 31950	55	53	50	53	64	51	47	54	53	53
4	JH 32056	55	55	49	52	64	53	48	57	54	54
5	JH 32057	55	56	49	53	65	53	48	57	54	54
6	Bio 605 (C)	57	54	48	52	63	55	48	57	54	54
7	DKC 7074 (C)	54	55	50	52	64	53	47	56	54	54
8	Vivek HYBRID 45 (C)	52	52	47	48	62	49	44	55	51	51
	Mean	54.4	53.5	48.6	51.4	63.2	52.5	47.0	55.5	53.3	53.3
	CV (%)	2.2	2.5	3.0	3.8	2.4	3.6	1.8	1.1	2.7	2.7
	F (Prob)	0.0	0.0	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0
	CD (5%)	2.1	2.3	2.6	3.4	2.7	3.3	1.5	1.1	0.8	0.8
	CD (1%)	2.9	3.2	3.6	4.8	3.7	4.6	2.1	1.5	1.1	1.1

Plant height (cm)

S. No.	Entry Name	NEPZ									All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	SABO	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH 3861	168	155	161	157	178	180	184	135	165	165
2	FH 3879	178	156	159	164	173	173	190	144	167	167
3	JH 31950	173	163	163	160	184	185	199	151	172	172
4	JH 32056	173	166	155	171	174	165	195	141	167	167
5	JH 32057	189	185	162	179	199	211	210	163	187	187
6	Bio 605 (C)	196	176	145	182	200	201	208	137	181	181
7	DKC 7074 (C)	179	161	149	156	174	176	183	142	165	165
8	Vivek HYBRID 45 (C)	137	136	141	140	149	147	172	114	142	142
	Mean	174.3	162.2	154.4	163.6	178.8	179.9	192.5	140.7	168.3	168.3
	CV (%)	5.8	4.8	6.1	7.9	7.1	6.8	5.0	7.9	6.5	6.5
	F (Prob)	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	17.6	13.8	16.5	22.6	22.3	21.3	16.9	19.4	6.2	6.2
	CD (1%)	24.4	19.1	22.9	31.4	31.0	29.6	23.4	26.9	8.2	8.2

Table No. : 14 Trial No: 636 (Medium Maturity) AVT-I

Yield (Kg/ha)

S. No.	Entry Name	NEPZ														All India	
		BHU		Baha		Bhub		Dhol		Kora		Medi		Ranc		NEPZ			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	CAH 1511	8930	7	10205	3	6976	10	6014	5	4608	11	7294	3	8282	7	8598	3	8598	3
2	DKC 9194	11240	1	10548	2	7248	1	6945	1	5538	8	9636	1	9429	3	9569	1	9569	1
3	HT 18607	9802	3	6915	10	6945	11	5116	9	7201	2	8362	2	7239	10	7725	9	7725	9
4	JKMH 15303	9092	5	8159	7	7129	3	5288	7	8016	1	5761	10	9635	1	8504	4	8504	4
5	LMH3417	8086	9	8562	5	7097	6	4720	10	5586	7	7013	6	7116	11	7715	10	7715	10
6	RCRMH 7	7864	11	8978	4	7121	5	5769	6	6534	3	6436	8	9393	4	8339	6	8339	6
7	SYN816604	9910	2	7284	9	7020	8	6426	3	5371	9	6979	7	8414	6	8157	7	8157	7
8	TUFAN	9333	4	8488	6	7221	2	5256	8	6318	6	6158	9	9429	2	8618	2	8618	2
9	BIO 9544 (C)	8354	8	11159	1	6978	9	6660	2	6369	4	7263	4	7332	8	8408	5	8408	5
10	CMH 08-292 (C)	9065	6	7566	8	7125	4	6092	4	4927	10	7250	5	8754	5	8128	8	8128	8
11	DMH 121 (C)	8057	10	6694	11	7041	7	3729	11	6368	5	4892	11	7324	9	7279	11	7279	11
	Mean	9066.5	.	8596.2	.	7082.0	.	5637.8	.	6075.9	.	7003.9	.	8376.9	.	8269.9	.	8269.9	.
	CV (%)	9.6	.	13.8	.	4.3	.	21.2	.	25.1	.	20.2	.	13.0	.	10.8	.	10.8	.
	F (Prob)	0.0	.	0.0	.	1.0	.	0.1	.	0.3	.	0.1	.	0.3	.	0.0	.	0.0	.
	CD (5%)	1485.8	.	2015.3	.	516.1	.	2032.4	.	2601.1	.	2410.3	.	2053.2	.	836.2	.	836.2	.
	CD (1%)	2026.7	.	2749.0	.	704.0	.	2772.3	.	3548.1	.	3287.8	.	2987.6	.	1110.5	.	1110.5	.

Gain in Yield (%) over DMH 121 (Check)

S. No.	Entry Name	NEPZ														All India	
		BHU		BAHA		BHUB		DHOL		KORA		MEDI		RANC		NEPZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	CAH 1511	10.84	7	52.44	3	-0.92	10	61.27	5	-27.64	11	49.10	3	13.09	7	18.13	3	18.13	3
2	DKC 9194	39.50	1	57.56	2	2.94	1	86.21	1	-13.03	8	96.97	1	28.74	3	31.45	1	31.45	1
3	HT 18607	21.66	3	3.30	10	-1.36	11	37.18	9	13.09	2	70.93	2	-1.15	10	6.13	9	6.13	9
4	JKMH 15303	12.85	5	21.88	7	1.25	3	41.81	7	25.89	1	17.77	10	31.56	1	16.83	4	16.83	4
5	LMH3417	0.36	9	27.90	5	0.79	6	26.56	10	-12.27	7	43.35	6	-2.84	11	5.99	10	5.99	10
6	RCRMH 7	-2.40	11	34.12	4	1.14	5	54.70	6	2.61	3	31.57	8	28.25	4	14.56	6	14.56	6
7	SYN816604	23.00	2	8.80	9	-0.30	8	72.30	3	-15.66	9	42.65	7	14.89	6	12.06	7	12.06	7
8	TUFAN	15.84	4	26.80	6	2.56	2	40.94	8	-0.77	6	25.88	9	28.75	2	18.39	2	18.39	2
9	BIO 9544 (C)	3.68	8	66.69	1	-0.89	9	78.60	2	0.02	4	48.46	4	0.12	8	15.51	5	15.51	5
10	CMH 08-292 (C)	12.52	6	13.03	8	1.20	4	63.34	4	-22.63	10	48.20	5	19.54	5	11.66	8	11.66	8
11	DMH 121 (C)	0.00	10	0.00	11	0.00	7	0.00	11	0.00	5	0.00	11	0.00	9	0.00	11	0.00	11

Table No. : 14 (Conti...)

Gain in Yield (%) over BIO 9544 (Check)

S. No.	Entry Name	NEPZ																All India	
		BHU		BAHA		BHUB		DHOL		KORA		MEDI		RANC		NEPZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	CAH 1511	6.90	7	-8.55	3	-0.03	10	-9.70	5	-27.65	11	0.43	3	12.96	7	2.26	3	2.26	3
2	DKC 9194	34.55	1	-5.48	2	3.87	1	4.27	1	-13.05	8	32.68	1	28.59	3	13.80	1	13.80	1
3	HT 18607	17.33	3	-38.03	10	-0.47	11	-23.19	9	13.07	2	15.14	2	-1.27	10	-8.12	9	-8.12	9
4	JKMH 15303	8.84	5	-26.88	7	2.16	3	-20.60	7	25.87	1	-20.67	10	31.41	1	1.14	4	1.14	4
5	LMH3417	-3.21	9	-23.27	5	1.70	6	-29.14	10	-12.28	7	-3.44	6	-2.95	11	-8.24	10	-8.24	10
6	RCRMH 7	-5.87	11	-19.54	4	2.05	5	-13.38	6	2.59	3	-11.38	8	28.10	4	-0.82	6	-0.82	6
7	SYN816604	18.63	2	-34.73	9	0.60	8	-3.53	3	-15.67	9	-3.91	7	14.76	6	-2.99	7	-2.99	7
8	TUFAN	11.72	4	-23.93	6	3.48	2	-21.08	8	-0.79	6	-15.21	9	28.60	2	2.49	2	2.49	2
9	BIO 9544 (C)	0.00	8	0.00	1	0.00	9	0.00	2	0.00	4	0.00	4	0.00	8	0.00	5	0.00	5
10	CMH 08-292 (C)	8.52	6	-32.19	8	2.11	4	-8.54	4	-22.64	10	-0.18	5	19.40	5	-3.33	8	-3.33	8
11	DMH 121 (C)	-3.55	10	-40.01	11	0.90	7	-44.01	11	-0.02	5	-32.64	11	-0.12	9	-13.43	11	-13.43	11

Gain in Yield (%) over CMH 08-292 (Check)

S. No.	Entry Name	NEPZ																All India	
		BHU		BAHA		BHUB		DHOL		KORA		MEDI		RANC		NEPZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	CAH 1511	-1.49	7	34.87	3	-2.09	10	-1.27	5	-6.48	11	0.61	3	-5.39	7	5.79	3	5.79	3
2	DKC 9194	23.99	1	39.40	2	1.73	1	14.00	1	12.40	8	32.91	1	7.70	3	17.73	1	17.73	1
3	HT 18607	8.12	3	-8.61	10	-2.53	11	-16.01	9	46.17	2	15.34	2	-17.31	10	-4.95	9	-4.95	9
4	JKMH 15303	0.30	5	7.83	7	0.06	3	-13.18	7	62.71	1	-20.53	10	10.06	1	4.63	4	4.63	4
5	LMH3417	-10.80	9	13.16	5	-0.40	6	-22.52	10	13.39	7	-3.27	6	-18.72	11	-5.08	10	-5.08	10
6	RCRMH 7	-13.26	11	18.66	4	-0.06	5	-5.29	6	32.62	3	-11.22	8	7.29	4	2.60	6	2.60	6
7	SYN816604	9.32	2	-3.74	9	-1.48	8	5.48	3	9.01	9	-3.74	7	-3.88	6	0.36	7	0.36	7
8	TUFAN	2.95	4	12.18	6	1.35	2	-13.72	8	28.25	6	-15.06	9	7.71	2	6.03	2	6.03	2
9	BIO 9544 (C)	-7.85	8	47.47	1	-2.06	9	9.34	2	29.27	4	0.18	4	-16.25	8	3.45	5	3.45	5
10	CMH 08-292 (C)	0.00	6	0.00	8	0.00	4	0.00	4	0.00	10	0.00	5	0.00	5	0.00	8	0.00	8
11	DMH 121 (C)	-11.12	10	-11.53	11	-1.18	7	-38.78	11	29.25	5	-32.52	11	-16.34	9	-10.44	11	-10.44	11

Table No. : 14 (Conti...)

Number of cobs

S. No.	Entry Name	NEPZ								All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH 1511	75	64	79	73	72	65	73	71	71
2	DKC 9194	76	68	77	87	76	75	81	77	77
3	HT 18607	74	67	75	57	74	67	71	69	69
4	JKMH 15303	77	67	77	85	73	61	80	74	74
5	LMH3417	76	65	76	68	76	64	69	71	71
6	RCRMH 7	71	66	75	77	75	61	78	72	72
7	SYN816604	75	65	76	84	75	69	74	74	74
8	TUFAN	74	67	76	88	75	66	82	76	76
9	BIO 9544 (C)	77	65	77	79	78	72	71	74	74
10	CMH 08-292 (C)	77	67	75	70	73	65	73	71	71
11	DMH 121 (C)	71	67	77	68	74	53	68	68	68
	Mean	74.9	66.2	76.2	76.0	74.6	65.3	74.4	72.5	72.5
	CV (%)	3.9	2.9	2.8	12.0	3.7	8.3	7.5	6.8	6.8
	F (Prob)	0.3	0.3	0.7	0.0	0.4	0.0	0.1	0.0	0.0
	CD (5%)	5.0	3.3	3.7	15.6	4.8	9.2	9.6	3.1	3.1
	CD (1%)	6.8	4.5	5.0	21.3	6.5	12.5	13.2	4.0	4.0

Ear height (cm)

S. No.	Entry Name	NEPZ								All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH 1511	124	83	90	121	72	103	104	100	100
2	DKC 9194	119	79	92	121	75	110	105	100	100
3	HT 18607	118	83	84	115	88	93	94	96	96
4	JKMH 15303	114	78	80	98	85	96	103	93	93
5	LMH3417	116	80	86	113	89	100	111	99	99
6	RCRMH 7	118	88	90	120	75	101	111	101	101
7	SYN816604	108	70	84	105	76	92	98	90	90
8	TUFAN	102	68	84	98	89	87	105	90	90
9	BIO 9544 (C)	112	86	78	107	87	104	102	97	97
10	CMH 08-292 (C)	150	87	104	133	100	130	114	117	117
11	DMH 121 (C)	105	71	81	99	80	97	108	92	92
	Mean	117.0	79.4	86.5	111.8	83.3	101.3	105.3	97.7	97.7
	CV (%)	8.0	8.5	9.5	9.0	11.4	7.3	5.9	8.5	8.5
	F (Prob)	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	15.9	11.4	14.1	17.2	16.1	12.5	10.7	5.2	5.2
	CD (1%)	21.7	15.6	19.2	23.4	22.0	17.1	14.7	6.9	6.9

Final Plant Stand (000/ha)

S. No.	Entry Name	NEPZ							All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH 1511	78	67	82	80	75	102	81	81
2	DKC 9194	81	63	82	87	79	108	83	83
3	HT 18607	77	68	80	59	77	103	77	77
4	JKMH 15303	80	67	80	86	76	106	83	83
5	LMH3417	75	68	81	71	80	101	79	79
6	RCRMH 7	76	68	81	78	78	101	80	80
7	SYN816604	80	68	81	87	78	101	82	82
8	TUFAN	79	67	81	89	78	103	83	83
9	BIO 9544 (C)	79	68	85	82	81	105	83	83
10	CMH 08-292 (C)	80	69	79	73	76	103	80	80
11	DMH 121 (C)	73	68	81	74	77	91	77	77
	Mean	78.0	67.2	81.2	78.8	77.7	102.3	80.9	80.9
	CV (%)	2.4	3.9	3.4	10.8	3.7	3.8	5.4	5.4
	F (Prob)	0.0	0.3	0.6	0.0	0.4	0.0	0.0	0.0
	CD (5%)	3.2	4.5	4.7	14.5	4.9	6.7	2.9	2.9
	CD (1%)	4.4	6.1	6.5	19.8	6.7	9.1	3.8	3.8

Moisture (%)

S. No.	Entry Name	NEPZ								All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH 1511	24.9	25.1	18.7	27.6	26.8	13.1	30.4	23.8	23.8
2	DKC 9194	27.5	25.1	18.8	31.7	29.4	12.8	30.4	25.0	25.0
3	HT 18607	27.4	25.5	19.1	29.5	28.7	13.2	30.6	24.8	24.8
4	JKMH 15303	27.5	26.2	18.8	34.4	30.0	12.7	30.2	25.7	25.7
5	LMH3417	24.3	23.4	18.5	27.5	25.5	13.0	28.6	23.0	23.0
6	RCRMH 7	27.1	23.4	19.0	29.9	27.7	12.7	29.9	24.2	24.2
7	SYN816604	29.0	23.9	18.9	30.5	29.0	13.1	30.9	25.0	25.0
8	TUFAN	26.3	26.2	19.1	30.3	28.3	12.8	31.2	24.9	24.9
9	BIO 9544 (C)	26.7	25.1	19.3	31.9	28.6	12.9	31.3	25.1	25.1
10	CMH 08-292 (C)	27.7	24.3	18.8	29.9	29.2	12.8	30.0	24.7	24.7
11	DMH 121 (C)	27.5	24.3	19.0	31.6	28.6	12.9	30.3	24.9	24.9
	Mean	26.9	24.8	18.9	30.4	28.4	12.9	30.2	24.3	24.3
	CV (%)	2.6	3.3	1.4	2.7	2.2	3.9	5.3	3.1	3.1
	F (Prob)	0.0	0.0	0.1	0.0	0.0	1.0	0.9	0.0	0.0
	CD (5%)	1.2	1.4	0.4	1.4	1.1	0.9	3.0	0.5	0.5
	CD (1%)	1.7	1.9	0.6	1.9	1.5	1.2	4.4	0.7	0.7

Table No. : 14 (Conti...)

Days to 75% Dry husk

S. No.	Entry Name	NEPZ								All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH 1511	94	91	86	88	106	99	85	93	93
2	DKC 9194	95	93	86	95	109	99	87	95	95
3	HT 18607	93	92	88	92	109	99	87	94	94
4	JKMH 15303	96	93	89	93	107	99	88	95	95
5	LMH3417	91	88	87	84	109	96	85	92	92
6	RCRMH 7	93	89	87	89	109	99	85	93	93
7	SYN816604	96	93	89	94	110	98	87	95	95
8	TUFAN	93	90	89	89	108	99	86	93	93
9	BIO 9544 (C)	96	93	89	92	107	99	88	95	95
10	CMH 08-292 (C)	93	90	86	88	107	98	86	93	93
11	DMH 121 (C)	94	92	87	91	111	99	87	94	94
	Mean	94.0	91.1	87.6	90.2	108.5	98.4	86.2	93.8	93.8
	CV (%)	2.1	1.8	1.5	1.7	1.9	2.9	1.8	2.0	2.0
	F (Prob)	0.1	0.0	0.1	0.0	0.2	1.0	0.3	0.0	0.0
	CD (5%)	3.4	2.7	2.3	2.6	3.4	4.8	2.6	1.2	1.2
	CD (1%)	4.6	3.7	3.1	3.5	4.7	6.5	3.6	1.6	1.6

Days to 50% Anthesis

S. No.	Entry Name	NEPZ								All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH 1511	60	58	48	52	62	51	46	54	54
2	DKC 9194	58	59	49	53	65	50	47	54	54
3	HT 18607	59	60	50	52	65	52	47	55	55
4	JKMH 15303	61	61	50	54	64	58	47	56	56
5	LMH3417	55	55	50	49	65	51	46	53	53
6	RCRMH 7	59	57	48	53	65	51	46	54	54
7	SYN816604	59	59	49	55	66	52	46	55	55
8	TUFAN	54	57	50	51	64	53	46	54	54
9	BIO 9544 (C)	61	60	49	53	63	53	47	55	55
10	CMH 08-292 (C)	59	58	48	52	63	52	46	54	54
11	DMH 121 (C)	57	59	50	52	67	54	46	55	55
	Mean	58.4	58.6	49.3	52.2	64.5	52.4	46.3	54.6	54.6
	CV (%)	2.5	2.8	1.8	2.5	3.2	3.3	2.1	2.7	2.7
	F (Prob)	0.0	0.0	0.0	0.0	0.3	0.0	0.7	0.0	0.0
	CD (5%)	2.5	2.8	1.6	2.2	3.5	2.9	1.7	0.9	0.9
	CD (1%)	3.4	3.8	2.1	3.0	4.8	4.0	2.3	1.2	1.2

Days to 50% Silking

S. No.	Entry Name	NEPZ								All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH 1511	63	60	50	54	66	56	50	57	57
2	DKC 9194	59	61	51	55	69	56	51	58	58
3	HT 18607	60	62	53	54	69	57	51	58	58
4	JKMH 15303	63	63	52	57	67	62	51	59	59
5	LMH3417	58	58	52	50	69	57	49	56	56
6	RCRMH 7	61	59	50	55	69	56	50	57	57
7	SYN816604	62	62	51	57	70	58	50	58	58
8	TUFAN	56	59	51	52	68	58	50	56	56
9	BIO 9544 (C)	63	62	51	54	67	58	51	58	58
10	CMH 08-292 (C)	63	61	50	55	67	58	50	58	58
11	DMH 121 (C)	60	61	51	55	71	60	50	58	58
	Mean	60.8	60.7	51.2	54.3	68.5	57.9	50.2	57.7	57.7
	CV (%)	3.3	2.5	1.7	2.7	3.0	3.4	2.2	2.8	2.8
	F (Prob)	0.0	0.0	0.0	0.0	0.2	0.0	0.3	0.0	0.0
	CD (5%)	3.4	2.6	1.5	2.5	3.4	3.4	1.9	1.0	1.0
	CD (1%)	4.7	3.6	2.0	3.4	4.7	4.6	2.6	1.3	1.3

Plant height (cm)

S. No.	Entry Name	NEPZ								All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH 1511	230	175	186	223	188	234	209	207	207
2	DKC 9194	212	185	180	218	190	233	205	203	203
3	HT 18607	195	160	161	201	188	191	176	182	182
4	JKMH 15303	213	187	167	206	201	226	209	201	201
5	LMH3417	204	190	178	220	206	222	223	206	206
6	RCRMH 7	220	191	192	223	187	229	221	209	209
7	SYN816604	203	163	180	207	177	204	198	190	190
8	TUFAN	183	162	176	186	189	197	197	184	184
9	BIO 9544 (C)	189	171	169	194	171	200	188	183	183
10	CMH 08-292 (C)	246	183	201	225	218	247	217	220	220
11	DMH 121 (C)	183	173	184	198	190	217	204	193	193
	Mean	207.0	176.4	179.4	209.2	191.4	218.3	205.0	198.0	198.0
	CV (%)	3.8	4.6	6.4	4.9	7.2	3.1	5.9	5.2	5.2
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	13.5	13.8	19.7	17.4	23.4	11.7	20.6	6.4	6.4
	CD (1%)	18.3	18.8	26.8	23.7	31.9	15.9	28.2	8.5	8.5

Table No. : 14 (Conti...)

S. No.	Entry Name	Plant stand									Shelling (%)								
		NEPZ								All India	NEPZ								All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	NEPZ		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	NEPZ	
		Mean	Mean		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH 1511	77	64	Data	88	80	78	101	81	81	80	76	81	68	81	72	82	77	77
2	DKC 9194	80	63	not	94	80	79	95	82	82	82	83	85	79	75	76	87	81	81
3	HT 18607	76	63	given	90	80	79	94	80	80	78	77	82	74	76	76	85	78	78
4	JKMH 15303	79	66		95	80	79	94	82	82	79	77	81	77	79	70	86	78	78
5	LMH3417	74	65		81	80	77	85	77	77	82	77	82	77	79	75	87	80	80
6	RCRMH 7	79	65		89	80	79	93	81	81	77	77	80	76	79	70	86	78	78
7	SYN816604	78	66		89	80	75	84	79	79	78	76	81	71	71	71	86	76	76
8	TUFAN	77	64		97	80	77	96	82	82	75	78	82	72	77	73	84	77	77
9	BIO 9544 (C)	78	64		88	80	79	88	79	79	77	80	81	73	79	73	83	78	78
10	CMH 08-292 (C)	79	67		85	80	78	89	80	80	77	76	80	71	75	71	86	77	77
11	DMH 121 (C)	73	65		84	80	70	86	76	76	72	76	80	70	74	66	84	74	74
	Mean	77.3	64.9		88.9	80.0	77.2	91.3	79.8	79.8	77.7	77.6	81.5	73.1	76.6	72.0	85.1	77.2	77.2
	CV (%)	2.1	3.3		5.9	0.0	2.6	11.5	6.1	6.1	1.2	3.1	0.3	2.8	4.3	5.2	2.9	3.2	3.2
	F (Prob)	0.0	0.4		0.0	.	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	0.0	0.0
	CD (5%)	2.8	3.7		8.9	0.0	3.4	18.1	3.3	3.3	1.6	4.1	0.4	3.5	5.6	6.4	4.7	1.6	1.6
	CD (1%)	3.8	5.0		12.2	0.0	4.7	24.8	4.3	4.3	2.2	5.6	0.6	4.7	7.7	8.8	6.9	2.2	2.2

Table No. : 15 Trial No: 635 (AVT-II-Medium Maturity, NEPZ)

Yield (Kg/ha)

S. No.	Entry Name	NEPZ																All India	
		BHU		BAHA		BHUB		DHOL		KORA		MEDI		RANC		SABO		NEPZ			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	CP 858	9999	1	6685	5	7441	3	11834	1	5395	4	8153	3	10709	2	6350	3	8836	1	8836	1
2	JH 16041	9093	2	7369	2	6463	6	9594	3	4977	5	8560	1	7712	7	5890	4	7687	5	7687	5
3	Rasi 3499	8994	5	5694	7	7787	1	9912	2	4645	7	6112	7	10799	1	6872	2	8343	2	8343	2
4	BIO 9682 (C)	8608	6	6279	6	6932	5	8424	7	5533	3	7282	5	9869	3	4858	7	7495	7	7495	7
5	CMH 08-282 (C)	8143	7	6790	4	7060	4	9148	4	5619	2	7049	6	8645	5	5613	5	7566	6	7566	6
6	CMH 08-287 (C)	9040	3	8248	1	6230	7	9042	5	4895	6	8337	2	8339	6	6883	1	7964	3	7964	3
7	NK 6240 (C)	9023	4	6863	3	7610	2	8800	6	6079	1	7331	4	9466	4	5578	6	7890	4	7890	4
	Mean	8985.9	.	6846.9	.	7074.7	.	9536.1	.	5306.3	.	7546.4	.	9362.7	.	6006.3	.	7886.8	.	7886.8	.
	CV (%)	6.0	.	11.1	.	10.8	.	6.2	.	24.7	.	22.2	.	8.1	.	10.1	.	8.3	.	8.3	.
	F (Prob)	0.0	.	0.0	.	0.2	.	0.0	.	0.9	.	0.6	.	0.0	.	0.0	.	0.0	.	0.0	.
	CD (5%)	965.7	.	1348.2	.	1364.3	.	1056.0	.	2335.8	.	2976.3	.	1513.3	.	1075.0	.	453.1	.	453.1	.
	CD (1%)	1353.9	.	1890.1	.	1912.6	.	1480.4	.	3274.7	.	4172.5	.	2292.9	.	1507.1	.	602.0	.	602.0	.

Gain in Yield (%) over NK 6240 (Check)

S. No.	Entry Name	NEPZ																All India	
		BHU		BAHA		BHUB		DHOL		KORA		MEDI		RANC		SABO		NEPZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	CP 858	10.82	1	-2.60	5	-2.23	3	34.48	1	-11.25	4	11.21	3	13.13	2	13.84	3	11.99	1	11.99	1
2	JH 16041	0.78	2	7.37	2	-15.08	6	9.03	3	-18.13	5	16.76	1	-18.53	7	5.60	4	-2.57	5	-2.57	5
3	Rasi 3499	-0.32	5	-17.04	7	2.32	1	12.64	2	-23.58	7	-16.63	7	14.08	1	23.21	2	5.74	2	5.74	2
4	BIO 9682 (C)	-4.60	6	-8.51	6	-8.91	5	-4.27	7	-8.99	3	-0.67	5	4.25	3	-12.90	7	-5.01	7	-5.01	7
5	CMH 08-282 (C)	-9.76	7	-1.07	4	-7.23	4	3.96	4	-7.57	2	-3.85	6	-8.68	5	0.64	5	-4.10	6	-4.10	6
6	CMH 08-287 (C)	0.19	3	20.18	1	-18.14	7	2.75	5	-19.47	6	13.73	2	-11.90	6	23.41	1	0.94	3	0.94	3
7	NK 6240 (C)	0.00	4	0.00	3	0.00	2	0.00	6	0.00	1	0.00	4	0.00	4	0.00	6	0.00	4	0.00	4

Table No. : 15 (Conti...)

Gain in Yield (%) over BIO 9682 (Check)

S. No.	Entry Name	NEPZ																All India	
		BHU		BAHA		BHUB		DHOL		KORA		MEDI		RANC		SABO		NEPZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	CP 858	16.16	1	6.46	5	7.34	3	40.49	1	-2.48	4	11.96	3	8.51	2	30.71	3	17.90	1	17.90	1
2	JH 16041	5.64	2	17.35	2	-6.77	6	13.90	3	-10.04	5	17.54	1	-21.85	7	21.24	4	2.56	5	2.56	5
3	Rasi 3499	4.49	5	-9.32	7	12.33	1	17.67	2	-16.04	7	-16.06	7	9.43	1	41.46	2	11.32	2	11.32	2
4	BIO 9682 (C)	0.00	6	0.00	6	0.00	5	0.00	7	0.00	3	0.00	5	0.00	3	0.00	7	0.00	7	0.00	7
5	CMH 08-282 (C)	-5.40	7	8.13	4	1.85	4	8.60	4	1.56	2	-3.20	6	-12.40	5	15.54	5	0.95	6	0.95	6
6	CMH 08-287 (C)	5.03	3	31.36	1	-10.13	7	7.34	5	-11.52	6	14.49	2	-15.50	6	41.69	1	6.26	3	6.26	3
7	NK 6240 (C)	4.83	4	9.30	3	9.78	2	4.47	6	9.88	1	0.68	4	-4.08	4	14.81	6	5.27	4	5.27	4

Gain in Yield (%) over CMH 08-282 (Check)

S. No.	Entry Name	NEPZ																All India	
		BHU		BAHA		BHUB		DHOL		KORA		MEDI		RANC		SABO		NEPZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	CP 858	22.80	1	-1.54	5	5.39	3	29.36	1	-3.99	4	15.66	3	23.88	2	13.13	3	16.78	1	16.78	1
2	JH 16041	11.67	2	8.53	2	-8.46	6	4.88	3	-11.43	5	21.43	1	-10.79	7	4.93	4	1.59	5	1.59	5
3	Rasi 3499	10.46	5	-16.14	7	10.30	1	8.35	2	-17.33	7	-13.29	7	24.92	1	22.43	2	10.26	2	10.26	2
4	BIO 9682 (C)	5.71	6	-7.52	6	-1.81	5	-7.92	7	-1.54	3	3.30	5	14.16	3	-13.45	7	-0.94	7	-0.94	7
5	CMH 08-282 (C)	0.00	7	0.00	4	0.00	4	0.00	4	0.00	2	0.00	6	0.00	5	0.00	5	0.00	6	0.00	6
6	CMH 08-287 (C)	11.02	3	21.49	1	-11.76	7	-1.16	5	-12.88	6	18.27	2	-3.53	6	22.63	1	5.25	3	5.25	3
7	NK 6240 (C)	10.81	4	1.08	3	7.79	2	-3.81	6	8.19	1	4.00	4	9.50	4	-0.63	6	4.28	4	4.28	4

Gain in Yield (%) over CMH 08-287 (Check)

S. No.	Entry Name	NEPZ																All India	
		BHU		BAHA		BHUB		DHOL		KORA		MEDI		RANC		SABO		NEPZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	CP 858	10.60	1	-18.96	5	19.43	3	30.88	1	10.21	4	-2.21	3	28.41	2	-7.75	3	10.95	1	10.95	1
2	JH 16041	0.58	2	-10.66	2	3.74	6	6.12	3	1.67	5	2.66	1	-7.52	7	-14.43	4	-3.48	5	-3.48	5
3	Rasi 3499	-0.51	5	-30.97	7	24.99	1	9.62	2	-5.10	7	-26.69	7	29.49	1	-0.16	2	4.76	2	4.76	2
4	BIO 9682 (C)	-4.79	6	-23.87	6	11.27	5	-6.83	7	13.02	3	-12.66	5	18.34	3	-29.42	7	-5.89	7	-5.89	7
5	CMH 08-282 (C)	-9.93	7	-17.69	4	13.32	4	1.18	4	14.79	2	-15.45	6	3.66	5	-18.45	5	-4.99	6	-4.99	6
6	CMH 08-287 (C)	0.00	3	0.00	1	0.00	7	0.00	5	0.00	6	0.00	2	0.00	6	0.00	1	0.00	3	0.00	3
7	NK 6240 (C)	-0.19	4	-16.79	3	22.16	2	-2.67	6	24.18	1	-12.07	4	13.51	4	-18.97	6	-0.93	4	-0.93	4

Table No. : 15 (Conti...)

Number of cobs

S. No.	Entry Name	NEPZ									All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	SABO	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CP 858	111	106	111	119	101	71	93	117	104	104
2	JH 16041	104	103	97	118	99	73	87	119	100	100
3	Rasi 3499	112	107	115	118	100	61	104	114	104	104
4	BIO 9682 (C)	117	107	111	118	100	70	106	119	106	106
5	CMH 08-282 (C)	109	109	109	119	98	71	91	119	103	103
6	CMH 08-287 (C)	97	103	102	116	99	65	83	119	98	98
7	NK 6240 (C)	108	104	116	116	97	67	89	119	102	102
	Mean	108.4	105.3	108.7	117.9	99.1	68.2	93.4	118.2	102.4	102.4
	CV (%)	4.7	1.6	9.5	1.1	2.9	11.5	10.0	3.0	5.9	5.9
	F (Prob)	0.0	0.0	0.3	0.1	0.8	0.6	0.1	0.5	0.0	0.0
	CD (5%)	9.0	2.9	18.4	2.3	5.2	13.9	16.7	6.3	3.4	3.4
	CD (1%)	12.6	4.1	25.8	3.3	7.2	19.5	23.3	8.8	4.6	4.6

Ear height (cm)

S. No.	Entry Name	NEPZ									All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	SABO	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CP 858	108	89	92	97	83	111	102	89	96	96
2	JH 16041	122	93	95	106	84	116	115	95	103	103
3	Rasi 3499	102	77	86	88	84	97	93	70	87	87
4	BIO 9682 (C)	121	104	87	93	88	107	112	77	99	99
5	CMH 08-282 (C)	131	101	99	104	85	117	113	97	106	106
6	CMH 08-287 (C)	127	104	103	113	72	119	121	90	106	106
7	NK 6240 (C)	101	87	96	88	84	101	104	80	93	93
	Mean	116.1	93.5	93.9	98.4	82.9	109.7	108.7	85.4	98.6	98.6
	CV (%)	7.2	9.3	8.6	11.5	11.8	4.6	4.8	8.9	8.4	8.4
	F (Prob)	0.0	0.0	0.2	0.1	0.6	0.0	0.0	0.0	0.0	0.0
	CD (5%)	14.9	15.5	14.3	20.1	17.4	9.0	9.2	13.5	4.7	4.7
	CD (1%)	20.9	21.7	20.1	28.2	24.4	12.6	12.9	19.0	6.3	6.3

Final Plant Stand (000/ha)

s. No.	Entry Name	NEPZ								All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	SABO	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CP 858	77	73	81	83	70	106	81	81	81
2	JH 16041	71	73	70	81	69	102	82	78	78
3	Rasi 3499	77	74	81	82	69	94	79	79	79
4	BIO 9682 (C)	78	73	79	82	70	106	83	82	82
5	CMH 08-282 (C)	75	74	78	82	68	104	82	80	80
6	CMH 08-287 (C)	68	71	74	81	69	94	83	77	77
7	NK 6240 (C)	74	72	80	81	67	101	82	80	80
	Mean	74.4	72.9	77.7	81.6	68.9	101.0	81.6	79.7	79.7
	CV (%)	4.4	1.7	10.0	1.7	2.9	5.6	2.7	4.9	4.9
	F (Prob)	0.0	0.2	0.5	0.4	0.8	0.1	0.3	0.0	0.0
	CD (5%)	5.9	2.2	13.8	2.5	3.6	10.0	3.9	2.4	2.4
	CD (1%)	8.2	3.1	19.3	3.5	5.0	14.1	5.5	3.2	3.2

Moisture (%)

s. No.	Entry Name	NEPZ								All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	SABO	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CP 858	28.3	26.1	19.8	29.2	29.5	13.4	28.4	30.1	25.6	25.6
2	JH 16041	26.2	27.9	19.4	27.0	29.6	12.8	25.9	30.0	24.8	24.8
3	Rasi 3499	27.9	24.8	19.9	27.6	28.1	12.7	28.8	29.8	24.9	24.9
4	BIO 9682 (C)	26.6	25.3	19.7	26.9	27.1	13.1	28.5	28.1	24.4	24.4
5	CMH 08-282 (C)	25.7	26.4	19.7	26.8	29.4	13.1	27.3	28.7	24.6	24.6
6	CMH 08-287 (C)	28.0	28.2	20.0	29.0	29.4	12.7	28.2	30.7	25.8	25.8
7	NK 6240 (C)	25.8	25.9	19.6	23.9	28.9	12.7	27.4	28.5	24.1	24.1
	Mean	26.9	26.3	19.7	27.2	28.8	12.9	27.7	29.4	24.8	24.8
	CV (%)	1.9	1.8	1.4	4.5	5.1	3.1	7.3	4.2	4.2	4.2
	F (Prob)	0.0	0.0	0.3	0.0	0.4	0.2	0.8	0.2	0.0	0.0
	CD (5%)	0.9	0.8	0.5	2.2	2.6	0.7	4.0	2.2	0.6	0.6
	CD (1%)	1.3	1.2	0.7	3.1	3.7	1.0	6.1	3.1	0.8	0.8

Table No. : 15 (Conti...)

Days to 75% Dry husk

S. No.	Entry Name	NEPZ									All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	SABO	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CP 858	93	96	95	97	114	98	88	90	96	96
2	JH 16041	88	93	94	92	113	95	85	88	94	94
3	Rasi 3499	93	97	95	96	112	96	87	93	96	96
4	BIO 9682 (C)	93	98	94	99	111	97	88	89	96	96
5	CMH 08-282 (C)	87	93	95	93	111	95	85	88	93	93
6	CMH 08-287 (C)	91	97	94	97	113	96	86	89	95	95
7	NK 6240 (C)	91	94	94	94	110	97	85	92	95	95
	Mean	91.1	95.4	94.6	95.3	112.0	96.3	86.3	89.9	95.1	95.1
	CV (%)	1.3	1.6	1.4	2.7	1.1	0.7	0.6	1.8	1.5	1.5
	F (Prob)	0.0	0.0	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	2.1	2.7	2.4	4.5	2.2	1.3	0.9	2.8	0.8	0.8
	CD (1%)	2.9	3.8	3.4	6.4	3.0	1.8	1.3	4.0	1.1	1.1

Days to 50% Anthesis

S. No.	Entry Name	NEPZ									All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	SABO	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CP 858	56	61	55	54	68	53	47	55	56	56
2	JH 16041	56	56	55	53	67	52	46	54	55	55
3	Rasi 3499	56	60	54	56	66	56	47	55	56	56
4	BIO 9682 (C)	58	60	56	54	66	52	46	55	56	56
5	CMH 08-282 (C)	55	56	54	54	66	50	45	52	54	54
6	CMH 08-287 (C)	58	59	54	55	66	55	47	53	56	56
7	NK 6240 (C)	55	56	53	54	64	52	45	53	54	54
	Mean	56.4	58.4	54.5	54.4	66.2	52.8	46.2	53.9	55.4	55.4
	CV (%)	2.0	4.0	2.0	2.5	2.2	3.7	1.6	1.6	2.6	2.6
	F (Prob)	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0
	CD (5%)	2.0	4.2	1.9	2.4	2.6	3.5	1.3	1.5	0.8	0.8
	CD (1%)	2.8	5.9	2.7	3.4	3.6	4.8	1.8	2.1	1.1	1.1

Days to 50% Silking

S. No.	Entry Name	NEPZ									All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	SABO	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CP 858	57	60	57	56	71	58	50	59	58	58
2	JH 16041	57	58	56	55	70	56	50	58	58	58
3	Rasi 3499	58	63	56	58	69	60	50	60	59	59
4	BIO 9682 (C)	60	62	57	57	68	57	50	59	59	59
5	CMH 08-282 (C)	57	58	56	56	68	54	47	56	56	56
6	CMH 08-287 (C)	59	62	56	58	70	59	50	58	59	59
7	NK 6240 (C)	57	59	55	56	67	56	47	57	57	57
	Mean	58.0	60.2	56.2	56.5	69.0	57.1	49.1	58.1	58.0	58.0
	CV (%)	2.3	3.1	1.5	2.4	1.8	3.6	0.8	1.6	2.3	2.3
	F (Prob)	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0
	CD (5%)	2.3	3.3	1.5	2.4	2.2	3.7	0.7	1.7	0.8	0.8
	CD (1%)	3.3	4.6	2.2	3.4	3.0	5.1	0.9	2.3	1.0	1.0

Plant height (cm)

S. No.	Entry Name	NEPZ									All India
		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	SABO	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CP 858	209	186	196	213	186	227	224	189	204	204
2	JH 16041	211	187	193	210	196	217	223	195	204	204
3	Rasi 3499	190	194	188	185	190	201	189	174	189	189
4	BIO 9682 (C)	201	200	190	179	195	198	202	154	190	190
5	CMH 08-282 (C)	212	201	197	205	192	224	225	195	206	206
6	CMH 08-287 (C)	216	217	206	213	182	233	231	187	211	211
7	NK 6240 (C)	176	181	186	182	187	195	199	164	184	184
	Mean	202.1	195.0	193.8	198.2	189.7	213.5	213.1	179.8	198.2	198.2
	CV (%)	4.3	2.8	6.2	7.7	6.5	4.2	5.0	7.8	5.7	5.7
	F (Prob)	0.0	0.0	0.5	0.1	0.8	0.0	0.0	0.0	0.0	0.0
	CD (5%)	15.5	9.8	21.5	27.2	21.9	16.1	18.9	25.0	6.5	6.5
	CD (1%)	21.8	13.8	30.1	38.1	30.6	22.5	26.5	35.0	8.6	8.6

Table No. : 15

s. No.	Entry Name	Plant stand									Shelling (%)									
		NEPZ								All India	NEPZ									All India
		BHU	BAHA	DHOL	KORA	MEDI	RANC	SABO	NEPZ		BHU	BAHA	BHUB	DHOL	KORA	MEDI	RANC	SABO	NEPZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CP 858	115	107	120	105	80	130	118	111	111	80	78	82	85	75	74	86	87	81	81
2	JH 16041	111	104	120	104	77	126	120	109	109	83	79	81	82	79	76	86	84	81	81
3	Rasi 3499	117	107	123	104	77	131	116	111	111	78	73	83	81	76	69	87	86	79	79
4	BIO 9682 (C)	114	106	124	105	78	131	120	111	111	75	76	82	75	75	71	84	83	78	78
5	CMH 08-282 (C)	114	106	120	104	79	130	120	110	110	75	77	83	78	78	70	86	80	78	78
6	CMH 08-287 (C)	100	104	123	104	69	105	120	104	104	76	81	80	79	77	75	84	82	79	79
7	NK 6240 (C)	111	104	119	104	79	127	119	109	109	74	79	83	79	77	77	85	85	80	80
	Mean	111.7	105.4	121.3	104.4	77.1	125.7	119.0	109.2	109.2	77.3	77.5	82.0	79.7	76.7	73.2	85.5	83.9	79.2	79.2
	CV (%)	3.9	1.3	2.7	1.1	3.4	7.7	2.1	4.1	4.1	1.9	1.5	0.9	2.2	6.3	8.1	1.5	0.0	3.8	3.8
	F (Prob)	0.0	0.0	0.3	0.5	0.0	0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.6	0.4	0.0	0.0	0.0
	CD (5%)	7.8	2.5	5.7	2.0	4.7	17.3	4.4	2.7	2.7	2.7	2.0	1.3	3.1	8.6	10.6	2.6	0.0	1.8	1.8
	CD (1%)	11.0	3.5	8.1	2.8	6.5	24.2	6.1	3.6	3.6	3.7	2.9	1.8	4.3	12.0	14.8	4.0	0.0	2.3	2.3

Table No. : 16 **Trial No. 647 (AVT-I-Early Maturity) PZ**

Yield (Kg/ha)

S. No.	Entry Name	PZ															
		BULD		COIM		DHAR		DHUL		HYDE		KARI		KOLH		MAND	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	FH3879	6390	1	10292	3	8083	2	9393	4	9483	1	7733	3	6077	4	8943	2
2	Bio 605 (C)	5890	7	9602	5	6217	7	7725	7	6309	6	7325	6	6850	3	8830	3
3	DKC 7074 (C)	6258	4	10596	2	7967	3	11764	2	8314	4	7440	4	5998	6	9094	1
4	Vivek HYBRID 45 (C)	6019	5	8414	7	6515	6	8181	6	6495	5	6841	7	7174	2	7630	6
5	Vivek HYBRID 51 (C)	5989	6	8984	6	7718	4	9078	5	5729	7	7839	2	6073	5	7920	5
6	Bio 9544 (F)	6365	2	11940	1	8332	1	13322	1	8616	3	7340	5	7639	1	8489	4
7	DHM 121 (F)	6268	3	10225	4	6664	5	9697	3	8899	2	8465	1	5981	7	7365	7
	Mean	6168.5	.	10007.5	.	7356.7	.	9880.0	.	7692.2	.	7569.0	.	6541.8	.	8324.3	.
	CV (%)	10.9	.	10.6	.	16.6	.	15.7	.	16.7	.	11.2	.	17.2	.	15.9	.
	F (Prob)	0.9	.	0.0	.	0.3	.	0.0	.	0.0	.	0.4	.	0.4	.	0.6	.
	CD (5%)	1200.9	.	1881.5	.	2174.6	.	2760.1	.	2278.1	.	1507.9	.	1997.0	.	2359.4	.
	CD (1%)	1683.6	.	2637.7	.	3048.7	.	3869.5	.	3193.7	.	2113.9	.	2799.6	.	3307.7	.

Yield (Kg/ha)

S. No.	Entry Name	PZ														All India	
		NIPH		PARB		PEDD		RAHU		VRDC		VAGA		PZ			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	FH3879	9204	4	13334	1	8401	3	11083	4	2727	3	9701	2	9086	3	9086	3
2	Bio 605 (C)	8935	5	13290	2	6338	7	9742	6	1751	6	8621	4	8129	6	8129	6
3	DKC 7074 (C)	12192	2	11204	7	9133	2	12254	1	2627	4	7895	7	9239	2	9239	2
4	Vivek HYBRID 45 (C)	8786	6	12160	6	7458	5	9619	7	1451	7	8766	3	8004	7	8004	7
5	Vivek HYBRID 51 (C)	10799	3	12184	5	6957	6	10737	5	2218	5	8467	5	8344	5	8344	5
6	Bio 9544 (F)	13638	1	12507	4	9540	1	12078	2	3044	1	10472	1	10021	1	10021	1
7	DHM 121 (F)	8783	7	13149	3	8365	4	11688	3	2729	2	8222	6	8752	4	8752	4
	Mean	10333.8	.	12547.1	.	8027.2	.	11028.8	.	2363.8	.	8877.8	.	8796.5	.	8796.5	.
	CV (%)	13.5	.	10.4	.	10.7	.	12.4	.	18.3	.	14.4	.	13.7	.	13.7	.
	F (Prob)	0.0	.	0.4	.	0.0	.	0.2	.	0.0	.	0.3	.	0.0	.	0.0	.
	CD (5%)	2488.8	.	2309.7	.	1524.5	.	2436.0	.	769.7	.	2271.8	.	537.0	.	537.0	.
	CD (1%)	3489.1	.	3238.0	.	2137.2	.	3415.1	.	1079.0	.	3184.8	.	708.9	.	708.9	.

Table No. : 16 **(Conti...)**

Gain in Yield (%) over Bio 605 (Check)

S. No.	Entry Name	PZ																										All India	
		BULD		COIM		DHAR		DHUL		HYDE		KARI		KOLH		MAND		NIPH		PARB		PEDD		RAHU		VRDC		VAGA		PZ		
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	FH3879	8.50	1	7.19	3	30.01	2	21.58	4	50.31	1	5.57	3	-11.29	4	1.27	2	3.02	4	0.33	1	32.55	3	13.76	4	55.75	3	12.53	2	11.78	3	11.78	3
2	Bio 605 (C)	0.00	7	0.00	5	0.00	7	0.00	7	0.00	6	0.00	6	0.00	3	0.00	3	0.00	5	0.00	2	0.00	7	0.00	6	0.00	6	0.00	4	0.00	6	0.00	6
3	DKC 7074 (C)	6.26	4	10.35	2	28.15	3	52.28	2	31.78	4	1.57	4	-12.43	6	2.99	1	36.45	2	-15.69	7	44.11	2	25.78	1	50.04	4	-8.42	7	13.66	2	13.66	2
4	Vivek HYBRID 45 (C)	2.20	5	-12.37	7	4.79	6	5.90	6	2.95	5	-6.61	7	4.73	2	-13.59	6	-1.67	6	-8.51	6	17.67	5	-1.26	7	-17.09	7	1.69	3	-1.53	7	-1.53	7
5	Vivek HYBRID 51 (C)	1.69	6	-6.43	6	24.14	4	17.51	5	-9.20	7	7.02	2	-11.34	5	-10.31	5	20.86	3	-8.32	5	9.77	6	10.21	5	26.66	5	-1.79	5	2.65	5	2.65	5
6	Bio 9544 (F)	8.06	2	24.35	1	34.00	1	72.45	1	36.56	3	0.21	5	11.52	1	-3.86	4	52.64	1	-5.89	4	50.53	1	23.98	2	73.88	1	21.48	1	23.28	1	23.28	1
7	DHM 121 (F)	6.43	3	6.49	4	7.19	5	25.53	3	41.05	2	15.56	1	-12.68	7	-16.59	7	-1.70	7	-1.06	3	31.98	4	19.97	3	55.86	2	-4.62	6	7.66	4	7.66	4

Gain in Yield (%) over DKC 7074 (Check)

S. No.	Entry Name	PZ																										All India	
		BULD		COIM		DHAR		DHUL		HYDE		KARI		KOLH		MAND		NIPH		PARB		PEDD		RAHU		VRDC		VAGA		PZ		
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	FH3879	2.11	1	-2.86	3	1.45	2	-20.16	4	14.06	1	3.94	3	1.31	4	-1.67	2	-24.50	4	19.01	1	-8.02	3	-9.55	4	3.80	3	22.89	2	-1.66	3	-1.66	3
2	Bio 605 (C)	-5.89	7	-9.38	5	-21.96	7	-34.33	7	-24.12	6	-1.55	6	14.20	3	-2.90	3	-26.71	5	18.62	2	-30.61	7	-20.50	6	-33.35	6	9.20	4	-12.02	6	-12.02	6
3	DKC 7074 (C)	0.00	4	0.00	2	0.00	3	0.00	2	0.00	4	0.00	4	0.00	6	0.00	1	0.00	2	0.00	7	0.00	2	0.00	1	0.00	4	0.00	7	0.00	2	0.00	2
4	Vivek HYBRID 45 (C)	-3.82	5	-20.59	7	-18.23	6	-30.46	6	-21.88	5	-8.05	7	19.60	2	-16.10	6	-27.94	6	8.52	6	-18.35	5	-21.50	7	-44.74	7	11.04	3	-13.36	7	-13.36	7
5	Vivek HYBRID 51 (C)	-4.30	6	-15.21	6	-3.13	4	-22.83	5	-31.10	7	5.37	2	1.25	5	-12.92	5	-11.43	3	8.75	5	-23.83	6	-12.38	5	-15.58	5	7.25	5	-9.69	5	-9.69	5
6	Bio 9544 (F)	1.70	2	12.69	1	4.57	1	13.25	1	3.63	3	-1.34	5	27.36	1	-6.65	4	11.87	1	11.63	4	4.45	1	-1.43	2	15.89	1	32.65	1	8.47	1	8.47	1
7	DHM 121 (F)	0.16	3	-3.50	4	-16.36	5	-17.56	3	7.03	2	13.78	1	-0.28	7	-19.01	7	-27.96	7	17.36	3	-8.42	4	-4.62	3	3.88	2	4.15	6	-5.28	4	-5.28	4

Gain in Yield (%) over Vivek HYBRID 45 (Check)

S. No.	Entry Name	PZ																										All India	
		BULD		COIM		DHAR		DHUL		HYDE		KARI		KOLH		MAND		NIPH		PARB		PEDD		RAHU		VRDC		VAGA		PZ		
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	FH3879	6.16	1	22.32	3	24.07	2	14.81	4	46.00	1	13.04	3	-15.30	4	17.21	2	4.77	4	9.66	1	12.64	3	15.22	4	87.86	3	10.67	2	13.51	3	13.51	3
2	Bio 605 (C)	-2.15	7	14.11	5	-4.57	7	-5.57	7	-2.87	6	7.07	6	-4.52	3	15.73	3	1.70	5	9.30	2	-15.02	7	1.28	6	20.62	6	-1.66	4	1.55	6	1.55	6
3	DKC 7074 (C)	3.98	4	25.92	2	22.29	3	43.79	2	28.01	4	8.75	4	-16.39	6	19.19	1	38.77	2	-7.85	7	22.47	2	27.39	1	80.97	4	-9.94	7	15.43	2	15.43	2
4	Vivek HYBRID 45 (C)	0.00	5	0.00	7	0.00	6	0.00	6	0.00	5	0.00	7	0.00	2	0.00	6	0.00	6	0.00	6	0.00	5	0.00	7	0.00	7	0.00	3	0.00	7	0.00	7
5	Vivek HYBRID 51 (C)	-0.50	6	6.77	6	18.46	4	10.96	5	-11.80	7	14.59	2	-15.34	5	3.80	5	22.91	3	0.20	5	-6.72	6	11.62	5	52.78	5	-3.42	5	4.24	5	4.24	5
6	Bio 9544 (F)	5.74	2	41.90	1	27.88	1	62.84	1	32.65	3	7.30	5	6.48	1	11.26	4	55.23	1	2.86	4	27.92	1	25.56	2	109.73	1	19.46	1	25.20	1	25.20	1
7	DHM 121 (F)	4.14	3	21.51	4	2.29	5	18.54	3	37.01	2	23.74	1	-16.62	7	-3.47	7	-0.03	7	8.14	3	12.16	4	21.50	3	88.00	2	-6.20	6	9.34	4	9.34	4

Gain in Yield (%) over Vivek HYBRID 51 (Check)

S. No.	Entry Name	PZ																										All India	
		BULD		COIM		DHAR		DHUL		HYDE		KARI		KOLH		MAND		NIPH		PARB		PEDD		RAHU		VRDC		VAGA		PZ		
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	FH3879	6.69	1	14.56	3	4.73	2	3.47	4	65.53	1	-1.36	3	0.05	4	12.92	2	-14.76	4	9.44	1	20.76	3	3.23	4	22.96	3	14.58	2	8.89	3	8.89	3
2	Bio 605 (C)	-1.66	7	6.87	5	-19.44	7	-14.90	7	10.13	6	-6.56	6	12.78	3	11.50	3	-17.26	5	9.08	2	-8.90	7	-9.26	6	-21.05	6	1.82	4	-2.58	6	-2.58	6
3	DKC 7074 (C)	4.49	4	17.94	2	3.23	3	29.59	2	45.13	4	-5.10	4	-1.24	6	14.83	1	12.90	2	-8.04	7	31.29	2	14.13	1	18.45	4	-6.76	7	10.73	2	10.73	2
4	Vivek HYBRID 45 (C)	0.50	5	-6.34	7	-15.59	6	-9.88	6	13.38	5	-12.73	7	18.12	2	-3.66	6	-18.64	6	-0.20	6	7.20	5	-10.41	7	-34.55	7	3.54	3	-4.07	7	-4.07	7
5	Vivek HYBRID 51 (C)	0.00	6	0.00	6	0.00	4	0.00	5	0.00	7	0.00	2	0.00	5	0.00	5	0.00	3	0.00	5	0.00	6	0.00	5	0.00	5	0.00	5	0.00	5	0.00	5
6	Bio 9544 (F)	6.27	2	32.90	1	7.95	1	46.75	1	50.40	3	-6.36	5	25.78	1	7.19	4	26.30	1	2.65	4	37.14	1	12.49	2	37.28	1	23.69	1	20.10	1	20.10	1
7	DHM 121 (F)	4.66	3	13.81	4	-13.66	5	6.82	3	55.34	2	7.98	1	-1.51	7	-7.00	7	-18.66	7	7.92	3	20.24	4	8.86	3	23.05	2	-2.88	6	4.88	4	4.88	4

Table No. : 16 (Conti...)

Number of cobs

S. No.	Entry Name	PZ																All India
		ARBH	BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NIPH	PARB	PEDD	RAHU	VRDC	VAGA	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3879	59	75	63	74	80	75	66	71	95	98	66	79	114	73	59	77	77
2	Bio 605 (C)	58	75	62	61	46	63	64	72	89	88	65	67	115	50	55	69	69
3	DKC 7074 (C)	65	74	64	75	82	70	69	75	87	113	66	75	117	76	57	78	78
4	Vivek HYBRID 45 (C)	66	68	61	75	83	65	67	75	87	92	68	82	112	41	58	73	73
5	Vivek HYBRID 51 (C)	64	80	63	76	87	63	66	72	93	103	65	78	119	61	57	76	76
6	Bio 9544 (F)	62	81	65	72	75	73	67	74	80	126	66	79	113	65	59	77	77
7	DHM 121 (F)	61	79	62	61	57	65	69	67	79	98	65	76	113	56	56	71	71
	Mean	62.2	76.0	62.9	70.5	72.9	67.8	66.7	72.2	87.0	102.5	66.0	76.6	114.7	60.4	57.3	74.4	74.4
	CV (%)	12.6	6.5	1.5	7.0	16.7	8.4	4.4	6.0	10.6	9.2	2.9	7.0	3.2	19.0	7.3	9.1	9.1
	F (Prob)	0.9	0.1	0.0	0.0	0.0	0.2	0.4	0.3	0.3	0.0	0.3	0.1	0.3	0.0	0.9	0.0	0.0
	CD (5%)	13.9	8.8	1.7	8.8	21.7	10.1	5.2	7.7	16.4	16.7	3.4	9.6	6.5	20.4	7.5	2.8	2.8
	CD (1%)	19.5	12.4	2.3	12.4	30.4	14.2	7.3	10.8	23.0	23.4	4.8	13.4	9.1	28.6	10.5	3.7	3.7

Ear height (cm)

S. No.	Entry Name	PZ																All India
		ARBH	BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NIPH	PARB	PEDD	RAHU	VRDC	VAGA	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3879	99	79	94	70	92	79	77	47	100	78	88	70	106	36	62	78	78
2	Bio 605 (C)	103	89	102	73	101	83	73	43	109	88	87	78	119	64	69	86	86
3	DKC 7074 (C)	101	91	99	72	95	77	71	40	95	80	84	85	107	57	57	81	81
4	Vivek HYBRID 45 (C)	92	76	87	58	80	65	64	52	87	84	77	55	97	36	59	71	71
5	Vivek HYBRID 51 (C)	96	97	94	65	99	79	75	57	95	82	87	82	107	53	71	83	83
6	Bio 9544 (F)	91	95	106	75	114	88	68	70	100	88	82	77	105	60	74	86	86
7	DHM 121 (F)	100	98	106	82	103	89	73	62	105	86	87	77	103	52	67	86	86
	Mean	97.1	89.3	98.1	70.7	97.7	80.0	71.6	52.9	98.8	83.9	84.4	74.8	106.3	51.2	65.5	81.5	81.5
	CV (%)	7.6	7.9	2.9	11.4	6.9	10.7	10.0	10.9	4.1	8.3	4.6	10.9	5.1	15.8	7.3	8.1	8.1
	F (Prob)	0.4	0.0	0.0	0.1	0.0	0.1	0.4	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	13.1	12.6	5.1	14.4	12.1	15.3	12.7	10.2	7.1	12.4	6.9	14.5	9.7	14.4	8.5	2.7	2.7
	CD (1%)	18.4	17.7	7.1	20.2	16.9	21.4	17.9	14.4	10.0	17.3	9.7	20.3	13.6	20.1	11.9	3.6	3.6

Table No. : 16 (Conti...)

Final Plant Stand (000/ha)

S. No.	Entry Name	PZ																All India
		ARBH	BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NIPH	PARB	PEDD	RAHU	VRDC	VAGA	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3879	60	50	65	77	71	78	68	75	67	82	74	94	64	53	61	69	69
2	Bio 605 (C)	55	51	65	64	72	66	68	76	61	80	76	79	63	47	58	65	65
3	DKC 7074 (C)	65	50	66	78	72	73	73	81	60	81	76	89	64	55	60	70	70
4	Vivek HYBRID 45 (C)	65	47	65	78	72	68	71	81	64	81	80	97	62	50	60	69	69
5	Vivek HYBRID 51 (C)	63	52	66	79	74	66	69	75	70	82	77	92	64	49	60	69	69
6	Bio 9544 (F)	59	52	66	75	70	76	70	78	59	80	77	92	65	49	61	69	69
7	DHM 121 (F)	54	51	65	64	73	68	72	72	68	82	75	90	63	44	58	67	67
	Mean	60.1	50.5	65.5	73.5	71.8	70.6	70.3	76.9	64.2	81.2	76.4	90.8	63.5	49.8	59.9	68.3	68.3
	CV (%)	13.5	4.7	1.8	7.0	3.3	8.4	3.3	5.7	9.7	2.1	3.7	6.6	3.8	10.7	7.0	6.6	6.6
	F (Prob)	0.5	0.1	0.6	0.0	0.5	0.2	0.2	0.2	0.3	0.5	0.3	0.1	0.8	0.3	0.9	0.0	0.0
	CD (5%)	14.4	4.2	2.1	9.2	4.1	10.5	4.2	7.8	11.1	3.0	5.1	10.6	4.3	9.5	7.4	1.9	1.9
	CD (1%)	20.2	5.9	2.9	12.9	5.8	14.8	5.8	10.9	15.5	4.2	7.1	14.8	6.1	13.3	10.4	2.5	2.5

Moisture (%)

S. No.	Entry Name	PZ																All India
		ARBH	BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NIPH	PARB	PEDD	RAHU	VRDC	VAGA	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3879	19.1	13.6	16.9	11.5	13.8	23.0	20.2	20.0	15.8	16.5	26.5	19.4	19.0	12.8	15.0	17.5	17.5
2	Bio 605 (C)	20.3	13.7	17.2	10.6	13.1	21.0	18.6	19.5	15.3	18.7	25.9	18.0	19.2	12.7	14.4	17.2	17.2
3	DKC 7074 (C)	21.2	13.2	17.3	10.4	13.4	19.7	19.5	19.0	15.0	17.7	26.1	18.6	18.8	12.9	14.1	17.1	17.1
4	Vivek HYBRID 45 (C)	19.1	13.7	16.1	13.0	13.6	19.7	19.9	18.7	15.4	17.3	26.3	18.7	18.5	12.4	12.7	17.0	17.0
5	Vivek HYBRID 51 (C)	19.3	13.3	16.9	10.3	13.2	16.6	19.5	19.0	14.3	16.4	25.7	19.0	18.4	12.3	13.3	16.5	16.5
6	Bio 9544 (F)	17.9	13.6	17.5	12.6	13.6	23.8	20.2	19.8	15.5	17.2	25.6	21.3	20.1	12.8	14.7	17.7	17.7
7	DHM 121 (F)	19.8	13.2	16.6	11.5	13.5	22.9	18.8	19.8	15.8	19.1	26.0	18.6	19.9	13.0	15.2	17.6	17.6
	Mean	19.5	13.5	16.9	11.4	13.5	21.0	19.5	19.4	15.3	17.6	26.0	19.1	19.1	12.7	14.2	17.2	17.2
	CV (%)	7.9	6.4	3.2	13.2	3.9	6.2	4.0	1.2	2.3	6.2	2.0	2.6	3.3	2.1	4.4	5.0	5.0
	F (Prob)	0.3	1.0	0.1	0.3	0.7	0.0	0.2	0.0	0.0	0.1	0.4	0.0	0.0	0.1	0.0	0.0	0.0
	CD (5%)	2.7	1.5	1.0	2.7	0.9	2.3	1.4	0.4	0.6	2.0	0.9	0.9	1.1	0.5	1.1	0.4	0.4
	CD (1%)	3.8	2.2	1.4	3.7	1.3	3.2	2.0	0.6	0.9	2.7	1.3	1.2	1.6	0.7	1.5	0.5	0.5

Table No. : 16 (Conti...)

Days to 75% Dry husk

S. No.	Entry Name	PZ																All India
		ARBH	BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NIPH	PARB	PEDD	RAHU	VRDC	VAGA	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3879	103	87	91	90	98	88	89	94	98	98	108	78	103	101	91	94	94
2	Bio 605 (C)	101	87	92	97	98	92	89	93	91	97	109	79	104	108	94	95	95
3	DKC 7074 (C)	104	91	92	92	96	91	89	93	91	93	110	78	103	107	94	95	95
4	Vivek HYBRID 45 (C)	100	90	90	90	98	87	87	91	92	93	107	77	101	101	91	93	93
5	Vivek HYBRID 51 (C)	99	93	88	86	96	87	90	91	91	93	108	74	98	100	90	92	92
6	Bio 9544 (F)	100	92	94	92	96	92	87	94	100	97	109	80	106	112	93	96	96
7	DHM 121 (F)	106	93	94	97	98	92	89	96	100	98	108	80	105	112	95	98	98
	Mean	101.9	90.5	91.5	92.0	97.3	89.8	88.4	93.1	94.6	95.5	108.4	78.0	102.9	105.7	92.5	94.8	94.8
	CV (%)	4.9	4.7	0.6	3.6	1.9	1.8	1.5	2.6	1.7	1.8	1.4	0.6	1.6	1.6	1.2	2.4	2.4
	F (Prob)	0.6	0.4	0.0	0.0	0.5	0.0	0.3	0.3	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	8.8	7.5	1.0	5.9	3.4	2.9	2.3	4.3	2.9	3.0	2.8	0.9	3.0	2.9	1.9	1.0	1.0
	CD (1%)	12.3	10.5	1.4	8.3	4.7	4.1	3.3	6.1	4.1	4.2	3.9	1.2	4.2	4.1	2.7	1.3	1.3

Days to 50% Anthesis

S. No.	Entry Name	PZ																All India
		ARBH	BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NIPH	PARB	PEDD	RAHU	VRDC	VAGA	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3879	56	52	49	56	53	51	51	54	53	56	50	46	57	58	48	53	53
2	Bio 605 (C)	57	53	51	59	53	55	51	53	53	60	49	48	58	66	51	54	54
3	DKC 7074 (C)	57	54	52	58	53	54	51	53	54	56	49	46	59	65	52	54	54
4	Vivek HYBRID 45 (C)	52	54	47	55	56	50	50	51	50	56	50	45	55	60	47	52	52
5	Vivek HYBRID 51 (C)	55	55	46	52	55	50	52	51	48	55	49	42	54	58	45	51	51
6	Bio 9544 (F)	56	53	54	58	53	55	50	54	57	60	51	49	61	68	52	55	55
7	DHM 121 (F)	62	54	53	59	53	56	51	56	57	61	49	49	62	68	52	56	56
	Mean	56.5	53.6	50.3	56.8	53.7	52.8	50.9	53.1	53.1	57.7	49.6	46.5	57.9	63.0	49.5	53.7	53.7
	CV (%)	5.0	4.8	1.8	2.9	5.0	3.1	1.5	4.6	1.4	4.4	2.7	1.0	2.4	1.3	2.5	3.3	3.3
	F (Prob)	0.0	0.8	0.0	0.0	0.7	0.0	0.1	0.3	0.0	0.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	5.1	4.6	1.6	2.9	4.8	2.9	1.4	4.3	1.3	4.5	2.4	0.8	2.5	1.4	2.2	0.7	0.7
	CD (1%)	7.1	6.4	2.3	4.1	6.7	4.0	2.0	6.1	1.9	6.3	3.3	1.2	3.5	2.0	3.1	1.0	1.0

Table No. : 16 (Conti...)

Days to 50% Silking

S. No.	Entry Name	PZ																All India
		ARBH	BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NIPH	PARB	PEDD	RAHU	VRDC	VAGA	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3879	55	54	52	58	60	53	53	56	55	60	56	48	58	60	51	55	55
2	Bio 605 (C)	57	55	54	62	60	57	53	55	55	65	57	50	60	68	54	57	57
3	DKC 7074 (C)	57	56	54	60	60	56	53	55	56	61	56	48	61	67	54	57	57
4	Vivek HYBRID 45 (C)	51	55	51	57	62	52	52	54	52	61	56	47	57	61	51	55	55
5	Vivek HYBRID 51 (C)	54	57	49	54	61	52	54	52	50	59	55	44	56	59	49	54	54
6	Bio 9544 (F)	56	56	56	58	59	57	52	57	58	65	56	51	63	70	55	58	58
7	DHM 121 (F)	59	56	56	61	61	57	53	59	58	66	56	51	64	70	56	59	59
	Mean	55.6	55.6	53.1	58.6	60.4	54.8	53.0	55.5	54.8	62.6	56.2	48.5	59.8	64.6	53.0	56.4	56.4
	CV (%)	5.2	4.8	1.0	2.9	2.5	3.0	1.7	4.2	2.4	4.2	3.6	1.0	2.6	1.3	2.4	3.2	3.2
	F (Prob)	0.1	0.7	0.0	0.0	0.5	0.0	0.1	0.1	0.0	0.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	5.2	4.8	1.0	3.0	2.7	2.9	1.6	4.1	2.3	4.7	3.6	0.9	2.8	1.5	2.3	0.7	0.7
	CD (1%)	7.2	6.7	1.4	4.2	3.7	4.1	2.2	5.8	3.3	6.6	5.1	1.3	3.9	2.1	3.2	1.0	1.0

Plant height (cm)

S. No.	Entry Name	PZ																All India
		ARBH	BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NIPH	PARB	PEDD	RAHU	VRDC	VAGA	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3879	178	161	191	170	232	193	174	137	204	213	190	180	230	97	153	180	180
2	Bio 605 (C)	188	174	199	178	244	195	169	158	214	218	190	182	253	128	154	190	190
3	DKC 7074 (C)	187	172	195	163	216	165	166	140	190	184	184	172	225	113	116	172	172
4	Vivek HYBRID 45 (C)	174	166	177	147	186	156	159	133	163	192	184	155	210	103	131	162	162
5	Vivek HYBRID 51 (C)	175	177	177	158	216	173	165	153	194	204	182	165	229	111	155	176	176
6	Bio 9544 (F)	168	174	205	163	231	189	163	167	200	206	187	167	233	122	144	181	181
7	DHM 121 (F)	192	188	212	192	257	207	166	187	218	204	186	178	251	116	152	194	194
	Mean	180.0	173.1	193.6	167.5	226.0	182.5	166.1	153.6	197.8	203.1	186.1	171.2	233.0	112.6	143.5	179.3	179.3
	CV (%)	4.3	3.8	2.8	5.2	4.8	5.5	5.9	5.9	4.7	8.5	2.1	6.7	3.2	13.7	7.4	5.7	5.7
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.3	0.2	0.1	0.0	0.3	0.0	0.0	0.0
	CD (5%)	13.8	11.7	9.8	15.5	19.1	17.8	17.4	16.2	16.5	30.7	7.0	20.4	13.2	27.4	18.8	4.2	4.2
	CD (1%)	19.3	16.4	13.7	21.7	26.8	24.9	24.3	22.8	23.1	43.0	9.8	28.5	18.6	38.5	26.4	5.6	5.6

Table No. : 16 (Conti...)

Plant stad

S. No.	Entry Name	PZ															All India
		BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NIPH	PARB	PEDD	RAHU	VRDC	VAGA	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3879	80	63	78	70	78	70	75	97	80	73	81	119	80	61	79	79
2	Bio 605 (C)	78	63	72	70	73	67	77	89	79	74	72	118	78	58	76	76
3	DKC 7074 (C)	80	64	79	72	75	73	79	88	80	75	77	122	81	59	79	79
4	Vivek HYBRID 45 (C)	75	63	76	70	73	74	80	92	79	78	83	116	79	59	78	78
5	Vivek HYBRID 51 (C)	80	63	75	74	75	70	76	100	80	75	80	125	78	60	79	79
6	Bio 9544 (F)	80	64	75	72	74	72	79	84	80	74	80	119	80	61	78	78
7	DHM 121 (F)	80	64	75	71	72	73	73	100	80	74	77	119	79	56	78	78
	Mean	79.1	63.5	75.7	71.4	74.3	71.1	77.0	93.1	79.5	74.6	78.5	119.8	79.3	59.1	78.3	78.3
	CV (%)	2.8	1.2	3.5	2.4	9.3	4.1	5.4	9.3	0.8	3.1	6.2	5.1	2.4	6.9	5.4	5.4
	F (Prob)	0.1	0.8	0.1	0.1	0.9	0.2	0.4	0.2	0.1	0.3	0.2	0.6	0.5	0.9	0.0	0.0
	CD (5%)	3.9	1.4	4.8	3.1	12.3	5.2	7.3	15.4	1.1	4.1	8.7	10.8	3.4	7.3	1.8	1.8
	CD (1%)	5.5	1.9	6.7	4.3	17.3	7.3	10.3	21.6	1.5	5.8	12.2	15.2	4.7	10.2	2.4	2.4

Shelling (%)

S. No.	Entry Name	PZ															All India
		BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NIPH	PARB	PEDD	RAHU	VRDC	VAGA	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3879	85	78	85	74	80	79	77	85	66	92	82	80	82	82	80	80
2	Bio 605 (C)	87	82	86	76	78	79	78	84	75	91	85	81	85	80	82	82
3	DKC 7074 (C)	85	81	85	77	80	79	76	84	69	93	82	79	84	79	81	81
4	Vivek HYBRID 45 (C)	85	80	85	77	81	79	76	84	71	91	85	82	84	80	81	81
5	Vivek HYBRID 51 (C)	85	79	86	79	84	81	77	85	71	90	78	82	85	81	82	82
6	Bio 9544 (F)	85	80	87	72	79	79	79	84	68	90	84	80	85	81	81	81
7	DHM 121 (F)	84	78	84	70	74	79	71	82	65	89	80	79	84	80	79	79
	Mean	85.1	79.7	85.3	74.9	79.4	79.3	76.3	84.0	69.1	91.0	82.2	80.2	84.2	80.4	80.8	80.8
	CV (%)	1.1	0.6	0.8	3.6	2.2	1.2	1.2	0.8	6.9	1.7	3.0	1.3	3.2	0.9	2.4	2.4
	F (Prob)	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.1	0.0	0.0	0.7	0.0	0.0	0.0
	CD (5%)	1.6	0.9	1.2	4.8	3.1	1.6	1.7	1.2	8.5	2.8	4.3	1.8	4.7	1.2	0.8	0.8
	CD (1%)	2.3	1.2	1.7	6.8	4.3	2.3	2.4	1.7	11.9	3.9	6.1	2.5	6.6	1.7	1.1	1.1

Table No. : 17 Trial No. 644 (Medium Maturity, PZ) AVT-I-II

Yield Kg/ha

S. No.	Entry Name	PZ															
		BULD		COIM		DHAR		DHUL		HYDE		KARI		KOLH		MAND	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	CAH 1511	9386	9	9263	12	9845	10	9256	10	11086	2	3825	4	5162	11	7813	11
2	DKC 9194	11134	1	11552	1	11492	4	11057	4	11508	1	3425	7	5735	7	9382	4
3	DKC 9198	9968	6	9725	9	10546	6	10097	6	10434	4	1846	12	5504	10	7561	12
4	HT 18607	9553	8	9597	10	11954	2	10715	5	9628	11	3216	8	6571	5	8285	8
5	INDAM 1122	11098	3	11518	2	12901	1	9431	9	10046	6	1510	13	6180	6	10496	3
6	JKMH 15303	11130	2	11071	4	11922	3	11595	2	8028	13	2572	10	7653	2	11269	1
7	JKMH1518	10698	4	11446	3	8653	12	11557	3	9897	8	3469	6	8193	1	10799	2
8	MM9309	9203	10	9863	7	11013	5	6324	13	9827	10	3936	3	5162	12	9239	5
9	SYN816604	10177	5	10507	5	7981	13	11915	1	9977	7	2196	11	7109	4	8472	7
10	ZH 161032	8193	13	9757	8	9867	9	8249	11	10361	5	3668	5	5723	8	8967	6
11	Bio 9544 (C)	9662	7	10462	6	10050	8	9778	7	10988	3	4458	2	4881	13	7482	13
12	CMH 08-292 (C)	8517	11	8423	13	9542	11	9493	8	8280	12	4571	1	5514	9	7831	10
13	DHM 121 (C)	8306	12	9390	11	10402	7	7068	12	9879	9	2997	9	7190	3	8214	9
	Mean	9771.1	.	10198.0	.	10474.3	.	9733.5	.	9995.4	.	3206.9	.	6198.1	.	8908.4	.
	CV (%)	7.5	.	8.9	.	17.8	.	11.6	.	9.6	.	17.2	.	12.0	.	14.2	.
	F (Prob)	0.0	.	0.0	.	0.2	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.
	CD (5%)	1233.7	.	1521.9	.	3148.2	.	1898.6	.	1608.7	.	931.3	.	1252.1	.	2130.4	.
	CD (1%)	1671.9	.	2062.4	.	4266.4	.	2572.9	.	2180.0	.	1262.1	.	1696.8	.	2887.0	.

Gain in Yield (%) over Bio 9544 (Check)

S. No.	Entry Name	PZ															
		BULD		COIM		DHAR		DHUL		HYDE		KARI		KOLH		MAND	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	CAH 1511	-2.85	9	-11.47	11	-2.04	9	-5.34	10	0.89	2	-14.19	4	5.75	10	4.42	10
2	DKC 9194	15.23	1	10.41	1	14.35	4	13.08	4	4.73	1	-23.17	6	17.50	7	25.39	4
3	DKC 9198	3.17	6	-7.04	8	4.94	6	3.26	6	-5.04	4	-58.60	11	12.75	9	1.06	11
4	HT 18607	-1.13	8	-8.27	9	18.95	2	9.58	5	-12.38	10	-27.86	7	34.62	5	10.73	7
5	INDAM 1122	14.86	3	10.09	2	28.37	1	-3.55	9	-8.57	5	-66.13	12	26.59	6	40.27	3
6	JKMH 15303	15.19	2	5.82	4	18.63	3	18.59	2	-26.94	12	-42.29	9	56.77	2	50.61	1
7	JKMH1518	10.72	4	9.40	3	-13.90	11	18.19	3	-9.93	7	-22.18	5	67.84	1	44.32	2
8	MM9309	-4.75	10	-5.73	7	9.59	5	-35.33	12	-10.57	9	-11.70	3	5.74	11	23.48	5
9	SYN816604	5.33	5	0.43	5	-20.59	12	21.85	1	-9.20	6	-50.73	10	45.64	4	13.23	6
10	Bio 9544 (C)	0.00	7	0.00	6	0.00	8	0.00	7	0.00	3	0.00	2	0.00	12	0.00	12
11	CMH 08-292 (C)	-11.86	11	-19.49	12	-5.06	10	-2.92	8	-24.65	11	2.55	1	12.95	8	4.66	9
12	DHM 121 (C)	-14.04	12	-10.25	10	3.50	7	-27.72	11	-10.09	8	-32.77	8	47.29	3	9.78	8

Table No. : 17 (Conti...)

Yield Kg/ha

S. No.	Entry Name	PZ																All India	
		NIPH		PARB		PEDD		RAHU		RAIC		VDRC		VAGA		PZ			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	CAH 1511	9833	7	14143	7	10406	7	14500	2	8354	6	3958	7	8382	9	9800	7	9800	7
2	DKC 9194	9733	8	12919	13	11872	1	11095	12	8874	4	3666	9	10545	1	10597	4	10597	4
3	DKC 9198	41409	1	14741	1	11829	3	10123	13	8416	5	5155	2	7665	12	9717	8	9717	8
4	HT 18607	9978	6	14186	6	10253	8	13747	7	9533	1	3914	8	8661	6	10224	5	10224	5
5	INDAM 1122	10512	3	13799	8	11103	4	13325	8	8162	8	1605	13	9186	2	10604	3	10604	3
6	JKMH 15303	9566	9	13353	12	11832	2	13891	5	8312	7	4804	3	8613	7	10722	1	10722	1
7	JKMH1518	10174	4	14324	5	10982	5	13979	4	9126	2	3202	12	8512	8	10680	2	10680	2
8	MM9309	10901	2	14590	3	9424	12	14698	1	8069	9	4769	4	9172	3	9715	9	9715	9
9	SYN816604	10033	5	14367	4	10406	6	11407	11	7395	13	3568	10	8774	5	9874	6	9874	6
10	ZH 161032	8623	12	14662	2	9604	11	13794	6	7492	12	3959	6	7159	13	9486	11	9486	11
11	Bio 9544 (C)	9528	10	13397	11	9828	10	13319	9	7660	11	5188	1	8133	10	9637	10	9637	10
12	CMH 08-292 (C)	8905	11	13750	9	9866	9	12193	10	9115	3	4204	5	9132	4	9305	13	9305	13
13	DHM 121 (C)	7534	13	13714	10	8294	13	14211	3	8038	10	3231	11	7996	11	9392	12	9392	12
	Mean	12056.2	.	13995.8	.	10438.3	.	13098.6	.	8349.7	.	3940.2	.	8610.0	.	9980.9	.	9980.9	.
	CV (%)	123.8	.	7.0	.	9.4	.	11.5	.	17.2	.	29.2	.	14.4	.	11.9	.	11.9	.
	F (Prob)	0.4	.	0.5	.	0.0	.	0.0	.	0.8	.	0.1	.	0.3	.	0.0	.	0.0	.
	CD (5%)	25151.2	.	1645.5	.	1655.0	.	2536.3	.	2414.9	.	1937.7	.	2085.9	.	551.2	.	551.2	.
	CD (1%)	34084.2	.	2230.0	.	2242.8	.	3437.1	.	3272.7	.	2625.9	.	2826.7	.	726.2	.	726.2	.

Gain in Yield (%) over Bio 9544 (Check)

S. No.	Entry Name	PZ																All India	
		NIPH		PARB		PEDD		RAHU		RAIC		VRDC		VAGA		PZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	CAH 1511	3.20	7	5.57	6	5.88	7	8.87	2	9.05	6	-23.72	6	3.06	9	1.69	7	1.69	7
2	DKC 9194	2.15	8	-3.56	12	20.79	1	-16.69	11	15.85	4	-29.33	8	29.66	1	9.96	4	9.96	4
3	DKC 9198	334.58	1	10.04	1	20.36	3	-23.99	12	9.86	5	-0.64	2	-5.76	12	0.84	8	0.84	8
4	HT 18607	4.72	6	5.89	5	4.33	8	3.22	6	24.44	1	-24.56	7	6.49	6	6.09	5	6.09	5
5	INDAM 1122	10.32	3	3.00	7	12.97	4	0.05	7	6.55	8	-69.07	12	12.95	2	10.03	3	10.03	3
6	JKMH 15303	0.40	9	-0.32	11	20.39	2	4.30	5	8.51	7	-7.40	3	5.91	7	11.27	1	11.27	1
7	JKMH1518	6.78	4	6.92	4	11.74	5	4.96	4	19.13	2	-38.28	11	4.67	8	10.83	2	10.83	2
8	MM9309	14.41	2	8.91	2	-4.11	11	10.36	1	5.33	9	-8.09	4	12.78	3	0.82	9	0.82	9
9	SYN816604	5.29	5	7.24	3	5.88	6	-14.35	10	-3.47	12	-31.23	9	7.89	5	2.46	6	2.46	6
10	Bio 9544 (C)	0.00	10	0.00	10	0.00	10	0.00	8	0.00	11	0.00	1	0.00	10	0.00	10	0.00	10
11	CMH 08-292 (C)	-6.54	11	2.64	8	0.39	9	-8.45	9	18.99	3	-18.97	5	12.28	4	-3.45	12	-3.45	12
12	DHM 121 (C)	-20.93	12	2.37	9	-15.61	12	6.70	3	4.93	10	-37.73	10	-1.69	11	-2.54	11	-2.54	11

Table No. : 17 (Cont...)

Gain in Yield (%) over CMH 08-292 (Check)

S. No.	Entry Name	PZ															
		BULD		COIM		DHAR		DHUL		HYDE		KARI		KOLH		MAND	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	CAH 1511	10.21	9	9.97	11	3.18	9	-2.50	10	33.89	2	-16.32	4	-6.38	10	-0.23	10
2	DKC 9194	30.73	1	37.14	1	20.44	4	16.47	4	38.99	1	-25.08	6	4.02	7	19.80	4
3	DKC 9198	17.04	6	15.46	8	10.53	6	6.36	6	26.02	4	-59.62	11	-0.18	9	-3.44	11
4	HT 18607	12.17	8	13.94	9	25.29	2	12.87	5	16.28	10	-29.66	7	19.18	5	5.80	7
5	INDAM 1122	30.30	3	36.75	2	35.20	1	-0.66	9	21.33	5	-66.97	12	12.08	6	34.03	3
6	JKMH 15303	30.68	2	31.43	4	24.94	3	22.15	2	-3.05	12	-43.73	9	38.79	2	43.91	1
7	JKMH1518	25.61	4	35.89	3	-9.32	11	21.74	3	19.53	7	-24.12	5	48.59	1	37.90	2
8	MM9309	8.06	10	17.10	7	15.42	5	-33.38	12	18.68	9	-13.90	3	-6.38	11	17.99	5
9	SYN816604	19.50	5	24.74	5	-16.36	12	25.51	1	20.50	6	-51.95	10	28.94	4	8.19	6
10	Bio 9544 (C)	13.45	7	24.21	6	5.32	8	3.00	7	32.71	3	-2.48	2	-11.47	12	-4.45	12
11	CMH 08-292 (C)	0.00	11	0.00	12	0.00	10	0.00	8	0.00	11	0.00	1	0.00	8	0.00	9
12	DHM 121 (C)	-2.48	12	11.48	10	9.01	7	-25.54	11	19.31	8	-34.44	8	30.40	3	4.89	8

Gain in Yield (%) over DHM 121 (Check)

S. No.	Entry Name	PZ															
		BULD		COIM		DHAR		DHUL		HYDE		KARI		KOLH		MAND	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	CAH 1511	13.01	9	-1.35	11	-5.35	9	30.95	10	12.21	2	27.64	4	-28.20	10	-4.88	10
2	DKC 9194	34.05	1	23.02	1	10.48	4	56.43	4	16.49	1	14.28	6	-20.23	7	14.22	4
3	DKC 9198	20.01	6	3.57	8	1.39	6	42.85	6	5.62	4	-38.42	11	-23.45	9	-7.94	11
4	HT 18607	15.02	8	2.21	9	14.93	2	51.60	5	-2.54	10	7.29	7	-8.60	5	0.87	7
5	INDAM 1122	33.61	3	22.67	2	24.03	1	33.43	9	1.69	5	-49.62	12	-14.05	6	27.78	3
6	JKMH 15303	34.00	2	17.90	4	14.62	3	64.05	2	-18.74	12	-14.17	9	6.44	2	37.20	1
7	JKMH1518	28.80	4	21.90	3	-16.81	11	63.51	3	0.18	7	15.74	5	13.95	1	31.47	2
8	MM9309	10.80	10	5.04	7	5.88	5	-10.53	12	-0.53	9	31.33	3	-28.21	11	12.49	5
9	SYN816604	22.53	5	11.90	5	-23.27	12	68.57	1	0.99	6	-26.71	10	-1.12	4	3.14	6
10	Bio 9544 (C)	16.33	7	11.42	6	-3.38	8	38.34	7	11.23	3	48.74	2	-32.11	12	-8.91	12
11	CMH 08-292 (C)	2.54	11	-10.29	12	-8.27	10	34.31	8	-16.19	11	52.53	1	-23.31	8	-4.66	9
12	DHM 121 (C)	0.00	12	0.00	10	0.00	7	0.00	11	0.00	8	0.00	8	0.00	3	0.00	8

Table No. : 17

Gain in Yield (%) over CMH 08-292 (Check)

S. No.	Entry Name	PZ																All India	
		NIPH		PARB		PEDD		RAHU		RAIC		VRDC		VAGA		PZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	CAH 1511	10.42	7	2.86	6	5.47	7	18.92	2	-8.35	6	-5.86	6	-8.21	9	5.32	7	5.32	7
2	DKC 9194	9.29	8	-6.04	12	20.33	1	-9.00	11	-2.64	4	-12.79	8	15.48	1	13.89	4	13.89	4
3	DKC 9198	364.99	1	7.21	1	19.89	3	-16.97	12	-7.67	5	22.61	2	-16.07	12	4.44	8	4.44	8
4	HT 18607	12.04	6	3.17	5	3.92	8	12.74	6	4.58	1	-6.90	7	-5.15	6	9.88	5	9.88	5
5	INDAM 1122	18.04	3	0.36	7	12.53	4	9.28	7	-10.45	8	-61.83	12	0.60	2	13.96	3	13.96	3
6	JKMH 15303	7.42	9	-2.88	11	19.92	2	13.92	5	-8.81	7	14.28	3	-5.67	7	15.24	1	15.24	1
7	JKMH1518	14.25	4	4.18	4	11.31	5	14.65	4	0.12	2	-23.84	11	-6.78	8	14.79	2	14.79	2
8	MM9309	22.41	2	6.11	2	-4.48	11	20.55	1	-11.48	9	13.43	4	0.45	3	4.42	9	4.42	9
9	SYN816604	12.66	5	4.49	3	5.47	6	-6.44	10	-18.87	12	-15.14	9	-3.91	5	6.12	6	6.12	6
10	Bio 9544 (C)	7.00	10	-2.57	10	-0.39	10	9.23	8	-15.96	11	23.41	1	-10.94	10	3.57	10	3.57	10
11	CMH 08-292 (C)	0.00	11	0.00	8	0.00	9	0.00	9	0.00	3	0.00	5	0.00	4	0.00	12	0.00	12
12	DHM 121 (C)	-15.40	12	-0.26	9	-15.94	12	16.55	3	-11.82	10	-23.16	10	-12.44	11	0.94	11	0.94	11

Gain in Yield (%) over DHM 121 (Check)

S. No.	Entry Name	PZ																All India	
		NIPH		PARB		PEDD		RAHU		RAIC		VRDC		VAGA		PZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	CAH 1511	30.51	7	3.13	6	25.47	7	2.03	2	3.94	6	22.51	6	4.83	9	4.34	7	4.34	7
2	DKC 9194	29.18	8	-5.80	12	43.14	1	-21.93	11	10.41	4	13.49	8	31.88	1	12.83	4	12.83	4
3	DKC 9198	449.60	1	7.49	1	42.62	3	-28.77	12	4.70	5	59.57	2	-4.14	12	3.47	8	3.47	8
4	HT 18607	32.43	6	3.44	5	23.63	8	-3.27	6	18.60	1	21.16	7	8.32	6	8.86	5	8.86	5
5	INDAM 1122	39.52	3	0.62	7	33.87	4	-6.24	7	1.55	8	-50.32	12	14.89	2	12.90	3	12.90	3
6	JKMH 15303	26.97	9	-2.63	11	42.66	2	-2.26	5	3.41	7	48.72	3	7.73	7	14.17	1	14.17	1
7	JKMH1518	35.04	4	4.45	4	32.41	5	-1.63	4	13.53	2	-0.88	11	6.46	8	13.72	2	13.72	2
8	MM9309	44.69	2	6.39	2	13.63	11	3.43	1	0.39	9	47.61	4	14.72	3	3.45	9	3.45	9
9	SYN816604	33.16	5	4.76	3	25.47	6	-19.73	10	-8.00	12	10.44	9	9.74	5	5.14	6	5.14	6
10	Bio 9544 (C)	26.47	10	-2.31	10	18.50	10	-6.28	8	-4.69	11	60.60	1	1.71	10	2.61	10	2.61	10
11	CMH 08-292 (C)	18.20	11	0.26	8	18.96	9	-14.20	9	13.40	3	30.14	5	14.21	4	-0.93	12	-0.93	12
12	DHM 121 (C)	0.00	12	0.00	9	0.00	12	0.00	3	0.00	10	0.00	10	0.00	11	0.00	11	0.00	11

Table No. : 17 (Conti...)

Number of cobs

S. No.	Entry Name	PZ																All India
		BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NIPH	PARB	PEDD	RAHU	RAIC	VRDC	VAGA	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH 1511	120	94	112	105	112	85	70	87	132	107	112	117	93	94	86	102	102
2	DKC 9194	124	95	115	131	118	71	71	87	144	108	118	123	101	111	90	107	107
3	DKC 9198	155	93	112	116	113	67	68	79	156	108	118	121	91	118	87	107	107
4	HT 18607	112	94	109	114	112	80	74	78	142	109	108	114	99	96	81	102	102
5	INDAM 1122	107	95	111	115	112	52	70	83	152	104	116	118	92	54	81	97	97
6	JKMH 15303	118	94	124	121	114	63	72	89	145	105	117	118	97	111	85	105	105
7	JKMH1518	109	95	100	120	109	81	77	84	156	103	116	119	94	95	85	103	103
8	MM9309	106	95	113	94	104	87	72	87	157	109	116	114	89	107	80	102	102
9	SYN816604	109	95	105	121	106	78	76	83	147	108	119	118	92	108	78	103	103
10	ZH 161032	97	93	97	95	106	84	71	90	128	105	110	119	85	106	78	98	98
11	Bio 9544 (C)	117	94	115	124	112	90	77	80	138	106	118	117	87	120	78	105	105
12	CMH 08-292 (C)	105	91	112	123	104	89	76	86	132	107	113	115	95	107	84	103	103
13	DHM 121 (C)	105	93	97	75	104	68	74	84	111	107	109	118	85	81	80	93	93
	Mean	114.2	93.8	109.4	111.9	109.9	76.5	72.9	84.3	141.6	106.6	114.6	117.9	92.3	100.6	82.5	101.9	101.9
	CV (%)	5.2	1.7	10.5	11.4	6.3	14.4	5.1	8.7	7.1	2.7	3.5	4.4	11.4	17.2	6.8	8.6	8.6
	F (Prob)	0.0	0.2	0.3	0.0	0.3	0.0	0.1	0.6	0.0	0.2	0.0	0.7	0.8	0.0	0.2	0.0	0.0
	CD (5%)	10.0	2.7	19.3	21.5	11.7	18.6	6.3	12.3	17.0	4.8	6.7	8.7	17.7	29.2	9.4	3.7	3.7
	CD (1%)	13.6	3.6	26.1	29.1	15.9	25.2	8.6	16.7	23.1	6.5	9.1	11.8	24.0	39.6	12.7	4.8	4.8

Table No. : 17 (Conti...)

Ear height (cm)

S. No.	Entry Name	PZ																All India
		BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NIPH	PARB	PEDD	RAHU	RAIC	VRDC	VAGA	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH 1511	107	113	69	108	104	69	63	106	94	102	130	131	126	45	76	100	100
2	DKC 9194	97	112	63	99	91	59	55	104	92	102	118	117	132	44	71	94	94
3	DKC 9198	105	130	80	117	109	77	65	112	98	104	120	124	115	69	85	103	103
4	HT 18607	103	114	69	106	92	66	67	103	94	104	103	115	135	44	67	96	96
5	INDAM 1122	101	120	62	112	88	60	68	112	95	101	115	124	123	38	75	97	97
6	JKMH 15303	83	110	66	121	90	53	65	109	96	103	103	111	131	54	66	93	93
7	JKMH1518	107	127	70	134	97	73	77	124	109	103	127	132	125	59	75	106	106
8	MM9309	90	113	55	106	85	53	53	100	94	99	107	111	128	38	57	89	89
9	SYN816604	89	110	56	105	87	49	52	110	94	101	93	111	118	42	65	88	88
10	ZH 161032	83	115	63	101	102	63	67	102	92	99	127	124	120	37	72	95	95
11	Bio 9544 (C)	95	107	63	101	97	62	65	95	92	96	100	113	123	58	74	92	92
12	CMH 08-292 (C)	102	119	67	121	97	84	65	118	104	108	132	144	148	61	85	107	107
13	DHM 121 (C)	86	110	70	102	95	67	73	107	90	99	90	109	125	49	67	92	92
	Mean	96.1	115.2	65.8	110.1	95.0	64.3	64.2	107.8	95.7	101.6	112.7	120.5	126.7	49.2	71.9	96.3	96.3
	CV (%)	7.8	6.5	9.0	5.9	11.2	16.6	18.1	6.0	6.1	5.4	8.1	4.8	12.0	21.0	6.7	8.9	8.9
	F (Prob)	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.0	0.0	0.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0
	CD (5%)	12.7	12.7	10.0	11.0	17.9	18.0	19.6	10.9	9.8	9.3	15.4	9.7	25.6	17.4	8.2	3.7	3.7
	CD (1%)	17.2	17.2	13.5	14.9	24.2	24.4	26.5	14.8	13.2	12.6	20.9	13.1	34.7	23.6	11.1	4.9	4.9

Table No. : 17 (Conti...)

Final Plant Stand (000/ha)

S. No.	Entry Name	PZ																All India
		BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NIPH	PARB	PEDD	RAHU	RAIC	VRDC	VAGA	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH 1511	78	66	74	73	78	76	76	62	81	78	80	64	78	70	60	73	73
2	DKC 9194	72	65	79	77	82	78	78	60	82	79	85	66	81	79	63	75	75
3	DKC 9198	79	65	74	77	83	75	75	54	82	78	84	62	73	82	61	74	74
4	HT 18607	75	66	75	76	78	77	79	54	82	80	77	63	79	74	57	73	73
5	INDAM 1122	74	66	76	76	78	78	75	56	82	78	82	65	79	83	56	74	74
6	JKMH 15303	78	66	81	74	79	74	76	62	82	78	83	63	80	86	60	75	75
7	JKMH1518	72	66	70	78	76	76	82	57	82	80	83	64	78	86	59	74	74
8	MM9309	70	66	75	75	72	76	77	63	82	79	83	64	72	84	56	73	73
9	SYN816604	72	66	73	76	74	71	80	56	82	80	85	66	74	75	55	72	72
10	ZH 161032	65	64	67	75	74	75	76	61	83	79	79	66	68	80	55	71	71
11	Bio 9544 (C)	80	66	78	76	78	79	81	56	82	79	84	64	77	83	54	74	74
12	CMH 08-292 (C)	70	63	78	77	72	77	82	59	82	79	80	63	77	78	59	73	73
13	DHM 121 (C)	73	65	68	76	72	71	79	61	82	78	78	64	72	67	56	71	71
	Mean	73.7	65.3	74.5	75.8	76.7	75.6	78.1	58.6	82.0	78.9	81.7	64.2	75.8	78.9	57.8	73.2	73.2
	CV (%)	6.3	1.7	9.3	3.0	5.6	3.9	5.5	9.7	0.8	2.0	3.5	3.7	8.4	14.1	6.5	6.6	6.6
	F (Prob)	0.0	0.1	0.4	0.4	0.1	0.1	0.4	0.5	0.3	0.7	0.0	0.7	0.5	0.6	0.1	0.0	0.0
	CD (5%)	7.9	1.9	11.6	3.8	7.2	4.9	7.2	9.6	1.1	2.6	4.8	4.0	10.8	18.8	6.3	2.0	2.0
	CD (1%)	10.7	2.5	15.8	5.1	9.8	6.7	9.7	13.0	1.4	3.6	6.5	5.5	14.6	25.4	8.5	2.6	2.6

Table No. : 17 (Conti...)

Moisture (%)

S. No.	Entry Name	PZ																All India
		BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NIPH	PARB	PEDD	RAHU	RAIC	VRDC	VAGA	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH 1511	15.6	15.5	10.7	14.0	21.5	20.3	16.4	15.5	18.1	26.3	17.2	18.6	17.8	13.1	14.3	17.0	17.0
2	DKC 9194	16.3	16.3	10.6	14.6	24.4	20.6	14.5	16.7	19.8	27.7	16.6	18.7	18.0	13.0	15.2	17.5	17.5
3	DKC 9198	16.4	16.8	11.8	15.0	22.7	18.3	16.6	15.0	18.1	27.6	17.3	19.3	17.9	13.2	14.6	17.4	17.4
4	HT 18607	19.2	16.6	15.1	14.2	23.8	19.6	16.9	15.9	18.4	26.6	19.5	18.4	18.6	12.9	14.5	18.0	18.0
5	INDAM 1122	18.3	16.2	13.0	14.4	23.8	20.9	15.7	17.0	18.3	26.7	20.9	18.7	18.7	12.6	14.8	18.0	18.0
6	JKMH 15303	17.1	16.6	13.5	14.6	22.2	19.9	18.1	16.1	19.5	27.0	20.2	18.3	18.3	13.2	14.7	17.9	17.9
7	JKMH1518	17.2	17.3	13.8	14.6	22.5	21.1	16.3	16.4	19.4	26.0	18.8	18.1	20.0	12.4	13.8	17.8	17.8
8	MM9309	18.0	16.0	12.4	15.1	20.2	19.0	16.2	15.8	17.9	27.9	16.8	18.2	18.9	12.4	13.7	17.2	17.2
9	SYN816604	19.4	16.3	13.4	14.5	21.0	18.8	16.0	15.9	21.1	27.9	18.4	18.8	17.3	12.9	14.8	17.8	17.8
10	ZH 161032	16.1	16.1	10.8	13.9	20.3	18.7	16.8	15.2	19.5	27.9	18.7	18.4	18.2	13.1	13.8	17.2	17.2
11	Bio 9544 (C)	15.5	16.2	12.7	14.5	23.4	19.3	16.9	15.8	19.9	26.1	18.6	19.0	18.6	12.8	15.0	17.6	17.6
12	CMH 08-292 (C)	16.3	16.9	11.1	14.9	21.2	18.6	17.2	15.0	19.0	27.5	17.6	18.6	16.8	13.0	14.0	17.2	17.2
13	DHM 121 (C)	14.7	16.6	11.1	14.9	21.8	18.2	17.2	15.3	18.7	26.5	18.9	18.9	18.1	12.9	15.0	17.2	17.2
	Mean	16.9	16.4	12.3	14.6	22.2	19.5	16.5	15.8	19.1	27.1	18.4	18.6	18.3	12.9	14.5	17.5	17.5
	CV (%)	4.9	3.7	10.2	3.7	5.4	6.9	4.9	3.4	8.8	4.0	3.6	3.5	8.2	4.5	4.2	5.7	5.7
	F (Prob)	0.0	0.2	0.0	0.3	0.0	0.2	0.0	0.0	0.6	0.2	0.0	0.7	0.6	0.8	0.1	0.0	0.0
	CD (5%)	1.4	1.0	2.1	0.9	2.0	2.3	1.4	0.9	2.8	1.8	1.1	1.1	2.5	1.0	1.0	0.4	0.4
	CD (1%)	1.9	1.4	2.9	1.2	2.8	3.1	1.9	1.2	3.9	2.4	1.5	1.5	3.4	1.3	1.4	0.5	0.5

Table No. : 17 (Conti...)

Days to 75% Dry husk

S. No.	Entry Name	PZ																All India
		BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NIPH	PARB	PEDD	RAHU	RAIC	VRDC	VAGA	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH 1511	89	95	100	116	90	90	95	99	96	102	84	100	83	117	97	97	97
2	DKC 9194	95	95	105	117	89	90	96	105	100	103	85	100	83	118	95	98	98
3	DKC 9198	97	97	99	120	92	88	100	105	99	102	87	105	84	116	97	99	99
4	HT 18607	96	96	102	116	91	88	97	101	100	102	84	100	86	118	98	98	98
5	INDAM 1122	91	95	101	117	91	90	100	105	99	101	84	103	83	117	99	98	98
6	JKMH 15303	96	96	101	119	91	89	100	102	98	101	86	101	87	117	98	99	99
7	JKMH1518	93	96	90	119	92	90	98	101	387	102	86	99	83	117	97	97	97
8	MM9309	92	94	99	121	89	89	95	98	99	101	83	100	83	115	96	97	97
9	SYN816604	97	97	98	118	89	89	97	101	99	101	86	100	82	118	97	98	98
10	ZH 161032	91	94	100	117	90	88	96	96	97	102	83	101	84	115	96	97	97
11	Bio 9544 (C)	95	94	99	120	90	88	96	100	99	102	86	104	83	115	96	98	98
12	CMH 08-292 (C)	92	93	96	119	90	88	97	96	95	101	83	99	84	116	95	96	96
13	DHM 121 (C)	92	95	102	118	90	88	100	97	97	101	85	101	85	119	96	98	98
	Mean	93.5	95.0	99.4	118.1	90.3	88.9	97.4	100.5	120.3	101.7	84.7	101.1	83.9	116.6	96.7	97.7	97.7
	CV (%)	3.6	0.8	5.5	2.7	1.5	1.9	1.7	4.9	115.5	1.0	1.1	2.1	2.6	1.2	1.1	2.7	2.7
	F (Prob)	0.1	0.0	0.3	0.7	0.1	0.8	0.0	0.3	0.5	0.7	0.0	0.0	0.3	0.0	0.0	0.0	0.0
	CD (5%)	5.6	1.3	9.2	5.4	2.2	2.9	2.9	8.3	234.2	1.6	1.6	3.5	3.7	2.3	1.8	1.1	1.1
	CD (1%)	7.6	1.7	12.4	7.3	3.0	3.9	3.9	11.3	317.4	2.2	2.2	4.8	5.0	3.1	2.5	1.5	1.5

Table No. : 17 (Conti...)

Days to 50% Anthesis

S. No.	Entry Name	PZ																All India
		BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NIPH	PARB	PEDD	RAHU	RAIC	VRDC	VAGA	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH 1511	55	54	59	58	55	53	53	58	65	49	49	59	46	72	53	56	56
2	DKC 9194	59	54	59	58	54	53	53	58	65	51	49	60	46	71	52	56	56
3	DKC 9198	57	55	61	59	57	52	58	59	66	47	52	59	50	71	54	57	57
4	HT 18607	59	55	61	59	56	51	54	60	66	51	50	59	47	70	54	57	57
5	INDAM 1122	59	54	60	59	56	53	60	57	64	49	49	59	46	71	55	57	57
6	JKMH 15303	58	55	60	58	56	52	59	59	66	51	51	60	49	71	54	57	57
7	JKMH1518	56	55	61	58	57	53	56	59	65	53	51	59	47	71	54	57	57
8	MM9309	55	53	58	59	54	51	53	58	64	49	48	56	46	69	52	55	55
9	SYN816604	57	56	61	58	54	52	55	59	66	51	52	59	47	71	53	57	57
10	ZH 161032	57	53	58	58	55	51	54	57	65	50	48	59	47	70	52	56	56
11	Bio 9544 (C)	55	52	59	59	55	51	54	58	66	50	52	58	47	69	52	56	56
12	CMH 08-292 (C)	55	51	57	57	55	51	55	57	64	49	47	59	46	70	52	55	55
13	DHM 121 (C)	58	54	60	59	55	51	57	60	65	50	50	60	48	73	53	57	57
	Mean	56.8	54.0	59.5	58.3	55.3	51.8	55.4	58.4	65.1	50.1	49.9	59.1	47.1	70.5	53.1	56.3	56.3
	CV (%)	3.9	1.5	1.9	2.1	2.4	3.5	3.1	1.7	1.4	3.4	2.0	1.2	3.6	1.5	2.2	2.4	2.4
	F (Prob)	0.2	0.0	0.0	0.7	0.1	0.7	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
	CD (5%)	3.8	1.4	1.9	2.0	2.2	3.1	2.9	1.7	1.5	2.9	1.7	1.2	2.8	1.8	1.9	0.6	0.6
	CD (1%)	5.1	1.9	2.6	2.7	3.0	4.2	3.9	2.3	2.0	3.9	2.3	1.6	3.9	2.5	2.6	0.7	0.7

Table No. : 17 (Conti...)

Days to 50% Silking

S. No.	Entry Name	PZ																All India
		BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NIPH	PARB	PEDD	RAHU	RAIC	VRDC	VAGA	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH 1511	57	57	59	62	57	55	55	59	68	57	51	61	48	74	56	58	58
2	DKC 9194	61	57	60	62	56	55	55	59	68	59	51	60	47	72	56	59	59
3	DKC 9198	60	58	62	63	59	53	60	61	69	56	54	61	49	72	57	60	60
4	HT 18607	60	58	63	62	59	53	56	61	69	59	52	61	50	72	57	59	59
5	INDAM 1122	61	57	62	62	58	55	62	60	69	58	51	61	48	73	59	60	60
6	JKMH 15303	60	59	62	62	58	54	61	61	69	58	53	62	51	73	58	60	60
7	JKMH1518	58	58	62	63	59	55	58	61	68	60	53	61	49	72	57	60	60
8	MM9309	57	56	60	62	56	54	56	60	67	57	50	58	48	70	56	58	58
9	SYN816604	60	59	62	63	57	54	57	61	69	59	53	61	50	73	57	60	60
10	ZH 161032	59	56	60	63	57	53	56	58	68	57	50	61	50	71	56	58	58
11	Bio 9544 (C)	57	56	62	63	57	53	56	60	68	58	53	60	49	70	55	58	58
12	CMH 08-292 (C)	57	54	58	61	57	53	57	58	67	57	49	61	49	72	56	58	58
13	DHM 121 (C)	60	57	63	62	57	53	59	61	68	57	52	61	51	75	56	60	60
	Mean	59.0	57.0	61.1	62.5	57.4	53.9	57.5	59.9	68.2	57.9	51.7	60.9	49.1	71.9	56.6	59.0	59.0
	CV (%)	4.1	1.3	2.1	2.0	2.4	3.2	3.0	2.5	1.4	2.9	1.8	1.3	4.3	1.4	1.9	2.5	2.5
	F (Prob)	0.3	0.0	0.0	0.7	0.1	0.7	0.0	0.2	0.1	0.2	0.0	0.0	0.7	0.0	0.0	0.0	0.0
	CD (5%)	4.1	1.2	2.2	2.1	2.4	2.9	2.9	2.5	1.6	2.8	1.6	1.4	3.6	1.7	1.9	0.6	0.6
	CD (1%)	5.5	1.6	3.0	2.8	3.2	3.9	3.9	3.4	2.1	3.8	2.2	1.9	4.8	2.3	2.5	0.8	0.8

Table No. : 17 (Conti...)

Plant height (cm)

S. No.	Entry Name	PZ																All India
		BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NIPH	PARB	PEDD	RAHU	RAIC	VRDC	VAGA	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH 1511	207	224	158	243	228	150	182	222	193	203	243	286	256	102	152	203	203
2	DKC 9194	189	224	149	231	204	136	162	222	192	202	223	269	247	114	157	195	195
3	DKC 9198	206	229	169	232	222	161	193	228	194	220	240	294	203	142	151	206	206
4	HT 18607	171	218	157	213	194	131	163	210	190	197	182	245	279	94	135	185	185
5	INDAM 1122	210	234	163	238	205	140	195	238	192	206	227	293	248	115	157	204	204
6	JKMH 15303	178	225	157	255	202	131	175	228	192	210	228	291	239	107	151	198	198
7	JKMH1518	203	236	154	254	211	152	185	251	214	204	232	297	264	115	142	208	208
8	MM9309	190	228	157	232	206	135	183	221	195	194	212	271	266	113	142	196	196
9	SYN816604	185	216	148	228	201	127	160	224	196	192	217	265	243	98	138	189	189
10	ZH 161032	179	228	147	224	216	145	175	211	195	209	240	277	237	101	162	196	196
11	Bio 9544 (C)	171	198	142	205	208	138	150	195	196	192	195	239	257	113	141	183	183
12	CMH 08-292 (C)	197	230	163	237	209	158	180	243	193	211	242	292	267	116	160	207	207
13	DHM 121 (C)	182	215	157	225	216	151	195	220	191	201	193	253	256	121	145	195	195
	Mean	189.9	223.4	155.5	232.2	209.4	142.9	176.8	224.1	194.6	203.2	221.0	274.7	250.8	111.6	148.6	197.2	197.2
	CV (%)	4.2	2.8	5.6	4.4	7.2	10.3	7.5	5.9	3.2	5.4	4.6	2.3	13.6	13.2	8.5	7.1	7.1
	F (Prob)	0.0	0.0	0.1	0.0	0.4	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.6	0.1	0.2	0.0	0.0
	CD (5%)	13.5	10.7	14.8	17.3	25.3	24.7	22.2	22.4	10.6	18.5	17.0	10.8	57.6	24.8	21.3	5.8	5.8
	CD (1%)	18.3	14.4	20.0	23.5	34.2	33.5	30.1	30.4	14.4	25.0	23.1	14.6	78.1	33.6	28.9	7.6	7.6

Table No. : 17 (Conti...)

Initial Plant stand

S. No.	Entry Name	PZ															All India
		BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NIPH	PARB	PEDD	RAHU	VRDC	VAGA	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH 1511	120	95	114	111	118	116	74	91	119	116	116	127	102	88	108	108
2	DKC 9194	120	94	116	117	119	118	76	87	119	117	119	132	120	93	111	111
3	DKC 9198	120	95	118	115	120	114	74	79	120	115	123	118	122	89	109	109
4	HT 18607	120	95	116	112	116	117	78	77	119	118	116	126	113	83	108	108
5	INDAM 1122	120	96	114	113	115	117	73	83	119	112	118	126	121	82	108	108
6	JKMH 15303	120	95	120	111	118	114	75	91	120	115	118	126	124	88	110	110
7	JKMH1518	120	96	114	114	116	116	80	84	119	117	122	120	124	87	109	109
8	MM9309	119	95	113	112	116	115	75	91	119	116	122	124	121	84	109	109
9	SYN816604	119	95	116	114	110	105	78	80	119	118	122	122	119	80	107	107
10	ZH 161032	115	94	109	113	117	113	74	90	120	116	119	125	119	83	108	108
11	Bio 9544 (C)	120	95	116	112	110	119	80	80	119	115	123	123	121	79	108	108
12	CMH 08-292 (C)	119	93	113	113	110	117	80	85	119	116	117	125	120	86	108	108
13	DHM 121 (C)	119	95	109	113	110	107	76	88	119	114	113	117	106	82	105	105
	Mean	119.3	95.0	114.5	113.0	115.0	114.4	76.3	85.1	119.3	115.7	119.0	124.1	117.9	84.9	108.1	108.1
	CV (%)	0.9	1.3	4.4	2.3	4.2	3.8	5.6	9.9	0.6	2.0	4.4	4.7	10.3	6.0	5.0	5.0
	F (Prob)	0.0	0.4	0.4	0.3	0.1	0.0	0.5	0.4	0.9	0.2	0.4	0.2	0.5	0.1	0.0	0.0
	CD (5%)	1.9	2.1	8.6	4.3	8.2	7.4	7.2	14.1	1.2	3.8	8.9	9.9	20.4	8.5	2.3	2.3
	CD (1%)	2.5	2.8	11.6	5.9	11.1	10.0	9.7	19.2	1.7	5.2	12.1	13.4	27.6	11.5	3.1	3.1

Table No. : 17 (Conti...)

Shelling (%)

S. No.	Entry Name	PZ																All India
		BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NIPH	PARB	PEDD	RAHU	RAIC	VRDC	VAGA	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH 1511	87	78	86	78	80	71	82	81	77	90	85	80	79	88	81	82	82
2	DKC 9194	85	80	87	77	80	70	81	84	69	82	86	81	80	86	82	81	81
3	DKC 9198	84	80	88	78	83	67	79	85	71	92	87	80	82	88	82	82	82
4	HT 18607	85	80	83	76	80	73	79	81	72	90	85	79	83	86	81	81	81
5	INDAM 1122	84	80	83	72	78	67	77	81	68	91	82	78	80	85	78	79	79
6	JKMH 15303	84	81	85	79	81	69	82	85	69	91	86	81	79	87	81	81	81
7	JKMH1518	86	81	87	76	80	73	85	85	68	92	85	81	78	85	80	81	81
8	MM9309	85	78	86	76	80	71	69	84	71	88	84	80	82	88	82	80	80
9	SYN816604	85	78	82	76	78	68	82	84	69	91	83	78	79	85	82	80	80
10	ZH 161032	84	81	86	78	81	70	79	84	71	90	85	81	78	87	80	81	81
11	Bio 9544 (C)	83	80	86	77	79	71	69	83	75	85	86	79	80	88	82	80	80
12	CMH 08-292 (C)	84	80	85	77	79	74	79	85	70	83	84	78	79	86	79	80	80
13	DHM 121 (C)	84	79	83	73	79	71	76	81	72	90	81	76	86	84	78	80	80
	Mean	84.5	79.8	85.1	76.4	79.9	70.5	78.5	83.4	70.9	88.9	84.5	79.3	80.5	86.4	80.6	80.6	80.6
	CV (%)	1.2	1.2	0.9	2.0	2.4	3.1	4.6	1.8	9.2	4.8	1.0	3.2	4.2	1.6	1.1	3.4	3.4
	F (Prob)	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.9	0.1	0.0	0.4	0.2	0.0	0.0	0.0	0.0
	CD (5%)	1.6	1.7	1.3	2.6	3.2	3.7	6.1	2.5	10.9	7.1	1.5	4.3	5.7	2.3	1.5	1.1	1.1
	CD (1%)	2.2	2.2	1.7	3.5	4.4	5.0	8.3	3.4	14.8	9.7	2.0	5.8	7.8	3.2	2.1	1.5	1.5

Table No. : 18 Trial No: 654 (Late Maturity, PZ) AVT-II

Yield (Kg/ha)

S. No.	Entry Name	PZ																								All India	
		BULD		COIM		DHAR		DHUL		HYDE		KARI		KOLH		MAND		PARB		PEDD		RAHU		RAIC		VRDC		PZ			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	ADV 1390064	8976	7	12011	3	9650	3	12200	3	11118	2	9298	3	6485	6	8868	3	13407	6	10287	3	12252	8	6791	2	6135	1	10112	2	10112	2
2	BLH 137	8407	9	10852	6	9294	4	11388	6	10319	5	8483	5	7845	2	8031	7	13214	7	9121	7	13447	3	4462	9	4256	9	9572	7	9572	7
3	JKMH-150375	11704	1	12740	1	5443	9	8686	9	8569	9	8130	7	7802	3	7656	9	13848	4	10880	1	14576	1	6462	4	4819	8	9708	5	9708	5
4	PM 18101L	9930	2	11055	4	10555	1	11617	4	9862	7	7825	8	7583	4	9563	2	13096	8	9913	5	12902	5	5557	7	6000	2	9955	3	9955	3
5	PM 18106L	9518	4	12023	2	9677	2	13382	1	10955	3	9336	2	7307	5	10364	1	14213	3	10414	2	14399	2	5957	6	5398	5	10629	1	10629	1
6	RASI 4992	9360	5	10016	7	7150	7	11538	5	11181	1	9780	1	7889	1	8834	4	13801	5	9957	4	12510	6	7168	1	5582	3	9932	4	9932	4
7	BIO 9682 (C)	9671	3	10918	5	7684	6	12663	2	10752	4	8400	6	6181	9	7921	8	14374	2	8366	9	11985	9	6467	3	5464	4	9615	6	9615	6
8	CMH 08-287 (C)	8691	8	9061	9	7148	8	10575	7	9094	8	4817	9	6218	8	8495	6	12522	9	9422	6	12278	7	6448	5	5030	6	8731	9	8731	9
9	NK 6240 (C)	9157	6	9753	8	8612	5	10104	8	9960	6	8601	4	6413	7	8829	5	14609	1	8542	8	12956	4	5218	8	4993	7	9396	8	9396	8
	Mean	9490.5	.	10936.5	.	8356.9	.	11350.3	.	10201.3	.	8296.8	.	7080.1	.	8729.1	.	13675.9	.	9655.6	.	13034.1	.	6059.0	.	5297.5	.	9738.8	.	9738.8	.
	CV (%)	11.2	.	10.7	.	13.8	.	10.0	.	5.8	.	9.6	.	15.4	.	14.4	.	7.6	.	6.7	.	9.1	.	15.1	.	21.8	.	10.5	.	10.5	.
	F (Prob)	0.1	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.3	.	0.3	.	0.3	.	0.0	.	0.1	.	0.1	.	0.6	.	0.0	.	0.0	.
	CD (5%)	1831.9	.	2024.6	.	1989.8	.	1972.1	.	1029.1	.	1376.0	.	1892.0	.	2175.4	.	1786.5	.	1122.2	.	2059.1	.	1579.1	.	2000.7	.	476.4	.	476.4	.
	CD (1%)	2524.0	.	2789.4	.	2741.6	.	2717.1	.	1417.9	.	1895.8	.	2606.7	.	2997.2	.	2461.4	.	1546.1	.	2837.0	.	2175.6	.	2756.5	.	628.4	.	628.4	.

Table No. : 18 (Conti...)

Gain in Yield (%) over BIO 9682 (Check)

S. No.	Entry Name	PZ																								All India	
		BULD		COIM		DHAR		DHUL		HYDE		KARI		KOLH		MAND		PARB		PEDD		RAHU		RAIC		VRDC		PZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADV 1390064	-7.19	7	10.00	3	25.59	3	-3.66	3	3.40	2	10.69	3	4.91	6	11.96	3	-6.72	6	22.97	3	2.23	8	5.02	2	12.27	1	5.17	2	5.17	2
2	BLH 137	-13.07	9	-0.61	6	20.95	4	-10.07	6	-4.03	5	0.98	5	26.92	2	1.38	7	-8.07	7	9.03	7	12.20	3	-30.99	9	-22.11	9	-0.45	7	-0.45	7
3	JKMH-150375	21.02	1	16.68	1	-29.17	9	-31.41	9	-20.31	9	-3.21	7	26.22	3	-3.35	9	-3.66	4	30.05	1	21.62	1	-0.07	4	-11.80	8	0.97	5	0.97	5
4	PM 18101L	2.67	2	1.25	4	37.37	1	-8.26	4	-8.28	7	-6.84	8	22.68	4	20.72	2	-8.89	8	18.50	5	7.66	5	-14.06	7	9.80	2	3.53	3	3.53	3
5	PM 18106L	-1.58	4	10.11	2	25.93	2	5.68	1	1.89	3	11.14	2	18.22	5	30.84	1	-1.12	3	24.48	2	20.15	2	-7.87	6	-1.21	5	10.54	1	10.54	1
6	RASI 4992	-3.22	5	-8.26	7	-6.95	7	-8.88	5	3.99	1	16.43	1	27.63	1	11.52	4	-3.98	5	19.02	4	4.38	6	10.84	1	2.16	3	3.30	4	3.30	4
7	BIO 9682 (C)	0.00	3	0.00	5	0.00	6	0.00	2	0.00	4	0.00	6	0.00	9	0.00	8	0.00	2	0.00	9	0.00	9	0.00	3	0.00	4	0.00	6	0.00	6
8	CMH 08-287 (C)	-10.13	8	-17.01	9	-6.98	8	-16.49	7	-15.42	8	-42.66	9	0.60	8	7.24	6	-12.88	9	12.63	6	2.44	7	-0.29	5	-7.95	6	-9.20	9	-9.20	9
9	NK 6240 (C)	-5.32	6	-10.67	8	12.08	5	-20.21	8	-7.37	6	2.40	4	3.75	7	11.46	5	1.64	1	2.11	8	8.10	4	-19.31	8	-8.62	7	-2.28	8	-2.28	8

Gain in Yield (%) over CMH 08-287 (Check)

S. No.	Entry Name	PZ																								All India	
		BULD		COIM		DHAR		DHUL		HYDE		KARI		KOLH		MAND		PARB		PEDD		RAHU		RAIC		VRDC		PZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADV 1390064	3.27	7	32.56	3	35.01	3	15.37	3	22.26	2	93.04	3	4.29	6	4.39	3	7.07	6	9.18	3	-0.21	8	5.33	2	21.96	1	15.82	2	15.82	2
2	BLH 137	-3.27	9	19.77	6	30.03	4	7.69	6	13.47	5	76.11	5	26.17	2	-5.47	7	5.53	7	-3.20	7	9.53	3	-30.79	9	-15.39	9	9.64	7	9.64	7
3	JKMH-150375	34.66	1	40.61	1	-23.85	9	-17.86	9	-5.77	9	68.79	7	25.47	3	-9.88	9	10.59	4	15.47	1	18.72	1	0.23	4	-4.19	8	11.20	5	11.20	5
4	PM 18101L	14.25	2	22.01	4	47.68	1	9.86	4	8.45	7	62.46	8	21.94	4	12.57	2	4.58	8	5.21	5	5.09	5	-13.81	7	19.28	2	14.02	3	14.02	3
5	PM 18106L	9.51	4	32.69	2	35.38	2	26.55	1	20.47	3	93.82	2	17.51	5	22.00	1	13.50	3	10.53	2	17.28	2	-7.60	6	7.32	5	21.74	1	21.74	1
6	RASI 4992	7.70	5	10.54	7	0.03	7	9.11	5	22.95	1	103.04	1	26.87	1	3.99	4	10.21	5	5.68	4	1.89	6	11.17	1	10.97	3	13.76	4	13.76	4
7	BIO 9682 (C)	11.28	3	20.50	5	7.51	6	19.75	2	18.24	4	74.39	6	-0.60	9	-6.75	8	14.79	2	-11.21	9	-2.39	9	0.29	3	8.63	4	10.13	6	10.13	6
8	CMH 08-287 (C)	0.00	8	0.00	9	0.00	8	0.00	7	0.00	8	0.00	9	0.00	8	0.00	6	0.00	9	0.00	6	0.00	7	0.00	5	0.00	6	0.00	9	0.00	9
9	NK 6240 (C)	5.36	6	7.64	8	20.49	5	-4.45	8	9.52	6	78.57	4	3.13	7	3.93	5	16.67	1	-9.34	8	5.53	4	-19.07	8	-0.74	7	7.62	8	7.62	8

Gain in Yield (%) over NK 6240 (Check)

S. No.	Entry Name	PZ																								All India	
		BULD		COIM		DHAR		DHUL		HYDE		KARI		KOLH		MAND		PARB		PEDD		RAHU		RAIC		VRDC		PZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADV 1390064	-1.98	7	23.15	3	12.05	3	20.74	3	11.63	2	8.10	3	1.12	6	0.45	3	-8.23	6	20.43	3	-5.43	8	30.15	2	22.87	1	7.62	2	7.62	2
2	BLH 137	-8.19	9	11.27	6	7.91	4	12.71	6	3.60	5	-1.38	5	22.34	2	-9.04	7	-9.55	7	6.78	7	3.79	3	-14.48	9	-14.76	9	1.87	7	1.87	7
3	JKMH-150375	27.82	1	30.62	1	-36.80	9	-14.04	9	-13.97	9	-5.48	7	21.66	3	-13.29	9	-5.21	4	27.37	1	12.50	1	23.84	4	-3.48	8	3.32	5	3.32	5
4	PM 18101L	8.44	2	13.35	4	22.56	1	14.97	4	-0.98	7	-9.02	8	18.25	4	8.31	2	-10.36	8	16.05	5	-0.42	5	6.50	7	20.17	2	5.94	3	5.94	3
5	PM 18106L	3.95	4	23.27	2	12.36	2	32.44	1	9.99	3	8.54	2	13.95	5	17.39	1	-2.72	3	21.91	2	11.14	2	14.16	6	8.12	5	13.12	1	13.12	1
6	RASI 4992	2.22	5	2.69	7	-16.98	7	14.19	5	12.26	1	13.70	1	23.02	1	0.06	4	-5.53	5	16.57	4	-3.44	6	37.36	1	11.79	3	5.70	4	5.70	4
7	BIO 9682 (C)	5.62	3	11.95	5	-10.77	6	25.33	2	7.96	4	-2.34	6	-3.61	9	-10.28	8	-1.61	2	-2.07	9	-7.50	9	23.92	3	9.44	4	2.33	6	2.33	6
8	CMH 08-287 (C)	-5.08	8	-7.10	9	-17.00	8	4.66	7	-8.69	8	-44.00	9	-3.03	8	-3.78	6	-14.29	9	10.30	6	-5.24	7	23.56	5	0.74	6	-7.08	9	-7.08	9
9	NK 6240 (C)	0.00	6	0.00	8	0.00	5	0.00	8	0.00	6	0.00	4	0.00	7	0.00	5	0.00	1	0.00	8	0.00	4	0.00	8	0.00	7	0.00	8	0.00	8

Table No. : 18 (Conti...)

Number of cobs

S. No.	Entry Name	PZ															All India
		ARBH	BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	PARB	PEDD	RAHU	RAIC	VRDC	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 1390064	105	108	92	110	114	111	109	101	96	102	115	114	93	121	107	107
2	BLH 137	98	101	93	110	104	113	104	104	88	106	118	109	97	104	103	103
3	JKMH-150375	92	98	94	106	61	101	100	104	81	105	116	115	88	101	97	97
4	PM 18101L	103	105	92	101	101	103	99	103	109	103	118	113	84	117	104	104
5	PM 18106L	104	115	96	114	134	110	114	101	99	107	118	117	94	114	110	110
6	RASI 4992	105	111	90	109	103	114	113	108	97	103	118	114	94	106	106	106
7	BIO 9682 (C)	112	134	94	113	124	118	102	102	99	108	120	127	94	113	112	112
8	CMH 08-287 (C)	86	104	94	94	85	104	54	101	96	102	119	113	86	77	94	94
9	NK 6240 (C)	96	114	91	110	106	114	115	102	102	105	118	116	90	110	106	106
	Mean	100.0	110.0	92.9	107.3	103.4	109.9	101.2	102.9	96.2	104.5	117.9	115.3	91.3	107.2	104.3	104.3
	CV (%)	8.1	9.4	1.9	4.4	10.9	5.8	4.0	5.2	7.7	3.2	2.2	4.2	10.7	9.4	6.8	6.8
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.8	0.0	0.3	0.6	0.0	0.8	0.0	0.0	0.0
	CD (5%)	14.0	17.9	3.1	8.1	19.4	11.0	6.9	9.3	12.8	5.9	4.6	8.4	17.0	17.4	3.1	3.1
	CD (1%)	19.3	24.7	4.2	11.1	26.8	15.2	9.6	12.9	17.6	8.1	6.3	11.6	23.4	23.9	4.0	4.0

Ear height (cm)

S. No.	Entry Name	PZ															All India
		ARBH	BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	PARB	PEDD	RAHU	RAIC	VRDC	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 1390064	104	88	113	61	104	95	76	65	102	89	80	115	97	55	89	89
2	BLH 137	111	86	117	77	127	100	78	62	110	91	90	121	90	68	95	95
3	JKMH-150375	115	101	123	73	122	112	75	67	119	88	97	125	111	74	100	100
4	PM 18101L	97	90	123	64	113	88	66	48	98	89	102	111	109	69	90	90
5	PM 18106L	108	93	115	69	108	98	70	63	113	86	85	117	107	69	93	93
6	RASI 4992	94	79	110	60	99	85	64	60	99	86	65	107	93	42	82	82
7	BIO 9682 (C)	104	87	118	72	120	102	65	60	102	94	78	107	122	59	92	92
8	CMH 08-287 (C)	110	88	117	78	135	105	82	58	115	94	93	109	134	67	99	99
9	NK 6240 (C)	101	89	107	76	113	98	75	47	101	85	80	99	98	63	88	88
	Mean	104.7	89.0	115.9	69.8	115.7	98.1	72.4	58.9	106.6	89.1	85.6	112.4	106.7	63.0	92.0	92.0
	CV (%)	8.0	8.4	4.9	12.6	5.2	7.6	6.5	11.9	6.3	7.3	11.2	4.4	17.5	11.8	9.2	9.2
	F (Prob)	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.2	0.0	0.0	0.0
	CD (5%)	14.4	13.0	9.8	15.2	10.3	12.9	8.2	12.1	11.6	11.3	16.6	8.5	32.3	12.8	3.6	3.6
	CD (1%)	19.9	17.9	13.5	20.9	14.2	17.7	11.3	16.7	16.0	15.5	22.9	11.7	44.5	17.7	4.8	4.8

Table No. : 18 (Conti...)

Final plant stand

S. No.	Entry Name	PZ															All India
		ARBH	BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	PARB	PEDD	RAHU	RAIC	VRDC	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 1390064	71	72	63	74	76	77	76	72	71	73	82	62	79	83	74	74
2	BLH 137	68	69	65	76	75	78	72	75	62	73	84	57	81	79	72	72
3	JKMH-150375	62	67	65	70	75	70	69	75	66	76	83	64	80	78	72	72
4	PM 18101L	69	71	63	69	77	72	69	73	77	75	84	62	66	84	72	72
5	PM 18106L	71	77	66	77	76	77	79	72	70	78	85	64	79	83	75	75
6	RASI 4992	72	75	63	76	77	79	78	76	66	76	84	63	77	78	74	74
7	BIO 9682 (C)	72	78	66	72	77	82	71	73	73	78	85	63	78	78	75	75
8	CMH 08-287 (C)	57	71	65	69	76	72	38	72	69	73	85	62	74	56	67	67
9	NK 6240 (C)	66	77	64	75	78	79	79	74	73	77	84	63	77	79	75	75
	Mean	67.5	73.2	64.5	73.1	76.4	76.3	70.2	73.7	69.4	75.4	84.1	62.2	76.6	77.4	72.9	72.9
	CV (%)	6.5	8.2	2.2	6.5	2.5	5.9	4.2	5.2	11.4	3.1	2.3	4.2	5.0	7.9	5.9	5.9
	F (Prob)	0.0	0.4	0.1	0.3	0.8	0.1	0.0	0.9	0.5	0.1	0.8	0.1	0.0	0.0	0.0	0.0
	CD (5%)	7.6	10.4	2.4	8.3	3.2	7.7	5.1	6.6	13.8	4.1	3.3	4.5	6.6	10.6	1.9	1.9
	CD (1%)	10.5	14.4	3.3	11.4	4.5	10.7	7.0	9.1	18.9	5.6	4.6	6.2	9.1	14.6	2.4	2.4

Moisture (%)

S. No.	Entry Name	PZ															All India
		ARBH	BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	PARB	PEDD	RAHU	RAIC	VRDC	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 1390064	21.1	18.5	16.5	12.2	14.8	25.0	19.0	15.8	14.7	25.8	17.1	19.1	19.2	13.1	18.0	18.0
2	BLH 137	21.8	15.9	17.2	11.5	14.4	22.7	17.9	15.5	15.0	25.6	16.4	19.8	17.0	13.0	17.4	17.4
3	JKMH-150375	22.2	18.0	17.6	10.6	14.3	22.3	18.6	17.2	15.7	26.7	17.5	18.8	17.0	12.9	17.8	17.8
4	PM 18101L	20.3	14.6	17.0	12.1	14.4	23.4	19.4	17.4	15.1	26.8	16.1	20.5	16.8	13.3	17.6	17.6
5	PM 18106L	20.8	17.0	17.7	13.2	14.8	22.7	19.5	17.8	14.8	27.2	17.0	19.0	17.5	13.2	18.0	18.0
6	RASI 4992	22.5	16.7	16.1	12.5	14.9	23.6	19.7	16.8	15.9	27.2	14.9	18.8	18.3	12.8	17.9	17.9
7	BIO 9682 (C)	18.1	14.9	17.0	11.1	14.5	22.5	18.4	18.0	15.1	26.6	15.1	19.4	18.6	13.0	17.3	17.3
8	CMH 08-287 (C)	20.4	16.5	17.1	13.8	15.0	23.4	18.4	16.8	14.9	27.3	15.4	18.7	18.8	13.2	17.8	17.8
9	NK 6240 (C)	19.6	16.0	17.6	13.6	15.0	21.5	18.3	16.7	15.8	25.7	15.2	18.2	18.2	12.6	17.4	17.4
	Mean	20.7	16.5	17.1	12.3	14.7	23.0	18.8	16.8	15.2	26.5	16.1	19.1	17.9	13.0	17.7	17.7
	CV (%)	3.7	4.7	2.4	9.0	5.2	4.6	3.8	3.5	3.6	3.5	3.6	3.5	4.9	4.3	4.3	4.3
	F (Prob)	0.0	0.0	0.0	0.0	0.9	0.0	0.1	0.0	0.1	0.2	0.0	0.0	0.0	0.9	0.0	0.0
	CD (5%)	1.3	1.3	0.7	1.9	1.3	1.8	1.2	1.0	0.9	1.6	1.0	1.2	1.5	1.0	0.3	0.3
	CD (1%)	1.8	1.8	1.0	2.6	1.8	2.5	1.7	1.4	1.3	2.2	1.4	1.6	2.1	1.3	0.4	0.4

Table No. : 18 (Conti...)

Days to 75% Dry husk

S. No.	Entry Name	PZ															All India
		ARBH	BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	PARB	PEDD	RAHU	RAIC	VRDC	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 1390064	108	100	97	101	118	106	100	105	100	101	92	105	88	115	103	103
2	BLH 137	110	99	98	101	117	107	99	106	102	103	94	106	89	114	103	103
3	JKMH-150375	107	100	101	100	118	107	100	107	102	101	95	104	87	115	103	103
4	PM 18101L	104	93	98	101	121	107	100	108	105	100	94	107	88	113	103	103
5	PM 18106L	107	98	98	100	118	107	100	107	101	101	95	103	87	115	103	103
6	RASI 4992	109	88	98	100	119	108	101	105	100	102	94	104	88	114	102	102
7	BIO 9682 (C)	106	96	97	99	117	103	101	105	105	101	94	106	87	113	102	102
8	CMH 08-287 (C)	104	99	99	100	118	106	99	107	100	101	96	104	88	115	102	102
9	NK 6240 (C)	105	96	96	99	120	105	99	106	100	101	93	101	88	112	102	102
	Mean	106.6	96.6	97.9	100.0	118.4	106.3	100.0	106.2	101.7	101.3	93.9	104.4	87.7	113.6	102.5	102.5
	CV (%)	2.0	0.8	0.7	1.6	2.8	1.8	0.6	3.0	2.8	1.0	1.6	1.0	2.2	0.7	1.8	1.8
	F (Prob)	0.0	0.0	0.0	0.7	0.9	0.2	0.0	1.0	0.2	0.1	0.1	0.0	0.9	0.0	0.0	0.0
	CD (5%)	3.7	1.3	1.2	2.8	5.7	3.2	1.1	5.5	4.9	1.8	2.6	1.8	3.3	1.3	0.8	0.8
	CD (1%)	5.1	1.8	1.7	3.9	7.9	4.5	1.5	7.5	6.8	2.5	3.5	2.5	4.6	1.8	1.1	1.1

Days to 50% Anthesis

S. No.	Entry Name	PZ															All India
		ARBH	BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	PARB	PEDD	RAHU	RAIC	VRDC	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 1390064	59	61	54	62	58	56	55	62	59	46	50	60	51	69	57	57
2	BLH 137	60	61	55	62	58	57	56	61	59	46	51	60	53	71	58	58
3	JKMH-150375	63	60	56	61	57	57	57	64	59	48	53	60	51	71	58	58
4	PM 18101L	60	57	56	61	58	57	58	64	58	46	53	60	52	70	58	58
5	PM 18106L	59	55	55	62	58	56	57	63	59	49	54	60	49	72	58	58
6	RASI 4992	62	57	55	61	58	58	57	61	59	48	52	60	51	70	58	58
7	BIO 9682 (C)	58	51	54	60	58	54	58	61	58	47	52	60	49	69	56	56
8	CMH 08-287 (C)	59	58	55	62	58	58	56	63	59	47	54	60	51	70	58	58
9	NK 6240 (C)	68	54	52	61	59	54	56	61	57	49	51	59	50	69	57	57
	Mean	61.0	57.1	54.6	61.2	58.1	56.3	56.6	62.2	58.6	47.4	52.2	59.8	50.7	69.8	57.6	57.6
	CV (%)	10.9	1.5	1.1	2.3	3.9	3.1	1.0	5.3	1.6	4.2	2.5	1.0	3.8	0.9	4.1	4.1
	F (Prob)	0.8	0.0	0.0	0.7	1.0	0.1	0.0	0.9	0.0	0.4	0.0	0.3	0.5	0.0	0.0	0.0
	CD (5%)	11.5	1.5	1.0	2.4	3.9	3.0	1.0	5.7	1.6	3.5	2.3	1.0	3.3	1.0	1.0	1.0
	CD (1%)	15.9	2.0	1.4	3.3	5.4	4.2	1.3	7.9	2.2	4.8	3.1	1.4	4.6	1.4	1.3	1.3

Table No. : 18 (Conti...)

Days to 50% Silking

S. No.	Entry Name	PZ															All India
		ARBH	BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	PARB	PEDD	RAHU	RAIC	VRDC	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 1390064	61	63	57	64	62	58	58	64	61	55	52	62	54	70	60	60
2	BLH 137	62	63	58	63	62	59	59	63	61	56	53	62	56	72	61	61
3	JKMH-150375	83	62	60	63	62	59	59	65	61	58	55	62	54	72	63	63
4	PM 18101L	62	59	58	64	63	59	60	66	60	57	55	62	55	71	61	61
5	PM 18106L	62	57	58	63	62	59	59	65	60	60	56	61	52	73	60	60
6	RASI 4992	63	59	58	63	61	60	59	63	60	59	54	62	54	71	60	60
7	BIO 9682 (C)	61	53	57	62	62	56	60	63	60	56	54	62	52	71	59	59
8	CMH 08-287 (C)	62	60	58	64	62	58	59	65	61	56	56	62	54	72	61	61
9	NK 6240 (C)	60	59	55	62	62	57	59	63	58	58	53	61	53	71	59	59
	Mean	64.0	59.5	57.7	63.1	62.0	58.4	59.1	64.1	60.3	57.1	54.2	61.7	53.7	71.3	60.4	60.4
	CV (%)	9.5	3.3	1.3	2.1	2.9	3.3	0.8	5.2	1.8	4.4	2.2	1.0	3.7	0.8	3.8	3.8
	F (Prob)	0.0	0.0	0.0	0.4	1.0	0.3	0.0	0.9	0.0	0.3	0.0	0.1	0.4	0.0	0.0	0.0
	CD (5%)	10.5	3.4	1.3	2.3	3.1	3.4	0.8	5.8	1.9	4.3	2.0	1.1	3.4	1.0	1.0	1.0
	CD (1%)	14.4	4.6	1.8	3.2	4.3	4.6	1.1	7.9	2.6	5.9	2.8	1.5	4.7	1.3	1.3	1.3

Plant height (cm)

S. No.	Entry Name	PZ															All India
		ARBH	BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	PARB	PEDD	RAHU	RAIC	VRDC	PZ	
			Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 1390064	data not given	166	203	142	219	187	148	157	203	194	177	251	203	122	182	182
2	BLH 137		171	229	162	245	201	154	178	226	201	178	271	201	136	196	196
3	JKMH-150375		200	241	168	241	236	161	162	244	183	227	303	239	145	212	212
4	PM 18101L		187	221	149	221	199	157	152	217	195	197	263	227	145	195	195
5	PM 18106L		203	225	169	245	220	160	158	240	196	205	290	233	152	208	208
6	RASI 4992		150	218	144	221	199	140	157	206	197	165	258	208	128	184	184
7	BIO 9682 (C)		165	221	153	226	208	135	155	207	197	157	242	231	113	185	185
8	CMH 08-287 (C)		179	221	166	248	221	160	165	241	206	185	255	271	144	205	205
9	NK 6240 (C)		174	208	159	226	204	145	147	201	191	177	258	203	132	186	186
	Mean		177.1	220.6	156.8	232.5	208.5	151.1	158.9	220.6	195.5	185.2	265.7	223.8	135.1	194.7	194.7
	CV (%)		7.5	3.0	9.6	4.1	4.1	4.3	8.6	5.4	4.7	6.6	4.5	11.1	7.3	6.5	6.5
	F (Prob)		0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.1	0.0	0.0	0.0
	CD (5%)		23.0	11.4	25.9	16.4	14.9	11.2	23.8	20.8	15.8	21.2	20.9	42.9	17.1	5.6	5.6
	CD (1%)		31.7	15.7	35.7	22.6	20.5	15.4	32.7	28.6	21.7	29.3	28.7	59.2	23.5	7.4	7.4

Table No. : 18 (Conti...)

Initial Plant stand

S. No.	Entry Name	PZ														All India
		BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	PARB	PEDD	RAHU	RAIC	VRDC	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean		Mean	Mean	Mean
1	ADV 1390064	119	93	110	113	118	115	110	102	108	119	115	data	122	112	112
2	BLH 137	117	94	111	112	119	107	112	90	109	124	109	not	121	110	110
3	JKMH-150375	116	94	111	111	110	104	111	98	111	124	119	given	119	111	111
4	PM 18101L	119	93	105	114	112	103	110	108	111	123	115		121	111	111
5	PM 18106L	120	96	112	113	118	119	108	103	114	122	121		121	114	114
6	RASI 4992	120	92	112	113	117	117	114	96	111	121	119		121	113	113
7	BIO 9682 (C)	120	95	109	113	118	105	114	106	114	123	117		120	113	113
8	CMH 08-287 (C)	120	95	106	113	106	56	109	100	107	128	121		87	104	104
9	NK 6240 (C)	120	93	113	115	118	118	112	106	113	121	120		121	114	114
	Mean	119.0	93.8	109.9	113.0	115.0	104.8	111.1	101.0	111.0	122.7	117.3		117.2	111.3	111.3
	CV (%)	1.6	1.7	6.5	2.1	4.4	3.4	4.5	11.3	3.0	2.9	5.2		9.1	5.4	5.4
	F (Prob)	0.1	0.1	0.9	0.8	0.1	0.0	0.8	0.6	0.1	0.2	0.3		0.0	0.0	0.0
	CD (5%)	3.3	2.7	12.4	4.1	8.8	6.2	8.6	19.7	5.7	6.2	10.5		18.4	2.8	2.8
	CD (1%)	4.5	3.8	17.0	5.7	12.2	8.5	11.9	27.2	7.8	8.5	14.5		25.4	3.7	3.7

Shelling (%)

S. No.	Entry Name	PZ														All India
		BULD	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	PARB	PEDD	RAHU	RAIC	VRDC	PZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 1390064	83	82	90	80	81	81	77	85	88	86	80	76	90	83	83
2	BLH 137	81	80	83	69	76	78	79	80	89	83	80	75	84	80	80
3	JKMH-150375	84	80	87	67	81	80	80	86	90	87	80	79	87	82	82
4	PM 18101L	86	80	90	78	82	80	80	85	90	87	83	82	88	84	84
5	PM 18106L	86	80	85	70	81	77	81	87	91	85	80	79	84	82	82
6	RASI 4992	85	80	86	72	78	76	83	83	92	87	78	83	85	82	82
7	BIO 9682 (C)	86	79	85	70	77	76	79	81	88	86	79	88	84	81	81
8	CMH 08-287 (C)	83	79	84	72	78	78	78	81	88	85	76	75	82	80	80
9	NK 6240 (C)	84	80	86	73	78	77	77	83	90	87	80	77	85	81	81
	Mean	84.2	80.0	86.2	72.2	79.1	78.1	79.2	83.4	89.5	85.8	79.4	79.4	85.4	81.7	81.7
	CV (%)	1.5	1.8	0.7	3.7	1.8	1.3	2.4	1.9	1.0	0.6	3.4	9.1	1.0	3.1	3.1
	F (Prob)	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.0
	CD (5%)	2.1	2.5	1.0	4.6	2.5	1.7	3.3	2.8	1.6	0.8	4.7	12.4	1.5	1.1	1.1
	CD (1%)	2.9	3.4	1.4	6.4	3.5	2.3	4.5	3.8	2.2	1.1	6.5	17.1	2.0	1.5	1.5

Table No. : 19 **Trial No: 640 (Ealy Maturity, CWZ) AVT-I**

Yield (Kg/ha)

S. No.	Entry Name	CWZ																All India	
		AMBI		BANS		CHIN		CHIT		DAHO		GODH		KOTA		UDAI		CWZ			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	FH3861	9155	1	4377	2	8941	2	4485	3	7055	6	4728	5	2751	1	5103	3	6263	2	6263	2
2	FH3879	8860	3	4267	6	8640	4	3925	5	7184	5	4822	3	2519	5	5644	1	6192	4	6192	4
3	JH32014	7497	5	4210	7	8097	6	4523	1	6930	7	4756	4	2601	2	5050	4	5866	5	5866	5
4	JH32057	7481	6	4275	5	8767	3	3987	4	3808	8	4933	2	2361	8	4309	5	5366	6	5366	6
5	JH32094	8075	4	4489	1	8609	5	3222	8	8465	2	5437	1	2383	7	5377	2	6239	3	6239	3
6	BIO 605 (C)	5658	8	4301	3	7839	7	3529	7	7234	4	3248	8	2596	3	2250	8	4866	8	4866	8
7	DKC 7074 (C)	9016	2	4290	4	9070	1	3558	6	9934	1	4711	6	2465	6	4292	6	6410	1	6410	1
8	Vivek Hybrid 51 (C)	6021	7	4003	8	7690	8	4490	2	7276	3	3294	7	2539	4	2744	7	5074	7	5074	7
	Mean	7720.3	.	4276.5	.	8456.7	.	3964.8	.	7235.8	.	4491.2	.	2527.0	.	4346.2	.	5784.5	.	5784.5	.
	CV (%)	4.7	.	12.9	.	10.4	.	16.9	.	21.6	.	19.0	.	17.0	.	11.3	.	14.7	.	14.7	.
	F (Prob)	0.0	.	1.0	.	0.5	.	0.2	.	0.0	.	0.1	.	1.0	.	0.0	.	0.0	.	0.0	.
	CD (5%)	633.0	.	962.5	.	1539.5	.	1172.0	.	2730.6	.	1495.5	.	753.3	.	863.2	.	520.5	.	520.5	.
	CD (1%)	878.6	.	1335.9	.	2136.7	.	1626.7	.	3789.9	.	2075.7	.	1045.6	.	1198.1	.	689.0	.	689.0	.

Table No. : 19 (Conti...)

Gain in Yield (%) over BIO 605 (Check)

S. No.	Entry Name	CWZ																All India	
		AMBI		BANS		CHIN		CHIT		DAHO		GODH		KOTA		UDAI		CWZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	FH3861	61.81	1	1.76	2	14.05	2	27.09	3	-2.47	6	45.57	5	5.99	1	126.83	3	28.73	2	28.73	2
2	FH3879	56.58	3	-0.80	6	10.22	4	11.22	5	-0.70	5	48.46	3	-2.97	5	150.90	1	27.25	4	27.25	4
3	JH32014	32.50	5	-2.12	7	3.29	6	28.18	1	-4.20	7	46.43	4	0.21	2	124.47	4	20.57	5	20.57	5
4	JH32057	32.21	6	-0.62	5	11.83	3	12.98	4	-47.35	8	51.87	2	-9.06	8	91.54	5	10.28	6	10.28	6
5	JH32094	42.71	4	4.35	1	9.82	5	-8.69	8	17.02	2	67.39	1	-8.19	7	139.04	2	28.23	3	28.23	3
6	BIO 605 (C)	0.00	8	0.00	3	0.00	7	0.00	7	0.00	4	0.00	8	0.00	3	0.00	8	0.00	8	0.00	8
7	DKC 7074 (C)	59.35	2	-0.27	4	15.70	1	0.82	6	37.32	1	45.05	6	-5.05	6	90.81	6	31.74	1	31.74	1
8	Vivek Hybrid 51 (C)	6.41	7	-6.93	8	-1.91	8	27.23	2	0.59	3	1.40	7	-2.20	4	21.99	7	4.28	7	4.28	7

Gain in Yield (%) over DKC 7074 (Check)

S. No.	Entry Name	CWZ																All India	
		AMBI		BANS		CHIN		CHIT		DAHO		GODH		KOTA		UDAI		CWZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	FH3861	1.54	1	2.03	2	-1.42	2	26.06	3	-28.98	6	0.36	5	11.62	1	18.87	3	-2.29	2	-2.29	2
2	FH3879	-1.74	3	-0.54	6	-4.73	4	10.32	5	-27.68	5	2.36	3	2.19	5	31.49	1	-3.41	4	-3.41	4
3	JH32014	-16.85	5	-1.86	7	-10.72	6	27.14	1	-30.24	7	0.96	4	5.53	2	17.64	4	-8.48	5	-8.48	5
4	JH32057	-17.03	6	-0.35	5	-3.34	3	12.06	4	-61.66	8	4.70	2	-4.23	8	0.38	5	-16.29	6	-16.29	6
5	JH32094	-10.44	4	4.63	1	-5.08	5	-9.44	8	-14.78	2	15.40	1	-3.31	7	25.28	2	-2.67	3	-2.67	3
6	BIO 605 (C)	-37.24	8	0.27	3	-13.57	7	-0.82	7	-27.18	4	-31.06	8	5.31	3	-47.59	8	-24.10	8	-24.10	8
7	DKC 7074 (C)	0.00	2	0.00	4	0.00	1	0.00	6	0.00	1	0.00	6	0.00	6	0.00	6	0.00	1	0.00	1
8	Vivek Hybrid 51 (C)	-33.22	7	-6.69	8	-15.21	8	26.19	2	-26.75	3	-30.09	7	3.00	4	-36.07	7	-20.85	7	-20.85	7

Gain in Yield (%) over Vivek Hybrid 51 (Check)

S. No.	Entry Name	CWZ																All India	
		AMBI		BANS		CHIN		CHIT		DAHO		GODH		KOTA		UDAI		CWZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	FH3861	52.06	1	9.34	2	16.27	2	-0.10	3	-3.04	6	43.56	5	8.37	1	85.93	3	23.44	2	23.44	2
2	FH3879	47.15	3	6.59	6	12.36	4	-12.58	5	-1.28	5	46.42	3	-0.79	5	105.67	1	22.03	4	22.03	4
3	JH32014	24.52	5	5.17	7	5.30	6	0.75	1	-4.76	7	44.41	4	2.46	2	84.00	4	15.62	5	15.62	5
4	JH32057	24.25	6	6.79	5	14.01	3	-11.20	4	-47.66	8	49.77	2	-7.02	8	57.01	5	5.75	6	5.75	6
5	JH32094	34.11	4	12.13	1	11.96	5	-28.23	8	16.34	2	65.08	1	-6.13	7	95.95	2	22.96	3	22.96	3
6	BIO 605 (C)	-6.02	8	7.45	3	1.94	7	-21.40	7	-0.58	4	-1.38	8	2.25	3	-18.03	8	-4.11	8	-4.11	8
7	DKC 7074 (C)	49.75	2	7.16	4	17.94	1	-20.75	6	36.52	1	43.04	6	-2.91	6	56.41	6	26.33	1	26.33	1
8	Vivek Hybrid 51 (C)	0.00	7	0.00	8	0.00	8	0.00	2	0.00	3	0.00	7	0.00	4	0.00	7	0.00	7	0.00	7

Table No. : 19 (Conti...)

Number of cobs

S. No.	Entry Name	CWZ										All India
		AMBI	BANS	CHIN	CHIT	DAHO	GODH	KOTA	UDAI	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3861	72	56	73	71	67	73	71	67	112	74	74
2	FH3879	70	57	74	70	71	79	69	66	112	74	74
3	JH32014	64	56	66	76	58	74	71	62	111	71	71
4	JH32057	62	54	64	71	34	69	67	58	112	66	66
5	JH32094	66	58	66	72	63	71	71	69	111	72	72
6	BIO 605 (C)	52	55	61	73	61	51	68	40	111	64	64
7	DKC 7074 (C)	68	57	65	83	80	81	68	64	111	75	75
8	Vivek Hybrid 51 (C)	59	54	74	77	67	62	66	53	111	69	69
	Mean	64.1	55.9	68.0	74.3	62.3	70.0	68.9	59.9	111.5	70.5	70.5
	CV (%)	5.6	4.4	12.4	9.6	20.1	15.3	6.6	8.4	2.0	9.9	9.9
	F (Prob)	0.0	0.4	0.4	0.4	0.0	0.1	0.8	0.0	1.0	0.0	0.0
	CD (5%)	6.3	4.3	14.8	12.5	21.9	18.7	8.0	8.8	3.9	3.8	3.8
	CD (1%)	8.7	6.0	20.5	17.3	30.5	26.0	11.0	12.2	5.4	5.0	5.0

Ear height (cm)

S. No.	Entry Name	CWZ										All India
		AMBI	BANS	CHIN	CHIT	DAHO	GODH	KOTA	UDAI	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3861	98	83	76	70	97	87	76	80	75	82	82
2	FH3879	98	88	66	69	101	97	79	77	72	83	83
3	JH32014	109	92	88	70	108	107	82	97	86	93	93
4	JH32057	102	92	100	62	106	97	83	102	71	91	91
5	JH32094	111	83	92	66	112	90	76	98	74	89	89
6	BIO 605 (C)	99	92	93	63	103	87	81	88	76	87	87
7	DKC 7074 (C)	94	87	87	70	101	88	76	87	67	84	84
8	Vivek Hybrid 51 (C)	94	83	81	70	96	97	79	82	77	84	84
	Mean	100.6	87.5	85.4	67.3	103.1	93.5	79.0	88.8	74.8	86.7	86.7
	CV (%)	4.2	16.2	5.0	7.2	7.8	12.7	12.8	18.3	17.5	12.2	12.2
	F (Prob)	0.0	1.0	0.0	0.3	0.3	0.5	1.0	0.5	0.8	0.0	0.0
	CD (5%)	7.5	24.8	7.5	8.5	14.1	20.9	17.7	28.4	22.9	5.7	5.7
	CD (1%)	10.4	34.5	10.4	11.8	19.5	29.0	24.6	39.4	31.7	7.5	7.5

Final Plant Stand (000/ha)

S. No.	Entry Name	CWZ										All India
		AMBI	BANS	CHIN	CHIT	DAHO	GODH	KOTA	UDAI	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3861	77	58	78	71	83	55	74	69	62	70	70
2	FH3879	75	59	78	75	76	59	73	69	62	70	70
3	JH32014	70	59	75	68	83	56	74	66	61	68	68
4	JH32057	68	58	64	70	73	54	72	64	62	65	65
5	JH32094	73	61	72	72	83	53	74	68	61	69	69
6	BIO 605 (C)	65	58	63	73	83	40	73	49	61	63	63
7	DKC 7074 (C)	73	61	70	74	83	62	70	56	62	68	68
8	Vivek Hybrid 51 (C)	65	57	79	72	83	47	71	63	61	67	67
	Mean	70.8	58.8	72.6	71.9	81.2	53.2	72.4	62.9	61.6	67.3	67.3
	CV (%)	5.6	4.9	9.0	6.4	5.2	16.1	6.2	10.8	1.0	7.5	7.5
	F (Prob)	0.0	0.6	0.1	0.7	0.1	0.1	0.9	0.0	0.3	0.0	0.0
	CD (5%)	7.0	5.1	11.4	8.1	7.5	15.0	7.9	11.9	1.1	2.7	2.7
	CD (1%)	9.7	7.1	15.8	11.2	10.3	20.8	10.9	16.5	1.6	3.6	3.6

Moisture (%)

S. No.	Entry Name	CWZ									All India
		AMBI	BANS	CHIN	CHIT	DAHO	GODH	KOTA	UDAI	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3861	17	16	19	19	27	18	17	22	19	19
2	FH3879	18	16	19	21	28	20	17	22	20	20
3	JH32014	16	16	17	23	26	21	17	21	20	20
4	JH32057	17	16	16	20	28	19	16	21	19	19
5	JH32094	16	15	16	21	27	19	17	21	19	19
6	BIO 605 (C)	15	15	17	25	27	18	17	22	20	20
7	DKC 7074 (C)	16	16	18	25	26	20	17	23	20	20
8	Vivek Hybrid 51 (C)	15	16	15	19	25	18	16	22	18	18
	Mean	16.4	15.7	17.1	21.7	26.9	19.1	16.7	21.7	19.4	19.4
	CV (%)	4.1	1.9	7.0	14.9	6.4	5.2	2.4	0.0	7.4	7.4
	F (Prob)	0.0	0.0	0.0	0.3	0.4	0.0	0.3	0.0	0.0	0.0
	CD (5%)	1.2	0.5	2.1	5.7	3.0	1.8	0.7	0.0	0.8	0.8
	CD (1%)	1.6	0.7	2.9	7.9	4.2	2.4	1.0	0.0	1.1	1.1

Table No. : 19 (Conti...)

Days to 75% Dry husk

S. No.	Entry Name	CWZ										All India
		AMBI	BANS	CHIN	CHIT	DAHO	GODH	KOTA	UDAI	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3861	88	81	95	80	98	86	85	88	87	88	88
2	FH3879	91	83	96	80	99	85	86	91	87	89	89
3	JH32014	87	81	90	81	98	85	86	88	88	87	87
4	JH32057	89	82	96	81	99	87	85	90	87	88	88
5	JH32094	88	81	88	81	102	86	85	90	87	88	88
6	BIO 605 (C)	88	84	95	78	100	87	87	91	88	89	89
7	DKC 7074 (C)	91	80	93	81	97	86	84	90	88	88	88
8	Vivek Hybrid 51 (C)	83	81	86	81	97	84	84	87	88	86	86
	Mean	88.0	81.8	92.3	80.3	98.8	85.7	85.3	89.3	87.5	87.7	87.7
	CV (%)	1.3	2.2	2.4	3.3	2.1	2.6	2.0	1.2	0.5	2.1	2.1
	F (Prob)	0.0	0.4	0.0	0.8	0.1	0.7	0.3	0.0	0.3	0.0	0.0
	CD (5%)	1.9	3.2	3.8	4.6	3.7	3.9	2.9	1.8	0.8	1.0	1.0
	CD (1%)	2.7	4.5	5.3	6.4	5.1	5.4	4.1	2.5	1.1	1.3	1.3

Days to 50% Anthesis

S. No.	Entry Name	CWZ										All India
		AMBI	BANS	CHIN	CHIT	DAHO	GODH	KOTA	UDAI	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3861	48	47	56	53	43	49	51	47	44	49	49
2	FH3879	47	46	54	51	44	49	51	47	46	48	48
3	JH32014	48	46	53	53	42	48	50	47	44	48	48
4	JH32057	48	47	56	51	45	51	51	48	45	49	49
5	JH32094	47	46	54	53	48	49	49	48	44	49	49
6	BIO 605 (C)	47	49	56	50	45	50	53	47	44	49	49
7	DKC 7074 (C)	47	47	55	53	44	48	51	47	43	48	48
8	Vivek Hybrid 51 (C)	44	47	50	51	41	47	50	47	45	47	47
	Mean	47.1	46.9	54.3	52.0	44.0	49.0	50.8	47.2	44.5	48.4	48.4
	CV (%)	2.5	2.8	1.0	3.8	3.9	5.6	3.0	1.5	2.5	3.2	3.2
	F (Prob)	0.0	0.2	0.0	0.4	0.0	0.8	0.3	0.3	0.3	0.0	0.0
	CD (5%)	2.0	2.3	0.9	3.5	3.0	4.8	2.7	1.3	2.0	0.8	0.8
	CD (1%)	2.8	3.2	1.3	4.8	4.2	6.7	3.7	1.8	2.8	1.1	1.1

Days to 50% Silking

S. No.	Entry Name	CWZ										All India
		AMBI	BANS	CHIN	CHIT	DAHO	GODH	KOTA	UDAI	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3861	52	50	58	57	48	53	54	49	49	52	52
2	FH3879	50	49	56	56	47	53	54	49	49	51	51
3	JH32014	50	49	55	58	48	51	53	49	48	51	51
4	JH32057	50	49	57	56	50	54	53	50	49	52	52
5	JH32094	50	50	55	57	52	53	52	50	48	52	52
6	BIO 605 (C)	50	52	57	57	50	54	56	49	49	53	53
7	DKC 7074 (C)	50	50	57	56	47	52	54	49	49	52	52
8	Vivek Hybrid 51 (C)	47	46	50	57	45	51	53	48	49	50	50
	Mean	49.9	49.5	55.5	57.0	48.5	52.6	53.6	49.2	48.8	51.6	51.6
	CV (%)	2.2	5.1	1.6	2.9	3.2	5.5	2.7	2.0	1.3	3.3	3.3
	F (Prob)	0.0	0.4	0.0	0.8	0.0	0.9	0.4	0.6	0.2	0.0	0.0
	CD (5%)	1.9	4.4	1.5	2.9	2.7	5.1	2.6	1.7	1.1	0.9	0.9
	CD (1%)	2.7	6.1	2.1	4.0	3.8	7.1	3.6	2.4	1.5	1.2	1.2

Plant height (cm)

S. No.	Entry Name	CWZ										All India
		AMBI	BANS	CHIN	CHIT	DAHO	GODH	KOTA	UDAI	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3861	234	187	163	176	177	175	164	170	201	183	183
2	FH3879	247	185	168	182	185	187	163	172	179	185	185
3	JH32014	257	195	183	181	190	190	174	190	203	196	196
4	JH32057	249	195	199	185	191	170	172	200	187	194	194
5	JH32094	257	192	188	179	203	167	168	207	187	194	194
6	BIO 605 (C)	241	192	181	178	186	190	167	183	201	191	191
7	DKC 7074 (C)	227	188	165	187	181	177	166	180	185	184	184
8	Vivek Hybrid 51 (C)	225	187	166	177	170	190	165	158	200	182	182
	Mean	242.3	190.0	176.7	180.8	185.4	180.6	167.3	182.5	192.6	188.7	188.7
	CV (%)	4.9	5.9	3.1	3.8	4.7	8.3	6.8	12.3	9.9	7.2	7.2
	F (Prob)	0.0	0.9	0.0	0.5	0.0	0.4	0.9	0.2	0.7	0.0	0.0
	CD (5%)	20.7	19.5	9.5	12.1	15.3	26.4	19.8	39.4	33.3	7.3	7.3
	CD (1%)	28.7	27.0	13.1	16.8	21.2	36.6	27.5	54.7	46.2	9.6	9.6

Table No. : 19 (Conti...)		Plant stand										Shelling (%)										
S. No.	Entry Name	CWZ									All India	CWZ										All India
		AMBI	BANS	CHIN	CHIT	DAHO	GODH	KOTA	UDAI	CWZ		AMBI	BANS	CHIN	CHIT	DAHO	GODH	KOTA	UDAI	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	FH3861	77	60	75	72	80	81	75	69	74	74	79	79	86	71	84	86	77	77	79	80	80
2	FH3879	75	59	76	75	73	90	74	69	74	74	79	81	87	67	85	82	78	80	80	80	80
3	JH32014	71	61	73	69	80	86	74	66	72	72	80	80	91	73	86	85	78	77	78	81	81
4	JH32057	67	61	63	73	70	83	75	64	70	70	80	79	86	74	88	86	76	78	80	81	81
5	JH32094	73	62	69	74	80	81	74	69	73	73	79	80	87	71	84	86	77	79	79	80	80
6	BIO 605 (C)	65	59	62	74	80	61	76	49	66	66	79	80	86	71	87	79	78	75	79	79	79
7	DKC 7074 (C)	73	71	68	75	80	92	72	56	73	73	78	79	88	70	86	83	76	77	79	80	80
8	Vivek Hybrid 51 (C)	69	59	76	73	80	72	72	63	70	70	81	81	90	74	86	85	78	78	78	81	81
	Mean	71.4	61.5	70.3	73.1	77.9	80.8	74.0	63.2	71.5	71.5	79.4	79.7	87.6	71.2	85.7	83.9	77.4	77.4	79.2	80.2	80.2
	CV (%)	5.0	9.3	8.6	5.5	5.2	14.6	6.6	10.1	8.5	8.5	1.3	1.3	3.9	6.1	1.9	2.1	1.0	0.0	1.1	2.5	2.5
	F (Prob)	0.0	0.2	0.1	0.6	0.1	0.1	1.0	0.0	0.0	0.0	0.1	0.2	0.4	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	6.3	10.0	10.6	7.1	7.2	20.7	8.6	11.2	3.5	3.5	1.8	1.8	6.0	7.5	2.8	3.0	1.4	0.0	1.5	1.1	1.1
	CD (1%)	8.7	13.9	14.7	9.8	9.9	28.7	11.9	15.5	4.6	4.6	2.6	2.5	8.3	10.5	3.9	4.2	1.9	0.0	2.0	1.4	1.4

Table No. : 20 Trial No: 642 -(Medium Maturity, CWZ) AVT-I-II

Yield (Kg/ha)

S. No.	Entry Name	CWZ																		All India	
		AMBI		BANS		BHIL		CHIN		CHIT		DAHO		GODH		JAGD		KOTA		CWZ			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	BH416032	9554	5	4520	3	7780	1	9185	2	4461	9	7724	7	5485	3	7705	8	2999	3	7052	3	7052	3
2	BH416215	8681	7	4573	1	7457	3	8903	4	4652	8	9507	2	5219	4	9430	2	3119	1	7303	1	7303	1
3	BLH118	10087	2	3743	6	6507	7	7609	9	5316	2	8695	3	6005	1	7957	6	2431	8	6990	5	6990	5
4	LMH 1016	3458	10	2374	10	6256	8	5638	10	4871	6	7450	9	4600	9	5721	10	2466	7	5046	10	5046	10
5	MM9309	11213	1	4116	4	6184	9	9137	3	3893	10	8042	4	4990	6	8385	3	2617	5	6995	4	6995	4
6	RCRMH 2	10022	3	4570	2	6819	5	8898	5	5138	5	8025	5	4162	10	8051	4	3001	2	6960	6	6960	6
7	SYN816604	9739	4	3908	5	7546	2	9805	1	5156	4	7970	6	4974	7	7893	7	2516	6	7124	2	7124	2
8	BIO 9544 (C)	9450	6	2879	9	6764	6	7757	7	5843	1	7379	10	4873	8	9651	1	2118	10	6825	7	6825	7
9	CMH 08-292 (C)	8414	8	3492	7	7115	4	8760	6	4811	7	7535	8	5104	5	7994	5	2963	4	6653	8	6653	8
10	DHM 121 (C)	7649	9	3471	8	5852	10	7733	8	5267	3	9799	1	5677	2	6651	9	2186	9	6512	9	6512	9
	Mean	8826.7	.	3764.6	.	6827.8	.	8342.5	.	4940.7	.	8212.6	.	5108.8	.	7943.8	.	2641.6	.	6745.9	.	6745.9	.
	CV (%)	7.7	.	15.5	.	19.3	.	12.1	.	15.3	.	28.9	.	18.0	.	10.9	.	14.0	.	17.7	.	17.7	.
	F (Prob)	0.0	.	0.0	.	0.7	.	0.0	.	0.2	.	0.9	.	0.5	.	0.0	.	0.0	.	0.0	.	0.0	.
	CD (5%)	1166.6	.	999.4	.	2256.9	.	1728.9	.	1300.3	.	4075.8	.	1578.1	.	1484.2	.	634.4	.	680.0	.	680.0	.
	CD (1%)	1598.3	.	1369.2	.	3092.1	.	2368.7	.	1781.5	.	5584.1	.	2162.1	.	2033.4	.	869.1	.	898.1	.	898.1	.

Gain in Yield (%) over DHM 121 (Check)

S. No.	Entry Name	CWZ																		All India	
		AMBI		BANS		BHIL		CHIN		CHIT		DAHO		GODH		JAGD		KOTA		CWZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	BH416032	24.90	5	30.24	3	32.95	1	18.78	2	-15.30	9	-21.18	7	-3.37	3	15.85	8	37.15	3	8.29	3	8.29	3
2	BH416215	13.49	7	31.77	1	27.44	3	15.13	4	-11.68	8	-2.98	2	-8.07	4	41.78	2	42.66	1	12.14	1	12.14	1
3	BLH118	31.87	2	7.85	6	11.20	7	-1.59	9	0.93	2	-11.27	3	5.78	1	19.64	6	11.18	8	7.34	5	7.34	5
4	LMH 1016	-54.80	10	-31.61	10	6.91	8	-27.09	10	-7.52	6	-23.97	9	-18.97	9	-13.98	10	12.81	7	-22.52	10	-22.52	10
5	MM9309	46.59	1	18.58	4	5.69	9	18.16	3	-26.09	10	-17.93	4	-12.10	6	26.06	3	19.68	5	7.41	4	7.41	4
6	RCRMH 2	31.01	3	31.68	2	16.52	5	15.07	5	-2.44	5	-18.10	5	-26.68	10	21.04	4	37.27	2	6.88	6	6.88	6
7	SYN816604	27.32	4	12.60	5	28.95	2	26.80	1	-2.11	4	-18.66	6	-12.39	7	18.67	7	15.08	6	9.39	2	9.39	2
8	BIO 9544 (C)	23.54	6	-17.04	9	15.59	6	0.32	7	10.95	1	-24.69	10	-14.16	8	45.10	1	-3.13	10	4.80	7	4.80	7
9	CMH 08-292 (C)	10.00	8	0.61	7	21.58	4	13.28	6	-8.65	7	-23.11	8	-10.08	5	20.18	5	35.54	4	2.16	8	2.16	8
10	DHM 121 (C)	0.00	9	0.00	8	0.00	10	0.00	8	0.00	3	0.00	1	0.00	2	0.00	9	0.00	9	0.00	9	0.00	9

Table No. : 20 (Conti...)

Gain in Yield (%) over BIO 9544 (Check)

S. No.	Entry Name	CWZ																		All India	
		AMBI		BANS		BHIL		CHIN		CHIT		DAHO		GODH		JAGD		KOTA		CWZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	BH416032	1.10	5	56.99	3	15.01	1	18.41	2	-23.65	9	4.66	7	12.56	3	-20.16	8	41.59	3	3.33	3	3.33	3
2	BH416215	-8.14	7	58.83	1	10.25	3	14.77	4	-20.39	8	28.83	2	7.09	4	-2.29	2	47.27	1	7.00	1	7.00	1
3	BLH118	6.74	2	30.00	6	-3.80	7	-1.90	9	-9.03	2	17.83	3	23.22	1	-17.55	6	14.78	8	2.42	5	2.42	5
4	LMH 1016	-63.41	10	-17.56	10	-7.51	8	-27.32	10	-16.64	6	0.96	9	-5.61	9	-40.72	10	16.46	7	-26.06	10	-26.06	10
5	MM9309	18.65	1	42.94	4	-8.57	9	17.79	3	-33.38	10	8.98	4	2.39	6	-13.12	3	23.55	5	2.49	4	2.49	4
6	RCRMH 2	6.05	3	58.72	2	0.81	5	14.71	5	-12.07	5	8.75	5	-14.59	10	-16.59	4	41.71	2	1.99	6	1.99	6
7	SYN816604	3.06	4	35.73	5	11.56	2	26.40	1	-11.77	4	8.00	6	2.06	7	-18.22	7	18.81	6	4.38	2	4.38	2
8	BIO 9544 (C)	0.00	6	0.00	9	0.00	6	0.00	7	0.00	1	0.00	10	0.00	8	0.00	1	0.00	10	0.00	7	0.00	7
9	CMH 08-292 (C)	-10.96	8	21.28	7	5.18	4	12.93	6	-17.67	7	2.10	8	4.75	5	-17.18	5	39.92	4	-2.52	8	-2.52	8
10	DHM 121 (C)	-19.06	9	20.54	8	-13.49	10	-0.31	8	-9.87	3	32.79	1	16.49	2	-31.08	9	3.23	9	-4.58	9	-4.58	9

Gain in Yield (%) over CMH 08-292 (Check)

S. No.	Entry Name	CWZ																		All India	
		AMBI		BANS		BHIL		CHIN		CHIT		DAHO		GODH		JAGD		KOTA		CWZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	BH416032	13.54	5	29.45	3	9.35	1	4.86	2	-7.27	9	2.51	7	7.46	3	-3.60	8	1.19	3	5.99	3	5.99	3
2	BH416215	3.17	7	30.97	1	4.82	3	1.63	4	-3.31	8	26.18	2	2.24	4	17.97	2	5.26	1	9.76	1	9.76	1
3	BLH118	19.88	2	7.19	6	-8.54	7	-13.13	9	10.49	2	15.40	3	17.64	1	-0.45	6	-17.97	8	5.06	5	5.06	5
4	LMH 1016	-58.91	10	-32.03	10	-12.07	8	-35.64	10	1.24	6	-1.12	9	-9.89	9	-28.43	10	-16.77	7	-24.16	10	-24.16	10
5	MM9309	33.26	1	17.86	4	-13.07	9	4.30	3	-19.09	10	6.74	4	-2.24	6	4.89	3	-11.70	5	5.14	4	5.14	4
6	RCRMH 2	19.10	3	30.87	2	-4.16	5	1.58	5	6.80	5	6.51	5	-18.46	10	0.71	4	1.28	2	4.62	6	4.62	6
7	SYN816604	15.74	4	11.91	5	6.06	2	11.93	1	7.16	4	5.78	6	-2.56	7	-1.26	7	-15.09	6	7.08	2	7.08	2
8	BIO 9544 (C)	12.31	6	-17.54	9	-4.93	6	-11.45	7	21.46	1	-2.06	10	-4.53	8	20.74	1	-28.53	10	2.58	7	2.58	7
9	CMH 08-292 (C)	0.00	8	0.00	7	0.00	4	0.00	6	0.00	7	0.00	8	0.00	5	0.00	5	0.00	4	0.00	8	0.00	8
10	DHM 121 (C)	-9.09	9	-0.61	8	-17.75	10	-11.72	8	9.47	3	30.05	1	11.21	2	-16.79	9	-26.22	9	-2.12	9	-2.12	9

Table No. : 20 (Conti...)

Number of cobs

S. No.	Entry Name	CWZ											All India
		AMBI	BANS	BHILO	CHIN	CHIT	DAHO	GODH	JAGD	KOTA	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BH416032	105	81	118	109	113	96	83	106	90	114	102	102
2	BH416215	99	72	112	98	107	114	73	118	93	114	100	100
3	BLH118	104	85	102	92	115	102	85	110	94	112	100	100
4	LMH 1016	36	58	100	49	115	81	71	66	85	112	77	77
5	MM9309	111	85	91	87	109	85	73	112	93	113	96	96
6	RCRMH 2	109	88	115	103	125	87	79	106	98	111	102	102
7	SYN816604	101	89	108	87	109	77	80	101	93	114	96	96
8	CMH 08-292 (C)	92	81	101	94	119	75	80	105	99	93	94	94
9	DHM 121 (C)	89	77	90	82	124	113	72	85	83	110	93	93
10	BIO 9544 (C)	94	76	107	98	110	86	74	113	96	114	97	97
	Mean	94.0	79.2	104.4	89.9	114.5	91.6	77.0	102.3	92.4	110.7	95.6	95.6
	CV (%)	6.2	12.2	11.5	12.6	7.2	27.5	14.7	6.8	6.4	9.3	12.1	12.1
	F (Prob)	0.0	0.0	0.1	0.0	0.2	0.5	0.8	0.0	0.1	0.4	0.0	0.0
	CD (5%)	10.1	16.5	20.5	19.4	14.1	43.2	19.4	11.9	10.2	17.6	5.9	5.9
	CD (1%)	13.8	22.7	28.1	26.6	19.3	59.2	26.6	16.2	13.9	24.1	7.8	7.8

Ear height (cm)

S. No.	Entry Name	CWZ											All India
		AMBI	BANS	BHILO	CHIN	CHIT	DAHO	GODH	JAGD	KOTA	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BH416032	96	88	111	104	79	507	93	62	79	92	89	89
2	BH416215	100	88	106	108	87	108	90	63	79	73	88	88
3	BLH118	97	98	96	101	80	107	87	58	86	75	86	86
4	LMH 1016	95	85	102	93	81	123	97	61	77	97	88	88
5	MM9309	99	85	91	83	79	120	98	64	75	78	84	84
6	RCRMH 2	101	97	111	93	82	109	100	59	88	80	90	90
7	SYN816604	84	83	93	101	66	125	93	57	76	78	82	82
8	CMH 08-292 (C)	115	92	117	113	99	110	105	64	79	94	97	97
9	DHM 121 (C)	92	92	89	97	82	114	87	60	82	83	85	85
10	BIO 9544 (C)	94	93	91	102	78	116	87	59	84	83	86	86
	Mean	97.3	90.2	100.8	99.5	81.4	153.9	93.7	60.7	80.6	83.3	87.5	87.5
	CV (%)	4.9	8.2	11.4	5.9	10.2	141.3	11.9	6.3	7.9	15.6	9.8	9.8
	F (Prob)	0.0	0.3	0.1	0.0	0.0	0.5	0.5	0.3	0.2	0.4	0.0	0.0
	CD (5%)	8.1	12.7	19.7	10.0	14.3	373.0	19.2	6.5	10.9	22.3	4.6	4.6
	CD (1%)	11.1	17.4	27.0	13.7	19.5	511.1	26.3	8.9	14.9	30.5	6.1	6.1

Table No. : 20 (Conti...)

Final Plant Stand (000/ha)

S. No.	Entry Name	CWZ											All India
		AMBI	BANS	BHILO	CHIN	CHIT	DAHO	GODH	JAGD	KOTA	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BH416032	75	57	74	76	72	74	60	96	64	63	71	71
2	BH416215	70	56	59	72	72	82	57	104	66	63	70	70
3	BLH118	74	58	60	66	72	76	63	100	66	61	70	70
4	LMH 1016	27	34	68	31	73	78	52	61	59	62	55	55
5	MM9309	79	59	61	68	73	61	55	100	65	62	68	68
6	RCRMH 2	77	61	60	78	73	68	60	96	69	62	70	70
7	SYN816604	73	65	69	58	71	60	59	92	63	62	67	67
8	CMH 08-292 (C)	66	56	61	68	72	60	59	95	69	62	67	67
9	DHM 121 (C)	64	55	56	63	74	80	53	77	59	61	64	64
10	BIO 9544 (C)	67	54	65	70	73	70	55	101	67	63	69	69
	Mean	67.2	55.5	63.3	64.8	72.5	71.0	57.3	92.1	64.9	62.2	67.1	67.1
	CV (%)	6.0	5.8	14.2	11.6	3.0	25.9	14.4	5.8	5.6	1.2	11.3	11.3
	F (Prob)	0.0	0.0	0.4	0.0	0.9	0.8	0.9	0.0	0.0	0.1	0.0	0.0
	CD (5%)	6.9	5.5	15.4	12.9	3.7	31.5	14.2	9.2	6.3	1.3	3.9	3.9
	CD (1%)	9.5	7.5	21.1	17.7	5.1	43.2	19.4	12.6	8.6	1.8	5.1	5.1

Moisture (%)

S. No.	Entry Name	CWZ										All India
		AMBI	BANS	BHILO	CHIN	CHIT	DAHO	GODH	JAGD	KOTA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BH416032	14.8	16.8	25.3	14.7	21.3	26.1	20.1	16.1	16.4	19.1	19.1
2	BH416215	14.7	17.6	25.5	15.3	19.8	26.0	19.8	15.4	16.5	19.0	19.0
3	BLH118	15.2	16.4	23.8	15.3	16.7	25.9	19.1	15.5	17.0	18.3	18.3
4	LMH 1016	13.6	16.4	24.2	19.1	16.4	25.5	17.8	15.6	17.4	18.4	18.4
5	MM9309	15.3	17.0	25.2	17.4	16.3	27.2	17.7	15.2	17.7	18.8	18.8
6	RCRMH 2	14.8	17.0	24.9	16.3	15.4	25.2	17.9	15.2	17.2	18.2	18.2
7	SYN816604	14.8	16.3	25.6	16.5	18.0	25.9	18.4	15.2	16.9	18.6	18.6
8	CMH 08-292 (C)	14.6	16.9	25.7	17.5	17.3	28.8	19.8	15.2	17.1	19.2	19.2
9	DHM 121 (C)	14.5	16.4	25.0	17.1	18.5	26.8	18.9	15.4	17.1	18.8	18.8
10	BIO 9544 (C)	14.7	16.5	25.7	15.1	16.5	27.8	17.8	15.2	16.7	18.4	18.4
	Mean	14.7	16.7	25.1	16.4	17.6	26.5	18.7	15.4	17.0	18.7	18.7
	CV (%)	4.4	1.6	4.2	9.4	16.9	18.8	7.3	2.9	1.4	11.2	11.2
	F (Prob)	0.2	0.0	0.4	0.1	0.4	1.0	0.2	0.3	0.0	0.7	0.7
	CD (5%)	1.1	0.5	1.8	2.7	5.1	8.6	2.3	0.8	0.4	1.1	1.1
	CD (1%)	1.5	0.6	2.5	3.6	7.0	11.7	3.2	1.1	0.5	1.5	1.5

Table No. : 20 (Conti...)

Days to 75% Dry husk

S. No.	Entry Name	CWZ											All India
		AMBI	BANS	BHILO	CHIN	CHIT	DAHO	GODH	JAGD	KOTA	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BH416032	93	84	85	94	88	97	89	95	90	92	91	91
2	BH416215	94	84	84	95	84	98	84	98	89	91	90	90
3	BLH118	96	85	87	96	86	99	86	100	90	92	92	92
4	LMH 1016	94	85	88	99	87	97	99	100	91	91	93	93
5	MM9309	95	86	84	98	84	100	88	101	90	91	92	92
6	RCRMH 2	93	85	84	97	90	98	91	95	90	91	92	92
7	SYN816604	97	85	86	100	87	100	104	103	90	91	94	94
8	CMH 08-292 (C)	92	86	85	96	89	99	89	95	90	92	91	91
9	DHM 121 (C)	92	86	86	95	88	100	87	99	91	91	91	91
10	BIO 9544 (C)	97	85	86	95	83	96	88	102	91	91	91	91
	Mean	94.2	85.0	85.5	96.5	86.6	98.4	90.5	98.8	90.2	91.3	91.7	91.7
	CV (%)	1.6	1.4	1.6	2.9	2.8	2.9	6.7	1.6	1.2	1.2	2.9	2.9
	F (Prob)	0.0	0.2	0.1	0.3	0.0	0.7	0.0	0.0	0.5	0.9	0.0	0.0
	CD (5%)	2.6	2.0	2.4	4.7	4.1	4.8	10.5	2.7	1.9	1.9	1.3	1.3
	CD (1%)	3.6	2.8	3.2	6.5	5.7	6.6	14.3	3.7	2.6	2.6	1.8	1.8

Days to 50% Anthesis

S. No.	Entry Name	CWZ											All India
		AMBI	BANS	BHILO	CHIN	CHIT	DAHO	GODH	JAGD	KOTA	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BH416032	51	50	50	56	55	50	53	58	55	52	53	53
2	BH416215	50	50	52	54	55	49	52	58	54	53	53	53
3	BLH118	51	52	54	57	59	53	52	60	55	52	54	54
4	LMH 1016	51	52	56	59	55	49	60	60	55	53	55	55
5	MM9309	52	52	50	55	55	51	51	60	55	52	53	53
6	RCRMH 2	51	51	55	55	59	49	55	59	54	52	54	54
7	SYN816604	51	52	52	59	57	52	62	62	55	51	55	55
8	CMH 08-292 (C)	51	51	53	55	56	50	54	58	55	52	54	54
9	DHM 121 (C)	50	52	52	59	56	51	50	62	55	53	54	54
10	BIO 9544 (C)	51	51	54	57	57	48	54	61	55	52	54	54
	Mean	50.8	51.1	52.8	56.7	56.4	50.0	54.4	59.8	54.9	52.3	53.9	53.9
	CV (%)	2.3	2.5	4.7	2.0	4.9	6.0	8.2	1.5	2.0	1.8	4.1	4.1
	F (Prob)	0.9	0.5	0.1	0.0	0.4	0.5	0.1	0.0	0.6	0.4	0.0	0.0
	CD (5%)	2.0	2.2	4.3	1.9	4.7	5.1	7.6	1.5	1.9	1.6	1.1	1.1
	CD (1%)	2.8	2.9	5.8	2.6	6.5	7.0	10.4	2.0	2.6	2.2	1.5	1.5

Table No. : 20 (Conti...)

Days to 50% Silking

S. No.	Entry Name	CWZ											All India
		AMBI	BANS	BHILO	CHIN	CHIT	DAHO	GODH	JAGD	KOTA	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BH416032	54	53	54	57	62	54	57	61	58	56	57	57
2	BH416215	53	53	56	54	61	53	55	61	57	57	56	56
3	BLH118	54	54	59	59	62	56	56	63	58	56	58	58
4	LMH 1016	54	54	60	59	63	52	64	64	58	57	59	59
5	MM9309	54	54	54	57	63	56	55	63	58	57	57	57
6	RCRMH 2	54	53	60	57	62	53	59	62	57	56	57	57
7	SYN816604	54	54	56	60	63	56	65	65	58	55	59	59
8	CMH 08-292 (C)	53	54	58	57	62	55	57	62	58	56	57	57
9	DHM 121 (C)	53	54	56	61	62	56	54	66	58	56	58	58
10	BIO 9544 (C)	54	54	59	58	62	52	58	65	58	56	58	58
	Mean	53.7	53.8	57.3	57.9	62.4	54.3	58.1	63.3	57.9	56.2	57.5	57.5
	CV (%)	2.3	1.9	4.6	1.9	4.7	6.1	7.5	1.8	1.8	1.6	4.0	4.0
	F (Prob)	1.0	0.4	0.1	0.0	1.0	0.6	0.1	0.0	0.5	0.5	0.0	0.0
	CD (5%)	2.1	1.7	4.5	1.9	5.1	5.7	7.4	1.9	1.8	1.5	1.2	1.2
	CD (1%)	2.9	2.4	6.2	2.6	6.9	7.8	10.2	2.6	2.4	2.1	1.5	1.5

Plant height (cm)

S. No.	Entry Name	CWZ											All India
		AMBI	BANS	BHILO	CHIN	CHIT	DAHO	GODH	JAGD	KOTA	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BH416032	252	192	219	204	215	200	178	190	169	217	204	204
2	BH416215	241	193	215	196	208	192	183	196	168	196	199	199
3	BLH118	232	188	181	177	188	195	177	170	163	189	186	186
4	LMH 1016	252	200	208	201	220	217	187	177	177	206	204	204
5	MM9309	253	197	190	198	209	209	187	174	172	216	201	201
6	RCRMH 2	263	207	222	204	223	196	183	180	186	199	206	206
7	SYN816604	224	180	183	203	190	213	192	162	158	193	190	190
8	CMH 08-292 (C)	274	208	225	218	219	199	190	195	175	208	211	211
9	DHM 121 (C)	237	190	181	192	217	204	170	168	167	192	192	192
10	BIO 9544 (C)	227	195	187	179	190	209	177	167	173	190	189	189
	Mean	245.5	195.0	201.1	197.3	207.8	203.5	182.3	178.1	170.7	200.7	198.2	198.2
	CV (%)	3.7	7.3	10.3	4.1	5.4	5.5	5.9	4.3	6.0	10.3	6.6	6.6
	F (Prob)	0.0	0.4	0.1	0.0	0.0	0.2	0.4	0.0	0.2	0.6	0.0	0.0
	CD (5%)	15.5	24.4	35.5	13.7	19.2	19.3	18.5	13.1	17.7	35.5	6.7	6.7
	CD (1%)	21.2	33.5	48.6	18.8	26.4	26.4	25.3	17.9	24.2	48.6	8.8	8.8

Table No. : 20 (Conti...)

Initial Plant stand

S. No.	Entry Name	CWZ									All India
		AMBI	BANS	CHIN	CHIT	DAHO	GODH	JAGD	KOTA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BH416032	109	91	110	109	107	90	117	98	104	104
2	BH416215	103	91	104	112	118	86	121	101	104	104
3	BLH118	110	90	94	108	110	93	115	98	102	102
4	LMH 1016	41	52	45	111	112	82	73	90	76	76
5	MM9309	116	91	99	111	88	82	119	100	101	101
6	RCRMH 2	113	97	112	112	98	89	118	106	106	106
7	SYN816604	108	96	85	111	87	87	109	96	97	97
8	CMH 08-292 (C)	99	87	99	111	87	88	111	105	98	98
9	DHM 121 (C)	94	85	91	115	115	81	95	91	96	96
10	BIO 9544 (C)	99	87	103	109	100	83	120	101	100	100
	Mean	99.0	86.6	94.2	111.0	102.2	86.1	109.8	98.4	98.4	98.4
	CV (%)	6.2	5.3	11.2	3.4	25.9	14.1	5.5	5.7	11.5	11.5
	F (Prob)	0.0	0.0	0.0	0.6	0.8	0.9	0.0	0.1	0.0	0.0
	CD (5%)	10.5	7.9	18.1	6.5	45.4	20.9	10.3	9.6	6.5	6.5
	CD (1%)	14.3	10.8	24.8	8.9	62.2	28.6	14.1	13.2	8.5	8.5

Shelling (%)

S. No.	Entry Name	CWZ											All India
		AMBI	BANS	BHILO	CHIN	CHIT	DAHO	GODH	JAGD	KOTA	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BH416032	77	80	77	85	72	86	84	74	78	79	79	79
2	BH416215	77	82	79	88	73	86	77	76	80	80	80	80
3	BLH118	79	79	78	85	74	86	82	76	77	80	80	80
4	LMH 1016	76	79	77	84	74	85	81	76	77	80	79	79
5	MM9309	79	82	73	88	67	83	79	75	80	79	79	79
6	RCRMH 2	79	82	76	88	71	86	81	75	80	81	80	80
7	SYN816604	77	81	75	86	73	87	79	74	79	81	79	79
8	CMH 08-292 (C)	79	78	78	85	69	86	86	75	76	81	79	79
9	DHM 121 (C)	78	81	73	86	70	85	81	75	78	81	79	79
10	BIO 9544 (C)	77	81	74	86	72	87	80	75	78	81	79	79
	Mean	77.8	80.5	75.8	86.0	71.6	85.7	81.1	75.1	78.2	80.5	79.2	79.2
	CV (%)	1.3	1.5	2.3	4.4	7.9	2.6	4.9	1.3	1.4	0.9	3.4	3.4
	F (Prob)	0.0	0.0	0.0	0.9	0.9	0.7	0.3	0.5	0.0	0.0	0.6	0.6
	CD (5%)	1.7	2.0	3.0	6.5	9.6	3.8	6.8	1.7	1.9	1.2	1.4	1.4
	CD (1%)	2.3	2.8	4.2	8.9	13.2	5.2	9.3	2.3	2.6	1.7	1.8	1.8

Table No. : 21 Trial No: 641 (Late Maturity, CWZ) AVT-I-II

Yield (Kg/ha)

S. No.	Entry Name	Zone																		All India	
		AMBI		BANS		BHIL		CHIT		DAHO		GODH		JAGD		KOTA		UDAI		CWZ			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	PM 18101 L	9487	3	3576	7	5545	6	7355	5	6569	5	4101	6	9956	6	2728	4	4999	5	6448	6	6448	6
2	PM 18106 L	10012	2	4202	2	7777	1	7221	6	8936	2	4147	5	12956	1	2626	6	5008	4	7532	1	7532	1
3	BIO 9682 (C)	8873	4	3793	5	5593	5	8025	2	8830	3	3982	7	10841	4	2346	7	5713	2	6956	4	6956	4
4	CMH 08-282 (C)	8719	6	3828	4	6870	2	7102	7	7997	4	4358	3	12228	2	2777	2	6017	1	7140	3	7140	3
5	CMH 08-287 (C)	8760	5	4131	3	6592	3	8624	1	6567	6	4757	1	9237	7	2647	5	3518	7	6523	5	6523	5
6	NK 6240 (c)	10092	1	4382	1	5962	4	7444	4	10366	1	4528	2	11833	3	2803	1	5196	3	7475	2	7475	2
7	DHM 121 (F)	6973	7	3706	6	5320	7	7474	3	6360	7	4153	4	10031	5	2755	3	4234	6	6031	7	6031	7
	Mean	8988.0	.	3945.3	.	6236.9	.	7606.5	.	7946.5	.	4289.3	.	11011.7	.	2668.8	.	4955.0	.	6872.4	.	6872.4	.
	CV (%)	6.3	.	14.3	.	21.0	.	14.4	.	24.1	.	11.2	.	17.0	.	12.7	.	17.2	.	17.5	.	17.5	.
	F (Prob)	0.0	.	0.6	.	0.3	.	0.7	.	0.2	.	0.5	.	0.2	.	0.7	.	0.1	.	0.0	.	0.0	.
	CD (5%)	1004.3	.	1006.1	.	2326.2	.	1952.3	.	3402.8	.	857.4	.	3335.1	.	604.3	.	1513.6	.	688.2	.	688.2	.
	CD (1%)	1407.9	.	1410.5	.	3261.2	.	2737.0	.	4770.5	.	1202.1	.	4675.5	.	847.2	.	2121.9	.	911.1	.	911.1	.

Gain in Yield (%) over BIO 9682 (Check)

S. No.	Entry Name	CWZ																		All India	
		Ambi		Bans		Bhil		Chit		Daho		Godh		Jagd		Kota		Udai		CWZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	PM 18101 L	6.92	3	-5.71	7	-0.86	6	-8.36	5	-25.60	5	2.97	6	-8.17	6	16.28	4	-12.49	5	-7.30	6	-7.30	6
2	PM 18106 L	12.83	2	10.77	2	39.04	1	-10.03	6	1.20	2	4.13	5	19.51	1	11.93	6	-12.34	4	8.28	1	8.28	1
3	BIO 9682 (C)	0.00	4	0.00	5	0.00	5	0.00	2	0.00	3	0.00	7	0.00	4	0.00	7	0.00	2	0.00	4	0.00	4
4	CMH 08-282 (C)	-1.74	6	0.93	4	22.82	2	-11.50	7	-9.44	4	9.44	3	12.80	2	18.35	2	5.31	1	2.64	3	2.64	3
5	CMH 08-287 (C)	-1.28	5	8.91	3	17.85	3	7.46	1	-25.63	6	19.45	1	-14.79	7	12.81	5	-38.42	7	-6.23	5	-6.23	5
6	NK 6240 (C)	13.74	1	15.52	1	6.59	4	-7.24	4	17.39	1	13.69	2	9.15	3	19.48	1	-9.04	3	7.46	2	7.46	2
7	DHM 121 (F)	-21.42	7	-2.29	6	-4.88	7	-6.87	3	-27.98	7	4.28	4	-7.48	5	17.41	3	-25.89	6	-13.30	7	-13.30	7

Table No. : 21 (Conti...)

Gain in Yield (%) over CMH 08-282 (Check)

S. No.	Entry Name	CWZ																		All India	
		Ambi		Bans		Bhil		Chit		Daho		Godh		Jagd		Kota		Udai		CWZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	PM 18101 L	8.81	3	-6.57	7	-19.29	6	3.55	5	-17.85	5	-5.91	6	-18.59	6	-1.75	4	-16.91	5	-9.68	6	-9.68	6
2	PM 18106 L	14.83	2	9.75	2	13.20	1	1.67	6	11.75	2	-4.85	5	5.95	1	-5.42	6	-16.77	4	5.49	1	5.49	1
3	BIO 9682 (C)	1.77	4	-0.92	5	-18.58	5	13.00	2	10.42	3	-8.62	7	-11.35	4	-15.50	7	-5.05	2	-2.57	4	-2.57	4
4	CMH 08-282 (C)	0.00	6	0.00	4	0.00	2	0.00	7	0.00	4	0.00	3	0.00	2	0.00	2	0.00	1	0.00	3	0.00	3
5	CMH 08-287 (C)	0.47	5	7.91	3	-4.05	3	21.42	1	-17.88	6	9.15	1	-24.46	7	-4.68	5	-41.53	7	-8.64	5	-8.64	5
6	NK 6240 (C)	15.75	1	14.46	1	-13.21	4	4.81	4	29.62	1	3.89	2	-3.23	3	0.95	1	-13.63	3	4.70	2	4.70	2
7	DHM 121 (F)	-20.03	7	-3.19	6	-22.56	7	5.24	3	-20.47	7	-4.71	4	-17.97	5	-0.79	3	-29.63	6	-15.53	7	-15.53	7

Gain in Yield (%) over CMH 08-287 (Check)

S. No.	Entry Name	CWZ																		All India	
		Ambi		Bans		Bhil		Chit		Daho		Godh		Jagd		Kota		Udai		CWZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	PM 18101 L	8.30	3	-13.42	7	-15.88	6	-14.72	5	0.04	5	-13.80	6	7.78	6	3.07	4	42.11	5	-1.14	6	-1.14	6
2	PM 18106 L	14.29	2	1.71	2	17.98	1	-16.27	6	36.08	2	-12.83	5	40.25	1	-0.78	6	42.35	4	15.47	1	15.47	1
3	BIO 9682 (C)	1.29	4	-8.18	5	-15.15	5	-6.94	2	34.47	3	-16.28	7	17.36	4	-11.36	7	62.40	2	6.64	4	6.64	4
4	CMH 08-282 (C)	-0.47	6	-7.33	4	4.22	2	-17.64	7	21.78	4	-8.38	3	32.38	2	4.91	2	71.03	1	9.46	3	9.46	3
5	CMH 08-287 (C)	0.00	5	0.00	3	0.00	3	0.00	1	0.00	6	0.00	1	0.00	7	0.00	5	0.00	7	0.00	5	0.00	5
6	NK 6240 (C)	15.21	1	6.08	1	-9.55	4	-13.68	4	57.85	1	-4.82	2	28.11	3	5.91	1	47.71	3	14.60	2	14.60	2
7	DHM 121 (F)	-20.40	7	-10.29	6	-19.29	7	-13.33	3	-3.15	7	-12.69	4	8.59	5	4.07	3	20.35	6	-7.54	7	-7.54	7

Gain in Yield(%) over NK 6240 (Check)

S. No.	Entry Name	CWZ																		All India	
		Ambi		Bans		Bhil		Chit		Daho		Godh		Jagd		Kota		Udai		CWZ			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	PM 18101 L	-6.00	3	-18.38	7	-7.00	6	-1.20	5	-36.62	5	-9.44	6	-15.87	6	-2.68	4	-3.79	5	-13.74	6	-13.74	6
2	PM 18106 L	-0.80	2	-4.11	2	30.44	1	-3.00	6	-13.79	2	-8.42	5	9.48	1	-6.32	6	-3.63	4	0.76	1	0.76	1
3	BIO 9682 (C)	-12.08	4	-13.44	5	-6.19	5	7.81	2	-14.81	3	-12.04	7	-8.39	4	-16.30	7	9.94	2	-6.94	4	-6.94	4
4	CMH 08-282 (C)	-13.61	6	-12.63	4	15.23	2	-4.59	7	-22.85	4	-3.75	3	3.34	2	-0.95	2	15.79	1	-4.49	3	-4.49	3
5	CMH 08-287 (C)	-13.20	5	-5.73	3	10.56	3	15.85	1	-36.65	6	5.06	1	-21.94	7	-5.58	5	-32.30	7	-12.74	5	-12.74	5
6	NK 6240 (C)	0.00	1	0.00	1	0.00	4	0.00	4	0.00	1	0.00	2	0.00	3	0.00	1	0.00	3	0.00	2	0.00	2
7	DHM 121 (F)	-30.91	7	-15.42	6	-10.77	7	0.41	3	-38.65	7	-8.28	4	-15.24	5	-1.73	3	-18.52	6	-19.32	7	-19.32	7

Table No. : 21 (Conti...)

Nmber of cobs

S. No.	Entry Name	CWZ											All India
		AMBI	BANS	BHIL	CHIT	DAHO	GODH	JAGD	KOTA	UDAI	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	PM 18101 L	67	48	75	74	53	76	68	66	49	112	69	69
2	PM 18106 L	70	56	84	81	71	82	76	65	55	110	75	75
3	BIO 9682 (C)	65	60	82	75	67	93	73	69	58	109	75	75
4	CMH 08-282 (C)	62	52	84	69	64	77	72	69	60	107	72	72
5	CMH 08-287 (C)	63	55	73	80	43	75	64	64	41	110	67	67
6	NK 6240 (C)	72	55	76	81	74	78	73	65	60	110	74	74
7	DHM 121 (F)	55	48	78	69	45	65	63	66	52	111	65	65
	Mean	64.8	53.4	78.9	75.6	59.5	78.1	69.6	66.3	53.5	109.9	71.0	71.0
	CV (%)	5.4	10.5	13.3	14.4	18.4	13.1	8.8	5.2	15.9	2.0	10.8	10.8
	F (Prob)	0.0	0.2	0.7	0.7	0.0	0.1	0.2	0.6	0.2	0.2	0.0	0.0
	CD (5%)	6.3	10.0	18.6	19.4	19.5	18.3	10.9	6.1	15.1	3.9	3.9	3.9
	CD (1%)	8.8	14.0	26.1	27.1	27.4	25.6	15.3	8.6	21.2	5.5	5.2	5.2

Ear height (cm)

S. No.	Entry Name	CWZ											All India
		AMBI	BANS	BHIL	CHIT	DAHO	GODH	JAGD	KOTA	UDAI	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	PM 18101 L	105	85	78	80	122	70	63	76	90	91	86	86
2	PM 18106 L	105	85	83	72	119	73	69	76	97	94	87	87
3	BIO 9682 (C)	101	80	88	92	119	70	65	72	85	93	87	87
4	CMH 08-282 (C)	116	97	102	75	119	70	67	85	112	91	93	93
5	CMH 08-287 (C)	121	95	95	90	131	78	67	85	92	88	94	94
6	NK 6240 (C)	101	87	76	80	103	70	63	78	90	91	84	84
7	DHM 121 (F)	98	95	70	75	106	82	65	84	97	93	86	86
	Mean	106.6	89.1	84.6	80.7	117.0	73.3	65.6	79.7	94.5	91.5	88.2	88.2
	CV (%)	3.6	7.9	14.6	13.2	5.1	16.0	6.7	5.8	14.1	6.8	9.9	9.9
	F (Prob)	0.0	0.1	0.1	0.2	0.0	0.8	0.7	0.0	0.4	0.9	0.0	0.0
	CD (5%)	6.8	12.5	22.0	18.9	10.7	20.9	7.8	8.2	23.7	11.0	4.5	4.5
	CD (1%)	9.5	17.6	30.8	26.5	14.9	29.3	10.9	11.6	33.2	15.5	5.9	5.9

Table No. : 21 (Conti...)

Final Plant Stand (000/ha)

S. No.	Entry Name	CWZ											All India
		AMBI	BANS	BHIL	CHIT	DAHO	GODH	JAGD	KOTA	UDAI	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	PM 18101 L	74	50	79	73	69	55	103	70	55	61	69	69
2	PM 18106 L	77	58	79	73	83	61	112	69	61	61	73	73
3	BIO 9682 (C)	70	64	89	69	76	67	108	71	63	62	74	74
4	CMH 08-282 (C)	69	55	75	68	78	57	107	74	66	62	71	71
5	CMH 08-287 (C)	70	57	69	79	50	57	96	69	50	61	66	66
6	NK 6240 (C)	80	58	72	74	83	56	110	70	65	62	73	73
7	DHM 121 (F)	62	50	63	68	63	46	93	69	62	61	64	64
	Mean	71.7	55.9	75.2	71.9	71.9	56.9	104.2	70.1	60.3	61.5	70.0	70.0
	CV (%)	4.6	11.1	18.9	10.0	13.8	13.0	8.9	5.7	11.7	1.7	10.7	10.7
	F (Prob)	0.0	0.2	0.5	0.5	0.0	0.1	0.2	0.7	0.2	0.4	0.0	0.0
	CD (5%)	5.9	11.0	25.2	12.8	17.7	13.1	16.5	7.1	12.6	1.8	3.8	3.8
	CD (1%)	8.3	15.4	35.3	17.9	24.8	18.4	23.2	10.0	17.6	2.5	5.0	5.0

Moisture (%)

S. No.	Entry Name	CWZ										All India
		AMBI	BANS	BHIL	CHIT	DAHO	GODH	JAGD	KOTA	UDAI	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	PM 18101 L	14.6	16.9	24.4	19.3	32.0	18.9	15.2	16.9	21.0	19.9	19.9
2	PM 18106 L	14.3	16.8	24.9	19.1	29.5	19.7	15.3	16.8	21.9	19.8	19.8
3	BIO 9682 (C)	14.8	17.5	22.8	15.9	29.4	18.6	15.1	17.5	22.6	19.4	19.4
4	CMH 08-282 (C)	15.0	17.0	25.2	17.9	29.5	17.7	15.2	17.0	20.8	19.5	19.5
5	CMH 08-287 (C)	14.2	17.4	22.6	16.6	30.3	18.8	15.6	17.4	22.8	19.5	19.5
6	NK 6240 (C)	14.8	17.1	24.3	17.2	26.0	17.6	15.5	17.1	22.4	19.1	19.1
7	DHM 121 (F)	15.1	17.2	25.0	16.5	28.8	17.6	15.1	17.2	21.4	19.3	19.3
	Mean	14.7	17.1	24.2	17.5	29.4	18.4	15.3	17.1	21.8	19.5	19.5
	CV (%)	4.0	2.1	4.7	15.2	7.5	9.6	3.8	2.1	0.0	7.1	7.1
	F (Prob)	0.5	0.2	0.1	0.7	0.1	0.7	0.9	0.2	0.0	0.4	0.4
	CD (5%)	1.0	0.7	2.0	4.7	3.9	3.1	1.0	0.7	0.0	0.8	0.8
	CD (1%)	1.5	0.9	2.8	6.7	5.5	4.4	1.4	0.9	0.0	1.0	1.0

Table No. : 21 (Conti...)

Days to 75% Dry husk

S. No.	Entry Name	CWZ											All India
		AMBI	BANS	BHIL	CHIT	DAHO	GODH	JAGD	KOTA	UDAI	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	PM 18101 L	98	90	87	93	100	94	99	95	101	94	95	95
2	PM 18106 L	94	88	86	91	101	88	98	93	99	94	93	93
3	BIO 9682 (C)	99	89	88	90	101	88	100	94	101	94	94	94
4	CMH 08-282 (C)	94	88	86	91	99	87	94	93	98	94	92	92
5	CMH 08-287 (C)	93	88	87	91	102	89	96	94	99	94	93	93
6	NK 6240 (C)	93	88	86	90	100	85	95	94	98	94	92	92
7	DHM 121 (F)	96	87	87	92	101	91	98	92	99	93	94	94
	Mean	95.2	88.2	86.7	91.1	100.6	88.9	97.4	93.6	99.3	93.9	93.5	93.5
	CV (%)	1.7	1.3	1.3	2.8	2.5	7.9	1.8	1.2	0.8	1.0	2.8	2.8
	F (Prob)	0.0	0.3	0.4	0.9	0.7	0.8	0.0	0.1	0.0	0.8	0.0	0.0
	CD (5%)	2.8	2.1	2.1	4.5	4.4	12.5	3.1	2.0	1.4	1.7	1.3	1.3
	CD (1%)	3.9	3.0	2.9	6.3	6.2	17.6	4.3	2.8	1.9	2.4	1.8	1.8

Days to 50% Anthesis

S. No.	Entry Name	CWZ											All India
		AMBI	BANS	BHIL	CHIT	DAHO	GODH	JAGD	KOTA	UDAI	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	PM 18101 L	49	54	62	54	56	55	60	58	54	54	56	56
2	PM 18106 L	48	52	59	52	56	54	59	56	53	54	54	54
3	BIO 9682 (C)	47	53	58	55	54	52	60	57	53	55	54	54
4	CMH 08-282 (C)	48	51	54	53	52	51	56	55	51	54	53	53
5	CMH 08-287 (C)	48	53	60	52	54	55	59	56	54	54	54	54
6	NK 6240 (C)	47	51	54	52	47	49	57	55	53	53	52	52
7	DHM 121 (F)	49	51	56	53	51	54	59	54	54	54	54	54
	Mean	48.1	52.1	57.7	53.1	52.7	53.0	58.5	56.0	53.1	54.0	53.8	53.8
	CV (%)	2.4	2.7	5.6	4.5	4.0	14.2	2.7	3.0	1.9	1.3	5.2	5.2
	F (Prob)	0.2	0.1	0.1	0.7	0.0	1.0	0.1	0.1	0.1	0.3	0.0	0.0
	CD (5%)	2.0	2.5	5.7	4.3	3.8	13.4	2.8	3.0	1.7	1.3	1.4	1.4
	CD (1%)	2.8	3.5	8.0	6.0	5.3	18.8	4.0	4.2	2.4	1.8	1.9	1.9

Table No. : 21 (Conti...)

Days to 50% Silking

S. No.	Entry Name	CWZ											All India
		AMBI	BANS	BHIL	CHIT	DAHO	GODH	JAGD	KOTA	UDAI	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	PM 18101 L	52	57	67	60	60	59	63	61	55	60	59	59
2	PM 18106 L	51	55	64	58	60	58	62	59	55	58	58	58
3	BIO 9682 (C)	50	56	63	60	59	56	63	60	55	59	58	58
4	CMH 08-282 (C)	51	54	58	58	55	55	59	58	54	59	56	56
5	CMH 08-287 (C)	50	55	65	61	58	58	62	59	56	58	58	58
6	NK 6240 (C)	50	54	59	58	51	53	61	57	54	60	56	56
7	DHM 121 (F)	51	53	61	59	55	58	63	57	55	58	57	57
	Mean	50.8	54.9	62.3	59.0	56.9	56.6	61.8	58.8	54.9	58.8	57.5	57.5
	CV (%)	1.8	2.7	4.6	3.1	3.8	13.6	2.6	3.2	1.5	1.2	4.9	4.9
	F (Prob)	0.2	0.1	0.0	0.3	0.0	1.0	0.1	0.2	0.1	0.0	0.0	0.0
	CD (5%)	1.7	2.7	5.1	3.3	3.8	13.7	2.9	3.4	1.5	1.3	1.4	1.4
	CD (1%)	2.3	3.7	7.2	4.6	5.3	19.2	4.0	4.7	2.1	1.8	1.9	1.9

Plant height (cm)

S. No.	Entry Name	CWZ											All India
		AMBI	BANS	BHIL	CHIT	DAHO	GODH	JAGD	KOTA	UDAI	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	PM 18101 L	257	197	171	212	192	175	176	171	197	218	197	197
2	PM 18106 L	262	192	175	201	222	173	207	169	213	213	203	203
3	BIO 9682 (C)	245	170	183	228	201	170	198	146	187	227	196	196
4	CMH 08-282 (C)	269	212	197	216	214	170	205	189	217	220	211	211
5	CMH 08-287 (C)	284	197	190	201	220	178	203	173	207	219	207	207
6	NK 6240 (C)	244	193	161	198	193	165	184	171	183	223	191	191
7	DHM 121 (F)	228	205	153	219	200	182	180	182	198	224	197	197
	Mean	255.6	195.0	175.9	210.7	206.0	173.3	193.3	171.5	200.2	220.7	200.2	200.2
	CV (%)	4.1	4.5	13.8	8.2	4.6	6.5	7.4	5.5	9.3	5.0	7.2	7.2
	F (Prob)	0.0	0.0	0.4	0.3	0.0	0.6	0.1	0.0	0.3	0.8	0.0	0.0
	CD (5%)	18.5	15.8	43.2	30.9	16.7	19.9	25.6	16.8	33.3	19.5	7.3	7.3
	CD (1%)	26.0	22.1	60.6	43.3	23.5	27.9	35.9	23.6	46.7	27.4	9.7	9.7

Table No. : 21 (Conti...)

Plant stand

S. No.	Entry Name	CWZ										All India
		AMBI	BANS	BHIL	CHIT	DAHO	GODH	JAGD	KOTA	UDAI	CWZ	
		Mean	Mean		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	PM 18101 L	75	54		75	67	81	78	72	56	70	70
2	PM 18106 L	76	62		73	80	89	80	71	62	74	74
3	BIO 9682 (C)	70	63		72	73	99	79	72	63	74	74
4	CMH 08-282 (C)	70	61		69	75	85	75	77	66	72	72
5	CMH 08-287 (C)	71	59		80	48	84	72	70	51	67	67
6	NK 6240 (C)	79	60		73	80	83	80	71	66	74	74
7	DHM 121 (F)	63	52		70	60	70	70	72	62	65	65
	Mean	71.9	58.8		73.2	69.1	84.5	76.1	72.1	60.9	70.8	70.8
	CV (%)	4.5	9.7		8.9	13.8	13.0	6.9	5.0	11.1	9.5	9.5
	F (Prob)	0.0	0.3		0.5	0.0	0.2	0.2	0.4	0.2	0.0	0.0
	CD (5%)	5.8	10.2		11.6	17.0	19.5	9.4	6.4	12.0	3.9	3.9
	CD (1%)	8.1	14.3		16.2	23.8	27.4	13.1	9.0	16.8	5.1	5.1

Shelling (%)

S. No.	Entry Name	CWZ											All India
		AMBI	BANS	BHIL	CHIT	DAHO	GODH	JAGD	KOTA	UDAI	UJJA	CWZ	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	PM 18101 L	80	81	74	74	88	78	75	79	77	79	78	78
2	PM 18106 L	79	82	75	70	87	84	74	79	78	79	79	79
3	BIO 9682 (C)	76	82	71	74	85	79	73	80	80	80	78	78
4	CMH 08-282 (C)	78	80	78	69	86	81	74	78	79	80	78	78
5	CMH 08-287 (C)	79	81	74	68	85	81	74	79	77	79	78	78
6	NK 6240 (C)	77	81	68	70	87	81	73	78	79	78	77	77
7	DHM 121 (F)	77	80	69	73	83	86	75	77	76	79	78	78
	Mean	78.0	80.9	72.8	70.9	85.9	81.5	74.1	78.5	77.9	79.2	78.0	78.0
	CV (%)	0.9	0.9	3.8	7.3	2.0	3.4	1.6	0.9	0.0	1.7	2.8	2.8
	F (Prob)	0.0	0.0	0.0	0.6	0.1	0.1	0.2	0.0	0.0	0.6	0.2	0.2
	CD (5%)	1.2	1.3	5.0	9.2	3.1	4.9	2.1	1.2	0.0	2.3	1.1	1.1
	CD (1%)	1.7	1.9	7.0	12.8	4.3	6.9	3.0	1.7	0.0	3.3	1.5	1.5

Table No. : 22 **Trial No. 688 (QPM I-II-III)** **Yield Kg/ha**

S. No.	Entry Name	CWZ												NEPZ					
		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	APH 1 (PROA)	6185	16	3101	19	7101	7	4918	7	2695	21	5225	14	6618	18	6588	2	5617	12
2	APH 2 (PROA)	5399	20	3048	20	4872	22	4975	5	2432	23	4420	22	6191	22	5826	8	5617	13
3	APH3 (PROA)	7563	8	3603	12	7640	4	4938	6	5345	3	6372	4	8377	2	6165	5	6267	3
4	APQH 1 (QPM+PROA)	6116	18	3145	18	6474	15	4612	12	4862	6	5516	12	7592	10	6109	6	5659	11
5	APQH 8 (QPM+PROA)	6145	17	3768	8	6576	12	4005	19	3422	16	5037	17	7682	9	5595	11	4402	19
6	FQH 148	7459	9	3515	14	6777	11	3697	22	2937	19	5217	15	7926	7	5443	12	4374	21
7	IIMRQPMH 1705	8609	3	2721	23	8853	2	4493	14	5464	2	6855	2	8128	4	4926	16	4870	17
8	IIMRQPMH 1708	9449	1	3381	16	8093	3	4553	13	5622	1	6929	1	7760	8	5731	10	6325	2
9	IQPMH-18-2	7245	11	4082	4	7243	5	4860	9	4679	10	6007	8	7992	6	5802	9	5983	8
10	IQPMH-18-4	8097	5	3573	13	7226	6	4906	8	4499	11	6182	5	7476	11	6012	7	6266	4
11	IQPMH-19-1	8830	2	4092	3	9488	1	4034	18	4881	5	6808	3	7399	12	6272	3	5592	14
12	IQPMH-19-2	7877	7	3465	15	6923	9	4627	11	4774	8	6050	7	7292	13	5359	13	4982	16
13	IQPMH-19-3	4494	22	3648	10	6215	16	4301	17	3856	13	4716	20	6934	15	6766	1	5705	10
14	IQPMH-19-4	8253	4	3287	17	6997	8	3869	20	4095	12	5803	9	8333	3	4441	20	6491	1
15	QPM MH-51	6201	15	2783	22	5443	21	5526	2	2606	22	4944	19	6296	20	4608	18	5370	15
16	VEHQ 16-1	7341	10	4080	5	6530	13	4985	4	3599	15	5614	10	9470	1	6175	4	4647	18
17	Pratap QPM Hybrid (C)	6115	19	4436	1	6823	10	3597	23	4798	7	5333	13	6263	21	4232	23	6023	7
18	HQPM-1 (C)	6684	13	3889	6	6522	14	4393	15	4751	9	5587	11	5963	23	4315	21	5927	9
19	HQPM-5 (C)	7152	12	3829	7	5905	19	3785	21	3291	17	5033	18	6890	16	4811	17	6229	6
20	HQPM-7 (C)	8029	6	4154	2	6192	17	5535	1	4907	4	6166	6	6556	19	4286	22	6232	5
21	Vivek QPM 9 (C)	5254	21	3715	9	5579	20	4671	10	2722	20	4557	21	6683	17	5012	14	4087	22
22	PUSA HM8 IMPROVED (C)	6209	14	3620	11	6000	18	4386	16	3734	14	5082	16	8103	5	4495	19	4380	20
23	APQH 9 (C)	4481	23	3001	21	4028	23	5391	3	3169	18	4267	23	7115	14	4946	15	3477	23
	Location Mean	6921.0	.	3562.4	.	6673.9	.	4567.7	.	4049.5	.	5553.0	.	7349.5	.	5387.7	.	5414.0	.
	CV (%)	7.7	.	20.6	.	16.2	.	16.2	.	24.8	.	15.6	.	9.8	.	17.7	.	13.5	.
	F (Prob)	0.0	.	0.3	.	0.0	.	0.1	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.
	CD (5%)	873.9	.	1209.0	.	1776.1	.	1218.1	.	1652.4	.	698.1	.	1185.4	.	1564.8	.	1199.4	.
	CD (1%)	1167.4	.	1615.1	.	2372.6	.	1627.3	.	2207.4	.	921.2	.	1583.5	.	2090.4	.	1602.3	.

Table No. : 22 (Conti...) Yield Kg/ha

S. No.	Entry Name	NEPZ								NWPZ									
		DHOL		RANC		SABO		ZONE		IARI		KARN		LUDH		PANT		ZONE	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	APH 1 (PROA)	7003	5	5155	21	4661	13	6196	10	7162	6	7356	7	5697	12	8562	12	7194	9
2	APH 2 (PROA)	5862	15	5645	15	3550	23	5828	16	7286	5	7825	1	5196	20	8541	13	7212	8
3	APH3 (PROA)	6168	11	6280	6	3990	20	6651	3	8122	1	7178	11	5201	19	8010	18	7128	12
4	APQH 1 (QPM+PROA)	5806	16	5471	17	5288	7	6128	11	7918	3	7166	12	5547	17	8396	15	7257	7
5	APQH 8 (QPM+PROA)	5197	21	4817	22	4919	9	5539	18	6950	8	7193	10	6009	7	8471	14	7156	10
6	FQH 148	5449	19	5907	11	4818	11	5820	17	5957	21	6699	22	6335	5	9596	5	7147	11
7	IIMRQPMH 1705	5946	14	6569	3	6705	1	6088	13	7138	7	6748	21	7863	2	9830	2	7895	1
8	IIMRQPMH 1708	6619	7	5367	18	5187	8	6360	6	6489	12	6917	17	5632	14	8904	9	6986	17
9	IQPMH-18-2	6404	9	6698	2	5303	5	6576	4	6324	14	6862	18	5966	8	9205	6	7089	15
10	IQPMH-18-4	7081	4	6471	5	4677	12	6661	2	5920	23	7580	5	6943	3	7977	19	7105	13
11	IQPMH-19-1	6605	8	5164	20	4290	17	6206	9	6143	18	7562	6	7918	1	8916	8	7635	2
12	IQPMH-19-2	6684	6	6995	1	6604	2	6262	7	6037	20	7820	2	6303	6	8948	7	7277	5
13	IQPMH-19-3	6105	13	5735	12	4365	16	6249	8	5930	22	7340	8	3703	23	7816	20	6197	23
14	IQPMH-19-4	7386	2	5938	9	5300	6	6518	5	6459	13	6795	19	5797	10	7782	21	6708	20
15	QPM MH-51	5776	17	5630	16	4241	18	5536	19	6871	9	7047	14	5219	18	8303	16	6860	18
16	VEHQ 16-1	7090	3	6129	8	4832	10	6702	1	6192	16	7701	4	6419	4	9894	1	7552	4
17	Pratap QPM Hybrid (C)	5235	20	5240	19	5362	4	5399	22	6808	10	7035	15	5650	13	8787	11	7070	16
18	HQPM-1 (C)	5042	22	6205	7	4635	15	5490	20	7935	2	7014	16	4571	22	7398	23	6729	19
19	HQPM-5 (C)	6402	10	5697	14	4638	14	6006	14	6580	11	7814	3	5790	11	8893	10	7269	6
20	HQPM-7 (C)	6108	12	6530	4	6192	3	5942	15	6214	15	6751	20	5595	15	9808	3	7092	14
21	Vivek QPM 9 (C)	5604	18	5936	10	3869	21	5464	21	6098	19	6606	23	5552	16	7604	22	6465	22
22	PUSA HM8 IMPROVED (C)	7824	1	5705	13	4189	19	6101	12	7534	4	7224	9	5849	9	9616	4	7556	3
23	APQH 9 (C)	4674	23	4468	23	3809	22	4936	23	6170	17	7064	13	4811	21	8043	17	6522	21
	Location Mean	6177.0	.	5815.2	.	4844.6	.	6043.9	.	6706.0	.	7186.8	.	5807.1	.	8665.3	.	7091.3	.
	CV (%)	12.5	.	15.0	.	20.0	.	13.4	.	6.6	.	6.1	.	15.8	.	13.6	.	11.3	.
	F (Prob)	0.0	.	0.5	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.3	.	0.0	.
	CD (5%)	1271.5	.	1474.6	.	1596.3	.	609.5	.	726.0	.	716.5	.	1512.7	.	1932.1	.	647.3	.
	CD (1%)	1698.5	.	2004.2	.	2132.4	.	803.8	.	969.8	.	957.2	.	2020.7	.	2581.0	.	854.2	.

Table No. : 22 **(Conti...)** **Yield Kg/ha**

S. No.	Entry Name	PZ																		All India	
		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		VAGA		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	APH 1 (PROA)	7610	16	8095	8	6556	15	6408	16	5113	12	7971	14	6857	23	9538	8	9301	1	7749	18	6745	15
2	APH 2 (PROA)	7279	19	4646	23	5917	20	5689	21	3650	23	8716	5	7445	21	8585	15	8116	8	7392	20	6371	21
3	APH3 (PROA)	8646	5	7290	12	5918	19	7953	5	4724	17	8701	6	9592	11	8530	17	7621	16	8138	11	7211	6
4	APQH 1 (QPM+PROA)	9007	3	6675	17	6523	16	6981	13	6403	3	8487	8	10690	3	9239	10	9113	2	8577	4	7088	9
5	APQH 8 (QPM+PROA)	7948	12	5369	20	7315	12	6085	19	4706	18	6873	21	7612	19	8882	12	7002	23	7388	21	6409	20
6	FQH 148	8143	10	8016	9	6685	13	5923	20	3986	22	7561	17	8974	13	8579	16	8608	4	7782	17	6651	16
7	IIMRQPMH 1705	7741	15	8892	3	8500	3	8200	3	6230	5	8314	11	9825	8	8731	14	7377	18	8384	8	7406	2
8	IIMRQPMH 1708	8879	4	8484	5	7423	8	7456	8	6414	1	9311	2	10079	5	8305	19	7329	20	8397	7	7312	3
9	IQPMH-18-2	7926	13	7660	10	8208	4	7522	7	5289	11	7894	15	7405	22	9185	11	8603	5	8106	12	7100	7
10	IQPMH-18-4	7189	20	8563	4	5835	22	7373	9	4065	21	8404	9	10722	2	8757	13	7211	21	7927	15	7097	8
11	IQPMH-19-1	9303	2	9955	1	7847	7	8441	1	6412	2	8922	4	10308	4	8372	18	7032	22	8604	2	7451	1
12	IQPMH-19-2	7332	17	9391	2	7384	10	7544	6	5406	8	8695	7	7527	20	9516	9	7721	13	7960	14	7017	10
13	IQPMH-19-3	7773	14	8434	6	7962	6	6792	15	5357	10	8038	13	8518	14	10207	4	7344	19	8090	13	6577	18
14	IQPMH-19-4	8164	9	7074	13	8687	1	8225	2	4843	15	7322	20	9639	10	7566	23	7856	10	8209	10	7005	11
15	QPM MH-51	8374	7	4922	22	5905	21	6164	18	4865	14	7384	19	7899	18	9563	7	8296	7	7655	19	6424	19
16	VEHQ 16-1	9947	1	6879	15	6629	14	6349	17	4827	16	9201	3	9495	12	9901	6	8086	9	8515	5	7289	4
17	Pratap QPM Hybrid (C)	7282	18	8158	7	7979	5	6981	12	5461	6	8185	12	8435	15	7570	22	8624	3	7865	16	6583	17
18	HQPM-1 (C)	8066	11	6534	18	7395	9	6946	14	6397	4	7604	16	10875	1	10716	2	7770	12	8482	6	6805	14
19	HQPM-5 (C)	8621	6	7073	14	7327	11	7157	10	4942	13	7473	18	9672	9	11652	1	8298	6	8600	3	6972	12
20	HQPM-7 (C)	7118	21	6818	16	8575	2	8009	4	5384	9	9839	1	9970	6	10185	5	7833	11	8790	1	7214	5
21	Vivek QPM 9 (C)	6840	22	7501	11	6236	18	5139	22	5439	7	5907	23	8090	16	7908	21	7639	15	6823	22	5958	22
22	PUSA HM8 IMPROVED (C)	8304	8	5236	21	6244	17	7052	11	4305	20	8372	10	9968	7	10337	3	7684	14	8280	9	6951	13
23	APQH 9 (C)	6720	23	5496	19	5677	23	4824	23	4680	19	6519	22	7944	17	8161	20	7507	17	6765	23	5759	23
	Location Mean	8009.3	.	7267.8	.	7075.0	.	6922.2	.	5169.5	.	8073.6	.	9023.6	.	9129.7	.	7911.9	.	8020.8	.	6860.7	.
	CV (%)	9.3	.	21.8	.	12.7	.	7.5	.	23.9	.	9.4	.	11.3	.	12.6	.	11.7	.	11.0	.	12.3	.
	F (Prob)	0.0	.	0.0	.	0.0	.	0.0	.	0.2	.	0.0	.	0.0	.	0.0	.	0.2	.	0.0	.	0.0	.
	CD (5%)	1218.9	.	2604.3	.	1473.9	.	855.6	.	2031.6	.	1245.5	.	1679.7	.	1891.0	.	1524.4	.	534.1	.	306.9	.
	CD (1%)	1628.3	.	3479.0	.	1969.0	.	1142.9	.	2713.9	.	1663.8	.	2243.8	.	2526.2	.	2036.4	.	703.5	.	403.7	.

Table No. : 22 (Conti...) Gain in Yeild (%) over APQH 9 (C)

S. No.	Entry Name	CWZ										NEPZ					
		AMBI		BANS		CHIN		GODH		UDAI	ZONE	BHU		BAHA		BHUB	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	Gain	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	38.04	16	3.32	19	76.31	7	-8.77	7	-14.96	22.44	-6.99	18	33.19	2	61.58	12
2	APH 2 (PROA)	20.5	20	1.55	20	20.98	22	-7.72	5	-23.25	3.58	-13	22	17.78	8	61.56	13
3	APH3 (PROA)	68.79	8	20.06	12	89.71	4	-8.4	6	68.69	49.33	17.73	2	24.64	5	80.28	3
4	APQH 1 (QPM+PROA)	36.5	18	4.8	18	60.74	15	-14.45	12	53.43	29.27	6.7	10	23.51	6	62.78	11
5	APQH 8 (QPM+PROA)	37.15	17	25.56	8	63.29	12	-25.7	19	7.99	18.05	7.96	9	13.12	11	26.63	19
6	FQH 148	66.47	9	17.11	14	68.27	11	-31.43	22	-7.32	22.28	11.4	7	10.05	12	25.8	21
7	IIMRQPMH 1705	92.13	3	-9.35	23	119.81	2	-16.65	14	72.43	60.65	14.23	4	-0.41	16	40.08	17
8	IIMRQPMH 1708	110.9	1	12.67	16	100.94	3	-15.54	13	77.42	62.4	9.06	8	15.86	10	81.92	2
9	IQPMH-18-2	61.7	11	36	4	79.85	5	-9.84	9	47.66	40.78	12.32	6	17.3	9	72.09	8
10	IQPMH-18-4	80.71	5	19.05	13	79.42	6	-8.99	8	42	44.89	5.07	11	21.55	7	80.23	4
11	IQPMH-19-1	97.07	2	36.35	3	135.57	1	-25.18	18	54.06	59.56	3.99	12	26.79	3	60.86	14
12	IQPMH-19-2	75.8	7	15.46	15	71.9	9	-14.18	11	50.68	41.79	2.48	13	8.35	13	43.3	16
13	IQPMH-19-3	0.29	22	21.56	10	54.32	16	-20.23	17	21.68	10.53	-2.54	15	36.79	1	64.1	10
14	IQPMH-19-4	84.19	4	9.52	17	73.72	8	-28.23	20	29.23	36.01	17.12	3	-10.21	20	86.72	1
15	QPM MH-51	38.4	15	-7.27	22	35.14	21	2.5	2	-17.75	15.87	-11.52	20	-6.84	18	54.46	15
16	VEHQ 16-1	63.84	10	35.96	5	62.12	13	-7.53	4	13.59	31.56	33.09	1	24.84	4	33.68	18
17	Pratap QPM Hybrid (C)	36.48	19	47.82	1	69.41	10	-33.28	23	51.42	24.99	-11.98	21	-14.45	23	73.24	7
18	HQPM-1 (C)	49.17	13	29.59	6	61.94	14	-18.51	15	49.94	30.95	-16.2	23	-12.77	21	70.48	9
19	HQPM-5 (C)	59.61	12	27.58	7	46.61	19	-29.8	21	3.87	17.96	-3.16	16	-2.74	17	79.16	6
20	HQPM-7 (C)	79.21	6	38.4	2	53.75	17	2.68	1	54.85	44.51	-7.86	19	-13.34	22	79.25	5
21	Vivek QPM 9 (C)	17.27	21	23.77	9	38.53	20	-13.35	10	-14.1	6.79	-6.08	17	1.32	14	17.55	22
22	APQH 9 (C)	0	23	0	21	0	23	0	3	0	0	0	14	0	15	0	23
23	PUSA HM8 IMPROVED (C)	38.57	14	20.61	11	48.97	18	-18.65	16	17.84	19.1	13.88	5	-9.13	19	25.98	20

Table No. : 22 (Conti...)										Gain in Yeild (%) over APQH 9 (C)									
S. No.	Entry Name	NEPZ								NWPZ									
		DHOL		RANC		SABO		ZONE		IARI		KARN		LUDH		PANT		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	49.84	5	15.38	21	22.37	13	25.53	10	16.08	6	4.13	7	18.41	12	6.46	12	10.31	9
2	APH 2 (PROA)	25.42	15	26.36	15	-6.8	23	18.07	16	18.09	5	10.76	1	7.99	20	6.2	13	10.58	8
3	APH3 (PROA)	31.98	11	40.57	6	4.76	20	34.76	3	31.64	1	1.61	11	8.1	19	-0.4	18	9.29	12
4	APQH 1 (QPM+PROA)	24.23	16	22.46	17	38.83	7	24.14	11	28.34	3	1.43	12	15.29	17	4.4	15	11.26	7
5	APQH 8 (QPM+PROA)	11.2	21	7.81	22	29.14	9	12.21	18	12.65	8	1.82	10	24.89	7	5.32	14	9.72	10
6	FQH 148	16.59	19	32.21	11	26.49	11	17.91	17	-3.44	21	-5.17	22	31.68	5	19.31	5	9.58	11
7	IIMRQPMH 1705	27.22	14	47.04	3	76.01	1	23.34	13	15.69	7	-4.48	21	63.43	2	22.23	2	21.05	1
8	IIMRQPMH 1708	41.62	7	20.14	18	36.17	8	28.86	6	5.18	12	-2.09	17	17.05	14	10.71	9	7.11	17
9	IQPMH-18-2	37.02	9	49.92	2	39.23	5	33.22	4	2.5	14	-2.87	18	24	8	14.45	6	8.69	15
10	IQPMH-18-4	51.51	4	44.84	5	22.77	12	34.95	2	-4.04	23	7.29	5	44.32	3	-0.82	19	8.94	13
11	IQPMH-19-1	41.33	8	15.59	20	12.63	17	25.74	9	-0.43	18	7.04	6	64.57	1	10.86	8	17.06	2
12	IQPMH-19-2	43.01	6	56.57	1	73.37	2	26.87	7	-2.15	20	10.7	2	31	6	11.26	7	11.58	5
13	IQPMH-19-3	30.61	13	28.37	12	14.59	16	26.6	8	-3.89	22	3.89	8	-23.03	23	-2.81	20	-4.98	23
14	IQPMH-19-4	58.03	2	32.91	9	39.14	6	32.05	5	4.69	13	-3.82	19	20.49	10	-3.24	21	2.85	20
15	QPM MH-51	23.59	17	26.02	16	11.32	18	12.16	19	11.36	9	-0.25	14	8.49	18	3.23	16	5.18	18
16	VEHQ 16-1	51.71	3	37.19	8	26.84	10	35.79	1	0.36	16	9.01	4	33.41	4	23.02	1	15.79	4
17	Pratap QPM Hybrid (C)	12	20	17.3	19	40.76	4	9.37	22	10.34	10	-0.42	15	17.43	13	9.25	11	8.4	16
18	HQPM-1 (C)	7.87	22	38.88	7	21.69	15	11.23	20	28.61	2	-0.71	16	-4.99	22	-8.02	23	3.18	19
19	HQPM-5 (C)	36.98	10	27.52	14	21.76	14	21.68	14	6.64	11	10.62	3	20.35	11	10.57	10	11.46	6
20	HQPM-7 (C)	30.69	12	46.17	4	62.57	3	20.39	15	0.72	15	-4.43	20	16.28	15	21.95	3	8.74	14
21	Vivek QPM 9 (C)	19.9	18	32.86	10	1.58	21	10.7	21	-1.16	19	-6.48	23	15.4	16	-5.45	22	-0.87	22
22	APQH 9 (C)	0	23	0	23	0	22	0	23	0	17	0	13	0	21	0	17	0	21
23	PUSA HM8 IMPROVED (C)	67.41	1	27.7	13	9.96	19	23.61	12	22.11	4	2.26	9	21.56	9	19.56	4	15.85	3

Table No. : 22 (Conti...) Gain in Yeild (%) over APQH 9 (C)

S. No.	Entry Name	PZ																				All India	
		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		VAGA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	13.26	16	47.28	8	15.5	15	32.8	16	9.26	12	22.27	14	-13.7	23	16.9	8	23.9	1	15.3	13	17.1	14
2	APH 2 (PROA)	8.32	19	-15.5	23	4.21	20	17.9	21	-22	23	33.69	5	-6.28	21	5.19	15	8.11	8	7.88	21	9.66	21
3	APH3 (PROA)	28.67	5	32.64	12	4.24	19	64.9	5	0.95	17	33.46	6	20.74	11	4.53	17	1.52	16	14.9	14	21.6	8
4	APQH 1 (QPM+PROA)	34.04	3	21.46	17	14.9	16	44.7	13	36.84	3	30.17	8	34.56	3	13.2	10	21.4	2	22.2	6	21.3	10
5	APQH 8 (QPM+PROA)	18.28	12	-2.31	20	28.8	12	26.1	19	0.57	18	5.42	21	-4.19	19	8.84	12	-6.73	23	9.08	19	10.9	19
6	FQH 148	21.18	10	45.85	9	17.8	13	22.8	20	-14.8	22	15.98	17	12.96	13	5.12	16	14.7	4	11.7	17	13.7	17
7	IIMRQPMH 1705	15.2	15	61.8	3	49.7	3	70	3	33.14	5	27.53	11	23.68	8	6.98	14	-1.73	18	18.2	9	24.8	4
8	IIMRQPMH 1708	32.13	4	54.37	5	30.7	8	54.6	8	37.07	1	42.82	2	26.87	5	1.76	19	-2.37	20	16.5	12	22.5	6
9	IQPMH-18-2	17.96	13	39.37	10	44.6	4	55.9	7	13.03	11	21.09	15	-6.78	22	12.6	11	14.6	5	17.4	10	21.4	9
10	IQPMH-18-4	6.99	20	55.81	4	2.78	22	52.8	9	-13.1	21	28.92	9	34.97	2	7.3	13	-3.94	21	13.8	16	20.4	13
11	IQPMH-19-1	38.45	2	81.13	1	38.2	7	75	1	37.03	2	36.85	4	29.75	4	2.58	18	-6.33	22	18.8	8	24.7	5
12	IQPMH-19-2	9.12	17	70.87	2	30.1	10	56.4	6	15.53	8	33.37	7	-5.25	20	16.6	9	2.84	13	17.3	11	20.9	11
13	IQPMH-19-3	15.68	14	53.46	6	40.2	6	40.8	15	14.47	10	23.29	13	7.22	14	25.1	4	-2.18	19	21.5	7	16.1	16
14	IQPMH-19-4	21.5	9	28.71	13	53	1	70.5	2	3.5	15	12.3	20	21.34	10	-7.29	23	4.65	10	11.6	18	16.6	15
15	QPM MH-51	24.62	7	-10.5	22	4	21	27.8	18	3.96	14	13.25	19	-0.57	18	17.2	7	10.5	7	14.5	15	12.5	18
16	VEHQ 16-1	48.03	1	25.17	15	16.8	14	31.6	17	3.15	16	41.13	3	19.52	12	21.3	6	7.71	9	24.3	4	25.6	1
17	Pratap QPM Hybrid (C)	8.36	18	48.43	7	40.5	5	44.7	12	16.7	6	25.55	12	6.18	15	-7.25	22	14.9	3	8.25	20	10.5	20
18	HQPM-1 (C)	20.04	11	18.88	18	30.3	9	44	14	36.7	4	16.64	16	36.89	1	31.3	2	3.51	12	27.4	3	20.5	12
19	HQPM-5 (C)	28.3	6	28.7	14	29.1	11	48.3	10	5.6	13	14.63	18	21.74	9	42.8	1	10.5	6	32.5	1	24.9	3
20	HQPM-7 (C)	5.93	21	24.05	16	51	2	66	4	15.05	9	50.92	1	25.5	6	24.8	5	4.34	11	28.2	2	25.2	2
21	Vivek QPM 9 (C)	1.8	22	36.48	11	9.84	18	6.53	22	16.23	7	-9.4	23	1.84	16	-3.1	21	1.75	15	-0.49	23	2.31	22
22	APQH 9 (C)	0	23	0	19	0	23	0	23	0	19	0	22	0	17	0	20	0	17	0	22	0	23
23	PUSA HM8 IMPROVED (C)	23.58	8	-4.73	21	9.97	17	46.2	11	-7.99	20	28.42	10	25.47	7	26.7	3	2.35	14	23.9	5	21.7	7

Table No. : 22 **(Conti...)** **Gain in Yeild (%) over HQPM 1**

S. No.	Entry Name	CWZ												NEPZ					
		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	-7.46	16	-20.27	19	8.87	7	11.95	7	-43.29	21	-6.49	14	10.99	18	52.69	2	-5.22	12
2	APH 2 (PROA)	-19.22	20	-21.63	20	-25.29	22	13.25	5	-48.81	23	-20.9	22	3.83	22	35.02	8	-5.23	13
3	APH3 (PROA)	13.16	8	-7.36	12	17.15	4	12.41	6	12.5	3	14.03	4	40.49	2	42.88	5	5.74	3
4	APQH 1 (QPM+PROA)	-8.49	18	-19.13	18	-0.74	15	4.98	12	2.32	6	-1.28	12	27.33	10	41.59	6	-4.52	11
5	APQH 8 (QPM+PROA)	-8.06	17	-3.11	8	0.83	12	-8.82	19	-27.98	16	-9.85	17	28.83	9	29.68	11	-25.72	19
6	FQH 148	11.6	9	-9.63	14	3.91	11	-15.85	22	-38.19	19	-6.62	15	32.94	7	26.16	12	-26.21	21
7	IIMRQPMH 1705	28.8	3	-30.05	23	35.74	2	2.29	14	15	2	22.68	2	36.32	4	14.17	16	-17.84	17
8	IIMRQPMH 1708	41.38	1	-13.06	16	24.09	3	3.65	13	18.32	1	24.02	1	30.15	8	32.83	10	6.71	2
9	IQPMH-18-2	8.4	11	4.95	4	11.06	5	10.64	9	-1.52	10	7.51	8	34.04	6	34.47	9	0.95	8
10	IQPMH-18-4	21.14	5	-8.13	13	10.8	6	11.68	8	-5.3	11	10.64	5	25.38	11	39.35	7	5.72	4
11	IQPMH-19-1	32.11	2	5.22	3	45.47	1	-8.18	18	2.74	5	21.85	3	24.1	12	45.35	3	-5.64	14
12	IQPMH-19-2	17.85	7	-10.9	15	6.15	9	5.32	11	0.49	8	8.28	7	22.29	13	24.21	13	-15.94	16
13	IQPMH-19-3	-32.77	22	-6.19	10	-4.7	16	-2.1	17	-18.85	13	-15.59	20	16.3	15	56.82	1	-3.74	10
14	IQPMH-19-4	23.48	4	-15.49	17	7.28	8	-11.93	20	-13.82	12	3.86	9	39.76	3	2.93	20	9.52	1
15	QPM MH-51	-7.22	15	-28.44	22	-16.55	21	25.78	2	-45.15	22	-11.52	19	5.59	20	6.8	18	-9.4	15
16	VEHQ 16-1	9.83	10	4.92	5	0.12	13	13.47	4	-24.24	15	0.47	10	58.83	1	43.12	4	-21.59	18
17	Pratap QPM Hybrid (C)	-8.51	19	14.07	1	4.62	10	-18.12	23	0.99	7	-4.55	13	5.04	21	-1.92	23	1.62	7
18	HQPM-1 (C)	0	13	0	6	0	14	0	15	0	9	0	11	0	23	0	21	0	9
19	HQPM-5 (C)	7	12	-1.55	7	-9.47	19	-13.85	21	-30.73	17	-9.92	18	15.56	16	11.5	17	5.09	6
20	HQPM-7 (C)	20.14	6	6.8	2	-5.06	17	26.01	1	3.27	4	10.35	6	9.95	19	-0.66	22	5.14	5
21	Vivek QPM 9 (C)	-21.39	21	-4.49	9	-14.45	20	6.34	10	-42.71	20	-18.45	21	12.08	17	16.16	14	-31.05	22
22	APQH 9 (C)	-32.96	23	-22.83	21	-38.25	23	22.72	3	-33.31	18	-23.63	23	19.33	14	14.64	15	-41.34	23
23	PUSA HM8 IMPROVED (C)	-7.11	14	-6.93	11	-8.01	18	-0.17	16	-21.41	14	-9.05	16	35.89	5	4.17	19	-26.1	20

Table No. : 22 **(Conti...)** **Gain in Yeild (%) over HQPM 1**

S. No.	Entry Name	NEPZ								NWPZ									
		DHOL		RANC		SABO		ZONE		IARI		KARN		LUDH		PANT		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	38.9	5	-16.92	21	0.56	13	12.86	10	-9.74	6	4.87	7	24.62	12	15.74	12	6.91	9
2	APH 2 (PROA)	16.27	15	-9.02	15	-23.41	23	6.16	16	-8.18	5	11.56	1	13.66	20	15.46	13	7.17	8
3	APH3 (PROA)	22.35	11	1.22	6	-13.91	20	21.15	3	2.36	1	2.34	11	13.77	19	8.28	18	5.92	12
4	APQH 1 (QPM+PROA)	15.16	16	-11.82	17	14.09	7	11.61	11	-0.21	3	2.16	12	21.34	17	13.5	15	7.84	7
5	APQH 8 (QPM+PROA)	3.09	21	-22.37	22	6.13	9	0.88	18	-12.41	8	2.55	10	31.45	7	14.5	14	6.33	10
6	FQH 148	8.08	19	-4.8	11	3.94	11	6.01	17	-24.92	21	-4.49	22	38.59	5	29.71	5	6.2	11
7	IIMRQPMH 1705	17.94	14	5.88	3	44.64	1	10.89	13	-10.04	7	-3.79	21	72.01	2	32.88	2	17.32	1
8	IIMRQPMH 1708	31.28	7	-13.49	18	11.9	8	15.85	6	-18.22	12	-1.38	17	23.2	14	20.37	9	3.81	17
9	IQPMH-18-2	27.02	9	7.95	2	14.41	5	19.78	4	-20.3	14	-2.17	18	30.51	8	24.43	6	5.34	15
10	IQPMH-18-4	40.45	4	4.29	5	0.89	12	21.33	2	-25.39	23	8.06	5	51.89	3	7.83	19	5.58	13
11	IQPMH-19-1	31.01	8	-16.77	20	-7.45	17	13.05	9	-22.58	18	7.81	6	73.21	1	20.53	8	13.45	2
12	IQPMH-19-2	32.57	6	12.73	1	42.47	2	14.07	7	-23.92	20	11.5	2	37.88	6	20.96	7	8.14	5
13	IQPMH-19-3	21.08	13	-7.57	12	-5.83	16	13.82	8	-25.27	22	4.64	8	-18.99	23	5.66	20	-7.91	23
14	IQPMH-19-4	46.5	2	-4.3	9	14.34	6	18.72	5	-18.6	13	-3.13	19	26.81	10	5.2	21	-0.32	20
15	QPM MH-51	14.57	17	-9.26	16	-8.52	18	0.84	19	-13.41	9	0.47	14	14.18	18	12.23	16	1.94	18
16	VEHQ 16-1	40.64	3	-1.22	8	4.24	10	22.08	1	-21.96	16	9.8	4	40.41	4	33.75	1	12.22	4
17	Pratap QPM Hybrid (C)	3.83	20	-15.54	19	15.67	4	-1.67	22	-14.2	10	0.3	15	23.59	13	18.78	11	5.06	16
18	HQPM-1 (C)	0	22	0	7	0	15	0	20	0	2	0	16	0	22	0	23	0	19
19	HQPM-5 (C)	26.98	10	-8.18	14	0.06	14	9.39	14	-17.08	11	11.41	3	26.66	11	20.21	10	8.02	6
20	HQPM-7 (C)	21.15	12	5.25	4	33.59	3	8.24	15	-21.68	15	-3.75	20	22.39	15	32.58	3	5.39	14
21	Vivek QPM 9 (C)	11.15	18	-4.33	10	-16.53	21	-0.47	21	-23.14	19	-5.81	23	21.46	16	2.79	22	-3.93	22
22	APQH 9 (C)	-7.3	23	-28	23	-17.82	22	-10.09	23	-22.24	17	0.72	13	5.25	21	8.72	17	-3.08	21
23	PUSA HM8 IMPROVED (C)	55.19	1	-8.05	13	-9.63	19	11.13	12	-5.06	4	2.99	9	27.94	9	29.99	4	12.28	3

Table No. : 22 **(Conti...)** **Gain in Yeild (%) over HQPM 1**

S. No.	Entry Name	PZ																				All India	
		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		VAGA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	-5.65	16	23.89	8	-11.4	15	-7.74	16	-20.1	12	4.83	14	-36.9	23	-11	8	19.7	1	-9.47	13	-2.81	14
2	APH 2 (PROA)	-9.76	19	-28.9	23	-20	20	-18.1	21	-42.9	23	14.63	5	-31.5	21	-19.9	15	4.45	8	-15.3	21	-8.96	21
3	APH3 (PROA)	7.19	5	11.58	12	-20	19	14.5	5	-26.2	17	14.43	6	-11.8	11	-20.4	17	-1.92	16	-9.8	14	0.93	8
4	APQH 1 (QPM+PROA)	11.66	3	2.17	17	-11.8	16	0.5	13	0.11	3	11.61	8	-1.7	3	-13.8	10	17.3	2	-4.11	6	0.74	10
5	APQH 8 (QPM+PROA)	-1.47	12	-17.8	20	-1.09	12	-12.4	19	-26.4	18	-9.62	21	-30	19	-17.1	12	-9.89	23	-14.4	19	-7.97	19
6	FQH 148	0.94	10	22.69	9	-9.6	13	-14.7	20	-37.7	22	-0.56	17	-17.5	13	-19.9	16	10.8	4	-12.4	17	-5.63	17
7	IIMRQPMH 1705	-4.03	15	36.1	3	14.93	3	18.05	3	-2.6	5	9.34	11	-9.65	8	-18.5	14	-5.06	18	-7.26	9	3.61	4
8	IIMRQPMH 1708	10.07	4	29.85	5	0.37	8	7.34	8	0.28	1	22.45	2	-7.32	5	-22.5	19	-5.68	20	-8.55	12	1.73	6
9	IQPMH-18-2	-1.73	13	17.24	10	11	4	8.29	7	-17.3	11	3.82	15	-31.9	22	-14.3	11	10.7	5	-7.89	10	0.79	9
10	IQPMH-18-4	-10.87	20	31.06	4	-21.1	22	6.14	9	-36.5	21	10.53	9	-1.4	2	-18.3	13	-7.19	21	-10.7	16	-0.01	13
11	IQPMH-19-1	15.33	2	52.37	1	6.12	7	21.52	1	0.24	2	17.33	4	-5.21	4	-21.9	18	-9.5	22	-6.75	8	3.51	5
12	IQPMH-19-2	-9.1	17	43.73	2	-0.15	10	8.61	6	-15.5	8	14.35	7	-30.8	20	-11.2	9	-0.64	13	-7.92	11	0.39	11
13	IQPMH-19-3	-3.64	14	29.09	6	7.67	6	-2.22	15	-16.3	10	5.7	13	-21.7	14	-4.75	4	-5.49	19	-4.66	7	-3.62	16
14	IQPMH-19-4	1.22	9	8.27	13	17.48	1	18.42	2	-24.3	15	-3.71	20	-11.4	10	-29.4	23	1.11	10	-12.4	18	-3.24	15
15	QPM MH-51	3.82	7	-24.7	22	-20.2	21	-11.3	18	-24	14	-2.9	19	-27.4	18	-10.8	7	6.76	7	-10.1	15	-6.58	18
16	VEHQ 16-1	23.32	1	5.29	15	-10.4	14	-8.6	17	-24.5	16	21	3	-12.7	12	-7.61	6	4.06	9	-2.41	4	4.31	1
17	Pratap QPM Hybrid (C)	-9.73	18	24.85	7	7.9	5	0.5	12	-14.6	6	7.64	12	-22.4	15	-29.4	22	11	3	-15	20	-8.24	20
18	HQPM-1 (C)	0	11	0	18	0	9	0	14	0	4	0	16	0	1	0	2	0	12	0	3	0	12
19	HQPM-5 (C)	6.88	6	8.26	14	-0.93	11	3.03	10	-22.8	13	-1.72	18	-11.1	9	8.74	1	6.79	6	3.97	1	3.66	3
20	HQPM-7 (C)	-11.76	21	4.35	16	15.95	2	15.3	4	-15.8	9	29.39	1	-8.32	6	-4.96	5	0.81	11	0.61	2	3.92	2
21	Vivek QPM 9 (C)	-15.2	22	14.8	11	-15.7	18	-26	22	-15	7	-22.3	23	-25.6	16	-26.2	21	-1.69	15	-21.9	23	-15.1	22
22	APQH 9 (C)	-16.7	23	-15.9	19	-23.2	23	-30.5	23	-26.9	19	-14.3	22	-27	17	-23.8	20	-3.39	17	-21.5	22	-17	23
23	PUSA HM8 IMPROVED (C)	2.95	8	-19.9	21	-15.6	17	1.52	11	-32.7	20	10.11	10	-8.34	7	-3.54	3	-1.12	14	-2.78	5	1.06	7

Table No. : 22 (Conti...) Gain in Yeild (%) over HQPM 5

S. No.	Entry Name	CWZ												NEPZ					
		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	-13.52	16	-19.02	19	20.26	7	29.95	7	-18.13	21	3.81	14	-3.95	18	36.94	2	-9.82	12
2	APH 2 (PROA)	-24.51	20	-20.4	20	-17.48	22	31.46	5	-26.11	23	-12.19	22	-10.16	22	21.1	8	-9.82	13
3	APH3 (PROA)	5.75	8	-5.9	12	29.4	4	30.48	6	62.4	3	26.6	4	21.57	2	28.14	5	0.62	3
4	APQH 1 (QPM+PROA)	-14.48	18	-17.86	18	9.64	15	21.86	12	47.71	6	9.59	12	10.18	10	26.99	6	-9.15	11
5	APQH 8 (QPM+PROA)	-14.07	17	-1.59	8	11.38	12	5.83	19	3.96	16	0.08	17	11.48	9	16.3	11	-29.32	19
6	FQH 148	4.3	9	-8.21	14	14.78	11	-2.32	22	-10.78	19	3.66	15	15.03	7	13.15	12	-29.78	21
7	IIMRQPMH 1705	20.37	3	-28.95	23	49.93	2	18.73	14	66	2	36.19	2	17.96	4	2.4	16	-21.82	17
8	IIMRQPMH 1708	32.13	1	-11.69	16	37.06	3	20.31	13	70.81	1	37.68	1	12.62	8	19.13	10	1.54	2
9	IQPMH-18-2	1.31	11	6.6	4	22.67	5	28.43	9	42.16	10	19.35	8	15.99	6	20.6	9	-3.95	8
10	IQPMH-18-4	13.21	5	-6.69	13	22.38	6	29.64	8	36.7	11	22.83	5	8.5	11	24.97	7	0.6	4
11	IQPMH-19-1	23.47	2	6.87	3	60.68	1	6.58	18	48.31	5	35.27	3	7.38	12	30.36	3	-10.22	14
12	IQPMH-19-2	10.14	7	-9.5	15	17.25	9	22.25	11	45.06	8	20.21	7	5.82	13	11.4	13	-20.02	16
13	IQPMH-19-3	-37.17	22	-4.72	10	5.26	16	13.64	17	17.14	13	-6.29	20	0.64	15	40.64	1	-8.41	10
14	IQPMH-19-4	15.4	4	-14.16	17	18.49	8	2.23	20	24.41	12	15.3	9	20.94	3	-7.69	20	4.22	1
15	QPM MH-51	-13.29	15	-27.31	22	-7.82	21	46.01	2	-20.82	22	-1.77	19	-8.63	20	-4.22	18	-13.79	15
16	VEHQ 16-1	2.65	10	6.57	5	10.58	13	31.72	4	9.36	15	11.54	10	37.44	1	28.35	4	-25.39	18
17	Pratap QPM Hybrid (C)	-14.49	19	15.86	1	15.55	10	-4.96	23	45.78	7	5.96	13	-9.1	21	-12.04	23	-3.31	7
18	HQPM-1 (C)	-6.54	13	1.57	6	10.45	14	16.08	15	44.35	9	11.02	11	-13.47	23	-10.32	21	-4.85	9
19	HQPM-5 (C)	0	12	0	7	0	19	0	21	0	17	0	18	0	16	0	17	0	6
20	HQPM-7 (C)	12.28	6	8.48	2	4.87	17	46.27	1	49.08	4	22.51	6	-4.85	19	-10.9	22	0.05	5
21	Vivek QPM 9 (C)	-26.53	21	-2.99	9	-5.51	20	23.44	10	-17.3	20	-9.46	21	-3.01	17	4.18	14	-34.39	22
22	APQH 9 (C)	-37.35	23	-21.62	21	-31.79	23	42.45	3	-3.73	18	-15.22	23	3.26	14	2.81	15	-44.19	23
23	PUSA HM8 IMPROVED (C)	-13.19	14	-5.47	11	1.61	18	15.88	16	13.44	14	0.97	16	17.59	5	-6.58	19	-29.68	20

Table No. : 22 (Conti...) Gain in Yeild (%) over HQPM 5

S. No.	Entry Name	NEPZ								NWPZ									
		DHOL		RANC		SABO		ZONE		IARI		KARN		LUDH		PANT		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	9.39	5	-9.52	21	0.5	13	3.17	10	8.85	6	-5.87	7	-1.61	12	-3.72	12	-1.03	9
2	APH 2 (PROA)	-8.44	15	-0.91	15	-23.45	23	-2.96	16	10.73	5	0.13	1	-10.26	20	-3.95	13	-0.79	8
3	APH3 (PROA)	-3.65	11	10.24	6	-13.96	20	10.75	3	23.44	1	-8.15	11	-10.17	19	-9.92	18	-1.95	12
4	APQH 1 (QPM+PROA)	-9.31	16	-3.96	17	14.02	7	2.03	11	20.34	3	-8.3	12	-4.2	17	-5.58	15	-0.17	7
5	APQH 8 (QPM+PROA)	-18.82	21	-15.45	22	6.06	9	-7.78	18	5.64	8	-7.95	10	3.78	7	-4.75	14	-1.56	10
6	FQH 148	-14.89	19	3.68	11	3.88	11	-3.1	17	-9.46	21	-14.27	22	9.42	5	7.9	5	-1.68	11
7	IIMRQPMH 1705	-7.13	14	15.31	3	44.55	1	1.37	13	8.49	7	-13.65	21	35.8	2	10.54	2	8.61	1
8	IIMRQPMH 1708	3.38	7	-5.78	18	11.84	8	5.9	6	-1.37	12	-11.48	17	-2.73	14	0.13	9	-3.9	17
9	IQPMH-18-2	0.03	9	17.57	2	14.35	5	9.49	4	-3.88	14	-12.19	18	3.04	8	3.51	6	-2.48	15
10	IQPMH-18-4	10.6	4	13.59	5	0.83	12	10.91	2	-10.02	23	-3	5	19.92	3	-10.3	19	-2.26	13
11	IQPMH-19-1	3.17	8	-9.35	20	-7.5	17	3.34	9	-6.63	18	-3.23	6	36.75	1	0.26	8	5.03	2
12	IQPMH-19-2	4.4	6	22.78	1	42.39	2	4.27	7	-8.25	20	0.08	2	8.86	6	0.62	7	0.11	5
13	IQPMH-19-3	-4.65	13	0.67	12	-5.89	16	4.05	8	-9.88	22	-6.08	8	-36.04	23	-12.1	20	-14.8	23
14	IQPMH-19-4	15.37	2	4.23	9	14.27	6	8.53	5	-1.83	13	-13.05	19	0.12	10	-12.5	21	-7.72	20
15	QPM MH-51	-9.77	17	-1.17	16	-8.57	18	-7.82	19	4.43	9	-9.82	14	-9.85	18	-6.64	16	-5.63	18
16	VEHQ 16-1	10.75	3	7.59	8	4.17	10	11.6	1	-5.89	16	-1.45	4	10.86	4	11.26	1	3.88	4
17	Pratap QPM Hybrid (C)	-18.23	20	-8.01	19	15.61	4	-10.11	22	3.47	10	-9.97	15	-2.42	13	-1.19	11	-2.74	16
18	HQPM-1 (C)	-21.25	22	8.91	7	-0.06	15	-8.59	20	20.6	2	-10.24	16	-21.05	22	-16.8	23	-7.42	19
19	HQPM-5 (C)	0	10	0	14	0	14	0	14	0	11	0	3	0	11	0	10	0	6
20	HQPM-7 (C)	-4.59	12	14.63	4	33.51	3	-1.06	15	-5.55	15	-13.61	20	-3.38	15	10.29	3	-2.44	14
21	Vivek QPM 9 (C)	-12.47	18	4.19	10	-16.58	21	-9.02	21	-7.31	19	-15.46	23	-4.11	16	-14.5	22	-11.1	22
22	APQH 9 (C)	-27	23	-21.58	23	-17.87	22	-17.81	23	-6.23	17	-9.6	13	-16.91	21	-9.56	17	-10.3	21
23	PUSA HM8 IMPROVED (C)	22.21	1	0.15	13	-9.69	19	1.59	12	14.5	4	-7.55	9	1.01	9	8.13	4	3.94	3

Table No. : 22 (Conti...) Gain in Yeild (%) over HQPM 5

S. No.	Entry Name	PZ																				All India	
		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		VAGA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	-11.7	16	14.44	8	-10.5	15	-10.5	16	3.46	12	6.66	14	-29.1	23	-18.2	8	12.09	1	-12.9	13	-6.24	14
2	APH 2 (PROA)	-15.6	19	-34.3	23	-19.2	20	-20.5	21	-26.1	23	16.63	5	-23	21	-26.3	15	-2.19	8	-18.6	21	-12.2	21
3	APH3 (PROA)	0.3	5	3.06	12	-19.2	19	11.13	5	-4.41	17	16.43	6	-0.82	11	-26.8	17	-8.16	16	-13.2	14	-2.63	8
4	APQH 1 (QPM+PROA)	4.48	3	-5.62	17	-11	16	-2.46	13	29.58	3	13.56	8	10.53	3	-20.7	10	9.82	2	-7.78	6	-2.82	10
5	APQH 8 (QPM+PROA)	-7.81	12	-24.1	20	-0.16	12	-15	19	-4.76	18	-8.04	21	-21.3	19	-23.8	12	-15.6	23	-17.7	19	-11.2	19
6	FQH 148	-5.55	10	13.33	9	-8.76	13	-17.2	20	-19.3	22	1.17	17	-7.21	13	-26.4	16	3.74	4	-15.7	17	-8.96	17
7	IIMRQPMH 1705	-10.2	15	25.72	3	16.01	3	14.57	3	26.07	5	11.25	11	1.59	8	-25.1	14	-11.1	18	-10.8	9	-0.05	4
8	IIMRQPMH 1708	2.99	4	19.95	5	1.31	8	4.18	8	29.8	1	24.59	2	4.21	5	-28.7	19	-11.7	20	-12.1	12	-1.86	6
9	IQPMH-18-2	-8.06	13	8.29	10	12.03	4	5.1	7	7.03	11	5.63	15	-23.4	22	-21.2	11	3.67	5	-11.4	10	-2.77	9
10	IQPMH-18-4	-16.6	20	21.07	4	-20.4	22	3.02	9	-17.7	21	12.46	9	10.86	2	-24.9	13	-13.1	21	-14.1	16	-3.54	13
11	IQPMH-19-1	7.91	2	40.74	1	7.11	7	17.94	1	29.76	2	19.38	4	6.58	4	-28.2	18	-15.3	22	-10.3	8	-0.14	5
12	IQPMH-19-2	-15	17	32.76	2	0.78	10	5.42	6	9.4	8	16.35	7	-22.2	20	-18.3	9	-6.96	13	-11.4	11	-3.16	11
13	IQPMH-19-3	-9.84	14	19.24	6	8.67	6	-5.1	15	8.4	10	7.55	13	-11.9	14	-12.4	4	-11.5	19	-8.3	7	-7.02	16
14	IQPMH-19-4	-5.3	9	0.01	13	18.57	1	14.93	2	-1.99	15	-2.03	20	-0.34	10	-35.1	23	-5.32	10	-15.8	18	-6.65	15
15	QPM MH-51	-2.86	7	-30.4	22	-19.4	21	-13.9	18	-1.56	14	-1.2	19	-18.3	18	-17.9	7	-0.03	7	-13.5	15	-9.88	18
16	VEHQ 16-1	15.38	1	-2.74	15	-9.53	14	-11.3	17	-2.32	16	23.12	3	-1.83	12	-15	6	-2.55	9	-6.14	4	0.62	1
17	Pratap QPM Hybrid (C)	-15.5	18	15.33	7	8.9	5	-2.45	12	10.51	6	9.52	12	-12.8	15	-35	22	3.93	3	-18.3	20	-11.5	20
18	HQPM-1 (C)	-6.43	11	-7.63	18	0.93	9	-2.94	14	29.44	4	1.75	16	12.44	1	-8.04	2	-6.36	12	-3.82	3	-3.53	12
19	HQPM-5 (C)	0	6	0	14	0	11	0	10	0	13	0	18	0	9	0	1	0	6	0	1	0	3
20	HQPM-7 (C)	-17.4	21	-3.61	16	17.03	2	11.9	4	8.95	9	31.65	1	3.08	6	-12.6	5	-5.6	11	-3.23	2	0.25	2
21	Vivek QPM 9 (C)	-20.7	22	6.04	11	-14.9	18	-28.2	22	10.06	7	-21	23	-16.4	16	-32.1	21	-7.95	15	-24.9	23	-18.1	22
22	APQH 9 (C)	-22.1	23	-22.3	19	-22.5	23	-32.6	23	-5.31	19	-12.8	22	-17.9	17	-30	20	-9.53	17	-24.5	22	-19.9	23
23	PUSA HM8 IMPROVED (C)	-3.68	8	-26	21	-14.8	17	-1.46	11	-12.9	20	12.03	10	3.06	7	-11.3	3	-7.41	14	-6.5	5	-2.5	7

Table No. : 22 (Conti...) Gain in Yeild (%) over HQPM 7

S. No.	Entry Name	CWZ												NEPZ					
		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	-22.97	16	-25.35	19	14.67	7	-11.16	7	-45.08	21	-15.27	14	0.95	18	53.7	2	-9.86	12
2	APH 2 (PROA)	-32.76	20	-26.62	20	-21.31	22	-10.13	5	-50.43	23	-28.32	22	-5.57	22	35.91	8	-9.86	13
3	APH3 (PROA)	-5.81	8	-13.25	12	23.39	4	-10.79	6	8.93	3	3.34	4	27.77	2	43.82	5	0.57	3
4	APQH 1 (QPM+PROA)	-23.83	18	-24.28	18	4.55	15	-16.68	12	-0.92	6	-10.54	12	15.8	10	42.53	6	-9.19	11
5	APQH 8 (QPM+PROA)	-23.47	17	-9.28	8	6.21	12	-27.64	19	-30.26	16	-18.31	17	17.17	9	30.53	11	-29.35	19
6	FQH 148	-7.11	9	-15.38	14	9.45	11	-33.22	22	-40.15	19	-15.38	15	20.9	7	26.99	12	-29.82	21
7	IIMRQPMH 1705	7.21	3	-34.5	23	42.97	2	-18.83	14	11.35	2	11.17	2	23.98	4	14.93	16	-21.85	17
8	IIMRQPMH 1708	17.69	1	-18.59	16	30.7	3	-17.75	13	14.57	1	12.38	1	18.37	8	33.7	10	1.49	2
9	IQPMH-18-2	-9.77	11	-1.74	4	16.98	5	-12.2	9	-4.64	10	-2.58	8	21.91	6	35.36	9	-3.99	8
10	IQPMH-18-4	0.84	5	-13.98	13	16.7	6	-11.37	8	-8.3	11	0.26	5	14.03	11	40.27	7	0.55	4
11	IQPMH-19-1	9.97	2	-1.48	3	53.22	1	-27.13	18	-0.52	5	10.42	3	12.86	12	46.31	3	-10.26	14
12	IQPMH-19-2	-1.9	7	-16.58	15	11.8	9	-16.42	11	-2.7	8	-1.88	7	11.22	13	25.03	13	-20.05	16
13	IQPMH-19-3	-44.04	22	-12.17	10	0.37	16	-22.31	17	-21.42	13	-23.51	20	5.77	15	57.85	1	-8.45	10
14	IQPMH-19-4	2.78	4	-20.87	17	12.99	8	-30.1	20	-16.55	12	-5.88	9	27.11	3	3.61	20	4.17	1
15	QPM MH-51	-22.77	15	-33	22	-12.1	21	-0.18	2	-46.88	22	-19.82	19	-3.97	20	7.5	18	-13.83	15
16	VEHQ 16-1	-8.58	10	-1.76	5	5.45	13	-9.95	4	-26.64	15	-8.96	10	44.45	1	44.06	4	-25.42	18
17	Pratap QPM Hybrid (C)	-23.84	19	6.81	1	10.19	10	-35.02	23	-2.21	7	-13.51	13	-4.47	21	-1.27	23	-3.35	7
18	HQPM-1 (C)	-16.76	13	-6.37	6	5.33	14	-20.64	15	-3.17	9	-9.38	11	-9.05	23	0.66	21	-4.89	9
19	HQPM-5 (C)	-10.93	12	-7.82	7	-4.64	19	-31.63	21	-32.92	17	-18.37	18	5.1	16	12.24	17	-0.05	6
20	HQPM-7 (C)	0	6	0	2	0	17	0	1	0	4	0	6	0	19	0	22	0	5
21	Vivek QPM 9 (C)	-34.56	21	-10.57	9	-9.9	20	-15.61	10	-44.53	20	-26.1	21	1.93	17	16.92	14	-34.42	22
22	APQH 9 (C)	-44.2	23	-27.75	21	-34.96	23	-2.61	3	-35.42	18	-30.8	23	8.53	14	15.4	15	-44.21	23
23	PUSA HM8 IMPROVED (C)	-22.68	14	-12.86	11	-3.1	18	-20.77	16	-23.9	14	-17.58	16	23.59	5	4.86	19	-29.71	20

Table No. : 22 (Conti...) Gain in Yeild (%) over HQPM 7

S. No.	Entry Name	NEPZ								NWPZ									
		DHOL		RANC		SABO		ZONE		IARI		KARN		LUDH		PANT		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	14.65	5	-21.06	21	-24.72	13	4.27	10	15.25	6	8.96	7	1.83	12	-12.71	12	1.44	9
2	APH 2 (PROA)	-4.03	15	-13.55	15	-42.67	23	-1.92	16	17.24	5	15.9	1	-7.13	20	-12.92	13	1.69	8
3	APH3 (PROA)	0.99	11	-3.83	6	-35.56	20	11.93	3	30.7	1	6.32	11	-7.04	19	-18.33	18	0.5	12
4	APQH 1 (QPM+PROA)	-4.94	16	-16.22	17	-14.6	7	3.12	11	27.42	3	6.14	12	-0.85	17	-14.4	15	2.32	7
5	APQH 8 (QPM+PROA)	-14.91	21	-26.24	22	-20.56	9	-6.79	18	11.85	8	6.54	10	7.41	7	-13.64	14	0.9	10
6	FQH 148	-10.79	19	-9.55	11	-22.19	11	-2.06	17	-4.14	21	-0.77	22	13.24	5	-2.17	5	0.77	11
7	IIMRQPMH 1705	-2.65	14	0.6	3	8.27	1	2.45	13	14.86	7	-0.05	21	40.55	2	0.23	2	11.32	1
8	IIMRQPMH 1708	8.36	7	-17.81	18	-16.23	8	7.03	6	4.43	12	2.46	17	0.66	14	-9.22	9	-1.5	17
9	IQPMH-18-2	4.85	9	2.57	2	-14.36	5	10.66	4	1.77	14	1.64	18	6.64	8	-6.15	6	-0.04	15
10	IQPMH-18-4	15.93	4	-0.91	5	-24.48	12	12.1	2	-4.73	23	12.27	5	24.11	3	-18.67	19	0.18	13
11	IQPMH-19-1	8.14	8	-20.92	20	-30.72	17	4.44	9	-1.15	18	12	6	41.53	1	-9.09	8	7.65	2
12	IQPMH-19-2	9.43	6	7.11	1	6.65	2	5.38	7	-2.86	20	15.84	2	12.66	6	-8.77	7	2.61	5
13	IQPMH-19-3	-0.06	13	-12.18	12	-29.51	16	5.16	8	-4.58	22	8.71	8	-33.81	23	-20.31	20	-12.62	23
14	IQPMH-19-4	20.92	2	-9.07	9	-14.41	6	9.69	5	3.94	13	0.65	19	3.62	10	-20.66	21	-5.41	20
15	QPM MH-51	-5.43	17	-13.78	16	-31.52	18	-6.84	19	10.57	9	4.38	14	-6.7	18	-15.35	16	-3.27	18
16	VEHQ 16-1	16.08	3	-6.14	8	-21.97	10	12.79	1	-0.36	16	14.07	4	14.73	4	0.88	1	6.48	4
17	Pratap QPM Hybrid (C)	-14.3	20	-19.75	19	-13.41	4	-9.15	22	9.55	10	4.2	15	0.99	13	-10.42	11	-0.31	16
18	HQPM-1 (C)	-17.46	22	-4.99	7	-25.14	15	-7.61	20	27.69	2	3.89	16	-18.29	22	-24.58	23	-5.11	19
19	HQPM-5 (C)	4.81	10	-12.76	14	-25.1	14	1.07	14	5.88	11	15.75	3	3.49	11	-9.33	10	2.5	6
20	HQPM-7 (C)	0	12	0	4	0	3	0	15	0	15	0	20	0	15	0	3	0	14
21	Vivek QPM 9 (C)	-8.26	18	-9.1	10	-37.52	21	-8.05	21	-1.87	19	-2.15	23	-0.75	16	-22.47	22	-8.84	22
22	APQH 9 (C)	-23.48	23	-31.59	23	-38.49	22	-16.94	23	-0.72	17	4.64	13	-14	21	-18	17	-8.04	21
23	PUSA HM8 IMPROVED (C)	28.1	1	-12.63	13	-32.36	19	2.67	12	21.23	4	7	9	4.54	9	-1.96	4	6.54	3

Table No. : 22 **(Conti...)** **Gain in Yeild (%) over HQPM 7**

S. No.	Entry Name	PZ																				All India	
		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		VAGA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	6.92	16	18.73	8	-23.55	15	-19.98	16	-5.04	12	-18.98	14	-31.22	23	-6.36	8	18.74	1	-10.02	13	-6.47	14
2	APH 2 (PROA)	2.26	19	-31.86	23	-31	20	-28.97	21	-32.21	23	-11.41	5	-25.32	21	-15.71	15	3.61	8	-15.84	21	-12.39	21
3	APH3 (PROA)	21.48	5	6.93	12	-30.98	19	-0.69	5	-12.26	17	-11.57	6	-3.79	11	-16.24	17	-2.7	16	-10.35	14	-2.87	8
4	APQH 1 (QPM+PROA)	26.54	3	-2.09	17	-23.93	16	-12.84	13	18.94	3	-13.74	8	7.22	3	-9.29	10	16.34	2	-4.7	6	-3.06	10
5	APQH 8 (QPM+PROA)	11.66	12	-21.25	20	-14.69	12	-24.03	19	-12.59	18	-30.15	21	-23.65	19	-12.79	12	-10.61	23	-14.9	19	-11.44	19
6	FQH 148	14.4	10	17.57	9	-22.04	13	-26.04	20	-25.97	22	-23.15	17	-9.99	13	-15.77	16	9.9	4	-12.89	17	-9.19	17
7	IIMRQPMH 1705	8.76	15	30.43	3	-0.88	3	2.38	3	15.72	5	-15.5	11	-1.45	8	-14.28	14	-5.82	18	-7.82	9	-0.29	4
8	IIMRQPMH 1708	24.74	4	24.44	5	-13.44	8	-6.9	8	19.14	1	-5.36	2	1.1	5	-18.46	19	-6.44	20	-9.11	12	-2.1	6
9	IQPMH-18-2	11.36	13	12.35	10	-4.27	4	-6.08	7	-1.76	11	-19.76	15	-25.72	22	-9.82	11	9.83	5	-8.45	10	-3.01	9
10	IQPMH-18-4	1	20	25.6	4	-31.95	22	-7.94	9	-24.49	21	-14.58	9	7.54	2	-14.02	13	-7.94	21	-11.21	16	-3.78	13
11	IQPMH-19-1	30.7	2	46.02	1	-8.48	7	5.4	1	19.1	2	-9.32	4	3.39	4	-17.8	18	-10.23	22	-7.32	8	-0.39	5
12	IQPMH-19-2	3.01	17	37.74	2	-13.89	10	-5.8	6	0.41	8	-11.63	7	-24.5	20	-6.56	9	-1.43	13	-8.49	11	-3.4	11
13	IQPMH-19-3	9.2	14	23.71	6	-7.14	6	-15.2	15	-0.51	10	-18.31	13	-14.57	14	0.22	4	-6.25	19	-5.24	7	-7.25	16
14	IQPMH-19-4	14.7	9	3.76	13	1.31	1	2.71	2	-10.04	15	-25.59	20	-3.32	10	-25.72	23	0.3	10	-12.95	18	-6.88	15
15	QPM MH-51	17.65	7	-27.81	22	-31.14	21	-23.03	18	-9.64	14	-24.96	19	-20.77	18	-6.11	7	5.91	7	-10.65	15	-10.1	18
16	VEHQ 16-1	39.75	1	0.9	15	-22.7	14	-20.72	17	-10.35	16	-6.48	3	-4.76	12	-2.79	6	3.23	9	-3.01	4	0.37	1
17	Pratap QPM Hybrid (C)	2.3	18	19.65	7	-6.95	5	-12.83	12	1.43	6	-16.81	12	-15.4	15	-25.68	22	10.1	3	-15.55	20	-11.7	20
18	HQPM-1 (C)	13.33	11	-4.17	18	-13.76	9	-13.27	14	18.81	4	-22.71	16	9.07	1	5.21	2	-0.8	12	-0.61	3	-3.77	12
19	HQPM-5 (C)	21.12	6	3.75	14	-14.55	11	-10.64	10	-8.21	13	-24.04	18	-2.99	9	14.41	1	5.94	6	3.34	1	-0.25	3
20	HQPM-7 (C)	0	21	0	16	0	2	0	4	0	9	0	1	0	6	0	5	0	11	0	2	0	2
21	Vivek QPM 9 (C)	-3.9	22	10.02	11	-27.27	18	-35.83	22	1.02	7	-39.97	23	-18.85	16	-22.36	21	-2.48	15	-22.37	23	-18.27	22
22	APQH 9 (C)	-5.59	23	-19.39	19	-33.79	23	-39.76	23	-13.08	19	-33.74	22	-20.32	17	-19.87	20	-4.16	17	-21.99	22	-20.11	23
23	PUSA HM8 IMPROVED (C)	16.66	8	-23.2	21	-27.18	17	-11.95	11	-20.03	20	-14.9	10	-0.02	7	1.49	3	-1.91	14	-3.38	5	-2.74	7

Table No. : 22 (Conti...) Gain in Yeild (%) over PUSA HM8 IMPROVED (C)

S. No.	Entry Name	CWZ												NEPZ					
		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	-0.38	16	-14.33	19	18.35	7	12.14	7	-27.83	21	2.81	14	-18.32	18	46.58	2	28.25	12
2	APH 2 (PROA)	-13.04	20	-15.8	20	-18.79	22	13.44	5	-34.86	23	-13.03	22	-23.6	22	29.62	8	28.24	13
3	APH3 (PROA)	21.81	8	-0.45	12	27.34	4	12.6	6	43.16	3	25.38	4	3.38	2	37.16	5	43.09	3
4	APQH 1 (QPM+PROA)	-1.49	18	-13.11	18	7.9	15	5.16	12	30.21	6	8.54	12	-6.3	10	35.93	6	29.21	11
5	APQH 8 (QPM+PROA)	-1.02	17	4.11	8	9.61	12	-8.67	19	-8.36	16	-0.88	17	-5.2	9	24.49	11	0.51	19
6	FQH 148	20.14	9	-2.9	14	12.96	11	-15.7	22	-21.35	19	2.67	15	-2.18	7	21.11	12	-0.14	21
7	IIMRQPMH 1705	38.66	3	-24.84	23	47.55	2	2.46	14	46.33	2	34.88	2	0.31	4	9.6	16	11.19	17
8	IIMRQPMH 1708	52.2	1	-6.58	16	34.89	3	3.82	13	50.57	1	36.35	1	-4.23	8	27.51	10	44.4	2
9	IQPMH-18-2	16.7	11	12.76	4	20.72	5	10.83	9	25.31	10	18.2	8	-1.36	6	29.09	9	36.6	8
10	IQPMH-18-4	30.41	5	-1.29	13	20.44	6	11.87	8	20.5	11	21.65	5	-7.74	11	33.77	7	43.06	4
11	IQPMH-19-1	42.22	2	13.05	3	58.13	1	-8.02	18	30.74	5	33.97	3	-8.68	12	39.54	3	27.68	14
12	IQPMH-19-2	26.87	7	-4.27	15	15.39	9	5.5	11	27.87	8	19.05	7	-10.01	13	19.24	13	13.75	16
13	IQPMH-19-3	-27.62	22	0.79	10	3.59	16	-1.94	17	3.26	13	-7.2	20	-14.42	15	50.54	1	30.26	10
14	IQPMH-19-4	32.93	4	-9.2	17	16.61	8	-11.78	20	9.67	12	14.19	9	2.85	3	-1.19	20	48.21	1
15	QPM MH-51	-0.12	15	-23.11	22	-9.28	21	26	2	-30.2	22	-2.72	19	-22.3	20	2.53	18	22.6	15
16	VEHQ 16-1	18.24	10	12.73	5	8.83	13	13.66	4	-3.6	15	10.46	10	16.87	1	37.39	4	6.11	18
17	Pratap QPM Hybrid (C)	-1.51	19	22.57	1	13.72	10	-17.98	23	28.5	7	4.94	13	-22.7	21	-5.85	23	37.51	7
18	HQPM-1 (C)	7.65	13	7.45	6	8.7	14	0.17	15	27.25	9	9.95	11	-26.41	23	-4	21	35.32	9
19	HQPM-5 (C)	15.19	12	5.78	7	-1.59	19	-13.7	21	-11.85	17	-0.96	18	-14.96	16	7.04	17	42.21	6
20	HQPM-7 (C)	29.33	6	14.75	2	3.2	17	26.22	1	31.41	4	21.33	6	-19.09	19	-4.63	22	42.28	5
21	Vivek QPM 9 (C)	-15.37	21	2.63	9	-7.01	20	6.52	10	-27.1	20	-10.34	21	-17.53	17	11.51	14	-6.69	22
22	APQH 9 (C)	-27.83	23	-17.09	21	-32.87	23	22.92	3	-15.14	18	-16.04	23	-12.19	14	10.05	15	-20.62	23
23	PUSA HM8 IMPROVED (C)	0	14	0	11	0	18	0	16	0	14	0	16	0	5	0	19	0	20

Table No. : 22 (Conti...) Gain in Yeild (%) over PUSA HM8 IMPROVED (C)

S. No.	Entry Name	NEPZ								NWPZ									
		DHOL		RANC		SABO		ZONE		IARI		KARN		LUDH		PANT		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	-10.5	5	-9.65	21	11.28	13	1.56	10	-4.93	6	1.83	7	-2.6	12	-10.96	12	-4.78	9
2	APH 2 (PROA)	-25.08	15	-1.05	15	-15.24	23	-4.48	16	-3.29	5	8.32	1	-11.16	20	-11.18	13	-4.55	8
3	APH3 (PROA)	-21.16	11	10.08	6	-4.73	20	9.02	3	7.81	1	-0.64	11	-11.08	19	-16.7	18	-5.66	12
4	APQH 1 (QPM+PROA)	-25.79	16	-4.1	17	26.25	7	0.43	11	5.1	3	-0.81	12	-5.16	17	-12.68	15	-3.96	7
5	APQH 8 (QPM+PROA)	-33.57	21	-15.57	22	17.44	9	-9.22	18	-7.74	8	-0.43	10	2.74	7	-11.91	14	-5.29	10
6	FQH 148	-30.36	19	3.53	11	15.03	11	-4.61	17	-20.92	21	-7.27	22	8.32	5	-0.21	5	-5.41	11
7	IIMRQPMH 1705	-24.01	14	15.14	3	60.06	1	-0.22	13	-5.25	7	-6.59	21	34.44	2	2.23	2	4.49	1
8	IIMRQPMH 1708	-15.41	7	-5.92	18	23.83	8	4.25	6	-13.86	12	-4.25	17	-3.71	14	-7.4	9	-7.54	17
9	IQPMH-18-2	-18.15	9	17.4	2	26.61	5	7.78	4	-16.05	14	-5.02	18	2	8	-4.28	6	-6.17	15
10	IQPMH-18-4	-9.5	4	13.42	5	11.65	12	9.18	2	-21.41	23	4.92	5	18.72	3	-17.05	19	-5.96	13
11	IQPMH-19-1	-15.58	8	-9.49	20	2.42	17	1.72	9	-18.46	18	4.67	6	35.38	1	-7.28	8	1.05	2
12	IQPMH-19-2	-14.58	6	22.6	1	57.66	2	2.64	7	-19.87	20	8.26	2	7.76	6	-6.95	7	-3.69	5
13	IQPMH-19-3	-21.98	13	0.52	12	4.21	16	2.42	8	-21.29	22	1.6	8	-36.68	23	-18.71	20	-17.98	23
14	IQPMH-19-4	-5.6	2	4.08	9	26.53	6	6.83	5	-14.27	13	-5.94	19	-0.89	10	-19.07	21	-11.22	20
15	QPM MH-51	-26.17	17	-1.32	16	1.24	18	-9.27	19	-8.8	9	-2.45	14	-10.76	18	-13.66	16	-9.21	18
16	VEHQ 16-1	-9.38	3	7.43	8	15.35	10	9.85	1	-17.81	16	6.6	4	9.75	4	2.9	1	-0.05	4
17	Pratap QPM Hybrid (C)	-33.1	20	-8.15	19	28.01	4	-11.52	22	-9.63	10	-2.62	15	-3.4	13	-8.62	11	-6.43	16
18	HQPM-1 (C)	-35.56	22	8.75	7	10.66	15	-10.02	20	5.33	2	-2.91	16	-21.84	22	-23.07	23	-10.93	19
19	HQPM-5 (C)	-18.18	10	-0.15	14	10.73	14	-1.57	14	-12.66	11	8.17	3	-1	11	-7.52	10	-3.79	6
20	HQPM-7 (C)	-21.93	12	14.46	4	47.84	3	-2.6	15	-17.51	15	-6.55	20	-4.35	15	2	3	-6.13	14
21	Vivek QPM 9 (C)	-28.38	18	4.04	10	-7.63	21	-10.44	21	-19.05	19	-8.55	23	-5.07	16	-20.92	22	-14.43	22
22	APQH 9 (C)	-40.27	23	-21.69	23	-9.06	22	-19.1	23	-18.1	17	-2.21	13	-17.74	21	-16.36	17	-13.68	21
23	PUSA HM8 IMPROVED (C)	0	1	0	13	0	19	0	12	0	4	0	9	0	9	0	4	0	3

Table No. : 22 (Conti...) Gain in Yeild (%) over PUSA HM8 IMPROVED (C)

S. No.	Entry Name	PZ																		All India	
		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		VAGA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	-8.35	16	54.6	8	4.99	15	-9.12	16	18.75	12	-4.79	14	-31.2	23	-7.73	8	21.1	1	-6.87	13	-3.83	14
2	APH 2 (PROA)	-12.34	19	-11.27	23	-5.24	20	-19.33	21	-15.23	23	4.1	5	-25.3	21	-17	15	5.63	8	-12.9	21	-9.92	21
3	APH3 (PROA)	4.12	5	39.23	12	-5.22	19	12.78	5	9.72	17	3.92	6	-3.77	11	-17.5	17	-0.81	16	-7.21	14	-0.13	8
4	APQH 1 (QPM+PROA)	8.47	3	27.49	17	4.47	16	-1.01	13	48.73	3	1.36	8	7.25	3	-10.6	10	18.6	2	-1.37	6	-0.32	10
5	APQH 8 (QPM+PROA)	-4.29	12	2.54	20	17.15	12	-13.72	19	9.31	18	-17.91	21	-23.6	19	-14.1	12	-8.87	23	-11.9	19	-8.94	19
6	FQH 148	-1.94	10	53.09	9	7.07	13	-16	20	-7.42	22	-9.69	17	-9.97	13	-17	16	12	4	-9.85	17	-6.62	17
7	IIMRQPMH 1705	-6.78	15	69.83	3	36.13	3	16.27	3	44.71	5	-0.7	11	-1.43	8	-15.5	14	-3.99	18	-4.6	9	2.52	4
8	IIMRQPMH 1708	6.92	4	62.04	5	18.88	8	5.73	8	48.98	1	11.21	2	1.12	5	-19.7	19	-4.61	20	-5.93	12	0.66	6
9	IQPMH-18-2	-4.55	13	46.29	10	31.46	4	6.66	7	22.85	11	-5.71	15	-25.7	22	-11.2	11	12	5	-5.25	10	-0.27	9
10	IQPMH-18-4	-13.42	20	63.55	4	-6.54	22	4.55	9	-5.58	21	0.38	9	7.57	2	-15.3	13	-6.15	21	-8.1	16	-1.07	13
11	IQPMH-19-1	12.03	2	90.13	1	25.68	7	19.7	1	48.93	2	6.56	4	3.41	4	-19	18	-8.48	22	-4.08	8	2.42	5
12	IQPMH-19-2	-11.7	17	79.35	2	18.26	10	6.98	6	25.57	8	3.85	7	-24.5	20	-7.94	9	0.48	13	-5.29	11	-0.67	11
13	IQPMH-19-3	-6.4	14	61.08	6	27.52	6	-3.69	15	24.42	10	-4	13	-14.6	14	-1.25	4	-4.42	19	-1.93	7	-4.63	16
14	IQPMH-19-4	-1.68	9	35.11	13	39.14	1	16.64	2	12.49	15	-12.55	20	-3.3	10	-26.8	23	2.25	10	-9.91	18	-4.26	15
15	QPM MH-51	0.85	7	-6	22	-5.43	21	-12.59	18	12.99	14	-11.81	19	-20.8	18	-7.49	7	7.97	7	-7.53	15	-7.56	18
16	VEHQ 16-1	19.79	1	31.38	15	6.16	14	-9.97	17	12.11	16	9.9	3	-4.74	12	-4.22	6	5.24	9	0.38	4	3.21	1
17	Pratap QPM Hybrid (C)	-12.31	18	55.8	7	27.79	5	-1	12	26.84	6	-2.24	12	-15.4	15	-26.8	22	12.3	3	-12.6	20	-9.21	20
18	HQPM-1 (C)	-2.86	11	24.78	18	18.44	9	-1.5	14	48.57	4	-9.18	16	9.1	1	3.67	2	1.13	12	2.86	3	-1.05	12
19	HQPM-5 (C)	3.82	6	35.09	14	17.34	11	1.49	10	14.78	13	-10.74	18	-2.97	9	12.72	1	8	6	6.95	1	2.57	3
20	HQPM-7 (C)	-14.28	21	30.21	16	37.33	2	13.57	4	25.05	9	17.51	1	0.02	6	-1.47	5	1.95	11	3.5	2	2.82	2
21	Vivek QPM 9 (C)	-17.63	22	43.25	11	-0.12	18	-27.12	22	26.33	7	-29.45	23	-18.8	16	-23.5	21	-0.58	15	-19.7	23	-16	22
22	APQH 9 (C)	-19.08	23	4.97	19	-9.07	23	-31.59	23	8.69	19	-22.13	22	-20.3	17	-21.1	20	-2.29	17	-19.3	22	-17.9	23
23	PUSA HM8 IMPROVED (C)	0	8	0	21	0	17	0	11	0	20	0	10	0	7	0	3	0	14	0	5	0	7

Table No. : 22 (Conti...) Gain in Yeild (%) over Pratap QPM Hybrid (C)

S. No.	Entry Name	CWZ												NEPZ					
		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	1.14	16	-30.11	19	4.07	7	36.73	7	-43.84	21	-2.04	14	5.67	18	55.68	2	-6.73	12
2	APH 2 (PROA)	-11.71	20	-31.3	20	-28.59	22	38.32	5	-49.31	23	-17.13	22	-1.16	22	37.67	8	-6.74	13
3	APH3 (PROA)	23.68	8	-18.78	12	11.98	4	37.29	6	11.4	3	19.47	4	33.74	2	45.68	5	4.06	3
4	APQH 1 (QPM+PROA)	0.02	18	-29.11	18	-5.12	15	28.22	12	1.32	6	3.42	12	21.22	10	44.37	6	-6.04	11
5	APQH 8 (QPM+PROA)	0.49	17	-15.06	8	-3.61	12	11.36	19	-28.68	16	-5.55	17	22.65	9	32.22	11	-26.9	19
6	FQH 148	21.98	9	-20.78	14	-0.67	11	2.78	22	-38.8	19	-2.17	15	26.56	7	28.63	12	-27.38	21
7	IIMRQPMH 1705	40.78	3	-38.67	23	29.75	2	24.93	14	13.87	2	28.53	2	29.77	4	16.41	16	-19.14	17
8	IIMRQPMH 1708	54.53	1	-23.78	16	18.61	3	26.59	13	17.17	1	29.93	1	23.9	8	35.43	10	5.01	2
9	IQPMH-18-2	18.48	11	-8	4	6.16	5	35.13	9	-2.48	10	12.63	8	27.61	6	37.11	9	-0.66	8
10	IQPMH-18-4	32.41	5	-19.46	13	5.91	6	36.41	8	-6.23	11	15.92	5	19.36	11	42.08	7	4.04	4
11	IQPMH-19-1	44.4	2	-7.76	3	39.05	1	12.14	18	1.74	5	27.66	3	18.14	12	48.2	3	-7.15	14
12	IQPMH-19-2	28.81	7	-21.89	15	1.47	9	28.63	11	-0.49	8	13.44	7	16.42	13	26.65	13	-17.28	16
13	IQPMH-19-3	-26.51	22	-17.76	10	-8.91	16	19.57	17	-19.64	13	-11.57	20	10.71	15	59.89	1	-5.27	10
14	IQPMH-19-4	34.96	4	-25.91	17	2.54	8	7.57	20	-14.66	12	8.81	9	33.05	3	4.95	20	7.78	1
15	QPM MH-51	1.41	15	-37.27	22	-20.23	21	53.62	2	-45.68	22	-7.3	19	0.52	20	8.89	18	-10.84	15
16	VEHQ 16-1	20.05	10	-8.02	5	-4.3	13	38.59	4	-24.98	15	5.26	10	51.2	1	45.92	4	-22.84	18
17	Pratap QPM Hybrid (C)	0	19	0	1	0	10	0	23	0	7	0	13	0	21	0	23	0	7
18	HQPM-1 (C)	9.3	13	-12.33	6	-4.41	14	22.14	15	-0.98	9	4.77	11	-4.8	23	1.96	21	-1.59	9
19	HQPM-5 (C)	16.95	12	-13.69	7	-13.46	19	5.22	21	-31.4	17	-5.63	18	10.02	16	13.69	17	3.42	6
20	HQPM-7 (C)	31.31	6	-6.37	2	-9.25	17	53.9	1	2.26	4	15.61	6	4.67	19	1.29	22	3.47	5
21	Vivek QPM 9 (C)	-14.08	21	-16.27	9	-18.23	20	29.88	10	-43.27	20	-14.56	21	6.7	17	18.43	14	-32.14	22
22	APQH 9 (C)	-26.73	23	-32.35	21	-40.97	23	49.88	3	-33.96	18	-19.99	23	13.61	14	16.89	15	-42.28	23
23	PUSA HM8 IMPROVED (C)	1.53	14	-18.41	11	-12.06	18	21.93	16	-22.18	14	-4.71	16	29.37	5	6.21	19	-27.28	20

Table No. : 22 (Conti...) Gain in Yeild (%) over Pratap QPM Hybrid (C)

S. No.	Entry Name	NEPZ								NWPZ									
		DHOL		RANC		SABO		ZONE		IARI		KARN		LUDH		PANT		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	33.78	5	-1.63	21	-13.06	13	14.78	10	5.2	6	4.56	7	0.83	12	-2.56	12	1.76	9
2	APH 2 (PROA)	11.98	15	7.72	15	-33.79	23	7.96	16	7.02	5	11.23	1	-8.04	20	-2.79	13	2.01	8
3	APH3 (PROA)	17.84	11	19.84	6	-25.58	20	23.21	3	19.3	1	2.03	11	-7.95	19	-8.84	18	0.82	12
4	APQH 1 (QPM+PROA)	10.92	16	4.4	17	-1.37	7	13.5	11	16.31	3	1.86	12	-1.82	17	-4.44	15	2.64	7
5	APQH 8 (QPM+PROA)	-0.72	21	-8.08	22	-8.25	9	2.6	18	2.1	8	2.24	10	6.36	7	-3.6	14	1.21	10
6	FQH 148	4.09	19	12.72	11	-10.14	11	7.8	17	-12.49	21	-4.78	22	12.13	5	9.2	5	1.09	11
7	IIMRQPMH 1705	13.59	14	25.36	3	25.04	1	12.77	13	4.85	7	-4.08	21	39.17	2	11.88	2	11.67	1
8	IIMRQPMH 1708	26.44	7	2.43	18	-3.26	8	17.82	6	-4.68	12	-1.68	17	-0.32	14	1.34	9	-1.19	17
9	IQPMH-18-2	22.34	9	27.81	2	-1.09	5	21.81	4	-7.1	14	-2.46	18	5.59	8	4.76	6	0.27	15
10	IQPMH-18-4	35.27	4	23.48	5	-12.78	12	23.39	2	-13.04	23	7.74	5	22.9	3	-9.22	19	0.5	13
11	IQPMH-19-1	26.18	8	-1.46	20	-19.99	17	14.97	9	-9.76	18	7.49	6	40.14	1	1.47	8	7.99	2
12	IQPMH-19-2	27.68	6	33.48	1	23.17	2	16	7	-11.32	20	11.16	2	11.56	6	1.84	7	2.93	5
13	IQPMH-19-3	16.62	13	9.44	12	-18.59	16	15.75	8	-12.9	22	4.33	8	-34.45	23	-11	20	-12.3	23
14	IQPMH-19-4	41.1	2	13.31	9	-1.15	6	20.74	5	-5.12	13	-3.42	19	2.6	10	-11.4	21	-5.12	20
15	QPM MH-51	10.35	17	7.44	16	-20.91	18	2.55	19	0.93	9	0.17	14	-7.62	18	-5.51	16	-2.97	18
16	VEHQ 16-1	35.45	3	16.96	8	-9.89	10	24.15	1	-9.04	16	9.47	4	13.61	4	12.61	1	6.81	4
17	Pratap QPM Hybrid (C)	0	20	0	19	0	4	0	22	0	10	0	15	0	13	0	11	0	16
18	HQPM-1 (C)	-3.69	22	18.4	7	-13.55	15	1.7	20	16.56	2	-0.3	16	-19.09	22	-15.8	23	-4.81	19
19	HQPM-5 (C)	22.3	10	8.71	14	-13.5	14	11.25	14	-3.35	11	11.08	3	2.48	11	1.21	10	2.82	6
20	HQPM-7 (C)	16.68	12	24.62	4	15.49	3	10.08	15	-8.72	15	-4.03	20	-0.98	15	11.63	3	0.31	14
21	Vivek QPM 9 (C)	7.05	18	13.27	10	-27.84	21	1.22	21	-10.42	19	-6.09	23	-1.73	16	-13.5	22	-8.55	22
22	APQH 9 (C)	-10.72	23	-14.75	23	-28.96	22	-8.57	23	-9.37	17	0.42	13	-14.84	21	-8.47	17	-7.75	21
23	PUSA HM8 IMPROVED (C)	49.47	1	8.87	13	-21.88	19	13.02	12	10.66	4	2.69	9	3.52	9	9.44	4	6.87	3

Table No. : 22 **(Conti...)** **Gain in Yeild (%) over Pratap QPM Hybrid (C)**

S. No.	Entry Name	PZ																				All India	
		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		VAGA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	4.52	16	-0.77	8	-17.8	15	-8.2	16	-6.38	12	-2.61	14	-18.7	23	26	8	7.85	1	6.55	13	5.92	14
2	APH 2 (PROA)	-0.04	19	-43.1	23	-25.9	20	-18.5	21	-33.2	23	6.49	5	-11.7	21	13.4	15	-5.89	8	-0.34	21	-0.78	21
3	APH3 (PROA)	18.7	5	-10.6	12	-25.8	19	13.93	5	-13.5	17	6.31	6	13.72	11	12.7	17	-11.6	16	6.16	14	10	8
4	APQH 1 (QPM+PROA)	23.7	3	-18.2	17	-18.3	16	0	13	17.26	3	3.69	8	26.74	3	22.1	10	5.66	2	12.9	6	9.79	10
5	APQH 8 (QPM+PROA)	9.15	12	-34.2	20	-8.33	12	-12.8	19	-13.8	18	-16	21	-9.76	19	17.3	12	-18.8	23	0.77	19	0.3	19
6	FQH 148	11.8	10	-1.74	9	-16.2	13	-15.2	20	-27	22	-7.62	17	6.39	13	13.3	16	-0.19	4	3.15	17	2.85	17
7	IIMRQPMH 1705	6.31	15	9.01	3	6.52	3	17.45	3	14.08	5	1.58	11	16.48	8	15.3	14	-14.5	18	9.15	9	12.9	4
8	IIMRQPMH 1708	21.9	4	4	5	-6.98	8	6.8	8	17.46	1	13.76	2	19.49	5	9.71	19	-15	20	7.63	12	10.9	6
9	IQPMH-18-2	8.85	13	-6.1	10	2.87	4	7.75	7	-3.15	11	-3.55	15	-12.2	22	21.3	11	-0.25	5	8.4	10	9.84	9
10	IQPMH-18-4	-1.27	20	4.97	4	-26.9	22	5.61	9	-25.6	21	2.68	9	27.12	2	15.7	13	-16.4	21	5.14	16	8.97	13
11	IQPMH-19-1	27.8	2	22.04	1	-1.65	7	20.91	1	17.42	2	9	4	22.21	4	10.6	18	-18.5	22	9.74	8	12.8	5
12	IQPMH-19-2	0.7	17	15.12	2	-7.46	10	8.07	6	-1	8	6.23	7	-10.8	20	25.7	9	-10.5	13	8.36	11	9.41	11
13	IQPMH-19-3	6.75	14	3.39	6	-0.21	6	-2.71	15	-1.91	10	-1.8	13	0.98	14	34.9	4	-14.9	19	12.2	7	5.04	16
14	IQPMH-19-4	12.1	9	-13.3	13	8.88	1	17.82	2	-11.3	15	-10.6	20	14.28	10	-0.05	23	-8.91	10	3.08	18	5.46	15
15	QPM MH-51	15	7	-39.7	22	-26	21	-11.7	18	-10.9	14	-9.79	19	-6.35	18	26.3	7	-3.81	7	5.8	15	1.81	18
16	VEHQ 16-1	36.6	1	-15.7	15	-16.9	14	-9.05	17	-11.6	16	12.42	3	12.57	12	30.8	6	-6.24	9	14.9	4	13.7	1
17	Pratap QPM Hybrid (C)	0	18	0	7	0	5	0	12	0	6	0	12	0	15	0	22	0	3	0	20	0	20
18	HQPM-1 (C)	10.8	11	-19.9	18	-7.32	9	-0.5	14	17.13	4	-7.1	16	28.93	1	41.6	2	-9.9	12	17.7	3	8.98	12
19	HQPM-5 (C)	18.4	6	-13.3	14	-8.18	11	2.52	10	-9.51	13	-8.69	18	14.66	9	53.9	1	-3.78	6	22.4	1	13	3
20	HQPM-7 (C)	-2.25	21	-16.4	16	7.47	2	14.72	4	-1.41	9	20.21	1	18.2	6	34.6	5	-9.18	11	18.4	2	13.3	2
21	Vivek QPM 9 (C)	-6.06	22	-8.05	11	-21.8	18	-26.4	22	-0.41	7	-27.8	23	-4.09	16	4.47	21	-11.4	15	-8.08	23	-7.43	22
22	APQH 9 (C)	-7.72	23	-32.6	19	-28.9	23	-30.9	23	-14.3	19	-20.4	22	-5.82	17	7.81	20	-13	17	-7.62	22	-9.52	23
23	PUSA HM8 IMPROVED (C)	14	8	-35.8	21	-21.8	17	1.01	11	-21.2	20	2.29	10	18.17	7	36.6	3	-10.9	14	14.4	5	10.1	7

Table No. : 22 **(Conti...)** **Gain in Yeild (%) over Vivek QPM 9 (C)**

S. No.	Entry Name	CWZ												NEPZ					
		AMBI		BANS		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	17.71	16	-16.53	19	27.27	7	5.28	7	-1	21	14.66	14	-0.97	18	31.45	2	37.45	12
2	APH 2 (PROA)	2.76	20	-17.95	20	-12.67	22	6.5	5	-10.65	23	-3.01	22	-7.36	22	16.24	8	37.44	13
3	APH3 (PROA)	43.94	8	-3	12	36.94	4	5.71	6	96.38	3	39.83	4	25.35	2	23.01	5	53.36	3
4	APQH 1 (QPM+PROA)	16.41	18	-15.33	18	16.03	15	-1.27	12	78.61	6	21.05	12	13.61	10	21.9	6	38.47	11
5	APQH 8 (QPM+PROA)	16.96	17	1.44	8	17.87	12	-14.26	19	25.71	16	10.54	17	14.95	9	11.64	11	7.72	19
6	FQH 148	41.96	9	-5.39	14	21.47	11	-20.86	22	7.89	19	14.5	15	18.61	7	8.61	12	7.02	21
7	IIMRQPMH 1705	63.84	3	-26.76	23	58.67	2	-3.81	14	100.73	2	50.43	2	21.63	4	-1.71	16	19.16	17
8	IIMRQPMH 1708	79.85	1	-8.97	16	45.05	3	-2.53	13	106.54	1	52.07	1	16.12	8	14.35	10	54.75	2
9	IQPMH-18-2	37.89	11	9.88	4	29.83	5	4.04	9	71.9	10	31.83	8	19.6	6	15.77	9	46.4	8
10	IQPMH-18-4	54.1	5	-3.82	13	29.52	6	5.03	8	65.3	11	35.67	5	11.87	11	19.96	7	53.32	4
11	IQPMH-19-1	68.05	2	10.16	3	70.05	1	-13.65	18	79.34	5	49.41	3	10.72	12	25.13	3	36.84	14
12	IQPMH-19-2	49.91	7	-6.72	15	24.09	9	-0.96	11	75.41	8	32.78	7	9.11	13	6.94	13	21.9	16
13	IQPMH-19-3	-14.47	22	-1.79	10	11.4	16	-7.94	17	41.65	13	3.5	20	3.76	15	35.01	1	39.6	10
14	IQPMH-19-4	57.07	4	-11.52	17	25.4	8	-17.18	20	50.44	12	27.36	9	24.7	3	-11.39	20	58.84	1
15	QPM MH-51	18.02	15	-25.08	22	-2.45	21	18.28	2	-4.25	22	8.5	19	-5.79	20	-8.06	18	31.39	15
16	VEHQ 16-1	39.71	10	9.84	5	17.03	13	6.71	4	32.24	15	23.19	10	41.71	1	23.21	4	13.71	18
17	Pratap QPM Hybrid (C)	16.38	19	19.43	1	22.29	10	-23	23	76.28	7	17.04	13	-6.28	21	-15.56	23	47.37	7
18	HQPM-1 (C)	27.2	13	4.7	6	16.9	14	-5.96	15	74.56	9	22.62	11	-10.78	23	-13.91	21	45.02	9
19	HQPM-5 (C)	36.11	12	3.08	7	5.83	19	-18.99	21	20.92	17	10.45	18	3.11	16	-4.01	17	52.41	6
20	HQPM-7 (C)	52.82	6	11.82	2	10.98	17	18.5	1	80.27	4	35.32	6	-1.9	19	-14.47	22	52.48	5
21	Vivek QPM 9 (C)	0	21	0	9	0	20	0	10	0	20	0	21	0	17	0	14	0	22
22	APQH 9 (C)	-14.72	23	-19.21	21	-27.81	23	15.4	3	16.41	18	-6.36	23	6.47	14	-1.31	15	-14.93	23
23	PUSA HM8 IMPROVED (C)	18.16	14	-2.56	11	7.54	18	-6.12	16	37.18	14	11.53	16	21.25	5	-10.32	19	7.17	20

Table No. : 22 **(Conti...)** **Gain in Yeild (%) over Vivek QPM 9 (C)**

S. No.	Entry Name	NEPZ								NWPZ									
		DHOL		RANC		SABO		ZONE		IARI		KARN		LUDH		PANT		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	24.97	5	-13.16	21	20.47	13	13.4	10	17.44	6	11.35	7	2.6	12	12.6	12	11.3	9
2	APH 2 (PROA)	4.61	15	-4.9	15	-8.24	23	6.66	16	19.47	5	18.44	1	-6.42	20	12.33	13	11.6	8
3	APH3 (PROA)	10.08	11	5.8	6	3.13	20	21.73	3	33.18	1	8.65	11	-6.33	19	5.34	18	10.3	12
4	APQH 1 (QPM+PROA)	3.61	16	-7.83	17	36.68	7	12.14	11	29.84	3	8.47	12	-0.1	17	10.42	15	12.2	7
5	APQH 8 (QPM+PROA)	-7.25	21	-18.85	22	27.14	9	1.36	18	13.97	8	8.88	10	8.22	7	11.4	14	10.7	10
6	FQH 148	-2.76	19	-0.49	11	24.52	11	6.51	17	-2.31	21	1.4	22	14.1	5	26.19	5	10.5	11
7	IIMRQPMH 1705	6.11	14	10.67	3	73.28	1	11.41	13	17.05	7	2.14	21	41.61	2	29.28	2	22.1	1
8	IIMRQPMH 1708	18.12	7	-9.58	18	34.06	8	16.4	6	6.41	12	4.7	17	1.43	14	17.1	9	8.05	17
9	IQPMH-18-2	14.28	9	12.84	2	37.07	5	20.34	4	3.7	14	3.87	18	7.45	8	21.05	6	9.65	15
10	IQPMH-18-4	26.36	4	9.01	5	20.86	12	21.91	2	-2.92	23	14.73	5	25.05	3	4.9	19	9.9	13
11	IQPMH-19-1	17.87	8	-13	20	10.88	17	13.58	9	0.73	18	14.46	6	42.6	1	17.26	8	18.1	2
12	IQPMH-19-2	19.28	6	17.84	1	70.68	2	14.61	7	-1.01	20	18.38	2	13.52	6	17.68	7	12.6	5
13	IQPMH-19-3	8.94	13	-3.38	12	12.81	16	14.36	8	-2.77	22	11.1	8	-33.3	23	2.79	20	-4.15	23
14	IQPMH-19-4	31.81	2	0.03	9	36.98	6	19.29	5	5.91	13	2.85	19	4.4	10	2.34	21	3.76	20
15	QPM MH-51	3.08	17	-5.15	16	9.59	18	1.31	19	12.67	9	6.67	14	-5.99	18	9.19	16	6.11	18
16	VEHQ 16-1	26.53	3	3.26	8	24.87	10	22.66	1	1.54	16	16.57	4	15.6	4	30.12	1	16.8	4
17	Pratap QPM Hybrid (C)	-6.58	20	-11.72	19	38.58	4	-1.2	22	11.63	10	6.49	15	1.76	13	15.55	11	9.35	16
18	HQPM-1 (C)	-10.03	22	4.53	7	19.8	15	0.47	20	30.11	2	6.17	16	-17.67	22	-2.71	23	4.09	19
19	HQPM-5 (C)	14.25	10	-4.03	14	19.87	14	9.91	14	7.89	11	18.29	3	4.28	11	16.95	10	12.4	6
20	HQPM-7 (C)	9	12	10.01	4	60.04	3	8.75	15	1.9	15	2.19	20	0.76	15	28.99	3	9.7	14
21	Vivek QPM 9 (C)	0	18	0	10	0	21	0	21	0	19	0	23	0	16	0	22	0	22
22	APQH 9 (C)	-16.6	23	-24.74	23	-1.55	22	-9.67	23	1.17	17	6.93	13	-13.35	21	5.77	17	0.88	21
23	PUSA HM8 IMPROVED (C)	39.63	1	-3.88	13	8.26	19	11.66	12	23.53	4	9.35	9	5.34	9	26.46	4	16.9	3

Table No. : 22 **(Conti...)** **Gain in Yeild (%) over Vivek QPM 9 (C)**

S. No.	Entry Name	PZ																				All India	
		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		VAGA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH 1 (PROA)	11.3	16	7.92	8	5.12	15	24.7	16	-6	12	35	14	-15.2	23	20.6	8	21.8	1	15.9	13	14.4	14
2	APH 2 (PROA)	6.41	19	-38.1	23	-5.13	20	10.7	21	-32.9	23	47.6	5	-7.97	21	8.56	15	6.25	8	8.42	21	7.19	21
3	APH3 (PROA)	26.4	5	-2.81	12	-5.11	19	54.8	5	-13.2	17	47.3	6	18.57	11	7.87	17	-0.23	16	15.5	14	18.8	8
4	APQH 1 (QPM+PROA)	31.7	3	-11	17	4.59	16	35.8	13	17.73	3	43.7	8	32.14	3	16.8	10	19.3	2	22.8	6	18.6	10
5	APQH 8 (QPM+PROA)	16.2	12	-28.4	20	17.3	12	18.4	19	-13.5	18	16.4	21	-5.92	19	12.3	12	-8.33	23	9.62	19	8.35	19
6	FQH 148	19	10	6.87	9	7.19	13	15.3	20	-26.7	22	28	17	10.92	13	8.49	16	12.7	4	12.2	17	11.1	17
7	IIMRQPMH 1705	13.2	15	18.56	3	36.3	3	59.5	3	14.55	5	40.8	11	21.45	8	10.4	14	-3.42	18	18.7	9	22	4
8	IIMRQPMH 1708	29.8	4	13.11	5	19	8	45.1	8	17.93	1	57.6	2	24.59	5	5.01	19	-4.05	20	17.1	12	19.8	6
9	IQPMH-18-2	15.9	13	2.12	10	31.6	4	46.4	7	-2.76	11	33.7	15	-8.46	22	16.2	11	12.6	5	17.9	10	18.7	9
10	IQPMH-18-4	5.1	20	14.17	4	-6.43	22	43.5	9	-25.3	21	42.3	9	32.53	2	10.7	13	-5.59	21	14.4	16	17.7	13
11	IQPMH-19-1	36	2	32.72	1	25.8	7	64.2	1	17.89	2	51.1	4	27.41	4	5.86	18	-7.94	22	19.4	8	21.9	5
12	IQPMH-19-2	7.19	17	25.2	2	18.4	10	46.8	6	-0.6	8	47.2	7	-6.96	20	20.3	9	1.07	13	17.9	11	18.2	11
13	IQPMH-19-3	13.6	14	12.45	6	27.7	6	32.2	15	-1.51	10	36.1	13	5.29	14	29.1	4	-3.86	19	22.1	7	13.5	16
14	IQPMH-19-4	19.4	9	-5.69	13	39.3	1	60.1	2	-11	15	24	20	19.15	10	-4.33	23	2.85	10	12.1	18	13.9	15
15	QPM MH-51	22.4	7	-34.4	22	-5.32	21	19.9	18	-10.6	14	25	19	-2.36	18	20.9	7	8.6	7	15.1	15	9.99	18
16	VEHQ 16-1	45.4	1	-8.29	15	6.29	14	23.5	17	-11.3	16	55.8	3	17.37	12	25.2	6	5.86	9	24.9	4	22.8	1
17	Pratap QPM Hybrid (C)	6.45	18	8.76	7	27.9	5	35.8	12	0.41	6	38.6	12	4.26	15	-4.28	22	12.9	3	8.79	20	8.03	20
18	HQPM-1 (C)	17.9	11	-12.9	18	18.6	9	35.2	14	17.61	4	28.7	16	34.42	1	35.5	2	1.72	12	28	3	17.7	12
19	HQPM-5 (C)	26	6	-5.7	14	17.5	11	39.3	10	-9.14	13	26.5	18	19.55	9	47.4	1	8.63	6	33.1	1	22.1	3
20	HQPM-7 (C)	4.06	21	-9.11	16	37.5	2	55.8	4	-1.01	9	66.6	1	23.24	6	28.8	5	2.55	11	28.8	2	22.4	2
21	Vivek QPM 9 (C)	0	22	0	11	0	18	0	22	0	7	0	23	0	16	0	21	0	15	0	23	0	22
22	APQH 9 (C)	-1.76	23	-26.7	19	-8.96	23	-6.13	23	-14	19	10.4	22	-1.8	17	3.2	20	-1.72	17	0.49	22	-2.25	23
23	PUSA HM8 IMPROVED (C)	21.4	8	-30.2	21	0.12	17	37.2	11	-20.8	20	41.8	10	23.21	7	30.7	3	0.59	14	24.5	5	19	7

Table No. : 22 (Conti...)		Number of Cobs																	
S. No.	Entry Name	CWZ						NEPZ							NWPZ				
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE	IARI	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APH 1 (PROA)	56	55	67	45	55	55	66	66	71	66	56	75	67	52	83	72	76	71
2	APH 2 (PROA)	44	53	46	47	47	47	63	66	72	66	63	74	67	47	84	69	67	67
3	APH3 (PROA)	65	57	71	47	67	61	75	65	78	71	65	78	72	49	84	71	87	73
4	APQH 1 (QPM+PROA)	53	55	69	41	65	57	70	66	73	73	63	76	70	44	82	72	72	67
5	APQH 8 (QPM+PROA)	58	54	64	46	57	56	71	65	72	73	54	80	69	46	81	71	76	69
6	FQH 148	63	58	72	44	57	59	69	65	72	76	66	78	71	47	83	73	83	71
7	IIMRQPMH 1705	74	54	73	48	69	64	74	65	78	70	71	73	72	52	83	74	82	73
8	IIMRQPMH 1708	77	56	79	48	63	65	71	66	74	72	59	80	70	45	83	71	87	72
9	IQPMH-18-2	64	56	70	47	69	61	70	66	73	76	67	77	71	56	82	72	85	74
10	IQPMH-18-4	70	56	74	51	71	64	69	66	73	78	62	79	71	48	83	74	81	72
11	IQPMH-19-1	73	60	78	49	66	65	71	66	76	74	57	79	71	49	83	78	78	72
12	IQPMH-19-2	71	57	67	45	66	61	68	65	74	78	70	79	72	44	84	76	87	72
13	QPM MH-51	52	52	47	50	51	50	65	67	74	62	64	76	68	46	83	68	73	68
14	VEHQ 16-1	65	57	54	47	55	56	66	64	73	79	69	79	72	39	82	76	82	70
15	IQPMH-19-3	43	53	70	46	66	56	67	67	74	75	63	76	70	45	83	71	66	66
16	IQPMH-19-4	70	56	75	45	64	62	71	67	73	81	67	78	73	50	85	74	82	73
17	PUSA HM8 IMPROVED (C)	58	52	59	48	61	56	72	65	75	74	61	79	71	53	83	71	77	71
18	Pratap QPM Hybrid (C)	58	57	70	44	59	58	69	66	76	71	63	78	71	51	83	71	85	73
19	HQPM-1 (C)	60	58	65	49	66	59	73	66	71	70	61	78	70	45	83	69	71	67
20	HQPM-5 (C)	61	65	54	45	47	54	66	66	71	66	66	77	69	43	82	71	66	66
21	HQPM-7 (C)	68	57	59	49	58	58	65	65	73	69	71	77	70	44	81	75	81	70
22	APQH 9 (C)	47	52	61	48	67	55	63	66	72	71	56	77	68	56	83	71	71	70
23	Vivek QPM 9 (C)	52	56	70	51	57	57	66	67	74	77	64	80	71	51	82	72	74	70
	Location Mean	60.9	55.8	65.8	47.0	61.0	58.1	68.7	65.7	73.6	72.5	63.4	77.6	70.2	47.9	82.8	72.4	77.8	70.2
	CV (%)	6.4	11.9	9.8	7.9	12.5	10.1	9.1	2.7	3.2	7.4	11.0	3.4	6.7	8.4	2.3	4.7	7.5	5.8
	F (Prob)	0.0	0.9	0.0	0.2	0.0	0.0	0.7	0.9	0.0	0.0	0.2	0.1	0.0	0.0	0.7	0.2	0.0	0.0
	CD (5%)	6.5	11.0	10.6	6.1	12.5	4.2	10.3	2.9	3.8	8.9	11.5	4.3	3.1	6.7	3.1	5.6	9.7	3.3
	CD (1%)	8.6	14.6	14.2	8.2	16.8	5.6	13.8	3.9	5.1	11.8	15.3	5.8	4.1	8.9	4.1	7.5	12.9	4.3

Table No. : 22 (Conti...)		Number of Cobs											Ear Height (cm)										
S. No.	Entry Name	PZ											CWZ						NEPZ				
		COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India	AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APH 1 (PROA)	60	67	62	67	67	64	76	74	58	66	65	76	58	65	87	62	69	97	96	69	89	82
2	APH 2 (PROA)	62	58	62	65	64	60	71	75	57	64	62	87	70	70	72	83	77	95	90	77	91	91
3	APH3 (PROA)	62	75	63	74	68	58	73	76	57	67	68	94	62	85	77	88	81	105	98	89	100	86
4	APQH 1 (QPM+PROA)	63	69	65	68	70	59	74	78	59	67	66	83	97	82	83	80	85	91	91	72	88	83
5	APQH 8 (QPM+PROA)	61	66	65	65	63	61	76	74	54	65	65	74	70	58	95	67	73	78	76	77	75	76
6	FQH 148	62	79	65	67	66	59	75	79	60	68	67	89	67	70	93	80	80	96	98	74	96	78
7	IIMRQPMH 1705	62	81	65	72	67	68	73	79	59	70	69	98	67	84	80	83	82	111	97	74	85	97
8	IIMRQPMH 1708	63	79	64	68	66	63	77	77	54	68	68	94	77	92	83	97	89	103	101	73	92	99
9	IQPMH-18-2	62	73	68	70	64	67	76	77	61	69	69	100	82	89	85	100	91	119	96	94	104	105
10	IQPMH-18-4	61	73	62	70	62	62	74	78	60	67	68	97	90	84	90	107	94	115	95	96	87	99
11	IQPMH-19-1	63	74	68	69	73	62	80	77	58	69	69	100	73	95	87	90	89	103	72	78	104	108
12	IQPMH-19-2	62	76	62	74	68	62	78	75	60	69	69	86	70	79	90	73	80	96	82	70	97	89
13	QPM MH-51	63	61	62	65	61	61	74	76	53	64	63	103	79	104	82	87	91	125	103	86	98	117
14	VEHQ 16-1	64	74	63	65	68	66	80	75	56	68	67	94	93	70	85	90	86	108	84	83	82	93
15	IQPMH-19-3	62	74	67	67	64	71	72	74	59	68	66	80	67	79	87	87	80	88	94	76	99	97
16	IQPMH-19-4	62	78	67	79	67	65	77	76	59	70	69	79	72	54	75	70	70	93	72	62	82	83
17	PUSA HM8 IMPROVED (C)	63	56	63	68	61	59	73	74	60	64	65	81	80	55	87	80	77	83	74	81	96	81
18	Pratap QPM Hybrid (C)	61	77	64	71	67	70	75	76	55	69	67	80	75	63	88	75	76	92	81	81	91	81
19	HQPM-1 (C)	61	69	65	68	65	64	77	78	56	67	66	96	78	80	88	87	86	105	96	78	96	87
20	HQPM-5 (C)	63	64	62	66	64	53	74	77	57	64	64	88	82	75	82	73	80	94	95	78	82	89
21	HQPM-7 (C)	61	73	67	73	65	65	75	78	58	68	67	85	85	63	83	73	78	98	75	71	86	68
22	APQH 9 (C)	60	69	63	65	65	57	75	77	59	66	65	82	80	61	90	85	80	93	83	70	84	85
23	Vivek QPM 9 (C)	60	74	63	65	69	59	73	76	55	66	66	76	62	57	82	65	68	81	84	63	96	73
	Location Mean	61.8	71.3	64.2	68.8	65.8	62.5	75.1	76.3	57.6	67.0	66.5	87.9	75.4	74.6	84.8	81.8	80.9	98.5	88.3	77.0	91.3	89.0
	CV (%)	2.2	6.5	5.6	4.8	5.2	9.2	5.0	3.6	4.1	5.4	6.8	4.8	15.8	13.3	10.2	16.0	12.4	8.1	14.2	9.5	13.8	9.0
	F (Prob)	0.0	0.0	0.6	0.0	0.0	0.1	0.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.4	0.0
	CD (5%)	2.3	7.6	5.9	5.4	5.7	9.5	6.2	4.5	3.9	2.0	1.5	7.0	19.6	16.3	14.2	21.5	7.2	13.1	20.6	12.1	20.8	13.2
	CD (1%)	3.0	10.2	7.9	7.3	7.6	12.6	8.2	6.0	5.2	2.6	1.9	9.3	26.2	21.8	18.9	28.7	9.5	17.5	27.5	16.1	27.7	17.7

Table No. : 22	(Conti...)	Ear Height (cm)																					
S. No.	Entry Name	NWPZ							PZ										All India	CWZ			
		SABO	ZONE	IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE		AMBI	BANS	CHIN	GODH
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APH 1 (PROA)	72	84	89	74	87	110	90	100	76	60	55	35	92	68	100	70	73	78	63	59	78	64
2	APH 2 (PROA)	67	85	99	86	98	127	103	105	70	74	68	35	110	97	97	61	80	84	49	57	51	70
3	APH3 (PROA)	78	93	131	89	95	139	114	120	89	84	85	33	121	97	108	65	89	92	70	60	78	70
4	APQH 1 (QPM+PROA)	67	82	105	81	87	112	96	105	73	68	76	38	112	92	101	65	81	85	63	56	70	65
5	APQH 8 (QPM+PROA)	62	74	93	67	87	94	85	108	75	79	77	38	108	95	98	60	82	79	63	57	68	68
6	FQH 148	78	87	102	80	103	122	102	100	63	70	56	43	104	88	109	63	77	84	69	58	81	65
7	IIMRQPMH 1705	95	93	118	98	120	135	118	100	76	83	68	43	109	105	103	66	84	92	77	58	81	67
8	IIMRQPMH 1708	68	89	109	90	105	125	107	107	81	85	85	43	107	97	97	65	85	91	83	57	82	72
9	IQPMH-18-2	78	99	153	100	112	143	127	125	99	87	81	47	127	115	103	74	95	101	68	58	76	68
10	IQPMH-18-4	88	97	117	93	107	135	113	116	90	80	92	47	124	127	126	79	98	99	75	59	80	72
11	IQPMH-19-1	73	89	117	97	117	150	120	111	92	91	88	42	119	108	111	69	92	96	79	61	80	71
12	IQPMH-19-2	83	86	109	93	105	114	105	96	77	72	79	48	107	80	103	65	81	86	76	60	80	66
13	QPM MH-51	102	105	138	95	122	144	125	119	100	96	82	53	120	118	126	69	98	103	55	57	76	66
14	VEHQ 16-1	73	87	122	77	82	124	101	104	75	89	70	42	109	98	109	67	85	88	75	59	82	63
15	IQPMH-19-3	67	87	108	86	95	111	100	102	69	74	64	43	108	93	107	70	81	85	58	55	60	71
16	IQPMH-19-4	67	77	91	87	107	122	102	99	64	58	51	33	102	78	97	56	71	77	70	60	68	68
17	PUSA HM8 IMPROVED (C)	68	81	100	87	98	107	98	99	68	69	69	43	111	87	98	59	78	82	64	58	81	64
18	Pratap QPM Hybrid (C)	82	85	101	92	95	119	102	100	65	74	75	38	116	90	104	60	80	84	64	60	78	70
19	HQPM-1 (C)	73	89	123	95	98	133	112	111	75	79	84	42	124	103	104	68	88	92	64	53	59	65
20	HQPM-5 (C)	78	86	108	92	100	133	108	106	82	87	80	40	122	85	107	67	86	89	75	58	72	74
21	HQPM-7 (C)	72	78	92	83	83	111	92	90	62	62	58	37	91	80	102	58	71	78	63	59	77	58
22	APQH 9 (C)	65	80	102	82	93	117	99	99	65	70	62	37	93	87	113	62	76	82	55	57	72	68
23	Vivek QPM 9 (C)	55	75	85	75	108	109	94	112	76	65	72	38	107	87	109	61	81	79	60	59	77	75
	Location Mean	74.4	86.4	109.2	86.9	100.1	123.3	104.9	105.8	76.6	76.3	73.0	40.9	110.5	94.6	105.7	65.1	83.2	87.1	66.8	58.2	74.2	67.8
	CV (%)	14.4	11.7	6.5	10.4	13.9	9.2	10.2	5.9	14.9	11.3	10.6	18.0	5.3	9.7	9.8	8.0	9.9	10.9	5.9	6.3	7.2	8.5
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.8	0.0	0.2
	CD (5%)	17.6	6.6	11.6	14.9	22.9	18.7	8.6	10.3	18.7	14.2	12.7	12.1	9.5	15.0	17.0	8.6	4.4	3.1	6.5	6.0	8.8	9.5
	CD (1%)	23.5	8.7	15.5	19.9	30.5	25.0	11.3	13.8	25.0	19.0	16.9	16.2	12.8	20.1	22.7	11.5	5.8	4.1	8.7	8.1	11.8	12.7

Table No. : 22 **(Conti...)** **Final Plant Stand (000/ha)**

S. No.	Entry Name			NEPZ							NWPZ					PZ						
		UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE	IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APH 1 (PROA)	68	66	73	69	77	70	58	78	71	62	67	73	64	67	64	70	65	70	72	73	90
2	APH 2 (PROA)	55	56	66	69	77	73	66	77	71	50	69	71	56	62	65	60	65	67	68	66	85
3	APH3 (PROA)	71	70	77	66	83	77	66	81	75	63	68	74	68	68	65	78	66	77	72	65	87
4	APQH 1 (QPM+PROA)	72	65	73	68	79	77	56	81	72	53	67	70	64	64	64	69	67	67	67	68	90
5	APQH 8 (QPM+PROA)	74	66	74	68	81	80	62	82	74	60	68	69	64	65	66	58	66	72	66	65	87
6	FQH 148	66	68	73	68	77	82	67	81	74	52	68	75	68	65	65	82	67	71	69	72	89
7	IIMRQPMH 1705	72	71	77	68	83	76	68	75	75	62	68	77	67	68	66	82	68	76	73	75	87
8	IIMRQPMH 1708	73	73	74	67	81	77	60	82	74	54	67	71	68	65	65	81	67	71	70	72	91
9	IQPMH-18-2	75	69	73	68	80	81	66	80	75	66	68	74	68	69	65	76	71	73	68	73	90
10	IQPMH-18-4	76	72	72	68	77	84	64	81	74	56	68	76	67	67	65	75	65	74	67	68	88
11	IQPMH-19-1	76	74	74	68	80	80	60	81	74	61	67	77	65	67	66	77	70	72	77	68	95
12	IQPMH-19-2	72	71	70	67	81	84	68	82	75	64	67	75	68	69	66	79	65	77	72	70	92
13	QPM MH-51	75	66	72	69	81	81	65	79	74	58	68	76	55	64	65	77	70	70	67	78	86
14	VEHQ 16-1	70	70	75	68	79	86	70	81	77	60	69	72	67	67	65	79	70	82	71	70	91
15	IQPMH-19-3	65	62	68	69	79	67	67	79	72	56	68	70	59	63	65	64	65	68	66	66	88
16	IQPMH-19-4	62	65	73	66	80	82	72	81	76	47	67	78	68	65	66	77	65	67	73	72	94
17	PUSA HM8 IMPROVED (C)	67	67	72	68	82	74	66	81	74	67	67	75	69	69	65	79	67	74	71	74	88
18	Pratap QPM Hybrid (C)	74	69	75	68	80	76	63	82	74	56	68	73	59	64	65	72	67	71	69	72	92
19	HQPM-1 (C)	55	59	69	69	77	70	69	79	72	51	67	70	55	61	66	67	65	69	68	64	88
20	HQPM-5 (C)	66	69	73	67	80	73	74	80	75	48	67	79	66	65	66	76	70	76	69	74	89
21	HQPM-7 (C)	71	66	73	68	78	78	65	78	74	52	68	74	60	63	65	72	68	71	74	67	88
22	APQH 9 (C)	72	65	66	67	78	75	59	80	71	66	68	73	59	67	63	72	65	68	71	64	89
23	Vivek QPM 9 (C)	70	68	73	68	81	81	67	81	75	59	66	74	62	65	64	77	65	68	72	66	87
	Location Mean	69.4	67.2	72.5	68.0	79.6	77.6	65.1	80.0	73.8	57.5	67.6	73.8	63.6	65.6	65.1	73.9	66.9	71.8	70.0	69.6	89.2
	CV (%)	8.0	7.4	7.8	2.4	2.6	6.4	9.9	3.0	5.8	7.8	1.8	5.7	5.9	5.6	2.0	6.3	5.6	5.0	5.4	8.3	4.9
	F (Prob)	0.0	0.0	0.7	0.6	0.0	0.0	0.1	0.2	0.0	0.0	0.5	0.2	0.0	0.0	0.4	0.0	0.6	0.0	0.0	0.1	0.4
	CD (5%)	9.1	3.6	9.3	2.7	3.4	8.1	10.6	4.0	2.8	7.4	2.0	6.9	6.2	2.9	2.1	7.6	6.2	5.9	6.2	9.5	7.2
	CD (1%)	12.2	4.7	12.5	3.5	4.6	10.8	14.2	5.4	3.7	9.9	2.7	9.2	8.2	3.9	2.8	10.2	8.2	7.9	8.2	12.6	9.6

Table No. : 22 (Conti...)		Moisture %																					
						CWZ						NEPZ							NWPZ				
S. No.	Entry Name	RAHU	VAGA	ZONE	All India	AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE	IARI	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APH 1 (PROA)	243	60	90	76	14.0	16.1	12.8	18.6	19.1	16.1	24.0	22.8	20.4	22.9	23.5	28.2	23.6	25.8	21.7	18.1	20.9	21.6
2	APH 2 (PROA)	261	59	88	73	14.2	16.4	16.5	16.1	22.0	17.0	23.8	23.2	20.3	27.8	23.4	29.9	24.7	28.9	22.6	21.5	23.4	24.1
3	APH3 (PROA)	248	60	91	79	14.3	16.3	14.8	17.2	21.1	16.7	21.5	23.2	20.2	26.6	22.4	28.7	23.8	28.7	22.3	20.1	22.1	23.3
4	APQH 1 (QPM+PROA)	244	57	88	75	14.0	16.4	14.5	18.4	21.3	16.9	21.0	24.9	20.4	26.7	22.6	30.2	24.3	27.4	23.1	21.6	25.3	24.3
5	APQH 8 (QPM+PROA)	247	62	88	76	14.0	16.0	12.6	18.7	20.5	16.3	21.2	23.7	20.1	18.8	22.8	28.5	22.5	26.7	22.4	20.0	22.2	22.8
6	FQH 148	262	63	93	79	14.7	15.7	12.4	18.0	20.8	16.3	22.1	23.2	20.0	18.7	22.3	25.8	22.0	24.3	23.3	17.0	18.6	20.8
7	IIMRQPMH 1705	248	61	93	80	14.3	15.9	14.1	16.0	21.0	16.3	23.3	23.2	20.0	25.4	22.8	30.3	24.1	27.7	21.4	21.6	22.1	23.2
8	IIMRQPMH 1708	250	56	91	79	14.6	16.5	16.3	19.2	22.6	17.8	24.9	25.8	20.4	27.5	23.2	27.8	24.9	33.0	24.2	22.6	20.0	24.9
9	IQPMH-18-2	250	63	92	79	14.3	16.5	14.9	18.5	18.1	16.5	22.1	22.9	19.9	23.0	22.2	28.1	23.0	28.2	25.3	18.8	20.0	23.1
10	IQPMH-18-4	248	62	90	79	14.6	16.0	15.7	19.5	21.2	17.4	23.5	22.2	20.0	24.0	22.6	28.4	23.4	29.5	22.6	19.7	20.3	23.0
11	IQPMH-19-1	260	60	94	80	14.6	16.4	16.4	18.1	22.0	17.5	26.0	23.6	20.8	29.7	22.4	29.7	25.4	30.9	21.6	22.7	20.6	24.0
12	IQPMH-19-2	252	63	93	80	14.7	16.3	15.0	18.8	20.5	17.1	23.1	24.1	19.5	22.6	22.8	27.2	23.2	26.8	23.6	19.6	18.0	22.0
13	QPM MH-51	246	61	91	77	14.0	16.2	15.4	17.7	22.2	17.1	22.5	24.0	19.4	24.0	23.4	28.6	23.6	28.4	22.0	20.0	20.3	22.7
14	VEHQ 16-1	243	61	93	80	14.8	15.8	14.7	19.5	20.0	16.9	23.3	23.8	19.5	24.0	23.3	27.4	23.5	29.0	24.0	21.3	21.9	24.0
15	IQPMH-19-3	242	55	86	74	13.8	16.0	15.1	16.7	20.6	16.4	23.5	24.1	20.0	24.2	22.4	28.1	23.7	30.1	21.5	20.6	23.3	23.9
16	IQPMH-19-4	254	59	92	78	14.0	16.1	14.4	18.7	19.7	16.6	22.4	23.7	19.3	21.0	22.5	26.3	22.5	28.1	22.4	18.4	23.0	23.0
17	PUSA HM8 IMPROVED (C)	246	58	91	78	13.9	15.9	14.2	19.2	21.5	16.9	21.4	23.8	19.5	23.6	22.2	29.5	23.3	30.3	22.6	19.3	19.9	23.0
18	Pratap QPM Hybrid (C)	257	58	91	78	14.3	16.5	16.8	17.8	22.3	17.5	23.1	24.2	20.5	24.9	22.3	28.4	23.9	28.8	23.6	19.5	23.5	23.8
19	HQPM-1 (C)	246	60	88	73	14.6	16.5	17.0	18.9	22.0	17.8	25.9	23.2	19.9	26.6	22.5	28.8	24.5	30.9	22.2	22.9	25.3	25.3
20	HQPM-5 (C)	250	61	92	79	14.2	16.4	15.7	19.1	21.8	17.4	23.4	24.5	19.9	26.0	22.8	28.1	24.1	29.2	23.9	18.5	21.9	23.4
21	HQPM-7 (C)	252	62	91	77	14.3	15.7	13.5	18.7	19.1	16.2	20.6	20.7	19.6	18.3	22.3	26.4	21.3	24.7	23.5	15.4	19.5	20.8
22	APQH 9 (C)	247	61	89	76	13.4	16.2	12.9	18.7	19.1	16.0	21.6	22.5	19.0	17.5	21.8	25.6	21.3	25.2	22.4	15.5	16.8	20.0
23	Vivek QPM 9 (C)	251	58	90	77	14.1	16.0	13.6	18.6	19.6	16.4	20.4	23.9	19.8	17.4	21.9	26.0	21.6	24.4	22.9	17.9	17.7	20.7
	Location Mean	249.9	60.1	90.7	77.4	14.2	16.1	14.8	18.3	20.8	16.8	22.8	23.5	19.9	23.5	22.6	28.1	23.4	28.1	22.8	19.7	21.1	22.9
	CV (%)	3.0	4.1	4.9	5.7	2.9	2.1	7.6	7.4	0.0	4.9	5.3	2.5	2.1	3.7	3.2	5.6	4.2	8.0	4.2	4.5	10.2	7.4
	F (Prob)	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	12.2	4.1	2.4	1.4	0.7	0.6	1.8	2.2	0.0	0.6	2.0	1.0	0.7	1.4	1.2	2.6	0.7	3.7	1.6	1.5	3.5	1.4
	CD (1%)	16.3	5.5	3.1	1.9	0.9	0.7	2.5	3.0	0.0	0.8	2.7	1.3	0.9	1.9	1.7	3.5	0.9	4.9	2.1	2.0	4.7	1.8

Table No. : 22	(Conti...)	Moisture %											Days to 75% Dry husk									
S. No.	Entry Name	PZ										All India	CWZ						NEPZ			
		COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APH 1 (PROA)	15.9	14.1	18.6	15.5	17.3	13.8	16.7	17.6	14.6	16.0	18.9	87	86	97	89	87	89	88	84	90	90
2	APH 2 (PROA)	16.1	13.4	21.2	17.3	19.0	15.8	20.4	17.9	14.4	17.3	20.2	91	83	97	89	89	90	89	88	93	92
3	APH3 (PROA)	15.9	13.8	17.7	16.6	18.1	15.8	20.1	18.4	13.4	16.6	19.5	90	85	94	90	89	90	86	85	90	89
4	APQH 1 (QPM+PROA)	16.3	16.6	20.9	18.2	19.1	14.4	22.7	17.6	14.8	17.8	20.3	92	86	101	86	93	92	92	90	94	102
5	APQH 8 (QPM+PROA)	15.7	17.8	19.4	16.4	17.0	13.7	18.6	18.7	15.5	17.0	19.2	88	81	95	91	89	89	85	82	89	83
6	FQH 148	15.7	13.2	20.4	17.7	17.5	15.4	19.1	17.7	13.4	16.7	18.6	89	85	90	89	87	88	84	81	85	80
7	IIMRQPMH 1705	16.0	11.7	21.0	18.1	16.6	14.6	20.2	18.4	15.4	16.9	19.6	92	86	95	89	90	90	89	86	88	88
8	IIMRQPMH 1708	15.9	16.7	22.6	20.1	17.5	16.2	21.2	19.3	15.5	18.3	21.0	95	85	99	90	91	92	90	89	92	93
9	IQPMH-18-2	15.8	11.1	19.3	16.0	17.5	14.0	18.2	17.8	14.5	16.0	19.0	92	86	97	88	91	91	90	83	88	86
10	IQPMH-18-4	16.0	10.8	14.2	17.1	19.0	14.4	17.8	17.4	14.4	15.7	19.2	91	85	98	90	91	91	89	85	91	90
11	IQPMH-19-1	16.7	15.6	22.9	18.6	18.1	15.3	22.0	17.8	13.9	17.9	20.7	95	86	99	88	93	92	92	89	94	91
12	IQPMH-19-2	15.9	14.7	19.7	16.3	17.4	14.7	18.9	17.7	14.7	16.7	19.3	90	84	99	89	89	90	91	83	89	86
13	QPM MH-51	15.9	13.7	20.6	17.4	17.0	15.1	16.1	18.4	14.9	16.6	19.5	89	86	98	89	91	91	92	86	91	91
14	VEHQ 16-1	15.7	12.4	20.2	17.4	17.9	14.2	18.3	18.4	15.6	16.7	19.7	90	88	95	91	89	91	86	86	87	85
15	IQPMH-19-3	16.6	15.6	18.5	16.7	17.2	15.0	18.7	18.1	15.0	16.8	19.6	91	86	99	91	90	91	92	88	91	90
16	IQPMH-19-4	16.0	10.4	17.3	16.0	18.2	15.2	18.4	17.7	14.2	15.9	18.9	88	85	98	89	88	90	88	85	88	89
17	PUSA HM8 IMPROVED (C)	15.7	15.9	21.9	18.1	18.1	13.5	19.8	18.5	14.9	17.4	19.7	92	85	101	90	92	92	93	83	92	91
18	Pratap QPM Hybrid (C)	16.2	12.0	21.9	17.6	18.8	15.7	20.6	17.7	16.2	17.4	20.1	93	85	103	90	93	93	93	88	94	102
19	HQPM-1 (C)	15.9	14.4	20.5	17.2	18.7	15.4	19.8	17.4	15.1	17.1	20.5	95	88	100	89	91	93	93	90	94	97
20	HQPM-5 (C)	15.4	14.0	21.5	15.7	18.4	14.8	18.3	18.6	14.1	16.7	19.8	94	85	101	90	92	92	93	89	94	101
21	HQPM-7 (C)	16.0	9.4	12.3	14.6	17.4	13.9	17.5	17.9	12.9	14.6	17.7	86	82	89	90	85	86	87	80	86	83
22	APQH 9 (C)	15.5	9.6	14.9	14.1	17.3	14.0	17.9	18.5	13.2	15.0	17.6	86	83	87	92	87	87	84	79	87	80
23	Vivek QPM 9 (C)	16.0	17.0	18.0	17.3	17.9	15.8	18.5	18.1	13.8	16.9	18.6	87	84	96	92	88	89	85	83	88	82
	Location Mean	15.9	13.6	19.4	17.0	17.9	14.8	19.1	18.1	14.5	16.7	19.4	90.5	84.9	96.8	89.7	89.9	90.4	89.1	85.3	90.2	89.7
	CV (%)	1.9	9.8	11.1	6.3	2.9	3.1	7.1	4.2	3.7	6.6	5.9	1.3	2.0	2.1	2.4	1.7	1.9	2.4	2.2	1.7	2.2
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	0.5	2.2	3.6	1.8	0.9	0.8	2.2	1.2	0.9	0.6	0.4	2.0	2.7	3.4	3.6	2.5	1.3	3.5	3.1	2.4	3.3
	CD (1%)	0.7	2.9	4.7	2.4	1.2	1.0	3.0	1.7	1.2	0.8	0.5	2.6	3.7	4.5	4.8	3.3	1.7	4.7	4.1	3.3	4.4

Table No. : 22	(Conti...)	Days to 75% Dry husk																					
S. No.	Entry Name	NWPZ								PZ										All India	CWZ		
		RANC	SABO	ZONE	IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE		AMBI	BANS	CHIN
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APH 1 (PROA)	84	84	87	84	88	92	99	91	92	99	87	87	96	89	81	95	94	91	90	46	50	51
2	APH 2 (PROA)	84	85	88	85	89	91	101	92	93	101	90	90	98	95	82	98	95	94	91	48	49	57
3	APH3 (PROA)	85	85	87	81	88	85	104	90	93	106	90	97	97	91	84	98	96	95	91	49	50	58
4	APQH 1 (QPM+PROA)	85	90	92	89	90	92	104	94	94	101	92	96	99	99	84	98	96	95	94	48	51	58
5	APQH 8 (QPM+PROA)	80	81	83	83	89	91	100	91	94	103	89	97	97	94	83	99	97	95	90	46	49	53
6	FQH 148	79	79	81	82	87	84	101	88	90	96	87	87	99	88	82	95	92	90	87	48	51	53
7	IIMRQPMH 1705	84	82	86	84	85	89	103	90	92	100	88	95	97	92	83	99	94	94	91	49	51	56
8	IIMRQPMH 1708	85	86	89	86	89	95	105	94	94	101	92	96	95	100	85	101	97	96	93	49	51	57
9	IQPMH-18-2	85	87	87	89	92	91	103	94	92	99	92	97	101	93	84	97	96	95	92	49	51	58
10	IQPMH-18-4	84	86	88	85	92	95	103	94	93	100	89	96	100	86	82	97	95	93	91	48	50	57
11	IQPMH-19-1	85	79	88	86	89	94	106	94	93	99	91	100	101	97	84	99	96	96	93	48	51	59
12	IQPMH-19-2	82	82	86	87	90	88	101	91	93	99	89	93	98	91	81	98	92	93	90	46	50	54
13	QPM MH-51	84	86	88	85	88	88	105	92	93	102	91	98	96	93	81	99	96	94	92	48	50	59
14	VEHQ 16-1	82	85	85	86	89	90	105	93	93	100	90	94	93	90	82	98	96	93	90	49	51	56
15	IQPMH-19-3	84	87	89	88	85	95	106	93	93	100	92	96	97	95	84	98	97	95	92	48	51	57
16	IQPMH-19-4	81	85	86	84	87	88	101	90	90	102	87	85	96	98	83	97	95	93	90	47	50	55
17	PUSA HM8 IMPROVED (C)	84	87	88	85	87	95	103	93	92	101	89	97	103	96	83	99	93	95	92	47	50	57
18	Pratap QPM Hybrid (C)	83	86	91	91	92	95	105	96	95	104	92	99	100	103	83	99	97	97	94	48	51	58
19	HQPM-1 (C)	85	88	91	88	91	94	106	95	95	102	91	92	99	100	84	99	96	95	94	48	53	59
20	HQPM-5 (C)	85	87	91	82	91	94	103	92	95	104	90	97	103	103	84	100	97	97	94	48	48	57
21	HQPM-7 (C)	79	81	83	83	88	83	96	87	88	93	83	82	95	88	77	94	90	88	86	42	48	49
22	APQH 9 (C)	79	80	81	83	85	83	96	87	88	95	82	82	96	88	79	93	93	88	86	42	49	48
23	Vivek QPM 9 (C)	79	82	83	84	89	90	100	91	94	98	92	93	101	97	82	99	97	95	90	46	50	54
	Location Mean	82.9	84.4	86.9	85.2	88.7	90.5	102.4	91.7	92.6	100.1	89.3	93.3	98.2	94.1	82.4	97.7	95.2	93.7	91.0	47.3	50.2	55.6
	CV (%)	1.7	4.9	2.7	3.4	2.7	2.7	2.6	2.8	0.9	3.2	1.2	2.8	4.9	4.4	2.1	1.5	1.7	2.9	2.7	2.6	3.1	3.0
	F (Prob)	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
	CD (5%)	2.3	6.9	1.6	4.8	3.9	4.1	4.3	2.1	1.3	5.3	1.7	4.4	7.8	6.8	2.9	2.5	2.7	1.5	0.8	2.0	2.5	2.7
	CD (1%)	3.1	9.2	2.1	6.4	5.3	5.4	5.8	2.8	1.8	7.1	2.3	5.8	10.5	9.1	3.8	3.3	3.6	1.9	1.1	2.7	3.4	3.6

Table No. : 22 **(Conti...)** **Days to 50% Anthesis**

S. No.	Entry Name				NEPZ							NWPZ					PZ						
		GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE	IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APH 1 (PROA)	52	47	49	53	50	49	50	42	49	49	42	49	56	54	50	50	55	52	49	59	49	46
2	APH 2 (PROA)	50	52	51	54	55	50	52	45	53	52	43	53	56	56	52	51	59	55	51	59	55	48
3	APH3 (PROA)	50	49	51	53	52	51	52	45	52	51	43	55	53	57	52	52	58	55	55	59	56	50
4	APQH 1 (QPM+PROA)	56	49	52	55	52	52	52	44	55	52	47	54	54	57	53	53	59	57	54	60	57	50
5	APQH 8 (QPM+PROA)	53	47	50	51	49	48	47	42	47	47	41	50	54	55	50	51	60	54	56	59	57	50
6	FQH 148	50	47	50	51	47	48	46	43	48	47	41	50	52	55	50	48	54	52	49	59	52	47
7	IIMRQPMH 1705	53	46	51	55	51	50	52	44	50	50	43	48	54	57	51	50	59	53	54	59	56	49
8	IIMRQPMH 1708	57	49	52	57	53	51	53	41	53	51	46	52	58	57	53	52	60	57	55	58	56	51
9	IQPMH-18-2	50	48	51	56	50	49	52	45	51	51	44	55	55	57	53	51	59	57	55	62	57	50
10	IQPMH-18-4	52	47	51	54	51	50	51	45	49	50	44	55	56	57	53	50	59	54	54	62	56	47
11	IQPMH-19-1	51	51	52	56	53	53	53	44	54	52	46	51	57	58	53	51	59	56	57	62	56	50
12	IQPMH-19-2	50	50	50	53	49	48	49	42	48	48	43	51	52	54	50	50	55	54	52	59	54	46
13	QPM MH-51	53	51	52	57	53	52	54	45	53	52	47	54	54	59	54	52	59	56	55	59	57	48
14	VEHQ 16-1	53	50	52	56	52	49	51	43	52	51	45	52	56	57	53	51	58	55	53	56	54	48
15	IQPMH-19-3	52	51	52	57	53	51	52	43	53	51	45	50	57	58	53	51	60	57	54	59	54	49
16	IQPMH-19-4	48	46	49	53	49	49	49	43	51	49	44	48	54	55	50	49	57	52	48	59	53	49
17	PUSA HM8 IMPROVED (C)	51	46	50	55	51	50	52	44	53	51	45	51	56	56	52	51	59	54	55	63	56	49
18	Pratap QPM Hybrid (C)	55	52	53	56	51	51	52	43	52	51	46	54	57	58	54	54	61	57	56	62	57	49
19	HQPM-1 (C)	57	52	54	57	54	52	52	44	53	52	46	55	57	60	55	53	60	56	52	60	57	51
20	HQPM-5 (C)	52	46	50	56	52	51	52	44	50	51	46	54	56	56	53	53	61	55	55	64	57	49
21	HQPM-7 (C)	50	46	47	49	46	45	46	39	47	45	42	52	50	51	49	44	53	48	44	58	47	41
22	APQH 9 (C)	48	46	47	49	43	45	45	40	46	45	41	48	46	52	47	45	53	47	44	59	47	43
23	Vivek QPM 9 (C)	54	46	50	51	49	49	46	43	49	48	42	50	54	54	50	52	60	57	53	63	57	47
	Location Mean	52.0	48.4	50.7	54.0	50.7	49.6	50.4	43.2	50.8	49.8	44.0	51.8	54.6	56.1	51.6	50.6	58.3	54.3	52.6	60.0	54.7	48.1
	CV (%)	5.6	4.0	3.8	2.0	2.5	2.3	3.4	4.2	4.3	3.2	3.1	3.5	3.3	2.6	3.1	1.4	2.4	1.9	3.0	6.0	2.0	3.1
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0
	CD (5%)	4.8	3.2	1.4	1.8	2.1	1.9	2.8	3.0	3.6	1.0	2.2	3.0	2.9	2.4	1.3	1.2	2.3	1.7	2.6	5.9	1.8	2.4
	CD (1%)	6.4	4.3	1.8	2.4	2.8	2.6	3.8	4.0	4.8	1.4	3.0	4.0	3.9	3.3	1.7	1.6	3.1	2.3	3.4	7.9	2.4	3.3

Table No. : 22 (Conti...)		Days to 50% Silking																				
						CWZ						NEPZ							NWPZ			
S. No.	Entry Name	RAHU	VAGA	ZONE	All India	AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE	IARI	KARN	LUDH	PANT
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APH 1 (PROA)	56	49	52	50	49	54	53	55	48	52	54	52	50	52	46	53	51	46	51	58	57
2	APH 2 (PROA)	58	50	54	53	51	52	58	53	53	54	55	57	52	54	49	58	54	45	54	57	59
3	APH3 (PROA)	60	53	55	53	52	53	59	54	51	54	54	54	53	54	49	57	53	46	56	55	59
4	APQH 1 (QPM+PROA)	60	53	56	54	51	54	59	59	52	55	57	54	54	54	49	60	55	49	55	56	60
5	APQH 8 (QPM+PROA)	60	52	56	51	50	52	55	57	49	52	52	51	50	49	43	51	49	45	51	56	58
6	FQH 148	56	46	51	50	50	54	54	54	50	52	52	50	49	48	44	52	49	45	51	53	58
7	IIMRQPMH 1705	59	50	54	52	51	54	57	56	48	53	57	53	52	54	48	54	53	46	49	56	60
8	IIMRQPMH 1708	61	53	56	54	52	54	58	60	52	55	58	55	53	56	47	58	55	50	53	60	60
9	IQPMH-18-2	60	52	56	53	52	54	58	54	50	53	57	53	51	54	49	60	54	47	56	56	60
10	IQPMH-18-4	56	52	54	52	51	53	58	56	49	53	55	53	52	53	47	57	53	47	56	57	59
11	IQPMH-19-1	61	52	56	54	51	54	61	55	53	55	57	55	55	56	49	60	55	49	52	59	61
12	IQPMH-19-2	58	48	53	51	49	53	56	54	52	53	54	51	48	51	45	53	50	46	53	54	56
13	QPM MH-51	61	52	55	54	51	54	61	56	53	55	59	55	54	56	50	58	55	48	54	57	62
14	VEHQ 16-1	59	51	54	53	52	54	58	56	51	54	57	54	51	53	47	57	53	48	53	58	60
15	IQPMH-19-3	59	52	55	53	50	55	59	56	53	55	58	55	53	55	47	59	54	47	51	59	61
16	IQPMH-19-4	56	50	53	51	50	53	56	51	48	52	54	51	49	52	46	55	51	46	50	55	57
17	PUSA HM8 IMPROVED (C)	60	49	55	52	51	53	59	55	48	53	57	53	52	54	47	58	53	48	53	58	59
18	Pratap QPM Hybrid (C)	61	53	57	54	51	53	60	59	53	55	60	53	53	55	48	57	54	49	55	58	61
19	HQPM-1 (C)	61	52	56	54	51	56	60	60	54	56	60	57	54	55	49	59	55	49	56	59	63
20	HQPM-5 (C)	61	52	56	53	51	53	59	56	48	53	58	54	53	55	49	55	54	49	55	58	59
21	HQPM-7 (C)	54	44	48	47	45	51	49	54	47	49	50	49	47	48	42	51	48	45	53	52	54
22	APQH 9 (C)	53	44	48	47	46	52	48	51	47	49	50	49	47	46	43	50	48	44	50	47	54
23	Vivek QPM 9 (C)	60	53	56	52	49	53	56	58	48	53	52	51	50	48	46	54	50	44	51	56	57
	Location Mean	58.7	50.6	54.2	51.9	50.3	53.4	57.1	55.6	50.3	53.3	55.5	53.0	51.3	52.6	46.9	56.0	52.5	46.8	53.0	56.3	58.9
	CV (%)	1.7	2.6	3.1	3.3	2.4	2.1	2.8	5.0	3.7	3.4	2.1	3.0	3.3	3.4	2.7	3.4	3.0	3.4	3.2	3.2	2.6
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	1.6	2.2	0.9	0.6	2.0	1.9	2.6	4.6	3.1	1.3	1.9	2.6	2.8	3.0	2.1	3.2	1.1	2.6	2.8	3.0	2.5
	CD (1%)	2.2	2.9	1.2	0.7	2.6	2.5	3.5	6.1	4.1	1.7	2.5	3.5	3.8	4.0	2.8	4.2	1.4	3.5	3.7	4.0	3.3

Table No. : 22			(Conti...)											Plant Height (cm)										
			PZ											CWZ						NEPZ				
S. No.	Entry Name	ZONE Mean	COIM Mean	DHAR Mean	HYDE Mean	KARI Mean	KOLH Mean	MAND Mean	PEDD Mean	RAHU Mean	VAGA Mean	ZONE Mean	All India Mean	AMBI Mean	BANS Mean	CHIN Mean	GODH Mean	UDAI Mean	ZONE Mean	BHU Mean	BAHA Mean	BHUB Mean	DHOL Mean	RANC Mean
1	APH 1 (PROA)	53	53	57	54	52	56	51	48	58	54	54	52	196	155	149	178	130	162	175	208	159	177	181
2	APH 2 (PROA)	54	55	61	57	53	57	56	50	60	54	56	55	223	167	153	167	168	175	164	205	170	178	180
3	APH3 (PROA)	54	55	60	57	57	57	57	52	61	55	57	55	250	172	182	170	187	192	183	212	198	194	205
4	APQH 1 (QPM+PROA)	55	56	60	58	56	58	58	52	62	56	57	56	213	187	169	177	167	182	170	197	160	183	175
5	APQH 8 (QPM+PROA)	52	55	63	56	58	57	58	51	61	56	57	53	194	167	136	188	140	165	131	164	158	151	160
6	FQH 148	52	51	56	54	51	57	53	48	58	50	53	52	235	167	173	185	167	185	178	209	177	186	179
7	IIMRQPMH 1705	53	54	60	55	56	57	57	50	60	54	56	54	255	172	178	167	187	192	187	204	167	180	194
8	IIMRQPMH 1708	56	55	62	59	57	56	58	53	62	57	58	56	234	180	186	172	187	192	183	203	170	181	197
9	IQPMH-18-2	55	53	60	59	57	60	58	52	61	56	57	55	259	180	188	178	192	199	201	210	189	197	209
10	IQPMH-18-4	55	54	61	56	56	59	58	49	58	55	56	55	247	190	173	183	197	198	190	207	194	177	201
11	IQPMH-19-1	55	54	60	58	59	60	60	52	63	56	58	56	244	170	184	160	168	185	179	201	183	196	206
12	IQPMH-19-2	52	54	58	56	55	57	57	48	60	51	55	53	226	173	171	182	158	182	173	190	165	192	195
13	QPM MH-51	55	54	63	58	57	56	59	49	62	57	57	56	247	182	176	175	180	192	189	203	180	194	208
14	VEHQ 16-1	55	54	60	57	55	53	56	50	61	56	56	55	247	193	168	177	188	195	201	196	187	186	201
15	IQPMH-19-3	55	54	61	59	56	57	56	51	61	56	57	55	202	168	159	177	168	175	162	182	165	186	191
16	IQPMH-19-4	52	52	63	54	50	56	55	51	58	55	55	53	216	172	157	167	160	174	172	185	162	170	186
17	PUSA HM8 IMPROVED (C)	55	54	61	56	57	61	57	51	60	52	56	55	214	178	140	177	178	177	170	196	184	199	180
18	Pratap QPM Hybrid (C)	56	57	63	59	58	59	60	51	62	57	58	56	213	168	143	180	167	174	175	189	167	179	182
19	HQPM-1 (C)	57	56	61	59	54	58	59	52	62	57	58	57	233	187	169	180	177	189	184	191	173	189	194
20	HQPM-5 (C)	55	56	63	58	57	61	59	51	62	57	58	56	233	190	174	177	172	189	175	207	176	175	192
21	HQPM-7 (C)	51	47	54	49	47	56	49	43	56	47	50	49	222	180	160	177	167	181	166	190	161	184	180
22	APQH 9 (C)	49	48	56	49	47	57	49	45	55	47	50	49	210	172	162	182	157	176	160	197	167	181	187
23	Vivek QPM 9 (C)	52	55	61	59	55	61	59	49	62	57	58	54	186	163	136	177	143	161	136	158	151	185	165
	Location Mean	53.7	53.7	60.2	56.3	54.7	57.7	56.4	50.0	60.3	54.3	56.0	54.2	226.0	175.3	164.6	176.1	169.7	182.3	174.1	195.9	172.3	183.5	189.0
	CV (%)	3.1	1.3	3.1	1.8	2.8	6.1	1.6	3.1	1.9	2.8	3.1	3.1	4.9	6.7	9.2	6.0	10.3	7.4	5.4	4.5	5.9	9.8	5.1
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.5	0.0
	CD (5%)	1.3	1.1	3.0	1.7	2.5	5.8	1.5	2.5	1.9	2.5	0.9	0.6	18.3	19.2	24.8	17.3	28.8	9.7	15.6	14.4	16.6	29.5	16.0
	CD (1%)	1.8	1.5	4.1	2.2	3.4	7.7	2.0	3.4	2.5	3.4	1.2	0.7	24.5	25.7	33.1	23.0	38.5	12.8	20.8	19.2	22.2	39.3	21.4

Table No. : 22	(Conti...)	Plant Height (cm)																	
S. No.	Entry Name			NWPZ					PZ										All India
		SABO	ZONE	IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APH 1 (PROA)	146	174	168	165	173	237	186	195	173	168	149	108	181	142	219	129	163	169
2	APH 2 (PROA)	138	173	195	177	202	282	214	204	174	197	155	117	222	197	229	130	180	183
3	APH3 (PROA)	155	191	254	180	185	307	231	223	194	218	171	118	236	218	260	139	198	200
4	APQH 1 (QPM+PROA)	149	172	202	177	190	277	211	204	174	196	151	128	223	188	251	127	183	185
5	APQH 8 (QPM+PROA)	125	148	171	152	172	229	181	209	177	207	156	118	217	198	240	125	183	170
6	FQH 148	150	180	213	183	205	293	224	197	180	192	153	122	214	188	246	132	180	189
7	IIMRQPMH 1705	179	185	225	203	227	287	236	199	190	211	158	133	220	197	258	128	188	196
8	IIMRQPMH 1708	145	180	207	180	212	274	218	201	194	214	168	133	224	197	252	134	191	193
9	IQPMH-18-2	164	195	250	220	208	300	245	240	209	215	177	140	247	222	280	139	208	209
10	IQPMH-18-4	168	189	226	200	203	283	228	221	187	206	175	133	244	222	272	144	200	202
11	IQPMH-19-1	157	187	215	195	212	303	231	213	201	212	175	125	232	215	262	135	197	198
12	IQPMH-19-2	163	180	209	193	173	274	212	190	179	197	159	133	217	182	249	120	181	186
13	QPM MH-51	180	192	230	212	208	285	234	216	194	215	175	145	233	217	267	129	199	202
14	VEHQ 16-1	159	188	236	175	175	283	217	219	183	219	169	138	219	207	257	140	195	197
15	IQPMH-19-3	139	171	211	190	185	259	211	191	166	189	146	127	212	168	237	125	173	179
16	IQPMH-19-4	148	170	203	187	217	293	225	192	176	200	141	117	205	183	240	115	174	182
17	PUSA HM8 IMPROVED (C)	150	180	218	193	197	279	222	201	179	206	164	137	225	185	246	123	185	188
18	Pratap QPM Hybrid (C)	169	177	215	198	188	286	222	191	161	212	158	130	234	200	257	138	187	188
19	HQPM-1 (C)	148	180	219	182	188	305	224	212	179	204	164	138	239	198	247	127	190	193
20	HQPM-5 (C)	166	182	227	192	202	291	228	209	188	217	174	132	242	198	256	143	195	196
21	HQPM-7 (C)	153	172	191	182	172	263	202	171	169	196	149	108	188	177	243	129	170	178
22	APQH 9 (C)	142	172	205	178	183	264	208	187	166	191	144	120	194	178	246	129	173	179
23	Vivek QPM 9 (C)	117	152	165	162	197	233	189	211	176	180	159	115	213	188	247	113	178	170
	Location Mean	152.5	177.9	211.2	185.9	194.5	277.8	217.3	204.2	181.4	202.7	160.4	126.8	221.0	194.1	250.3	130.1	185.7	188.3
	CV (%)	8.3	6.7	4.7	7.5	9.7	5.2	6.7	4.0	8.3	6.1	6.6	11.4	4.3	6.0	4.7	8.2	6.3	6.7
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0
	CD (5%)	20.8	7.8	16.4	23.0	31.1	23.6	11.8	13.5	24.9	20.5	17.3	23.8	15.6	19.1	19.3	17.5	6.3	4.1
	CD (1%)	27.7	10.3	21.9	30.7	41.5	31.6	15.6	18.0	33.2	27.3	23.1	31.8	20.9	25.5	25.8	23.4	8.3	5.5

Table No. : 22 **(Conti...)** **Shelling %**

S. No.	Entry Name	CWZ						NEPZ						
		AMBI	BANS	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APH 1 (PROA)	79	79	87	86	73	81	78	77	82	83	83	81	81
2	APH 2 (PROA)	77	79	80	80	75	78	75	76	80	85	79	73	78
3	APH3 (PROA)	77	81	85	80	77	80	73	74	80	79	82	75	77
4	APQH 1 (QPM+PROA)	78	80	84	88	80	82	75	75	82	80	86	83	80
5	APQH 8 (QPM+PROA)	77	80	84	81	74	79	83	75	82	82	85	83	81
6	FQH 148	78	82	90	76	74	80	82	76	83	83	87	84	82
7	IIMRQPMH 1705	79	81	87	77	78	80	80	74	81	84	85	84	81
8	IIMRQPMH 1708	76	81	85	77	79	80	76	79	84	80	84	83	81
9	IQPMH-18-2	78	80	86	78	76	79	75	75	82	81	85	78	79
10	IQPMH-18-4	79	74	86	80	77	79	81	76	81	84	85	79	81
11	IQPMH-19-1	77	78	85	75	80	79	75	77	84	79	84	85	81
12	IQPMH-19-2	78	79	83	80	78	80	75	74	83	84	85	86	81
13	IQPMH-19-3	76	79	81	82	74	79	75	78	83	75	82	75	78
14	IQPMH-19-4	78	75	85	79	76	79	77	76	82	85	83	78	80
15	QPM MH-51	79	82	83	83	74	80	77	75	82	84	86	86	82
16	VEHQ 16-1	78	81	86	81	76	80	81	78	82	90	87	83	84
17	PUSA HM8 IMPROVED (C)	76	81	85	79	80	80	79	73	81	83	80	79	79
18	Pratap QPM Hybrid (C)	79	82	84	71	79	79	77	75	81	83	85	76	79
19	HQPM-1 (C)	76	80	79	77	77	78	74	76	82	77	82	78	78
20	HQPM-5 (C)	76	79	78	84	77	79	76	75	81	81	84	86	80
21	HQPM-7 (C)	77	81	90	86	74	82	79	75	82	87	85	77	81
22	APQH 9 (C)	77	81	85	84	75	80	81	74	82	84	84	85	82
23	Vivek QPM 9 (C)	78	81	87	75	78	80	83	75	83	85	85	82	82
	Location Mean	77.5	79.8	84.5	79.9	76.6	79.7	77.7	75.5	82.1	82.3	84.0	80.8	80.2
	CV (%)	1.3	1.6	4.2	3.3	0.0	2.6	1.1	1.3	1.3	2.7	1.7	0.0	1.6
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	1.7	2.0	5.8	4.4	0.0	1.5	1.4	1.6	1.8	3.6	2.4	0.0	0.9
	CD (1%)	2.2	2.7	7.7	5.9	0.0	2.0	1.9	2.1	2.4	4.9	3.3	0.0	1.1

Table No. : 22 **(Conti...)** **Shelling %**

S. No.	Entry Name	NWPZ					PZ										All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APH 1 (PROA)	81	79	85	83	82	81	82	82	80	80	82	74	80	81	80	81
2	APH 2 (PROA)	81	82	81	82	82	79	80	75	78	64	81	73	75	80	76	78
3	APH3 (PROA)	81	80	79	80	80	79	79	76	77	72	82	77	74	81	77	78
4	APQH 1 (QPM+PROA)	81	81	80	84	82	80	84	79	80	75	82	80	80	79	80	81
5	APQH 8 (QPM+PROA)	81	80	86	84	83	80	82	79	76	72	81	71	76	78	77	80
6	FQH 148	79	81	85	85	82	81	82	81	81	79	83	75	82	81	81	81
7	IIMRQPMH 1705	78	81	86	83	82	81	84	80	80	78	82	82	75	81	80	81
8	IIMRQPMH 1708	81	81	84	82	82	80	83	78	79	81	82	80	76	78	80	80
9	IQPMH-18-2	77	81	83	85	82	80	85	79	79	69	83	73	78	79	78	79
10	IQPMH-18-4	81	82	85	86	84	79	86	78	81	73	82	81	81	81	80	81
11	IQPMH-19-1	80	82	84	77	81	80	82	79	77	73	81	80	76	81	79	80
12	IQPMH-19-2	72	83	83	79	79	79	83	78	79	77	83	72	77	75	78	79
13	IQPMH-19-3	81	81	78	75	79	80	82	79	77	76	82	77	75	78	78	78
14	IQPMH-19-4	80	81	85	79	81	79	81	79	80	77	82	77	77	80	79	80
15	QPM MH-51	81	81	84	82	82	81	85	80	81	73	81	76	77	81	79	81
16	VEHQ 16-1	84	79	85	83	83	81	82	79	80	79	80	79	82	81	80	82
17	PUSA HM8 IMPROVED (C)	82	82	83	81	82	79	83	76	78	73	83	76	78	82	79	80
18	Pratap QPM Hybrid (C)	81	81	85	81	82	81	84	79	79	77	83	82	79	78	80	80
19	HQPM-1 (C)	81	83	82	82	82	80	82	80	78	70	83	79	75	81	79	79
20	HQPM-5 (C)	78	81	81	81	80	79	76	78	77	71	81	81	78	80	78	79
21	HQPM-7 (C)	80	80	84	83	82	81	82	81	80	77	81	77	80	81	80	81
22	APQH 9 (C)	80	82	83	79	81	79	84	81	80	73	83	76	81	81	80	80
23	Vivek QPM 9 (C)	81	79	85	82	82	80	82	78	78	75	83	81	77	81	79	81
	Location Mean	80.1	81.0	83.2	81.7	81.5	80.0	82.4	78.9	78.8	74.5	81.9	77.3	77.9	80.0	79.1	79.9
	CV (%)	1.7	1.5	1.4	2.8	1.9	1.1	1.4	2.5	1.3	3.0	1.1	3.3	2.6	1.7	2.1	2.1
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	2.3	2.1	1.9	3.7	1.2	1.4	1.8	3.3	1.7	3.7	1.5	4.2	3.4	2.3	0.9	0.6
	CD (1%)	3.0	2.8	2.5	5.0	1.6	1.9	2.5	4.4	2.3	4.9	2.0	5.6	4.5	3.1	1.2	0.7

Table No. : 23 **Trial No. 586 (QPM I-II-III) NHZ**

Yield Kg/ha

S. No.	Entry Name	NHZ														All India	
		BAJU		BARA		GOSS		IMPH		SRIN		VPKA		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	APH1 (Pro vit A)	8247	10	6075	1	4189	6	7885	8	7639	7	7095	12	7388	6	7388	6
2	FQH140	9112	6	3569	11	3126	10	9133	5	7111	14	9328	2	7651	4	7651	4
3	FQH160	10478	2	5745	3	4479	3	9495	1	7472	9	8967	3	8432	1	8432	1
4	FQH165	8326	9	5617	5	4265	4	5921	12	7453	10	8055	5	7074	10	7074	10
5	LQPMH 119	7894	12	3816	10	3696	7	7132	10	7366	12	7439	10	6730	13	6730	13
6	LQPMH 219	10776	1	5318	6	2859	12	9310	3	6716	15	9599	1	8344	2	8344	2
7	LQPMH 319	9922	4	5972	2	4233	5	4720	15	7585	8	7514	9	7143	9	7143	9
8	LQPMH118	9571	5	3828	9	3528	8	6625	11	9091	1	7127	11	7248	8	7248	8
9	SQPMH2	7690	13	2940	14	2629	14	5495	14	7368	11	6024	15	5904	15	5904	15
10	APQH1 (QPM+Pro A)	10226	3	5706	4	5132	1	8994	6	7660	6	7942	6	8106	3	8106	3
11	HQPM1 (C)	8933	7	3462	12	3006	11	7207	9	7832	5	7860	7	7059	11	7059	11
12	HQPM5 (C)	8216	11	4752	8	5037	2	9227	4	8176	4	6430	14	7360	7	7360	7
13	HQPM 7 (C)	8503	8	4790	7	3276	9	8049	7	7165	13	6708	13	7043	12	7043	12
14	Vivek QPM 9 (C)	7416	14	3246	13	2701	13	9312	2	8899	2	8889	4	7552	5	7552	5
15	APQH9 (C Pro Vit A)	6703	15	2909	15	1701	15	5527	13	8851	3	7697	8	6337	14	6337	14
	Location Mean	8801.0	.	4516.4	.	3590.6	.	7602.1	.	7759.0	.	7778.3	.	7291.4	.	7291.4	.
	CV (%)	5.1	.	15.9	.	33.0	.	19.2	.	15.2	.	15.3	.	14.6	.	14.6	.
	F (Prob)	0.0	.	0.0	.	0.1	.	0.0	.	0.4	.	0.0	.	0.0	.	0.0	.
	CD (5%)	750.2	.	1198.6	.	1984.0	.	2445.0	.	1969.8	.	1985.6	.	767.3	.	767.3	.
	CD (1%)	1012.1	.	1616.8	.	2676.4	.	3298.3	.	2657.2	.	2678.5	.	1013.5	.	1013.5	.

Table No. : 23 (Conti...) Gain in Yield (%) over HQPM 7

S. No.	Entry Name	NHZ														All India	
		BAJU		BARA		GOSS		IMPH		SRIN		VPKA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH1 (Pro vit A)	-3.01	10	26.83	1	27.86	6	-2.04	8	6.61	7	5.77	12	4.9	6	4.9	6
2	FQH140	7.16	6	-25.5	11	-4.59	10	13.47	5	-0.76	14	39.06	2	8.62	4	8.62	4
3	FQH160	23.23	2	19.94	3	36.72	3	17.96	1	4.28	9	33.68	3	19.71	1	19.71	1
4	FQH165	-2.09	9	17.25	5	30.16	4	-26.44	12	4.01	10	20.07	5	0.44	10	0.44	10
5	LQPMH 119	-7.16	12	-20.33	10	12.81	7	-11.39	10	2.8	12	10.89	10	-4.45	13	-4.45	13
6	LQPMH 219	26.73	1	11.01	6	-12.74	12	15.66	3	-6.27	15	43.1	1	18.47	2	18.47	2
7	LQPMH 319	16.69	4	24.68	2	29.19	5	-41.36	15	5.86	8	12.02	9	1.41	9	1.41	9
8	LQPMH118	12.56	5	-20.09	9	7.68	8	-17.7	11	26.87	1	6.25	11	2.91	8	2.91	8
9	SQPMH2	-9.56	13	-38.63	14	-19.77	14	-31.73	14	2.84	11	-10.19	15	-16.18	15	-16.18	15
10	APQH1 (QPM+Pro A)	20.27	3	19.13	4	56.64	1	11.74	6	6.91	6	18.39	6	15.09	3	15.09	3
11	HQPM 7 (C)	0	8	0	7	0	9	0	7	0	13	0	13	0	12	0	12
12	HQPM1 (C)	5.06	7	-27.72	12	-8.25	11	-10.46	9	9.31	5	17.17	7	0.22	11	0.22	11
13	HQPM5 (C)	-3.37	11	-0.79	8	53.72	2	14.62	4	14.1	4	-4.14	14	4.5	7	4.5	7
14	Vivek QPM 9 (C)	-12.78	14	-32.23	13	-17.55	13	15.68	2	24.19	2	32.51	4	7.23	5	7.23	5
15	APQH9 (C for Pro Vit A)	-21.17	15	-39.26	15	-48.08	15	-31.34	13	23.52	3	14.74	8	-10.02	14	-10.02	14

Gain in Yield (%) over HQPM 1

S. No.	Entry Name	NHZ														All India	
		BAJU		BARA		GOSS		IMPH		SRIN		VPKA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH1 (Pro vit A)	-7.68	10	75.48	1	39.36	6	9.4	8	-2.47	7	-9.73	12	4.67	6	4.67	6
2	FQH140	2	6	3.08	11	3.98	10	26.72	5	-9.21	14	18.68	2	8.38	4	8.38	4
3	FQH160	17.3	2	65.94	3	49.01	3	31.74	1	-4.6	9	14.08	3	19.44	1	19.44	1
4	FQH165	-6.8	9	62.22	5	41.86	4	-17.85	12	-4.85	10	2.48	5	0.21	10	0.21	10
5	LQPMH 119	-11.63	12	10.23	10	22.95	7	-1.04	10	-5.95	12	-5.36	10	-4.67	13	-4.67	13
6	LQPMH 219	20.64	1	53.59	6	-4.89	12	29.17	3	-14.25	15	22.12	1	18.2	2	18.2	2
7	LQPMH 319	11.08	4	72.5	2	40.81	5	-34.51	15	-3.15	8	-4.4	9	1.19	9	1.19	9
8	LQPMH118	7.14	5	10.55	9	17.36	8	-8.09	11	16.07	1	-9.32	11	2.68	8	2.68	8
9	SQPMH2	-13.91	13	-15.09	14	-12.56	14	-23.76	14	-5.92	11	-23.36	15	-16.37	15	-16.37	15
10	APQH1 (QPM+Pro A)	14.48	3	64.82	4	70.73	1	24.79	6	-2.2	6	1.04	6	14.83	3	14.83	3
11	HQPM 7 (C)	-4.81	8	38.36	7	8.99	9	11.68	7	-8.52	13	-14.66	13	-0.22	12	-0.22	12
12	HQPM1 (C)	0	7	0	12	0	11	0	9	0	5	0	7	0	11	0	11
13	HQPM5 (C)	-8.02	11	37.26	8	67.54	2	28.02	4	4.38	4	-18.19	14	4.27	7	4.27	7
14	Vivek QPM 9 (C)	-16.98	14	-6.24	13	-10.14	13	29.2	2	13.61	2	13.09	4	6.99	5	6.99	5
15	APQH9 (C for Pro Vit A)	-24.96	15	-15.97	15	-43.42	15	-23.32	13	13	3	-2.08	8	-10.22	14	-10.22	14

Table No. : 23 (Conti...) Gain in Yield (%) over HQPM 5

S. No.	Entry Name	NHZ														All India	
		BAJU		BARA		GOSS		IMPH		SRIN		VPKA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH1 (Pro vit A)	0.38	10	27.84	1	-16.8	6	-14.5	8	-6.56	7	10.4	12	0.38	6	0.38	6
2	FQH140	10.9	6	-24.9	11	-37.9	10	-1.01	5	-13	14	45.1	2	3.95	4	3.95	4
3	FQH160	27.53	2	20.89	3	-11.1	3	2.91	1	-8.61	9	39.5	3	14.56	1	14.56	1
4	FQH165	1.33	9	18.18	5	-15.3	4	-35.8	12	-8.84	10	25.3	5	-3.89	10	-3.89	10
5	LQPMH 119	-3.92	12	-19.7	10	-26.6	7	-22.7	10	-9.9	12	15.7	10	-8.57	13	-8.57	13
6	LQPMH 219	31.16	1	11.89	6	-43.2	12	0.9	3	-17.9	15	49.3	1	13.36	2	13.36	2
7	LQPMH 319	20.76	4	25.67	2	-16	5	-48.9	15	-7.22	8	16.9	9	-2.95	9	-2.95	9
8	LQPMH118	16.49	5	-19.5	9	-30	8	-28.2	11	11.2	1	10.8	11	-1.52	8	-1.52	8
9	SQPMH2	-6.4	13	-38.1	14	-47.8	14	-40.4	14	-9.87	11	-6.31	15	-19.8	15	-19.8	15
10	APQH1 (QPM+Pro A)	24.47	3	20.07	4	1.9	1	-2.52	6	-6.3	6	23.5	6	10.13	3	10.13	3
11	HQPM 7 (C)	3.49	8	0.8	7	-35	9	-12.8	7	-12.4	13	4.32	13	-4.31	12	-4.31	12
12	HQPM1 (C)	8.72	7	-27.2	12	-40.3	11	-21.9	9	-4.2	5	22.2	7	-4.09	11	-4.09	11
13	HQPM5 (C)	0	11	0	8	0	2	0	4	0	4	0	14	0	7	0	7
14	Vivek QPM 9 (C)	-9.74	14	-31.7	13	-46.4	13	0.92	2	8.84	2	38.2	4	2.61	5	2.61	5
15	APQH9 (C for Pro Vit A)	-18.4	15	-38.8	15	-66.2	15	-40.1	13	8.26	3	19.7	8	-13.9	14	-13.9	14

Gain in Yield (%) over Vivek QPM 9

S. No.	Entry Name	NHZ														All India	
		BAJU		BARA		GOSS		IMPH		SRIN		VPKA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH1 (Pro vit A)	11.21	10	87.16	1	55.08	6	-15.3	8	-14.2	7	-20.2	12	-2.17	6	-2.17	6
2	FQH140	22.87	6	9.94	11	15.71	10	-1.92	5	-20.1	14	4.95	2	1.3	4	1.3	4
3	FQH160	41.29	2	76.99	3	65.82	3	1.97	1	-16	9	0.88	3	11.64	1	11.64	1
4	FQH165	12.27	9	73.02	5	57.87	4	-36.4	12	-16.3	10	-9.38	5	-6.33	10	-6.33	10
5	LQPMH 119	6.45	12	17.56	10	36.82	7	-23.4	10	-17.2	12	-16.3	10	-10.9	13	-10.9	13
6	LQPMH 219	45.31	1	63.81	6	5.84	12	-0.02	3	-24.5	15	7.99	1	10.48	2	10.48	2
7	LQPMH 319	33.8	4	83.98	2	56.69	5	-49.3	15	-14.8	8	-15.5	9	-5.42	9	-5.42	9
8	LQPMH118	29.06	5	17.91	9	30.6	8	-28.9	11	2.16	1	-19.8	11	-4.02	8	-4.02	8
9	SQPMH2	3.7	13	-9.44	14	-2.69	14	-41	14	-17.2	11	-32.2	15	-21.8	15	-21.8	15
10	APQH1 (QPM+Pro A)	37.9	3	75.79	4	89.98	1	-3.41	6	-13.9	6	-10.7	6	7.33	3	7.33	3
11	HQPM 7 (C)	14.66	8	47.56	7	21.29	9	-13.6	7	-19.5	13	-24.5	13	-6.74	12	-6.74	12
12	HQPM1 (C)	20.46	7	6.65	12	11.28	11	-22.6	9	-12	5	-11.6	7	-6.53	11	-6.53	11
13	HQPM5 (C)	10.79	11	46.4	8	86.44	2	-0.91	4	-8.13	4	-27.7	14	-2.54	7	-2.54	7
14	Vivek QPM 9 (C)	0	14	0	13	0	13	0	2	0	2	0	4	0	5	0	5
15	APQH9 (C for Pro Vit A)	-9.61	15	-10.4	15	-37	15	-40.7	13	-0.54	3	-13.4	8	-16.1	14	-16.1	14

Table No. : 23 **(Conti...)**

Shelling %

S. No.	Entry Name	NHZ							All India
		BAJU	BARA	GOSS	IMPH	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APH1 (Pro vit A)	85	75	78	76	82	81	79	79
2	FQH140	86	78	78	73	81	85	80	80
3	FQH160	86	77	79	80	83	83	81	81
4	FQH165	86	79	78	73	82	83	80	80
5	LQPMH 119	85	76	77	77	83	83	80	80
6	LQPMH 219	90	79	79	77	81	85	82	82
7	LQPMH 319	87	84	76	77	84	86	82	82
8	LQPMH118	88	76	76	75	83	85	81	81
9	SQPMH2	87	80	78	79	82	84	81	81
10	APQH1 (QPM+Pro A)	84	74	79	79	83	83	80	80
11	HQPM1 (C)	85	75	78	78	81	84	80	80
12	HQPM5 (C)	84	69	80	77	83	80	79	79
13	HQPM 7 (C)	83	76	77	76	83	81	79	79
14	Vivek QPM 9 (C)	90	75	79	83	83	88	83	83
15	APQH9 (C for Pro Vit A)	88	76	75	82	83	86	82	82
	Location Mean	86.3	76.6	77.9	77.5	82.4	83.8	80.7	80.7
	CV (%)	0.0	5.2	3.8	5.3	1.5	1.6	3.4	3.4
	F (Prob)	0.0	0.1	0.9	0.2	0.1	0.0	0.0	0.0
	CD (5%)	0.0	6.7	4.9	6.9	2.0	2.3	1.8	1.8
	CD (1%)	0.0	9.1	6.6	9.2	2.7	3.0	2.4	2.4

(Conti...) **Gain in Yield (%) over APQH9 for Pro Vit A**

S. No.	Entry Name	NHZ														All India	
		BAJU		BARA		GOSS		IMPH		SRIN		VPKA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APH1 (Pro vit A)	23.03	10	108.8	1	146.3	6	42.67	8	-13.69	7	-7.81	12	16.59	6	16.59	6
2	FQH140	35.93	6	22.67	11	83.77	10	65.26	5	-19.65	14	21.2	2	20.72	4	20.72	4
3	FQH160	56.32	2	97.48	3	163.3	3	71.8	1	-15.58	9	16.51	3	33.05	1	33.05	1
4	FQH165	24.2	9	93.05	5	150.7	4	7.13	12	-15.79	10	4.65	5	11.63	10	11.63	10
5	LQPMH 119	17.77	12	31.17	10	117.3	7	29.05	10	-16.77	12	-3.35	10	6.19	13	6.19	13
6	LQPMH 219	60.76	1	82.77	6	68.09	12	68.46	3	-24.12	15	24.72	1	31.66	2	31.66	2
7	LQPMH 319	48.02	4	105.3	2	148.9	5	-14.6	15	-14.3	8	-2.37	9	12.71	9	12.71	9
8	LQPMH118	42.78	5	31.56	9	107.4	8	19.87	11	2.71	1	-7.4	11	14.37	8	14.37	8
9	SQPMH2	14.72	13	1.04	14	54.54	14	-0.57	14	-16.75	11	-21.73	15	-6.84	15	-6.84	15
10	APQH1 (QPM+Pro A)	52.56	3	96.14	4	201.7	1	62.75	6	-13.45	6	3.19	6	27.91	3	27.91	3
11	HQPM 7 (C)	26.85	8	64.65	7	92.62	9	45.65	7	-19.04	13	-12.84	13	11.14	12	11.14	12
12	HQPM1 (C)	33.26	7	19	12	76.73	11	30.41	9	-11.51	5	2.12	7	11.39	11	11.39	11
13	HQPM5 (C)	22.57	11	63.35	8	196.1	2	66.95	4	-7.63	4	-16.45	14	16.14	7	16.14	7
14	Vivek QPM 9 (C)	10.63	14	11.58	13	58.82	13	68.49	2	0.54	2	15.49	4	19.17	5	19.17	5
15	APQH9 (C for Pro Vit A)	0	15	0	15	0	15	0	13	0	3	0	8	0	14	0	14

Table No. : 23 (Conti...)		Number of cobs								Ear Height (cm)							
S. No.	Entry Name	NHZ							All India	NHZ							All India
		BAJU	BARA	GOSS	IMPH	SRIN	VPKA	ZONE		BAJU	BARA	GOSS	IMPH	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APH1 (Pro vit A)	46	41	48	35	73	42	48	48	105	87	51	117	109	132	100	100
2	FQH140	45	40	55	46	71	44	50	50	87	69	46	98	106	105	85	85
3	FQH160	46	47	65	44	73	47	54	54	93	69	45	101	117	125	92	92
4	FQH165	46	41	39	34	73	47	47	47	105	81	56	130	116	130	103	103
5	LQPMH 119	47	43	56	39	73	45	51	51	73	64	42	102	113	122	86	86
6	LQPMH 219	53	50	52	45	73	53	54	54	105	79	54	109	125	133	101	101
7	LQPMH 319	47	48	67	34	72	45	52	52	102	82	46	119	109	130	98	98
8	LQPMH118	48	52	58	39	77	46	53	53	90	85	45	105	119	120	94	94
9	SQPMH2	46	40	49	32	74	45	48	48	93	78	52	108	100	123	93	93
10	APQH1 (QPM+Pro A)	40	50	62	37	72	46	51	51	92	83	50	109	116	118	95	95
11	HQPM1 (C)	46	41	54	32	73	46	48	48	103	82	55	102	113	112	95	95
12	HQPM5 (C)	48	37	37	38	73	41	46	46	88	76	45	110	108	122	92	92
13	HQPM 7 (C)	49	49	19	32	70	41	43	43	105	100	63	140	109	148	111	111
14	Vivek QPM 9 (C)	43	41	42	32	76	46	47	47	105	84	53	134	105	130	102	102
15	APQH9 (C for Pro Vit A)	42	25	27	22	77	42	39	39	107	81	50	116	110	132	99	99
	Location Mean	46.1	43.0	48.7	35.9	73.3	45.1	48.7	48.7	96.9	79.9	50.4	113.4	111.7	125.4	96.3	96.3
	CV (%)	9.7	19.0	20.3	16.6	5.1	5.9	13.0	13.0	11.8	6.2	12.5	7.7	8.0	8.8	9.2	9.2
	F (Prob)	0.2	0.1	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
	CD (5%)	7.5	13.7	16.5	10.0	6.3	4.4	4.2	4.2	19.2	8.3	10.6	14.7	15.0	18.4	5.9	5.9
	CD (1%)	10.1	18.5	22.3	13.5	8.4	6.0	5.5	5.5	25.9	11.3	14.3	19.8	20.3	24.9	7.7	7.7

Table No. : 23		(Conti...)			Final Plant Stand (000/ha)					Moisture %							
S. No.	Entry Name	NHZ							All India	NHZ							All India
		BAJU	BARA	GOSS	IMPH	SRIN	VPKA	ZONE		BAJU	BARA	GOSS	IMPH	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APH1 (Pro vit A)	63	57	76	72	62	60	65	65	22	33	18	16	18	22	23	23
2	FQH140	60	57	93	92	60	61	70	70	23	31	18	15	19	20	22	22
3	FQH160	63	72	104	83	60	64	74	74	23	31	18	12	19	22	23	23
4	FQH165	63	60	64	80	60	65	65	65	22	30	18	15	19	21	22	22
5	LQPMH 119	65	62	89	76	59	63	69	69	21	30	18	16	18	20	21	21
6	LQPMH 219	66	76	89	81	59	63	72	72	23	30	18	12	18	20	22	22
7	LQPMH 319	61	70	101	82	59	63	73	73	22	30	18	14	19	19	22	22
8	LQPMH118	66	74	99	79	61	65	74	74	21	33	19	20	18	22	23	23
9	SQPMH2	60	63	91	67	60	64	67	67	21	29	18	13	19	19	21	21
10	APQH1 (QPM+Pro A)	65	74	94	76	59	65	72	72	22	32	19	18	18	26	23	23
11	HQPM1 (C)	61	72	97	75	58	62	71	71	22	32	18	17	18	23	23	23
12	HQPM5 (C)	63	54	53	81	59	57	61	61	22	32	18	15	19	23	23	23
13	HQPM 7 (C)	65	75	37	62	59	58	59	59	22	34	19	15	18	23	23	23
14	Vivek QPM 9 (C)	58	62	85	72	64	60	67	67	22	29	18	11	19	20	22	22
15	APQH9 (C for Pro Vit A)	57	37	50	44	61	58	51	51	21	29	18	13	18	22	22	22
	Location Mean	62.4	64.3	81.4	74.7	59.9	61.7	67.4	67.4	21.9	31.0	18.1	14.8	18.6	21.7	22.2	22.2
	CV (%)	4.6	18.6	20.1	15.0	3.8	6.3	14.4	14.4	2.0	5.1	3.5	31.3	5.1	9.3	5.7	5.7
	F (Prob)	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.0	0.0	0.0
	CD (5%)	4.8	20.0	27.4	18.7	3.8	6.5	6.4	6.4	0.7	2.6	1.1	7.8	1.6	3.4	0.9	0.9
	CD (1%)	6.5	26.9	37.0	25.2	5.2	8.8	8.4	8.4	1.0	3.6	1.4	10.5	2.2	4.6	1.2	1.2

Table No. : 23 (Conti...)		Days to 75% Dry husk								Days to 50% Anthesis							
S. No.	Entry Name	NHZ							All India	NHZ							All India
		BAJU	BARA	GOSS	IMPH	SRIN	VPKA	ZONE		BAJU	BARA	GOSS	IMPH	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APH1 (Pro vit A)	88	92	106	94	134	102	103	103	58	56	49	56	86	56	60	60
2	FQH140	85	86	99	87	139	96	99	99	53	50	44	50	88	54	56	56
3	FQH160	88	88	99	92	134	100	100	100	54	52	45	54	88	58	59	59
4	FQH165	87	90	98	91	133	99	100	100	57	53	45	54	88	57	59	59
5	LQPMH 119	87	86	103	87	138	96	100	100	54	51	47	49	88	54	57	57
6	LQPMH 219	87	90	97	89	136	95	99	99	55	54	44	50	86	55	57	57
7	LQPMH 319	87	89	98	93	137	96	100	100	53	51	44	51	87	52	56	56
8	LQPMH118	89	84	104	95	137	103	102	102	57	55	47	53	87	57	59	59
9	SQPMH2	86	89	102	91	140	97	101	101	55	51	46	50	89	55	58	58
10	APQH1 (QPM+Pro A)	89	85	107	100	138	112	105	105	58	57	54	57	87	60	62	62
11	HQPM1 (C)	88	105	106	102	137	111	108	108	59	58	53	57	87	60	62	62
12	HQPM5 (C)	89	99	107	102	134	110	107	107	61	59	51	59	88	60	63	63
13	HQPM 7 (C)	89	106	110	101	133	111	108	108	58	59	54	56	85	61	62	62
14	Vivek QPM 9 (C)	86	84	99	91	134	96	98	98	51	50	44	49	85	50	55	55
15	APQH9 (C for Pro Vit A)	87	89	102	92	136	96	100	100	53	50	48	51	86	52	57	57
	Location Mean	87.4	90.8	102.4	93.7	136.0	101.3	102.0	102.0	55.7	53.8	47.7	53.1	87.0	56.1	58.9	58.9
	CV (%)	0.9	0.6	3.3	4.0	2.5	2.9	2.7	2.7	3.6	1.1	4.0	3.1	2.6	4.3	3.2	3.2
	F (Prob)	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
	CD (5%)	1.3	1.0	5.6	6.2	5.8	5.0	1.8	1.8	3.3	1.0	3.2	2.7	3.7	4.0	1.2	1.2
	CD (1%)	1.7	1.3	7.5	8.4	7.8	6.7	2.4	2.4	4.5	1.3	4.3	3.7	5.1	5.4	1.6	1.6

Table No. : 23 (Conti...)		Days to 50% Silking								Plant Height (cm)							
S. No.	Entry Name	NHZ							All India	NHZ							All India
		BAJU	BARA	GOSS	IMPH	SRIN	VPKA	ZONE		BAJU	BARA	GOSS	IMPH	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APH1 (Pro vit A)	60	59	56	58	88	58	63	63	198	186	161	239	215	243	207	207
2	FQH140	55	53	49	51	90	54	59	59	208	172	166	235	212	247	207	207
3	FQH160	56	55	49	57	91	58	61	61	205	190	176	256	228	273	221	221
4	FQH165	59	55	48	58	91	58	62	62	172	157	160	232	224	223	195	195
5	LQPMH 119	56	55	54	53	90	56	61	61	213	180	187	265	233	260	223	223
6	LQPMH 219	57	56	47	54	89	56	60	60	192	180	168	273	214	260	215	215
7	LQPMH 319	55	55	49	57	89	54	60	60	183	179	157	223	228	238	202	202
8	LQPMH118	59	59	54	57	90	59	63	63	197	176	184	223	201	263	208	208
9	SQPMH2	57	55	53	55	92	56	61	61	192	183	169	239	215	232	205	205
10	APQH1 (QPM+Pro A)	60	61	58	59	91	62	65	65	207	176	167	239	213	260	210	210
11	HQPM1 (C)	62	63	58	60	89	61	65	65	200	173	153	241	209	270	208	208
12	HQPM5 (C)	63	63	56	62	92	61	66	66	200	195	180	264	225	277	224	224
13	HQPM 7 (C)	60	63	59	58	88	62	65	65	207	175	192	263	217	255	218	218
14	Vivek QPM 9 (C)	53	53	49	51	87	51	58	58	197	187	171	248	223	243	211	211
15	APQH9 (C for Pro Vit A)	55	53	54	54	88	52	59	59	195	173	157	231	200	237	199	199
	Location Mean	57.8	57.3	52.9	56.2	89.7	57.1	61.8	61.8	197.7	178.9	170.0	244.8	217.2	252.1	210.1	210.1
	CV (%)	3.4	1.0	4.1	4.6	2.8	4.4	3.5	3.5	6.8	3.6	8.5	9.2	5.2	4.2	6.7	6.7
	F (Prob)	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.1	0.2	0.0	0.0	0.0	0.0
	CD (5%)	3.3	0.9	3.6	4.3	4.2	4.2	1.4	1.4	22.3	10.8	24.1	37.8	19.0	17.7	9.2	9.2
	CD (1%)	4.5	1.3	4.9	5.8	5.7	5.6	1.9	1.9	30.1	14.6	32.5	51.0	25.6	23.8	12.2	12.2

Table No. : 24 Trial No. 662 (BC-I-II-III) Baby corn yield with husk Kg/ha

S. No.	Entry Name	CWZ										NEPZ					
		AMBI		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	ABHS4-1	8792	10	5243	7	1896	11	4194	10	5310	9	9758	6	7050	10	3382	12
2	ABHS4-2	10257	6	5472	6	2847	3	5269	3	6192	6	11041	3	7045	11	3785	7
3	AH 5021	2118	15	417	14	737	14	1417	15	1086	15	.		.		.	
4	AH 7043	3410	14	379	15	722	15	3153	13	1522	14	.		5785	14	.	
5	AH 7188	12458	2	6514	2	2222	8	5007	5	7065	2	10123	5	9632	1	4368	4
6	AH 7204	9306	8	4604	8	3326	1	4375	8	5745	8	7008	10	7056	9	2535	13
7	AHB 7985	12174	3	4417	9	2319	7	4028	12	6303	5	11602	2	8241	2	3479	10
8	BAU BCH 18-1	7431	12	2813	13	2594	4	4215	9	4279	12	3056	13	7558	6	4583	2
9	DBCH 326	11493	4	6090	4	2542	5	3083	14	6708	4	7104	9	8076	4	4035	6
10	IMHSB-19KB-1	8118	11	4118	11	2000	10	4410	7	4745	11	7412	8	7819	5	4507	3
11	IMHSB-19KB-2	9000	9	5819	5	2493	6	5042	4	5771	7	8560	7	8104	3	4917	1
12	LMH 3517	9354	7	4215	10	1889	12	5625	1	5153	10	6603	11	6601	12	4042	5
13	PAC 321	12667	1	6097	3	2021	9	4035	11	6928	3	13877	1	7306	8	3583	9
14	CMVL Baby corn 2 (C)	11451	5	8028	1	2938	2	5465	2	7472	1	10616	4	7552	7	3444	11
15	HM 4 (C)	7299	13	2951	12	1736	13	4424	6	3995	13	6594	12	6073	13	3708	8
	Location Mean	9022	.	4583	.	2181	.	4217	.	5290	.	8720	.	7515	.	3874	.
	CV (%)	12	.	20	.	**25**	.	**38**	.	16	.	**22**	.	17	.	**26**	.
	F (Prob)	0.0	.	0.0	.	0.0	.	0.3	.	0.0	.	0.0	.	0.2	.	0.3	.
	CD (5%)	1747	.	1566	.	904	.	2682	.	815	.	3248	.	2123	.	1666	.
	CD (1%)	2356	.	2114	.	1220	.	3622	.	1081	.	4401	.	2881	.	2257	.

Baby corn yield Kg/ha

S. No.	Entry Name	CWZ										NEPZ					
		AMBI		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	ABHS4-1	1785	10	1208	8	455	10	1139	9	1497	9	2742	6	2349	10	1000	12
2	ABHS4-2	2111	6	1285	7	601	3	1287	5	1698	7	3163	4	2236	12	1104	10
3	AH 5021	451	15	118	14	545	5	306	15	285	15	.		.		.	
4	AH 7043	799	14	50	15	469	9	771	14	438	14	.		1999	14	.	
5	AH 7188	2597	2	2014	1	497	7	1333	4	2306	1	3988	1	3365	1	1306	5
6	AH 7204	1917	8	1514	4	625	2	1222	6	1715	6	2413	7	2271	11	785	13
7	AHB 7985	2632	1	1361	5	431	11	1208	7	1997	4	3843	2	2753	3	1146	7
8	BAU BCH 18-1	1528	12	1007	11	490	8	1188	8	1267	12	1069	13	2528	6	1368	3
9	DBCH 326	2444	4	1778	3	569	4	1118	11	2111	3	2356	9	3163	2	1375	2
10	IMHSB-19KB-1	1688	11	1128	9	427	12	1139	9	1408	11	2223	10	2597	5	1319	4
11	IMHSB-19KB-2	1847	9	1111	10	524	6	1458	2	1479	10	2363	8	2701	4	1542	1
12	LMH 3517	1931	7	1354	6	361	14	1535	1	1642	8	1685	12	2365	9	1264	6
13	PAC 321	2521	3	972	12	420	13	1056	13	1747	5	3714	3	2396	8	1132	8
14	CMVL Baby corn 2 (C)	2326	5	1924	2	649	1	1424	3	2125	2	3060	5	2490	7	1104	10
15	HM 4 (C)	1319	13	778	13	361	14	1090	12	1049	13	1930	11	2000	13	1132	8
	Location Mean	1860	.	1203	.	495	.	1146	.	1535	.	2658	.	2546	.	1198	.
	CV (%)	11	.	**29**	.	**31**	.	**38**	.	19	.	**30**	.	18	.	**24**	.
	F (Prob)	0.0	.	0.0	.	0.4	.	0.2	.	0.0	.	0.0	.	0.1	.	0.2	.
	CD (5%)	350	.	587	.	253	.	733	.	333	.	1364	.	781	.	480	.
	CD (1%)	473	.	792	.	342	.	990	.	443	.	1848	.	1059	.	650	.
		Note: Locations with >20% CV are not considered for calculating the zonal mean															

Table No. : 24 (Conti...) **Baby corn yield with husk Kg/ha**

S. No.	Entry Name	NEPZ										NWPZ										PZ			
		DHOL		NADI		RANC		SABO		ZONE		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	ABHS4-1	9583	11	33915	3	9211	12	2778	11	8187	12	7480	3	3908	4	8604	5	6747	11	6685	4	10043	5	1468	11
2	ABHS4-2	12361	4	28071	8	10949	3	3594	4	8997	5	7271	6	4515	2	7817	9	7714	3	6829	3	9054	11	3024	7
3	AH 5021	4722	14	41696	1	.		3721	2	.		7541	2	3733	8	1827	14	1292	15	3598	14	6359	15	632	15
4	AH 7043	4653	15	32100	6	.		2258	14	.		7241	7	2799	15	1354	15	1706	14	3275	15	8054	13	854	14
5	AH 7188	11181	7	29088	7	11347	1	3349	5	10490	1	7069	9	3089	14	8526	6	7767	2	6613	6	10104	4	3442	4
6	AH 7204	7222	13	22785	12	10151	6	1563	15	8603	8	7324	4	3526	9	9686	2	7300	4	6959	2	8665	12	1242	13
7	AHB 7985	10833	10	25356	10	9740	10	3116	7	8990	6	6743	14	3457	12	9022	3	7139	6	6590	7	10831	1	3176	5
8	BAU BCH 18-1	12500	3	12632	15	10984	2	2898	10	9271	3	6888	10	3389	13	8980	4	3022	13	5570	13	7361	14	2646	8
9	DBCH 326	11146	8	23835	11	10429	5	2441	13	9253	4	6869	11	4092	3	7887	8	7786	1	6659	5	9918	6	3069	6
10	IMHSB-19KB-1	11563	5	32671	5	9033	13	3034	9	8426	10	5916	15	3906	5	6666	13	6883	9	5843	12	9206	10	2324	9
11	IMHSB-19KB-2	13090	1	33033	4	10664	4	4107	1	9384	2	6767	13	3488	11	8351	7	7247	5	6463	9	10247	3	4469	1
12	LMH 3517	11354	6	22560	13	9801	9	3113	8	8201	11	7288	5	3889	6	7319	11	6558	12	6264	11	9503	8	2164	10
13	PAC 321	8854	12	38649	2	9597	11	3691	3	8451	9	7180	8	3780	7	10235	1	7050	7	7061	1	9744	7	4213	2
14	CMVL Baby corn 2 (C)	12847	2	19456	14	9865	8	3259	6	8709	7	6813	12	4732	1	7658	10	7033	8	6559	8	10254	2	3886	3
15	HM 4 (C)	11146	8	26225	9	9999	7	2496	12	8036	13	7716	1	3519	10	7088	12	6758	10	6270	10	9351	9	1439	12
	Location Mean	10204	.	28138	.	10136	.	3028	.	8825	.	7074	.	3721	.	7401	.	6134	.	6083	.	9246	.	2660	.
	CV (%)	**22**	.	**22**	.	13	.	**30**	.	15	.	6	.	19	.	12	.	11	.	11	.	8	.	**26**	.
	F (Prob)	0.0	.	0.0	.	0.6	.	0.2	.	0.0	.	0.0	.	0.2	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.
	CD (5%)	3839	.	10356	.	2227	.	1536	.	1595	.	651	.	1188	.	1445	.	1111	.	546	.	1302	.	1142	.
	CD (1%)	5178	.	13971	.	3017	.	2072	.	2128	.	878	.	1603	.	1950	.	1499	.	722	.	1756	.	1545	.

Baby corn yield Kg/ha

S. No.	Entry Name	NEPZ										NWPZ										PZ			
		DHOL		NADI		RANC		SABO		ZONE		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	ABHS4-1	2188	12	9158	6	Data not		548	12	2375	9	2338	7	2067	6	1857	4	2019	9	2070	4	2723	6	368	11
2	ABHS4-2	2514	9	8240	9	provided		699	5	2236	12	2364	6	1949	11	1535	9	2194	3	2010	8	2549	10	586	6
3	AH 5021	851	15	13525	1			781	2	.		2561	3	1935	12	351	14	347	15	1299	14	1934	15	110	15
4	AH 7043	1250	14	10989	4			520	13	1949	14	2430	5	1985	8	264	15	424	14	1276	15	2309	13	130	14
5	AH 7188	2535	7	10994	3			732	3	3365	1	2291	10	1859	13	1895	3	2228	2	2068	5	3067	3	872	1
6	AH 7204	2326	11	8275	8			426	15	2271	11	2663	2	1991	7	2066	1	2064	6	2196	1	2222	14	301	13
7	AHB 7985	2535	7	8075	10			727	4	2753	3	2122	13	1767	15	2000	2	2092	4	1995	10	3301	1	754	2
8	BAU BCH 18-1	2569	6	3196	15			579	11	2528	6	2188	11	1793	14	1773	5	903	13	1664	13	2365	12	546	7
9	DBCH 326	2778	3	7215	11			653	7	3163	2	2168	12	2093	5	1566	8	2269	1	2024	7	2549	11	536	8
10	IMHSB-19KB-1	2674	5	8631	7			670	6	2597	5	1964	15	2212	3	1395	12	1936	10	1877	11	2768	5	511	9
11	IMHSB-19KB-2	3438	1	10067	5			800	1	2701	4	1971	14	1982	10	1441	11	2046	7	1860	12	2940	4	739	3
12	LMH 3517	2708	4	5806	14			611	8	2365	10	2321	9	2528	1	1595	7	1869	12	2079	3	2684	8	485	10
13	PAC 321	1854	13	11358	2			608	9	2396	8	2436	4	1984	9	1760	6	2036	8	2054	6	3152	2	628	5
14	CMVL Baby corn 2 (C)	3438	1	7107	12			608	9	2490	7	2337	8	2095	4	1495	10	2067	5	1998	9	2700	7	633	4
15	HM 4 (C)	2396	10	7044	13			490	14	2000	13	2738	1	2346	2	1326	13	1914	11	2081	2	2621	9	324	12
	Location Mean	2403	.	8645	.			630	.	2546	.	2326	.	2039	.	1488	.	1761	.	1903	.	2659	.	529	.
	CV (%)	**36**	.	**25**	.			**27**	.	18	.	13	.	20	.	12	.	11	.	14	.	12	.	**29**	.
	F (Prob)	0.1	.	0.0	.			0.3	.	0.0	.	0.1	.	0.7	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.
	CD (5%)	1462	.	3624	.			282	.	879	.	504	.	671	.	292	.	321	.	222	.	553	.	256	.
	CD (1%)	1972	.	4888	.			380	.	1193	.	679	.	906	.	394	.	433	.	294	.	746	.	347	.

Note: Locations with >20% CV are not considered for calculating the zonal mean

Table No. : 24 (Conti...) Baby corn yield with husk Kg/ha

S. No.	Entry Name	PZ														All India	
		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	ABHS4-1	5846	8	5222	9	5815	15	5194	11	5831	10	10563	9	7028	10	6681	9
2	ABHS4-2	5331	10	3551	13	6903	9	5885	9	9550	2	11627	4	6757	11	7013	7
3	AH 5021	.		.		6432	11	.		.		7175	15	.		.	
4	AH 7043	.		.		6221	12	.		.		7211	14	.		.	
5	AH 7188	7115	2	5710	5	6061	14	7333	4	9726	1	10813	8	8184	3	7765	1
6	AH 7204	5636	9	5531	7	6128	13	6844	5	5394	11	8854	13	7048	9	6952	8
7	AHB 7985	6611	4	4444	12	8140	2	7583	3	8898	3	11939	3	8342	1	7356	4
8	BAU BCH 18-1	5275	11	7065	1	8982	1	4215	12	5141	13	10003	11	5617	13	5876	13
9	DBCH 326	5860	7	5568	6	7149	8	5503	10	6951	8	11422	5	7094	7	7212	5
10	IMHSB-19KB-1	6482	5	5178	10	7409	7	6403	7	7642	6	10915	6	7363	6	6379	11
11	IMHSB-19KB-2	7760	1	6900	2	7521	5	5944	8	7692	5	9960	12	7984	4	7157	6
12	LMH 3517	4890	12	4504	11	7859	3	6823	6	6917	9	11966	2	7072	8	6511	10
13	PAC 321	6986	3	6585	3	7572	4	8288	1	7613	7	12741	1	8340	2	7579	2
14	CMVL Baby corn 2 (C)	5908	6	5800	4	7458	6	7677	2	7767	4	10816	7	7946	5	7492	3
15	HM 4 (C)	4397	13	5385	8	6494	10	3917	13	5310	12	10364	10	5888	12	5900	12
	Location Mean	6008	.	5496	.	7076	.	6278	.	7264	.	10588	.	7278	.	6580	.
	CV (%)	20	.	**28**	.	**22**	.	17	.	**25**	.	**22**	.	14	.	14	.
	F (Prob)	0.1	.	0.3	.	0.5	.	0.0	.	0.1	.	0.4	.	0.0	.	0.0	.
	CD (5%)	1982	.	2596	.	2601	.	1822	.	3026	.	3945	.	937	.	433	.
	CD (1%)	2685	.	3518	.	3508	.	2470	.	4101	.	5339	.	1243	.	570	.

Baby corn yield Kg/ha

S. No.	Entry Name	PZ														All India	
		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	ABHS4-1	1315	12	930	10	923	15	1133	10	1319	10	2382	9	2723	6	2052	8
2	ABHS4-2	1438	10	981	9	1106	12	908	12	1994	3	2825	2	2549	10	2028	9
3	AH 5021	.		.		1113	10	.		.		1872	15	1934	15	.	
4	AH 7043	.		.		1190	8	.		.		2216	11	2309	13	1270	14
5	AH 7188	2228	2	1205	3	1158	9	2155	2	2543	1	2687	5	3067	3	2414	1
6	AH 7204	2635	1	1113	7	998	13	1675	4	1303	11	2091	13	2222	14	2088	6
7	AHB 7985	1993	5	1121	5	1720	1	2406	1	2378	2	2718	4	3301	1	2254	3
8	BAU BCH 18-1	1493	8	1390	1	1572	2	976	11	1233	12	2429	8	2365	12	1760	13
9	DBCH 326	1743	6	846	13	1111	11	1507	6	1483	9	2443	7	2549	11	2254	2
10	IMHSB-19KB-1	2010	4	1113	6	1313	5	1415	8	1597	6	2138	12	2768	5	1961	11
11	IMHSB-19KB-2	2196	3	1302	2	1286	6	1215	9	1647	5	1996	14	2940	4	2005	10
12	LMH 3517	1480	9	874	12	1378	4	1952	3	1569	8	3039	1	2684	8	2081	7
13	PAC 321	1709	7	1140	4	1274	7	1491	7	1574	7	2726	3	3152	2	2157	5
14	CMVL Baby corn 2 (C)	1314	13	1053	8	1382	3	1642	5	1762	4	2458	6	2700	7	2179	4
15	HM 4 (C)	1392	11	904	11	998	14	774	13	1087	13	2282	10	2621	9	1880	12
	Location Mean	1765	.	1075	.	1235	.	1481	.	1653	.	2438	.	2659	.	1978	.
	CV (%)	**33**	.	**22**	.	**26**	.	**33**	.	**24**	.	**25**	.	12	.	16	.
	F (Prob)	0.2	.	0.2	.	0.2	.	0.0	.	0.0	.	0.7	.	0.0	.	0.0	.
	CD (5%)	971	.	389	.	535	.	811	.	673	.	1043	.	545	.	182	.
	CD (1%)	1316	.	528	.	721	.	1099	.	912	.	1412	.	735	.	240	.

Table No. : 24 **(Conti...)** **Days to 50% Anthesis**

S. No.	Entry Name	CWZ				NEPZ					NWPZ				PZ							All
		AMBI	CHIND	GODH	ZONE	DHOL	NADI	RANC	SABO	ZONE	IARI	KARN	LUDH	ZONE	COIM	KARI	KOLH	MAND	PEDD	RAHU	ZONE	India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mea
1	ABHS4-1	46	55	52	51	58	55	41	50	51	45	47	49	47	48	52	57	53	46	56	52	51
2	ABHS4-2	47	56	52	52	59	56	43	52	53	44	48	51	48	50	55	55	54	47	57	53	52
3	AH 5021	45	58	54	52	59	57	.	52	.	43	50	54	49	51	.	59	.	.	57	.	.
4	AH 7043	48	59	57	55	60	58	.	51	.	43	47	54	48	48	.	57	.	.	54	.	.
5	AH 7188	45	53	57	52	58	54	43	48	51	44	50	48	47	48	53	58	53	45	55	52	51
6	AH 7204	44	52	56	50	54	54	41	49	50	40	47	47	45	47	49	56	50	42	54	50	49
7	AHB 7985	47	54	57	53	56	55	43	48	50	41	49	50	47	47	54	57	52	46	55	52	51
8	BAU BCH 18-1	48	59	55	54	61	61	46	53	55	46	49	54	50	53	58	56	58	50	59	55	54
9	DBCH 326	47	55	60	54	58	56	44	52	53	43	50	49	47	50	54	58	54	47	56	53	52
10	IMHSB-19KB-1	47	58	54	53	59	56	42	52	52	43	48	52	48	51	55	56	54	48	57	54	52
11	IMHSB-19KB-2	50	58	50	53	60	57	44	54	54	45	50	56	50	53	58	61	59	48	58	56	54
12	LMH 3517	45	54	54	51	59	56	41	49	51	41	49	48	46	46	52	55	50	45	54	50	50
13	PAC 321	50	58	58	55	59	56	44	53	53	47	48	52	49	51	59	60	60	48	58	56	54
14	CMVL Baby corn 2 (C)	44	51	55	50	60	56	41	48	51	42	50	47	46	46	49	56	50	42	55	50	50
15	HM 4 (C)	47	58	56	54	58	57	44	52	53	41	49	50	47	49	54	56	55	47	56	53	52
	L Mean	47	56	55	52	59	56	43	51	52	43	49	51	47	49	54	57	54	46	56	53	52
	CV (%)	3.8	2.5	7.5	5.2	2.0	4.1	3.2	3.5	3.3	2.6	3.0	3.8	3.2	2.3	4.2	7.6	1.8	3.3	3.0	4.3	4.1
	F (Prob)	0.0	0.0	0.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0
	CD (5%)	3	2	7	3	2	4	2	3	1	2	2	3	1	2	4	7	2	3	3	1	1
	CD (1%)	4	3	9	3	3	5	3	4	2	3	3	4	2	3	5	10	2	3	4	2	1

The baby corn diameter of Godra, CWZ, Dholi, Ranchi, Hyderabad, Kolhapur and Rahuri are not taken at right stage so not reliable

Table No. : 24 (Conti...) Baby corn Diameter (cm)

S. No.	Entry Name	CWZ			NEPZ							
		AMBI	GODH	ZONE	BHU	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ABHS4-1	1.1	5.2	3.1	1.4	1.4	1.4	3.8	1.7	2.6	1.1	1.8
2	ABHS4-2	1.2	4.5	2.8	1.7	1.2	1.3	3.9	1.5	2.5	1.1	1.8
3	AH 5021	1.2	4.9	3.1	.	.	.	3.7	1.7	.	1.2	.
4	AH 7043	1.3	4.8	3.0	.	1.2	.	4.3	1.5	3.5	1.2	.
5	AH 7188	1.2	5.3	3.3	1.6	1.4	1.4	3.8	2.0	2.5	1.1	1.9
6	AH 7204	1.3	4.9	3.1	1.6	1.3	1.2	3.7	2.1	4.5	1.2	1.9
7	AHB 7985	1.3	4.6	3.0	1.7	1.4	1.3	4.4	1.7	2.7	1.4	2.0
8	BAU BCH 18-1	1.2	4.8	3.0	1.4	1.3	1.3	4.0	1.4	2.8	1.1	1.7
9	DBCH 326	1.3	4.8	3.0	1.7	1.4	1.3	3.9	1.8	2.6	1.1	1.9
10	IMHSB-19KB-1	1.2	4.2	2.7	1.7	1.3	1.3	3.4	1.7	2.7	1.0	1.7
11	IMHSB-19KB-2	1.3	4.8	3.1	1.6	1.3	1.3	4.1	1.6	2.7	1.3	1.9
12	LMH 3517	1.3	5.3	3.3	1.5	1.4	1.3	3.9	1.7	2.9	1.2	1.8
13	PAC 321	1.3	4.8	3.1	1.8	1.3	1.2	4.2	1.5	2.5	1.1	1.8
14	CMVL Baby corn 2 (C)	1.2	4.4	2.8	1.7	1.4	1.3	4.0	1.7	2.3	1.2	1.9
15	HM 4 (C)	1.2	4.9	3.1	1.6	1.4	1.4	4.0	1.6	2.3	1.2	1.9
	Location Mean	1.2	4.8	3.0	1.6	1.4	1.3	3.9	1.7	2.8	1.2	1.9
	CV (%)	8.8	9.1	10.4	7.6	10.8	8.7	8.5	9.9	**33.4**	13.3	10.3
	F (Prob)	0.6	0.2	0.0	0.0	0.7	0.5	0.1	0.0	0.4	0.2	0.0
	CD (5%)	0.2	0.7	0.4	0.2	0.3	0.2	0.6	0.3	1.6	0.3	0.1
	CD (1%)	0.3	1.0	0.5	0.3	0.3	0.3	0.8	0.4	2.1	0.4	0.2

Note: Locations with >20% CV are not considered for calculating the zonal mean

Table No. : 24 (Conti...) **Baby corn Diameter (cm)**

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ABHS4-1	1.3	1.5	1.1	1.1	1.2	1.4	1.4	3.9	1.0	1.8	1.2	1.1	4.9	2.1	1.9
2	ABHS4-2	1.3	1.8	1.1	1.1	1.3	1.4	1.5	4.0	1.0	1.8	1.1	1.2	4.4	2.0	1.9
3	AH 5021	1.4	1.6	1.1	1.1	1.3	1.4	1.4	.	.	2.5	.	.	4.6	.	.
4	AH 7043	1.3	1.5	1.1	1.2	1.3	1.4	1.3	.	.	2.3	.	.	5.5	.	.
5	AH 7188	1.3	1.5	1.2	1.1	1.3	1.4	1.4	4.2	1.3	2.4	1.2	1.1	5.0	2.3	2.1
6	AH 7204	1.3	2.1	1.4	1.1	1.5	1.2	1.4	4.4	1.3	2.2	1.5	1.3	4.7	2.3	2.1
7	AHB 7985	1.3	1.5	1.3	1.2	1.3	1.5	1.6	4.3	1.1	2.8	1.3	1.2	5.1	2.4	2.1
8	BAU BCH 18-1	1.3	1.5	1.2	1.1	1.3	1.4	1.4	4.3	1.1	2.4	1.2	1.1	5.8	2.4	2.0
9	DBCH 326	1.3	1.4	1.2	1.1	1.3	1.5	1.5	4.2	1.1	2.3	1.1	1.2	4.5	2.2	2.0
10	IMHSB-19KB-1	1.3	1.6	1.1	1.1	1.3	1.6	1.5	4.3	1.1	2.3	1.2	1.2	5.0	2.3	1.9
11	IMHSB-19KB-2	1.3	1.5	1.2	1.2	1.3	1.4	1.4	4.1	1.0	2.5	1.1	1.1	4.7	2.2	2.0
12	LMH 3517	1.2	1.5	1.1	1.1	1.3	1.2	1.5	4.0	1.2	2.3	1.5	1.1	4.4	2.2	2.0
13	PAC 321	1.4	1.6	1.0	1.1	1.3	1.5	1.4	3.8	1.1	2.3	1.1	1.0	4.1	2.0	1.9
14	CMVL Baby corn 2 (C)	1.3	1.5	1.0	1.2	1.2	1.5	1.5	4.0	1.1	2.3	1.5	1.1	4.8	2.2	2.0
15	HM 4 (C)	1.3	1.6	1.2	1.1	1.3	1.4	1.5	4.0	1.2	2.0	1.1	1.2	4.5	2.1	2.0
	Location Mean	1.3	1.6	1.2	1.1	1.3	1.4	1.5	4.1	1.1	2.3	1.2	1.1	4.8	2.2	2.0
	CV (%)	5.4	16.1	11.1	6.6	11.5	9.3	9.4	6.9	15.3	10.0	10.9	10.1	10.2	11.0	11.1
	F (Prob)	0.5	0.2	0.1	0.5	0.0	0.1	0.7	0.3	0.5	0.0	0.0	0.5	0.1	0.0	0.0
	CD (5%)	0.1	0.4	0.2	0.1	0.1	0.2	0.2	0.5	0.3	0.4	0.2	0.2	0.8	0.1	0.1
	CD (1%)	0.2	0.6	0.3	0.2	0.2	0.3	0.3	0.7	0.4	0.5	0.3	0.3	1.1	0.2	0.1

Table No. : 24	(Conti...)	Baby corn Length (cm)												
S. No.	Entry Name	CWZ					NEPZ							
		AMBI	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ABHS4-1	6.3	9.9	8.8	7.5	8.1	12.9	10.6	9.0	8.6	12.0	6.9	8.5	9.8
2	ABHS4-2	6.8	8.5	8.9	8.6	8.2	13.3	8.7	8.5	9.6	10.5	6.6	8.4	9.4
3	AH 5021	6.9	10.1	9.0	7.9	8.5	.	.	.	8.7	10.8	.	9.0	.
4	AH 7043	7.9	9.8	8.8	8.4	8.7	.	8.8	.	8.4	10.6	.	9.3	.
5	AH 7188	7.5	8.9	8.9	8.5	8.4	12.2	10.6	8.7	8.2	11.9	6.2	9.2	9.6
6	AH 7204	6.0	7.6	9.2	7.6	7.6	10.5	9.5	7.7	8.6	9.0	6.7	9.2	8.7
7	AHB 7985	6.5	9.2	9.3	7.7	8.2	12.2	9.8	8.8	9.7	10.5	6.1	9.2	9.5
8	BAU BCH 18-1	7.8	11.4	9.3	7.9	9.1	12.9	11.1	9.3	10.0	10.0	7.5	13.9	10.7
9	DBCH 326	6.5	9.3	9.2	7.1	8.0	11.3	9.7	8.7	8.9	10.7	6.1	9.1	9.2
10	IMHSB-19KB-1	6.7	9.0	8.1	8.0	8.0	11.0	10.0	8.1	9.2	11.1	6.9	8.0	9.2
11	IMHSB-19KB-2	7.1	10.6	9.7	7.0	8.6	12.0	9.7	9.0	8.4	11.0	7.2	9.9	9.6
12	LMH 3517	7.8	9.7	9.6	7.9	8.7	11.9	10.4	9.2	9.5	9.7	6.5	8.1	9.3
13	PAC 321	7.3	7.5	9.3	8.2	8.1	13.3	9.5	7.3	9.6	10.1	6.1	9.0	9.3
14	CMVL Baby corn 2 (C)	6.9	9.5	9.1	7.7	8.3	13.1	10.5	8.9	10.0	10.4	6.7	7.8	9.6
15	HM 4 (C)	6.7	8.3	9.0	7.9	8.0	12.6	9.8	8.8	9.4	10.6	6.3	8.3	9.4
	Location Mean	7.0	9.3	9.1	7.8	8.3	12.2	10.0	8.6	9.1	10.6	6.6	9.1	9.5
	CV (%)	9.3	12.5	9.2	10.0	10.6	7.3	9.4	10.0	10.4	7.3	9.1	15.1	10.0
	F (Prob)	0.0	0.0	0.8	0.5	0.0	0.0	0.3	0.2	0.3	0.0	0.2	0.0	0.0
	CD (5%)	1.1	2.0	1.4	1.3	0.7	1.5	1.6	1.5	1.6	1.3	1.0	2.3	0.6
	CD (1%)	1.5	2.6	1.9	1.8	1.0	2.0	2.1	2.0	2.1	1.8	1.4	3.1	0.8

Table No. : 24	(Conti...)	Baby corn Length (cm)														
S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ABHS4-1	8.4	7.6	8.7	11.9	9.2	11.0	8.3	8.1	9.4	6.8	10.0	9.0	10.1	9.1	9.2
2	ABHS4-2	8.8	8.1	8.5	11.1	9.1	10.4	9.1	7.9	8.7	6.5	8.8	10.9	9.6	9.0	9.0
3	AH 5021	8.7	8.3	8.3	11.2	9.1	10.6	7.9	.	.	7.1	.	.	8.7	.	.
4	AH 7043	8.4	7.7	8.5	10.4	8.7	10.9	7.3	.	.	6.6	.	.	12.2	.	.
5	AH 7188	8.5	9.2	9.1	11.2	9.5	10.7	7.9	8.1	8.8	7.0	9.6	10.1	10.5	9.1	9.2
6	AH 7204	8.4	7.9	8.3	10.8	8.8	9.3	7.3	8.0	7.4	6.6	8.6	8.5	7.7	7.9	8.3
7	AHB 7985	8.2	8.0	8.7	11.9	9.2	10.1	8.4	8.7	9.0	7.2	8.8	9.2	10.0	8.9	9.0
8	BAU BCH 18-1	8.5	8.4	9.5	11.0	9.3	10.6	9.0	7.5	9.5	7.7	10.1	10.6	12.4	9.7	9.8
9	DBCH 326	8.5	7.5	7.4	11.2	8.7	10.4	7.7	8.2	8.4	7.2	8.2	10.7	9.3	8.8	8.8
10	IMHSB-19KB-1	8.5	8.4	8.5	10.3	8.9	10.5	8.4	8.5	8.5	7.5	9.2	9.6	9.2	8.9	8.8
11	IMHSB-19KB-2	8.2	7.8	7.9	11.7	8.9	10.7	8.9	7.4	8.9	7.6	9.4	11.0	9.1	9.1	9.1
12	LMH 3517	8.6	8.4	8.3	11.4	9.2	10.0	8.6	8.2	8.5	7.4	10.3	10.1	9.5	9.1	9.1
13	PAC 321	8.4	8.3	9.1	11.3	9.3	10.4	7.8	7.5	8.9	6.5	8.8	9.4	8.3	8.4	8.8
14	CMVL Baby corn 2 (C)	8.4	7.5	8.4	12.1	9.1	10.7	8.2	7.8	8.6	6.9	10.1	9.3	9.6	8.9	9.1
15	HM 4 (C)	8.1	8.6	8.4	11.0	9.0	10.2	8.2	7.6	8.7	6.4	9.4	9.6	9.1	8.6	8.8
	Location Mean	8.4	8.1	8.5	11.2	9.1	10.4	8.2	8.0	8.7	7.0	9.3	9.8	9.6	8.9	9.0
	CV (%)	3.3	10.2	9.2	4.6	7.1	6.2	6.1	7.1	6.8	6.7	7.0	8.0	8.9	7.2	8.8
	F (Prob)	0.2	0.5	0.3	0.0	0.0	0.3	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	0.5	1.4	1.3	0.9	0.5	1.1	0.8	1.0	1.0	0.8	1.1	1.3	1.4	0.4	0.3
	CD (1%)	0.6	1.9	1.8	1.2	0.7	1.5	1.1	1.3	1.4	1.1	1.5	1.8	1.9	0.5	0.4

Table No. : 24 (Conti...) **Days to 50% Silking**

S. No.	Entry Name	CWZ					NEPZ							
		AMBI	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ABHS4-1	49	56	49	53	52	55	53	49	55	57	44	54	52
2	ABHS4-2	50	57	49	52	52	54	57	50	56	58	46	57	54
3	AH 5021	48	58	50	54	53	.	.	.	57	59	.	57	.
4	AH 7043	50	60	53	53	54	.	57	.	58	60	.	55	.
5	AH 7188	48	55	54	51	52	53	55	50	56	56	45	52	52
6	AH 7204	47	53	52	51	51	50	53	49	52	56	44	53	51
7	AHB 7985	50	56	53	52	53	52	56	51	54	57	45	52	52
8	BAU BCH 18-1	51	61	51	54	54	57	56	51	58	63	49	58	56
9	DBCH 326	50	57	56	51	54	57	55	51	56	58	48	56	54
10	IMHSB-19KB-1	50	59	50	52	53	56	56	51	57	59	46	56	54
11	IMHSB-19KB-2	52	59	47	55	53	56	56	51	58	59	37	58	54
12	LMH 3517	48	55	51	50	51	52	55	50	56	58	43	53	52
13	PAC 321	52	58	51	53	54	53	57	50	56	59	47	57	54
14	CMVL Baby corn 2 (C)	47	52	51	49	50	53	52	48	58	58	43	50	52
15	HM 4 (C)	50	59	53	53	54	54	56	50	56	59	47	57	54
	L Mean	49	57	51	52	52	54	55	50	56	58	45	55	54
	CV (%)	3.3	2.6	8.0	4.5	5.0	4.0	2.2	3.4	1.8	4.1	12.6	2.6	4.9
	F (Prob)	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.6	0.0	0.1	0.6	0.0	0.0
	CD (5%)	3	2	7	4	2	4	2	3	2	4	10	2	2
	CD (1%)	4	3	9	5	3	5	3	4	2	5	13	3	2

Table No. : 24 (Conti...) **Days to 50% Silking**

S. No.	Entry Name	NWPZ					PZ								All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ABHS4-1	49	48	49	58	51	51	56	54	58	54	48	57	54	52
2	ABHS4-2	49	49	51	59	52	52	59	57	57	55	49	58	55	54
3	AH 5021	47	52	55	61	53	54	.	.	61	.	.	59	.	.
4	AH 7043	46	49	54	61	52	52	.	.	59	.	.	57	.	.
5	AH 7188	46	51	49	58	51	52	59	55	60	55	47	56	55	53
6	AH 7204	45	48	48	57	50	49	56	51	59	51	44	54	52	51
7	AHB 7985	46	50	51	56	51	50	56	56	60	54	48	57	54	53
8	BAU BCH 18-1	49	50	57	60	54	55	64	60	58	58	52	61	58	56
9	DBCH 326	47	51	50	58	52	53	58	56	61	55	49	58	55	54
10	IMHSB-19KB-1	47	50	53	61	53	54	59	58	58	55	50	59	56	54
11	IMHSB-19KB-2	48	51	57	62	55	55	62	61	63	58	49	59	58	55
12	LMH 3517	45	50	49	57	50	49	57	54	57	51	47	56	53	52
13	PAC 321	51	49	53	60	53	54	62	61	62	57	50	60	58	55
14	CMVL Baby corn 2 (C)	45	51	48	57	50	49	56	51	59	51	44	57	52	51
15	HM 4 (C)	46	50	51	61	52	52	59	56	58	56	49	57	56	54
	L Mean	47	50	52	59	52	52	59	56	59	55	48	58	55	54
	CV (%)	2.8	3.4	3.4	2.8	3.1	2.4	2.2	4.2	7.8	2.6	3.0	3.5	4.2	4.5
	F (Prob)	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0
	CD (5%)	2	3	3	3	1	2	2	4	8	2	2	3	1	1
	CD (1%)	3	4	4	4	2	3	3	5	10	3	3	5	2	1

Table No. : 24 (Conti...)		Fodder Weight Kg/ha										
S. No.	Entry Name	CWZ			NEPZ							
		CHIN	GODH	ZONE	BHU	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ABHS4-1	19444	7361	13403	27986	41374	9444	20236	70514	19663	15428	23788
2	ABHS4-2	23819	8403	16111	34514	46736	9931	29271	62556	22160	16806	28522
3	AH 5021	1458	10347	5903	.	.	.	16750	74806	.	11801	.
4	AH 7043	-188	11458	5726	.	39959	.	15396	80597	.	8035	.
5	AH 7188	27014	8750	17882	32639	46667	9236	27833	58264	26103	15504	28496
6	AH 7204	15278	7847	11563	28264	45972	7847	21653	48569	19808	11741	24709
7	AHB 7985	20625	10694	15660	38125	41319	8333	24424	78597	24843	16417	27409
8	BAU BCH 18-1	33542	8542	21042	40069	46389	17431	38271	83514	24288	16780	33290
9	DBCH 326	27431	10694	19063	26736	46667	11944	25111	63681	33559	15523	28803
10	IMHSB-19KB-1	22500	11250	16875	34097	42153	10069	25410	68625	25095	17607	27365
11	IMHSB-19KB-2	32431	12292	22361	35625	51528	13889	35451	77333	33773	17039	34053
12	LMH 3517	13889	9306	11597	29792	44861	8889	25736	70319	28171	14725	27490
13	PAC 321	24306	9028	16667	30139	44167	10278	25736	70375	22742	12538	26612
14	CMVL Baby corn 2 (C)	21389	11111	16250	30347	46389	8264	26438	44833	22848	18026	26857
15	HM 4 (C)	20069	7014	13542	30139	45833	11111	25056	76944	19806	11623	26389
	L Mean	20724	9606	15103	32190	45353	10513	25518	68635	24835	14640	27617
	CV (%)	14	20	17	12	13	15	15	**21**	18	**24**	15
	F (Prob)	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.1	0.0	0.1	0.0
	CD (5%)	5008	3203	2894	6522	9827	2690	6227	23559	7582	5791	3044
	CD (1%)	6762	4321	3853	8839	13336	3645	8400	31780	10275	7812	4023
		Note: Locations with >20% CV are not considered for calculating the zonal mean										

Table No. : 24 **(Conti...)** **Fodder Weight Kg/ha**

S. No.	Entry Name	NWPZ					PZ								All India
		IARI Mean	KARN Mean	LUDH Mean	PANT Mean	ZONE Mean	COIM Mean	DHAR Mean	KARI Mean	KOLH Mean	MAND Mean	PEDD Mean	RAHU Mean	ZONE Mean	Mean
1	ABHS4-1	69259	31223	28526	37167	41544	21181	17361	13212	10957	23924	12917	64074	27061	27964
2	ABHS4-2	69259	31417	32051	40944	43418	22708	23194	12987	14673	22813	12778	65926	27442	30357
3	AH 5021	50741	36185	6250	7278	25113	18333	14810	.	11745	.	.	72805	.	.
4	AH 7043	61852	29973	5128	8944	26474	19236	23880	.	9000	.	.	47250	.	.
5	AH 7188	69259	30669	31891	39444	42816	21597	17708	15028	11450	27396	14792	66019	28966	30896
6	AH 7204	68267	28676	28205	33278	39606	18611	18472	14738	9899	23333	13819	59907	26082	27219
7	AHB 7985	73704	29621	32051	48167	45886	20694	23889	13531	10428	27813	12917	60000	26991	30429
8	BAU BCH 18-1	67926	29853	35897	41944	43905	28056	15625	14822	16238	26875	14028	74390	31728	33915
9	DBCH 326	65185	30902	31410	46944	43610	23403	20556	14754	11228	26632	14167	68704	29532	31515
10	IMHSB-19KB-1	77185	34497	34135	31278	44274	21250	26319	14746	17270	25903	14792	61944	27727	30394
11	IMHSB-19KB-2	58148	31338	35256	38056	40700	23333	27083	13678	10175	27049	13056	69630	29349	32783
12	LMH 3517	63333	29173	29167	36333	39501	21250	18542	14771	13621	23785	12639	57407	25970	28031
13	PAC 321	70370	31695	35096	42500	44916	22431	17500	16299	10686	27222	15139	59630	28144	30424
14	CMVL Baby corn 2 (C)	61556	30476	29808	41389	40807	21181	22153	12824	11108	26493	12500	58796	26359	28863
15	HM 4 (C)	67778	34152	28846	31500	40569	21250	20278	16056	9395	28715	15139	61667	28565	29008
	L Mean	66255	31323	28248	35011	40209	21634	20332	14419	11858	25996	13745	63095	28117	29479
	CV (%)	12	10	10	18	13	7	**33**	10	**32**	17	10	12	14	15
	F (Prob)	0.1	0.3	0.0	0.0	0.0	0.0	0.6	0.1	0.3	0.9	0.2	0.1	0.0	0.0
	CD (5%)	13361	5309	4557	10431	4386	2602	11240	2343	6352	7535	2358	12250	2814	1748
	CD (1%)	18024	7162	6147	14072	5801	3510	15212	3175	8569	10211	3195	16579	3719	2301

Table No. : 24 **(Conti...)** **Final Plant Stand**

S. No.	Entry Name	CWZ					NEPZ						
		AMBI	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	NADI	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ABHS4-1	72917	76389	63194	44444	64236	90972	115828	97222	71528	155556	68056	99955
2	ABHS4-2	83333	85417	75000	69271	78198	104861	115278	89583	88889	125000	79167	100463
3	AH 5021	11111	5556	70139	16667	25868	.	.	.	30556	141667	47222	.
4	AH 7043	25694	1042	57639	46528	33180	.	118345	.	38194	147222	43403	.
5	AH 7188	100694	90972	64583	68056	81076	96528	120833	92361	84028	150000	75347	103183
6	AH 7204	83333	72917	66667	66667	72396	104167	113194	93750	86806	145833	69792	102257
7	AHB 7985	95139	72917	68056	44444	70139	104861	115278	95833	75000	152778	73958	102951
8	BAU BCH 18-1	65972	86111	72222	66667	72743	101389	116667	91667	84028	143056	68750	100926
9	DBCH 326	97917	95833	60417	59722	78472	101389	110417	97917	76389	147222	76042	101563
10	IMHSB-19KB-1	72222	71528	72222	55556	67882	102778	121528	94444	81250	145833	67014	102141
11	IMHSB-19KB-2	83333	79861	72222	58333	73438	95833	125694	95139	82639	150000	77083	104398
12	LMH 3517	78472	48611	65278	68056	65104	87500	114583	90278	84722	145833	66319	98206
13	PAC 321	94444	84028	70833	55556	76215	100000	118056	95833	83333	137500	76042	101794
14	CMVL Baby corn 2 (C)	92361	83333	73611	61111	77604	103472	112500	98611	88889	154167	76736	105729
15	HM 4 (C)	63194	54861	63889	61111	60764	90972	121528	96528	77083	147222	58681	98669
	L Mean	74676	68987	67731	55824	66854	98825	117094	94551	75556	145926	68241	99785
	CV (%)	9	16	13	**25**	16	7	7	7	11	11	9	9
	F (Prob)	0.0	0.0	0.5	0.0	0.0	0.0	0.8	0.8	0.0	0.8	0.0	0.0
	CD (5%)	11707	19009	15040	23149	8822	11382	14709	10394	13794	25752	10793	6264
	CD (1%)	15793	25668	20289	31260	11668	15425	19961	14085	18608	34739	14560	8270
		Note: Locations with >20% CV are not considered for calculating the zonal mean											

Table No. : 24 **(Conti...)** **Final Plant Stand**

S. No.	Entry Name	NWPZ					PZ								All India
		IARI Mean	KARN Mean	LUDH Mean	PANT Mean	ZONE Mean	COIM Mean	HYDE Mean	KARI Mean	KOLH Mean	MAND Mean	PEDD Mean	RAHU Mean	ZONE Mean	Mean
1	ABHS4-1	91852	108681	75000	75000	87633	60417	110417	95833	71875	67014	93750	102778	86012	86158
2	ABHS4-2	86667	107986	76923	88333	89977	63194	106944	95833	80903	67014	95833	106481	88029	90074
3	AH 5021	84444	110069	22436	12222	57293	46528	.	12500	70139	.	.	91409	.	.
4	AH 7043	86667	108333	22436	25000	60609	55556	.	24306	75694	.	.	92438	.	.
5	AH 7188	82963	93056	76282	89444	85436	64583	108333	93056	68750	65625	92361	110185	86128	89907
6	AH 7204	96296	107986	76923	83333	91135	62500	107639	95833	67361	66319	95833	108333	86260	89118
7	AHB 7985	88148	93750	76923	87222	86511	62500	112500	95833	69097	68403	96528	109259	87731	88497
8	BAU BCH 18-1	90370	92361	79487	81111	85832	63889	109028	94444	80208	74653	94444	106430	88889	88683
9	DBCH 326	97037	108333	78205	82778	91588	66667	109722	95139	70139	66319	94444	106481	86987	90406
10	IMHSB-19KB-1	89630	109722	76282	74444	87520	64583	109722	96528	75000	67708	94444	100926	86987	87779
11	IMHSB-19KB-2	88889	109375	78205	86667	90784	63889	106944	95139	65972	70139	94444	105556	86012	89779
12	LMH 3517	94815	109028	75000	86111	91238	64583	109028	96528	76736	65278	94444	102778	87054	86856
13	PAC 321	88148	109375	80128	78889	89135	63889	109028	95833	73958	70833	97917	104630	88013	89917
14	CMVL Baby corn 2 (C)	100741	109722	76282	85000	92936	61806	105556	95833	75000	69444	96528	99074	86177	91418
15	HM 4 (C)	80741	111111	75641	77778	86318	64583	108333	94444	71528	65972	96528	99074	85780	84800
	L Mean	89827	105926	69744	74222	84930	61944	108707	85139	72824	68056	95192	103505	84521	85379
	CV (%)	8	13	4	8	10	8	3	4	11	3	3	6	6	10
	F (Prob)	0.1	0.7	0.0	0.0	0.0	0.0	0.7	0.0	0.5	0.0	0.6	0.1	0.0	0.0
	CD (5%)	11679	22530	4619	10529	6602	8739	5941	5118	13035	3361	4567	10291	2918	2913
	CD (1%)	15755	30393	6230	14203	8731	11789	8051	6904	17583	4555	6189	13929	3849	3833

Table No. : 24 (Conti...) **Plant Height (cm)**

S. No.	Entry Name	CWZ					NEPZ							
		AMBI	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	NADI	SABO	ZONE	IARI
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ABHS4-1	213	133	127	157	157	156	121	116	156	152	184	148	148
2	ABHS4-2	191	126	107	178	150	183	145	121	154	161	181	166	159
3	AH 5021	206	139	123	175	161	.	.	.	156	164	189	138	.
4	AH 7043	209	101	122	168	151	.	19	.	160	145	176	118	.
5	AH 7188	197	149	140	192	169	178	145	112	162	160	194	156	158
6	AH 7204	208	130	118	163	155	168	135	104	165	152	199	143	152
7	AHB 7985	198	128	138	147	153	168	113	118	171	161	197	148	154
8	BAU BCH 18-1	201	153	126	192	168	192	143	145	167	166	193	156	166
9	DBCH 326	210	154	136	180	170	178	146	129	165	170	191	162	163
10	IMHSB-19KB-1	204	142	126	180	163	181	137	130	164	159	178	151	157
11	IMHSB-19KB-2	192	173	123	198	171	200	168	160	165	206	187	204	184
12	LMH 3517	209	126	117	165	154	158	120	114	161	146	181	137	145
13	PAC 321	217	134	122	165	159	173	129	114	162	161	181	141	152
14	CMVL Baby corn 2 (C)	191	146	115	167	155	170	131	107	163	151	181	152	151
15	HM 4 (C)	194	129	120	157	150	170	140	109	166	158	181	148	153
	L Mean	203	139	124	172	159	175	134	121	163	161	186	151	157
	CV (%)	10	8	11	10	10	5	11	4	6	5	7	7	7
	F (Prob)	0.9	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.6	0.0	0.0
	CD (5%)	33	18	23	28	13	16	24	9	16	15	23	18	7
	CD (1%)	44	24	31	37	17	21	33	12	21	20	31	25	9

Table No. : 24 (Conti...) **Plant Height (cm)**

S. No.	Entry Name	NWPZ					PZ							All India
		KARN	LUDH	PANT	ZONE	COIM	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ABHS4-1	182	212	209	248	213	170	111	102	161	116	179	140	160
2	ABHS4-2	186	197	222	250	213	174	122	123	167	126	182	149	165
3	AH 5021	177	218	206	238	210	184	.	97	.	.	184	.	.
4	AH 7043	183	202	203	193	195	164	.	97	.	.	157	.	.
5	AH 7188	195	203	221	252	218	177	124	112	179	143	202	156	171
6	AH 7204	176	178	219	215	197	166	107	104	168	115	177	140	158
7	AHB 7985	179	177	227	251	208	168	108	106	171	119	180	142	161
8	BAU BCH 18-1	194	192	220	242	212	196	135	127	184	140	208	165	175
9	DBCH 326	186	188	213	239	207	192	126	117	185	126	209	159	171
10	IMHSB-19KB-1	184	208	218	234	211	181	129	134	171	139	181	156	168
11	IMHSB-19KB-2	190	207	208	281	221	203	154	124	201	131	220	172	185
12	LMH 3517	174	185	221	219	200	174	108	111	160	114	168	139	156
13	PAC 321	177	180	216	221	198	179	122	106	161	116	180	144	160
14	CMVL Baby corn 2 (C)	175	177	210	235	199	161	127	102	155	119	164	138	157
15	HM 4 (C)	183	210	229	241	216	177	113	105	161	129	170	142	162
	L Mean	183	196	216	237	208	178	122	111	171	126	184	149	165
	CV (%)	4	11	7	6	8	4	8	12	10	15	6	9	8
	F (Prob)	0.0	0.3	0.8	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.0	0.0	0.0
	CD (5%)	12	36	26	25	13	11	17	22	28	33	18	9	5
	CD (1%)	16	49	36	34	17	15	23	29	38	44	25	12	6

Table No. : 24 (Conti...) **Total baby corn/ha**

S. No.	Entry Name	CWZ					NEPZ							
		AMBI	CHIN	GODH	UDAI	ZONE	BHU	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ABHS4-1	213889	107639	70833	98611	130787	147917	160214	119444	122222	576389	183333	70486	147704
2	ABHS4-2	261806	123611	93056	130134	159491	175000	161806	140972	159028	606944	213889	96528	168924
3	AH 5021	42361	6250	29861	27778	26157	.	.	.	40972	695833	.	72222	.
4	AH 7043	85417	3522	32639	87500	41112	.	129572	.	59722	630556	.	56944	.
5	AH 7188	325694	147222	80556	134028	184491	138889	205556	146528	142361	581944	226389	94097	180208
6	AH 7204	236806	113194	74306	141667	141435	112500	154167	116667	140278	497222	211111	55208	155556
7	AHB 7985	290972	102083	74306	80556	155787	166667	170139	132639	138889	522222	195139	81944	159201
8	BAU BCH 18-1	173611	50694	71528	113889	98611	56250	154167	147917	143750	240278	234028	76389	169965
9	DBCH 326	290972	143056	86111	93056	173380	123611	181944	141667	140972	490278	213889	67708	169618
10	IMHSB-19KB-1	200694	87500	70833	102778	119676	121528	173611	148611	138889	551389	194444	85069	163889
11	IMHSB-19KB-2	236111	98611	79167	94444	137963	144444	190972	166667	147917	608333	223611	90625	182292
12	LMH 3517	246528	77083	70833	147222	131481	102778	162500	158333	152083	481944	197917	70833	167708
13	PAC 321	333333	140972	54861	94444	176389	245139	165972	138889	138194	787500	201389	80208	161111
14	CMVL Baby corn 2 (C)	268750	148611	96528	137500	171296	171528	163889	137500	156250	391667	206250	81250	165972
15	HM 4 (C)	182639	63194	65972	86111	103935	105556	136806	147917	136806	490278	202083	70486	155903
	L Mean	225972	96496	70093	103883	131110	139370	167041	141827	130556	543519	207959	76667	160687
	CV (%)	9	16	**22**	**34**	13	**22**	13	16	14	20	12	**24**	14
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.0	0.0	0.5	0.2	0.0
	CD (5%)	33861	26140	26101	58654	16234	50565	36809	39212	30965	183521	43314	30401	18696
	CD (1%)	45678	35298	35210	79203	21518	68525	49952	53139	41772	247567	58698	41011	24747
		Note: Locations with >20% CV are not considered for calculating the zonal mean												

Table No. : 24 (Conti...) **Total baby corn/ha**

S. No.	Entry Name	NWPZ					PZ									
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ABHS4-1	238519	240625	193590	121111	184406	161111	45139	202083	81944	198958	109375	143750	212963	165856	157637
2	ABHS4-2	240000	245833	191026	133333	188120	168056	88194	195833	73611	250000	95833	179861	239815	175880	173195
3	AH 5021	246667	264583	33333	22778	100926	93056	13515	.	.	184028	.	.	183813	.	.
4	AH 7043	237778	253819	33974	36111	102621	140278	21253	.	.	213542	.	.	207373	.	.
5	AH 7188	230370	224653	197436	127222	185010	166667	88889	215972	113194	182986	137153	172917	214815	181505	182457
6	AH 7204	234815	218403	207051	131111	190992	141667	43056	177778	84028	192708	123958	115278	212037	154144	159348
7	AHB 7985	230370	222222	182692	125556	179539	157639	86806	181944	63194	214583	129167	172222	228704	173935	167497
8	BAU BCH 18-1	222222	210764	164744	50000	145655	131944	64583	122222	98611	247222	75000	104861	206036	128250	136935
9	DBCH 326	220741	283333	187179	132778	180233	160417	92361	177083	94444	204514	104167	134722	211111	157500	168454
10	IMHSB-19KB-1	208889	315625	162179	117222	162764	151389	62500	183333	68750	230903	99306	153472	210185	159537	153371
11	IMHSB-19KB-2	209630	257986	166667	125556	167284	147917	80556	199306	92361	185069	96181	130556	223148	159421	162801
12	LMH 3517	247407	305556	172436	125556	181800	147222	63194	171528	90972	225694	132292	146528	248148	169144	163760
13	PAC 321	237778	281597	217308	123333	192806	181944	109028	249306	122917	236111	169444	156250	250000	201389	183932
14	CMVL Baby corn 2 (C)	231111	276042	171154	125000	175755	166667	90972	202778	83333	225694	136806	148611	213889	173750	171586
15	HM 4 (C)	260000	300694	164744	115556	180100	147917	47917	156944	90972	206250	74306	118056	213889	142222	145788
	L Mean	233086	260116	163034	107481	167867	150926	70337	187393	89103	213218	114076	144391	219775	163778	156965
	CV (%)	9	**25**	8	9	9	10	**21**	13	**28**	20	16	18	14	14	13
	F (Prob)	0.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	0.0	0.0	0.6	0.0	0.0
	CD (5%)	33820	106876	21039	16713	13852	24291	24791	41200	41386	71780	30803	43292	49906	16629	8439
	CD (1%)	45622	144174	28382	22545	18359	32768	33553	55833	56085	96830	41743	58668	67544	21978	11111

Table No. : 24 (Conti...) **Gain in yield of baby corn yield with (%) over CMVL BC2**

S. No.	Entry Name	CWZ										NEPZ													
		AMBI		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB		DHOL		NADI		RANC		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ABHS4-1	-23	10	-35	7	-35	11	-23	10	-29	9	-8	6	-7	10	-2	12	-25	11	74	3	-7	12	-15	11	-6	12
2	ABHS4-2	-10	6	-32	6	-3	3	-4	3	-17	6	4	3	-7	11	10	7	-4	4	44	8	11	3	10	4	3	5
3	AH 5021	-82	15	-95	14	-75	14	-74	15	-85	15	.	.	.	.	.	.	-63	14	114	1	.	.	14	2	.	.
4	AH 7043	-70	14	-95	15	-75	15	-42	13	-80	14	.	.	-23	14	.	.	-64	15	65	6	.	.	-31	14	.	.
5	AH 7188	9	2	-19	2	-24	8	-8	5	-5	2	-5	5	28	1	27	4	-13	7	50	7	15	1	3	5	20	1
6	AH 7204	-19	8	-43	8	13	1	-20	8	-23	8	-34	10	-7	9	-26	13	-44	13	17	12	3	6	-52	15	-1	8
7	AHB 7985	6	3	-45	9	-21	7	-26	12	-16	5	9	2	9	2	1	10	-16	10	30	10	-1	10	-4	7	3	6
8	BAU BCH 18-1	-35	12	-65	13	-12	4	-23	9	-43	12	-71	13	0	6	33	2	-3	3	-35	15	11	2	-11	10	6	3
9	DBCH 326	0	4	-24	4	-13	5	-44	14	-10	4	-33	9	7	4	17	6	-13	8	23	11	6	5	-25	13	6	4
10	IMHSB-19KB-1	-29	11	-49	11	-32	10	-19	7	-36	11	-30	8	4	5	31	3	-10	5	68	5	-8	13	-7	9	-3	10
11	IMHSB-19KB-2	-21	9	-28	5	-15	6	-8	4	-23	7	-19	7	7	3	43	1	2	1	70	4	8	4	26	1	8	2
12	LMH 3517	-18	7	-47	10	-36	12	3	1	-31	10	-38	11	-13	12	17	5	-12	6	16	13	-1	9	-4	8	-6	11
13	PAC 321	11	1	-24	3	-31	9	-26	11	-7	3	31	1	-3	8	4	9	-31	12	99	2	-3	11	13	3	-3	9
14	CMVL Baby corn 2 (C)	0	5	0	1	0	2	0	2	0	1	0	4	0	7	0	11	0	2	0	14	0	8	0	6	0	7
15	HM 4 (C)	-36	13	-63	12	-41	13	-19	6	-47	13	-38	12	-20	13	8	8	-13	8	35	9	1	7	-23	12	-8	13

Gain in yield of baby corn yield with (%) over HM4

S. No.	Entry Name	CWZ										NEPZ													
		AMBI		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB		DHOL		NADI		RANC		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ABHS4-1	20	10	78	7	9	11	-5	10	33	9	48	6	16	10	-9	12	-14	11	29	3	-8	12	11	11	2	12
2	ABHS4-2	41	6	85	6	64	3	19	3	55	6	67	3	16	11	2	7	11	4	7	8	9	3	44	4	12	5
3	AH 5021	-71	15	-86	14	-58	14	-68	15	-73	15	.	.	.	.	.	.	-58	14	59	1	.	.	49	2	.	.
4	AH 7043	-53	14	-87	15	-58	15	-29	13	-62	14	.	.	-5	14	.	.	-58	15	22	6	.	.	-10	14	.	.
5	AH 7188	71	2	121	2	28	8	13	5	77	2	54	5	59	1	18	4	0	7	11	7	13	1	34	5	31	1
6	AH 7204	28	8	56	8	92	1	-1	8	44	8	6	10	16	9	-32	13	-35	13	-13	12	2	6	-37	15	7	8
7	AHB 7985	67	3	50	9	34	7	-9	12	58	5	76	2	36	2	-6	10	-3	10	-3	10	-3	10	25	7	12	6
8	BAU BCH 18-1	2	12	-5	13	49	4	-5	9	7	12	-54	13	24	6	24	2	12	3	-52	15	10	2	16	10	15	3
9	DBCH 326	57	4	106	4	46	5	-30	14	68	4	8	9	33	4	9	6	0	8	-9	11	4	5	-2	13	15	4
10	IMHSB-19KB-1	11	11	40	11	15	10	0	7	19	11	12	8	29	5	22	3	4	5	25	5	-10	13	22	9	5	10
11	IMHSB-19KB-2	23	9	97	5	44	6	14	4	44	7	30	7	33	3	33	1	17	1	26	4	7	4	65	1	17	2
12	LMH 3517	28	7	43	10	9	12	27	1	29	10	0	11	9	12	9	5	2	6	-14	13	-2	9	25	8	2	11
13	PAC 321	74	1	107	3	16	9	-9	11	73	3	110	1	20	8	-3	9	-21	12	47	2	-4	11	48	3	5	9
14	CMVL Baby corn 2 (C)	57	5	172	1	69	2	24	2	87	1	61	4	24	7	-7	11	15	2	-26	14	-1	8	31	6	8	7
15	HM 4 (C)	0	13	0	12	0	13	0	6	0	13	0	12	0	13	0	8	0	8	0	9	0	7	0	12	0	13

Table No. : 24 (Conti...) **Gain in yield of baby corn yield with (%) over CMVL BC2**

S. No.	Entry Name	NWPZ										PZ																All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ABHS4-1	10	3	-17	4	12	5	-4	11	2	4	-2	5	-62	11	-1	8	-10	9	-22	15	-32	11	-25	10	-2	9	-12	10	-11	9
2	ABHS4-2	7	6	-5	2	2	9	10	3	4	3	-12	11	-22	7	-10	10	-39	13	-7	9	-23	9	23	2	8	4	-15	11	-6	7
3	AH 5021	11	2	-21	8	-76	14	-82	15	-45	14	-38	15	-84	15	.	.	.	.	-14	11	.	.	.	.	-34	15	.	.	.	.
4	AH 7043	6	7	-41	15	-82	15	-76	14	-50	15	-21	13	-78	14	.	.	.	.	-17	12	.	.	.	.	-33	14	.	.	.	.
5	AH 7188	4	9	-35	14	11	6	10	2	1	6	-1	4	-11	4	20	2	-2	5	-19	14	-4	4	25	1	0	8	3	3	4	1
6	AH 7204	8	4	-25	9	26	2	4	4	6	2	-16	12	-68	13	-5	9	-5	7	-18	13	-11	5	-31	11	-18	13	-11	9	-7	8
7	AHB 7985	-1	14	-27	12	18	3	2	6	0	7	6	1	-18	5	12	4	-23	12	9	2	-1	3	15	3	10	3	5	1	-2	4
8	BAU BCH 18-1	1	10	-28	13	17	4	-57	13	-15	13	-28	14	-32	8	-11	11	22	1	20	1	-45	12	-34	13	-8	11	-29	13	-22	13
9	DBCH 326	1	11	-14	3	3	8	11	1	2	5	-3	6	-21	6	-1	7	-4	6	-4	8	-28	10	-11	8	6	5	-11	7	-4	5
10	IMHSB-19KB-1	-13	15	-17	5	-13	13	-2	9	-11	12	-10	10	-40	9	10	5	-11	10	-1	7	-17	7	-2	6	1	6	-7	6	-15	11
11	IMHSB-19KB-2	-1	13	-26	11	9	7	3	5	-1	9	0	3	15	1	31	1	19	2	1	5	-23	8	-1	5	-8	12	0	4	-4	6
12	LMH 3517	7	5	-18	6	-4	11	-7	12	-5	11	-7	8	-44	10	-17	12	-22	11	5	3	-11	6	-11	9	11	2	-11	8	-13	10
13	PAC 321	5	8	-20	7	34	1	0	7	8	1	-5	7	8	2	18	3	14	3	2	4	8	1	-2	7	18	1	5	2	1	2
14	CMVL Baby corn 2 (C)	0	12	0	1	0	10	0	8	0	8	0	2	0	3	0	6	0	4	0	6	0	2	0	4	0	7	0	5	0	3
15	HM 4 (C)	13	1	-26	10	-7	12	-4	10	-4	10	-9	9	-63	12	-26	13	-7	8	-13	10	-49	13	-32	12	-4	10	-26	12	-21	12

Gain in yield of baby corn yield with (%) over HM4

S. No.	Entry Name	NWPZ										PZ																All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ABHS4-1	-3	3	11	4	21	5	0	11	7	4	7	5	2	11	33	8	-3	9	-10	15	33	11	10	10	2	9	19	10	13	9
2	ABHS4-2	-6	6	28	2	10	9	14	3	9	3	-3	11	110	7	21	10	-34	13	6	9	50	9	80	2	12	4	15	11	19	7
3	AH 5021	-2	2	6	8	-74	14	-81	15	-43	14	-32	15	-56	15	.	.	.	.	-1	11	.	.	.	.	-31	15	.	.	.	.
4	AH 7043	-6	7	-20	15	-81	15	-75	14	-48	15	-14	13	-41	14	.	.	.	.	-4	12	.	.	.	.	-30	14	.	.	.	.
5	AH 7188	-8	9	-12	14	20	6	15	2	5	6	8	4	139	4	62	2	6	5	-7	14	87	4	83	1	4	8	39	3	32	1
6	AH 7204	-5	4	0	9	37	2	8	4	11	2	-7	12	-14	13	28	9	3	7	-6	13	75	5	2	11	-15	13	20	9	18	8
7	AHB 7985	-13	14	-2	12	27	3	6	6	5	7	16	1	121	5	50	4	-17	12	25	2	94	3	68	3	15	3	42	1	25	4
8	BAU BCH 18-1	-11	10	-4	13	27	4	-55	13	-11	13	-21	14	84	8	20	11	31	1	38	1	8	12	-3	13	-3	11	-5	13	0	13
9	DBCH 326	-11	11	16	3	11	8	15	1	6	5	6	6	113	6	33	7	3	6	10	8	41	10	31	8	10	5	20	7	22	5
10	IMHSB-19KB-1	-23	15	11	5	-6	13	2	9	-7	12	-2	10	61	9	47	5	-4	10	14	7	63	7	44	6	5	6	25	6	8	11
11	IMHSB-19KB-2	-12	13	-1	11	18	7	7	5	3	9	10	3	211	1	77	1	28	2	16	5	52	8	45	5	-4	12	36	4	21	6
12	LMH 3517	-6	5	11	6	3	11	-3	12	0	11	2	8	50	10	11	12	-16	11	21	3	74	6	30	9	15	2	20	8	10	10
13	PAC 321	-7	8	7	7	44	1	4	7	13	1	4	7	193	2	59	3	22	3	17	4	112	1	43	7	23	1	42	2	28	2
14	CMVL Baby corn 2 (C)	-12	12	34	1	8	10	4	8	5	8	10	2	170	3	34	6	8	4	15	6	96	2	46	4	4	7	35	5	27	3
15	HM 4 (C)	0	1	0	10	0	12	0	10	0	10	0	9	0	12	0	13	0	8	0	10	0	13	0	12	0	10	0	12	0	12

Table No. : 24 (Conti...) **Gain in yield of baby corn yield without husk (%) over CMVL BC2**

S. No.	Entry Name	CWZ										NEPZ											
		AMBI		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB		DHOL		NADI		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ABHS4-1	-23	10	-37	8	-30	10	-20	10	-30	9	-10	6	-6	10	-9	12	-36	12	29	6	-10	12	-5	9
2	ABHS4-2	-9	6	-33	7	-7	3	-10	5	-20	7	3	4	-10	12	0	10	-27	9	16	9	15	5	-10	12
3	AH 5021	-81	15	-94	14	-16	5	-79	15	-87	15	.	.	.	.	.	.	-75	15	90	1	28	2	.	.
4	AH 7043	-66	14	-97	15	-28	9	-46	14	-79	14	.	.	-20	14	.	.	-64	14	55	4	-15	13	-22	14
5	AH 7188	12	2	5	1	-24	7	-6	4	9	1	30	1	35	1	18	5	-26	8	55	3	20	3	35	1
6	AH 7204	-18	8	-21	4	-4	2	-14	6	-19	6	-21	7	-9	11	-29	13	-32	11	16	8	-30	15	-9	11
7	AHB 7985	13	1	-29	5	-34	11	-15	7	-6	4	26	2	11	3	4	7	-26	7	14	10	20	4	11	3
8	BAU BCH 18-1	-34	12	-48	11	-25	8	-17	8	-40	12	-65	13	2	6	24	3	-25	6	-55	15	-5	11	2	6
9	DBCH 326	5	4	-8	3	-12	4	-21	11	-1	3	-23	9	27	2	25	2	-19	3	2	11	7	7	27	2
10	IMHSB-19KB-1	-27	11	-41	9	-34	12	-20	9	-34	11	-27	10	4	5	20	4	-22	5	21	7	10	6	4	5
11	IMHSB-19KB-2	-21	9	-42	10	-19	6	2	2	-30	10	-23	8	9	4	40	1	0	1	42	5	32	1	9	4
12	LMH 3517	-17	7	-30	6	-44	14	8	1	-23	8	-45	12	-5	9	14	6	-21	4	-18	14	0	8	-5	10
13	PAC 321	8	3	-49	12	-35	13	-26	13	-18	5	21	3	-4	8	3	9	-46	13	60	2	0	9	-4	8
14	CMVL Baby corn 2 (C)	0	5	0	2	0	1	0	3	0	2	0	5	0	7	0	10	0	2	0	12	0	10	0	7
15	HM 4 (C)	-43	13	-60	13	-44	14	-23	12	-51	13	-37	11	-20	13	3	8	-30	10	-1	13	-19	14	-20	13

Gain in yield of baby corn yield without husk (%) over HM4

S. No.	Entry Name	CWZ										NEPZ											
		AMBI		CHIN		GODH		UDAI		ZONE		BHU		BAHA		BHUB		DHOL		NADI		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ABHS4-1	35	10	55	8	26	10	4	10	43	9	42	6	17	10	-12	12	-9	12	30	6	12	12	19	9
2	ABHS4-2	60	6	65	7	66	3	18	5	62	7	64	4	12	12	-2	10	5	9	17	9	43	5	12	12
3	AH 5021	-66	15	-85	14	51	5	-72	15	-73	15	.	.	.	.	.	.	-64	15	92	1	59	2	.	.
4	AH 7043	-39	14	-94	15	30	9	-29	14	-58	14	.	.	0	14	.	.	-48	14	56	4	6	13	-3	14
5	AH 7188	97	2	159	1	38	7	22	4	120	1	107	1	68	1	15	5	6	8	56	3	49	3	68	1
6	AH 7204	45	8	95	4	73	2	12	6	64	6	25	7	14	11	-31	13	-3	11	17	8	-13	15	14	11
7	AHB 7985	99	1	75	5	19	11	11	7	90	4	99	2	38	3	1	7	6	7	15	10	48	4	38	3
8	BAU BCH 18-1	16	12	29	11	36	8	9	8	21	12	-45	13	26	6	21	3	7	6	-55	15	18	11	26	6
9	DBCH 326	85	4	129	3	58	4	3	11	101	3	22	9	58	2	21	2	16	3	2	11	33	7	58	2
10	IMHSB-19KB-1	28	11	45	9	18	12	4	9	34	11	15	10	30	5	17	4	12	5	23	7	37	6	30	5
11	IMHSB-19KB-2	40	9	43	10	45	6	34	2	41	10	22	8	35	4	36	1	43	1	43	5	63	1	35	4
12	LMH 3517	46	7	74	6	0	14	41	1	57	8	-13	12	18	9	12	6	13	4	-18	14	25	8	18	10
13	PAC 321	91	3	25	12	16	13	-3	13	67	5	92	3	20	8	0	9	-23	13	61	2	24	9	20	8
14	CMVL Baby corn 2 (C)	76	5	147	2	80	1	31	3	103	2	59	5	24	7	-2	10	43	2	1	12	24	10	24	7
15	HM 4 (C)	0	13	0	13	0	14	0	12	0	13	0	11	0	13	0	8	0	10	0	13	0	14	0	13

Table No. : 24 (Conti...) **Gain in yield of baby corn yield without husk (%) over CMVL BC2**

S. No.	Entry Name	NWPZ										PZ																All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ABHS4-1	0	7	-1	6	24	4	-2	9	4	4	1	6	-42	11	0	12	-12	10	-33	15	-31	10	-25	10	-3	9	1	6	-6	8
2	ABHS4-2	1	6	-7	11	3	9	6	3	1	8	-6	10	-7	6	9	10	-7	9	-20	12	-45	12	13	3	15	2	-6	10	-7	9
3	AH 5021	10	3	-8	12	-77	14	-83	15	-35	14	-28	15	-83	15	.	.	.	.	-19	10	.	.	.	.	-24	15	-28	15	.	.
4	AH 7043	4	5	-5	8	-82	15	-79	14	-36	15	-14	13	-80	14	.	.	.	.	-14	8	.	.	.	.	-10	11	-14	13	-42	14
5	AH 7188	-2	10	-11	13	27	3	8	2	4	5	14	3	38	1	70	2	14	3	-16	9	31	2	44	1	9	5	14	3	11	1
6	AH 7204	14	2	-5	7	38	1	0	6	10	1	-18	14	-52	13	101	1	6	7	-28	13	2	4	-26	11	-15	13	-18	14	-4	6
7	AHB 7985	-9	13	-16	15	34	2	1	4	0	10	22	1	19	2	52	5	6	5	24	1	47	1	35	2	11	4	22	1	3	3
8	BAU BCH 18-1	-6	11	-14	14	19	5	-56	13	-17	13	-12	12	-14	7	14	8	32	1	14	2	-41	11	-30	12	-1	8	-12	12	-19	13
9	DBCH 326	-7	12	0	5	5	8	10	1	1	7	-6	11	-15	8	33	6	-20	13	-20	11	-8	6	-16	9	-1	7	-6	11	3	2
10	IMHSB-19KB-1	-16	15	6	3	-7	12	-6	10	-6	11	3	5	-19	9	53	4	6	6	-5	5	-14	8	-9	6	-13	12	3	5	-10	11
11	IMHSB-19KB-2	-16	14	-5	10	-4	11	-1	7	-7	12	9	4	17	3	67	3	24	2	-7	6	-26	9	-7	5	-19	14	9	4	-8	10
12	LMH 3517	-1	9	21	1	7	7	-10	12	4	3	-1	8	-23	10	13	9	-17	12	0	4	19	3	-11	8	24	1	-1	8	-5	7
13	PAC 321	4	4	-5	9	18	6	-1	8	3	6	17	2	-1	5	30	7	8	4	-8	7	-9	7	-11	7	11	3	17	2	-1	5
14	CMVL Baby corn 2 (C)	0	8	0	4	0	10	0	5	0	9	0	7	0	4	0	13	0	8	0	3	0	5	0	4	0	6	0	7	0	4
15	HM 4 (C)	17	1	12	2	-11	13	-7	11	4	2	-3	9	-49	12	6	11	-14	11	-28	14	-53	13	-38	13	-7	10	-3	9	-14	12

Gain in yield of baby corn yield without husk (%) over HM4

S. No.	Entry Name	NWPZ										PZ																All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ABHS4-1	-15	7	-12	6	40	4	6	9	-1	4	4	6	14	11	-5	12	3	10	-8	15	46	10	21	10	4	9	4	6	9	8
2	ABHS4-2	-14	6	-17	11	16	9	15	3	-3	8	-3	10	81	6	3	10	9	9	11	12	17	12	83	3	24	2	-3	10	8	9
3	AH 5021	-6	3	-18	12	-74	14	-82	15	-38	14	-26	15	-66	15	.	.	.	.	12	10	.	.	.	.	-18	15	-26	15	.	.
4	AH 7043	-11	5	-15	8	-80	15	-78	14	-39	15	-12	13	-60	14	.	.	.	.	19	8	.	.	.	.	-3	11	-12	13	-32	14
5	AH 7188	-16	10	-21	13	43	3	16	2	-1	5	17	3	170	1	60	2	33	3	16	9	179	2	134	1	18	5	17	3	28	1
6	AH 7204	-3	2	-15	7	56	1	8	6	6	1	-15	14	-7	13	89	1	23	7	0	13	116	4	20	11	-8	13	-15	14	11	6
7	AHB 7985	-22	13	-25	15	51	2	9	4	-4	10	26	1	133	2	43	5	24	5	72	1	211	1	119	2	19	4	26	1	20	3
8	BAU BCH 18-1	-20	11	-24	14	34	5	-53	13	-20	13	-10	12	69	7	7	8	54	1	58	2	26	11	13	12	6	8	-10	12	-6	13
9	DBCH 326	-21	12	-11	5	18	8	19	1	-3	7	-3	11	66	8	25	6	-6	13	11	11	95	6	36	9	7	7	-3	11	20	2
10	IMHSB-19KB-1	-28	15	-6	3	5	12	1	10	-10	11	6	5	58	9	44	4	23	6	32	5	83	8	47	6	-6	12	6	5	4	11
11	IMHSB-19KB-2	-28	14	-16	10	9	11	7	7	-11	12	12	4	128	3	58	3	44	2	29	6	57	9	52	5	-13	14	12	4	7	10
12	LMH 3517	-15	9	8	1	20	7	-2	12	0	3	2	8	50	10	6	9	-3	12	38	4	152	3	44	8	33	1	2	8	11	7
13	PAC 321	-11	4	-15	9	33	6	6	8	-1	6	20	2	94	5	23	7	26	4	28	7	93	7	45	7	19	3	20	2	15	5
14	CMVL Baby corn 2 (C)	-15	8	-11	4	13	10	8	5	-4	9	3	7	96	4	-6	13	17	8	38	3	112	5	62	4	8	6	3	7	16	4
15	HM 4 (C)	0	1	0	2	0	13	0	11	0	2	0	9	0	12	0	11	0	11	0	14	0	13	0	13	0	10	0	9	0	12

Table No. : 25 Trial No. 588 (BC-I-II-III) NHZ **Baby corn yield Kg/ha**

S. No.	Entry Name	NHZ																All India	
		BAJU		BARA		GOSS		IMPH		KANG		SRIN		VPKA		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	AH5021	1169	5	893	6	514	6	1444	7	1095	7	2539	1	476	7	1235	7	1235	7
2	AH7043	1125	6	799	7	292	7	2611	5	1272	5	2311	5	910	4	1283	6	1283	6
3	DBCH326	1063	7	1997	5	2194	2	2889	4	1411	3	2289	6	987	2	1549	5	1549	5
4	LBCH 119	1224	4	3278	1	2042	3	5867	2	1616	2	2522	2	828	6	1894	1	1894	1
5	LBCH 219	1946	1	2647	2	1292	4	9400	1	1304	4	2475	3	971	3	1868	3	1868	3
6	CMVL BC2 (C)	1763	2	2401	3	2486	1	4522	3	1765	1	2411	4	1126	1	1893	2	1893	2
7	HM 4 (C)	1535	3	2257	4	1139	5	2411	6	1266	6	2064	7	885	5	1605	4	1605	4
	L Mean	1403	.	2031	.	1423	.	4163	.	1390	.	2373	.	883	.	1612	.	1612	.
	CV (%)	6.12	.	10.31	.	**32.63**	.	**36.97**	.	14.89	.	16.33	.	18.17	.	14.43	.	14.43	.
	F (Prob)	0	.	0	.	0	.	0	.	0.03	.	0.75	.	0.01	.	0	.	0	.
	CD (5%)	153	.	376	.	826	.	2738	.	368	.	690	.	285	.	170	.	170	.
	CD (1%)	214	.	531	.	1158	.	3839	.	516	.	967	.	400	.	226	.	226	.

Baby corn yield with husk Kg/ha

S. No.	Entry Name	NHZ																All India	
		BAJU		BARA		GOSS		IMPH		KANG		SRIN		VPKA		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	AH5021	7922	6	3847	6	972	6	4333	7	1899	7	7683	2	2073	7	4066	7	4066	7
2	AH7043	8401	5	3692	7	500	7	4644	6	2017	6	7425	4	3245	6	4213	6	4213	6
3	DBCH326	7873	7	8669	5	4139	2	9556	4	2281	2	6803	6	3553	5	5553	5	5553	5
4	LBCH 119	9403	3	14851	1	3611	3	13767	3	2398	1	7819	1	5015	2	7183	1	7183	1
5	LBCH 219	10270	2	10240	3	2500	4	16911	1	2082	4	6886	5	4126	3	6018	3	6018	3
6	CMVL BC2 (C)	11640	1	11696	2	4611	1	13778	2	2277	3	6417	7	5687	1	7055	2	7055	2
7	HM 4 (C)	8881	4	9940	4	1958	5	7967	5	2059	5	7522	3	3941	4	5717	4	5717	4
	L Mean	9199	.	8943	.	2613	.	10137	.	2145	.	7222	.	3949	.	5652	.	5652	.
	CV (%)	6.1	.	9.7	.	28.2	.	**37.0**	.	11.3	.	15.8	.	19.5	.	13.6	.	13.6	.
	F (Prob)	0.0	.	0.0	.	0.0	.	0.0	.	0.2	.	0.7	.	0.0	.	0.0	.	0.0	.
	CD (5%)	991	.	1564	.	1309	.	6667	.	432	.	2030	.	1372	.	511	.	511	.
	CD (1%)	1389	.	2208	.	1835	.	9347	.	606	.	2846	.	1923	.	678	.	678	.

Note: Locations with >30% CV are not considered for calculating the zonal mean

Table No. : 25 (Conti...) Baby corn Diameter (cm)

S. No.	Entry Name	NHZ								All India
		BAJU	BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH5021	1.6	1.1	1.0	1.3	4.4	1.2	1.3	1.7	1.7
2	AH7043	1.8	1.2	1.0	1.5	4.3	1.5	1.4	1.8	1.8
3	DBCH326	1.8	1.1	1.1	1.3	3.8	1.2	1.3	1.7	1.7
4	LBCH 119	1.8	1.0	1.1	1.3	3.6	1.2	1.2	1.6	1.6
5	LBCH 219	2.0	1.2	0.9	1.6	4.5	1.3	1.3	1.8	1.8
6	CMVL BC2 (C)	1.6	1.1	1.2	1.5	4.0	1.2	1.2	1.7	1.7
7	HM 4 (C)	1.8	1.2	1.0	1.4	4.0	1.5	1.2	1.7	1.7
	L Mean	1.8	1.1	1.0	1.4	4.1	1.3	1.3	1.7	1.7
	CV (%)	7.1	4.1	8.7	14.0	10.6	14.4	7.9	11.4	11.4
	F (Prob)	0.0	0.0	0.0	0.4	0.2	0.2	0.2	0.0	0.0
	CD (5%)	0.2	0.1	0.2	0.4	0.8	0.3	0.2	0.1	0.1
	CD (1%)	0.3	0.1	0.2	0.5	1.1	0.5	0.3	0.2	0.2

Baby corn Length (cm)

S. No.	Entry Name	NHZ								All India
		BAJU	BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH5021	10.0	8.9	7.0	8.8	8.5	10.3	7.5	8.7	8.7
2	AH7043	11.2	8.6	7.1	8.9	8.3	12.1	8.0	9.2	9.2
3	DBCH326	11.3	7.9	7.3	8.5	7.3	11.0	7.2	8.6	8.6
4	LBCH 119	9.5	8.0	7.5	8.4	6.3	11.3	6.7	8.3	8.3
5	LBCH 219	10.1	8.3	6.9	9.7	7.7	11.1	7.3	8.7	8.7
6	CMVL BC2 (C)	9.2	8.3	8.2	11.2	7.6	11.6	6.9	9.0	9.0
7	HM 4 (C)	10.1	8.5	7.0	9.2	7.7	11.6	7.2	8.7	8.7
	L Mean	10.2	8.4	7.3	9.2	7.6	11.3	7.2	8.8	8.8
	CV (%)	6.9	8.1	6.4	12.2	11.6	6.1	3.7	8.4	8.4
	F (Prob)	0.0	0.6	0.1	0.1	0.2	0.1	0.0	0.0	0.0
	CD (5%)	1.3	1.2	0.8	2.0	1.6	1.2	0.5	0.5	0.5
	CD (1%)	1.8	1.7	1.2	2.8	2.2	1.7	0.7	0.6	0.6

Days to 50% Silking

S. No.	Entry Name	NHZ								All India
		BAJU	BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH5021	74.3	63.0	49.7	56.0	58.3	77.3	66.7	63.6	63.6
2	AH7043	70.3	61.0	52.3	59.0	59.3	77.3	65.7	63.6	63.6
3	DBCH326	82.3	60.0	49.3	57.7	59.3	77.7	65.7	64.6	64.6
4	LBCH 119	70.0	52.7	48.0	52.7	51.7	77.3	57.3	58.5	58.5
5	LBCH 219	68.7	54.0	48.7	53.3	54.0	78.0	60.0	59.5	59.5
6	CMVL BC2 (C)	67.7	55.3	47.0	54.3	52.7	79.3	58.0	59.2	59.2
7	HM 4 (C)	73.3	61.6	51.3	57.3	58.3	74.7	64.0	62.9	62.9
	L Mean	72.4	58.1	49.5	55.8	56.2	77.4	62.5	61.7	61.7
	CV (%)	1.2	0.7	3.1	2.9	3.1	4.3	1.8	2.8	2.8
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0
	CD (5%)	1.6	0.7	2.7	2.9	3.1	5.9	2.0	1.1	1.1
	CD (1%)	2.2	1.0	3.8	4.1	4.3	8.3	2.8	1.4	1.4

Days to 50% Anthesis

S. No.	Entry Name	NHZ						All India
		BARA	GOSS	IMPH	KANG	SRIN	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH5021	60.0	47.0	52.3	55.3	73.0	57.5	57.5
2	AH7043	57.0	49.3	56.3	56.7	74.3	58.7	58.7
3	DBCH326	57.0	46.7	55.7	57.0	74.0	58.1	58.1
4	LBCH 119	49.7	45.3	48.3	49.0	73.3	53.1	53.1
5	LBCH 219	52.0	46.3	47.7	51.3	75.3	54.5	54.5
6	CMVL BC2 (C)	51.7	44.0	51.7	50.0	75.7	54.6	54.6
7	HM 4 (C)	59.6	47.3	54.0	56.0	70.7	57.5	57.5
	L Mean	55.1	46.6	52.3	53.6	73.8	56.3	56.3
	CV (%)	0.7	2.8	3.9	3.5	4.3	3.5	3.5
	F (Prob)	0.0	0.0	0.0	0.0	0.6	0.0	0.0
	CD (5%)	0.7	2.3	3.6	3.3	5.6	1.5	1.5
	CD (1%)	1.0	3.3	5.0	4.6	7.9	1.9	1.9

Table No. : 25 (Conti...)		Fodder Weight Kg/ha									Final Plant Stand (000/ha)								
S. No.	Entry Name	NHZ								All India	NHZ								All India
		BAJU	BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE		BAJU	BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH5021	22361	11250	3319	13644	26280	25528	10378	18240	18240	65972	31944	20833	16667	63492	58056	52222	48059	48059
2	AH7043	18750	8861	6528	18622	26226	27556	11467	18580	18580	63889	29167	50000	74444	63492	58333	110000	66554	66554
3	DBCH326	23194	17500	11875	32978	28776	23944	21456	24641	24641	88889	100231	87500	98889	73413	58889	121111	90208	90208
4	LBCH 119	41528	32778	17486	47078	30605	24778	27322	34015	34015	102778	116667	140278	100000	76389	58611	123333	96296	96296
5	LBCH 219	27778	15951	12222	35222	28595	23583	19778	25173	25173	90972	100000	102778	100000	73413	55278	123333	90499	90499
6	CMVL BC2 (C)	25347	21736	14778	30567	28113	25583	17767	24852	24852	102778	133333	118056	100000	63492	57222	131111	97989	97989
7	HM 4 (C)	23958	14792	10458	27278	26760	24611	15344	22124	22124	106250	94444	86111	100000	77381	57778	113333	91531	91531
	L Mean	26131	17663	10952	29341	27908	25083	17644	24012	24012	88790	85833	86508	84286	70153	57738	110635	82882	82882
	CV (%)	7.9	10.7	**38.8**	22.0	8.5	8.1	12.4	13.7	13.7	5.2	9.6	**43.9**	7.6	6.8	5.2	5.6	6.9	6.9
	F (Prob)	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0
	CD (5%)	3687	3386	7567	11494	4218	3594	3878	2181	2181	8181	14843	67599	11416	8490	5365	11081	3818	3818
	CD (1%)	5168	4778	10608	16113	5914	5038	5436	2895	2895	11470	20945	94768	16005	11903	7521	15535	5068	5068

Plant Height (cm)											Total baby corn/ha								
S. No.	Entry Name	NHZ								All India	NHZ								All India
		BAJU	BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE		BAJU	BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH5021	185	160	173	235	211	196	213	196	196	141667	73611	79167	58889	207341	120833	68889	122468	122468
2	AH7043	142	145	121	217	209	207	178	174	174	150694	69444	27778	73333	202381	115556	132222	134060	134060
3	DBCH326	188	149	172	185	212	195	203	186	186	140972	208333	193056	175556	203373	106667	154444	162758	162758
4	LBCH 119	172	144	156	204	203	189	187	179	179	229861	323611	190278	278889	214286	119167	244444	226274	226274
5	LBCH 219	169	153	160	172	216	198	188	179	179	239583	237500	120833	284444	204365	113333	190000	196956	196956
6	CMVL BC2 (C)	160	138	156	147	212	201	180	170	170	220833	248611	227778	208889	197421	113611	247778	205651	205651
7	HM 4 (C)	171	122	133	201	210	210	177	175	175	184722	243171	100000	163333	208333	119444	192222	189127	189127
	L Mean	169.6	144.3	152.8	194.4	210.4	199.6	189.5	180.1	180.1	186905	198125	134127	177619	205357	115516	175714	176114	176114
	CV (%)	5.6	4.3	12.4	14.1	3.7	8.3	6.5	8.7	8.7	4.2	11.2	**31.0**	**33.3**	6.0	8.8	14.4	9.6	9.6
	F (Prob)	0.0	0.0	0.0	0.0	0.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.7	0.0	0.0	0.0
	CD (5%)	16.7	11.0	33.7	48.8	13.8	29.3	21.8	9.6	9.6	13895	39781	74063	105253	21759	18139	45059	12353	12353
	CD (1%)	23.5	15.5	47.2	68.5	19.3	41.1	30.6	12.8	12.8	19480	56135	103831	147558	30504	25430	63170	16432	16432
	Note: Locations with >30% CV are not considered for calculating the zonal mean																		

Table No. : 25 (Conti...) Gain in yield of baby corn yield (%) over CMVL BC2

S. No.	Entry Name	NHZ																All India	
		BAJU		BARA		GOSS		IMPH		KANG		SRIN		VPKA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH5021	-33.65	5	-62.81	6	-79.33	6	-68.06	7	-37.94	7	5.3	1	-57.75	7	-34.79	7	-34.79	7
2	AH7043	-36.17	6	-66.74	7	-88.27	7	-42.26	5	-27.92	5	-4.15	5	-19.23	4	-32.22	6	-32.22	6
3	DBCH326	-39.68	7	-16.83	5	-11.73	2	-36.12	4	-20.07	3	-5.07	6	-12.42	2	-18.17	5	-18.17	5
4	LBCH 119	-30.58	4	36.5	1	-17.88	3	29.73	2	-8.42	2	4.61	2	-26.49	6	0.02	1	0.02	1
5	LBCH 219	10.4	1	10.24	2	-48.04	4	107.86	1	-26.14	4	2.65	3	-13.82	3	-1.31	3	-1.31	3
6	CMVL BC2 (CHECK)	0	2	0	3	0	1	0	3	0	1	0	4	0	1	0	2	0	2
7	HM 4 (Check)	-12.92	3	-6.02	4	-54.19	5	-46.68	6	-28.25	6	-14.4	7	-21.46	5	-15.23	4	-15.23	4

Gain in yield of baby corn yield (%) over HM4

S. No.	Entry Name	NHZ																All India	
		BAJU		BARA		GOSS		IMPH		KANG		SRIN		VPKA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH5021	-23.8	5	-60.43	6	-54.88	6	-40.09	7	-13.5	7	23.01	1	-46.21	7	-23.08	7	-23.08	7
2	AH7043	-26.7	6	-64.61	7	-74.39	7	8.29	5	0.46	5	11.98	5	2.84	4	-20.03	6	-20.03	6
3	DBCH326	-30.72	7	-11.5	5	92.68	2	19.82	4	11.41	3	10.9	6	11.52	2	-3.46	5	-3.46	5
4	LBCH 119	-20.27	4	45.25	1	79.27	3	143.32	2	27.64	2	22.21	2	-6.41	6	17.99	1	17.99	1
5	LBCH 219	26.79	1	17.3	2	13.41	4	289.86	1	2.95	4	19.92	3	9.73	3	16.43	3	16.43	3
6	CMVL BC2 (CHECK)	14.84	2	6.41	3	118.29	1	87.56	3	39.38	1	16.82	4	27.33	1	17.97	2	17.97	2
7	HM 4 (Check)	0	3	0	4	0	5	0	6	0	6	0	7	0	5	0	4	0	4

Gain in yield of baby corn yield with husk (%) over CMVL BC2

S. No.	Entry Name	NHZ																All India	
		BAJU		BARA		GOSS		IMPH		KANG		SRIN		VPKA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH5021	-31.94	6	-67.11	6	-78.92	6	-68.55	7	-16.6	7	19.74	2	-63.55	7	-42.36	7	-42.36	7
2	AH7043	-27.82	5	-68.44	7	-89.16	7	-66.29	6	-11.42	6	15.71	4	-42.93	6	-40.27	6	-40.27	6
3	DBCH326	-32.36	7	-25.88	5	-10.24	2	-30.65	4	0.17	2	6.02	6	-37.53	5	-21.29	5	-21.29	5
4	LBCH 119	-19.22	3	26.98	1	-21.69	3	-0.08	3	5.32	1	21.86	1	-11.8	2	1.82	1	1.82	1
5	LBCH 219	-11.77	2	-12.45	3	-45.78	4	22.74	1	-8.54	4	7.32	5	-27.44	3	-14.7	3	-14.7	3
6	CMVL BC2 (CHECK)	0	1	0	2	0	1	0	2	0	3	0	7	0	1	0	2	0	2
7	HM 4 (Check)	-23.71	4	-15.01	4	-57.53	5	-42.18	5	-9.59	5	17.23	3	-30.7	4	-18.96	4	-18.96	4

Gain in yield of baby corn yield with husk (%) over HM4

S. No.	Entry Name	NHZ																All India	
		BAJU		BARA		GOSS		IMPH		KANG		SRIN		VPKA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	AH5021	-10.79	6	-61.3	6	-50.35	6	-45.61	7	-7.76	7	2.14	2	-47.4	7	-28.87	7	-28.87	7
2	AH7043	-5.4	5	-62.86	7	-74.47	7	-41.7	6	-2.02	6	-1.29	4	-17.65	6	-26.3	6	-26.3	6
3	DBCH326	-11.35	7	-12.78	5	111.35	2	19.94	4	10.8	2	-9.56	6	-9.85	5	-2.87	5	-2.87	5
4	LBCH 119	5.89	3	49.41	1	84.4	3	72.8	3	16.48	1	3.95	1	27.26	2	25.65	1	25.65	1
5	LBCH 219	15.65	2	3.02	3	27.66	4	112.27	1	1.16	4	-8.46	5	4.71	3	5.26	3	5.26	3
6	CMVL BC2 (CHECK)	31.08	1	17.66	2	135.46	1	72.94	2	10.6	3	-14.7	7	44.3	1	23.4	2	23.4	2
7	HM 4 (Check)	0	4	0	4	0	5	0	5	0	5	0	3	0	4	0	4	0	4

Table No. : 26 **Trial No. 683 (SC-I-II-III)** **Ear yield with husk (Kg/ha)**

S. No.	Entry Name	CWZ										NEPZ					
		AMBI		CHIN		GODH		UDAI		ZONE		BHU		BAHA		DHOL	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	BSCH 417006	12361	12	9514	12	6042	11	5260	11	8294	12	11632	14	10903	8	11076	11
2	BSCH 417139	12951	10	12049	10	5972	12	5781	8	9188	11	12813	13	8160	14	10278	12
3	CP Sweet 2	15243	7	13628	8	6215	8	4132	15	9805	9	18924	4	13438	5	12604	9
4	CPSC 301	14757	8	14028	7	6250	7	7552	5	10647	5	16424	7	9826	12	15868	3
5	ISCH 0913	9410	15	6215	15	6597	3	5365	10	6897	15	11354	15	8056	15	7882	15
6	ISCH 1901	13160	9	14306	6	6424	5	6563	6	10113	7	13507	11	10069	11	12743	8
7	NUZI 205	18542	2	18125	1	5972	12	10938	2	13394	2	20139	2	13750	4	16840	1
8	NUZI 260	18229	3	17483	3	6285	6	13507	1	13876	1	20868	1	14444	3	16250	2
9	Super sweet	19757	1	17708	2	7396	1	4635	12	12374	3	19549	3	14479	2	15347	4
10	Sweet Purple	9444	14	8021	14	6111	10	8229	4	7951	14	13229	12	15000	1	12778	7
11	Top Sweet	16597	4	13524	9	5903	14	4340	13	10091	8	14965	8	13368	6	14792	6
14	CMVL SC 1 (C)	15833	6	10885	11	5694	15	8333	3	10187	6	14722	9	9063	13	11389	10
15	Misthi (C)	11736	13	8750	13	6215	8	6389	7	8273	13	17153	5	10382	9	8958	14
	Location Mean	14435	.	12954	.	6294	.	6740	.	10106	.	15727	.	11537	.	12762	.
	CV (%)	14	.	18	.	20	.	21	.	18	.	17	.	**24**	.	16	.
	F (Prob)	0.0	.	0.0	.	1.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.
	CD (5%)	3457	.	3821	.	2056	.	2390	.	1461	.	4357	.	4665	.	3460	.
	CD (1%)	4663	.	5155	.	2773	.	3224	.	1932	.	5878	.	6293	.	4668	.

Ear yield without husk (Kg/ha)

S. No.	Entry Name	CWZ										NEPZ					
		AMBI		CHIN		GODH		UDAI		ZONE		BHU		BAHA		DHOL	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	BSCH 417006	9271	11	6493	12	4028	8	4167	5	5990	12	8368	14	8264	8	8160	10
2	BSCH 417139	9688	10	8455	10	3785	14	4410	7	6584	10	9271	13	6146	14	7465	12
3	CP Sweet 2	11458	7	9010	8	3958	9	3125	1	6888	9	13333	2	9965	6	8542	9
4	CPSC 301	10972	8	9688	6	4201	4	5330	11	7548	6	13056	3	7396	12	11528	4
5	ISCH 0913	6979	15	3889	15	4167	6	4184	6	4805	15	7222	15	6042	15	5243	15
6	ISCH 1901	9965	9	10399	4	4201	4	5278	10	7461	7	10069	11	7500	11	9861	7
7	NUZI 205	14097	2	12882	2	3854	12	8316	14	9787	2	12813	4	10417	4	12083	1
8	NUZI 260	13646	3	12274	3	4132	7	10104	15	10039	1	13646	1	10729	3	12049	2
9	Super sweet	15035	1	13003	1	5139	1	3646	4	9206	3	12813	4	10972	1	11667	3
10	Sweet Purple	7014	14	5729	14	3889	11	6285	12	5729	14	9306	12	10972	1	9028	8
11	Top Sweet	12604	4	9653	7	3854	12	3212	2	7331	8	10660	10	10104	5	10000	6
14	CMVL SC 1 (C)	11944	6	7865	11	3785	14	6771	13	7591	5	10868	9	6736	13	8125	11
15	Misthi (C)	8993	13	5833	13	3924	10	4618	9	5842	13	11285	7	7743	9	6007	14
	Location Mean	10877	.	8947	.	4120	.	5162	.	7277	.	11014	.	8627	.	9120	.
	CV (%)	14	.	20	.	19	.	20	.	19	.	17	.	**25**	.	19	.
	F (Prob)	0.0	.	0.0	.	0.8	.	0.0	.	0.0	.	0.0	.	0.1	.	0.0	.
	CD (5%)	2635	.	3001	.	1324	.	1750	.	1102	.	3200	.	3549	.	2891	.
	CD (1%)	3555	.	4048	.	1786	.	2361	.	1457	.	4317	.	4788	.	3899	.

Note: Locations with >30% CV in CWZ and >20%CV in NWPZ, NEPZ, PZ are not considered for calculating the zonal mean

Table No. : 26 (Conti...) **Ear yield with husk (Kg/ha)**

S. No.	Entry Name	NEPZ								NWPZ									
		NADI		RANC		SABO		ZONE		IARI		KARN		LUDH		PANT		ZONE	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	BSCH 417006	20235	13	16250	13	10094	13	12986	13	14630	10	14635	7	12045	14	12861	6	13179	10
2	BSCH 417139	21973	11	12535	15	16552	2	11875	14	15333	7	13743	10	13894	12	12500	7	13909	9
3	CP Sweet 2	33189	2	20694	4	16270	4	17407	4	13704	13	14931	6	17420	2	13472	4	14865	5
4	CPSC 301	25359	9	16736	11	16543	3	16343	6	15074	9	15170	4	15705	8	15222	1	15334	2
5	ISCH 0913	13335	15	13576	14	9438	15	10938	15	13926	12	14955	5	9054	15	11194	11	11392	15
6	ISCH 1901	28647	7	17083	9	14431	8	14444	10	15185	8	14024	9	14779	10	12389	8	14118	8
7	NUZI 205	28563	8	21944	2	17564	1	19641	2	15815	3	12352	15	17029	4	14639	2	15828	1
8	NUZI 260	32912	3	22743	1	16116	6	19954	1	15593	4	13701	11	16856	5	13361	5	15270	3
9	Super sweet	31368	5	21736	3	14187	9	18877	3	13185	15	15333	3	16843	6	14583	3	14870	4
10	Sweet Purple	28685	6	17535	8	9469	14	14514	9	13519	14	13519	12	13490	13	8389	13	11799	14
11	Top Sweet	39117	1	18194	7	16071	7	15984	7	15407	6	12868	13	17551	1	11500	9	14820	6
14	CMVL SC 1 (C)	23609	10	16597	12	16179	5	14236	12	14037	11	12611	14	13920	11	11361	10	13106	11
15	Misthi (C)	21956	12	17014	10	13320	10	14375	11	15556	5	14229	8	16420	7	6694	14	12890	12
	Location Mean	26735	.	18201	.	14027	.	15563	.	14928	.	14422	.	15179	.	11531	.	13880	.
	CV (%)	**21**	.	14	.	**25**	.	16	.	14	.	**27**	.	10	.	17	.	14	.
	F (Prob)	0.0	.	0.0	.	0.1	.	0.0	.	0.7	.	1.0	.	0.0	.	0.0	.	0.0	.
	CD (5%)	9295	.	4256	.	5793	.	2267	.	3604	.	6527	.	2580	.	3333	.	1761	.
	CD (1%)	12539	.	5741	.	7815	.	3004	.	4861	.	8805	.	3480	.	4496	.	2334	.

Ear yield without husk (Kg/ha)

S. No.	Entry Name	NEPZ						NWPZ											
		NADI		SABO		ZONE		IARI		KARN		LUDH		PANT		ZONE		COIM	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	BSCH 417006	14062	11	7398	13	10196	14	9778	9	12198	7	10513	14	8944	8	9745	11	10765	14
2	BSCH 417139	13906	13	10226	9	10214	13	10259	4	11232	10	12436	11	9194	6	10630	9	13242	7
3	CP Sweet 2	22506	5	13068	3	14794	6	8926	13	12524	3	15385	1	9556	4	11289	5	14010	2
4	CPSC 301	18152	9	13402	2	14245	7	9630	10	12500	4	13782	8	11222	1	11545	2	13106	8
5	ISCH 0913	8802	15	6241	15	7089	15	9593	11	12359	5	7596	15	8028	10	8406	15	8268	15
6	ISCH 1901	21378	6	11792	5	13769	8	10148	5	11572	8	12981	10	9139	7	10756	8	12999	9
7	NUZI 205	19652	7	15290	1	14849	5	10667	3	10166	15	14968	4	10583	3	12073	1	13898	4
8	NUZI 260	23054	3	11407	6	16250	1	10074	6	10846	12	14872	5	9444	5	11463	3	13967	3
9	Super sweet	22740	4	10625	8	15740	3	8667	15	12337	6	14776	6	10917	2	11453	4	12329	11
10	Sweet Purple	18937	8	7158	14	12423	9	8889	14	11099	11	11699	13	5833	13	8807	14	11036	13
11	Top Sweet	26958	1	12914	4	15873	2	9852	7	10211	14	15303	3	8389	9	11181	6	13644	5
14	CMVL SC 1 (C)	17503	10	9140	11	12165	10	9222	12	10306	13	11923	12	8000	11	9715	12	12908	10
15	Misthi (C)	13981	12	9534	10	10424	12	9815	8	11500	9	14679	7	4833	14	9776	10	12209	12
	Location Mean	18632	.	10446	.	12922	.	9827	.	11814	.	13304	.	8309	.	10480	.	12677	.
	CV (%)	20	.	**21**	.	20	.	16	.	**32**	.	11	.	17	.	14	.	9	.
	F (Prob)	0.0	.	0.0	.	0.0	.	0.8	.	1.0	.	0.0	.	0.0	.	0.0	.	0.0	.
	CD (5%)	6192	.	3717	.	2442	.	2564	.	6303	.	2537	.	2400	.	1377	.	1886	.
	CD (1%)	8353	.	5014	.	3236	.	3459	.	8503	.	3423	.	3237	.	1824	.	2544	.

Note: Locations with >30% CV in CWZ and >20%CV in NWPZ, NEPZ, PZ are not considered for calculating the zonal mean

Table No. : 26 (Conti...) **Cob yield with husk (Kg/ha)**

S. No.	Entry Name	PZ																All India	
		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	BSCH 417006	14696	14	12132	12	14965	10	14056	14	13326	7	14326	14	16754	13	20103	12	15045	13	12891	13
2	BSCH 417139	17038	7	13236	8	14944	11	14438	11	12298	11	18507	6	15984	14	19354	14	15725	12	13328	12
3	CP Sweet 2	18211	3	11924	13	15493	7	15888	10	12808	9	19378	5	22825	7	23354	6	17485	6	15329	4
4	CPSC 301	16512	10	12618	11	14816	12	16743	7	11310	13	17639	10	21115	8	21896	8	16581	10	15015	6
5	ISCH 0913	11228	15	8229	14	13701	15	11840	15	10343	14	16111	13	11746	15	14950	15	12269	15	10707	15
6	ISCH 1901	16875	8	13215	9	16785	5	17047	5	12874	8	17431	12	19488	10	24438	3	17269	8	14683	9
7	NUZI 205	18285	2	16882	4	22083	2	18497	2	16380	2	20771	1	26365	2	29167	1	21054	2	18245	2
8	NUZI 260	18317	1	18069	1	25181	1	18005	3	15245	3	19688	3	28155	1	27375	2	21254	1	18400	1
9	Super sweet	16432	11	17222	2	19361	3	18865	1	16962	1	20573	2	24250	3	23771	4	19679	3	17121	3
10	Sweet Purple	14992	13	6840	15	15010	9	14226	13	10075	15	13715	15	18111	11	23458	5	14554	14	12621	14
11	Top Sweet	17394	5	12726	10	14802	13	16799	6	11433	12	17951	8	22972	6	21188	11	16908	9	14891	7
14	CMVL SC 1 (C)	16617	9	15583	5	13847	14	14335	12	13629	6	17882	9	16976	12	21189	10	16257	11	14046	11
15	Misthi (C)	16057	12	14563	6	17340	4	17240	4	14970	4	19399	4	21044	9	21521	9	17767	5	14279	10
	Location Mean	16526	.	13603	.	16691	.	16020	.	13252	.	17954	.	20881	.	22267	.	17149	.	14775	.
	CV (%)	7	.	15	.	11	.	10	.	13	.	11	.	9	.	12	.	11	.	13	.
	F (Prob)	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.
	CD (5%)	1886	.	3488	.	2961	.	2694	.	2791	.	3271	.	3179	.	4646	.	1088	.	750	.
	CD (1%)	2544	.	4705	.	3995	.	3634	.	3765	.	4413	.	4288	.	6267	.	1435	.	987	.

Cob yield without husk (Kg/ha)

S. No.	Entry Name	PZ														All India	
		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	BSCH 417006	9618	7	11311	7	10414	12	8152	11	11507	14	12544	13	15917	10	11278	13	9667	13
2	BSCH 417139	9160	9	11050	8	10904	11	8761	9	13924	6	12385	14	14208	14	11704	12	10139	12
3	CP Sweet 2	8313	13	10980	9	12087	9	8288	10	14375	5	17710	7	16667	7	12804	8	11568	6
4	CPSC 301	8399	12	10932	11	12730	7	7441	13	12917	11	15333	9	14813	11	11959	10	11291	8
5	ISCH 0913	6747	14	10043	15	8583	15	6763	14	11979	13	8766	15	9868	15	8877	15	7596	15
6	ISCH 1901	9271	8	12425	6	13451	5	9480	6	13021	10	15175	10	18396	3	13027	7	11535	7
7	NUZI 205	11795	2	15042	2	13992	3	11122	2	15451	1	20127	2	20917	1	15293	2	13459	2
8	NUZI 260	12208	1	17070	1	14767	2	9260	7	13319	8	21714	1	20500	2	15351	1	13672	1
9	Super sweet	11424	3	14483	3	14817	1	10569	4	14722	4	18567	4	17313	4	14278	3	12924	3
10	Sweet Purple	4490	15	10853	12	10407	13	6651	15	10424	15	12996	12	16979	6	10479	14	9469	14
11	Top Sweet	8556	11	10793	13	13247	6	7787	12	13646	7	18107	6	14757	13	12567	9	11723	5
14	CMVL SC 1 (C)	9972	6	10236	14	10342	14	9116	8	13194	9	13151	11	16126	9	11881	11	10614	11
15	Misthi (C)	8917	10	12764	4	13542	4	10700	3	14861	2	17107	8	17021	5	13390	5	10616	10
	Location Mean	9287	.	12102	.	12264	.	9040	.	13392	.	16118	.	16306	.	12648	.	11139	.
	CV (%)	20	.	10	.	13	.	12	.	13	.	10	.	15	.	13	.	16	.
	F (Prob)	0.0	.	0.0	.	0.0	.	0.0	.	0.1	.	0.0	.	0.0	.	0.0	.	0.0	.
	CD (5%)	3029	.	1951	.	2597	.	1867	.	2888	.	2688	.	4206	.	932	.	667	.
	CD (1%)	4086	.	2632	.	3503	.	2519	.	3896	.	3626	.	5674	.	1228	.	877	.

Note: Locations with >30% CV in CWZ and >20%CV in NWPZ, NEPZ, PZ are not considered for calculating the zonal mean

Table No. : 26 (Conti...) **Days to 50% Anthesis**

S. No.	Entry Name	CWZ					NEPZ						
		AMBI	CHIN	GODH	UDAI	ZONE	BHU	BAHA	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BSCH 417006	47	56	51	51	51	54	55	52	63	42	52	53
2	BSCH 417139	50	57	54	50	53	55	54	53	63	44	51	53
3	CP Sweet 2	49	58	51	55	53	57	59	54	65	45	55	56
4	CPSC 301	46	55	53	51	51	52	55	52	61	43	51	53
5	ISCH 0913	45	54	52	48	50	53	53	51	61	42	48	52
6	ISCH 1901	47	56	54	50	52	51	52	52	61	43	51	52
7	NUZI 205	49	57	53	52	53	55	57	53	62	45	54	54
8	NUZI 260	51	57	51	51	53	56	58	52	64	44	54	55
9	Super sweet	49	57	51	53	52	54	56	53	61	45	52	54
10	Sweet Purple	48	54	52	47	50	51	52	50	64	42	51	52
11	Top Sweet	49	57	54	56	54	57	58	54	64	45	54	55
14	CMVL SC 1 (C)	45	54	53	47	50	50	53	50	62	43	49	51
15	Misthi (C)	50	60	55	52	54	55	59	55	63	44	54	55
	L Mean	48	57	52	52	52	54	56	53	63	44	52	54
	CV (%)	2.2	1.8	7.4	3.9	4.3	2.7	2.1	1.9	3.5	4.9	2.5	3.0
	F (Prob)	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0
	CD (5%)	2	2	7	3	2	2	2	2	4	4	2	1
	CD (1%)	2	2	9	5	2	3	3	2	5	5	3	1

Days to 50% silking

S. No.	Entry Name	CWZ					NEPZ						
		AMBI	CHIN	GODH	UDAI	ZONE	BHU	BAHA	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BSCH 417006	50	57	54	52	54	57	57	55	65	46	57	56
2	BSCH 417139	52	58	58	52	55	58	57	55	67	48	59	57
3	CP Sweet 2	52	60	55	57	56	59	61	55	66	49	61	58
4	CPSC 301	48	57	57	53	54	55	58	54	64	47	57	56
5	ISCH 0913	48	56	56	50	52	56	55	54	64	45	53	54
6	ISCH 1901	50	57	58	52	54	54	54	54	64	46	55	55
7	NUZI 205	52	59	56	54	55	58	59	54	65	48	59	57
8	NUZI 260	53	59	54	53	55	58	60	54	65	47	59	57
9	Super sweet	52	59	54	54	55	58	58	55	64	48	58	57
10	Sweet Purple	51	54	56	49	53	54	54	52	66	45	55	54
11	Top Sweet	52	59	58	58	57	59	60	56	64	48	59	58
14	CMVL SC 1 (C)	49	55	57	49	52	52	55	52	65	46	53	54
15	Misthi (C)	53	60	59	54	57	57	61	56	64	47	59	57
	L Mean	51	58	56	53	55	57	58	55	65	48	58	57
	CV (%)	2.1	1.9	7.0	3.3	4.1	2.3	3.2	2.1	2.2	4.3	2.6	2.8
	F (Prob)	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
	CD (5%)	2	2	7	3	2	2	3	2	2	3	2	1
	CD (1%)	2	3	9	4	2	3	4	3	3	5	3	1

Table No. : 26 (Conti...) **Days to 50% Anthesis**

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BSCH 417006	41	49	49	56	49	48	55	52	49	56	54	47	54	52	52
2	BSCH 417139	42	50	49	57	49	50	56	52	51	61	54	49	57	54	53
3	CP Sweet 2	42	49	52	59	51	52	57	56	50	64	57	50	58	56	54
4	CPSC 301	41	48	48	57	49	49	55	52	51	64	54	48	55	53	52
5	ISCH 0913	40	48	50	56	48	47	53	50	49	53	52	46	54	51	50
6	ISCH 1901	39	46	49	56	48	48	55	53	50	61	54	47	55	53	51
7	NUZI 205	43	48	52	59	50	52	57	54	50	61	56	50	59	55	53
8	NUZI 260	43	49	52	58	51	52	56	54	50	55	56	51	57	54	53
9	Super sweet	41	49	50	56	49	53	57	54	50	62	57	49	58	55	53
10	Sweet Purple	40	47	47	56	48	49	55	53	47	55	52	45	55	51	51
11	Top Sweet	43	49	54	61	52	52	56	55	50	65	57	51	58	56	55
14	CMVL SC 1 (C)	39	48	49	55	48	48	54	49	47	57	52	45	54	51	50
15	Misthi (C)	43	48	52	60	50	52	57	55	51	61	56	50	59	55	54
	L Mean	42	48	51	58	50	51	56	54	50	61	55	49	57	54	53
	CV (%)	2.3	3.9	3.4	2.5	3.1	1.7	2.0	1.9	2.3	4.3	1.9	1.9	2.9	2.6	3.2
	F (Prob)	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	2	3	3	2	1	1	2	2	2	4	2	2	3	1	1
	CD (1%)	2	4	4	3	2	2	2	2	3	6	2	2	4	1	1

Days to 50% Silking

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BSCH 417006	44	52	51	58	51	52	58	54	52	53	56	49	56	54	54
2	BSCH 417139	44	53	50	60	52	53	58	54	54	59	56	51	59	56	55
3	CP Sweet 2	45	52	54	62	53	55	58	59	53	62	58	52	60	57	57
4	CPSC 301	42	51	50	60	51	52	58	54	53	61	56	50	56	55	54
5	ISCH 0913	42	51	52	59	51	51	57	52	52	51	53	48	56	53	53
6	ISCH 1901	42	49	51	59	50	52	58	55	53	59	56	49	57	55	54
7	NUZI 205	44	50	54	62	53	55	58	56	52	58	58	52	61	56	56
8	NUZI 260	46	52	54	61	53	55	58	56	52	53	57	53	59	56	55
9	Super sweet	43	53	52	59	52	55	60	56	52	60	60	51	60	57	55
10	Sweet Purple	43	50	48	59	50	52	57	55	49	52	53	47	56	53	53
11	Top Sweet	44	52	56	64	54	55	58	57	53	63	59	53	60	57	57
14	CMVL SC 1 (C)	43	52	51	57	51	52	56	51	50	55	53	47	55	52	52
15	Misthi (C)	46	51	54	62	53	55	59	57	54	59	58	52	60	57	56
	L Mean	44	51	53	61	52	54	58	56	52	58	57	51	59	56	55
	CV (%)	3.4	3.0	3.4	2.5	3.1	1.7	1.7	2.2	1.9	4.5	1.8	1.9	2.6	2.5	3.0
	F (Prob)	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	3	3	3	3	1	2	2	2	2	4	2	2	3	1	1
	CD (1%)	3	4	4	3	2	2	2	3	2	6	2	2	3	1	1

Table No. : 26 (Conti...) **Ear Height (cm)**

S. No.	Entry Name	CWZ					NEPZ						
		AMBI	CHIN	GODH	UDAI	ZONE	BHU	BAHA	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BSCH 417006	83	71	44	58	64	68	67	83	70	97	67	75
2	BSCH 417139	82	76	43	83	71	82	60	82	73	99	78	79
3	CP Sweet 2	91	68	54	62	69	80	58	78	69	95	73	76
4	CPSC 301	80	56	50	70	64	59	48	77	62	87	72	68
5	ISCH 0913	79	69	53	73	69	72	68	83	70	93	80	78
6	ISCH 1901	83	73	41	67	66	73	64	79	62	96	70	74
7	NUZI 205	103	79	41	80	76	99	72	106	94	110	75	93
8	NUZI 260	109	79	48	88	81	105	84	109	91	105	73	95
9	Super sweet	94	86	63	78	80	83	55	85	73	106	83	81
10	Sweet Purple	82	55	47	75	65	81	56	85	71	94	77	77
11	Top Sweet	89	61	40	70	65	74	48	74	73	113	68	75
14	CMVL SC 1 (C)	81	47	52	62	60	57	39	61	50	90	60	60
15	Misthi (C)	85	88	48	75	74	82	64	91	69	98	66	78
	L Mean	88	71	49	74	71	79	60	85	70	100	72	78
	CV (%)	6	12	23	12	12	15	17	13	11	14	18	15
	F (Prob)	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8	0.0
	CD (5%)	9	14	19	14	7	20	18	19	13	23	21	8
	CD (1%)	12	19	26	20	9	27	24	26	17	31	29	10

Final Plant Stand (000/ha)

S. No.	Entry Name	CWZ					NEPZ						
		AMBI	CHIN	GODH	UDAI	ZONE	BHU	BAHA	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BSCH 417006	62	71	39	49	55	75	63	73	72	999	53	67
2	BSCH 417139	62	65	38	65	58	73	61	70	72	999	56	67
3	CP Sweet 2	64	61	43	56	56	76	61	51	70	999	62	64
4	CPSC 301	62	49	40	51	51	74	60	76	72	999	64	69
5	ISCH 0913	52	59	43	56	52	73	59	63	71	999	45	62
6	ISCH 1901	60	63	41	53	54	70	64	60	70	999	58	64
7	NUZI 205	71	63	41	61	59	76	62	60	71	999	61	66
8	NUZI 260	68	63	41	63	59	78	62	64	73	999	55	66
9	Super sweet	74	66	50	57	62	77	63	69	72	999	57	68
10	Sweet Purple	50	26	36	53	41	76	64	55	73	999	38	61
11	Top Sweet	66	61	38	54	55	75	60	55	72	999	57	64
14	CMVL SC 1 (C)	65	64	35	58	56	75	62	76	72	999	68	71
15	Misthi (C)	57	35	43	54	47	74	63	33	71	999	49	58
	L Mean	62	55	41	56	54	75	62	61	72	999	55	65
	CV (%)	7.3	15.7	23.9	13.5	14.7	4.3	5.4	13.4	2.3	0.0	15.2	8.7
	F (Prob)	0.0	0.0	1.0	0.3	0.0	0.4	0.9	0.0	0.2	.	0.0	0.0
	CD (5%)	8	14	16	13	6	5	6	14	3	0	14	4
	CD (1%)	10	19	22	17	8	7	8	18	4	0	19	5

Table No. : 26 (Conti...) **Ear Height (cm)**

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BSCH 417006	96	108	77	92	93	93	64	70	46	50	81	68	80	69	74
2	BSCH 417139	110	98	85	97	98	94	66	74	43	46	92	80	87	73	79
3	CP Sweet 2	94	108	73	87	91	94	47	58	40	42	86	75	82	66	73
4	CPSC 301	100	98	73	82	88	92	49	58	36	38	79	53	77	60	68
5	ISCH 0913	98	108	70	86	91	92	57	64	45	46	81	67	71	65	74
6	ISCH 1901	99	100	70	90	90	95	66	72	44	51	88	70	89	72	75
7	NUZI 205	125	97	92	119	108	102	60	84	61	49	83	100	93	79	87
8	NUZI 260	119	95	87	114	104	102	75	91	58	46	88	105	110	84	90
9	Super sweet	103	112	88	102	101	101	63	83	46	57	95	75	102	78	83
10	Sweet Purple	98	103	85	101	97	92	44	69	49	42	89	68	83	67	75
11	Top Sweet	95	98	73	90	89	95	50	63	48	46	85	77	84	69	74
14	CMVL SC 1 (C)	84	103	73	77	84	88	53	53	44	45	79	63	81	63	66
15	Misthi (C)	109	118	88	97	103	100	60	79	47	50	82	85	86	74	80
	L Mean	104	105	80	96	96	96	60	72	48	48	87	77	87	72	78
	CV (%)	10	18	8	9	12	3	15	8	15	16	8	14	11	11	13
	F (Prob)	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
	CD (5%)	18	31	10	14	10	5	15	9	12	13	11	17	16	4	3
	CD (1%)	24	42	14	19	13	7	20	13	16	17	15	23	21	6	4

Final Plant Stand (000/ha)

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BSCH 417006	50	75	73	74	68	61	69	68	75	74	62	69	75	69	66
2	BSCH 417139	51	74	76	72	69	61	70	65	77	68	67	73	77	70	66
3	CP Sweet 2	52	77	71	70	68	62	67	65	71	72	64	73	74	68	65
4	CPSC 301	52	76	71	75	69	60	52	64	65	74	66	70	79	66	64
5	ISCH 0913	51	75	70	76	68	59	63	68	68	67	59	70	78	66	63
6	ISCH 1901	50	75	71	75	68	61	55	66	73	64	63	72	76	66	64
7	NUZI 205	44	76	74	71	66	61	58	68	68	70	66	70	78	67	65
8	NUZI 260	54	76	72	64	66	62	63	71	68	70	66	73	76	69	66
9	Super sweet	55	76	72	77	70	61	66	67	78	74	65	70	78	70	68
10	Sweet Purple	51	75	71	39	59	61	30	63	65	62	61	71	76	61	57
11	Top Sweet	54	75	77	65	68	63	62	63	78	68	65	73	76	68	65
14	CMVL SC 1 (C)	51	74	78	73	69	63	68	67	72	72	67	70	75	69	67
15	Misthi (C)	50	77	72	36	59	62	62	69	72	66	62	71	75	68	60
	L Mean	51	75	73	63	65	61	61	66	71	69	64	71	76	67	64
	CV (%)	9.2	2.4	4.6	9.4	6.4	3.2	8.1	6.0	5.8	6.0	7.7	4.3	4.5	5.8	8.4
	F (Prob)	0.4	0.6	0.1	0.0	0.0	0.5	0.0	0.2	0.0	0.0	0.5	0.9	0.9	0.0	0.0
	CD (5%)	8	3	6	10	3	3	8	7	7	7	8	5	6	2	2
	CD (1%)	10	4	8	13	4	4	11	9	9	9	11	7	8	3	2

Table No. : 26 (Conti...) **Plant Height (cm)**

S. No.	Entry Name	CWZ					NEPZ						
		AMBI	CHIN	GODH	UDAI	ZONE	BHU	BAHA	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BSCH 417006	218	203	116	152	172	140	150	182	195	191	163	170
2	BSCH 417139	205	204	113	167	172	151	159	171	195	186	163	171
3	CP Sweet 2	239	205	137	162	186	171	157	180	198	205	160	179
4	CPSC 301	213	200	126	163	176	149	151	170	193	187	158	168
5	ISCH 0913	212	197	145	172	182	148	152	172	197	192	170	172
6	ISCH 1901	220	212	118	167	179	150	142	161	181	190	163	165
7	NUZI 205	263	221	123	193	200	183	167	205	234	237	162	198
8	NUZI 260	263	217	130	195	201	194	174	195	197	209	155	187
9	Super sweet	243	224	134	177	194	157	152	175	201	212	174	179
10	Sweet Purple	214	200	121	180	179	162	154	186	194	209	165	178
11	Top Sweet	239	204	114	160	179	159	165	176	209	218	162	181
14	CMVL SC 1 (C)	216	188	132	160	174	151	137	162	176	187	145	160
15	Misthi (C)	217	215	117	182	182	155	145	173	197	190	155	169
	L Mean	229	209	127	172	184	160	154	178	197	203	161	175
	CV (%)	5.8	5.1	13.7	7.5	7.5	7.9	5.3	4.8	8.5	5.1	9.1	7.0
	F (Prob)	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0
	CD (5%)	22	18	29	22	11	21	14	14	28	17	24	8
	CD (1%)	30	24	39	29	15	28	18	19	38	23	33	11

Table No. : **Toatal Soluble Sugar**

S. No.	Entry Name	CWZ			NEPZ						NWPZ		
		GODH	UDAI	ZONE	BHU	DHOL	NADI	RANC	SABO	ZONE	IARI	KARN	LUDH
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BSCH 417006	13	13	13	15	12	15	15	17	15	16	17	17
2	BSCH 417139	12	11	12	16	14	15	16	19	16	15	17	18
3	CP Sweet 2	12	13	12	14	15	15	16	15	15	15	18	18
4	CPSC 301	12	10	12	16	13	15	14	15	14	16	18	19
5	ISCH 0913	11	13	11	16	11	16	18	16	15	16	17	17
6	ISCH 1901	13	12	13	14	13	15	13	15	14	14	17	18
7	NUZI 205	13	11	13	15	13	15	18	17	16	16	17	18
8	NUZI 260	12	12	12	15	11	15	16	15	14	17	17	18
9	Super sweet	12	11	12	15	13	15	16	16	15	15	17	17
10	Sweet Purple	13	13	13	15	12	15	17	15	15	17	17	18
11	Top Sweet	13	13	13	15	12	15	17	16	15	15	18	18
14	CMVL SC 1 (C)	11	13	11	14	12	15	17	16	15	16	18	18
15	Misthi (C)	13	10	13	16	14	15	14	17	15	17	17	18
	L Mean	12	12	12	15	13	15	16	16	15	16	17	17
	CV (%)	13	.	12	8	12	5	8	10	9	8	6	7
	F (Prob)	0.8	.	0.0	0.4	0.1	0.9	0.0	0.2	0.0	0.3	1.0	0.9
	CD (5%)	3	.	3	2	3	1	2	3	1	2	2	2
	CD (1%)	4	.	4	3	3	2	3	4	1	3	2	3

Table No. : 26 (Conti...) **Plant Height (cm)**

S. No.	Entry Name	NWPZ					PZ									All India
		IARI	KARN	LUDH	PANT	ZONE	COIM	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BSCH 417006	190	187	170	237	196	175	157	189	121	142	181	167	234	171	175
2	BSCH 417139	204	185	177	226	198	175	158	196	117	147	185	180	219	172	177
3	CP Sweet 2	204	203	173	256	209	173	137	183	126	131	182	187	225	168	182
4	CPSC 301	207	187	167	241	200	178	148	167	110	132	162	167	228	161	173
5	ISCH 0913	205	207	162	238	203	175	156	183	121	141	171	177	221	168	178
6	ISCH 1901	194	200	158	244	199	175	164	195	112	148	187	162	242	173	177
7	NUZI 205	239	202	190	293	231	189	157	217	147	156	192	225	256	192	202
8	NUZI 260	230	187	187	286	222	196	171	208	149	145	193	225	260	193	198
9	Super sweet	204	198	180	264	212	187	151	214	128	153	196	180	254	183	189
10	Sweet Purple	199	193	178	257	207	173	136	187	121	136	182	173	225	167	179
11	Top Sweet	210	187	180	259	209	182	141	187	131	138	184	192	237	174	183
14	CMVL SC 1 (C)	195	207	172	230	201	171	152	177	127	130	170	158	228	164	171
15	Misthi (C)	214	210	182	246	213	189	150	204	123	145	177	185	238	176	182
	L Mean	208	197	175	253	208	180	154	195	128	143	184	184	238	176	183
	CV (%)	6.1	11.2	5.3	5.0	7.2	2.7	7.0	5.9	9.8	8.6	6.0	5.1	5.7	6.3	6.9
	F (Prob)	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
	CD (5%)	21	37	16	21	12	8	18	19	21	21	18	16	23	6	4
	CD (1%)	28	50	21	28	16	11	24	26	28	28	25	21	31	8	6

Table No. : **Toatal Soluble Sugar** **Moisture %**

S. No.	Entry Name		PZ								All India	CWZ		NEPZ			PZ		All India
		ZONE	DHAR	HYDE	KARI	KOLH	MAND	PEDD	RAHU	ZONE		CHIN	ZONE	NADI	RANC	ZONE	KARI	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BSCH 417006	17	16	15	14	15	16	15	16	15	15	63	63	74	68	71	37	37	60
2	BSCH 417139	17	14	15	15	15	15	14	16	15	15	66	66	81	67	74	36	36	62
3	CP Sweet 2	17	14	14	15	14	15	14	15	14	15	58	58	77	68	72	37	37	60
4	CPSC 301	17	15	14	14	15	16	14	16	15	15	71	71	73	66	70	35	35	62
5	ISCH 0913	16	14	15	14	15	16	14	18	15	15	57	57	73	67	70	36	36	58
6	ISCH 1901	16	15	14	15	15	16	14	15	15	15	58	58	72	68	70	36	36	58
7	NUZI 205	17	14	15	15	15	15	14	15	15	15	72	72	74	67	71	35	35	62
8	NUZI 260	17	14	15	15	14	16	15	15	15	15	75	75	71	69	70	37	37	63
9	Super sweet	16	13	14	14	14	14	14	16	14	15	74	74	77	66	71	36	36	63
10	Sweet Purple	17	16	14	14	16	17	15	15	15	15	63	63	77	68	72	36	36	61
11	Top Sweet	17	13	15	14	16	15	14	16	15	15	73	73	76	67	72	36	36	63
14	CMVL SC 1 (C)	17	15	13	14	14	15	14	15	14	15	64	64	73	67	70	37	37	60
15	Misthi (C)	17	14	17	16	15	16	15	16	15	15	90	90	78	66	72	35	35	67
	L Mean	17	14	14	14	15	15	14	16	15	15	71	71	76	67	72	36	36	62
	CV (%)	7	4	7	5	6	7	3	8	6	8	14	14	9	3	8	3	3	11
	F (Prob)	0.0	0.0	0.0	0.2	0.3	0.4	0.2	0.5	0.0	0.0	0.0	0.0	0.8	0.9	0.0	0.6	0.0	0.0
	CD (5%)	1	1	2	1	2	2	1	2	1	0	17	17	11	3	7	2	2	6
	CD (1%)	2	1	2	2	2	3	1	3	1	1	23	23	15	4	10	3	3	7

Table No. : 26 (Conti...) **Gain in yield with husk (%) over CMVL SC-1**

S. No.	Entry Name	CWZ										NEPZ													
		AMBI		CHIN		GODH		UDAI		ZONE		BHU		BAHA		DHOL		NADI		RANC		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	BSCH 417006	-22	12	-13	12	6	11	-37	11	-19	12	-21	14	20	8	-3	11	-14	13	-2	13	-38	13	-9	13
2	BSCH 417139	-18	10	11	10	5	12	-31	8	-10	11	-13	13	-10	14	-10	12	-7	11	-24	15	2	2	-17	14
3	CP Sweet 2	-4	7	25	8	9	8	-50	15	-4	9	29	4	48	5	11	9	41	2	25	4	1	4	22	4
4	CPSC 301	-7	8	29	7	10	7	-9	5	5	5	12	7	8	12	39	3	7	9	1	11	2	3	15	6
5	ISCH 0913	-41	15	-43	15	16	3	-36	10	-32	15	-23	15	-11	15	-31	15	-44	15	-18	14	-42	15	-23	15
6	ISCH 1901	-17	9	31	6	13	5	-21	6	-1	7	-8	11	11	11	12	8	21	7	3	9	-11	8	1	10
7	NUZI 205	17	2	67	1	5	12	31	2	31	2	37	2	52	4	48	1	21	8	32	2	9	1	38	2
8	NUZI 260	15	3	61	3	10	6	62	1	36	1	42	1	59	3	43	2	39	3	37	1	0	6	40	1
9	Super sweet	25	1	63	2	30	1	-44	12	21	3	33	3	60	2	35	4	33	5	31	3	-12	9	33	3
10	Sweet Purple	-40	14	-26	14	7	10	-1	4	-22	14	-10	12	66	1	12	7	22	6	6	8	-41	14	2	9
11	Top Sweet	5	4	24	9	4	14	-48	13	-1	8	2	8	48	6	30	6	66	1	10	7	-1	7	12	7
14	CMVL SC 1 (C)	0	6	0	11	0	15	0	3	0	6	0	9	0	13	0	10	0	10	0	12	0	5	0	12
15	Misthi (C)	-26	13	-20	13	9	8	-23	7	-19	13	17	5	15	9	-21	14	-7	12	3	10	-18	10	1	11

Gain in yield with husk (%) over Misthi

S. No.	Entry Name	CWZ										NEPZ													
		AMBI		CHIN		GODH		UDAI		ZONE		BHU		BAHA		DHOL		NADI		RANC		SABO		ZONE	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	BSCH 417006	5	12	9	12	-3	11	-18	11	0	12	-32	14	5	8	24	11	-8	13	-4	13	-24	13	-10	13
2	BSCH 417139	10	10	38	10	-4	12	-10	8	11	11	-25	13	-21	14	15	12	0	11	-26	15	24	2	-17	14
3	CP Sweet 2	30	7	56	8	0	8	-35	15	19	9	10	4	29	5	41	9	51	2	22	4	22	4	21	4
4	CPSC 301	26	8	60	7	1	7	18	5	29	5	-4	7	-5	12	77	3	16	9	-2	11	24	3	14	6
5	ISCH 0913	-20	15	-29	15	6	3	-16	10	-17	15	-34	15	-22	15	-12	15	-39	15	-20	14	-29	15	-24	15
6	ISCH 1901	12	9	63	6	3	5	3	6	22	7	-21	11	-3	11	42	8	30	7	0	9	8	8	0	10
7	NUZI 205	58	2	107	1	-4	12	71	2	62	2	17	2	32	4	88	1	30	8	29	2	32	1	37	2
8	NUZI 260	55	3	100	3	1	6	111	1	68	1	22	1	39	3	81	2	50	3	34	1	21	6	39	1
9	Super sweet	68	1	102	2	19	1	-27	12	50	3	14	3	39	2	71	4	43	5	28	3	7	9	31	3
10	Sweet Purple	-20	14	-8	14	-2	10	29	4	-4	14	-23	12	44	1	43	7	31	6	3	8	-29	14	1	9
11	Top Sweet	41	4	55	9	-5	14	-32	13	22	8	-13	8	29	6	65	6	78	1	7	7	21	7	11	7
12	ADVSW-1 (C)	6	11	74	4	10	2	-32	14	17	10	-3	6	-2	10	6	13	-8	14	18	6	-11	12	7	8
13	ADVSW-2 (C)	37	5	70	5	4	4	-10	9	30	4	-18	10	15	7	69	5	46	4	20	5	-7	11	15	5
14	CMVL SC 1 (C)	35	6	24	11	-8	15	30	3	23	6	-14	9	-13	13	27	10	8	10	-2	12	21	5	-1	12
15	Misthi (C)	0	13	0	13	0	8	0	7	0	13	0	5	0	9	0	14	0	12	0	10	0	10	0	11

Table No. : 26 (Conti...) **Gain in yield with husk (%) over CMVL SC-1**

S. No.	Entry Name	NWPZ										PZ														All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	BSCH 417006	4	10	16	7	-13	14	13	6	1	10	-12	14	-22	12	8	10	-2	14	-2	7	-20	14	-1	13	-5	12	-7	13	-8	13
2	BSCH 417139	9	7	9	10	0	12	10	7	6	9	3	7	-15	8	8	11	1	11	-10	11	4	6	-6	14	-9	14	-3	12	-5	12
3	CP Sweet 2	-2	13	18	6	25	2	19	4	13	5	10	3	-23	13	12	7	11	10	-6	9	8	5	34	7	10	6	8	6	9	4
4	CPSC 301	7	9	20	4	13	8	34	1	17	2	-1	10	-19	11	7	12	17	7	-17	13	-1	10	24	8	3	8	2	10	7	6
5	ISCH 0913	-1	12	19	5	-35	15	-1	11	-13	15	-32	15	-47	14	-1	15	-17	15	-24	14	-10	13	-31	15	-29	15	-25	15	-24	15
6	ISCH 1901	8	8	11	9	6	10	9	8	8	8	2	8	-15	9	21	5	19	5	-6	8	-3	12	15	10	15	3	6	8	5	9
7	NUZI 205	13	3	-2	15	22	4	29	2	21	1	10	2	8	4	59	2	29	2	20	2	16	1	55	2	38	1	30	2	30	2
8	NUZI 260	11	4	9	11	21	5	18	5	17	3	10	1	16	1	82	1	26	3	12	3	10	3	66	1	29	2	31	1	31	1
9	Super sweet	-6	15	22	3	21	6	28	3	13	4	-1	11	11	2	40	3	32	1	24	1	15	2	43	3	12	4	21	3	22	3
10	Sweet Purple	-4	14	7	12	-3	13	-26	13	-10	14	-10	13	-56	15	8	9	-1	13	-26	15	-23	15	7	11	11	5	-10	14	-10	14
11	Top Sweet	10	6	2	13	26	1	1	9	13	6	5	5	-18	10	7	13	17	6	-16	12	0	8	35	6	0	11	4	9	6	7
14	CMVL SC 1 (C)	0	11	0	14	0	11	0	10	0	11	0	9	0	5	0	14	0	12	0	6	0	9	0	12	0	10	0	11	0	11
15	Misthi (C)	11	5	13	8	18	7	-41	14	-2	12	-3	12	-7	6	25	4	20	4	10	4	8	4	24	9	2	9	9	5	2	10

Gain in yield with husk (%) over Misthi

S. No.	Entry Name	NWPZ										PZ														All India	
		IARI		KARN		LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	BSCH 417006	-6	10	3	7	-27	14	92	6	2	10	-8	14	-17	12	-14	10	-18	14	-11	7	-26	14	-20	13	-7	12	-15	13	-10	13
2	BSCH 417139	-1	7	-3	10	-15	12	87	7	8	9	6	7	-9	8	-14	11	-16	11	-18	11	-5	6	-24	14	-10	14	-11	12	-7	12
3	CP Sweet 2	-12	13	5	6	6	2	101	4	15	5	13	3	-18	13	-11	7	-8	10	-14	9	0	5	8	7	9	6	-2	6	7	4
4	CPSC 301	-3	9	7	4	-4	8	127	1	19	2	3	10	-13	11	-15	12	-3	7	-24	13	-9	10	0	8	2	8	-7	10	5	6
5	ISCH 0913	-10	12	5	5	-45	15	67	11	-12	15	-30	15	-43	14	-21	15	-31	15	-31	14	-17	13	-44	15	-31	15	-31	15	-25	15
6	ISCH 1901	-2	8	-1	9	-10	10	85	8	10	8	5	8	-9	9	-3	5	-1	5	-14	8	-10	12	-7	10	14	3	-3	8	3	9
7	NUZI 205	2	3	-13	15	4	4	119	2	23	1	14	2	16	4	27	2	7	2	9	2	7	1	25	2	36	1	19	2	28	2
8	NUZI 260	0	4	-4	11	3	5	100	5	18	3	14	1	24	1	45	1	4	3	2	3	1	3	34	1	27	2	20	1	29	1
9	Super sweet	-15	15	8	3	3	6	118	3	15	4	2	11	18	2	12	3	9	1	13	1	6	2	15	3	10	4	11	3	20	3
10	Sweet Purple	-13	14	-5	12	-18	13	25	13	-8	14	-7	13	-53	15	-13	9	-17	13	-33	15	-29	15	-14	11	9	5	-18	14	-12	14
11	Top Sweet	-1	6	-10	13	7	1	72	9	15	6	8	5	-13	10	-15	13	-3	6	-24	12	-7	8	9	6	-2	11	-5	9	4	7
12	ADVSW-1 (C)	3	2	16	2	-7	9	-23	15	-6	13	7	6	17	3	-11	8	-5	8	-3	5	-10	11	12	5	5	7	1	4	3	8
13	ADVSW-2 (C)	9	1	25	1	6	3	44	12	14	7	12	4	-5	7	-4	6	-7	9	-16	10	-5	7	14	4	-8	13	-2	7	7	5
14	CMVL SC 1 (C)	-10	11	-11	14	-15	11	70	10	2	11	3	9	7	5	-20	14	-17	12	-9	6	-8	9	-19	12	-2	10	-8	11	-2	11
15	Misthi (C)	0	5	0	8	0	7	0	14	0	12	0	12	0	6	0	4	0	4	0	4	0	4	0	9	0	9	0	5	0	10

Table No. : 26 (Conti...) **Gain in yield without husk (%) over CMVL SC-1**

S. No.	Entry Name	CWZ										NEPZ						NEPZ						NWPZ		
		AMBI		CHIN		GODH		UDAI		ZONE		BHU		BAHA		DHOL		NADI		SABO		ZONE		IARI		KARN
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean
1	BSCH 417006	-22	11	-17	12	6	8	-38	11	-21	12	-23	14	23	8	0	10	-20	11	-19	13	-16	14	6	9	18
2	BSCH 417139	-19	10	8	10	0	14	-35	9	-13	10	-15	13	-9	14	-8	12	-21	13	12	9	-16	13	11	4	9
3	CP Sweet 2	-4	7	15	8	5	9	-54	15	-9	9	23	2	48	6	5	9	29	5	43	3	22	6	-3	13	22
4	CPSC 301	-8	8	23	6	11	4	-21	5	-1	6	20	3	10	12	42	4	4	9	47	2	17	7	4	10	21
5	ISCH 0913	-42	15	-51	15	10	6	-38	10	-37	15	-34	15	-10	15	-35	15	-50	15	-32	15	-42	15	4	11	20
6	ISCH 1901	-17	9	32	4	11	4	-22	6	-2	7	-7	11	11	11	21	7	22	6	29	5	13	8	10	5	12
7	NUZI 205	18	2	64	2	2	12	23	2	29	2	18	4	55	4	49	1	12	7	67	1	22	5	16	3	-1
8	NUZI 260	14	3	56	3	9	7	49	1	32	1	26	1	59	3	48	2	32	3	25	6	34	1	9	6	5
9	Super sweet	26	1	65	1	36	1	-46	12	21	3	18	4	63	1	44	3	30	4	16	8	29	3	-6	15	20
10	Sweet Purple	-41	14	-27	14	3	11	-7	4	-25	14	-14	12	63	1	11	8	8	8	-22	14	2	9	-4	14	8
11	Top Sweet	6	4	23	7	2	13	-53	14	-3	8	-2	10	50	5	23	6	54	1	41	4	30	2	7	7	-1
14	CMVL SC 1 (C)	0	6	0	11	0	14	0	3	0	5	0	9	0	13	0	11	0	10	0	11	0	10	0	12	0
15	Misthi (C)	-25	13	-26	13	4	10	-32	7	-23	13	4	7	15	9	-26	14	-20	12	4	10	-14	12	6	8	12

Gain in yield without husk (%) over Misthi

S. No.	Entry Name	CWZ										NEPZ						NEPZ						NWPZ		
		AMBI		CHIN		GODH		UDAI		ZONE		BHU		BAHA		DHOL		NADI		SABO		ZONE		IARI		KARN
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean
1	BSCH 417006	3	11	11	12	3	8	-10	11	3	12	-26	14	7	8	36	10	1	11	-22	13	-2	14	0	9	6
2	BSCH 417139	8	10	45	10	-4	14	-5	9	13	10	-18	13	-21	14	24	12	-1	13	7	9	-2	13	5	4	-2
3	CP Sweet 2	27	7	54	8	1	9	-32	15	18	9	18	2	29	6	42	9	61	5	37	3	42	6	-9	13	9
4	CPSC 301	22	8	66	6	7	4	15	5	29	6	16	3	-4	12	92	4	30	9	41	2	37	7	-2	10	9
5	ISCH 0913	-22	15	-33	15	6	6	-9	10	-18	15	-36	15	-22	15	-13	15	-37	15	-35	15	-32	15	-2	11	7
6	ISCH 1901	11	9	78	4	7	4	14	6	28	7	-11	11	-3	11	64	7	53	6	24	5	32	8	3	5	1
7	NUZI 205	57	2	121	2	-2	12	80	2	68	2	14	4	35	4	101	1	41	7	60	1	42	5	9	3	-12
8	NUZI 260	52	3	110	3	5	7	119	1	72	1	21	1	39	3	101	2	65	3	20	6	56	1	3	6	-6
9	Super sweet	67	1	123	1	31	1	-21	12	58	3	14	4	42	1	94	3	63	4	11	8	51	3	-12	15	7
10	Sweet Purple	-22	14	-2	14	-1	11	36	4	-2	14	-18	12	42	1	50	8	35	8	-25	14	19	9	-9	14	-3
11	Top Sweet	40	4	65	7	-2	13	-30	14	25	8	-6	10	30	5	66	6	93	1	35	4	52	2	0	7	-11
12	ADVSW-1 (C)	3	11	54	9	15	2	-26	13	12	11	1	6	-2	10	5	13	-2	14	-18	12	0	11	10	2	16
13	ADVSW-2 (C)	36	5	72	5	12	3	-2	8	34	4	-1	8	14	7	79	5	72	2	12	7	47	4	13	1	31
14	CMVL SC 1 (C)	33	6	35	11	-4	14	47	3	30	5	-4	9	-13	13	35	11	25	10	-4	11	17	10	-6	12	-10
15	Misthi (C)	0	13	0	13	0	10	0	7	0	13	0	7	0	9	0	14	0	12	0	10	0	12	0	8	0

Table No. : 26 (Conti...) **Gain in yield without husk (%) over CMVL SC-1**

S. No.	Entry Name	KARN	NWPZ						PZ																All India	
			LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	BSCH 417006	7	-12	14	12	8	0	11	-17	14	-4	7	11	7	1	12	-11	11	-13	14	-5	13	-1	10	-5	13	-9	13
2	BSCH 417139	10	4	11	15	6	9	9	3	7	-8	9	8	8	5	11	-4	9	6	6	-6	14	-12	14	-1	12	-4	12
3	CP Sweet 2	3	29	1	19	4	16	5	9	2	-17	13	7	9	17	9	-9	10	9	5	35	7	3	7	8	8	9	6
4	CPSC 301	4	16	8	40	1	19	2	2	8	-16	12	7	11	23	7	-18	13	-2	11	17	9	-8	11	1	10	6	8
5	ISCH 0913	5	-36	15	0	10	-13	15	-36	15	-32	14	-2	15	-17	15	-26	14	-9	13	-33	15	-39	15	-25	15	-28	15
6	ISCH 1901	8	9	10	14	7	11	8	1	9	-7	8	21	6	30	5	4	6	-1	10	15	10	14	3	10	7	9	7
7	NUZI 205	15	26	4	32	3	24	1	8	4	18	2	47	2	35	3	22	2	17	1	53	2	30	1	29	2	27	2
8	NUZI 260	12	25	5	18	5	18	3	8	3	22	1	67	1	43	2	2	7	1	8	65	1	27	2	29	1	29	1
9	Super sweet	6	24	6	36	2	18	4	-4	11	15	3	42	3	43	1	16	4	12	4	41	4	7	4	20	3	22	3
10	Sweet Purple	11	-2	13	-27	13	-9	14	-15	13	-55	15	6	12	1	13	-27	15	-21	15	-1	12	5	6	-12	14	-11	14
11	Top Sweet	14	28	3	5	9	15	6	6	5	-14	11	5	13	28	6	-15	12	3	7	38	6	-8	13	6	9	10	5
14	CMVL SC 1 (C)	13	0	12	0	11	0	12	0	10	0	6	0	14	0	14	0	8	0	9	0	11	0	9	0	11	0	11
15	Misthi (C)	9	23	7	-40	14	1	10	-5	12	-11	10	25	4	31	4	17	3	13	2	30	8	6	5	13	5	0	10

Gain in yield without husk (%) over Misthi

S. No.	Entry Name	KARN	NWPZ						PZ																All India	
			LUDH		PANT		ZONE		COIM		DHAR		HYDE		KARI		KOLH		MAND		PEDD		RAHU		ZONE			
		R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	BSCH 417006	7	-28	14	85	8	0	11	-12	14	8	7	-11	7	-23	12	-24	11	-23	14	-27	13	-6	10	-16	13	-9	13
2	BSCH 417139	10	-15	11	90	6	9	9	8	7	3	9	-13	8	-19	11	-18	9	-6	6	-28	14	-17	14	-13	12	-4	12
3	CP Sweet 2	3	5	1	98	4	15	5	15	2	-7	13	-14	9	-11	9	-23	10	-3	5	4	7	-2	7	-4	8	9	6
4	CPSC 301	4	-6	8	132	1	18	2	7	8	-6	12	-14	11	-6	7	-30	13	-13	11	-10	9	-13	11	-11	10	6	8
5	ISCH 0913	5	-48	15	66	10	-14	15	-32	15	-24	14	-21	15	-37	15	-37	14	-19	13	-49	15	-42	15	-34	15	-28	15
6	ISCH 1901	8	-12	10	89	7	10	8	6	9	4	8	-3	6	-1	5	-11	6	-12	10	-11	10	8	3	-3	7	9	7
7	NUZI 205	15	2	4	119	3	23	1	14	4	32	2	18	2	3	3	4	2	4	1	18	2	23	1	14	2	27	2
8	NUZI 260	12	1	5	95	5	17	3	14	3	37	1	34	1	9	2	-13	7	-10	8	27	1	20	2	15	1	29	1
9	Super sweet	6	1	6	126	2	17	4	1	11	28	3	13	3	9	1	-1	4	-1	4	9	4	2	4	7	3	22	3
10	Sweet Purple	11	-20	13	21	13	-10	14	-10	13	-50	15	-15	12	-23	13	-38	15	-30	15	-24	12	0	6	-22	14	-11	14
11	Top Sweet	14	4	3	74	9	14	6	12	5	-4	11	-15	13	-2	6	-27	12	-8	7	6	6	-13	13	-6	9	10	5
12	ADVSW-1 (C)	2	-9	9	-28	15	-6	13	11	6	16	4	-14	10	-6	8	11	1	-14	12	7	5	-4	8	0	6	0	9
13	ADVSW-2 (C)	1	4	2	47	12	14	7	16	1	13	5	-1	5	-12	10	-10	5	-1	3	16	3	-13	12	1	4	14	4
14	CMVL SC 1 (C)	13	-19	12	66	11	-1	12	6	10	12	6	-20	14	-24	14	-15	8	-11	9	-23	11	-5	9	-11	11	0	11
15	Misthi (C)	9	0	7	0	14	0	10	0	12	0	10	0	4	0	4	0	3	0	2	0	8	0	5	0	5	0	10

Table No. : 27	Trial No. 597 (SC-I-II-III)	Cob yield with husk (Kg/ha)												Days to 50% Anthesis						
S. No.	Entry Name	NHZ										All India		NHZ						All India
		BAJU		IMPH		SRIN		VPKA		ZONE				BAJU	IMPH	SRIN	VPKA	ZONE		
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	Mean	Mean	Mean	Mean		Mean
1	DSCH325	17132	5	15313	8	14639	5	13538	5	15155	7	15155	7	58	55	71	54	60		60
2	FSCH 128	19404	4	21313	3	15028	3	19615	2	18840	2	18840	2	55	49	73	54	58		58
3	LSC 119	16562	7	16432	6	15500	1	13317	7	15453	6	15453	6	59	56	71	55	60		60
4	Nuzi205	22303	1	21578	1	14556	6	20403	1	19710	1	19710	1	60	58	70	55	61		61
5	Punjab Sweetcorn 219	15666	8	16771	5	14694	4	11913	8	14761	8	14761	8	59	54	71	56	60		60
6	CMVL SC 1 (C)	16714	6	18438	4	14556	6	13559	4	15816	5	15816	5	57	52	70	55	58		58
7	Misthi (C)	19678	3	21443	2	14000	9	17885	3	18251	3	18251	3	61	58	73	57	62		62
8	Bajaura Sweet corn (F)	14810	9	16078	7	14333	8	10238	9	13865	9	13865	9	61	57	71	57	62		62
9	Punjab Sweetcorn -1 (F)	21198	2	14656	9	15389	2	13499	6	16186	4	16186	4	70	62	72	65	68		68
	Location Mean	18163	.	18002	.	14744	.	14885	.	16449	.	16449	.	60	56	71	56	61		61
	CV (%)	4.3	.	10.6	.	7.8	.	8.9	.	8.2	.	8.2	.	1.4	4.2	3.5	1.3	2.8		2.8
	F (Prob)	0.0	.	0.0	.	0.8	.	0.0	.	0.0	.	0.0	.	0.0	0.0	0.6	0.0	0.0		0.0
	CD (5%)	1341	.	3293	.	1986	.	2291	.	1099	.	1099	.	1	4	4	1	1		1
	CD (1%)	1847	.	4536	.	2736	.	3156	.	1460	.	1460	.	2	6	6	2	2		2

		Cob yield without husk (Kg/ha)												Days to 50% Silking						
S. No.	Entry Name	NHZ										All India		NHZ						All India
		BAJU		IMPH		SRIN		VPKA		ZONE				BAJU	IMPH	SRIN	VPKA	ZONE		
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	Mean	Mean	Mean	Mean		Mean
1	DSCH325	12052	7	13781	7	13389	2	9657	5	12220	6	12220	6	61	59	75	55	62		62
2	FSCH 128	14501	2	18313	2	13278	4	13981	1	15018	1	15018	1	58	55	77	54	61		61
3	LSC 119	12090	6	14870	5	13778	1	9241	6	12495	5	12495	5	63	61	74	56	63		63
4	Nuzi205	14586	1	17807	3	13278	4	13227	2	14724	2	14724	2	62	60	73	56	63		63
5	Punjab Sweetcorn 219	11279	8	14609	6	13361	3	8690	8	11985	7	11985	7	61	58	74	57	63		63
6	CMVL SC 1 (C)	13065	4	16453	4	13167	7	10528	4	13303	4	13303	4	59	55	75	56	61		61
7	Misthi (C)	14168	3	18573	1	12417	9	13218	3	14594	3	14594	3	63	60	76	58	64		64
8	Bajaura Sweet corn (F)	9626	9	13344	8	13056	8	5792	9	10454	9	10454	9	63	60	74	58	64		64
9	Punjab Sweetcorn -1 (F)	12812	5	12099	9	13222	6	8949	7	11771	8	11771	8	72	64	75	68	70		70
	Location Mean	12687	.	15539	.	13216	.	10365	.	12952	.	12952	.	62	59	75	57	63		63
	CV (%)	4.0	.	7.8	.	9.1	.	9.3	.	7.6	.	7.6	.	1.5	3.4	3.7	1.3	2.8		2.8
	F (Prob)	0.0	.	0.0	.	1.0	.	0.0	.	0.0	.	0.0	.	0.0	0.0	0.8	0.0	0.0		0.0
	CD (5%)	884	.	2106	.	2070	.	1662	.	801	.	801	.	2	3	5	1	1		1
	CD (1%)	1218	.	2902	.	2853	.	2290	.	1065	.	1065	.	2	5	7	2	2		2

Table No. : 27	(Conti...)	Ear Height (cm)						Final Plant Stand (000/ha)					
S. No.	Entry Name	NHZ					All India	NHZ					All India
		BAJU	IMPH	SRIN	VPKA	ZONE		BAJU	IMPH	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	DSCH325	88	95	111	117	103	103	56944	57813	56944	60185	57972	57972
2	FSCH 128	95	88	104	110	99	99	56481	61979	54167	62037	58666	58666
3	LSC 119	95	93	109	107	101	101	58796	66146	54722	60185	59962	59962
4	Nuzi205	103	105	107	125	110	110	61574	68750	55000	62963	62072	62072
5	Punjab Sweetcorn 219	98	85	97	112	98	98	54630	67188	58056	57407	59320	59320
6	CMVL SC 1 (C)	92	82	94	90	90	90	59259	76042	54444	59259	62251	62251
7	Misthi (C)	100	111	121	130	116	116	55556	60938	56944	62500	58984	58984
8	Bajaura Sweet corn (F)	93	90	111	113	102	102	56481	69271	56944	58796	60373	60373
9	Punjab Sweetcorn -1 (F)	137	121	92	137	122	122	55093	61979	56944	58796	58203	58203
	Location Mean	100	97	105	116	104	104	57202	65567	56019	60237	59756	59756
	CV (%)	4.9	9.5	15.0	7.2	9.9	9.9	5.2	12.2	9.2	5.0	8.4	8.4
	F (Prob)	0.0	0.0	0.4	0.0	0.0	0.0	0.2	0.3	1.0	0.4	0.3	0.3
	CD (5%)	9	16	27	14	8	8	5175	13800	8909	5245	4111	4111
	CD (1%)	12	22	38	20	11	11	7130	19014	12275	7226	5463	5463
		Plant Height (cm)						Total Soluble Sugar					
S. No.	Entry Name	NHZ					All India	NHZ					All India
		BAJU	IMPH	SRIN	VPKA	ZONE		BAJU	IMPH	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	DSCH325	190	200	204	225	205	205	17	13	9999	15	15	15
2	FSCH 128	202	193	198	242	209	209	16	15	9999	15	15	15
3	LSC 119	192	198	201	225	204	204	18	16	9999	16	17	17
4	Nuzi205	215	210	198	240	216	216	17	14	9999	16	16	16
5	Punjab Sweetcorn 219	193	190	199	227	202	202	17	13	9999	15	15	15
6	CMVL SC 1 (C)	188	187	203	223	200	200	17	15	9999	15	16	16
7	Misthi (C)	230	216	207	240	223	223	17	14	9999	16	16	16
8	Bajaura Sweet corn (F)	187	195	202	205	197	197	17	.	9999	30	.	.
9	Punjab Sweetcorn -1 (F)	237	226	199	242	226	226	16	13	9999	16	15	15
	Location Mean	204	202	201	230	209	209	17	14	9999	17	16	16
	CV (%)	1.9	4.5	8.5	3.0	5.0	5.0	5.0	6.9	0.0	6.2	6.0	6.0
	F (Prob)	0.0	0.0	1.0	0.0	0.0	0.0	0.3	0.0	.	0.0	0.0	0.0
	CD (5%)	7	16	30	12	9	9	1	2	0	2	.	.
	CD (1%)	9	22	41	16	11	11	2	2	0	3	.	.

Table No. : 27 (Conti...) Gain in yield with husk (%) over CMVL SC 1

S. No.	Entry Name	NHZ										All India	
		BAJU		IMPH		SRIN		VPKA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	DSCH325	2.5	5	-16.95	8	0.57	5	-0.16	5	-4.18	7	-4.18	7
2	FSCH 128	16.09	4	15.59	3	3.24	3	44.67	2	19.12	2	19.12	2
3	LSC 119	-0.91	7	-10.88	6	6.49	1	-1.78	7	-2.3	6	-2.3	6
4	Nuzi205	33.44	1	17.03	1	0	6	50.48	1	24.62	1	24.62	1
5	Punjab Sweetcorn 219	-6.27	8	-9.04	5	0.95	4	-12.14	8	-6.67	8	-6.67	8
6	CMVL SC 1 (C)	0	6	0	4	0	6	0	4	0	5	0	5
7	Misthi (C)	17.73	3	16.3	2	-3.82	9	31.9	3	15.39	3	15.39	3
8	Bajaura Sweet corn (F)	-11.39	9	-12.8	7	-1.53	8	-24.49	9	-12.34	9	-12.34	9
9	Punjab Sweetcorn -1 (F)	26.83	2	-20.51	9	5.73	2	-0.44	6	2.33	4	2.33	4

Gain in yield with husk (%) over Misthi

S. No.	Entry Name	NHZ										All India	
		BAJU		IMPH		SRIN		VPKA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	DSCH325	-12.94	5	-28.59	8	4.56	5	-24.31	5	-16.96	7	-16.96	7
2	FSCH 128	-1.39	4	-0.61	3	7.34	3	9.68	2	3.22	2	3.22	2
3	LSC 119	-15.84	7	-23.37	6	10.71	1	-25.54	7	-15.33	6	-15.33	6
4	Nuzi205	13.34	1	0.63	1	3.97	6	14.08	1	7.99	1	7.99	1
5	Punjab Sweetcorn 219	-20.39	8	-21.79	5	4.96	4	-33.39	8	-19.12	8	-19.12	8
6	CMVL SC 1 (C)	-15.06	6	-14.02	4	3.97	6	-24.19	4	-13.34	5	-13.34	5
7	Misthi (C)	0	3	0	2	0	9	0	3	0	3	0	3
8	Bajaura Sweet corn (F)	-24.74	9	-25.02	7	2.38	8	-42.75	9	-24.03	9	-24.03	9
9	Punjab Sweetcorn -1 (F)	7.73	2	-31.65	9	9.92	2	-24.52	6	-11.32	4	-11.32	4

Gain in yield without husk (%) over CMVL SC 1

S. No.	Entry Name	NHZ										All India	
		BAJU		IMPH		SRIN		VPKA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	DSCH325	-7.75	7	-16.24	7	1.69	2	-8.27	5	-8.14	6	-8.14	6
2	FSCH 128	11	2	11.3	2	0.84	4	32.81	1	12.89	1	12.89	1
3	LSC 119	-7.46	6	-9.62	5	4.64	1	-12.23	6	-6.08	5	-6.08	5
4	Nuzi205	11.64	1	8.23	3	0.84	4	25.64	2	10.68	2	10.68	2
5	Punjab Sweetcorn 219	-13.67	8	-11.21	6	1.48	3	-17.46	8	-9.91	7	-9.91	7
6	CMVL SC 1 (C)	0	4	0	4	0	7	0	4	0	4	0	4
7	Misthi (C)	8.44	3	12.88	1	-5.7	9	25.55	3	9.7	3	9.7	3
8	Bajaura Sweet corn (F)	-26.32	9	-18.9	8	-0.84	8	-44.99	9	-21.41	9	-21.41	9
9	Punjab Sweetcorn -1 (F)	-1.93	5	-26.46	9	0.42	6	-15	7	-11.52	8	-11.52	8

Gain in yield without husk (%) over Misthi

S. No.	Entry Name	NHZ										All India	
		BAJU		IMPH		SRIN		VPKA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	DSCH325	-14.93	7	-25.8	7	7.83	2	-26.94	5	-16.27	6	-16.27	6
2	FSCH 128	2.36	2	-1.4	2	6.94	4	5.78	1	2.91	1	2.91	1
3	LSC 119	-14.67	6	-19.94	5	10.96	1	-30.09	6	-14.38	5	-14.38	5
4	Nuzi205	2.95	1	-4.12	3	6.94	4	0.07	2	0.9	2	0.9	2
5	Punjab Sweetcorn 219	-20.39	8	-21.34	6	7.61	3	-34.26	8	-17.88	7	-17.88	7
6	CMVL SC 1 (C)	-7.78	4	-11.41	4	6.04	7	-20.35	4	-8.84	4	-8.84	4
7	Misthi (C)	0	3	0	1	0	9	0	3	0	3	0	3
8	Bajaura Sweet corn (F)	-32.05	9	-28.15	8	5.15	8	-56.18	9	-28.36	9	-28.36	9
9	Punjab Sweetcorn -1 (F)	-9.57	5	-34.86	9	6.49	6	-32.29	7	-19.34	8	-19.34	8

Table No. : 28 **Trial No. 595 (PC-I-II-III) NHZ** **Yield Kg/ha**

S. No.	Entry Name	NHZ																All India	
		BAJU		BARA		GOSS		IMPH		KANG		SRIN		VPKA		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	APCH3	6001	3	2014	4	794	2	3909	4	2923	3	3650	3	6103	4	4517	5	4517	5
2	LPCH 119	6813	1	1773	5	589	5	3632	5	3296	1	3421	6	6294	3	4691	4	4691	4
3	LPCH 219	6553	2	3736	1	954	1	6575	1	2410	7	3429	5	6055	5	5004	2	5004	2
4	Shalimar Popcorn KDPC-2 (C)	5091	5	2107	3	768	3	5403	3	3029	2	3963	1	6879	2	4873	3	4873	3
5	VL Amber Popcorn (C)	4705	6	1067	6	436	6	1881	6	2433	6	3273	7	4817	6	3422	6	3422	6
6	Bajaura Popcorn (F)	4407	7	790	7	218	7	1782	7	2629	5	3524	4	4039	7	3276	7	3276	7
7	KDPC 2 (F)	5629	4	2877	2	737	4	6039	2	2659	4	3809	2	6908	1	5009	1	5009	1
	Location Mean	5600	.	2052	.	642	.	4175	.	2768	.	3581	.	5871	.	4399	.	4399	.
	CV (%)	6	.	20	.	**42**	.	21	.	9	.	10	.	8	.	12	.	12	.
	F (Prob)	0.0	.	0.0	.	0.1	.	0.0	.	0.0	.	0.3	.	0.0	.	0.0	.	0.0	.
	CD (5%)	603	.	737	.	477	.	1589	.	454	.	639	.	849	.	377	.	377	.
	CD (1%)	845	.	1033	.	669	.	2227	.	636	.	896	.	1191	.	502	.	502	.

Number of Ears

S. No.	Entry Name	NHZ								All India
		BAJU	BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APCH3	50	29	18	41	44	61	58	47	47
2	LPCH 119	48	30	16	35	45	60	67	48	48
3	LPCH 219	49	37	14	43	44	61	49	47	47
4	Shalimar Popcorn KDPC-2 (C)	47	31	14	43	46	63	48	46	46
5	VL Amber Popcorn (C)	46	16	13	26	46	62	50	41	41
6	Bajaura Popcorn (F)	45	19	8	29	43	61	48	41	41
7	KDPC 2 (F)	48	38	12	43	44	59	50	47	47
	Location Mean	47.7	28.6	13.6	37.2	44.6	61.1	52.9	45.3	45.3
	CV (%)	4.4	12.1	**38.2**	19.1	3.5	3.6	7.7	8.6	8.6
	F (Prob)	0.2	0.0	0.4	0.0	0.3	0.6	0.0	0.0	0.0
	CD (5%)	3.7	6.1	9.2	12.6	2.8	3.9	7.2	2.6	2.6
	CD (1%)	5.2	8.6	13.0	17.7	3.9	5.5	10.1	3.4	3.4

Ear Height (cm)

S. No.	Entry Name	NHZ								All India
		BAJU	BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APCH3	115	84	58	100	116	102	132	101	101
2	LPCH 119	100	86	52	107	121	84	128	97	97
3	LPCH 219	103	74	56	96	109	105	122	95	95
4	Shalimar Popcorn KDPC-2 (C)	88	73	56	97	115	94	128	93	93
5	VL Amber Popcorn (C)	92	57	41	91	111	97	130	88	88
6	Bajaura Popcorn (F)	87	62	38	82	103	103	113	84	84
7	KDPC 2 (F)	103	75	53	99	116	100	142	98	98
	Location Mean	98.3	72.9	50.6	96.0	113.0	97.9	127.9	93.8	93.8
	CV (%)	12.9	4.9	12.3	10.4	4.7	7.3	5.9	8.5	8.5
	F (Prob)	0.2	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0
	CD (5%)	22.6	6.3	11.1	17.7	9.4	12.8	13.5	4.9	4.9
	CD (1%)	31.7	8.9	15.5	24.8	13.2	17.9	18.9	6.5	6.5

Note: Locations with >30% CV are not considered for calculating the zonal mean

Table No. : 28 (Conti...)	Final Plant Stand (000/ha)									Moisture %								
S. No.	Entry Name	NHZ								All India	NHZ								All India
		BAJU	BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE		BAJU	BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APCH3	65	83	27	96	67	57	62	72	72	22	30	18	15	30	19	17	22	22
2	LPCH 119	64	90	23	82	67	56	61	70	70	22	29	17	12	29	17	18	20	20
3	LPCH 219	66	91	22	78	65	58	61	70	70	22	32	17	13	29	18	17	21	21
4	Shalimar Popcorn KDPC-2 (C)	64	87	19	91	67	58	58	71	71	22	31	19	11	29	17	18	21	21
5	VL Amber Popcorn (C)	60	77	20	87	68	57	60	68	68	22	32	9	18	30	18	17	21	21
6	Bajaura Popcorn (F)	60	75	21	86	68	57	64	68	68	22	32	11	19	29	18	17	21	21
7	KDPC 2 (F)	61	95	24	84	68	56	60	71	71	22	32	18	15	29	18	16	21	21
	Location Mean	63	85	22	86	68	57	61	70	70	22	31	15	14	29	18	17	21	21
	CV (%)	5.2	8.8	**36.9**	9.5	4.2	2.9	4.9	7.2	7.2	1.5	4.6	14.5	20.9	5.2	7.8	9.3	8.5	8.5
	F (Prob)	0.2	0.1	0.9	0.2	0.8	0.8	0.4	0.3	0.3	0.2	0.3	0.0	0.1	0.9	0.8	0.8	0.3	0.3
	CD (5%)	6	13	15	15	5	3	5	3	3	1	3	4	5	3	2	3	1	1
	CD (1%)	8	19	21	20	7	4	7	4	4	1	4	6	8	4	3	4	1	1

		Number of days to 75% Dry husk									Number of days to 50% Anthesis								
S. No.	Entry Name	NHZ								All India	NHZ								All India
		BAJU	BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE		BAJU	BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APCH3	86	85	97	91	90	117	98	95	95	56	53	52	56	51	69	55	56	56
2	LPCH 119	85	84	96	89	90	114	96	93	93	55	51	51	51	49	72	53	55	55
3	LPCH 219	88	91	98	94	93	115	101	97	97	58	55	52	57	53	68	55	57	57
4	Shalimar Popcorn KDPC-2 (C)	85	86	97	90	88	115	100	94	94	54	51	51	54	48	68	52	54	54
5	VL Amber Popcorn (C)	87	85	97	90	90	116	97	95	95	56	51	51	55	51	71	52	55	55
6	Bajaura Popcorn (F)	87	84	99	88	91	118	96	95	95	58	51	53	54	51	69	55	56	56
7	KDPC 2 (F)	86	87	97	89	89	119	98	95	95	53	51	51	49	49	69	52	54	54
	Location Mean	86	86	97	90	90	116	98	95	95	56	52	52	54	50	69	54	55	55
	CV (%)	0.9	1.9	1.1	3.0	0.8	3.1	1.9	2.1	2.1	2.0	0.7	2.3	3.7	1.1	4.1	3.5	2.9	2.9
	F (Prob)	0.0	0.0	0.2	0.2	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.6	0.1	0.0	0.0
	CD (5%)	1	3	2	5	1	6	3	1	1	2	1	2	4	1	5	3	1	1
	CD (1%)	2	4	3	7	2	9	5	2	2	3	1	3	5	1	7	5	1	1
	Note: Locations with >30% CV are not considered for calculating the zonal mean																		

Table No. : 28 (Conti...) Number of days to 50% Silking

S. No.	Entry Name	NHZ								All India
		BAJU	BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APCH3	59	57	55	58	54	71	56	59	59
2	LPCH 119	57	55	55	58	53	76	53	58	58
3	LPCH 219	60	61	55	59	57	71	57	60	60
4	Shalimar Popcorn KDPC-2 (C)	56	55	55	58	52	72	53	57	57
5	VL Amber Popcorn (C)	58	56	55	59	54	74	53	58	58
6	Bajaura Popcorn (F)	60	57	57	60	55	72	56	59	59
7	KDPC 2 (F)	55	55	56	53	53	73	53	57	57
	Location Mean	58	57	55	58	54	73	55	58	58
	CV (%)	1.9	0.7	2.3	2.3	1.3	4.5	1.2	2.6	2.6
	F (Prob)	0.0	0.0	0.6	0.0	0.0	0.5	0.0	0.0	0.0
	CD (5%)	2	1	2	2	1	6	1	1	1
	CD (1%)	3	1	3	3	2	8	2	1	1

Plant Height (cm)

S. No.	Entry Name	NHZ								All India
		BAJU	BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APCH3	195	155	160	206	229	183	240	195	195
2	LPCH 119	188	173	161	223	241	161	243	199	199
3	LPCH 219	188	164	168	206	217	182	247	196	196
4	Shalimar Popcorn KDPC-2 (C)	192	157	159	217	231	182	240	197	197
5	VL Amber Popcorn (C)	167	124	142	211	221	189	222	182	182
6	Bajaura Popcorn (F)	175	135	123	202	207	175	212	175	175
7	KDPC 2 (F)	200	161	156	222	229	183	245	200	200
	Location Mean	186	153	153	212	225	179	235	192	192
	CV (%)	7.2	3.9	5.9	4.9	5.2	6.1	4.2	5.4	5.4
	F (Prob)	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0
	CD (5%)	24	11	16	19	21	19	17	6	6
	CD (1%)	34	15	22	26	29	27	24	8	8

Final Plant Stand (000/ha)

S. No.	Entry Name	NHZ								All India
		BAJU	BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APCH3	48	46	20	60	46	71	46	53	53
2	LPCH 119	46	48	18	54	46	72	44	52	52
3	LPCH 219	47	48	17	52	46	73	45	52	52
4	Shalimar Popcorn KDPC-2 (C)	47	45	14	57	46	71	43	52	52
5	VL Amber Popcorn (C)	44	48	15	59	47	71	44	52	52
6	Bajaura Popcorn (F)	44	44	19	58	46	70	47	52	52
7	KDPC 2 (F)	45	49	19	54	48	71	43	52	52
	Location Mean	46	47	17	56	46	71	45	52	52
	CV (%)	4.9	8.1	**37.5**	10.2	4.6	2.5	4.7	6.3	6.3
	F (Prob)	0.2	0.6	0.9	0.6	0.9	0.7	0.2	1.0	1.0
	CD (5%)	4	7	12	10	4	3	4	2	2
	CD (1%)	6	9	16	14	5	4	5	3	3

Shelling %

S. No.	Entry Name	NHZ								All India
		BAJU	BARA	GOSS	IMPH	KANG	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APCH3	84	75	76	81	77	83	86	80	80
2	LPCH 119	90	74	77	85	79	82	88	82	82
3	LPCH 219	82	74	76	79	75	83	83	79	79
4	Shalimar Popcorn KDPC-2 (C)	84	69	77	78	76	83	86	79	79
5	VL Amber Popcorn (C)	86	75	73	79	75	83	87	80	80
6	Bajaura Popcorn (F)	75	74	76	80	76	82	88	79	79
7	KDPC 2 (F)	85	80	77	82	76	83	85	81	81
	Location Mean	83	75	76	81	76	83	86	80	80
	CV (%)	0.0	8.6	2.8	6.6	0.9	1.1	0.7	3.9	3.9
	F (Prob)	0.0	0.6	0.2	0.7	0.0	0.5	0.0	0.0	0.0
	CD (5%)	0	11	4	10	1	2	1	2	2
	CD (1%)	0	16	5	13	2	2	1	3	3

Note: Locations with >30% CV are not considered for calculating the zonal mean

Table No. : 28 (Conti...) Gain in yield (%) over Shalimar Popcorn KDPC-2

S. No.	Entry Name	NHZ																All India	
		BAJU		BARA		GOSS		IMPH		KANG		SRIN		VPKA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APCH3	17.87	3	-4.42	4	3.36	2	-27.65	4	-3.49	3	-7.89	3	-11.29	4	-7.3	5	-7.3	5
2	LPCH 119	33.83	1	-15.87	5	-23.35	5	-32.77	5	8.83	1	-13.69	6	-8.5	3	-3.73	4	-3.73	4
3	LPCH 219	28.71	2	77.29	1	24.15	1	21.68	1	-20.43	7	-13.48	5	-11.97	5	2.69	2	2.69	2
4	Shalimar Popcorn KDPC-2 (C)	0	5	0	3	0	3	0	3	0	2	0	1	0	2	0	3	0	3
5	VL Amber Popcorn (C)	-7.58	6	-49.38	6	-43.28	6	-65.19	6	-19.66	6	-17.41	7	-29.98	6	-29.78	6	-29.78	6
6	Bajaura Popcorn (F)	-13.44	7	-62.53	7	-71.57	7	-67.02	7	-13.21	5	-11.07	4	-41.28	7	-32.77	7	-32.77	7
7	KDPC 2 (F)	10.56	4	36.55	2	-4.11	4	11.78	2	-12.19	4	-3.9	2	0.43	1	2.79	1	2.79	1

Gain in yield (%) over VL Amber Popcorn

S. No.	Entry Name	NHZ																All India	
		BAJU		BARA		GOSS		IMPH		KANG		SRIN		VPKA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	APCH3	27.53	3	88.82	4	82.22	2	107.83	4	20.12	3	11.53	3	26.69	4	32.01	5	32.01	5
2	LPCH 119	44.8	1	66.21	5	35.13	5	93.12	5	35.46	1	4.51	6	30.67	3	37.1	4	37.1	4
3	LPCH 219	39.26	2	250.24	1	118.87	1	249.54	1	-0.96	7	4.76	5	25.71	5	46.24	2	46.24	2
4	Shalimar Popcorn KDPC-2 (C)	8.2	5	97.55	3	76.3	3	187.26	3	24.47	2	21.08	1	42.81	2	42.41	3	42.41	3
5	VL Amber Popcorn (C)	0	6	0	6	0	6	0	6	0	6	0	7	0	6	0	6	0	6
6	Bajaura Popcorn (F)	-6.35	7	-25.97	7	-49.87	7	-5.26	7	8.02	5	7.67	4	-16.14	7	-4.26	7	-4.26	7
7	KDPC 2 (F)	19.62	4	169.76	2	69.06	4	221.09	2	9.3	4	16.36	2	43.42	1	46.38	1	46.38	1

Popping % **Popping Volume**

S. No.	Entry Name	NHZ				All India	NHZ				All India
		GOSS	SRIN	VPKA	ZONE		GOSS	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	APCH3	63	9999	95	79	79	443	9999	19	19	19
2	LPCH 119	70	9999	93	82	82	410	9999	16	16	16
3	LPCH 219	67	9999	98	82	82	633	9999	24	24	24
4	Shalimar Popcorn KDPC-2 (C)	66	9999	79	73	73	517	9999	11	11	11
5	VL Amber Popcorn (C)	71	9999	96	83	83	340	9999	23	23	23
6	Bajaura Popcorn (F)	69	9999	98	84	84	473	9999	24	24	24
7	KDPC 2 (F)	71	9999	74	72	72	397	9999	8	8	8
	Location Mean	68.1	9999.0	90.3	79.2	79.2	459.1	9999.0	17.9	17.9	17.9
	CV (%)	4.8	0.0	3.6	4.1	4.1	**33.7**	0.0	22.9	22.9	22.9
	F (Prob)	0.1	.	0.0	0.0	0.0	0.4	.	0.0	0.0	0.0
	CD (5%)	5.8	0.0	5.7	3.9	3.9	275.2	0.0	7.3	7.3	7.3
	CD (1%)	8.1	0.0	8.0	5.2	5.2	385.8	0.0	10.2	10.2	10.2

Note: Locations with >30% CV are not considered for calculating the zonal mean; The data of Popping % and Popping Volume of Srinagar is not available

Table No. : 29	Trial no. 699 (Rainfed-Early Maturity) PZ Yield Kg/ha								Number of Cobs				Ear Height (cm)			
S. No.	Entry Name	PZ						All India		PZ			All India	PZ			All India
		KARI		VAGA		ZONE				KARI	VAGA	ZONE		KARI	VAGA	ZONE	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADH 1619	2290.09	3	7105.42	4	7105.42	4	7105.42	4	54	59	56	56	45	117	81	81
2	ADH 8106	2336.39	1	7221.94	3	7221.94	3	7221.94	3	51	56	54	54	40	110	75	75
3	Bio 605 (C)	2116.56	6	8135.48	2	8135.48	2	8135.48	2	53	56	55	55	50	112	81	81
4	DKC7074 (C)	2149.87	5	6648.48	6	6648.48	6	6648.48	6	57	60	58	58	43	100	72	72
5	Vivek Hybrid 45 (C)	2307.57	2	7027.68	5	7027.68	5	7027.68	5	53	59	56	56	39	82	60	60
6	Vivek Hybrid 51 (C)	2058.47	7	6040.54	7	6040.54	7	6040.54	7	58	58	58	58	43	102	73	73
7	DHM 117 (F)	2200.39	4	8598.44	1	8598.44	1	8598.44	1	52	57	55	55	62	119	91	91
	L Mean	2208.48	.	7254	.	7254	.	7254	.	53.9	57.9	55.9	55.9	46.0	106.1	76.0	76.0
	CV (%)	18.9	.	10.09	.	9.8	.	9.8	.	6.5	5.1	5.5	5.5	12.4	8.4	9.8	9.8
	F (Prob)	0.97	.	0.02	.	0.01	.	0.01	.	0.2	0.7	0.1	0.1	0.0	0.0	0.0	0.0
	CD (5%)	742.47	.	1301.74	.	1264.15	.	1264.15	.	6.2	5.2	3.6	3.6	10.1	15.9	8.9	8.9
	CD (1%)	1040.88	.	1824.95	.	1772.24	.	1772.24	.	8.7	7.3	4.9	4.9	14.2	22.2	12.1	12.1

	Shelling %				Plant Height (cm)				Gain in Yield (%) over Bio 605							
S. No.	Entry Name	PZ			All India	PZ			All India	PZ						All India	
		KARI	VAGA	ZONE		KARI	VAGA	ZONE		KARI		VAGA		ZONE			
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Gain	R	Gain	R	Gain	R	Gain	R
1	ADH 1619	79	78	79	79	95	209	152	152	8.2	3	-12.66	4	-12.66	4	-12.66	4
2	ADH 8106	80	79	79	79	93	212	153	153	10.39	1	-11.23	3	-11.23	3	-11.23	3
3	Bio 605 (C)	79	81	80	80	109	217	163	163	0	6	0	2	0	2	0	2
4	DKC7074 (C)	81	81	81	81	91	200	146	146	1.57	5	-18.28	6	-18.28	6	-18.28	6
5	Vivek Hybrid 45 (C)	80	81	81	81	89	182	136	136	9.02	2	-13.62	5	-13.62	5	-13.62	5
6	Vivek Hybrid 51 (C)	81	81	81	81	99	194	147	147	-2.74	7	-25.75	7	-25.75	7	-25.75	7
7	DHM 117 (F)	78	78	78	78	136	209	172	172	3.96	4	5.69	1	5.69	1	5.69	1
	L Mean	79.7	79.8	79.7	79.7	101.8	203.3	152.6	152.6								
	CV (%)	1.6	1.7	1.7	1.7	7.7	3.3	4.8	4.8								
	F (Prob)	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
	CD (5%)	2.2	2.5	1.6	1.6	14.0	12.1	8.8	8.8								
	CD (1%)	3.1	3.5	2.1	2.1	19.6	17.0	11.9	11.9								

Table No. : 29		(Conti...) Final Plant Stand (000/ha)				Moisture %				Days to 75% Dry husk				Days to 50% Anthesis				Days to 50% Silking			
S. No.	Entry Name	PZ			All India	PZ			All India	PZ			All India	PZ			All India	PZ			All India
		KARI	VAGA	ZONE		KARI	VAGA	ZONE		KARI	VAGA	ZONE		KARI	VAGA	ZONE		KARI	VAGA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADH 1619	51	49	50	50	20.6	15.8	18.2	18.2	101	90	95	95	56	46	51	51	59	50	55	55
2	ADH 8106	49	47	48	48	19.4	15.7	17.6	17.6	101	91	96	96	56	49	53	53	60	52	56	56
3	Bio 605 (C)	50	47	49	49	20.3	16.6	18.4	18.4	100	88	94	94	56	45	50	50	59	48	54	54
4	DKC7074 (C)	52	50	51	51	20.1	15.7	17.9	17.9	101	90	96	96	56	47	52	52	60	50	55	55
5	Vivek Hybrid 45 (C)	51	49	50	50	18.3	16.1	17.2	17.2	90	89	90	90	51	44	48	48	54	48	51	51
6	Vivek Hybrid 51 (C)	54	48	51	51	20.8	15.3	18.1	18.1	87	85	86	86	48	42	45	45	51	45	48	48
7	DHM 117 (F)	51	48	49	49	20.9	16.2	18.6	18.6	103	91	97	97	59	52	55	55	62	55	59	59
	L Mean	51.2	48.3	49.7	49.7	20.1	15.9	18.0	18.0	97.4	89.1	93.3	93.3	54.5	46.4	50.5	50.5	57.7	49.9	53.8	53.8
	CV (%)	2.3	5.2	3.9	3.9	4.6	3.8	4.4	4.4	1.1	2.3	1.7	1.7	1.4	3.2	2.3	2.3	1.5	2.9	2.1	2.1
	F (Prob)	0.0	0.8	0.1	0.1	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	2.1	4.5	2.3	2.3	1.7	1.1	0.9	0.9	1.9	3.6	1.9	1.9	1.4	2.6	1.4	1.4	1.6	2.6	1.4	1.4
	CD (1%)	3.0	6.2	3.1	3.1	2.3	1.5	1.3	1.3	2.7	5.0	2.6	2.6	2.0	3.7	1.9	1.9	2.2	3.6	1.8	1.8

		Gain in Yield (%) over DKC 7074								Gain in Yield (%) over Vivek Hybrid 45								Gain in Yield (%) over Vivek Hybrid 51							
S. No.	Entry Name	PZ						All India		PZ						All India		PZ						All India	
		KARI		VAGA		ZONE				KARI		VAGA		ZONE				KARI		VAGA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADH 1619	6.52	3	6.87	4	6.87	4	6.87	4	-0.76	3	1.11	4	1.11	4	1.11	4	11.25	3	17.63	4	17.63	4	17.63	4
2	ADH 8106	8.68	1	8.63	3	8.63	3	8.63	3	1.25	1	2.76	3	2.76	3	2.76	3	13.5	1	19.56	3	19.56	3	19.56	3
3	Bio 605 (C)	-1.55	6	22.37	2	22.37	2	22.37	2	-8.28	6	15.76	2	15.76	2	15.76	2	2.82	6	34.68	2	34.68	2	34.68	2
4	DKC7074 (C)	0	5	0	6	0	6	0	6	-6.83	5	-5.4	6	-5.4	6	-5.4	6	4.44	5	10.06	6	10.06	6	10.06	6
5	Vivek Hybrid 45 (C)	7.34	2	5.7	5	5.7	5	5.7	5	0	2	0	5	0	5	0	5	12.1	2	16.34	5	16.34	5	16.34	5
6	Vivek Hybrid 51 (C)	-4.25	7	-9.14	7	-9.14	7	-9.14	7	-10.79	7	-14.05	7	-14.05	7	-14.05	7	0	7	0	7	0	7	0	7
7	DHM 117 (F)	2.35	4	29.33	1	29.33	1	29.33	1	-4.64	4	22.35	1	22.35	1	22.35	1	6.89	4	42.35	1	42.35	1	42.35	1
	L Mean																								
	CV (%)																								
	F (Prob)																								
	CD (5%)																								
	CD (1%)																								

Table No. : 30	Trial No. 700 (Rainfed-Early Maturity) CWZ Yield Kg/ha									Number of Cobs				Ear Height (cm)				Final Plant Stand (000/ha)			
S. No.	Entry Name	CWZ GODH Mean	CWZ GODH R	CWZ UDAI Mean	CWZ UDAI R	CWZ ZONE Mean	CWZ ZONE R	All India Mean	All India R	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean
1	ADH 8106	3992	3	3829	3	3992	3	3992	3	31	45	38	38	75	98	87	87	35	52	43	43
2	AH 8127	4208	1	4656	1	4208	1	4208	1	34	52	43	43	75	103	89	89	37	59	48	48
3	Vivek Hybrid 45	3112	5	3799	4	3112	5	3112	5	39	60	50	50	75	85	80	80	45	67	56	56
4	Bio 605 (C)	2569	7	2620	7	2569	7	2569	7	33	53	43	43	63	93	78	78	35	64	50	50
5	DKC7074 (C)	2616	6	4081	2	2616	6	2616	6	35	58	47	47	70	97	83	83	40	66	53	53
6	Vivek Hybrid 51 (C)	3415	4	3165	6	3415	4	3415	4	36	63	50	50	70	90	80	80	45	73	59	59
7	DHM 117 (F)	4193	2	3201	5	4193	2	4193	2	28	44	36	36	70	97	83	83	34	55	44	44
	L Mean	3443.6	.	3621.5	.	3443.6	.	3443.6	.	33.5	53.7	43.6	43.6	71.1	94.8	82.9	82.9	38.8	62.2	50.5	50.5
	CV (%)	15.1	.	13.6	.	14.8	.	14.8	.	8.8	17.7	16.2	16.2	7.6	10.8	9.8	9.8	13.4	14.2	14.3	14.3
	F (Prob)	0.0	.	0.0	.	0.0	.	0.0	.	0.0	0.2	0.0	0.0	0.1	0.5	0.2	0.2	0.1	0.1	0.0	0.0
	CD (5%)	924.8	.	877.8	.	908.7	.	908.7	.	5.2	16.9	8.4	8.4	9.6	18.2	9.7	9.7	9.2	15.7	8.6	8.6
	CD (1%)	1296.5	.	1230.6	.	1274.0	.	1274.0	.	7.3	23.8	11.4	11.4	13.4	25.5	13.2	13.2	12.9	22.0	11.7	11.7

		Moisture %				Days to 75% Dry husk				Days to 50% Anthesis				Days to 50% Silking				Plant Height (cm)			
S. No.	Entry Name	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean
1	ADH 8106	16.2	23.0	19.6	19.6	88	91	90	90	51	50	50	50	54	52	53	53	178	185	181	181
2	AH 8127	14.9	22.9	18.9	18.9	88	91	90	90	51	49	50	50	53	51	52	52	178	207	192	192
3	Vivek Hybrid 45	15.6	19.3	17.5	17.5	90	88	89	89	53	45	49	49	56	47	51	51	180	170	175	175
4	Bio 605 (C)	15.5	22.0	18.8	18.8	89	89	89	89	52	50	51	51	55	51	53	53	170	187	178	178
5	DKC7074 (C)	16.2	21.8	19.0	19.0	91	88	89	89	52	49	51	51	56	51	53	53	175	188	182	182
6	Vivek Hybrid 51 (C)	17.2	19.2	18.2	18.2	90	86	88	88	50	45	47	47	52	47	50	50	165	182	173	173
7	DHM 117 (F)	15.8	22.4	19.1	19.1	88	91	90	90	50	53	51	51	52	55	53	53	180	168	174	174
	L Mean	15.9	21.5	18.7	18.7	88.9	89.2	89.1	89.1	51.0	48.9	49.9	49.9	53.7	50.6	52.1	52.1	175.0	183.8	179.4	179.4
	CV (%)	0.0	0.0	0.0	0.0	1.7	1.0	1.3	1.3	3.9	1.5	2.9	2.9	3.7	1.4	2.9	2.9	4.4	13.6	9.9	9.9
	F (Prob)	0.0	0.0	0.2	0.2	0.3	0.0	0.2	0.2	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.6	0.6	0.6
	CD (5%)	0.0	0.0	1.4	1.4	2.6	1.5	1.4	1.4	3.5	1.3	1.7	1.7	3.5	1.3	1.8	1.8	13.6	44.6	21.3	21.3
	CD (1%)	0.0	0.0	1.9	1.9	3.7	2.1	1.9	1.9	5.0	1.8	2.4	2.4	4.9	1.8	2.4	2.4	19.0	62.5	28.8	28.8

Table No. :	(Conti...) Shelling %				Gain in Yield (%) over Bio 605								Gain in Yield (%) over DKC 7074								Gain in Yield (%) over V Hybrid 51							
S. No.	Entry Name	CWZ			All India	CWZ						All India		CWZ						All India		CWZ						All India	
		GODH	UDAI	ZONE		GODH		UDAI		ZONE				GODH		UDAI		ZONE				GODH		UDAI		ZONE			
		Mean	Mean	Mean	Mean	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADH 8106	88	79	84	84	55.37	3	46.18	3	55.37	3	55.37	3	52.59	3	-6.17	3	52.59	3	52.59	3	16.9	3	21	3	16.9	3	16.9	3
2	AH 8127	73	78	75	75	63.79	1	77.73	1	63.79	1	63.79	1	60.86	1	14.07	1	60.86	1	60.86	1	23.24	1	47.12	1	23.24	1	23.24	1
3	Vivek Hybrid 45	88	78	83	83	21.1	5	45.01	4	21.1	5	21.1	5	18.94	5	-6.92	4	18.94	5	18.94	5	-8.88	5	20.04	4	-8.88	5	-8.88	5
4	Bio 605 (C)	84	77	81	81	0	7	0	7	0	7	0	7	-1.79	7	-35.81	7	-1.79	7	-1.79	7	-24.76	7	-17.22	7	-24.76	7	-24.76	7
5	DKC7074 (C)	74	77	76	76	1.82	6	55.8	2	1.82	6	1.82	6	0	6	0	2	0	6	0	6	-23.39	6	28.97	2	-23.39	6	-23.39	6
6	Vivek Hybrid 51 (C)	89	76	82	82	32.91	4	20.81	6	32.91	4	32.91	4	30.53	4	-22.46	6	30.53	4	30.53	4	0	4	0	6	0	4	0	4
7	DHM 117 (F)	83	76	80	80	63.19	2	22.17	5	63.19	2	63.19	2	60.27	2	-21.58	5	60.27	2	60.27	2	22.78	2	1.13	5	22.78	2	22.78	2
	L Mean	82.8	77.3	80.1	80.1																								
	CV (%)	0.0	0.0	0.0	0.0																								
	F (Prob)	0.0	0.0	0.0	0.0																								
	CD (5%)	0.0	0.0	0.0	0.0																								
	CD (1%)	0.0	0.0	0.0	0.0																								

Table No. : 31 Trial No. 703 (Rainfed-Medium Maturity) PZ
Yield Kg/ha

S. No.	Entry Name	PZ KARI Mean	PZ KARI R	PZ VAGA Mean	PZ VAGA R	PZ ZONE Mean	PZ ZONE R	All India Mean	All India R
1	OMH14-27	3016	3	7130	4	7130	4	7130	4
2	Bio 9544 (C)	3193	2	6580	7	6580	7	6580	7
3	CMH 08 292 (C)	3296	1	6696	6	6696	6	6696	6
4	DHM 121 (C)	2714	5	7248	2	7248	2	7248	2
5	DHM117 (F)	1966	7	7115	5	7115	5	7115	5
6	NK 6240 (F)	2906	4	7217	3	7217	3	7217	3
7	CMH 08 287 (F)	2689	6	7930	1	7930	1	7930	1
	Location Mean	2825.6	.	7131.2	.	7131.2	.	7131.2	.
	CV (%)	9.7	.	10.2	.	9.8	.	9.8	.
	F (Prob)	0.0	.	0.4	.	0.4	.	0.4	.
	CD (5%)	485.5	.	1295.5	.	1245.3	.	1245.3	.
	CD (1%)	680.6	.	1816.2	.	1745.9	.	1745.9	.

Number of Cobs

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	OMH14-27	54	58	56	56
2	Bio 9544 (C)	56	57	57	57
3	CMH 08 292 (C)	56	59	57	57
4	DHM 121 (C)	51	59	55	55
5	DHM117 (F)	31	58	44	44
6	NK 6240 (F)	58	59	59	59
7	CMH 08 287 (F)	52	59	56	56
	Location Mean	51.0	58.5	54.7	54.7
	CV (%)	5.7	2.3	4.1	4.1
	F (Prob)	0.0	0.5	0.0	0.0
	CD (5%)	5.1	2.4	2.7	2.7
	CD (1%)	7.2	3.4	3.6	3.6

Ear Height (cm)

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	OMH14-27	53	107	80	80
2	Bio 9544 (C)	56	106	81	81
3	CMH 08 292 (C)	63	123	93	93
4	DHM 121 (C)	51	106	79	79
5	DHM117 (F)	61	109	85	85
6	NK 6240 (F)	50	115	83	83
7	CMH 08 287 (F)	60	121	91	91
	Location Mean	56.3	112.3	84.3	84.3
	CV (%)	8.8	4.7	6.1	6.1
	F (Prob)	0.0	0.0	0.0	0.0
	CD (5%)	8.8	9.5	6.1	6.1
	CD (1%)	12.4	13.3	8.3	8.3

Final Plant Stand (000/ha)

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	OMH14-27	49	48	49	49
2	Bio 9544 (C)	52	48	50	50
3	CMH 08 292 (C)	50	49	50	50
4	DHM 121 (C)	48	49	49	49
5	DHM117 (F)	29	48	39	39
6	NK 6240 (F)	54	49	52	52
7	CMH 08 287 (F)	49	49	49	49
	Location Mean	47.6	48.7	48.2	48.2
	CV (%)	4.1	2.3	3.3	3.3
	F (Prob)	0.0	0.5	0.0	0.0
	CD (5%)	3.5	2.0	1.9	1.9
	CD (1%)	4.8	2.8	2.6	2.6

Moisture %

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	OMH14-27	19.6	17.1	18.4	18.4
2	Bio 9544 (C)	19.5	16.3	17.9	17.9
3	CMH 08 292 (C)	20.2	16.3	18.2	18.2
4	DHM 121 (C)	19.6	16.8	18.2	18.2
5	DHM117 (F)	20.4	16.9	18.7	18.7
6	NK 6240 (F)	19.3	16.7	18.0	18.0
7	CMH 08 287 (F)	19.8	16.2	18.0	18.0
	Location Mean	19.8	16.6	18.2	18.2
	CV (%)	3.7	5.5	4.6	4.6
	F (Prob)	0.5	0.8	0.7	0.7
	CD (5%)	1.3	1.6	1.0	1.0
	CD (1%)	1.8	2.3	1.3	1.3

Days to 75% Dry husk

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	OMH14-27	102	97	100	100
2	Bio 9544 (C)	102	96	99	99
3	CMH 08 292 (C)	101	94	98	98
4	DHM 121 (C)	101	97	99	99
5	DHM117 (F)	103	97	100	100
6	NK 6240 (F)	102	95	99	99
7	CMH 08 287 (F)	101	97	99	99
	Location Mean	101.8	96.3	99.1	99.1
	CV (%)	0.8	0.9	0.9	0.9
	F (Prob)	0.0	0.0	0.0	0.0
	CD (5%)	1.4	1.6	1.0	1.0
	CD (1%)	1.9	2.3	1.4	1.4

Days to 50% Anthesis

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	OMH14-27	60	53	57	57
2	Bio 9544 (C)	60	53	57	57
3	CMH 08 292 (C)	59	51	55	55
4	DHM 121 (C)	60	54	57	57
5	DHM117 (F)	61	54	57	57
6	NK 6240 (F)	60	52	56	56
7	CMH 08 287 (F)	57	54	56	56
	Location Mean	59.6	53.0	56.3	56.3
	CV (%)	0.8	2.2	1.6	1.6
	F (Prob)	0.0	0.1	0.0	0.0
	CD (5%)	0.8	2.1	1.1	1.1
	CD (1%)	1.1	2.9	1.4	1.4

Days to 50% Silking

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	OMH14-27	62	57	59	59
2	Bio 9544 (C)	62	56	59	59
3	CMH 08 292 (C)	61	54	58	58
4	DHM 121 (C)	62	57	60	60
5	DHM117 (F)	63	58	61	61
6	NK 6240 (F)	62	56	59	59
7	CMH 08 287 (F)	60	57	59	59
	Location Mean	61.8	56.5	59.1	59.1
	CV (%)	0.9	1.7	1.3	1.3
	F (Prob)	0.0	0.0	0.0	0.0
	CD (5%)	1.0	1.7	0.9	0.9
	CD (1%)	1.3	2.4	1.3	1.3

Plant Height (cm)

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	OMH14-27	112	219	166	166
2	Bio 9544 (C)	120	201	161	161
3	CMH 08 292 (C)	127	230	179	179
4	DHM 121 (C)	119	215	167	167
5	DHM117 (F)	128	217	173	173
6	NK 6240 (F)	103	218	160	160
7	CMH 08 287 (F)	136	226	181	181
	Location Mean	120.6	218.1	169.3	169.3
	CV (%)	6.6	2.4	4.0	4.0
	F (Prob)	0.0	0.0	0.0	0.0
	CD (5%)	14.2	9.4	8.1	8.1
	CD (1%)	19.9	13.2	10.9	10.9

Initial Plant Stand

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	OMH14-27	62	59	60	60
2	Bio 9544 (C)	67	59	63	63
3	CMH 08 292 (C)	64	59	62	62
4	DHM 121 (C)	61	60	61	61
5	DHM117 (F)	39	60	49	49
6	NK 6240 (F)	68	61	65	65
7	CMH 08 287 (F)	61	61	61	61
	Location Mean	60.3	59.8	60.1	60.1
	CV (%)	5.3	2.0	4.0	4.0
	F (Prob)	0.0	0.2	0.0	0.0
	CD (5%)	5.7	2.1	2.9	2.9
	CD (1%)	8.0	3.0	3.9	3.9

Shelling %

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	OMH14-27	78	81	80	80
2	Bio 9544 (C)	78	81	79	79
3	CMH 08 292 (C)	79	80	80	80
4	DHM 121 (C)	77	76	77	77
5	DHM117 (F)	77	74	76	76
6	NK 6240 (F)	79	81	80	80
7	CMH 08 287 (F)	80	80	80	80
	Location Mean	78.3	79.1	78.7	78.7
	CV (%)	1.8	1.3	1.5	1.5
	F (Prob)	0.3	0.0	0.0	0.0
	CD (5%)	2.5	1.8	1.4	1.4
	CD (1%)	3.5	2.5	2.0	2.0

Gain in Yield in (%) over Bio 9544

S. No.	Entry Name	PZ KARI Gain	PZ KARI R	PZ VAGA Gain	PZ VAGA R	PZ ZONE Gain	PZ ZONE R	All India Gain	All India R
1	OMH14-27	-5.54	3	8.36	4	8.36	4	8.36	4
2	Bio 9544 (C)	0	2	0	7	0	7	0	7
3	CMH 08 292 (C)	3.25	1	1.77	6	1.77	6	1.77	6
4	DHM 121 (C)	-15	5	10.15	2	10.15	2	10.15	2
5	DHM117 (F)	-38.43	7	8.13	5	8.13	5	8.13	5
6	NK 6240 (F)	-8.98	4	9.68	3	9.68	3	9.68	3
7	CMH 08 287 (F)	-15.76	6	20.52	1	20.52	1	20.52	1

Gain in Yield in (%) over CMH 08 292

S. No.	Entry Name	PZ KARI Gain	PZ KARI R	PZ VAGA Gain	PZ VAGA R	PZ ZONE Gain	PZ ZONE R	All India Gain	All India R
1	OMH14-27	-8.5	3	6.48	4	6.48	4	6.48	4
2	Bio 9544 (C)	-3.1	2	-1.73	7	-1.73	7	-1.73	7
3	CMH 08 292 (C)	0	1	0	6	0	6	0	6
4	DHM 121 (C)	-18	5	8.24	2	8.24	2	8.24	2
5	DHM117 (F)	-40	7	6.25	5	6.25	5	6.25	5
6	NK 6240 (F)	-12	4	7.78	3	7.78	3	7.78	3
7	CMH 08 287 (F)	-18	6	18.43	1	18.43	1	18.43	1

Gain in Yield in (%) over DHM 121

S. No.	Entry Name	PZ KARI Gain	PZ KARI R	PZ VAGA Gain	PZ VAGA R	PZ ZONE Gain	PZ ZONE R	All India Gain	All India R
1	OMH14-27	11.13	3	-1.63	4	-1.63	4	-1.63	4
2	Bio 9544 (C)	17.65	2	-9.21	7	-9.21	7	-9.21	7
3	CMH 08 292 (C)	21.47	1	-7.61	6	-7.61	6	-7.61	6
4	DHM 121 (C)	0	5	0	2	0	2	0	2
5	DHM117 (F)	-27.6	7	-1.83	5	-1.83	5	-1.83	5
6	NK 6240 (F)	7.09	4	-0.43	3	-0.43	3	-0.43	3
7	CMH 08 287 (F)	-0.9	6	9.41	1	9.41	1	9.41	1

Table No. : 32 **Trial No. 702 (Rainfed-Medium Maturity)CWZ**
Yield Kg/ha

S. No.	Entry Name	CWZ						All India		Number of Cobs				Ear Height (cm)				Final Plant Stand (000/ha)				Moisture %			
		GODH		UDAI		ZONE				CWZ			All India	CWZ			All India	CWZ			All India	CWZ			All India
		Mean	R	Mean	R	Mean	R	Mean	R	GODH Mean	UDAI Mean	ZONE Mean	Mean	GODH Mean	UDAI Mean	ZONE Mean	Mean	GODH Mean	UDAI Mean	ZONE Mean	Mean	GODH Mean	UDAI Mea	ZONE Mean	Mean
1	CAH1511	3840	4	5667	3	4753	3	4753	3	44	60	52	52	83	103	93	93	48	62	55	55	15	21	18	18
2	RCRMH7(ZH138388)	3861	3	5797	1	4829	2	4829	2	42	57	49	49	90	103	97	97	47	63	55	55	14	22	18	18
3	VaMH 15036	4398	2	3551	5	3975	4	3975	4	39	52	46	46	68	97	82	82	47	59	53	53	16	21	18	18
4	Bio 9544 (C)	4940	1	5770	2	5355	1	5355	1	42	61	51	51	83	80	81	81	48	65	57	57	14	22	18	18
5	CMH 08 292 (C)	3569	5	3110	6	3340	6	3340	6	50	55	52	52	75	112	93	93	58	64	61	61	15	21	18	18
6	DHM 121 (C)	3377	7	4322	4	3850	5	3850	5	37	47	42	42	70	117	93	93	41	53	47	47	17	21	19	19
7	DHM117 (F)	3500	6	2586	7	3043	7	3043	7	41	36	38	38	75	97	86	86	46	46	46	46	15	22	19	19
	Location Mean	3926.4	.	4400.6	.	4163.5	.	4163.5	.	41.9	52.5	47.2	47.2	77.5	101.2	89.4	89.4	48.1	58.6	53.4	53.4	15.2	21.4	18.3	18.3
	CV (%)	12.1	.	16.6	.	14.8	.	14.8	.	10.1	9.9	9.7	9.7	3.6	15.2	11.8	11.8	10.6	9.8	9.5	9.5	0.0	0.0	0.0	0.0
	F (Prob)	0.0	.	0.0	.	0.0	.	0.0	.	0.1	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	843.0	.	1299.0	.	733.5	.	733.5	.	7.5	9.2	5.4	5.4	5.0	27.3	12.5	12.5	9.0	10.2	6.0	6.0	0.0	0.0	1.8	1.8
	CD (1%)	1181.9	.	1821.1	.	994.0	.	994.0	.	10.6	12.9	7.4	7.4	6.9	38.3	17.0	17.0	12.7	14.3	8.2	8.2	0.0	0.0	2.4	2.4

		Days to 75% Dry husk				Days to 50% Anthesis				Days to 50% Silking				Plant Height (cm)				Initial Plant Stand				Shelling %			
S. No.	Entry Name	GODH	UDAI	ZONE	All India	CWZ GODH	UDAI	ZONE	All India	CWZ GODH	UDAI	ZONE	All India	CWZ GODH	UDAI	ZONE	All India	CWZ GODH	UDAI	ZONE	All India	CWZ GODH	UDAI	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mea	Mean	Mean
1	CAH1511	86	92	89	89	49	53	51	51	52	55	53	53	173	210	191	191	47	62	54	54	83	78	81	81
2	RCRMH7(ZH138388)	92	94	93	93	52	53	52	52	54	54	54	54	175	203	189	189	45	63	54	54	85	80	82	82
3	VaMH 15036	89	92	90	90	50	52	51	51	53	53	53	53	160	185	173	173	46	60	53	53	86	76	81	81
4	Bio 9544 (C)	88	95	91	91	51	55	53	53	54	56	55	55	178	168	173	173	47	65	56	56	86	77	82	82
5	CMH 08 292 (C)	86	90	88	88	52	50	51	51	55	51	53	53	165	207	186	186	56	64	60	60	87	76	81	81
6	DHM 121 (C)	89	93	91	91	49	54	51	51	52	56	54	54	178	213	195	195	40	54	47	47	80	78	79	79
7	DHM117 (F)	92	94	93	93	53	56	54	54	56	58	57	57	163	198	180	180	44	48	46	46	83	75	79	79
	Location Mean	88.6	92.9	90.8	90.8	50.6	53.0	51.8	51.8	53.4	54.8	54.1	54.1	170.0	197.9	183.9	183.9	46.1	59.4	52.8	52.8	84.2	77.1	80.7	80.7
	CV (%)	2.0	1.2	1.6	1.6	1.4	2.8	2.2	2.2	1.3	2.4	1.9	1.9	4.3	10.3	7.7	7.7	10.6	9.4	9.3	9.3	0.0	0.0	0.0	0.0
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
	CD (5%)	3.1	2.1	1.8	1.8	1.2	2.6	1.4	1.4	1.2	2.3	1.2	1.2	13.0	36.2	16.9	16.9	8.7	9.9	5.8	5.8	0.0	0.0	16.9	16.9
	CD (1%)	4.4	2.9	2.4	2.4	1.7	3.7	1.9	1.9	1.7	3.2	1.7	1.7	18.3	50.8	22.9	22.9	12.2	13.9	7.9	7.9	0.0	0.0	22.9	22.9

		Gain inYield (%) over BIO 9544								Gain inYield (%) over CMH 08 292								Gain inYield (%) over DHM 121							
S. No.	Entry Name	CWZ GODH		UDAI		ZONE		All India		CWZ GODH		UDAI		ZONE		All India		CWZ GODH		UDAI		ZONE		All India	
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	CAH1511	-22.27	4	-1.78	3	-11.23	3	-11.23	3	7.58	4	82.2	3	42.34	3	42.34	3	13.71	4	31.11	3	23.48	3	23.48	3
2	RCRMH7(ZH138388)	-21.84	3	0.48	1	-9.82	2	-9.82	2	8.18	3	86.4	1	44.61	2	44.61	2	14.33	3	34.12	1	25.44	2	25.44	2
3	VaMH 15036	-10.96	2	-38.45	5	-25.77	4	-25.77	4	23.23	2	14.2	5	19.03	4	19.03	4	30.25	2	-17.8	5	3.25	4	3.25	4
4	Bio 9544 (C)	0	1	0	2	0	1	0	1	38.4	1	85.5	2	60.35	1	60.35	1	46.28	1	33.49	2	39.1	1	39.1	1
5	CMH 08 292 (C)	-27.75	5	-46.1	6	-37.64	6	-37.64	6	0	5	0	6	0	6	0	6	5.69	5	-28.1	6	-13.3	6	-13.3	6
6	DHM 121 (C)	-31.64	7	-25.09	4	-28.11	5	-28.11	5	-5.39	7	39	4	15.28	5	15.28	5	0	7	0	4	0	5	0	5
7	DHM117 (F)	-29.16	6	-55.18	7	-43.17	7	-43.17	7	-1.95	6	-16.8	7	-8.88	7	-8.88	7	3.63	6	-40.2	7	-21	7	-21	7

Table No. : 33 **Trial No. 705 (RF-Late Maturity) PZ Yield Kg/ha**

S. No.	Entry Name	PZ KARI Mean	PZ KARI R	PZ VAGA Mean	PZ VAGA R	PZ ZONE Mean	PZ ZONE R	All India Mean	All India R
1	CMH 15-005	3207	2	7420	3	7420	3	7420	3
2	Bio 9682 (C)	2529	5	7014	7	7014	7	7014	7
3	CHM 08-282 (C)	3175	3	7722	1	7722	1	7722	1
4	CMH 08-287 (C)	2302	6	7611	2	7611	2	7611	2
5	NK 6240 (C)	2759	4	7247	5	7247	5	7247	5
6	BIO 9544 (F)	3267	1	7406	4	7406	4	7406	4
7	DHM 117 (F)	1687	7	7228	6	7228	6	7228	6
	L Mean	2703.8	.	7378.2	.	7378.2	.	7378.2	.
	CV (%)	12.2	.	8.6	.	8.6	.	8.6	.
	F (Prob)	0.0	.	0.8	.	0.8	.	0.8	.
	CD (5%)	587.4	.	1129.3	.	1129.3	.	1129.3	.
	CD (1%)	823.5	.	1583.2	.	1583.2	.	1583.2	.

Number of Cobs

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	CMH 15-005	52	58	55	55
2	Bio 9682 (C)	52	58	55	55
3	CHM 08-282 (C)	58	57	58	58
4	CMH 08-287 (C)	50	58	54	54
5	NK 6240 (C)	52	58	55	55
6	BIO 9544 (F)	56	57	57	57
7	DHM 117 (F)	32	57	45	45
	L Mean	50.2	57.6	53.9	53.9
	CV (%)	7.3	2.1	4.8	4.8
	F (Prob)	0.0	0.7	0.0	0.0
	CD (5%)	6.5	2.1	3.1	3.1
	CD (1%)	9.2	3.0	4.2	4.2

Ear Height (cm)

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	CMH 15-005	55	116	86	86
2	Bio 9682 (C)	45	102	74	74
3	CHM 08-282 (C)	54	125	90	90
4	CMH 08-287 (C)	57	115	86	86
5	NK 6240 (C)	46	108	77	77
6	BIO 9544 (F)	51	103	77	77
7	DHM 117 (F)	50	115	82	82
	L Mean	51.1	112.0	81.6	81.6
	CV (%)	8.9	8.7	9.3	9.3
	F (Prob)	0.1	0.1	0.0	0.0
	CD (5%)	8.1	17.3	9.0	9.0
	CD (1%)	11.4	24.2	12.2	12.2

Final Plant Stand (000/ha)

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	CMH 15-005	49	48	49	49
2	Bio 9682 (C)	50	48	49	49
3	CHM 08-282 (C)	53	48	50	50
4	CMH 08-287 (C)	49	49	49	49
5	NK 6240 (C)	48	49	49	49
6	BIO 9544 (F)	53	48	50	50
7	DHM 117 (F)	35	48	41	41
	L Mean	48.3	48.3	48.3	48.3
	CV (%)	5.8	2.4	4.3	4.3
	F (Prob)	0.0	0.6	0.0	0.0
	CD (5%)	5.0	2.1	2.5	2.5
	CD (1%)	7.0	2.9	3.3	3.3

Moisture %

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	CMH 15-005	20	16	18	18
2	Bio 9682 (C)	21	16	19	19
3	CHM 08-282 (C)	20	16	18	18
4	CMH 08-287 (C)	21	16	18	18
5	NK 6240 (C)	19	16	18	18
6	BIO 9544 (F)	20	17	18	18
7	DHM 117 (F)	20	17	18	18
	L Mean	20.2	16.3	18.2	18.2
	CV (%)	3.9	3.9	3.9	3.9
	F (Prob)	0.2	0.6	0.3	0.3
	CD (5%)	1.4	1.1	0.9	0.9
	CD (1%)	2.0	1.6	1.2	1.2

Days to 75% Dry husk

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	CMH 15-005	105	98	101	101
2	Bio 9682 (C)	103	97	100	100
3	CHM 08-282 (C)	100	98	99	99
4	CMH 08-287 (C)	104	98	101	101
5	NK 6240 (C)	102	98	100	100
6	BIO 9544 (F)	102	98	100	100
7	DHM 117 (F)	106	99	103	103
	L Mean	103.1	98.0	100.5	100.5
	CV (%)	1.3	0.7	1.1	1.1
	F (Prob)	0.0	0.1	0.0	0.0
	CD (5%)	2.4	1.2	1.3	1.3
	CD (1%)	3.3	1.7	1.7	1.7

Days to 50% Anthesis

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	CMH 15-005	60	54	57	57
2	Bio 9682 (C)	60	53	57	57
3	CHM 08-282 (C)	57	54	55	55
4	CMH 08-287 (C)	60	54	57	57
5	NK 6240 (C)	58	54	56	56
6	BIO 9544 (F)	58	53	56	56
7	DHM 117 (F)	62	55	58	58
	L Mean	59.2	53.9	56.5	56.5
	CV (%)	1.4	2.1	1.7	1.7
	F (Prob)	0.0	0.7	0.0	0.0
	CD (5%)	1.5	2.0	1.2	1.2
	CD (1%)	2.1	2.8	1.6	1.6

Days to 50% Silking

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	CMH 15-005	64	56	60	60
2	Bio 9682 (C)	63	57	60	60
3	CHM 08-282 (C)	60	57	58	58
4	CMH 08-287 (C)	63	57	60	60
5	NK 6240 (C)	62	56	59	59
6	BIO 9544 (F)	61	56	59	59
7	DHM 117 (F)	65	57	61	61
	L Mean	62.5	56.7	59.6	59.6
	CV (%)	1.5	1.5	1.4	1.4
	F (Prob)	0.0	0.7	0.0	0.0
	CD (5%)	1.7	1.5	1.0	1.0
	CD (1%)	2.3	2.1	1.4	1.4

Plant Height (cm)

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	CMH 15-005	128	235	182	182
2	Bio 9682 (C)	103	194	149	149
3	CHM 08-282 (C)	119	235	177	177
4	CMH 08-287 (C)	134	231	183	183
5	NK 6240 (C)	100	208	154	154
6	BIO 9544 (F)	103	198	151	151
7	DHM 117 (F)	119	210	164	164
	L Mean	115.2	216.1	165.6	165.6
	CV (%)	4.1	2.9	3.3	3.3
	F (Prob)	0.0	0.0	0.0	0.0
	CD (5%)	8.5	11.0	6.6	6.6
	CD (1%)	11.9	15.4	8.9	8.9

Initial Plant Stand

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	CMH 15-005	63	58	61	61
2	Bio 9682 (C)	61	59	60	60
3	CHM 08-282 (C)	68	59	63	63
4	CMH 08-287 (C)	63	60	61	61
5	NK 6240 (C)	62	60	61	61
6	BIO 9544 (F)	66	59	62	62
7	DHM 117 (F)	42	59	51	51
	L Mean	60.7	59.0	59.9	59.9
	CV (%)	4.8	3.2	4.1	4.1
	F (Prob)	0.0	1.0	0.0	0.0
	CD (5%)	5.2	3.4	2.9	2.9
	CD (1%)	7.3	4.7	4.0	4.0

Shelling %

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	CMH 15-005	78	77	78	78
2	Bio 9682 (C)	79	79	79	79
3	CHM 08-282 (C)	78	80	79	79
4	CMH 08-287 (C)	78	80	79	79
5	NK 6240 (C)	77	81	79	79
6	BIO 9544 (F)	78	79	78	78
7	DHM 117 (F)	76	76	76	76
	L Mean	77.7	78.7	78.2	78.2
	CV (%)	1.6	2.0	1.7	1.7
	F (Prob)	0.3	0.0	0.0	0.0
	CD (5%)	2.2	2.7	1.6	1.6
	CD (1%)	3.0	3.8	2.2	2.2

Gain in Yield in (%) over Bio 9682

S. No.	Entry Name	PZ KARI Gain	PZ KARI R	PZ VAGA Gain	PZ VAGA R	PZ ZONE Gain	PZ ZONE R	All India Gain	All India R
1	CMH 15-005	26.82	2	5.78	3	5.78	3	5.78	3
2	Bio 9682 (C)	0	5	0	7	0	7	0	7
3	CHM 08-282 (C)	25.55	3	10.1	1	10.1	1	10.1	1
4	CMH 08-287 (C)	-8.96	6	8.51	2	8.51	2	8.51	2
5	NK 6240 (C)	9.11	4	3.32	5	3.32	5	3.32	5
6	BIO 9544 (F)	29.2	1	5.59	4	5.59	4	5.59	4
7	DHM 117 (F)	-33.29	7	3.06	6	3.06	6	3.06	6

Gain in Yield in (%) over CMH 08 282

S. No.	Entry Name	PZ KARI Gain	PZ KARI R	PZ VAGA Gain	PZ VAGA R	PZ ZONE Gain	PZ ZONE R	All India Gain	All India R
1	CMH 15-005	1.01	2	-3.92	3	-3.92	3	-3.92	3
2	Bio 9682 (C)	-20.35	5	-9.17	7	-9.17	7	-9.17	7
3	CHM 08-282 (C)	0	3	0	1	0	1	0	1
4	CMH 08-287 (C)	-27.49	6	-1.45	2	-1.45	2	-1.45	2
5	NK 6240 (C)	-13.09	4	-6.16	5	-6.16	5	-6.16	5
6	BIO 9544 (F)	2.9	1	-4.09	4	-4.09	4	-4.09	4
7	DHM 117 (F)	-46.87	7	-6.39	6	-6.39	6	-6.39	6

Gain in Yield in (%) over CMH 08 287

S. No.	Entry Name	PZ KARI Gain	PZ KARI R	PZ VAGA Gain	PZ VAGA R	PZ ZONE Gain	PZ ZONE R	All India Gain	All India R
1	CMH 15-005	39.31	2	-2.51	3	-2.51	3	-2.51	3
2	Bio 9682 (C)	9.85	5	-7.84	7	-7.84	7	-7.84	7
3	CHM 08-282 (C)	37.91	3	1.47	1	1.47	1	1.47	1
4	CMH 08-287 (C)	0	6	0	2	0	2	0	2
5	NK 6240 (C)	19.86	4	-4.78	5	-4.78	5	-4.78	5
6	BIO 9544 (F)	41.92	1	-2.69	4	-2.69	4	-2.69	4
7	DHM 117 (F)	-26.72	7	-5.02	6	-5.02	6	-5.02	6

Gain in Yield in (%) over NK 6240

S. No.	Entry Name	PZ KARI Gain	PZ KARI R	PZ VAGA Gain	PZ VAGA R	PZ ZONE Gain	PZ ZONE R	All India Gain	All India R
1	CMH 15-005	16.23	2	2.39	3	2.39	3	2.39	3
2	Bio 9682 (C)	-8.35	5	-3.21	7	-3.21	7	-3.21	7
3	CHM 08-282 (C)	15.07	3	6.56	1	6.56	1	6.56	1
4	CMH 08-287 (C)	-16.57	6	5.02	2	5.02	2	5.02	2
5	NK 6240 (C)	0	4	0	5	0	5	0	5
6	BIO 9544 (F)	18.41	1	2.2	4	2.2	4	2.2	4
7	DHM 117 (F)	-38.86	7	-0.25	6	-0.25	6	-0.25	6

Table No. : 34	Trial No. 704 (RF-Late Maturity) CWZ Yield Kg/ha								Number of Cobs				Ear Height (cm)				Final Plant Stand (000/ha)				Moisture %			
S. No.	Entry Name	CWZ GODH Mean	CWZ GODH R	CWZ UDAI Mean	CWZ UDAI R	CWZ ZONE Mean	CWZ ZONE R	All India Mean	All India R	GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean	GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean	GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean	GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean
1	CMH 12 -686	3004	7	6592	3	4798	3	4798	3	43	67	55	55	73	112	92	92	47	73	60	60	16.2	21.6	18.9	18.9
2	CMH 15-005	4669	1	4603	5	4636	4	4636	4	33	51	42	42	63	113	88	88	36	59	48	48	16.9	21.1	19.0	19.0
3	Bio 9682 (C)	3408	5	6949	1	5178	1	5178	1	38	59	48	48	63	97	80	80	41	64	53	53	17.5	21.0	19.3	19.3
4	CHM 08-282 (C)	3249	6	4938	4	4093	7	4093	7	35	60	48	48	70	120	95	95	40	65	52	52	14.9	19.5	17.2	17.2
5	CMH 08-287 (C)	4271	2	3997	7	4134	5	4134	5	39	46	43	43	73	112	92	92	44	51	48	48	13.8	20.7	17.3	17.3
6	NK 6240 (C)	3421	4	6650	2	5035	2	5035	2	39	62	50	50	70	102	86	86	43	69	56	56	15.7	20.0	17.9	17.9
7	DHM 117 (F)	3673	3	4518	6	4096	6	4096	6	40	46	43	43	70	117	93	93	46	55	51	51	15.8	22.0	18.9	18.9
	L Mean	3670.7	.	5463.7	.	4567.2	.	4567.2	.	38.0	56.0	47.0	47.0	68.6	110.2	89.4	89.4	42.6	62.5	52.5	52.5	15.8	20.8	18.3	18.3
	CV (%)	13.2	.	13.2	.	13.5	.	13.5	.	11.4	13.1	12.8	12.8	10.9	10.1	10.0	10.0	10.1	12.4	11.6	11.6	0.0	0.0	0.0	0.0
	F (Prob)	0.0	.	0.0	.	0.0	.	0.0	.	0.2	0.0	0.0	0.0	0.5	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	864.3	.	1286.2	.	733.9	.	733.9	.	7.7	13.0	7.2	7.2	13.3	19.8	10.7	10.7	7.6	13.8	7.3	7.3	0.0	0.0	1.7	1.7
	CD (1%)	1211.6	.	1803.2	.	994.6	.	994.6	.	10.8	18.3	9.7	9.7	18.7	27.7	14.5	14.5	10.7	19.3	9.9	9.9	0.0	0.0	2.3	2.3

		Days to 75% Dry Husk				Days to 50% Anthesis				Days to 50% Silking				Plant Height (cm)				Initial Plant Stand				Shelling %			
S. No.	Entry Name	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean
1	CMH 12 -686	88	99	93	93	52	53	53	53	56	55	55	55	178	205	191	191	46	73	59	59	75	80	78	79
2	CMH 15-005	89	100	94	94	57	53	55	55	60	55	57	57	173	217	195	195	35	60	48	48	88	77	83	80
3	Bio 9682 (C)	92	101	96	96	58	54	56	56	62	55	58	58	178	210	194	194	40	64	52	52	88	81	84	82
4	CHM 08-282 (C)	88	96	92	92	49	53	51	51	53	54	53	53	175	217	196	196	38	65	51	51	77	78	77	78
5	CMH 08-287 (C)	88	99	94	94	51	55	53	53	55	56	55	55	178	210	194	194	43	52	47	47	86	78	82	80
6	NK 6240 (C)	89	100	94	94	54	53	53	53	57	54	55	55	178	190	184	184	41	69	55	55	86	80	83	81
7	DHM 117 (F)	89	100	94	94	53	55	54	54	56	56	56	56	175	217	196	196	45	56	50	50	80	79	80	79
	L Mean	88.6	99.4	94.0	94.0	53.1	53.7	53.4	53.4	56.6	55.1	55.9	55.9	176.1	209.3	192.7	192.7	40.9	62.6	51.7	51.7	82.8	79.0	80.9	79.9
	CV (%)	1.7	1.4	1.5	1.5	9.4	1.7	6.4	6.4	8.6	1.2	5.9	5.9	4.5	7.8	6.3	6.3	10.1	11.5	11.1	11.1	0.0	0.0	0.0	0.0
	F (Prob)	0.1	0.0	0.0	0.0	0.4	0.1	0.3	0.3	0.4	0.0	0.3	0.3	1.0	0.5	0.6	0.6	0.1	0.1	0.0	0.0	0.0	0.0	0.6	0.6
	CD (5%)	2.6	2.4	1.7	1.7	8.9	1.6	4.1	4.1	8.7	1.2	4.0	4.0	14.2	29.1	14.4	14.4	7.3	12.8	6.9	6.9	0.0	0.0	14.4	14.4
	CD (1%)	3.7	3.4	2.3	2.3	12.4	2.3	5.5	5.5	12.2	1.7	5.4	5.4	20.0	40.7	19.5	19.5	10.3	17.9	9.3	9.3	0.0	0.0	19.5	19.5

		Gain in Yield (%) over Bio 9682								Gain in Yield (%) over CMH 08 282								Gain in Yield (%) overCMH 08 287							
S. No.	Entry Name	CWZ GODH Gain	CWZ GODH R	CWZ UDAI Gain	CWZ UDAI R	CWZ ZONE Gain	CWZ ZONE R	All India Gain	All India R	CWZ GODH Gain	CWZ GODH R	CWZ UDAI Gain	CWZ UDAI R	CWZ ZONE Gain	CWZ ZONE R	All India Gain	All India R	CWZ GODH Gain	CWZ GODH R	CWZ UDAI Gain	CWZ UDAI R	CWZ ZONE Gain	CWZ ZONE R	All India Gain	All India R
1	CMH 12 -686	-11.85	7	-5.14	3	-7.35	3	-7.35	3	-7.55	7	33.5	3	17.21	3	17.21	3	-29.67	7	64.92	3	16.06	3	16.06	3
2	CMH 15-005	37.02	1	-33.77	5	-10.47	4	-10.47	4	43.72	1	-6.79	5	13.26	4	13.26	4	9.32	1	15.15	5	12.14	4	12.14	4
3	Bio 9682 (C)	0	5	0	1	0	1	0	1	4.88	5	40.74	1	26.51	1	26.51	1	-20.22	5	73.86	1	25.26	1	25.26	1
4	CHM 08-282 (C)	-4.66	6	-28.94	4	-20.95	7	-20.95	7	0	6	0	4	0	7	0	7	-23.93	6	23.54	4	-0.98	7	-0.98	7
5	CMH 08-287 (C)	25.34	2	-42.48	7	-20.17	5	-20.17	5	31.46	2	-19.1	7	0.99	5	0.99	5	0	2	0	7	0	5	0	5
6	NK 6240 (C)	0.38	4	-4.3	2	-2.76	2	-2.76	2	5.28	4	34.68	2	23.01	2	23.01	2	-19.91	4	66.38	2	21.8	2	21.8	2
7	DHM 117 (F)	7.8	3	-34.98	6	-20.9	6	-20.9	6	13.06	3	-8.49	6	0.06	6	0.06	6	-13.99	3	13.05	6	-0.92	6	-0.92	6

		Gain in Yield (%) over NK 6240							
S. No.	Entry Name	CWZ GODH Gain	CWZ GODH R	CWZ UDAI Gain	CWZ UDAI R	CWZ ZONE Gain	CWZ ZONE R	All India Gain	All India R
1	CMH 12 -686	-12.18	7	-0.88	3	-4.72	3	-4.72	3
2	CMH 15-005	36.51	1	-30.79	5	-7.93	4	-7.93	4
3	Bio 9682 (C)	-0.38	5	4.5	1	2.84	1	2.84	1
4	CHM 08-282 (C)	-5.02	6	-25.75	4	-18.71	7	-18.71	7
5	CMH 08-287 (C)	24.87	2	-39.9	7	-17.9	5	-17.9	5
6	NK 6240 (C)	0	4	0	2	0	2	0	2
7	DHM 117 (F)	7.39	3	-32.06	6	-18.66	6	-18.66	6

Table No. : 35	Trial No. 765 (RF-Normal-Early Maturity) PZ Yield Kg/ha									Number of Cobs				Ear Height (cm)			
S. No.	Entry Name	PZ						All India		PZ			All India	PZ			All India
		KARI		VAGA		ZONE				KARI	VAGA	ZONE		KARI	VAGA	ZONE	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADH 1619	3314	5	7806	3	7806	3	7806	3	60	58	59	59	56	111	84	84
2	ADH 8106	4610	1	7786	4	7786	4	7786	4	65	57	61	61	58	103	80	80
3	Bio 605 (C)	3784	4	8209	2	8209	2	8209	2	59	56	58	58	50	110	80	80
4	DKC7074 (C)	3285	6	7103	6	7103	6	7103	6	63	58	61	61	56	95	76	76
5	Vivek Hybrid 45 (C)	4329	2	7351	5	7351	5	7351	5	65	58	62	62	42	94	68	68
6	Vivek Hybrid 51 (C)	3252	7	7052	7	7052	7	7052	7	61	57	59	59	59	105	82	82
7	DHM 117 (F)	4190	3	8380	1	8380	1	8380	1	56	57	57	57	72	110	91	91
	L Mean	3823.3	.	7669.6	.	7669.6	.	7669.6	.	61.3	57.1	59.2	59.2	56.1	103.9	80.0	80.0
	CV (%)	13.3	.	8.7	.	8.2	.	8.2	.	8.3	4.3	6.4	6.4	7.7	11.9	11.2	11.2
	F (Prob)	0.0	.	0.2	.	0.1	.	0.1	.	0.4	0.9	0.3	0.3	0.0	0.5	0.0	0.0
	CD (5%)	903.6	.	1189.4	.	1122.6	.	1122.6	.	9.1	4.4	4.5	4.5	7.7	22.0	10.7	10.7
	CD (1%)	1266.8	.	1667.4	.	1573.7	.	1573.7	.	12.7	6.1	6.1	6.1	10.7	30.8	14.5	14.5

	Shelling %				Plant Height (cm)				Gain in Yield (%) over Bio 605							
S. No.	Entry Name	PZ			All India	PZ			All India	PZ						All India	
		KARI	VAGA	ZONE		KARI	VAGA	ZONE		KARI		VAGA		ZONE			
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Gain	R	Gain	R	Gain	R	Gain	R
1	ADH 1619	80	80	80	80	118	208	163	163	-12.4	5	-4.91	3	-4.91	3	-4.91	3
2	ADH 8106	79	79	79	79	128	204	166	166	21.81	1	-5.16	4	-5.16	4	-5.16	4
3	Bio 605 (C)	81	80	80	80	116	210	163	163	0	4	0	2	0	2	0	2
4	DKC7074 (C)	80	80	80	80	114	205	160	160	-13.2	6	-13.48	6	-13.48	6	-13.48	6
5	Vivek Hybrid 45 (C)	81	80	80	80	116	193	155	155	14.38	2	-10.45	5	-10.45	5	-10.45	5
6	Vivek Hybrid 51 (C)	81	81	81	81	120	197	159	159	-14.1	7	-14.1	7	-14.1	7	-14.1	7
7	DHM 117 (F)	78	77	77	77	143	213	178	178	10.71	3	2.08	1	2.08	1	2.08	1
	L Mean	79.9	79.6	79.7	79.7	122.2	204.4	163.3	163.3								
	CV (%)	1.0	1.2	1.1	1.1	3.7	3.2	3.4	3.4								
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
	CD (5%)	1.4	1.7	1.0	1.0	8.1	11.5	6.7	6.7								
	CD (1%)	1.9	2.4	1.4	1.4	11.3	16.2	9.0	9.0								

Table No. : 35	(Conti...) Final Plant Stand (000/ha)					Moisture %				Days to 75% Dry husk				Days to 50% Anthesis				Days to 50% Silking			
S. No.	Entry Name	PZ			All India	PZ			All India	PZ			All India	PZ			All India	PZ			All India
		KARI	VAGA	ZONE		KARI	VAGA	ZONE		KARI	VAGA	ZONE		KARI	VAGA	ZONE		KARI	VAGA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADH 1619	53	49	51	51	16.7	16.4	16.6	16.6	94	91	93	93	53	49	51	51	55	52	53	53
2	ADH 8106	53	48	51	51	17.0	16.3	16.6	16.6	98	93	96	96	56	51	53	53	58	54	56	56
3	Bio 605 (C)	51	48	50	50	16.5	16.5	16.5	16.5	99	89	94	94	56	46	51	51	58	49	54	54
4	DKC7074 (C)	52	50	51	51	17.1	15.9	16.5	16.5	96	92	94	94	55	48	52	52	57	51	54	54
5	Vivek Hybrid 45 (C)	54	49	52	52	16.0	16.3	16.2	16.2	97	91	94	94	54	47	51	51	56	51	54	54
6	Vivek Hybrid 51 (C)	53	48	51	51	16.1	17.0	16.5	16.5	86	89	88	88	49	46	47	47	51	50	51	51
7	DHM 117 (F)	49	48	49	49	18.7	17.1	17.9	17.9	102	93	97	97	59	53	56	56	61	56	59	59
	L Mean	52.4	48.5	50.4	50.4	16.9	16.5	16.7	16.7	95.8	91.2	93.5	93.5	54.4	48.5	51.5	51.5	56.6	52.0	54.3	54.3
	CV (%)	2.0	4.7	3.5	3.5	3.5	5.9	4.7	4.7	0.9	2.0	1.5	1.5	1.2	3.3	2.3	2.3	1.1	3.3	2.3	2.3
	F (Prob)	0.0	0.9	0.2	0.2	0.0	0.8	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	1.9	4.0	2.1	2.1	1.0	1.7	0.9	0.9	1.5	3.2	1.7	1.7	1.2	2.9	1.4	1.4	1.1	3.1	1.5	1.5
	CD (1%)	2.6	5.7	2.8	2.8	1.5	2.4	1.3	1.3	2.1	4.6	2.3	2.3	1.7	4.0	1.9	1.9	1.6	4.3	2.0	2.0

		Gain in Yield (%) over DKC 7074								Gain in Yield (%) over Vivek Hybrid 45								Gain in Yield (%) over Vivek Hybrid 51							
S. No.	Entry Name	PZ						All India		PZ						All India		PZ						All India	
		KARI		VAGA		ZONE				KARI		VAGA		ZONE				KARI		VAGA		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADH 1619	0.87	5	9.9	3	9.9	3	9.9	3	-23.44	5	6.18	3	6.18	3	6.18	3	1.9	5	10.69	3	10.69	3	10.69	3
2	ADH 8106	40.32	1	9.62	4	9.62	4	9.62	4	6.49	1	5.91	4	5.91	4	5.91	4	41.75	1	10.4	4	10.4	4	10.4	4
3	Bio 605 (C)	15.2	4	15.58	2	15.58	2	15.58	2	-12.57	4	11.67	2	11.67	2	11.67	2	16.37	4	16.41	2	16.41	2	16.41	2
4	DKC7074 (C)	0	6	0	6	0	6	0	6	-24.1	6	-3.38	6	-3.38	6	-3.38	6	1.02	6	0.72	6	0.72	6	0.72	6
5	Vivek Hybrid 45 (C)	31.76	2	3.5	5	3.5	5	3.5	5	0	2	0	5	0	5	0	5	33.1	2	4.24	5	4.24	5	4.24	5
6	Vivek Hybrid 51 (C)	-1.01	7	-0.71	7	-0.71	7	-0.71	7	-24.87	7	-4.07	7	-4.07	7	-4.07	7	0	7	0	7	0	7	0	7
7	DHM 117 (F)	27.53	3	17.98	1	17.98	1	17.98	1	-3.21	3	13.99	1	13.99	1	13.99	1	28.83	3	18.83	1	18.83	1	18.83	1
	L Mean																								
	CV (%)																								
	F (Prob)																								
	CD (5%)																								
	CD (1%)																								

Table No. : 36	Trial No. 769 (RF-Normal-Early Maturity) CWZ Yield Kg/ha								Number of Cobs				Ear Height (cm)				Final Plant Stand (000/ha)			
S. No.	Entry Name	CWZ GODH Mean	CWZ GODH R	CWZ UDAI Mean	CWZ UDAI R	CWZ ZONE Mean	CWZ ZONE R	All India Mean	All India R	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean
1	ADH 8106	1946	4	4105	3	3026	4	3026	4	27	45	36	36	74	105	89	89	30	52	41	41
2	AH 8127	1770	6	5381	2	3575	2	3575	2	19	54	37	37	75	100	88	88	22	58	40	40
3	Vivek Hybrid 45	1870	5	3334	5	2602	7	2602	7	24	58	41	41	77	67	72	72	25	66	46	46
4	Bio 605 (C)	2247	3	3244	6	2745	6	2745	6	28	48	38	38	64	97	80	80	31	53	42	42
5	DKC7074 (C)	1583	7	5583	1	3583	1	3583	1	32	65	49	49	72	100	86	86	36	73	55	55
6	Vivek Hybrid 51 (C)	3658	1	1885	7	2771	5	2771	5	38	53	45	45	69	88	79	79	39	66	52	52
7	DHM 117 (F)	3294	2	3620	4	3457	3	3457	3	32	35	33	33	73	93	83	83	33	43	38	38
	L Mean	2338.1	.	3878.8	.	3108.4	.	3108.4	.	28.4	51.1	39.8	39.8	71.7	92.9	82.3	82.3	30.9	58.9	44.9	44.9
	CV (%)	25.6	.	24.2	.	25.3	.	25.3	.	19.0	16.8	17.3	17.3	3.7	10.5	8.7	8.7	19.7	10.4	13.1	13.1
	F (Prob)	0.0	.	0.0	.	0.2	.	0.2	.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
	CD (5%)	1063.6	.	1667.7	.	936.8	.	936.8	.	9.6	15.3	8.2	8.2	4.7	17.3	8.5	8.5	10.8	10.9	7.0	7.0
	CD (1%)	1491.1	.	2338.0	.	1269.6	.	1269.6	.	13.5	21.5	11.1	11.1	6.6	24.3	11.5	11.5	15.2	15.3	9.5	9.5

		Moisture %				Days to 75% Dry husk				Days to 50% Anthesis				Days to 50% Silking				Plant Height (cm)			
S. No.	Entry Name	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean	CWZ GODH Mean	CWZ UDAI Mean	CWZ ZONE Mean	All India Mean
1	ADH 8106	17.5	19.9	18.7	18.7	90	91	90	90	51	53	52	52	54	55	55	55	178	208	193	193
2	AH 8127	15.0	21.6	18.3	18.3	89	90	90	90	53	53	53	53	55	55	55	55	173	207	190	190
3	Vivek Hybrid 45	16.0	21.6	18.8	18.8	92	88	90	90	54	45	50	50	57	47	52	52	177	140	158	158
4	Bio 605 (C)	16.5	20.0	18.3	18.3	89	89	89	89	53	53	53	53	55	55	55	55	175	193	184	184
5	DKC7074 (C)	17.2	19.6	18.4	18.4	92	89	91	91	53	49	51	51	56	52	54	54	170	187	178	178
6	Vivek Hybrid 51 (C)	18.2	20.0	19.1	19.1	88	86	87	87	51	45	48	48	54	47	50	50	163	167	165	165
7	DHM 117 (F)	16.0	19.8	17.9	17.9	86	92	89	89	50	54	52	52	52	57	55	55	175	190	183	183
	L Mean	16.6	20.4	18.5	18.5	89.4	89.3	89.3	89.3	51.8	50.5	51.1	51.1	54.5	52.4	53.5	53.5	172.7	184.5	178.6	178.6
	CV (%)	0.0	0.0	0.0	0.0	2.7	1.1	2.0	2.0	3.2	3.2	3.2	3.2	2.8	2.4	2.6	2.6	4.0	10.9	8.4	8.4
	F (Prob)	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0
	CD (5%)	0.0	0.0	2.1	2.1	4.3	1.7	2.1	2.1	2.9	2.8	1.9	1.9	2.7	2.3	1.7	1.7	12.3	35.7	17.9	17.9
	CD (1%)	0.0	0.0	2.9	2.9	6.1	2.3	2.9	2.9	4.1	4.0	2.6	2.6	3.8	3.2	2.3	2.3	17.3	50.0	24.2	24.2

Table No. : 36 (Conti...) Shelling %						(Conti...) Shelling %				Gain in Yield (%) over Bio 605							
S. No.	Entry Name	CWZ			All India	CWZ			All India	CWZ						All	
		GODH	UDAI	ZONE		GODH	UDAI	ZONE		GODH		UDAI		ZONE			
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Gain	R	Gain	R	Gain	R	Gain	R
1	ADH 8106	88	79	83	83	33	54	44	44	-13.37	4	26.54	3	10.21	4	10.21	4
2	AH 8127	76	80	78	78	26	60	43	43	-21.24	6	65.88	2	30.23	2	30.23	2
3	Vivek Hybrid 45	87	77	82	82	29	68	48	48	-16.77	5	2.78	5	-5.22	7	-5.22	7
4	Bio 605 (C)	86	75	81	81	30	55	43	43	0	3	0	6	0	6	0	6
5	DKC7074 (C)	78	78	78	78	36	74	55	55	-29.54	7	72.11	1	30.51	1	30.51	1
6	Vivek Hybrid 51 (C)	89	73	81	81	38	67	52	52	62.82	1	-41.9	7	0.95	5	0.95	5
7	DHM 117 (F)	81	76	79	79	34	45	39	39	46.6	2	11.59	4	25.91	3	25.91	3
	L Mean	83.4	77.0	80.2	80.2	32.1	60.3	46.2	46.2								
	CV (%)	0.0	0.0	0.0	0.0	18.0	10.1	12.2	12.2								
	F (Prob)	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0								
	CD (5%)	0.0	0.0	0.0	0.0	10.3	10.9	6.7	6.7								
	CD (1%)	0.0	0.0	0.0	0.0	14.4	15.2	9.1	9.1								

Gain in Yield (%) over DKC 7074									Gain in Yield (%) over V Hybrid 51							
S. No.	Entry Name	CWZ						All India	CWZ						All India	
		GODH		UDAI		ZONE			GODH		UDAI		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	ADH 8106	22.95	4	-26.48	3	-15.56	4	-15.56	4	-46.79	4	117.81	3	9.17	4	9.17	4
2	AH 8127	11.79	6	-3.62	2	-0.22	2	-0.22	2	-51.62	6	185.52	2	29.01	2	29.01	2
3	Vivek Hybrid 45	18.13	5	-40.28	5	-27.38	7	-27.38	7	-48.88	5	76.9	5	-6.11	7	-6.11	7
4	Bio 605 (C)	41.93	3	-41.9	6	-23.38	6	-23.38	6	-38.58	3	72.12	6	-0.94	6	-0.94	6
5	DKC7074 (C)	0	7	0	1	0	1	0	1	-56.73	7	196.24	1	29.29	1	29.29	1
6	Vivek Hybrid 51 (C)	131.09	1	-66.24	7	-22.65	5	-22.65	5	0	1	0	7	0	5	0	5
7	DHM 117 (F)	108.07	2	-35.16	4	-3.53	3	-3.53	3	-9.96	2	92.07	4	24.73	3	24.73	3

Table No. : 37 Trial No. 767 (RF-Normal-Medium Maturity) PZ

Yield Kg/ha

S. No.	Entry Name	PZ KARI Mean	PZ KARI R	PZ VAGA Mean	PZ VAGA R	PZ ZONE Mean	PZ ZONE R	All India Mean	All India R
1	OMH14-27	5832	2	8639	1	8639	1	8639	1
2	Bio 9544 (C)	5340	5	7948	5	7948	5	7948	5
3	CMH 08 292 (C)	6171	1	7476	7	7476	7	7476	7
4	DHM 121 (C)	4335	7	7962	4	7962	4	7962	4
5	DHM117 (F)	4974	6	7872	6	7872	6	7872	6
6	NK 6240 (F)	5816	3	7967	3	7967	3	7967	3
7	CMH 08 287 (F)	5688	4	8233	2	8233	2	8233	2
	Location Mean	5450.8	.	8013.8	.	8013.8	.	8013.8	.
	CV (%)	8.2	.	8.3	.	7.8	.	7.8	.
	F (Prob)	0.0	.	0.6	.	0.5	.	0.5	.
	CD (5%)	799.5	.	1179.3	.	1106.6	.	1106.6	.
	CD (1%)	1120.8	.	1653.2	.	1551.4	.	1551.4	.

Number of Cobs

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	OMH14-27	65	58	61	61
2	Bio 9544 (C)	64	57	61	61
3	CMH 08 292 (C)	65	58	62	62
4	DHM 121 (C)	56	59	58	58
5	DHM117 (F)	64	59	61	61
6	NK 6240 (F)	67	59	63	63
7	CMH 08 287 (F)	63	58	61	61
	Location Mean	63.3	58.2	60.8	60.8
	CV (%)	5.2	1.7	3.9	3.9
	F (Prob)	0.0	0.5	0.0	0.0
	CD (5%)	5.9	1.8	2.8	2.8
	CD (1%)	8.2	2.5	3.8	3.8

Ear Height (cm)

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	OMH14-27	61	116	89	89
2	Bio 9544 (C)	60	106	83	83
3	CMH 08 292 (C)	70	127	99	99
4	DHM 121 (C)	57	108	83	83
5	DHM117 (F)	75	111	93	93
6	NK 6240 (F)	56	113	85	85
7	CMH 08 287 (F)	72	123	97	97
	Location Mean	64.5	114.8	89.6	89.6
	CV (%)	9.5	3.4	5.7	5.7
	F (Prob)	0.0	0.0	0.0	0.0
	CD (5%)	10.9	7.0	6.1	6.1
	CD (1%)	15.3	9.8	8.3	8.3

Final Plant Stand (000/ha)

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	OMH14-27	53	48	51	51
2	Bio 9544 (C)	54	48	51	51
3	CMH 08 292 (C)	54	49	51	51
4	DHM 121 (C)	50	49	49	49
5	DHM117 (F)	53	49	51	51
6	NK 6240 (F)	54	49	52	52
7	CMH 08 287 (F)	51	49	50	50
	Location Mean	52.8	48.7	50.8	50.8
	CV (%)	2.8	1.7	2.4	2.4
	F (Prob)	0.0	0.7	0.1	0.1
	CD (5%)	2.6	1.5	1.4	1.4
	CD (1%)	3.7	2.1	1.9	1.9

Moisture %

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	OMH14-27	16.2	16.0	16.1	16.1
2	Bio 9544 (C)	16.9	15.8	16.3	16.3
3	CMH 08 292 (C)	16.9	16.5	16.7	16.7
4	DHM 121 (C)	17.4	15.1	16.2	16.2
5	DHM117 (F)	17.9	17.7	17.8	17.8
6	NK 6240 (F)	16.4	15.3	15.9	15.9
7	CMH 08 287 (F)	18.2	16.4	17.3	17.3
	Location Mean	17.1	16.1	16.6	16.6
	CV (%)	2.4	6.6	4.7	4.7
	F (Prob)	0.0	0.2	0.0	0.0
	CD (5%)	0.7	1.9	0.9	0.9
	CD (1%)	1.0	2.7	1.3	1.3

Days to 75% Dry husk

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	OMH14-27	97	97	97	97
2	Bio 9544 (C)	97	98	98	98
3	CMH 08 292 (C)	98	97	97	97
4	DHM 121 (C)	100	98	99	99
5	DHM117 (F)	101	98	100	100
6	NK 6240 (F)	98	97	98	98
7	CMH 08 287 (F)	97	98	98	98
	Location Mean	98.3	97.6	98.0	98.0
	CV (%)	1.2	1.1	1.1	1.1
	F (Prob)	0.0	0.7	0.0	0.0
	CD (5%)	2.1	1.8	1.3	1.3
	CD (1%)	3.0	2.5	1.7	1.7

Days to 50% Anthesis

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	OMH14-27	55	53	54	54
2	Bio 9544 (C)	54	53	54	54
3	CMH 08 292 (C)	55	52	54	54
4	DHM 121 (C)	56	53	55	55
5	DHM117 (F)	58	55	57	57
6	NK 6240 (F)	55	53	54	54
7	CMH 08 287 (F)	55	54	54	54
	Location Mean	55.5	53.2	54.4	54.4
	CV (%)	1.6	1.4	1.5	1.5
	F (Prob)	0.0	0.0	0.0	0.0
	CD (5%)	1.6	1.3	1.0	1.0
	CD (1%)	2.2	1.8	1.3	1.3

Days to 50% Silking

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	OMH14-27	57	57	57	57
2	Bio 9544 (C)	56	57	57	57
3	CMH 08 292 (C)	57	56	57	57
4	DHM 121 (C)	59	57	58	58
5	DHM117 (F)	61	58	59	59
6	NK 6240 (F)	57	56	57	57
7	CMH 08 287 (F)	57	57	57	57
	Location Mean	57.7	56.8	57.2	57.2
	CV (%)	1.8	1.7	1.6	1.6
	F (Prob)	0.0	0.3	0.0	0.0
	CD (5%)	1.8	1.7	1.1	1.1
	CD (1%)	2.5	2.4	1.5	1.5

Plant Height (cm)

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	OMH14-27	137	231	184	184
2	Bio 9544 (C)	135	209	172	172
3	CMH 08 292 (C)	153	238	195	195
4	DHM 121 (C)	130	211	170	170
5	DHM117 (F)	163	214	189	189
6	NK 6240 (F)	133	220	177	177
7	CMH 08 287 (F)	161	234	198	198
	Location Mean	144.6	222.3	183.4	183.4
	CV (%)	4.6	3.4	3.9	3.9
	F (Prob)	0.0	0.0	0.0	0.0
	CD (5%)	11.8	13.3	8.4	8.4
	CD (1%)	16.6	18.7	11.4	11.4

Initial Plant Stand

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	OMH14-27	68	60	64	64
2	Bio 9544 (C)	68	59	64	64
3	CMH 08 292 (C)	68	60	64	64
4	DHM 121 (C)	63	60	62	62
5	DHM117 (F)	65	61	63	63
6	NK 6240 (F)	68	61	65	65
7	CMH 08 287 (F)	64	60	62	62
	Location Mean	66.3	60.2	63.3	63.3
	CV (%)	2.1	1.9	2.0	2.0
	F (Prob)	0.0	0.7	0.0	0.0
	CD (5%)	2.4	2.1	1.5	1.5
	CD (1%)	3.4	2.9	2.1	2.1

Shelling %

S. No.	Entry Name	PZ KARI Mean	PZ VAGA Mean	PZ ZONE Mean	All India Mean
1	OMH14-27	81	83	82	82
2	Bio 9544 (C)	81	81	81	81
3	CMH 08 292 (C)	80	81	80	80
4	DHM 121 (C)	78	75	76	76
5	DHM117 (F)	76	75	76	76
6	NK 6240 (F)	80	81	81	81
7	CMH 08 287 (F)	77	78	78	78
	Location Mean	79.0	79.2	79.1	79.1
	CV (%)	1.5	1.2	1.4	1.4
	F (Prob)	0.0	0.0	0.0	0.0
	CD (5%)	2.1	1.7	1.3	1.3
	CD (1%)	2.9	2.4	1.7	1.7

Gain in Yield in (%) over Bio 9544

S. No.	Entry Name	PZ KARI Gain	PZ KARI R	PZ VAGA Gain	PZ VAGA R	PZ ZONE Gain	PZ ZONE R	All India Gain	All India R
1	OMH14-27	9.21	2	8.69	1	8.69	1	8.69	1
2	Bio 9544 (C)	0	5	0	5	0	5	0	5
3	CMH 08 292 (C)	15.56	1	-5.94	7	-5.94	7	-5.94	7
4	DHM 121 (C)	-18.83	7	0.17	4	0.17	4	0.17	4
5	DHM117 (F)	-6.86	6	-0.95	6	-0.95	6	-0.95	6
6	NK 6240 (F)	8.91	3	0.23	3	0.23	3	0.23	3
7	CMH 08 287 (F)	6.51	4	3.58	2	3.58	2	3.58	2

Gain in Yield in (%) over CMH 08 292

S. No.	Entry Name	PZ KARI Gain	PZ KARI R	PZ VAGA Gain	PZ VAGA R	PZ ZONE Gain	PZ ZONE R	All India Gain	All India R
1	OMH14-27	-5.49	2	15.55	1	15.55	1	15.55	1
2	Bio 9544 (C)	-13.5	5	6.32	5	6.32	5	6.32	5
3	CMH 08 292 (C)	0	1	0	7	0	7	0	7
4	DHM 121 (C)	-29.8	7	6.5	4	6.5	4	6.5	4
5	DHM117 (F)	-19.4	6	5.31	6	5.31	6	5.31	6
6	NK 6240 (F)	-5.75	3	6.56	3	6.56	3	6.56	3
7	CMH 08 287 (F)	-7.83	4	10.12	2	10.12	2	10.12	2

Gain in Yield in (%) over DHM 121

S. No.	Entry Name	PZ KARI Gain	PZ KARI R	PZ VAGA Gain	PZ VAGA R	PZ ZONE Gain	PZ ZONE R	All India Gain	All India R
1	OMH14-27	34.55	2	8.5	1	8.5	1	8.5	1
2	Bio 9544 (C)	23.2	5	-0.17	5	-0.17	5	-0.17	5
3	CMH 08 292 (C)	42.37	1	-6.11	7	-6.11	7	-6.11	7
4	DHM 121 (C)	0	7	0	4	0	4	0	4
5	DHM117 (F)	14.75	6	-1.12	6	-1.12	6	-1.12	6
6	NK 6240 (F)	34.18	3	0.06	3	0.06	3	0.06	3
7	CMH 08 287 (F)	31.22	4	3.4	2	3.4	2	3.4	2

Table No. : 38	Trial No. 766 (RF-Normal-Medium Maturity) CWZ Yield Kg/ha								Number of Cobs				Ear Height (cm)				Final Plant Stand (000/ha)				Moisture %			
S. No.	Entry Name	CWZ						All India		CWZ			All India	CWZ			All India	CWZ			All India	CWZ			All India
		GODH		UDAI		ZONE				GODH	UDAI	ZONE		GODH	UDAI	ZONE		GODH	UDAI	ZONE		GODH	UDAI	ZONE	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH1511	3636	2	5736	2	4686	1	4686	1	45	60	52	52	88	112	100	100	50	68	59	59	17.0	20.8	18.9	18.9
2	RCRMH7(ZH138388)	3544	3	4576	5	4060	4	4060	4	32	59	45	45	90	98	94	94	35	68	52	52	15.0	23.4	19.2	19.2
3	VaMH 15036	2476	6	3461	6	2968	6	2968	6	30	58	44	44	68	82	75	75	33	65	49	49	17.2	22.0	19.6	19.6
4	Bio 9544 (C)	2657	5	6490	1	4574	2	4574	2	36	58	47	47	83	85	84	84	42	60	51	51	15.3	23.6	19.5	19.5
5	CMH 08 292 (C)	3640	1	4739	3	4189	3	4189	3	35	59	47	47	83	120	101	101	41	63	52	52	16.0	22.3	19.2	19.2
6	DHM 121 (C)	3234	4	4683	4	3959	5	3959	5	38	52	45	45	70	95	83	83	45	60	52	52	18.0	22.0	20.0	20.0
7	DHM117 (F)	2435	7	2912	7	2673	7	2673	7	28	41	34	34	79	92	85	85	31	53	42	42	14.0	22.1	18.1	18.1
	Location Mean	3088.7	.	4656.7	.	3872.7	.	3872.7	.	34.5	55.3	44.9	44.9	79.8	97.6	88.7	88.7	39.5	62.4	51.0	51.0	16.1	22.3	19.2	19.2
	CV (%)	19.5	.	14.8	.	16.7	.	16.7	.	10.0	11.1	10.5	10.5	6.2	9.3	8.2	8.2	12.5	10.0	11.0	11.0	0.0	0.0	0.0	0.0
	F (Prob)	0.1	.	0.0	.	0.0	.	0.0	.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	1072.1	.	1225.6	.	771.2	.	771.2	.	6.2	10.9	5.6	5.6	8.9	16.1	8.7	8.7	8.8	11.1	6.7	6.7	0.0	0.0	0.0	2.1
	CD (1%)	1502.9	.	1718.1	.	1045.1	.	1045.1	.	8.6	15.3	7.6	7.6	12.4	22.5	11.8	11.8	12.3	15.5	9.1	9.1	0.0	0.0	0.0	2.9

		Days to 75% Dry husk				Days to 50% Anthesis				Days to 50% Silking				Plant Height (cm)				Initial Plant Stand				Shelling %			
S. No.	Entry Name	CWZ			All India	CWZ			All India	CWZ			All India	CWZ			All India	CWZ			All India	CWZ			All India
		GODH	UDAI	ZONE		GODH	UDAI	ZONE		GODH	UDAI	ZONE		GODH	UDAI	ZONE		GODH	UDAI	ZONE		GODH	UDAI	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CAH1511	88	96	92	92	50	52	51	51	53	54	53	53	178	213	195	195	50	70	60	60	85	80	83	83
2	RCRMH7(ZH138388)	90	97	94	94	52	53	53	53	54	55	55	55	168	200	184	184	38	70	54	54	84	78	81	81
3	VaMH 15036	88	96	92	92	50	54	52	52	52	55	54	54	168	175	171	171	35	67	51	51	83	77	80	80
4	Bio 9544 (C)	90	101	95	95	52	54	53	53	54	55	55	55	178	182	180	180	43	62	52	52	80	81	80	80
5	CMH 08 292 (C)	84	96	90	90	51	51	51	51	54	53	54	54	165	220	193	193	43	65	54	54	85	79	82	82
6	DHM 121 (C)	91	96	94	94	49	54	51	51	52	55	54	54	173	195	184	184	45	61	53	53	79	79	79	79
7	DHM117 (F)	90	97	94	94	52	56	54	54	55	58	57	57	165	185	175	175	33	56	44	44	84	75	80	80
	Location Mean	88.6	97.1	92.9	92.9	50.7	53.5	52.1	52.1	53.4	55.1	54.3	54.3	170.4	195.7	183.0	183.0	40.7	64.4	52.6	52.6	82.8	78.3	80.6	80.6
	CV (%)	2.1	2.0	1.9	1.9	1.5	1.9	1.7	1.7	1.3	1.9	1.6	1.6	3.2	3.8	3.5	3.5	10.9	9.8	10.4	10.4	0.0	0.0	0.0	0.0
	F (Prob)	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	3.3	3.5	2.1	2.1	1.3	1.8	1.1	1.1	1.2	1.8	1.0	1.0	9.6	13.1	7.7	7.7	7.9	11.2	6.5	6.5	0.0	0.0	7.7	7.7
	CD (1%)	4.6	4.9	2.9	2.9	1.9	2.6	1.5	1.5	1.7	2.5	1.4	1.4	13.4	18.4	10.4	10.4	11.1	15.7	8.8	8.8	0.0	0.0	10.4	10.4

		Gain inYield (%) over BIO 9544								Gain inYield (%) over CMH 08 292								Gain inYield (%) over DHM 121							
S. No.	Entry Name	CWZ						All India		CWZ						All India		CWZ						All India	
		GODH		UDAI		ZONE				GODH		UDAI		ZONE				GODH		UDAI		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	CAH1511	36.81	2	-11.62	2	2.45	1	2.45	1	-0.12	2	21.03	2	11.84	1	11.84	1	12.41	2	22.47	2	18.36	1	18.36	1
2	RCRMH7(ZH138388)	33.36	3	-29.49	5	-11.23	4	-11.23	4	-2.64	3	-3.45	5	-3.1	4	-3.1	4	9.57	3	-2.29	5	2.55	4	2.55	4
3	VaMH 15036	-6.84	6	-46.67	6	-35.1	6	-35.1	6	-31.99	6	-27	6	-29.15	6	-29.2	6	-23.46	6	-26.1	6	-25.02	6	-25	6
4	Bio 9544 (C)	0	5	0	1	0	2	0	2	-26.99	5	36.94	1	9.17	2	9.17	2	-17.84	5	38.58	1	15.53	2	15.53	2
5	CMH 08 292 (C)	36.98	1	-26.98	3	-8.4	3	-8.4	3	0	1	0	3	0	3	0	3	12.54	1	1.19	3	5.83	3	5.83	3
6	DHM 121 (C)	21.71	4	-27.84	4	-13.44	5	-13.44	5	-11.14	4	-1.18	4	-5.51	5	-5.51	5	0	4	0	4	0	5	0	5
7	DHM117 (F)	-8.38	7	-55.13	7	-41.55	7	-41.55	7	-33.11	7	-38.6	7	-36.19	7	-36.2	7	-24.73	7	-37.8	7	-32.48	7	-32.5	7

Table No. : 39 Trial No. 770 (RF-Normal-Late Maturity) PZ — Yield Kg/ha

S. No.	Entry Name	KARI Mean	KARI R	VAGA Mean	VAGA R	ZONE Mean	ZONE R	All India Mean	All India R
1	CMH 15-005	5746	4	8049	4	6898	4	6898	4
2	Bio 9682 (C)	5589	5	7452	7	6520	6	6520	6
3	CHM 08-282 (C)	6435	1	8017	5	7226	1	7226	1
4	CMH 08-287 (C)	5913	2	8137	2	7025	2	7025	2
5	NK 6240 (C)	5541	6	7786	6	6664	5	6664	5
6	BIO 9544 (F)	5767	3	8204	1	6985	3	6985	3
7	DHM 117 (F)	3366	7	8095	3	5731	7	5731	7
	L Mean	5479.6	.	7963.0	.	6721.3	.	6721.3	.
	CV (%)	7.7	.	7.9	.	7.8	.	7.8	.
	F (Prob)	0.0	.	0.8	.	0.0	.	0.0	.
	CD (5%)	748.8	.	1119.9	.	625.0	.	625.0	.
	CD (1%)	1049.7	.	1570.0	.	847.0	.	847.0	.

Number of Cobs

S. No.	Entry Name	KARI Mean	VAGA Mean	ZONE Mean	All India Mean
1	CMH 15-005	60	58	59	59
2	Bio 9682 (C)	64	58	61	61
3	CHM 08-282 (C)	64	58	61	61
4	CMH 08-287 (C)	62	58	60	60
5	NK 6240 (C)	64	58	61	61
6	BIO 9544 (F)	63	58	60	60
7	DHM 117 (F)	43	58	51	51
	L Mean	60.0	58.0	59.0	59.0
	CV (%)	5.5	1.9	4.1	4.1
	F (Prob)	0.0	1.0	0.0	0.0
	CD (5%)	5.8	2.0	2.9	2.9
	CD (1%)	8.2	2.7	3.9	3.9

Ear Height (cm)

S. No.	Entry Name	KARI Mean	VAGA Mean	ZONE Mean	All India Mean
1	CMH 15-005	81	131	106	106
2	Bio 9682 (C)	63	106	85	85
3	CHM 08-282 (C)	82	129	106	106
4	CMH 08-287 (C)	76	125	101	101
5	NK 6240 (C)	63	115	89	89
6	BIO 9544 (F)	60	102	81	81
7	DHM 117 (F)	70	119	95	95
	L Mean	70.8	118.4	94.6	94.6
	CV (%)	8.9	5.3	6.4	6.4
	F (Prob)	0.0	0.0	0.0	0.0
	CD (5%)	11.2	11.1	7.3	7.3
	CD (1%)	15.7	15.5	9.8	9.8

Final Plant Stand (000/ha)

S. No.	Entry Name	KARI Mean	VAGA Mean	ZONE Mean	All India Mean
1	CMH 15-005	52	48	50	50
2	Bio 9682 (C)	54	48	51	51
3	CHM 08-282 (C)	53	49	51	51
4	CMH 08-287 (C)	53	49	51	51
5	NK 6240 (C)	54	50	52	52
6	BIO 9544 (F)	54	48	51	51
7	DHM 117 (F)	35	48	42	42
	L Mean	50.8	48.7	49.7	49.7
	CV (%)	5.6	1.9	4.2	4.2
	F (Prob)	0.0	0.4	0.0	0.0
	CD (5%)	5.0	1.6	2.5	2.5
	CD (1%)	7.0	2.3	3.4	3.4

Moisture %

S. No.	Entry Name	KARI Mean	VAGA Mean	ZONE Mean	All India Mean
1	CMH 15-005	15.8	16.7	16.3	16.3
2	Bio 9682 (C)	16.7	16.2	16.5	16.5
3	CHM 08-282 (C)	16.3	16.1	16.2	16.2
4	CMH 08-287 (C)	17.2	15.7	16.5	16.5
5	NK 6240 (C)	15.9	16.4	16.1	16.1
6	BIO 9544 (F)	16.0	17.1	16.5	16.5
7	DHM 117 (F)	17.1	16.0	16.6	16.6
	L Mean	16.4	16.3	16.4	16.4
	CV (%)	2.6	3.7	3.2	3.2
	F (Prob)	0.0	0.2	0.7	0.7
	CD (5%)	0.8	1.1	0.6	0.6
	CD (1%)	1.1	1.5	0.8	0.8

Days to 75% Dry husk

S. No.	Entry Name	KARI Mean	VAGA Mean	ZONE Mean	All India Mean
1	CMH 15-005	100	99	100	100
2	Bio 9682 (C)	100	99	99	99
3	CHM 08-282 (C)	90	100	95	95
4	CMH 08-287 (C)	99	98	99	99
5	NK 6240 (C)	99	99	99	99
6	BIO 9544 (F)	99	99	99	99
7	DHM 117 (F)	101	100	100	100
	L Mean	98.2	99.1	98.7	98.7
	CV (%)	1.2	1.0	1.0	1.0
	F (Prob)	0.0	0.5	0.0	0.0
	CD (5%)	2.1	1.7	1.2	1.2
	CD (1%)	3.0	2.3	1.6	1.6

Days to 50% Anthesis

S. No.	Entry Name	KARI Mean	VAGA Mean	ZONE Mean	All India Mean
1	CMH 15-005	58	55	56	56
2	Bio 9682 (C)	57	54	56	56
3	CHM 08-282 (C)	51	55	53	53
4	CMH 08-287 (C)	57	55	56	56
5	NK 6240 (C)	57	55	56	56
6	BIO 9544 (F)	57	54	56	56
7	DHM 117 (F)	58	55	57	57
	L Mean	56.5	54.4	55.5	55.5
	CV (%)	0.7	1.9	1.4	1.4
	F (Prob)	0.0	0.6	0.0	0.0
	CD (5%)	0.7	1.8	0.9	0.9
	CD (1%)	1.0	2.5	1.2	1.2

Days to 50% Silking

S. No.	Entry Name	KARI Mean	VAGA Mean	ZONE Mean	All India Mean
1	CMH 15-005	60	58	59	59
2	Bio 9682 (C)	59	57	58	58
3	CHM 08-282 (C)	53	58	56	56
4	CMH 08-287 (C)	59	58	58	58
5	NK 6240 (C)	59	58	59	59
6	BIO 9544 (F)	59	58	59	59
7	DHM 117 (F)	60	58	59	59
	L Mean	58.5	57.8	58.1	58.1
	CV (%)	0.7	1.6	1.2	1.2
	F (Prob)	0.0	0.7	0.0	0.0
	CD (5%)	0.7	1.6	0.8	0.8
	CD (1%)	1.0	2.3	1.1	1.1

Plant Height (cm)

S. No.	Entry Name	KARI Mean	VAGA Mean	ZONE Mean	All India Mean
1	CMH 15-005	165	238	202	202
2	Bio 9682 (C)	131	198	164	164
3	CHM 08-282 (C)	161	240	200	200
4	CMH 08-287 (C)	164	235	199	199
5	NK 6240 (C)	134	211	173	173
6	BIO 9544 (F)	125	202	164	164
7	DHM 117 (F)	155	222	189	189
	L Mean	147.9	220.8	184.4	184.4
	CV (%)	4.6	4.2	4.4	4.4
	F (Prob)	0.0	0.0	0.0	0.0
	CD (5%)	12.1	16.7	9.7	9.7
	CD (1%)	16.9	23.4	13.2	13.2

Initial Plant Stand

S. No.	Entry Name	KARI Mean	VAGA Mean	ZONE Mean	All India Mean
1	CMH 15-005	64	59	62	62
2	Bio 9682 (C)	68	58	63	63
3	CHM 08-282 (C)	65	60	63	63
4	CMH 08-287 (C)	65	60	62	62
5	NK 6240 (C)	68	61	64	64
6	BIO 9544 (F)	68	59	64	64
7	DHM 117 (F)	45	59	52	52
	L Mean	63.2	59.4	61.3	61.3
	CV (%)	5.4	2.0	4.2	4.2
	F (Prob)	0.0	0.3	0.0	0.0
	CD (5%)	6.1	2.1	3.0	3.0
	CD (1%)	8.5	2.9	4.1	4.1

Shelling %

S. No.	Entry Name	KARI Mean	VAGA Mean	ZONE Mean	All India Mean
1	CMH 15-005	79	78	79	79
2	Bio 9682 (C)	80	79	80	80
3	CHM 08-282 (C)	81	79	80	80
4	CMH 08-287 (C)	80	79	80	80
5	NK 6240 (C)	80	81	81	81
6	BIO 9544 (F)	81	80	81	81
7	DHM 117 (F)	79	77	78	78
	L Mean	80.3	79.2	79.8	79.8
	CV (%)	1.5	1.8	1.7	1.7
	F (Prob)	0.3	0.2	0.0	0.0
	CD (5%)	2.1	2.6	1.6	1.6
	CD (1%)	3.0	3.6	2.2	2.2

Gain in Yield in (%) over Bio 9682

S. No.	Entry Name	KARI Gain	KARI R	VAGA Gain	VAGA R	ZONE Gain	ZONE R	All India Gain	All India R
1	CMH 15-005	2.82	4	8.01	4	5.79	4	5.79	4
2	Bio 9682 (C)	0	5	0	7	0	6	0	6
3	CHM 08-282 (C)	15.14	1	7.58	5	10.82	1	10.82	1
4	CMH 08-287 (C)	5.81	2	9.18	2	7.74	2	7.74	2
5	NK 6240 (C)	-0.84	6	4.48	6	2.2	5	2.2	5
6	BIO 9544 (F)	3.18	3	10.09	1	7.13	3	7.13	3
7	DHM 117 (F)	-39.77	7	8.63	3	-12.11	7	-12.11	7

Gain in Yield in (%) over CMH 08 282

S. No.	Entry Name	KARI Gain	KARI R	VAGA Gain	VAGA R	ZONE Gain	ZONE R	All India Gain	All India R
1	CMH 15-005	-10.71	4	0.4	4	-4.54	4	-4.54	4
2	Bio 9682 (C)	-13.15	5	-7.05	7	-9.77	6	-9.77	6
3	CHM 08-282 (C)	0	1	0	5	0	1	0	1
4	CMH 08-287 (C)	-8.11	2	1.49	2	-2.78	2	-2.78	2
5	NK 6240 (C)	-13.89	6	-2.88	6	-7.78	5	-7.78	5
6	BIO 9544 (F)	-10.39	3	2.33	1	-3.33	3	-3.33	3
7	DHM 117 (F)	-47.69	7	0.97	3	-20.7	7	-20.7	7

Gain in Yield in (%) over CMH 08 287

S. No.	Entry Name	KARI Gain	KARI R	VAGA Gain	VAGA R	ZONE Gain	ZONE R	All India Gain	All India R
1	CMH 15-005	-2.83	4	-1.07	4	-1.81	4	-1.81	4
2	Bio 9682 (C)	-5.49	5	-8.41	7	-7.18	6	-7.18	6
3	CHM 08-282 (C)	8.83	1	-1.47	5	2.86	1	2.86	1
4	CMH 08-287 (C)	0	2	0	2	0	2	0	2
5	NK 6240 (C)	-6.29	6	-4.3	6	-5.14	5	-5.14	5
6	BIO 9544 (F)	-2.48	3	0.83	1	-0.56	3	-0.56	3
7	DHM 117 (F)	-43.07	7	-0.51	3	-18.4	7	-18.4	7

Gain in Yield in (%) over NK 6240

S. No.	Entry Name	KARI Gain	KARI R	VAGA Gain	VAGA R	ZONE Gain	ZONE R	All India Gain	All India R
1	CMH 15-005	3.69	4	3.38	4	3.51	4	3.51	4
2	Bio 9682 (C)	0.85	5	-4.29	7	-2.15	6	-2.15	6
3	CHM 08-282 (C)	16.12	1	2.96	5	8.44	1	8.44	1
4	CMH 08-287 (C)	6.71	2	4.5	2	5.42	2	5.42	2
5	NK 6240 (C)	0	6	0	6	0	5	0	5
6	BIO 9544 (F)	4.06	3	5.37	1	4.82	3	4.82	3
7	DHM 117 (F)	-39.26	7	3.97	3	-14	7	-14	7

Table No. : 40	Trial No. 768(RF-Normal-Late Maturity) CWZ	Yield Kg/ha								Number of Cobs				Ear Height (cm)				Final Plant Stand (000/ha)				Moisture %			
S. No.	Entry Name	CWZ						All India		GODH	UDAI	ZONE	All India	CWZ			All India	CWZ			All India	CWZ			All India
		GODH		UDAI		ZONE																			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	GODH Mean	UDAI Mean	ZONE Mean	India Mean
1	CMH 12 -686	3352	2	6139	1	4745	1	4745	1	35	72	53	53	71	105	88	88	39	76	57	57	17.5	22.7	20.1	20.1
2	CMH 15-005	2846	4	5217	4	4032	4	4032	4	36	56	46	46	65	115	90	90	38	61	49	49	17.2	23.8	20.5	20.5
3	Bio 9682 (C)	3008	3	5642	3	4325	2	4325	2	34	65	49	49	65	93	79	79	40	71	55	55	16.5	21.7	19.1	19.1
4	CHM 08-282 (C)	2508	6	4534	5	3521	6	3521	6	26	55	41	41	68	115	92	92	28	60	44	44	15.9	20.4	18.2	18.2
5	CMH 08-287 (C)	3763	1	4068	6	3915	5	3915	5	37	48	42	42	71	112	91	91	39	52	45	45	14.0	21.6	17.8	17.8
6	NK 6240 (C)	2844	5	5790	2	4317	3	4317	3	35	64	49	49	70	102	86	86	41	72	56	56	16.0	21.6	18.8	18.8
7	DHM 117 (F)	2272	7	2627	7	2450	7	2450	7	29	34	31	31	70	92	81	81	30	43	36	36	16.8	23.1	20.0	20.0
	L Mean	2941.8	.	4859.6	.	3900.7	.	3900.7	.	32.9	56.3	44.6	44.6	68.6	104.8	86.7	86.7	36.1	61.9	49.0	49.0	16.3	22.1	19.2	19.2
	CV (%)	12.7	.	20.6	.	19.0	.	19.0	.	9.4	12.3	12.0	12.0	6.9	12.0	10.7	10.7	9.8	9.8	9.8	9.8	0.0	0.0	0.0	0.0
	F (Prob)	0.0	.	0.0	.	0.0	.	0.0	.	0.0	0.0	0.0	0.0	0.5	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	666.7	.	1783.6	.	882.6	.	882.6	.	5.5	12.3	6.4	6.4	8.4	22.3	11.0	11.0	6.3	10.8	5.7	5.7	0.0	0.0	1.8	1.8
	CD (1%)	934.7	.	2500.5	.	1196.1	.	1196.1	.	7.7	17.3	8.7	8.7	11.8	31.3	15.0	15.0	8.8	15.1	7.8	7.8	0.0	0.0	2.5	2.5

		Days to 75% Dry Husk				Days to 50% Anthesis				Days to 50% Silking				Plant Height (cm)				Initial Plant Stand				Shelling %			
S. No.	Entry Name	CWZ			All India	CWZ			All India	CWZ			All India	CWZ			All India	CWZ			All India	CWZ			All India
		GODH	UDAI	ZONE		GODH	UDAI	ZONE		GODH	UDAI	ZONE		GODH	UDAI	ZONE		GODH	UDAI	ZONE		GODH	UDAI	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	CMH 12 -686	90	100	95	95	53	54	53	53	56	55	55	55	175	217	196	196	40	76	58	58	78	77	78	78
2	CMH 15-005	90	100	95	95	58	54	56	56	61	55	58	58	175	217	196	196	40	63	51	51	85	80	83	83
3	Bio 9682 (C)	94	103	98	98	59	55	57	57	62	56	59	59	178	183	180	180	40	72	56	56	85	80	83	83
4	CHM 08-282 (C)	88	97	92	92	49	52	51	51	52	53	53	53	178	223	200	200	30	62	46	46	79	76	77	77
5	CMH 08-287 (C)	89	100	95	95	51	54	53	53	54	55	55	55	179	217	198	198	42	54	48	48	85	78	82	82
6	NK 6240 (C)	86	100	93	93	55	53	54	54	57	55	56	56	180	187	183	183	44	73	58	58	85	80	83	83
7	DHM 117 (F)	91	102	96	96	53	57	55	55	56	59	57	57	175	197	186	186	33	46	39	39	78	75	77	77
	L Mean	89.5	100.2	94.9	94.9	53.7	54.1	53.9	53.9	56.6	55.4	56.0	56.0	177.0	205.7	191.4	191.4	38.3	63.5	50.9	50.9	82.1	78.1	80.1	80.1
	CV (%)	2.3	0.8	1.6	1.6	9.0	2.0	6.1	6.1	8.5	1.6	5.8	5.8	3.9	4.1	4.0	4.0	9.1	8.7	9.1	9.1	0.0	0.0	0.0	0.0
	F (Prob)	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.1	0.3	0.0	0.1	0.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	3.7	1.3	1.8	1.8	8.6	1.9	3.9	3.9	8.5	1.6	3.9	3.9	12.2	15.1	9.2	9.2	6.2	9.8	5.5	5.5	0.0	0.0	9.2	9.2
	CD (1%)	5.2	1.9	2.5	2.5	12.0	2.7	5.3	5.3	12.0	2.2	5.3	5.3	17.1	21.2	12.5	12.5	8.7	13.8	7.5	7.5	0.0	0.0	12.5	12.5

		Gain in Yield (%) over Bio 9682								Gain in Yield (%) over CMH 08 282								Gain in Yield (%) overCMH 08 287							
S. No.	Entry Name	CWZ						All India		CWZ						All India		CWZ						All India	
		GODH		UDAI		ZONE				GODH		UDAI		ZONE				GODH		UDAI		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	CMH 12 -686	11.43	2	8.81	1	9.72	1	9.72	1	33.63	2	35.41	1	34.78	1	34.78	1	-10.92	2	50.93	1	21.21	1	21.21	1
2	CMH 15-005	-5.37	4	-7.54	4	-6.78	4	-6.78	4	13.48	4	15.07	4	14.5	4	14.5	4	-24.35	4	28.26	4	2.98	4	2.98	4
3	Bio 9682 (C)	0	3	0	3	0	2	0	2	19.93	3	24.45	3	22.84	2	22.84	2	-20.06	3	38.71	3	10.47	2	10.47	2
4	CHM 08-282 (C)	-16.62	6	-19.65	5	-18.59	6	-18.59	6	0	6	0	5	0	6	0	6	-33.34	6	11.46	5	-10.07	6	-10.1	6
5	CMH 08-287 (C)	25.09	1	-27.91	6	-9.48	5	-9.48	5	50.02	1	-10.3	6	11.19	5	11.19	5	0	1	0	6	0	5	0	5
6	NK 6240 (C)	-5.46	5	2.63	2	-0.18	3	-0.18	3	13.38	5	27.72	2	22.61	3	22.61	3	-24.42	5	42.35	2	10.27	3	10.27	3
7	DHM 117 (F)	-24.45	7	-53.44	7	-43.36	7	-43.36	7	-9.4	7	-42.1	7	-30.42	7	-30.4	7	-39.6	7	-35.4	7	-37.43	7	-37.4	7

		Gain in Yield (%) over NK 6240							
S. No.	Entry Name	CWZ						All India	
		GODH		UDAI		ZONE			
		Gain	R	Gain	R	Gain	R	Gain	R
1	CMH 12 -686	17.86	2	6.03	1	9.92	1	9.92	1
2	CMH 15-005	0.09	4	-9.9	4	-6.61	4	-6.61	4
3	Bio 9682 (C)	5.77	3	-2.56	3	0.18	2	0.18	2
4	CHM 08-282 (C)	-11.8	6	-21.7	5	-18.44	6	-18.44	6
5	CMH 08-287 (C)	32.31	1	-29.75	6	-9.31	5	-9.31	5
6	NK 6240 (C)	0	5	0	2	0	3	0	3
7	DHM 117 (F)	-20.09	7	-54.63	7	-43.26	7	-43.26	7

Table No. : 41 **Trial No. 600 (OPV) NHZ** **Yield Kg/ha**

S. No.	Entry Name	NHZ																				All India	
		BAJU		BARA		GOSS		IMPH		KANG		POOC		RAJO		SRIN		VPKA		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	KDM25	6598	6	5658	5	1837	3	9977	5	5756	6	3720	5	6805	8	4998	1	5775	5	5616	7	5616	7
2	KDM26	4722	12	2005	12	327	11	2512	12	4887	12	3205	8	6321	10	4492	11	5098	9	4390	12	4390	12
3	L315	10306	1	8766	1	2452	2	17189	2	7796	1	3139	10	7165	7	4398	12	7038	1	6944	1	6944	1
4	L316	9484	2	7718	2	3228	1	18410	1	7523	2	4027	3	7372	5	4655	9	5962	4	6677	2	6677	2
5	L317	8501	3	3831	9	1325	7	11271	4	5908	4	3148	9	7509	4	4887	4	6008	2	5685	5	5685	5
6	RCM 1-61	8497	4	5843	4	1513	6	6070	7	6282	3	3327	7	6086	11	4846	6	6004	3	5841	3	5841	3
7	RCM1-76	6317	8	6080	3	1581	5	8697	6	5845	5	3927	4	8067	2	4971	2	5581	6	5827	4	5827	4
8	VLQPM composite2	5291	11	5040	6	1602	4	4722	9	4972	11	2981	12	5472	12	4567	10	4857	11	4740	11	4740	11
9	Bajaura Makka (C)	7230	5	3907	8	1303	8	3481	11	5459	8	4566	1	7758	3	4870	5	5541	7	5619	6	5619	6
10	Hemant (C)	5639	10	3467	10	.	.	5634	8	5025	10	3113	11	8075	1	4684	8	4713	12	4960	9	4960	9
11	Vijay (C)	6016	9	4591	7	878	10	3675	10	5138	9	4038	2	7198	6	4927	3	5001	10	5273	8	5273	8
12	Vivek Sankul 35 (C)	6350	7	2481	11	892	9	11496	3	5535	7	3649	6	6563	9	4686	7	5342	8	4944	10	4944	10
	L Mean	7079.4	.	4948.9	.	1539.9	.	8594.4	.	5843.8	.	3569.8	.	7032.5	.	4748.4	.	5576.6	.	5542.8	.	5542.8	.
	CV (%)	5.0	.	17.4	.	46.9	.	56.1	.	14.8	.	28.0	.	20.6	.	7.6	.	13.0	.	15.8	.	15.8	.
	F (Prob)	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.7	.	0.5	.	0.6	.	0.0	.	0.0	.	0.0	.
	CD (5%)	594.3	.	1459.3	.	1229.8	.	8165.5	.	1467.4	.	1691.2	.	2457.0	.	614.5	.	1222.9	.	534.1	.	534.1	.
	CD (1%)	807.7	.	1983.4	.	1677.5	.	11098.4	.	1994.5	.	2298.6	.	3339.4	.	835.2	.	1662.1	.	705.2	.	705.2	.

Table No. : **(Conti...)** **Shelling %**

S. No.	Entry Name	NHZ										All India
		BAJU	BARA	GOSS	IMPH	KANG	POOC	RAJO	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	KDM25	79	77	75	75	78	84	77	79	85	79	79
2	KDM26	84	74	81	86	80	82	77	77	87	81	81
3	L315	79	74	75	76	76	83	77	79	83	78	78
4	L316	79	68	75	76	76	85	78	77	81	77	77
5	L317	79	73	78	79	79	84	75	77	85	79	79
6	RCM 1-61	78	75	76	76	78	82	75	77	83	78	78
7	RCM1-76	85	70	76	76	77	82	79	79	82	78	78
8	VLQPM composite2	77	77	78	77	76	83	73	78	84	78	78
9	Bajaura Makka (C)	84	62	76	73	76	82	78	76	85	77	77
10	Hemant (C)	80	73	.	81	77	83	79	78	83	.	.
11	Vijay (C)	83	76	77	75	77	80	76	79	81	78	78
12	Vivek Sankul 35 (C)	83	66	77	84	76	83	75	79	85	79	79
	L Mean	80.9	72.1	76.8	77.8	77.1	82.5	76.5	78.0	83.7	78.4	78.4
	CV (%)	0.0	8.2	4.4	8.1	1.2	1.5	2.9	1.8	1.0	4.0	4.0
	F (Prob)	0.0	0.1	0.6	0.4	0.0	0.0	0.1	0.2	0.0	0.0	0.0
	CD (5%)	0.0	10.0	5.7	10.7	1.5	2.1	3.8	2.4	1.4	.	.
	CD (1%)	0.0	13.6	7.8	14.5	2.0	2.8	5.2	3.3	1.8	.	.

Table No. : 41 (Conti...) Gain in Yeild (%) over Bajaura Makka

S. No.	Entry Name	NHZ																		All India	
		BAJU		BARA		GOSS		IMPH		KANG		POOC		RAJO		SRIN		VPKA			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	KDM25	-8.75	6	44.8	5	41.06	3	186.6	5	5.43	6	-18.5	5	-12.3	8	2.62	1	4.21	5	-0.06	7
2	KDM26	-34.69	12	-48.69	12	-74.86	11	-27.83	12	-10.5	12	-29.8	8	-18.5	10	-7.77	11	-8	9	-21.9	12
3	L315	42.54	1	124.3	1	88.22	2	393.8	2	42.8	1	-31.3	10	-7.65	7	-9.69	12	27	1	23.58	1
4	L316	31.18	2	97.52	2	147.9	1	428.9	1	37.81	2	-11.8	3	-4.98	5	-4.42	9	7.59	4	18.84	2
5	L317	17.58	3	-1.96	9	1.76	7	223.8	4	8.22	4	-31.1	9	-3.21	4	0.34	4	8.43	2	1.17	5
6	RCM 1-61	17.53	4	49.53	4	16.18	6	74.37	7	15.08	3	-27.1	7	-21.6	11	-0.51	6	8.35	3	3.95	3
7	RCM1-76	-12.63	8	55.61	3	21.34	5	149.9	6	7.07	5	-14	4	3.98	2	2.06	2	0.71	6	3.7	4
8	VLQPM composite2	-26.82	11	28.97	6	22.96	4	35.66	9	-8.92	11	-34.7	12	-29.5	12	-6.23	10	-12.3	11	-15.6	11
9	Bajaura Makka (C)	0	5	0	8	0	8	0	11	0	8	0	1	0	3	0	5	0	7	0	6
10	Hemant (C)	-22	10	-11.27	10	.	.	61.84	8	-7.95	10	-31.8	11	4.09	1	-3.82	8	-14.9	12	-11.7	9
11	Vijay (C)	-16.79	9	17.49	7	-32.58	10	5.59	10	-5.89	9	-11.6	2	-7.22	6	1.17	3	-9.75	10	-6.16	8
12	Vivek Sankul 35 (C)	-12.17	7	-36.51	11	-31.48	9	230.3	3	1.38	7	-20.1	6	-15.4	9	-3.78	7	-3.59	8	-12	10

Gain in Yeild (%) over Hemant

S. No.	Entry Name	NHZ																		All India	
		BAJU		BARA		GOSS		IMPH		KANG		POOC		RAJO		SRIN		VPKA			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	KDM25	16.99	6	63.19	5	77.09	5	14.54	6	19.52	5	-15.7	8	6.69	1	22.5	5	13.23	7	13.23	7
2	KDM26	-16.27	12	-42.18	12	-55.41	12	-2.75	12	2.96	8	-21.7	10	-4.11	11	8.17	9	-11.5	12	-11.5	12
3	L315	82.75	1	152.8	1	205.1	2	55.14	1	0.85	10	-11.3	7	-6.11	12	49.3	1	40.01	1	40.01	1
4	L316	68.18	2	122.6	2	226.8	1	49.72	2	29.37	3	-8.71	5	-0.63	9	26.5	4	34.63	2	34.63	2
5	L317	50.75	3	10.5	9	100.1	4	17.57	4	1.13	9	-7.02	4	4.32	4	27.5	2	14.62	5	14.62	5
6	RCM 1-61	50.68	4	68.52	4	7.74	7	25.02	3	6.89	7	-24.6	11	3.44	6	27.4	3	17.76	3	17.76	3
7	RCM1-76	12.02	8	75.37	3	54.38	6	16.31	5	26.16	4	-0.11	2	6.11	2	18.4	6	17.48	4	17.48	4
8	VLQPM composite2	-6.18	11	45.35	6	-16.18	9	-1.05	11	-4.23	12	-32.2	12	-2.51	10	3.06	11	-4.43	11	-4.43	11
9	Bajaura Makka (C)	28.21	5	12.7	8	-38.21	11	8.64	8	46.7	1	-3.93	3	3.97	5	17.6	7	13.29	6	13.29	6
10	Hemant (C)	0	10	0	10	0	8	0	10	0	11	0	1	0	8	0	12	0	9	0	9
11	Vijay (C)	6.68	9	32.41	7	-34.76	10	2.24	9	29.74	2	-10.9	6	5.18	3	6.1	10	6.31	8	6.31	8
12	Vivek Sankul 35 (C)	12.61	7	-28.44	11	104.1	3	10.14	7	17.23	6	-18.7	9	0.04	7	13.4	8	-0.32	10	-0.32	10

Table No. : 41 (Conti...) Gain in Yeild (%) over Vijay

S. No.	Entry Name	NHZ																		All India	
		BAJU		BARA		GOSS		IMPH		KANG		POOC		RAJO		SRIN		VPKA			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	KDM25	9.66	6	23.24	5	109.2	3	171.5	5	12	6	-7.88	5	-5.45	8	1.43	1	15.5	5	6.5	7
2	KDM26	-21.51	12	-56.3	12	-62.72	11	-31.65	12	-4.88	12	-20.6	8	-12.2	10	-8.84	11	1.94	9	-16.7	12
3	L315	71.3	1	90.94	1	179.2	2	367.7	2	51.7	1	-22.3	10	-0.46	7	-10.7	12	40.7	1	31.69	1
4	L316	57.64	2	68.12	2	267.6	1	400.9	1	46.4	2	-0.29	3	2.42	5	-5.52	9	19.2	4	26.64	2
5	L317	41.3	3	-16.6	9	50.93	7	206.7	4	15	4	-22.1	9	4.32	4	-0.82	4	20.2	2	7.81	5
6	RCM 1-61	41.24	4	27.27	4	72.32	6	65.15	7	22.3	3	-17.6	7	-15.5	11	-1.66	6	20.1	3	10.77	3
7	RCM1-76	5	8	32.44	3	79.97	5	136.6	6	13.8	5	-2.76	4	12.07	2	0.88	2	11.6	6	10.51	4
8	VLQPM composite2	-12.06	11	9.77	6	82.38	4	28.48	9	-3.22	11	-26.2	12	-24	12	-7.32	10	-2.87	11	-10.1	11
9	Bajaura Makka (C)	20.18	5	-14.9	8	48.32	8	-5.29	11	6.26	8	13.07	1	7.78	3	-1.16	5	10.8	7	6.56	6
10	Hemant (C)	-6.27	10	-24.5	10	.	.	53.28	8	-2.19	10	-22.9	11	12.19	1	-4.93	8	-5.75	12	-5.94	9
11	Vijay (C)	0	9	0	7	0	10	0	10	0	9	0	2	0	6	0	3	0	10	0	8
12	Vivek Sankul 35 (C)	5.55	7	-46	11	1.63	9	212.8	3	7.72	7	-9.65	6	-8.82	9	-4.89	7	6.83	8	-6.24	10

Gain in Yeild (%) over Vivek Shankul 35

S. No.	Entry Name	NHZ																		All India	
		BAJU		BARA		GOSS		IMPH		KANG		POOC		RAJO		SRIN		VPKA			
		Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R	Gain	R
1	KDM25	3.9	6	128.1	5	105.9	3	-13.21	5	4	6	1.95	5	3.7	8	6.65	1	8.1	5	13.59	7
2	KDM26	-25.64	12	-19.2	12	-63.31	11	-78.15	12	-11.7	12	-12.2	8	-3.69	10	-4.15	11	-4.57	9	-11.2	12
3	L315	62.29	1	253.3	1	174.7	2	49.52	2	40.9	1	-14	10	9.17	7	-6.14	12	31.7	1	40.46	1
4	L316	49.35	2	211.1	2	261.7	1	60.14	1	35.9	2	10.36	3	12.33	5	-0.66	9	11.6	4	35.07	2
5	L317	33.87	3	54.42	9	48.52	7	-1.95	4	6.75	4	-13.7	9	14.41	4	4.28	4	12.5	2	14.99	5
6	RCM 1-61	33.81	4	135.5	4	69.56	6	-47.2	7	13.5	3	-8.82	7	-7.27	11	3.4	6	12.4	3	18.14	3
7	RCM1-76	-0.52	8	145.1	3	77.09	5	-24.34	6	5.61	5	7.62	4	22.91	2	6.07	2	4.46	6	17.86	4
8	VLQPM composite2	-16.68	11	103.1	6	79.46	4	-58.92	9	-10.2	11	-18.3	12	-16.6	12	-2.55	10	-9.07	11	-4.12	11
9	Bajaura Makka (C)	13.86	5	57.5	8	45.95	8	-69.72	11	-1.36	8	25.14	1	18.21	3	3.93	5	3.73	7	13.66	6
10	Hemant (C)	-11.19	10	39.75	10	.	.	-50.99	8	-9.21	10	-14.7	11	23.05	1	-0.04	8	-11.8	12	0.32	9
11	Vijay (C)	-5.26	9	85.05	7	-1.6	10	-68.03	10	-7.17	9	10.67	2	9.68	6	5.14	3	-6.39	10	6.66	8
12	Vivek Sankul 35 (C)	0	7	0	11	0	9	0	3	0	7	0	6	0	9	0	7	0	8	0	10

Table No. : 41 (Conti...) Number of Cobs

S. No.	Entry Name	NHZ										All India
		BAJU	BARA	GOSS	IMPH	KANG	POOC	RAJO	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	KDM25	39	32	20	22	33	25	67	64	31	39	39
2	KDM26	38	20	6	10	32	27	65	67	31	36	36
3	L315	41	49	23	32	33	26	65	60	34	41	41
4	L316	39	44	24	34	34	28	68	63	33	42	42
5	L317	42	31	16	26	33	27	67	64	34	39	39
6	RCM 1-61	44	44	20	19	33	20	64	69	35	41	41
7	RCM1-76	41	38	18	20	34	25	69	69	31	41	41
8	VLQPM composite2	35	36	20	14	32	25	63	63	31	38	38
9	Bajaura Makka (C)	40	33	14	11	31	21	67	68	32	38	38
10	Hemant (C)	38	28	.	18	33	26	65	64	29	.	.
11	Vijay (C)	36	36	16	13	32	28	65	68	32	39	39
12	Vivek Sankul 35 (C)	39	23	14	33	33	29	63	63	33	37	37
	L Mean	39.4	34.6	17.3	21.0	32.8	25.6	65.6	65.2	32.3	39.3	39.3
	CV (%)	5.3	12.3	26.9	43.7	6.6	15.7	4.9	8.4	7.6	9.5	9.5
	F (Prob)	0.0	0.0	0.0	0.0	0.9	0.3	0.6	0.5	0.3	0.0	0.0
	CD (5%)	3.6	7.2	7.9	15.5	3.7	6.8	5.4	9.3	4.2	.	.
	CD (1%)	4.8	9.8	10.8	21.1	5.0	9.2	7.4	12.7	5.6	.	.

Ear Height (cm)

S. No.	Entry Name	NHZ										All India
		BAJU	BARA	GOSS	IMPH	KANG	POOC	RAJO	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	KDM25	97	99	74	121	117	109	98	87	110	101	101
2	KDM26	98	79	57	102	107	100	100	82	108	93	93
3	L315	112	106	77	115	122	98	103	83	143	107	107
4	L316	110	94	74	114	116	93	98	81	95	97	97
5	L317	105	79	59	105	110	92	101	85	102	93	93
6	RCM 1-61	138	103	71	132	124	110	99	77	143	111	111
7	RCM1-76	128	132	88	123	126	116	100	80	130	114	114
8	VLQPM composite2	77	76	55	96	97	73	98	85	95	84	84
9	Bajaura Makka (C)	111	84	66	115	115	94	100	86	122	99	99
10	Hemant (C)	157	135	.	134	123	122	103	84	155	.	.
11	Vijay (C)	162	128	99	131	129	112	98	82	178	124	124
12	Vivek Sankul 35 (C)	82	69	63	89	101	80	101	85	98	85	85
	L Mean	114.8	98.6	71.2	114.7	115.5	99.8	100.0	83.3	123.3	102.7	102.7
	CV (%)	11.4	11.2	12.2	14.4	7.5	12.2	3.7	4.7	15.5	11.6	11.6
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.2	0.0	0.0	0.0
	CD (5%)	22.2	18.8	14.8	28.0	14.7	20.6	6.2	6.6	32.4	.	.
	CD (1%)	30.2	25.5	20.2	38.1	20.0	27.9	8.4	8.9	44.1	.	.

Final Plant Stand (000/ha)

S. No.	Entry Name	NHZ										All India
		BAJU	BARA	GOSS	IMPH	KANG	POOC	RAJO	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	KDM25	70	78	33	129	76	34	61	61	57	67	67
2	KDM26	68	61	21	122	74	38	59	61	57	63	63
3	L315	73	103	34	138	78	37	59	62	60	72	72
4	L316	70	97	43	131	78	39	61	63	61	71	71
5	L317	74	76	31	133	77	37	61	60	60	68	68
6	RCM 1-61	73	97	34	141	79	27	59	61	60	70	70
7	RCM1-76	71	83	33	122	78	34	63	61	57	67	67
8	VLQPM composite2	60	82	34	130	75	38	57	61	58	66	66
9	Bajaura Makka (C)	71	85	28	130	73	29	60	61	60	66	66
10	Hemant (C)	69	65	.	132	79	37	60	60	56	.	.
11	Vijay (C)	65	90	45	123	74	39	59	63	59	69	69
12	Vivek Sankul 35 (C)	70	64	26	132	77	42	57	62	62	66	66
	L Mean	69.7	81.7	33.0	130.4	76.5	35.8	59.7	61.5	59.0	67.8	67.8
	CV (%)	4.7	13.8	24.4	8.1	5.7	17.0	5.8	2.3	5.4	9.8	9.8
	F (Prob)	0.0	0.0	0.1	0.6	0.8	0.2	0.8	0.6	0.4	0.0	0.0
	CD (5%)	5.5	19.1	13.7	17.9	7.4	10.3	5.8	2.4	5.4	.	.
	CD (1%)	7.5	26.0	18.7	24.4	10.0	14.0	7.9	3.3	7.3	.	.

Moisture %

S. No.	Entry Name	NHZ										All India
		BAJU	BARA	GOSS	IMPH	KANG	POOC	RAJO	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	KDM25	23	28	18	10	32	21	21	18	20	23	23
2	KDM26	23	28	17	15	32	20	22	19	18	22	22
3	L315	22	32	18	16	32	23	20	19	22	24	24
4	L316	23	28	18	14	33	20	23	17	22	23	23
5	L317	22	28	18	12	30	22	20	17	21	22	22
6	RCM 1-61	23	27	18	15	30	21	22	17	20	22	22
7	RCM1-76	23	29	18	14	32	21	21	18	21	23	23
8	VLQPM composite2	23	29	15	12	33	22	22	19	20	23	23
9	Bajaura Makka (C)	23	27	18	19	32	22	21	18	20	22	22
10	Hemant (C)	23	27	.	20	32	21	20	17	19	.	.
11	Vijay (C)	22	28	18	12	32	21	20	17	19	22	22
12	Vivek Sankul 35 (C)	22	26	18	11	30	21	21	18	21	22	22
	L Mean	22.6	28.2	17.4	14.0	31.7	21.0	20.9	17.9	20.4	22.6	22.6
	CV (%)	1.4	5.5	8.5	33.0	4.7	5.1	5.8	10.5	7.3	6.1	6.1
	F (Prob)	0.0	0.0	0.6	0.3	0.3	0.1	0.1	0.8	0.1	0.0	0.0
	CD (5%)	0.5	2.6	2.5	7.8	2.5	1.8	2.1	3.2	2.5	.	.
	CD (1%)	0.7	3.6	3.4	10.6	3.5	2.5	2.8	4.3	3.4	.	.

Table No. : 41 (Conti...) Days to 75% Dry husk

S. No.	Entry Name	NHZ										All India
		BAJU	BARA	GOSS	IMPH	KANG	POOC	RAJO	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	KDM25	95	90	91	87	91	112	93	124	101	98	98
2	KDM26	93	80	92	85	87	111	96	123	93	96	96
3	L315	96	94	94	93	95	112	94	127	105	101	101
4	L316	95	93	94	90	93	113	95	123	102	100	100
5	L317	94	84	92	86	89	111	93	122	97	96	96
6	RCM 1-61	95	91	93	89	91	111	96	123	99	99	99
7	RCM1-76	95	94	93	90	93	112	95	127	96	99	99
8	VLQPM composite2	93	85	92	79	86	109	95	125	94	95	95
9	Bajaura Makka (C)	94	89	92	86	89	111	97	122	96	97	97
10	Hemant (C)	95	91	.	89	92	110	94	126	99	.	.
11	Vijay (C)	95	92	91	90	91	111	96	126	99	99	99
12	Vivek Sankul 35 (C)	93	83	92	80	84	110	95	123	92	95	95
	L Mean	94.4	88.9	92.3	87.1	90.1	111.1	94.9	124.3	97.7	97.9	97.9
	CV (%)	0.8	1.0	1.4	4.4	1.3	1.0	2.0	1.7	3.5	2.2	2.2
	F (Prob)	0.0	0.0	0.1	0.0	0.0	0.0	0.4	0.1	0.0	0.0	0.0
	CD (5%)	1.3	1.5	2.2	6.5	2.0	1.8	3.2	3.5	5.8	.	.
	CD (1%)	1.7	2.0	2.9	8.8	2.7	2.4	4.4	4.7	7.9	.	.

Days to 50% Anthesis

S. No.	Entry Name	NHZ										All India
		BAJU	BARA	GOSS	IMPH	KANG	POOC	RAJO	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	KDM25	58	52	53	52	52	59	51	70	60	56	56
2	KDM26	53	51	58	46	49	56	51	71	53	54	54
3	L315	57	57	53	54	56	62	49	71	60	58	58
4	L316	59	57	54	52	54	57	49	72	59	57	57
5	L317	56	51	54	49	50	58	49	71	54	55	55
6	RCM 1-61	61	55	55	53	52	61	51	71	57	57	57
7	RCM1-76	60	57	55	52	54	62	50	72	59	58	58
8	VLQPM composite2	53	47	52	44	47	56	51	76	52	53	53
9	Bajaura Makka (C)	57	52	55	49	51	58	50	73	55	56	56
10	Hemant (C)	61	53	.	52	53	56	49	71	57	.	.
11	Vijay (C)	60	55	55	51	53	60	52	70	60	57	57
12	Vivek Sankul 35 (C)	54	47	53	44	45	56	49	73	50	52	52
	L Mean	57.4	52.8	54.3	49.9	51.5	58.4	50.0	71.7	56.3	55.8	55.8
	CV (%)	1.9	0.7	2.8	3.9	2.1	4.2	2.5	4.0	2.5	3.1	3.1
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.0	0.0	0.0
	CD (5%)	1.9	0.7	2.6	3.3	1.8	4.2	2.1	4.8	2.4	.	.
	CD (1%)	2.5	0.9	3.5	4.5	2.4	5.6	2.8	6.5	3.2	.	.

Days to 50% Silking

S. No.	Entry Name	NHZ										All India
		BAJU	BARA	GOSS	IMPH	KANG	POOC	RAJO	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	KDM25	60	56	56	56	56	62	53	74	59	59	59
2	KDM26	56	56	63	52	52	61	53	74	54	58	58
3	L315	60	61	57	56	59	65	52	74	61	61	61
4	L316	62	61	57	55	57	60	52	74	61	60	60
5	L317	59	55	58	52	53	62	51	74	55	58	58
6	RCM 1-61	63	59	59	54	56	63	50	74	58	59	59
7	RCM1-76	62	61	58	55	58	65	52	75	61	61	61
8	VLQPM composite2	56	51	56	46	51	59	53	79	52	56	56
9	Bajaura Makka (C)	60	56	58	52	54	61	52	76	57	58	58
10	Hemant (C)	63	57	.	56	57	59	51	74	59	.	.
11	Vijay (C)	62	59	60	57	57	62	54	74	61	61	61
12	Vivek Sankul 35 (C)	56	51	57	47	49	58	51	76	51	55	55
	L Mean	59.8	56.9	58.0	53.1	54.8	61.4	51.9	74.7	57.6	58.7	58.7
	CV (%)	1.9	1.0	3.3	4.9	1.8	3.6	3.9	3.5	2.5	3.2	3.2
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	0.0	0.0	0.0
	CD (5%)	1.9	0.9	3.2	4.4	1.7	3.7	3.4	4.5	2.5	.	.
	CD (1%)	2.6	1.3	4.4	5.9	2.3	5.1	4.7	6.1	3.4	.	.

Plant Height (cm)

S. No.	Entry Name	NHZ										All India
		BAJU	BARA	GOSS	IMPH	KANG	POOC	RAJO	SRIN	VPKA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	KDM25	203	194	196	265	233	247	194	180	230	216	216
2	KDM26	205	178	171	251	217	250	197	167	242	209	209
3	L315	238	198	200	251	244	235	202	173	263	223	223
4	L316	210	187	201	271	232	246	194	184	215	215	215
5	L317	198	169	166	245	222	216	191	172	212	199	199
6	RCM 1-61	260	205	187	267	246	254	196	177	265	229	229
7	RCM1-76	257	224	217	256	251	260	202	160	255	231	231
8	VLQPM composite2	164	164	168	241	198	206	193	175	203	190	190
9	Bajaura Makka (C)	210	174	188	269	230	240	190	175	260	215	215
10	Hemant (C)	265	232	.	289	246	272	204	175	280	.	.
11	Vijay (C)	277	230	212	261	257	255	191	165	290	238	238
12	Vivek Sankul 35 (C)	168	160	166	235	203	225	201	178	212	194	194
	L Mean	221.3	193.1	188.4	258.6	231.6	242.3	196.3	173.4	243.9	216.8	216.8
	CV (%)	8.7	5.7	8.5	12.1	7.2	8.3	4.7	5.8	6.2	8.2	8.2
	F (Prob)	0.0	0.0	0.0	0.7	0.0	0.0	0.6	0.3	0.0	0.0	0.0
	CD (5%)	32.6	18.6	27.1	53.1	28.0	34.2	15.8	17.0	25.6	.	.
	CD (1%)	44.4	25.3	37.0	72.2	38.1	46.5	21.4	23.1	34.8	.	.

Tested Entries Detail

S. No.	Entry Name	NAME OF COMPANY	PRIVATE / PUBLIC	S. No.	Entry Name	NAME OF COMPANY	PRIVATE / PUBLIC	S. No.	Entry Name	NAME OF COMPANY	PRIVATE / PUBLIC
NIVT Early Maturity				**NIVT Medium Maturity**				**NIVT Medium Maturity**			
1	LMH 1946	HPKV, BAJAURA	PUBLIC	1	IIMWH 1901	IIMR, Ludhiana	PUBLIC	29	JKMH 1481	JK SEEDS	PRIVATE
2	KMH 18-13	HPKV, KANGRA	PUBLIC	2	IMHVS-101	IIMR, Ludhiana	PUBLIC	30	ADV 7745	UPL	PRIVATE
3	KMH 18-15	HPKV, KANGRA	PUBLIC	3	IAMH2016-2	IGKV,AMBIKAPUR	PUBLIC	31	PM 19101 M	POINEER	PRIVATE
4	JH 32006	PAU, LUDHIANA	PUBLIC	4	IAMH 2016-38	IGKV, AMBIKAPUR	PUBLIC	32	PM 19102 M	POINEER	PRIVATE
5	JH 32328	PAU, LUDHIANA	PUBLIC	5	IMHSB-19K-2	IIMR RS, BEGUSARAI	PUBLIC	33	PM 19103 M	POINEER	PRIVATE
6	JH 32375	PAU, LUDHIANA	PUBLIC	6	IMHSB-19K-3	IIMR RS, BEGUSARAI	PUBLIC	34	HM 19203	METAHELIX	PRIVATE
7	JH 32385	PAU, LUDHIANA	PUBLIC	7	IMHSB-19K-4	IIMR RS, BEGUSARAI	PUBLIC	35	HM 19305	METAHELIX	PRIVATE
8	JH 32391	PAU, LUDHIANA	PUBLIC	8	IMHSB-19K-5	IIMR RS, BEGUSARAI	PUBLIC	36	SVMH-1130	SHAKTI VARDHAK	PRIVATE
9	FH 3912	VPKAS, ALMORA	PUBLIC	9	IMHSB-19K-6	IIMR RS, BEGUSARAI	PUBLIC	37	KSP-5391	KALASH SEEDS	PRIVATE
10	BYMH-13-5	AAU, BHILODA	PUBLIC	10	IMHSB-19K-7	IIMR RS, BEGUSARAI	PUBLIC	38	GGMH-114	GRREN GOLD SEEDS	PRIVATE
11	EH 3524	MPUAT, UDAIPUR	PUBLIC	11	IMHSB-19K-8	IIMR RS, BEGUSARAI	PUBLIC	39	SYN-916248	SYNGENTA	PRIVATE
12	EH 3571	MPUAT, UDAIPUR	PUBLIC	12	IMHSB-19K-9	IIMR RS, BEGUSARAI	PUBLIC	40	RCRMH4-1	UAS, RAICHUR	PUBLIC
13	DH 330	GBPUAT, PANTHNAGAR	PUBLIC	13	IMHSB-19K-10	IIMR RS, BEGUSARAI	PUBLIC	41	LMH 4119	HPKV, BAJAURA	PUBLIC
14	KNMH 4193	PJTSAU, KARIMNAGAR	PUBLIC	14	IMHSB-19K-11	IIMR RS, BEGUSARAI	PUBLIC	42	LMH 4319	HPKV, BAJAURA	PUBLIC
15	DH 321	GBPUAT, PANTHNAGAR	PUBLIC	15	HKH-371	CCSHAU,KARNAK	PUBLIC	43	LMH 4419	HPKV, BAJAURA	PUBLIC
16	DH 329	GBPUAT, PANTHNAGAR	PUBLIC	16	HKH-372	CCSHAU,KARNAL	PUBLIC	44	LMH 4219	BHPKV,AJAURA	PUBLIC
17	AH 8622	IARI, DHARWARD	PUBLIC	17	MH 1945	RAU,DHOLI	PUBLIC	45	KMH 18-42	HPKV, KANGRA	PUBLIC
18	AH 8323	IARI, DHARWARD	PUBLIC	18	MH 1941	RAU,DHOLI	PUBLIC	46	KMH 18-71	HPKV,KANGRA	PUBLIC
19	AH 8178	IARI, DHARWARD	PUBLIC	19	MH 1948	RAU,DHOLI	PUBLIC	47	JH 18064	IIMR, LUDHIANA	PUBLIC
20	AH1608	IARI, New Delhi	PUBLIC	20	NMH 4144	NUZIVEEDU	PRIVATE	48	JH 18065	IIMR, LUDHIANA	PUBLIC
21	VEH18-1	BHU,VARANASI	PUBLIC	21	DKC 8205	MONSANTO	PRIVATE	49	JH 18099	IIMR, LUDHIANA	PUBLIC
22	BAU-MH-18-1	BAU, RANCHI	PUBLIC	22	DKC 8209	MONSANTO	PRIVATE	50	JH 32104	IIMR, LUDHIANA	PUBLIC
23	AH3254	IARI, New Delhi	PUBLIC	23	KH 518	KANCHANA GANGA	PRIVATE	51	HMM 1014	JNKVV, CHINDWARA	PUBLIC
24	HKH 370	CCSHAU, KARNAL	PUBLIC	24	GK 3207	GANGA KAVERI	PRIVATE	52	HMM 1019	JNKVV, CHINDWARA	PUBLIC
25	IMHSB-19K-1	IIMR RS, Begusarai	PUBLIC	25	SYN916701	SYNGENTA	PRIVATE	53	CMH-15-012	TNAU,COIMBATORE	PUBLIC
26	DKC 7204	MONSANTO	PRIVATE	26	SYN916540	SYNGENTA	PRIVATE	54	CMH-12-686	TNAU, COIMBATORE	PUBLIC
27	KH 102E	KANCHANA GANGA	PRIVATE	27	HT 519015	HY TECH SEED	PRIVATE	55	EH 3638	MPUAT,UDAIPUR	PUBLIC
28	Rasi 50252	RASI SEEDS	PRIVATE	28	TS 2609	TIERRA	PRIVATE	56	KNMH 4191	PJTSAU, KARIMNAGAR	PUBLIC

S. No.	Entry Name	NAME OF COMPANY	PRIVATE / PUBLIC
	NIVT Medium Maturity		
57	KNMH 4192	PJTSAU, KARIMNAGAR	PUBLIC
58	KNMH 4194	PJTSAU, KARIMNAGAR	PUBLIC
59	RCRMH 13	UAS, RAICHUR	PUBLIC
60	RCRMH 14	UAS, RAICHUR	PUBLIC
61	DH 327	GBPUAT, PANTHNAGAR	PUBLIC
62	DH 328	GBPUAT,PANTHNAGAR	PUBLIC
63	IWH 1407	AAU, GODHRA	PUBLIC
64	IYH 1603	AAU, GODHRA	PUBLIC
65	VaMH 16008	TNAU, VAGARAI	PUBLIC
66	AH 8452	IARI, DHARWARD	PUBLIC
67	AH 8245 R	IARI, DHARWARD	PUBLIC
68	BH 417182	PJTSAU, HYDERABAD	PUBLIC
69	BH 417152	PJTSAU, HYDERABAD	PUBLIC
70	BH 417193	PJTSAU, HYDERABAD	PUBLIC
71	AH1625	IARI, NEW DELHI	PUBLIC
72	AH1634	IARI, NEW DELHI	PUBLIC
73	AH4142	IARI, NEW DELHI	PUBLIC
74	AH4167	IARI, NEW DELHI	PUBLIC
75	OMH17-19	OUAT, BHUWANESHWAR	PUBLIC
76	OMH17-24	OUAT, BHUWANESHWAR	PUBLIC
77	BAU-MH-18-2	BAU RANCHI	PUBLIC
78	BAU-MH-18-3	BAU RANCHI	PUBLIC
79	IMHL-K-19-1	IIMR, LUDHIANA	PUBLIC

S. No.	Entry Name	NAME OF COMPANY	PRIVATE / PUBLIC
	NIVT Late Maturity		
1	NMH 4313	NUZIVEEDU	PRIVATE
2	MM2424	MAHINDRA AGRI	PRIVATE
3	DKC 9207	MONSANTO	PRIVATE
4	KH 2193	KANCHAN GANGA	PRIVATE
5	KH 5146	KANCHAN GANGA	PRIVATE
6	GK 3218	GANGA KAVERI	PRIVATE
7	SYN916801	SYNGENTA	PRIVATE
9	SBMH 1817	SAI BHAVYA	PRIVATE
10	HT 519074	HY TECH SEED	PRIVATE
11	TMMH 853	TRIMURTI	PRIVATE
12	PM 19104L	POINEER	PRIVATE
13	PM 19105 L	POINEER	PRIVATE
14	PM 19106 L	POINEER	PRIVATE
15	PM 19107 L	POINEER	PRIVATE
16	PM 19108 L	POINEER	PRIVATE
17	PM 19109 L	POINEER	PRIVATE
18	PM 19110 L	POINEER	PRIVATE
19	PM 19111 L	POINEER	PRIVATE
20	VNR4343	VNR SEEDS	PRIVATE
21	VNR37650	VNR SEEDS	PRIVATE
22	ADV7713	UPL	PRIVATE
23	IM12723	BISCO BIOSCIENCE	PRIVATE
24	SVMH 1627	SHAKTI VARDHAK	PRIVATE
25	KMH-8322	KAVERI SEEDS	PRIVATE
26	KMH-8333	KAVERI SEEDS	PRIVATE
27	Rasi 6597	RASI SEEDS	PRIVATE
28	Rasi 70574	RASI SEEDS	PRIVATE
29	CP 802	CP SEEDS	PRIVATE
30	CP 555	CP SEEDS	PRIVATE
31	JH 17011	PAU, LUDHIANA	PUBLIC
32	JH 18056	PAU, LUDHIANA	PUBLIC
33	JH 18057	PAU, LUDHIANA	PUBLIC
34	JH 18087	PAU, LUDHIANA	PUBLIC
35	JH 18088	PAU, LUDHIANA	PUBLIC
36	JH 18091	PAU, LUDHIANA	PUBLIC
37	HMM 1018	JNKVV, CHINDWARA	PUBLIC
38	CMH-15-006	TNAU, COIMBATORE	PUBLIC
39	CMH-15-008	TNAU,COIMBATORE	PUBLIC
40	AH 8072	IARI,DHARWARD	PUBLIC
41	AH 8753	IARI,DHARWARD	PUBLIC
42	BH 417202	PJTSAU, HYDERABAD	PUBLIC
43	AH5158	IARI,NEW DELHI	PUBLIC

S. No.	Entry Name	NAME OF COMPANY	PRIVATE / PUBLIC
	NIVT Late Maturity		
44	AH1645	IARI, NEW DELHI	PUBLIC
45	AH4139	IARI, NEW DELHI	PUBLIC
46	QMH-1604	MPKV,KOLHAPUR	PUBLIC
47	QMH-1617	MPKV,KOLHAPUR	PUBLIC
48	QMH-16101	MPKV,KOLHAPUR	PUBLIC
49	QMH-1697	MPKV, KOLHAPUR	PUBLIC
50	GH16352	UAS, DHARWARD	PUBLIC
51	AH4272	IARI, NEW DELHI	PUBLIC
52	IMHSB-19K-12	IIMR RS, BEGUSARAI	PUBLIC
53	IMHSB-19K-13	IIMR RS, BEGUSARAI	PUBLIC
54	IMHSB-19K-14	IIMR RS, BEGUSARAI	PUBLIC
55	IMHVS-102	IIMR, LUDHIANA	PUBLIC
56	BRMH 17068	VRBC, Karnatka Seed co.	PUBLIC

S. No.	Entry Name	NAME OF COMPANY	PRIVATE / PUBLIC
AVT-I-Early			
1	JH 32094	PAU,LUDHIANA	PUBLIC
2	JH 31950	PAU,LUDHIANA	PUBLIC
3	JH 32056	PAU,LUDHIANA	PUBLIC
4	JH 32057	PAU,LUDHIANA	PUBLIC
5	JH 32014	PAU,LUDHIANA	PUBLIC
6	FH 3879	VPKAS,ALMORA	PUBLIC
7	FH 3861	VPKAS,ALMORA	PUBLIC
8	AH 8181	IARI,DHARWARD	PUBLIC
S. No.	**Entry Name**	**NAME OF COMPANY**	**PRIVATE / PUBLIC**
AVT-I-Medium			
9	KNMH 4181	PJTSAU, KARIMNAGAR	PUBLIC
10	RCRMH 7	UAS, RAICHUR	PUBLIC
11	AH 7067R	IARI, DHARWARD	PUBLIC
12	BH 416032	PJTSAU, HYDERABAD	PUBLIC
13	AH4271	IARI,NEW DELHI	PUBLIC
14	OMH 17-47	OUAT,BHUBANESHWAR	PUBLIC
15	CAH 1511	AAU, GODHRA	PUBLIC
16	ZH 161032	AA U,GODHRA	PUBLIC
17	BH416215	PJTSAU,HYDERABAD	PUBLIC
18	IMHBG-17 K-17	IIMR RS, BEGUSARAI	PUBLIC
19	DKC 9194	MONSANTO	PRIVATE
20	DKC 9198	MONSANTO	PRIVATE
21	INDAM 1118	INDO-AMERICAN	PRIVATE
22	SYN816604	SYNGENTA	PRIVATE
23	HT 18607	HY TECH SEED	PRIVATE
24	JKMH 15303	JK SEEDS	PRIVATE
25	JKMH1518	JK SEEDS	PRIVATE
26	PM 18107 M	POINEER	PRIVATE
27	MM9309	METAHELIX	PRIVATE
28	DKC 9190	MONSANTO	PRIVATE
29	TUFAN	STAR AGROTECH	PRIVATE
30	KMH 004	KAVERI	PRIVATE
31	LMH 3417	HPKV, BAJAURA	PUBLIC
32	LMH 1016	HPKV, BAJAURA	PUBLIC

S. No.	Entry Name	NAME OF COMPANY	PRIVATE / PUBLIC
AVT-I-Late			
1	JH 16224	PAU, LUDHIANA	PUBLIC
2	JH 17026	PAU, LUDHIANA	PUBLIC
3	SYN816514	SYGENTA	PRIVATE
4	TS 2505	TIERRA	PRIVATE
5	JKMH 150375	JK SEEDS	PRIVATE
6	ADV 7132	UPL	PRIVATE
7	PM 18101 L	POINEER	PRIVATE
8	PM 18104 L	POINEER	PRIVATE
9	PM 18105 L	POINEER	PRIVATE
10	PM 18106 L	POINEER	PRIVATE
11	BLH 137	BISCO BIOSCIENCE	PRIVATE
12	KMH 005	KAVERI	PRIVATE
13	Rasi 4992	RASI SEEDS	PRIVATE
14	Bio 534	BIOSEEDS	PRIVATE
S. No.	**Entry Name**	**NAME OF COMPANY**	**PRIVATE / PUBLIC**
AVT-II-Early			
1	JH 31947	PAU, LUDHIANA	PUBLIC
S. No.	**Entry Name**	**NAME OF COMPANY**	**PRIVATE / PUBLIC**
AVT-II-Medium			
1	KMH 16-29	HPKV, KANGRA	PUBLIC
2	JH 16045	PAU, LUDHIANA	PUBLIC
3	DKC 8181	MONSANTO	PUBLIC
4	RCRMH 2	UAS, RAICHUR	PUBLIC
5	IMHBG-17K-15	IIMR RS, BEGUSARAI	PUBLIC
6	NMH 4053	NUZIVEEDU	PRIVATE
7	INDAM 1122	INDO AMERICAN	PRIVATE
8	BLH 118	BISCO BIOSCIENCE	PRIVATE
9	PM 17102 M	POINEER	PRIVATE
S. No.	**Entry Name**	**NAME OF COMPANY**	**PRIVATE / PUBLIC**
AVT-II-Late			
1	JH 16041	PAU, LUDHIANA	PUBLIC
2	JH 16081	PAU, LUDHIANA	PUBLIC

S. No.	Entry Name	NAME OF COMPANY	PRIVATE / PUBLIC
AVT-II-Late			
3	HT 17169	HY TECH SEED	PRIVATE
4	SUPER 1818	SUPER SEEDS	PRIVATE
5	B57	KANCHANA GANGA	PRIVATE
6	ADV 1390064	UPL	PRIVATE
7	ADV 1390164	UPL	PRIVATE
8	KMH 463	KAVERI SEEDS	PRIVATE
9	Rasi 3499	RASI SEEDS	PRIVATE
10	CP 858	CP SEEDS	PRIVATE
11	Bio 218	BIOSEEDS	PRIVATE

S. No.	Entry Name	NAME OF COMPANY	Testing Stage	PRIVATE / PUBLIC
	QPM-I-II-III			
1	FQH140	VPKAS, Almora	QPM-I	PUBLIC
2	FQH160	VPKAS, Almora	QPM-I	PUBLIC
3	FQH 148	VPKAS, Almora	QPM-II	PUBLIC
4	FQH165	VPKAS, Almora	QPM-I	PUBLIC
5	LQPMH 119	HPKV, Bajaura	QPM-I	PUBLIC
6	LQPMH 219	HPKV, Bajaura	QPM-I	PUBLIC
7	LQPMH 319	HPKV, Bajaura	QPM-I	PUBLIC
8	LQPMH118	HPKV, Bajaura	QPM-II	PUBLIC
9	SQPMH2	SKAUST, Srinagar	QPM-I	PUBLIC
10	APH1 (Pro vit. A)	IARI, New Delhi	QPM-III	PUBLIC
11	APQH1 (QPM+Pro A)	IARI, New Delhi	QPM-III	PUBLIC
12	APH 2 (PROA)	IARI, New Delhi	QPM-II	PUBLIC
13	APQH 8 (QPM+PROA)	IARI, New Delhi	QPM-III	PUBLIC
14	APH3 (PROA)	IARI, New Delhi	QPM-I	PUBLIC
15	IIMRQPMH 1705	IIMR, Ludhiana	QPM-III	PUBLIC
16	IIMRQPMH 1708	IIMR, Ludhiana	QPM-III	PUBLIC
17	IQPMH-18-2	IIMR, Ludhiana	QPM-II	PUBLIC
18	IQPMH-18-4	IIMR, Ludhiana	QPM-II	PUBLIC
19	IQPMH-19-1	IIMR, Ludhiana	QPM-I	PUBLIC
20	IQPMH-19-2	IIMR, Ludhiana	QPM-I	PUBLIC
21	IQPMH-19-3	IIMR, Ludhiana	QPM-I	PUBLIC
22	IQPMH-19-4	IIMR, Ludhiana	QPM-I	PUBLIC
23	QPM MH-51	DRPCAU, Dholi	QPM-II	PUBLIC
24	VEHQ 16-1	BHU, Varanasi	QPM-III	PUBLIC
S. No.	**Entry Name**	**NAME OF COMPANY**	**Testing Stage**	**PRIVATE / PUBLIC**
	Baby Corn-I-II-III			
1	LMH 3517	HPKV,BAJAURA	BC-II	PUBLIC
2	DBCH 326	PANTHNAGAR	BC-I	PUBLIC
3	ABHS4-1	IARI, NEW DELHI	BC-I	PUBLIC
4	ABHS4-2	IARI, NEW DELHI	BC-I	PUBLIC
5	AH 7043	IARI, DHARWARD	BC-1	PUBLIC
6	AH 5021	IARI, DHARWARD	BC-III	PUBLIC

S. No.	Entry Name	NAME OF COMPANY	Testing Stage	PRIVATE / PUBLIC
	Baby Corn-I-II-III			
7	AH 7204	IARI, DHARWARD	BC-II	PUBLIC
8	AH 7188	IARI, DHARWARD	BC-II	PUBLIC
9	AHB 7985	IARI, DHARWARD	BC-I	PUBLIC
10	BAU BCH 18-1	BAU RANCHI	BC-I	PUBLIC
11	IMHSB-19KB-1	IIMR, RS, Begusarai	BC-I	PUBLIC
12	IMHSB-19KB-2	IIMR, RS, Begusarai	BC-1	PUBLIC
13	PAC 321	UPL	BC-III	PRIVATE
S. No.	**Entry Name**	**NAME OF COMPANY**	**Testing Stage**	**PRIVATE / PUBLIC**
	Sweet Corn-I-II-III			
1	ISCH 0913	AAU, GODHRA	SC-I	PUBLIC
2	BSCH 417006	PJTSAU, HYDERABAD	SC-I	PUBLIC
3	BSCH 417139	PJTSAU, HYDERABAD	SC-I	PUBLIC
4	NUZI 260	NUZIVEDU	SC-III	PRIVATE
5	NUZI 205	NUZIVEDU	SC-III	PRIVATE
6	CP.SC-301	CP SEEDS	SC-I	PRIVATE
7	CP.SWEET 2	CP SEEDS	SC-I	PRIVATE
8	SWEET PURPLE	CHAITAI	SC-III	PRIVATE
9	TOP SWEET	CHAITAI	SC-III	PRIVATE
10	SUPER SWEET	CHAITAI	SC-I	PRIVATE
11	ISCH 1901	IIMR, LUDHIANA	SC-I	PUBLIC
S. No.	**Entry Name**	**NAME OF COMPANY**	**Testing Stage**	**PRIVATE / PUBLIC**
	Pop Corn-I-II-III			
1	APCH3	IARI New Delhi	PC-II	PUBLIC
2	LPCH 119	Bajaura	PC-II	PUBLIC
3	LPCH219	Bajaura	PC-II	PUBLIC

S. No.	Entry Name	NAME OF COMPANY	Testing Stage	PRIVATE / PUBLIC
OPV				
1	VLQPM composite2	Almora	OPV-I	PUBLIC
2	KDM25	SKAUST, Srinagar	OPV-I	PUBLIC
3	KDM26	SKAUST, Srinagar	OPV-I	PUBLIC
4	L315	Bajaura	OPV-II	PUBLIC
5	L316	Bajaura	OPV-I	PUBLIC
6	L317	Bajaura	OPV-I	PUBLIC
7	RCM 1-61	Meghalaya	OPV-III	PUBLIC
8	RCM1-76	Meghalaya	OPV-III	PUBLIC
S. No.	**Entry Name**	**NAME OF COMPANY**	**Testing Stage**	**PRIVATE / PUBLIC**
RAINFED				
1	CAH 1511	GODHRA	RF-II	PUBLIC
2	RCRMH 7	RAICHUR	RF-II	PUBLIC
3	VaMH 15036	COIMBATORE	RF-II	PUBLIC
4	OMH 14 -27	BHUBANESHWAR	RF-II	PUBLIC
5	ADH 8106	IARI	RF-II	PUBLIC
6	ADH 1619	IARI	RF-II	PUBLIC
7	AH 8127	IARI DHARWARD	RF-II	PUBLIC
8	VIVEK HYBRID 45	ALMORA	RF-II	PUBLIC
9	CMH 15-005	TNAU, Coimbatore	RF-III	PUBLIC
10	CMH 12-686	TNAU, Coimbatore	RF-III	PUBLIC
S. No.	**Entry Name**	**NAME OF COMPANY**	**Trial Name**	**PRIVATE / PUBLIC**
CHECKS				
1	BIO 605	BIOSEEDS	EARLY	PRIVATE
2	DKC 7074	MONSANTO	EARLY	PRIVATE
3	VIVEK HYBRID 51	VPKAS, ALMORA	EARLY	PUBLIC
4	VIVEK HYBRID 45	VPKAS, ALMORA	EARLY	PUBLIC
5	CMH 08-292	TNAU, COIMBATORE	MEDIUM	PUBLIC
6	BIO 9544	BIOSEEDS	MEDIUM	PRIVATE
7	DHM 121	PJTSAU, HYDERABAD	MEDIUM	PUBLIC
8	CMH 08-287	TNAU, COIMBATORE	LATE	PUBLIC
9	CMH 08-282	TNAU, COIMBATORE	LATE	PUBLIC

S. No.	Entry Name	NAME OF COMPANY	Trial Name	PRIVATE / PUBLIC
CHECKS				
10	BIO 9682	BIOSEEDS	LATE	PRIVATE
11	NK 6240	SYNGENTA	LATE	PRIVATE
12	HQPM 1	CCSHAU, KARNAL	QPM	PUBLIC
13	HQPM 5	CCSHAU, KARNAL	QPM	PUBLIC
14	HQPM 7	CCSHAU, KARNAL	QPM	PUBLIC
15	PRATAP QPM	MPUAT, UDAIPUR	QPM	PUBLIC
16	VIVEK QPM 9	VPKAS, ALMORA	QPM	PUBLIC
17	MISTI	NUZIVEEDU SEEDS	SWEETCORN	PRIVATE
18	VL SWEETCORN -1	VPKAS, ALMORA	SWEETCORN	PUBLIC
19	VL BABYCORN 2	VPKAS, ALMORA	BABYCORN	PUBLIC
20	HM 4	CCSHAU, KARNAL	BABYCORN	PUBLIC
21	Vivek Sankul 35 (Check)	VPKAS, ALMORA	OPV	PUBLIC
22	Bajaura Makka (check)	HPKV, BAJAURA	OPV	PUBLIC
23	Hemant (Check)	Meghalaya	OPV	PUBLIC
24	Vijay (Check)	Meghalaya	OPV	PUBLIC
25	Shalimar Popcorn KDPC-2	SKAUST, Srinagar	POPCORN	PUBLIC
26	VL Amber Popcorn	VPKAS, ALMORA	POPCORN	PUBLIC

Breeding Decoding Sheets

All India Coordinated Maize Improvement Project

Testing of NIVT Early entries for yield

Experiment ID:666

Experiment ID:666

1

Testing of NIVT Early entries for yield

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	LMH 1946	40029	40077	40129
2	KMH 18-13	40011	40071	40110
3	KMH 18-15	40026	40067	40104
4	JH 32006	40016	40076	40106
5	JH 32328	40013	40057	40120
6	JH 32375	40007	40062	40108
7	JH 32385	40010	40063	40130
8	JH 32391	40017	40054	40102
9	FH 3912	40008	40056	40100
10	BYMH-13-5	40012	40059	40101
11	EH 3524	40022	40066	40109
12	EH 3571	40005	40064	40126
13	DH 330	40028	40078	40115
14	KNMH 4193	40001	40060	40121
15	DH 321	40025	40055	40107
16	DH 329	40023	40065	40113
17	AH 8622	40024	40073	40127
18	AH 8323	40027	40058	40112
19	AH 8178	40003	40053	40105
20	AH1608	40018	40080	40131
21	VEH18-1	40014	40074	40125
22	BAU-MH-18-1	40031	40079	40117
23	AH3254	40030	40070	40116
24	IMHSB-19K-1	40015	40051	40114
25	DKC 7204	40019	40081	40122
26	KH 102E	40002	40068	40103
27	Rasi 50252	40006	40069	40118
28	HKH 370	40000	40075	40123
29	Bio 605 (Check)	40020	40052	40119
30	DKC7074 (Check)	40004	40050	40111
31	Vivek Hybrid 51 (Check)	40021	40072	40128
32	Vivek Hybrid 45 (Check)	40009	40061	40124

All India Coordinated Maize Improvement Project

NIVT Normal maize

Experiment ID:596

1

NIVT Normal maize

Treatment Details with Random Coding

Sr.No.	Treatment	Replication1	Replication2	Replication3
1	FH3912	2126	2154	2200
2	DKC7204	2116	2175	2209
3	FH3900	2118	2163	2206
4	DKC7074 (Check)	2102	2172	2219
5	AH8622	2119	2155	2223
6	AH8323	2108	2171	2226
7	KMH1815	2121	2161	2204
8	PMH5 (Check)	2123	2156	2222
9	H118	2103	2166	2224
10	H119	2124	2165	2207
11	AH3254	2125	2170	2225
12	H121	2120	2177	2205
13	AH8178	2100	2153	2202
14	H120	2105	2157	2217
15	AH4045	2106	2162	2201
16	AH1608	2110	2176	2208
17	HKH371	2117	2159	2211
18	HKH370	2101	2169	2213
19	LMH1946	2115	2174	2216
20	LMH1947	2112	2164	2214
21	LMH1948	2113	2173	2227
22	LMH1945	2107	2152	2203
23	DH321	2111	2158	2215
24	FH3917	2114	2150	2220
25	BIO 605 (Check)	2104	2167	2212
26	DH322	2109	2168	2221
27	KMH1813	2127	2151	2210
28	VIVEK HYB-45 (Check)	2122	2160	2218

All India Coordinated Maize Improvement Project

Testing of NIVT Medium (Tr. 62) entries for yield

Experiment ID:675

Experiment ID:675

1

Testing of NIVT Medium (Tr. 62) entries for yield

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	LMH 4119	41041	41066	41128
2	LMH 4319	41030	41061	41120
3	LMH 4419	41015	41051	41129
4	LMH 4219	41040	41057	41106
5	KMH 18-42	41007	41083	41140
6	KMH 18-71	41025	41075	41116
7	JH 18064	41005	41086	41121
8	JH 18065	41011	41065	41118
9	JH 18099	41032	41067	41105
10	JH 32104	41039	41088	41117
11	HMM 1014	41000	41059	41101
12	HMM 1019	41017	41063	41130
13	CMH-15-012	41035	41069	41107
14	CMH-12-686	41024	41081	41139
15	EH 3638	41037	41079	41108
16	KNMH 4191	41013	41076	41126
17	KNMH 4192	41021	41060	41109
18	KNMH 4194	41029	41053	41103
19	RCRMH 13	41026	41073	41113
20	RCRMH 14	41028	41056	41125
21	DH 327	41034	41087	41111
22	DH 328	41003	41052	41136
23	IWH 1407	41004	41078	41127
24	IYH 1603	41036	41084	41132
25	VaMH 16008	41009	41050	41131
26	AH 8452	41033	41090	41102
27	AH 8245 R	41027	41058	41137
28	BH 417182	41014	41091	41123
29	BH 417152	41019	41062	41138
30	BH 417193	41020	41080	41115
31	AH1625	41022	41072	41134
32	AH1634	41001	41071	41133
33	AH4142	41008	41068	41119
34	AH4167	41031	41089	41110
35	OMH17-19	41002	41055	41135
36	OMH17-24	41038	41082	41112
37	BAU-MH-18-2	41023	41074	41141

38	BAU-MH-18-3	41010	41064	41114
39	IMHL-K-19-1	41012	41054	41100
40	DHM 121 (Check)	41016	41077	41122
41	BIO 9544 (Check)	41018	41070	41104
42	CMH 08-292 (Check)	41006	41085	41124

All India Coordinated Maize Improvement Project

Testing of NIVT Medium A (Tr. 62)entries for yield

Experiment ID:676

Experiment ID:676

1

Testing of NIVT Medium A (Tr. 62)entries for yield

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	IIMWH 1901	42013	42058	42107
2	IMHVS-101	42027	42085	42110
3	IAHM2016-2	42001	42061	42117
4	IAHM 2016-38	42014	42079	42108
5	IMHSB-19K-2	42036	42063	42134
6	IMHSB-19K-3	42019	42065	42139
7	IMHSB-19K-4	42021	42080	42100
8	IMHSB-19K-5	42002	42059	42131
9	IMHSB-19K-6	42026	42056	42116
10	IMHSB-19K-7	42035	42088	42124
11	IMHSB-19K-8	42025	42073	42120
12	IMHSB-19K-9	42004	42057	42102
13	IMHSB-19K-10	42038	42082	42106
14	IMHSB-19K-11	42003	42054	42141
15	HKH-371	42020	42087	42126
16	HKH-372	42012	42083	42138
17	MH 1945	42015	42055	42121
18	MH 1941	42022	42084	42125
19	MH 1948	42005	42062	42136
20	NMH 4144	42037	42064	42130
21	DKC 8205	42039	42050	42137
22	DKC 8209	42016	42074	42112
23	KH 518	42011	42071	42109
24	GK 3207	42008	42089	42103
25	SYN916701	42000	42076	42104
26	SYN916540	42032	42090	42122
27	HT 519015	42041	42051	42118
28	TS 2609	42007	42069	42132
29	JKMH 1481	42040	42067	42129
30	ADV 7745	42031	42068	42115
31	PM 19101 M	42018	42081	42111
32	PM 19102 M	42009	42091	42127
33	PM 19103 M	42029	42075	42119
34	HM 19203	42017	42066	42114
35	HM 19305	42028	42078	42123

36	SVMH-1130	42006	42086	42133
37	KSP-5391	42030	42077	42105
38	GGMH-114	42024	42060	42113
39	SYN-916248	42010	42070	42128
40	DHM 121 (Check)	42034	42053	42135
41	BIO 9544 (Check)	42023	42072	42140
42	CMH 08-292 (Check)	42033	42052	42101

All India Coordinated Maize Improvement Project

NIVT Normal maize

Experiment ID:582

1

NIVT Normal maize

Treatment Details with Random Coding

Sr.No.	Treatment	Replication1	Replication2	Replication3
1	DKC8205	1108	1171	1212
2	DKC8209	1110	1162	1217
3	AH8452	1107	1169	1205
4	AH8245 R	1106	1166	1208
5	HKH372	1115	1156	1207
6	AH1634	1103	1158	1221
7	AH1625	1116	1161	1204
8	JKMH1481	1109	1153	1201
9	AH4167	1104	1163	1213
10	KMH1842	1113	1160	1214
11	DHM 121 (Check)	1121	1165	1202
12	BIO 9544 (Check)	1102	1170	1206
13	LMH4119	1119	1159	1219
14	LMH4219	1112	1151	1220
15	CMH08-292 (Check)	1120	1155	1203
16	LMH4419	1105	1154	1211
17	DH323	1114	1167	1218
18	KMH1871	1111	1152	1216
19	AH4142	1117	1157	1215
20	LMH4319	1118	1164	1210
21	DH324	1101	1168	1209

All India Coordinated Maize Improvement Project

Testing of NIVT Late (Tr. 61)entries for yield

Experiment ID:680

Experiment ID:680

1

Testing of NIVT Late (Tr. 61)entries for yield

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	NMH 4313	43000	43608	44214
2	MM2424	43054	43653	44237
3	DKC 9207	43034	43603	44254
4	KH 2193	43026	43656	44236
5	KH 5146	43041	43647	44233
6	GK 3218	43047	43620	44247
7	SYN916801	43049	43654	44250
8	SBMH 1817	43059	43634	44257
9	HT 519074	43035	43616	44230
10	TMMH 853	43017	43630	44204
11	PM 19104L	43051	43626	44258
12	PM 19105 L	43024	43632	44223
13	PM 19106 L	43033	43605	44202
14	PM 19107 L	43048	43650	44221
15	PM 19108 L	43007	43617	44255
16	PM 19109 L	43040	43633	44243
17	PM 19110 L	43021	43619	44216
18	PM 19111 L	43031	43636	44209
19	VNR4343	43018	43602	44238
20	VNR37650	43014	43627	44251
21	ADV7713	43032	43628	44242
22	IM12723	43019	43631	44252
23	SVMH 1627	43057	43609	44248
24	KMH-8322	43036	43644	44208
25	KMH-8333	43011	43600	44225
26	Rasi 6597	43027	43646	44228
27	Rasi 70574	43030	43655	44259
28	CP 802	43029	43623	44205
29	CP 555	43022	43638	44245
30	JH 17011	43025	43624	44226
31	JH 18056	43020	43604	44240
32	JH 18057	43043	43651	44211
33	JH 18087	43005	43614	44227
34	JH 18088	43038	43621	44244
35	JH 18091	43042	43629	44232
36	HMM 1018	43004	43613	44212
37	CMH-15-006	43001	43635	44234

38	CMH-15-008	43053	43645	44200
39	AH 8072	43003	43641	44249
40	AH 8753	43012	43649	44224
41	BH 417202	43045	43607	44203
42	AH5158	43055	43612	44235
43	AH1645	43009	43652	44241
44	AH4139	43037	43639	44213
45	QMH-1604	43046	43606	44256
46	QMH-1617	43016	43643	44253
47	QMH-16101	43044	43658	44246
48	QMH-1697	43056	43618	44231
49	GH16352	43015	43622	44219
50	AH4272	43039	43625	44222
51	IMHSB-19K-12	43028	43642	44207
52	IMHSB-19K-13	43058	43611	44229
53	IMHSB-19K-14	43052	43657	44210
54	IMHVS-102	43002	43637	44239
55	BRMH-17068	43008	43659	44220
56	CMH 08-287 (Check)	43023	43601	44217
57	CMH 08-282 (Check)	43006	43648	44215
58	BIO 9682 (Check)	43010	43640	44218
59	NK6240 (Check)	43050	43610	44206
60	CMH 08-292 (Filler)	43013	43615	44201

All India Coordinated Maize Improvement Project

AVT-I Normal maize

Experiment ID:594

1

AVT-I Normal maize

Treatment Details with Random Coding

Sr.No.	Treatment	Replication1	Replication2	Replication3
1	FH3875	8104	8153	8202
2	KMH17-89	8107	8152	8206
3	BIO 605 (CHECK)	8106	8157	8203
4	DKC7074 (Check)	8102	8155	8201
5	PMH5 (CHECK)	8105	8151	8205
6	VIVEK HYB-45 (CHECK)	8101	8154	8204
7	LMH 5119 (Filler)	8103	8156	8207

All India Coordinated Maize Improvement Project

AVT-I Normal maize

Experiment ID:590

1

AVT-I Normal maize

Treatment Details with Random Coding

Sr.No.	Treatment	Replication1	Replication2	Replication3
1	DKC 8191	7107	7155	7203
2	LMH1417	7101	7157	7206
3	DKC9190	7106	7152	7207
4	BIO 9544 (Check)	7105	7156	7202
5	DHM 121 (Check)	7104	7154	7205
6	CMH08-292 (Check)	7103	7153	7201
7	JKMH15303	7102	7151	7204

All India Coordinated Maize Improvement Project

AVT II MEDIUM ENTRIES TESTING IN NHZ(Z I)

Experiment ID:620

3

AVT II MEDIUM ENTRIES TESTING IN NHZ(Z I)

Treatment Details with Random Coding

Sr.No.	Treatment	Replication1	Replication2	Replication3
1	DKC8181 (IR8004)	20004	20057	20105
2	IMHBG-17K-15	20005	20055	20108
3	KMH-16-29	20001	20052	20102
4	NMH-4053	20008	20051	20103
5	PM17102M	20007	20053	20107
6	Bio 9544 (Check)	20003	20058	20106
7	DHM 121 (Check)	20006	20056	20101
8	CMH 08-292 (Check)	20002	20054	20104

All India Coordinated Maize Improvement Project

Testing of AVT I Early entries in Zone II (NWPZ)

Experiment ID:625

Experiment ID:625

2

Testing of AVT I Early entries in Zone II (NWPZ)

Treatment Details with Random Coding

Sr.No.	Treatment	Replication1	Replication2	Replication3
1	AH8181	22005	22052	22102
2	JH32094	22007	22056	22103
3	DKC 7074 (Check)	22006	22057	22106
4	Bio 605 (Check)	22003	22055	22104
5	Vivek Hybrid 51 (Check)	22001	22053	22101
6	vIVEK Hybrid 45 (Check)	22004	22051	22105
7	DHM 121 (Filler)	22002	22054	22107

All India Coordinated Maize Improvement Project

Testing of AVT I-II Medium (66, 70) entries in Zone II (NWPZ)

Experiment ID:634

Experiment ID:634

3

Testing of AVT I-II Medium (66, 70) entries in Zone II (NWPZ)

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	DKC 9194	21016	21061	21113
2	INDAM 1118	21014	21058	21111
3	SYN816604	21012	21066	21114
4	PM 18107 M	21010	21057	21106
5	DKC 9190	21008	21051	21102
6	KMH 004	21013	21062	21103
7	TUFAN	21009	21054	21110
8	KNMH 4181	21018	21064	21115
9	RCRMH 7	21001	21065	21117
10	AH 7067R	21006	21052	21105
11	AH4271	21015	21068	21108
12	OMH 17-47	21007	21059	21112
13	BH416215	21017	21053	21116
14	IMHBG-17 K-17	21003	21063	21118
15	JH 16045	21011	21056	21109
16	BIO 9544 (Check)	21002	21060	21107
17	DHM 121 (Check)	21004	21055	21104
18	CMH 08-292 (Check)	21005	21067	21101

All India Coordinated Maize Improvement Project

Testing of AVT I-II Late (65, 69) entries in Zone II (NWPZ)

Experiment ID:629

Experiment ID:629

3

Testing of AVT I-II Late (65, 69) entries in Zone II (NWPZ)

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	SYN816514	23008	23053	23122
2	TS 2505	23001	23054	23102
3	JKMH 150375	23016	23060	23109
4	ADV 7132	23015	23070	23104
5	PM 18101 L	23025	23052	23116
6	PM 18104 L	23011	23065	23111
7	PM 18105 L	23017	23073	23119
8	PM 18106 L	23003	23063	23107
9	BLH 137	23005	23064	23124
10	KMH 005	23022	23051	23115
11	Bio 534	23019	23069	23106
12	JH 16224	23009	23061	23101
13	JH 17026	23023	23074	23118
14	JH 16041	23024	23068	23114
15	JH 16081	23010	23057	23112
16	HT 17169	23004	23072	23121
17	SUPER 1818	23012	23056	23113
18	B57	23002	23062	23105
19	ADV 1390164	23007	23059	23103
20	KMH 463	23006	23075	23117
21	Bio 218	23018	23058	23108
22	CP 858	23013	23071	23125
23	NK 6240 (Check)	23014	23067	23120
24	Bio 9682 (Check)	23020	23055	23123
25	CMH 08-287 (Check)	23021	23066	23110

All India Coordinated Maize Improvement Project

Testing of AVT I Early (67) entries in Zone III (NEPZ)

Experiment ID:630

Experiment ID:630

2

Testing of AVT I Early (67) entries in Zone III (NEPZ)

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	JH 31950	24007	24058	24102
2	JH 32056	24004	24055	24107
3	JH 32057	24003	24051	24101
4	FH 3879	24002	24056	24105
5	FH 3861	24006	24053	24106
6	Bio 605 (Check)	24005	24052	24103
7	DKC 7074 (Check)	24001	24054	24108
8	Vivek HYBRID 45 (Check)	24008	24057	24104

All India Coordinated Maize Improvement Project

Testing of AVT I Medium (Tr.66) entries in Zone III (NEPZ)

Experiment ID:636

Experiment ID:636

2

Testing of AVT I Medium (Tr.66) entries in Zone III (NEPZ)

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	RCRMH 7	26009	26051	26104
2	CAH 1511	26003	26057	26111
3	DKC 9194	26006	26053	26103
4	SYN816604	26002	26054	26102
5	HT 18607	26005	26052	26105
6	JKMH 15303	26004	26056	26108
7	TUFAN	26007	26059	26110
8	LMH3417	26001	26055	26101
9	BIO 9544 (Check)	26008	26060	26106
10	DMH 121 (Check)	26011	26058	26109
11	CMH 08-292 (Check)	26010	26061	26107

All India Coordinated Maize Improvement Project

Testing of AVT II (Tr. 69) entries in Zone III (NEPZ)

Experiment ID:635

Experiment ID:635

3

Testing of AVT II (Tr. 69) entries in Zone III (NEPZ)

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	Rasi 3499	25005	25056	25105
2	CP 858	25004	25055	25107
3	JH 16041	25002	25052	25106
4	NK 6240 (Check)	25001	25054	25102
5	BIO 9682 (Check)	25003	25053	25101
6	CMH 08-287 (Check)	25006	25051	25103
7	CMH 08-282 (Check)	25007	25057	25104

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Testing of AVT I Early (Tr. 67) entries in Zone IV (PZ)

Experiment ID:647

Experiment ID:647

2

Testing of AVT I Early (Tr. 67) entries in Zone IV (PZ)

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	FH3879	31001	31051	31103
2	Bio 605 (Check)	31004	31054	31104
3	DKC 7074 (Check)	31003	31057	31102
4	Vivek HYBRID 45 (Check)	31006	31055	31101
5	Vivek HYBRID 51 (Check)	31005	31056	31106
6	DHM 121 (Filler)	31007	31053	31107
7	Bio 9544 (Filler)	31002	31052	31105

All India Coordinated Maize Improvement Project

Testing of AVT I-II Medium (Tr. 66, 70) entries in Zone IV (PZ)

Experiment ID:644

Experiment ID:644

3

Testing of AVT I-II Medium (Tr. 66, 70) entries in Zone IV (PZ)

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	DKC 9194	30012	30058	30111
2	DKC 9198	30013	30060	30105
3	SYN816604	30004	30062	30101
4	HT 18607	30011	30053	30104
5	JKMH 15303	30010	30061	30109
6	JKMH1518	30002	30055	30106
7	MM9309	30006	30056	30103
8	INDAM 1122	30007	30063	30110
9	CAH 1511	30001	30054	30112
10	ZH 161032	30009	30051	30108
11	DHM 121 (Check)	30003	30059	30107
12	Bio 9544 (Check)	30005	30052	30113
13	CMH 08-292 (Check)	30008	30057	30102

All India Coordinated Maize Improvement Project

Testing of AVT I-II Late (Tr. 65, 69) entries in Zone IV (PZ)

Experiment ID:654

Experiment ID:654

3

Testing of AVT I-II Late (Tr. 65, 69) entries in Zone IV (PZ)

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	BLH 137	32009	32053	32103
2	PM 18101L	32002	32059	32102
3	ADV 1390064	32006	32052	32106
4	PM 18106L	32008	32055	32109
5	RASI 4992	32003	32057	32101
6	JKMH-150375	32001	32051	32104
7	NK 6240 (Check)	32005	32056	32105
8	BIO 9682 (Check)	32007	32058	32107
9	CMH 08-287 (Check)	32004	32054	32108

All India Coordinated Maize Improvement Project

Testing of AVT I Early (Tr. 67) entries in Zone V (CWZ)

Experiment ID:640

Experiment ID:640

2

Testing of AVT I Early (Tr. 67) entries in Zone V (CWZ)

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	FH3861	28005	28051	28106
2	FH3879	28001	28058	28105
3	JH32014	28004	28056	28108
4	JH32057	28003	28054	28101
5	JH32094	28008	28057	28104
6	BIO 605 (Check)	28002	28055	28102
7	DKC 7074 (Check)	28007	28052	28107
8	Vivek Hybrid 51 (Check)	28006	28053	28103

All India Coordinated Maize Improvement Project

Testing of AVT I-II Medium (Tr.66,70) entries in Zone V (CWZ)

Experiment ID:642

Experiment ID:642

3

Testing of AVT I-II Medium (Tr.66,70) entries in Zone V (CWZ)

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	LMH 1016	29002	29055	29105
2	BH416215	29001	29059	29103
3	BH416032	29010	29053	29104
4	SYN816604	29008	29051	29107
5	MM9309	29009	29052	29106
6	BLH118	29005	29057	29109
7	RCRMH 2	29006	29060	29108
8	BIO 9544 (Check)	29004	29054	29110
9	DHM 121 (Check)	29007	29058	29102
10	CMH 08-292 (Check)	29003	29056	29101

All India Coordinated Maize Improvement Project

Testing of AVT I Late (Tr. 65) entries in Zone V (CWZ)

Experiment ID:641

Experiment ID:641

2

Testing of AVT I Late (Tr. 65) entries in Zone V (CWZ)

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	NK 6240 (Check)	27006	27051	27102
2	BIO 9682 (Check)	27003	27053	27103
3	CMH 08-287 (Check)	27004	27054	27106
4	CMH 08-282 (Check)	27002	27056	27107
5	DHM 121 (Filler)	27001	27057	27104
6	PM 18101 L	27005	27055	27101
7	PM 18106 L	27007	27052	27105

All India Coordinated Maize Improvement Project

Testing of QPM I-II-III entries for yield

Experiment ID:688

8

Testing of QPM I-II-III entries for yield

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	FQH 148	46001	46061	46112
2	APQH 1 (QPM+PROA)	46004	46073	46113
3	APH3 (PROA)	46007	46056	46114
4	APH 1 (PROA)	46014	46052	46122
5	APH 2 (PROA)	46013	46059	46119
6	PUSA HM8 IMPROVED (CHECK)	46011	46064	46110
7	VEHQ 16-1	46022	46058	46118
8	IIMRQPMH 1705	46020	46066	46106
9	IIMRQPMH 1708	46005	46053	46123
10	IQPMH-18-2	46010	46060	46108
11	IQPMH-18-4	46002	46070	46107
12	IQPMH-19-1	46023	46067	46102
13	IQPMH-19-2	46006	46051	46121
14	IQPMH-19-3	46003	46057	46111
15	IQPMH-19-4	46009	46054	46105
16	APQH 8 (QPM+PROA)	46008	46063	46104
17	QPM MH-51	46016	46072	46109
18	APQH 9 (CHECK)	46015	46068	46101
19	Vivek QPM 9 (Check)	46018	46071	46117
20	Pratap QPM Hybrid (Check)	46019	46069	46103
21	HQPM-1 (Check)	46012	46065	46115
22	HQPM-5 (Check)	46017	46055	46120
23	HQPM-7 (Check)	46021	46062	46116

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QPM

Experiment ID:586

1

QPM

Treatment Details with Random Coding

Sr.No.	Treatment	Replication1	Replication2	Replication3
1	FQH165	3108	3157	3202
2	LQPMH 319	3113	3162	3207
3	FQH140	3101	3154	3210
4	SQPMH2	3112	3160	3205
5	FQH160	3105	3165	3201
6	HQPM1 (Check)	3107	3153	3206
7	APQH1 (QPM+Pro A)	3104	3161	3208
8	LQPMH 219	3115	3159	3204
9	APQH9 (Check for Pro Vit A)	3106	3158	3209
10	HQPM5 (check)	3111	3156	3215
11	HQPM 7 (Check)	3110	3164	3203
12	LQPMH 119	3102	3155	3214
13	APH1 (Pro vit A)	3109	3151	3212
14	Vivek QPM 9 (check)	3114	3163	3213
15	LQPMH118	3103	3152	3211

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Testing of Babycorn I-II-III entries across zones

Experiment ID:662

Experiment ID:662

4

Testing of Babycorn I-II-III entries across zones

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	LMH 3517	33007	33060	33101
2	DBCH 326	33002	33065	33107
3	ABHS4-1	33011	33059	33108
4	ABHS4-2	33014	33052	33103
5	AH 7043	33006	33064	33105
6	AH 5021	33012	33053	33113
7	AH 7204	33008	33056	33114
8	AH 7188	33013	33063	33106
9	AHB 7985	33009	33058	33115
10	BAU BCH 18-1	33005	33061	33112
11	IMHSB-19KB-1	33001	33054	33102
12	IMHSB-19KB-2	33004	33057	33110
13	PAC 321	33010	33055	33111
14	CMVL Baby corn 2 (Check)	33003	33062	33109
15	HM 4 (Check)	33015	33051	33104

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Babycorn

Experiment ID:588

1

Babycorn

Treatment Details with Random Coding

Sr.No.	Treatment	Replication1	Replication2	Replication3
1	CMVL BC2 (CHECK)	5104	5153	5204
2	AH7043	5107	5152	5203
3	AH5021	5101	5156	5201
4	DBCH326	5106	5157	5206
5	HM 4 (Check)	5105	5151	5205
6	LBCH 119	5103	5154	5202
7	LBCH 219	5102	5155	5207

All India Coordinated Maize Improvement Project

Testing of Sweet Corn I-II-III entries for yield

Experiment ID:683

5

Testing of Sweet Corn I-II-III entries for yield

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	ISCH 0913	45002	45065	45107
2	BSCH 417006	45010	45060	45103
3	BSCH 417139	45008	45054	45115
4	NUZI 260	45012	45052	45108
5	NUZI 205	45015	45053	45111
6	ADVSW-1 (Check)	45011	45063	45114
7	ADVSW-2 (Check)	45009	45051	45110
8	Misthi (Check)	45005	45056	45112
9	CMVL SC 1 (Check)	45001	45064	45105
10	CPSC 301	45007	45055	45102
11	Sweet Purple	45003	45061	45113
12	Top Sweet	45004	45057	45104
13	Super sweet	45006	45062	45109
14	CP Sweet 2	45013	45058	45106
15	ISCH 1901	45014	45059	45101

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Sweet corn

Experiment ID:597

1

Sweet corn

Treatment Details with Random Coding

Sr.No.	Treatment	Replication1	Replication2	Replication3
1	Nuzi205	4103	4156	4206
2	DSCH325	4101	4151	4202
3	CMVL SC 1 (Check)	4107	4154	4205
4	Misthi (Check)	4104	4153	4207
5	Bajaura Sweet corn (Filler)	4109	4152	4204
6	Punjab Sweetcorn 219	4105	4155	4209
7	Punjab Sweetcorn -1 (Filler)	4102	4157	4201
8	LSC 119	4106	4158	4203
9	FSCH 128	4108	4159	4208

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Popcorn

Experiment ID:595

1

Popcorn

Treatment Details with Random Coding

Sr.No.	Treatment	Replication1	Replication2	Replication3
1	APCH3	9104	9157	9207
2	Shalimar Popcorn KDPC-2 (Check)	9105	9156	9205
3	VL Amber Popcorn (Check)	9106	9155	9204
4	Bajaura Popcorn (Filler)	9101	9154	9202
5	LPCH 119	9107	9152	9201
6	LPCH 219	9102	9151	9203
7	KDPC 2 (Filler)	9103	9153	9206

All India Coordinated Maize Improvement Project

Testing of Rainfed II-III entries for yield in Zone IV

Experiment ID:699

7

Testing of Rainfed II-III entries for yield in Zone IV

Treatment Details with Random Coding

Sr.No.	Treatment	Replication1	Replication2	Replication3
1	ADH 8106	48004	48053	48103
2	ADH 1619	48003	48052	48101
3	DKC7074 (Check)	48005	48057	48106
4	Vivek Hybrid 51 (Check)	48007	48055	48104
5	Vivek Hybrid 45 (Check)	48006	48054	48107
6	Bio 605 (Check)	48002	48056	48102
7	DHM 117 (fILLER)	48001	48051	48105

All India Coordinated Maize Improvement Project

Testing of Rainfed II-III Early entries for yield in Zone V

Experiment ID:700

7

Testing of Rainfed II-III Early entries for yield in Zone V

Treatment Details with Random Coding

Sr.No.	Treatment	Replication1	Replication2	Replication3
1	ADH 8106	48507	48555	48602
2	AH 8127	48502	48553	48605
3	DKC7074 (Check)	48506	48556	48601
4	Vivek Hybrid 51 (Check)	48501	48552	48606
5	Vivek Hybrid 45	48505	48554	48604
6	Bio 605 (Check)	48503	48557	48607
7	DHM 117 (FLLER)	48504	48551	48603

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Testing of Rainfed II-III Medium entries for yield in Zone V

Experiment ID:702

7

Testing of Rainfed II-III Medium entries for yield in Zone V

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	CAH1511	49003	49053	49102
2	RCRMH7(ZH138388)	49001	49055	49105
3	VaMH 15036	49006	49051	49101
4	CMH 08 292 (Check)	49005	49056	49104
5	Bio 9544 (Check)	49004	49052	49107
6	DHM 121 (Check)	49007	49054	49103
7	DHM117 (Filler)	49002	49057	49106

All India Coordinated Maize Improvement Project

Testing of Rainfed II-III Medium entries for yield in Zone IV

Experiment ID:703

7

Testing of Rainfed II-III Medium entries for yield in Zone IV

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	OMH14-27	49202	49251	49303
2	NK 6240 (Filler)	49203	49254	49301
3	CMH 08 287 (Filler)	49204	49252	49307
4	CMH 08 292 (Check)	49207	49255	49302
5	Bio 9544 (Check)	49205	49256	49304
6	DHM 121 (Check)	49206	49257	49306
7	DHM117 (Filler)	49201	49253	49305

All India Coordinated Maize Improvement Project

Testing of Rainfed II-III Late entries for yield in Zone V

Experiment ID:704

7

Testing of Rainfed II-III Late entries for yield in Zone V

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	CMH 15-005	49402	49456	49504
2	CMH 08-287 (Check)	49407	49454	49502
3	CMH 12 -686	49403	49451	49506
4	Bio 9682 (Check)	49404	49452	49505
5	CHM 08-282 (Check)	49405	49455	49501
6	NK 6240 (Check)	49401	49457	49503
7	DHM 117 (Filler)	49406	49453	49507

All India Coordinated Maize Improvement Project

Testing of Rainfed II-III Late entries for yield in Zone IV

Experiment ID:705

7

Testing of Rainfed II-III Late entries for yield in Zone IV

Treatment Details with Random Coding

Sr.No.	Lines	Replication1	Replication2	Replication3
1	CMH 15-005	49607	49657	49707
2	CMH 08-287 (Check)	49604	49651	49702
3	BIO 9544 (Filler))	49601	49655	49703
4	Bio 9682 (Check)	49606	49652	49701
5	CHM 08-282 (Check)	49603	49654	49704
6	NK 6240 (Check)	49602	49656	49706
7	DHM 117 (Filler)	49605	49653	49705

AGRONOMY

Crop Production: Kharif 2019
Index Table

Summary Crop production: Kharif 2019

The maize agronomy programme in kharif 2019 focused on development of agronomy of pre-release genotypes of various maize types, nutrient and tillage management in maize systems, ecological intensification for climate resilient maize system, sensor guided N management validation in maize, integrated nutrient management in maize system and weed management in maize system.

Effect of planting densities and nutrient levels on the performance of pre-release genotypes

The pre-release genotype of AVT-II year were tested at two different planting densities (normal and high) and nutrient levels (RDF and 150% RDF) along with standard check to know the response of new genotypes to high density and nutrient application during kharif 2019 in different agro-ecologies. The pre release genotypes were tested in all five ecologies *viz*., northern hill zone(NHZ) north western plain zone (NWPZ), north eastern plain zone (NEPZ), Peninsular zone (PZ) and central western zone (CWZ). Late maturity genotype significantly responded to high density at NWPZ and NEPZ while to 150% RDF at NWPZ and CWZ. In the late maturity genotypes tested, the genotype CP858, Bio218 and KMH-463 in NWPZ, CP858 in NEPZ, ADV 1390064 in PZ and no genotype at PZ significantly gave higher yield over best check. In medium maturity genotype higher density in NWPZ while higher nutrient application (150% RDF) in NHZ, NWPZ, PZ and CWZ gave significantly higher yield over recommended densities and RDF. Similarly, the medium maturity genotypes, no genotype at NHZ and JH 16045 at NWPZ, INDAM 1122 in PZ and BLH 118 and RCRMH2 at CWZ significantly gave higher yield over best check. The early maturity genotype responded to high density and high nutrient application and JH31947 gave significantly higher yield over best check in CWZ. In contrast to this, no genotype performed better than check under rainfed early trials in CWZ.Among the QPMand EDV genotypes tested, IIMRQPMH 1708 and IIMRQPMH 1601 at NWPZ, APQH1(QPM+PRO-A) and EQH-16-1 in PZ while no genotype in NHZ, NEPZ and CWZ significantly gave higher yield over best check.

The sweet corn genotype, NUZI 260 in NWPZ, NEPZ at normal density and NUZI 260 at high density in CWZ while no genotype at PZgave significantly higher yield over best check.The tested babycorn genotype, no genotype at NHZ, PZ and CWZ but PAC321 at NWPZ, PAC321 and AH-521 at NEPZ outperformed significantly over best check. The OPV genotype, RCM 1-61 and RCM1-76 gave significantly higher yield over best check at NHZ (Imphal).

Nutrient management in maize-wheat-mungbean/cowpea cropping system under different tillage practices

At Pantnagar, zero tillage (ZT) gave significantly higher grain yield and net returns over permanent bed (PB) which was at par statistically to conventional tillage (CT) in maize. However, the nutrient management practices (green seeker (GS) guided, SSNM and RDF) were at par for yield and net returns in kharif maize grown in rotation with maize-wheat-cowpea. At Dholi, PB and SSNM gave significantly higher yield over CT and GS guided, respectively. In contrast to this, ZT and PB gave significantly higher yield and net returns over CT and SSNM over RDF and GS guided nutrient management at Udaipur. ZT also gave significantly higher wheat and mungbean yield and system net returns than CT at Udaipur. The SSNM also gave significantly higher wheat and mungbean yield and system net return over RDF and GS guided nutrient application at Udaipur. It shows location specific responses of

maize systems to the various tillage and nutrient management practices in maize-wheat-mungbean cropping system.

Nutrient management in rice-maize cropping system under different tillage practices
At Dholi, the rice yields were significantly higher with ZT/PB over CT while at Kalyani ZT significantly gave higher rice yields over CT and PB. However, there was no significant effect of precision nutrient management practices over RDF on rice yield at both the locations.

Nutrient management in maize based rainfed cropping systems under different tillage practices
At Srinagar tillage and nutrient management showed a significant interaction effect and ZT with RDF resulted in best for yield and net returns from maize over other treatment combinations. At Banswara and Chhindwara, no significant effect of tillage was observed over maize yield while SSNM gave significantly higher yield over RDF and farmer practices (FFP).However, at Chhindwara, ZT followed by CT gave significantly higher net returns over CT in maize.

Long-term trial on integrated nutrient management in maize system
The experiments were conducted at 8 locations to explore the integrated nutrient management options in various maize systems in three different agro-ecologies at Srinagar(NHZ), Pantnagar(NWPZ), Coimbatore, Dharwad, Karimnagar(PZ), Ambikapur, Banswara and Chhindwara(CWZ).The treatments applied were T1 –Unmanured, T2 - 100% RDF, T3 - 75% RDF, T4 - 50% RDF, T5 - FYM 10 t/ha + Azatobactor, T6 - Maize + legume intercropping (for economic produce) with FYM 10 t/ha + Azatobactor, T7 - 100% RDF + 5 t/ha FYM, T8 - 75% RDF + 5 t/ha FYM, T9 - 50% RDF + 5 t/ha FYM, T10 - 100% RDF + 5 kg Zn/ha and T11 - FYM 5 t/ha (state practice). The yield of maize varied significantly with various nutrient management treatments applied in maize which was different in various ecologies. The grain yield of maize was significantly higher in T7 at par to T2 at Srinagar, T7 at par with T2, T3, T10 and T8 at Coimbatore, T7 at part to T10 at Dharwad, T10 at par to T2, T7 and T12 at Karimnagar, T7 at par with T2 and T10 at Ambikapur, T6 at par to 7 and T10 at Banswara and T7 at par with T8 and T10 at Chhindwara. However, the net return was significantly higher in T7 at Srinagar, T2 at par to T10 at Coimbatore, T7 at par to T8, T9, T10 and T2 at Dharwad, T10 at par to T2 at Karimnagar, T7 at par with T2, T3, T9 and T10 at Ambikapur and T7 at par with T8 and T10.

Validation of sensor based nitrogen management in maize
The calibration curve developed by ICAR-IIMR was validated at 7 locations for precision nitrogen management in maize for realizing higher yield and nutrient use efficiency. The locations covered all major maize producing ecologies *viz*. Bajaura(NHZ), Ludhiana, Pantnagar(NWPZ), Ranchi(NEPZ), Hyderabad, Peddapuram(PZ) and Udaipur(CWZ). The tested treatments were T1 – Control, T2 - RDF (1/3+1/3+/1/3 N splitting at basal, knee high and tasseling), T3 - STCR (1/3+1/3+/1/3 N splitting at basal, knee high and tasseling), T4 - Nutrient expert (1/3+1/3+/1/3 N splitting at basal, knee high and tasseling), T5 - 33% basal N + Green Seeker based N at knee high & tasseling stage, T6 - 60% basal N + Green Seeker based N at knee high, T7 - 70% basal N + Green Seeker based N at knee high, T8 - 60% basal N + Green Seeker based N at tasseling stage, T9 - 70% basal N + Green Seeker based N at tasseling stage, T10 - 30% Basal N + 30% at 25 DAS + Green Seeker based N at tasseling stage, T11 - 35% Basal N + 35% at 25 DAS + Green Seeker based N at tasseling stage and T12 - N rich strip (300:60:40) (1/3+1/3+/1/3 N splitting at basal, knee high and tasseling). Best performing treatment was STCR at all the locations. Among GS guided application, the yield increased significantly over RDF by GS guided N application was recorded with T6 at Bajaura. The GS guided N application by T5, T10 and T11 gave yield statistically at par with RDF at Ludhiana

and Pantnagar. The all GS guided N application treatments gave statistically at par yield to RDF at Ranchi, Udaipur and Hyderabad except T6 at Ranchi. At Peddapuram, T11 gave higher yield, which was at par with T10, RDF and T5.

Ecological intensification for climate resilient maize based cropping systems

The experiment was conducted at 18 locations all over country to know the effect of best management practices in maize under climate change scenario and conducted in all zone *viz*., NHZ(3), NWPZ(3), NEPZ(5), PZ(4) and CWZ(3).Eight treatments *viz*., T1 - Farmer practice, T2 - Ecological Intensification (EI), T3 - EI minus tillage practice (Farmer adopted tillage and residue management in all crops), T4 - EI minus Nutrient management (Farmer adopted nutrients in all crops), T5 - EI minus Planting density (Farmer adopted genotype and density in all crops), T6 - EI minus Water management (farmer's practice for all crops), T7 - EI minus Weed management (Farmer adopted weed management in all crops) and T8 - EI minus Disease and insect management (Farmer adopted management in all crops) imposed in *kharif* maize. The treatment EI gave significantly higher yield and returns over farmers practice at all locations except at Karimnagar. The yield and net returns enhancement due to EI was very high in NHZ, NEPZ and CWZ compared to NWPZ and PZ. The omission of best nutrient management resulted in maximum yield reduction and lowest net returns at Bajaura, Imphal, Bhubneshwar and Kalyani while planting density omission from EI also played significant role at Srinagar, Ranchi, Dholiand Chitrakoot and its omission from EI gave lowest yield and net returns. In contrast to this, EI minus Weed management gave the lowest yield and net returns at Karnal, Ludhiana, Pantnagar, Coimbatore, Dharwad, Vagarai, Ambikapur, Chhindwara and Udaipur. Thus, the different ecological conditions have certain management practices if targeted effectively can bring more yield gains at farmers field. However, best management practices as EI is the best option for enhancing yield and net returns in maize system.

Weed management in maize systems

To design and develop effective pre- and post-emergence weed management practices in maize the experiments were initiated and conducted during kharif 2019at 15 locations at NHZ(3), NWPZ(3), NEPZ(4), PZ(3) and CWZ(2). The treatment imposed were 1 - Weedy check, T2 - Weed free check, T3 - Atrazine 1000 g/ha (PE) fb Hand weeding at 25 DAS, T4 - Atrazine 750 g/ha (PE) fb Topramezone 25.2 g/ha at 25 DAS, T5 - Atrazine 750 g/ha (PE) fb Tembotrione 120 g/ha at 25 DAS, T6 - Atrazine 1000 g/ha (PE) fb Topramezone 25.2 g/ha at 25 DAS, T7 - Atrazine 1000 g/ha (PE) fb Tembotrione 120 g/ha at 25 DAS, T8 - Topramezone 25.2 g/ha + Atrazine 750 g/ha at 15 DAS and T9 - Tembotrione 120 g/ha + Atrazine 750 g/ha at 15 DAS.The weed caused losses of 48.8% in maize yield during *kharif* 2019. The percent losses in maize grain yield varied at various locations like in NHZ (45.4 to 56.3), NWPZ (49.2 to 80.4), NEPZ(29.2 to 45.3), PZ(30.9 to 49.6) and CWZ (46.8 to 51.3).All the pre and post emergence weed management treatments (T4 to T9) gave significantly higher yield and net return with reduction of weed density over recommended T3 treatment at Bajaura while none of these treatment outperformed over T3 at Chhindwara. Thebest treatment for yield and net returns was T9 at Karnal, Ludhiana and Pedapuram; T8 at Bajaura, Imphal and Vagarai;T7 at Chitrakoot; T6 at Srinagar, Pantnagar, Ranchi, Coimbatore and Ambikapur and T4 at Dholi.

Table 1: Performance of pre release late maturity genotypes in *Kharif* under varying nutrient levels in North West Plain Zone (NWPZ).

Density	Nutrient levels	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)		Cob yield (kg/ha)	Plants ('000/ha)	
			Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Karnal	Ludhiana
Normal	RDF	ADV1390164	8058	6160	18142	6396	9633	65.6	80.6
		CP 858	9235	5388	13231	8006	11347	65.6	78.4
		HT17169	7595	6048	19511	7126	9373	65.3	76.4
		SUPER1818	5755	5938	24426	6160	7167	65.0	77.0
		JH 16081	5683	4910	17555	7716	7040	65.3	75.6
		B-57	5721	4736	15555	6382	7093	65.3	75.6
		JH 16041	7543	5702	21778	7410	9167	64.7	75.6
		BIO 218	6499	4722	31084	7868	7800	64.7	75.0
		KMH-463	7159	5480	26520	7368	8553	64.7	77.0
		BIO 9682 (C)	6121	5666	28742	6138	7593	64.2	78.4
		NK 6240 (C)	7873	4924	24684	7014	9640	65.0	76.4
	150% RDF	ADV1390164	9263	6388	21511	8000	11067	64.4	81.2
		CP 858	10036	5924	17911	9298	12353	64.7	79.8
		HT17169	8530	6590	22200	8298	10533	64.4	78.4
		SUPER1818	7882	6646	36471	7584	9813	65.0	79.2
		JH 16081	6456	5770	23422	8966	8007	65.0	76.4
		B-57	7463	5278	18089	7660	9247	64.7	77.8
		JH 16041	7956	6146	25751	8944	9667	64.7	76.4
		BIO 218	9011	5416	34293	9230	10820	65.6	76.4
		KMH-463	10871	5716	31004	8604	12993	64.4	79.2
		BIO 9682 (C)	6816	6402	32551	7396	8460	65.6	79.2
		NK 6240 (C)	8536	5472	27551	8076	10447	65.3	77.8
High	RDF	ADV1390164	8716	6798	22539	9118	10417	81.6	106.2
		CP 858	10984	6792	14711	10396	13500	81.3	102.0
		HT17169	7778	6430	21055	9472	9592	81.6	103.4
		SUPER1818	9522	6416	28750	8680	11850	81.6	102.8
		JH 16081	8668	6396	20144	10056	10742	82.3	100.6
		B-57	8789	6160	17611	8792	10900	81.6	98.0
		JH 16041	8919	6278	20444	9514	10833	81.6	100.0
		BIO 218	10074	5868	33983	10062	12092	81.9	98.6
		KMH-463	10750	7028	22694	9542	12850	81.6	105.6
		BIO 9682 (C)	8120	5834	32333	8632	10075	81.3	102.8
		NK 6240 (C)	7932	5938	27061	9292	9708	81.6	102.0
	150% RDF	ADV1390164	10493	7020	23589	10362	12542	81.9	106.2
		CP 858	13062	6680	18000	12188	16050	81.3	103.4
		HT17169	9698	7042	22555	10520	11967	81.3	104.2
		SUPER1818	10326	6770	30444	10230	12858	81.6	104.2
		JH 16081	10326	6744	20944	10770	12800	81.6	102.0
		B-57	11033	6604	17633	10320	13675	81.6	99.4
		JH 16041	10375	7098	19755	10736	12600	82.3	100.6
		BIO 218	11792	6876	36533	10862	14150	81.6	100.0
		KMH-463	11834	7966	23978	10618	14142	81.6	106.2
		BIO 9682 (C)	9100	6938	33622	10104	11283	80.9	103.4
		NK 6240 (C)	10017	6834	28911	10458	12267	81.6	102.8
Mean of location			8826.6	6180.2	24301.7	8871.8	10788.7	73.3	90.0
Normal			7730	5702	24181	7710	9446	65.0	77.6
High			9923	6660	24422	10032	12131	81.6	102.4
CD at 5%			1138.3	313.4	123.5	358.6	1369.1	0.3	1.2
CV (%)			17.2	6.8	0.7	5.4	16.9	0.6	1.8

A-2

Density	Nutrient levels	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)		Cob yield (kg/ha)	Plants ('000/ha)	
			Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Karnal	Ludhiana
RDF			8068	5892	22843	8234	9862	73.3	89.4
150% RDF			9585	6470	25760	9510	11715	73.2	90.6
CD at 5%			526.8	377.2	895.8	510.8	649.1	NS	1.2
CV (%)			12.3	12.6	7.6	11.9	12.4	1.6	2.5
ADV1390164			9133	6592	21445	8468	10915	73.4	93.6
CP 858			10829	6196	15963	9972	13312	73.2	91
HT17169			8400	6528	21330	8854	10366	73.1	90.6
SUPER1818			8371	6442	30023	8164	10422	73.3	90.8
JH 16081			7783	5954	20517	9376	9647	73.5	88.8
B-57			8251	5694	17222	8288	10229	73.3	87.6
JH 16041			8698	6306	21932	9152	10567	73.3	88.2
BIO 218			9344	5720	33973	9506	11215	73.5	87.6
KMH-463			10153	6546	26049	9032	12135	73.1	92
BIO 9682 (C)			7539	6210	31812	8068	9353	73.0	91
NK 6240 (C)			8589	5792	27052	8710	10515	73.4	89.8
CD at 5%			560.9	539.2	1338.8	771.4	668.0	NS	2.6
CV (%)			7.8	10.7	6.8	10.7	7.6	1.4	3.5

Treatment	Pantnagar				
	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants (000/ha)	Cobs (000/ha)	Plant height (cm)
Nutrient level					
RDF(120:60:40)	6,922	11,126	59.3	59.3	175.5
150% RDF	7,712	11,811	60.3	60.3	180.1
CD (5%)	445	NS	NS	NS	2.7
CV (%)	12.2	14.4	7.9	7.9	3.1
Genotypes					
ADV1390164	7,842	12,659	62.3	62.3	171.4
CP 858	7,473	11,667	61.1	61.1	177.0
HT17169	6,919	13,849	63.5	63.5	176.0
SUPER1818	8,259	10,992	59.9	59.9	182.2
JH 16081	7,163	12,460	58.7	58.7	173.3
B-57	6,656	9,643	60.7	60.7	177.3
JH 16041	8,377	11,270	57.1	57.1	175.6
BIO 218	7,303	12,262	55.2	55.2	180.6
KMH-463	6,775	10,635	57.9	57.9	180.2
BIO 9682 (C)	6,212	10,992	60.3	60.3	176.2
NK 6240 (C)	7,509	9,722	61.1	61.1	186.0
CD (5%)	1,043	1,928	NS	NS	6.5
CV (%)	12.2	14.4	7.9	7.9	3.1

Density	Nutrient levels	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling		Days to 50% silking	
			Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Ludhiana
Normal	RDF	ADV1390164	65.6	79.8	212.7	185.7	49.0	57.0	52.3	59.7
		CP 858	65.6	77.0	214.7	244.3	49.3	56.0	52.3	58.7
		HT17169	65.3	73.0	211.3	222.3	48.3	55.0	52.3	58.0
		SUPER1818	65.0	73.6	209.7	223.0	50.3	55.7	52.3	58.3
		JH 16081	65.3	71.6	225.3	243.3	51.3	55.0	52.3	58.3

A-3

Density	Nutrient levels	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling		Days to 50% silking	
			Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Ludhiana
		B-57	65.3	71.6	188.3	222.7	49.0	52.7	52.3	55.3
		JH 16041	64.7	72.2	233.3	231.3	50.7	52.3	52.3	55.0
		BIO 218	64.7	70.2	234.0	222.7	52.0	55.3	52.3	58.0
		KMH-463	64.7	75.0	228.0	229.3	52.7	54.0	52.3	56.7
		BIO 9682 (C)	64.2	73.6	228.7	212.0	52.0	55.0	52.3	57.7
		NK 6240 (C)	65.0	73.6	215.3	225.0	52.3	53.7	52.3	56.3
	150% RDF	ADV1390164	64.4	80.6	261.0	235.3	46.3	54.3	52.3	56.3
		CP 858	64.7	78.4	258.7	251.3	46.7	54.3	52.3	56.3
		HT17169	64.4	75.6	227.0	224.0	45.7	54.0	52.3	56.0
		SUPER1818	65.0	76.4	232.7	228.3	45.7	55.0	52.3	57.0
		JH 16081	65.0	73.6	246.7	245.3	49.7	54.7	52.3	57.0
		B-57	64.7	74.4	219.7	225.7	50.0	52.0	52.3	54.0
		JH 16041	64.7	73.6	257.7	235.7	45.7	52.0	52.3	54.0
		BIO 218	65.6	72.2	251.0	226.3	52.0	54.3	52.3	56.3
		KMH-463	64.4	77.0	234.0	235.7	52.0	53.3	52.3	55.3
		BIO 9682 (C)	65.6	77.0	224.7	216.7	52.3	54.3	52.3	56.3
		NK 6240 (C)	65.3	75.0	217.7	231.7	52.7	53.0	52.3	55.0
High	RDF	ADV1390164	81.6	103.4	237.3	228.7	48.7	57.3	52.3	61.0
		CP 858	81.3	98.6	246.3	246.7	47.7	56.3	52.3	60.0
		HT17169	81.6	100.0	227.3	231.0	47.3	55.3	52.3	59.0
		SUPER1818	81.6	98.6	231.7	226.7	48.7	56.3	52.3	60.0
		JH 16081	82.3	95.8	247.7	248.0	51.7	56.0	52.3	58.7
		B-57	81.6	93.8	218.7	231.0	51.3	53.0	52.3	56.7
		JH 16041	81.6	95.8	242.0	232.7	50.7	53.7	52.3	57.3
		BIO 218	81.9	93.0	253.3	230.0	52.0	56.0	52.3	59.7
		KMH-463	81.6	102.0	241.3	231.7	51.7	54.7	52.3	58.3
		BIO 9682 (C)	81.3	97.2	225.0	216.3	51.0	55.7	52.3	59.3
		NK 6240 (C)	81.6	98.6	220.0	230.0	52.7	54.7	52.3	58.3
	150% RDF	ADV1390164	81.9	103.4	259.3	236.7	47.0	56.3	52.3	59.0
		CP 858	81.3	100.6	250.7	252.0	48.0	54.0	52.3	56.7
		HT17169	81.3	100.0	240.7	226.0	47.7	54.7	52.3	57.3
		SUPER1818	81.6	100.0	239.3	229.3	51.0	55.3	52.3	58.0
		JH 16081	81.6	98.0	254.3	246.3	50.7	54.0	52.3	56.7
		B-57	81.6	95.8	224.0	228.0	50.7	52.0	52.3	54.7
		JH 16041	82.3	97.2	258.7	241.3	54.0	52.7	52.3	55.3
		BIO 218	81.6	95.2	259.7	230.3	53.0	55.7	52.3	58.3
		KMH-463	81.6	102.8	248.3	238.0	52.7	55.3	52.3	58.0
		BIO 9682 (C)	80.9	99.4	229.3	218.3	52.7	54.7	52.3	57.3
		NK 6240 (C)	81.6	98.6	231.7	235.3	52.7	54.3	52.3	57.0
Mean of location			73.3	86.6	234.5	230.7	50.2	54.6	52.3	57.3
Normal			65.0	74.8	228.7	228.1	49.8	54.2	52.3	56.6
High			81.6	98.6	240.3	233.4	50.6	54.9	52.3	58.0
CD at 5%			0.3	2.4	2.6	NS	NS	NS	NS	NS
CV (%)			0.6	3.7	1.4	7.0	5.9	5.0	0.0	5.0
RDF			73.3	85.8	226.9	227.9	50.5	55.0	52.3	58.2
150% RDF			73.2	87.6	242.1	233.5	49.9	54.1	52.3	56.5
CD at 5%			NS	NS	6.0	NS	NS	0.9	NS	1.2
CV (%)			1.6	4.4	5.3	13.8	5.2	3.3	0.0	4.3
ADV1390164			73.4	91.8	242.6	221.6	47.8	56.3	52.3	59.0
CP 858			73.2	88.8	242.6	248.6	47.9	55.2	52.3	57.9
HT17169			73.1	87.2	226.6	225.8	47.3	54.8	52.3	57.6

Cont…

Density	Nutrient levels	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling		Days to 50% silking	
			Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Ludhiana
SUPER1818			73.3	87.2	228.3	226.8	48.9	55.6	52.3	58.3
JH 16081			73.5	84.8	243.5	245.8	50.8	54.9	52.3	57.7
B-57			73.3	83.8	212.7	226.8	50.3	52.4	52.3	55.2
JH 16041			73.3	84.8	247.9	235.3	50.3	52.7	52.3	55.4
BIO 218			73.5	82.6	249.5	227.3	52.3	55.3	52.3	58.1
KMH-463			73.1	89.2	237.9	233.7	52.3	54.3	52.3	57.1
BIO 9682 (C)			73.0	86.8	226.9	215.8	52.0	54.9	52.3	57.7
NK 6240 (C)			73.4	86.4	221.2	230.5	52.6	53.9	52.3	56.7
CD at 5%			NS	3.6	5.7	13.7	1.3	1.0	0.0	1.1
CV (%)			1.4	5.2	3.0	7.3	3.1	2.2	0.0	2.4

Density	Nutrient levels	Genotypes	Days to Maturity	Barren plants ('000/ha)	Shelling (%)	Net returns (Rs./ha)		B:C ratio	
			Karnal	Ludhiana	Karnal	Karnal	Ludhiana	Karnal	Ludhiana
Normal	RDF	ADV1390164	87.7	0.69	83.7	109395	71055	3.69	1.72
		CP 858	88.7	0.69	81.3	130407	59885	4.19	1.45
		HT17169	89.0	1.74	81.0	101122	70041	3.49	1.69
		SUPER1818	91.7	1.74	80.3	68289	66994	2.69	1.62
		JH 16081	89.0	2.08	80.7	66992	51389	2.66	1.24
		B-57	88.0	2.08	80.7	67669	46837	2.68	1.13
		JH 16041	87.3	1.74	82.3	100205	64480	3.47	1.56
		BIO 218	90.0	2.43	83.3	81569	48384	3.02	1.17
		KMH-463	89.7	1.04	83.7	93337	60652	3.30	1.47
		BIO 9682 (C)	90.3	2.43	80.7	74813	62365	2.85	1.51
		NK 6240 (C)	88.3	1.39	81.7	106089	50783	3.61	1.23
	150% RDF	ADV1390164	88.7	0.69	83.7	127465	73241	3.88	1.63
		CP 858	89.7	0.69	81.3	141262	66889	4.18	1.49
		HT17169	90.0	1.39	81.0	114385	77023	3.59	1.71
		SUPER1818	90.3	1.39	80.3	102821	77109	3.33	1.71
		JH 16081	89.0	1.39	80.7	77360	63892	2.76	1.42
		B-57	91.0	1.74	80.7	95332	53944	3.17	1.20
		JH 16041	88.7	1.39	82.3	104130	70242	3.36	1.56
		BIO 218	91.7	2.08	83.3	122966	58188	3.78	1.29
		KMH-463	90.0	1.04	83.7	156169	62515	4.51	1.39
		BIO 9682 (C)	90.3	1.74	80.7	83794	72752	2.91	1.62
		NK 6240 (C)	89.0	1.39	81.7	114493	57749	3.59	1.28
High	RDF	ADV1390164	88.7	1.39	83.7	121137	83355	3.97	1.93
		CP 858	90.3	1.74	81.3	161611	84770	4.93	1.96
		HT17169	90.3	1.74	81.0	104386	77523	3.57	1.80
		SUPER1818	90.0	2.08	80.3	135515	76337	4.31	1.77
		JH 16081	89.0	2.43	80.7	120278	77633	3.95	1.80
		B-57	89.0	2.08	80.7	122446	72102	4.00	1.67
		JH 16041	88.0	2.08	82.3	124756	74976	4.06	1.74
		BIO 218	89.7	2.78	83.3	145383	68669	4.55	1.59
		KMH-463	88.7	1.74	83.7	157439	87759	4.83	2.03
		BIO 9682 (C)	88.3	2.78	80.7	110494	66362	3.72	1.54

Density	Nutrient levels	Genotypes	Days to Maturity	Barren plants ('000/ha)	Shelling (%)	Net returns (Rs./ha)		B:C ratio	
			Karnal	Ludhiana	Karnal	Karnal	Ludhiana	Karnal	Ludhiana
		NK 6240 (C)	88.0	1.74	81.7	107135	68924	3.64	1.60
	150% RDF	ADV1390164	90.7	1.39	83.7	149427	84989	4.36	1.82
		CP 858	91.3	1.39	81.3	195279	81396	5.35	1.74
		HT17169	91.7	2.08	81.0	135229	85535	4.05	1.83
		SUPER1818	92.0	2.08	80.3	146434	80581	4.30	1.72
		JH 16081	90.3	2.08	80.7	146437	80759	4.30	1.73
		B-57	89.3	1.74	80.7	159059	77856	4.57	1.66
		JH 16041	88.7	1.74	82.3	147315	86738	4.31	1.85
		BIO 218	91.0	2.43	83.3	172610	83110	4.87	1.78
		KMH-463	91.7	1.74	83.7	173354	101353	4.88	2.17
		BIO 9682 (C)	90.3	2.08	80.7	124565	83264	3.81	1.78
		NK 6240 (C)	89.7	2.08	81.7	140926	81918	4.17	1.75
Mean of location			89.7	1.74	81.8	121392.6	71643.6	3.85	1.62
Normal			89.5	1.50	81.8	101821	63019	3.40	1.46
High			89.8	1.97	81.8	140964	80269	4.30	1.78
CD at 5%			NS	NS	NS	20318.9	5753.5	0.5	0.1
CV (%)			2.9	47.0	0.0	22.3	10.7	16.4	11.7
RDF			89.1	1.85	81.8	109567	67785	3.69	1.60
150% RDF			90.2	1.63	81.8	133219	75502	4.00	1.64
CD at 5%			0.6	NS	NS	9402.6	7024.7	0.2	NS
CV (%)			1.4	36.6	0.0	16.0	20.3	11.4	21.6
ADV1390164			88.9	1.04	83.7	126856	78160	3.98	1.77
CP 858			90.0	1.13	81.3	157140	73235	4.67	1.66
HT17169			90.3	1.74	81.0	113780	77531	3.67	1.76
SUPER1818			91.0	1.82	80.3	113265	75255	3.66	1.71
JH 16081			89.3	2.00	80.7	102767	68418	3.42	1.55
B-57			89.3	1.91	80.7	111126	62685	3.60	1.42
JH 16041			88.2	1.74	82.3	119101	74109	3.80	1.68
BIO 218			90.6	2.43	83.3	130632	64588	4.05	1.46
KMH-463			90.0	1.39	83.7	145075	78070	4.38	1.76
BIO 9682 (C)			89.8	2.26	80.7	98416	71186	3.32	1.61
NK 6240 (C)			88.8	1.65	81.7	117161	64844	3.75	1.47
CD at 5%			0.8	0.5	0.7	10011.4	9325.4	0.2	0.2
CV (%)			1.1	37.6	1.0	10.2	16.0	7.4	16.1

Treatment	Pantnagar				
	Days to 50% Tasseling	Days to 50% Silking	100-grain weight (g)	Net return (Rs./ha)	B:C ratio
Nutrient level					
RDF (120:60:40)	55.2	58.4	21.9	86,620	2.46
150% RDF	55.2	58.4	22.9	97,451	2.54
CD (5%)	NS	NS	0.8	7825	NS
CV (%)	1.1	0.9	7.3	17.0	17.2
Genotypes					
ADV1390164	55.5	58.7	21.9	101282	2.76

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Treatment	Pantnagar				
	Days to 50% Tasseling	Days to 50% Silking	100-grain weight (g)	Net return (Rs./ha)	B:C ratio
CP 858	55.5	58.5	20.9	94777	2.57
HT17169	55.5	58.5	22.0	85025	2.30
SUPER1818	55.3	58.5	23.0	108614	2.96
JH 16081	54.8	58.2	24.7	89327	2.42
B-57	55.0	58.3	18.6	80406	2.19
JH 16041	55.5	58.7	25.2	110686	3.01
BIO 218	54.8	58.2	21.6	91782	2.50
KMH-463	55.2	58.5	23.2	82494	2.23
BIO 9682 (C)	55.5	58.7	19.2	72584	1.97
NK 6240 (C)	54.8	58.2	26.2	95413	2.59
CD (5%)	NS	NS	1.9	18351	0.50
CV (%)	1.1	0.9	7.3	17.0	17.2

*Gross return was calculated by considering minimum support price of maize Rs. 1760/quintal (2019-20).

Table 2: Performance of pre release late maturity genotypes in *Kharif* under varying planting densities and nutrient levels in North East Plain Zone (NEPZ).

Density	Nutrient levels	Genotype	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 grain weight (g)	Net return (Rs)	BC ration
			Bhubaneswar									
Normal	RDF	RASI 3499	4751	9500	76.4	76.7	168.5	55.0	57.0	23.9	35759	1.79
		CP 858	6059	13167	77.2	77.2	187.1	54.3	56.0	26.1	58000	2.29
		JH 16041	5614	10083	73.6	73.9	204.1	53.0	54.0	24.6	50438	2.12
		CMH 08-287 (C)	5850	9111	79.2	79.2	195.7	52.3	53.7	25.0	54442	2.21
	150% RDF	RASI 3499	4908	11306	74.7	74.7	187.6	53.0	55.0	24.3	38428	1.85
		CP 858	6425	15111	76.1	76.4	198.0	54.3	56.3	26.5	64228	2.43
		JH 16041	5823	11194	72.2	72.8	205.6	51.0	53.0	25.1	53997	2.20
		CMH 08-287 (C)	6085	10083	76.1	76.1	196.9	53.3	55.0	26.1	58445	2.30
High	RDF	RASI 3499	5431	13000	92.5	92.5	177.7	53.0	54.7	23.5	47324	2.05
		CP 858	7341	18389	91.1	91.4	219.1	53.3	54.3	27.2	79797	2.77
		JH 16041	6687	15500	95.0	95.0	197.4	53.0	54.7	25.9	68676	2.53
		CMH 08-287 (C)	6975	12306	92.8	93.1	199.6	52.0	53.3	26.7	73569	2.63
	150% RDF	RASI 3499	5693	13556	94.7	94.7	176.1	53.3	54.7	24.6	51773	2.15
		CP 858	7603	19528	88.3	88.9	209.5	53.0	54.0	28.3	84245	2.87
		JH 16041	7210	17028	92.5	92.5	198.9	53.3	54.7	26.6	77573	2.72
		CMH 08-287 (C)	7263	13500	91.9	92.2	196.8	52.7	53.7	26.2	81523	2.81
Mean of location			6232.2	13272.6	84.0	84.2	194.9	53.1	54.6	25.7	61138.4	2.36
Normal			5689	11194	75.7	75.9	192.9	53.3	55.0	25.2	51717	2.15
High			6775	15351	92.4	92.5	196.9	53.0	54.3	26.1	70560	2.57
CD at 5%			158.6	2005.6	3.7	3.4	3.7	NS	NS	0.9	2696.2	0.1
CV (%)			2.0	12.2	3.5	3.3	1.5	4.8	6.9	2.7	3.6	2.0
RDF			6088	12632	84.7	84.9	193.6	53.3	54.7	25.4	58501	2.30
150% RDF			6376	13913	83.3	83.5	196.2	53.0	54.5	26.0	63776	2.42
CD at 5%			NS	715.7	NS	NS	NS	NS	NS	0.5	NS	NS
CV (%)			9.6	6.7	7.9	7.4	5.4	1.6	2.2	2.6	16.6	9.5
RASI 3499			5195	11840	84.6	84.7	177.5	53.6	55.3	24.1	43321	1.96
CP 858			6857	16549	83.2	83.5	203.4	53.8	55.2	27.0	71568	2.59
JH 16041			6334	13451	83.3	83.5	201.5	52.6	54.1	25.6	62671	2.39
CMH 08-287 (C)			6543	11250	85.0	85.1	197.3	52.6	53.9	26.0	66995	2.49
CD at 5%			208.7	1076.1	NS	NS	7.6	0.9	1.0	0.8	3547.1	0.1
CV (%)			4.0	9.6	4.5	4.4	4.6	2.0	2.2	3.9	6.9	4.0

Table 3: Performance of pre release late maturity genotypes in *Kharif* under varying planting densities and nutrient levels in Peninsular Zone (PZ).

Density	Nutrient levels	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)		Cob yield (kg/ha)
			Coimbatore	Karimnagar	Coimbatore	Karimnagar	Karimnagar
Normal	RDF	ADV 1390064	8803	8985	12468	10544	11730
		CMH 08-287 (C)	7758	7993	14261	11410	10841
	150% RDF	ADV 1390064	9157	9032	13485	11955	11754
		CMH 08-287 (C)	8386	8027	14834	10384	10937
High	RDF	ADV 1390064	9595	8876	13399	12730	11842
		CMH 08-287 (C)	8456	7967	15544	11121	10692
	150% RDF	ADV 1390064	9981	8864	14508	13076	11859
		CMH 08-287 (C)	9141	7639	16069	9936	10240
Mean of location			8909.8	8422.9	14321.1	11394.6	11236.9
66,000 (60x25 cm)			8526	8509	13762	11073	11316
83,000 (60x20 cm)			9293	8337	14880	11716	11158
CD at 5%			NS	NS	NS	NS	NS
CV (%)			6.1	7.4	7.0	13.7	5.5
RDF			8653	8455	13918	11451	11276
150% RDF			9166	8391	14724	11338	11197
CD at 5%			NS	NS	NS	NS	NS
CV (%)			8.2	5.4	5.3	14.7	7.0
ADV 1390064			9384	8939	13465	12076	11796
CMH 08-287 (C)			8435	7907	15177	10713	10677
CD at 5%			713.8	583.2	1020.3	1053.1	7.9
CV (%)			8.5	9.0	7.6	12.0	7.9

Density	Nutrient levels	Genotypes	Plants ('000/ha)		Cobs ('000/ha)	Plant height (cm)	
			Coimbatore	Karimnagar	Coimbatore	Coimbatore	Karimnagar
Normal	RDF	ADV 1390064	63.0	77.9	57.4	209.0	157.3
		CMH 08-287 (C)	61.1	75.3	57.4	243.3	206.5
	150% RDF	ADV 1390064	62.4	73.1	58.0	218.1	164.3
		CMH 08-287 (C)	63.6	74.0	59.3	246.0	199.8
High	RDF	ADV 1390064	79.6	89.7	74.1	210.8	160.3
		CMH 08-287 (C)	79.6	88.8	73.5	247.3	206.3
	150% RDF	ADV 1390064	79.0	87.8	75.3	219.4	167.0
		CMH 08-287 (C)	79.6	88.1	75.3	248.4	200.0
Mean of location			71.0	81.8	66.3	230.3	182.7
66,000 (60x25 cm)			62.5	75.1	58.1	229.1	181.9
83,000 (60x20 cm)			79.5	88.6	74.5	231.5	183.4
CD at 5%			4.8	1.7	7.0	NS	NS
CV (%)			3.8	1.8	6.0	9.2	2.6
RDF			70.8	82.9	65.6	227.6	182.6
150% RDF			71.2	80.8	67.0	233.0	182.8
CD at 5%			NS	NS	NS	NS	NS
CV (%)			2.8	3.7	6.3	6.7	3.6
ADV 1390064			71.0	82.1	66.2	214.3	162.2
CMH 08-287 (C)			71.0	81.6	66.4	246.3	203.1
CD at 5%			NS	NS	NS	9.4	5.0
CV (%)			7.4	5.6	4.5	4.3	3.5

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Density	Nutrient levels	Genotypes	Ear height (cm)	Days to 50% tasseling		Days to 50% silking	
			Karimnagar	Coimbatore	Karimnagar	Coimbatore	Karimnagar
Normal	RDF	ADV 1390064	80.8	56.0	46.5	59.7	50.3
		CMH 08-287 (C)	106.3	57.3	47.8	60.7	51.0
	150% RDF	ADV 1390064	85.3	56.7	46.8	60.3	49.8
		CMH 08-287 (C)	101.5	58.0	48.0	61.7	51.3
High	RDF	ADV 1390064	81.0	55.3	47.0	58.3	50.5
		CMH 08-287 (C)	99.5	56.3	47.8	60.0	51.0
	150% RDF	ADV 1390064	85.8	56.0	46.5	59.3	50.3
		CMH 08-287 (C)	99.0	57.0	48.3	57.7	51.8
Mean of location			92.4	56.6	47.3	59.7	50.7
66,000 (60x25 cm)			93.4	57.0	47.3	60.6	50.6
83,000 (60x20 cm)			91.3	56.2	47.4	58.8	50.9
CD at 5%			NS	NS	NS	NS	NS
CV (%)			3.5	5.3	1.8	3.7	1.3
RDF			91.9	56.3	47.3	59.7	50.7
150% RDF			92.9	56.9	47.4	59.8	50.8
CD at 5%			NS	NS	NS	NS	NS
CV (%)			4.9	4.4	1.4	4.8	2.0
ADV 1390064			83.2	56.0	46.7	59.4	50.2
CMH 08-287 (C)			101.6	57.2	47.9	60.0	51.3
CD at 5%			4.1	NS	0.3	NS	0.4
CV (%)			5.8	4.0	0.7	3.1	1.0

Density	Nutrient levels	Genotypes	100 seed weight (g)		Net return (Rs./ha)		B:C ratio	
			Coimbatore	Karimnagar	Coimbatore	Karimnagar	Coimbatore	Karimnagar
Normal	RDF	ADV 1390064	42.3	42.6	84898	96257	2.42	2.47
		CMH 08-287 (C)	45.3	42.6	71016	78409	2.19	2.20
	150% RDF	ADV 1390064	44.3	41.9	87758	93675	2.39	2.36
		CMH 08-287 (C)	44.8	41.5	77542	75574	2.23	2.10
High	RDF	ADV 1390064	42.1	41.0	94704	90007	2.51	2.29
		CMH 08-287 (C)	45.0	40.9	79769	73654	2.27	2.06
	150% RDF	ADV 1390064	42.3	41.4	98141	88789	2.48	2.25
		CMH 08-287 (C)	45.3	41.4	87102	66740	2.32	1.94
Mean of location			43.9	41.7	85116.3	82888.1	2.35	2.21
66,000 (60x25 cm)			44.2	42.2	80304	85978	2.31	2.28
83,000 (60x20 cm)			43.7	41.2	89929	79798	2.40	2.14
CD at 5%			NS	0.7	NS	NS	NS	NS
CV (%)			3.1	1.6	8.6	13.6	5.26	7.60
RDF			43.7	41.8	82597	84582	2.35	2.25
150% RDF			44.2	41.5	87636	81194	2.36	2.16
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			14.3	10.8	13.6	9.9	7.71	5.44
ADV 1390064			42.8	41.7	91375	92182	2.45	2.34
CMH 08-287 (C)			45.1	41.6	78857	73594	2.25	2.07
CD at 5%			NS	NS	10291.7	10496.9	0.16	0.15
CV (%)			7.9	5.5	12.8	16.4	7.29	8.87

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Density	Nutrient levels	Genotypes	Cob length (cm)		Cob girth (cm)	Cob diameter (cm)	Grain rows/cob	
			Coimbatore	Karimnagar	Coimbatore	Karimnagar	Coimbatore	Karimnagar
Normal	RDF	ADV 1390064	22.1	22.6	15.6	4.8	14.1	13.8
		CMH 08-287 (C)	21.6	19.8	15.5	4.7	14.1	12.5
	150% RDF	ADV 1390064	22.4	22.2	16.4	5.0	14.7	13.7
		CMH 08-287 (C)	21.5	19.9	16.2	4.7	14.1	13.6
High	RDF	ADV 1390064	21.9	20.6	15.6	4.7	13.9	14.0
		CMH 08-287 (C)	20.1	20.1	15.4	4.8	14.1	13.7
	150% RDF	ADV 1390064	22.1	20.7	16.1	4.8	14.8	14.2
		CMH 08-287 (C)	22.2	20.0	16.0	4.7	14.3	13.4
Mean of location			21.8	20.7	15.8	4.8	14.3	13.6
66,000 (60x25 cm)			21.9	21.1	15.9	4.8	14.3	13.4
83,000 (60x20 cm)			21.6	20.3	15.8	4.8	14.3	13.8
CD at 5%			NS	NS	NS	NS	NS	0.3
CV (%)			5.2	15.4	4.2	8.6	7.5	1.8
RDF			21.4	20.7	15.5	4.7	14.1	13.5
150% RDF			22.1	20.7	16.2	4.8	14.5	13.7
CD at 5%			NS	NS	0.4	NS	NS	NS
CV (%)			5.0	9.1	2.3	4.9	4.7	4.2
ADV 1390064			22.1	21.5	15.9	4.8	14.4	13.9
CMH 08-287 (C)			21.4	19.9	15.8	4.7	14.2	13.3
CD at 5%			NS	1.4	NS	NS	NS	0.5
CV (%)			6.0	8.7	2.9	4.4	4.5	4.6

Density	Nutrient levels	Genotypes	Grains/row		Shelling (%)
			Coimbatore	Karimnagar	Karimnagar
Normal	RDF	ADV 1390064	38.8	41.4	76.6
		CMH 08-287 (C)	37.5	37.2	73.8
	150% RDF	ADV 1390064	39.4	40.3	76.9
		CMH 08-287 (C)	38.0	37.7	73.4
High	RDF	ADV 1390064	38.2	39.8	74.9
		CMH 08-287 (C)	36.7	39.4	74.6
	150% RDF	ADV 1390064	38.6	39.8	74.7
		CMH 08-287 (C)	36.9	37.4	74.7
Mean of location			38.0	39.1	74.9
66,000 (60x25 cm)			38.4	39.1	75.2
83,000 (60x20 cm)			37.6	39.1	74.7
CD at 5%			NS	NS	NS
CV (%)			12.4	4.2	2.2
RDF			37.8	39.4	75.0
150% RDF			38.2	38.8	74.9
CD at 5%			NS	NS	NS
CV (%)			10.0	4.7	3.3
ADV 1390064			38.8	40.3	75.8
CMH 08-287 (C)			37.3	37.9	74.1
CD at 5%			NS	1.2	NS
CV (%)			10.5	4.1	3.2

Table 4: Performance of pre release rainfed late maturity genotypes in *Kharif* under varying planting densities and nutrient levels in Central Western Zone (CWZ).

Density	Nutrient levels	Genotypes	Grain yield (kg/ha)			Stover yield (kg/ha)		
			Ambikapur	Godhara*	Udaipur	Ambikapur	Godhara	Udaipur
Normal	RDF	CMH 12 -686	6333	7200	4120	14294	7433	6355
		Bio 9682 ©	5889	7500	4657	13497	7233	7195
	150% RDF	CMH 12 -686	7000	8567	4223	15657	8033	6610
		Bio 9682 ©	6519	7833	4923	14734	7467	7721
High	RDF	CMH 12 -686	6333	5733	4820	14334	4833	7215
		Bio 9682 ©	6111	5533	5523	14103	4767	8299
	150% RDF	CMH 12 -686	7407	8400	5720	16654	7733	8811
		Bio 9682 ©	7074	7000	5623	16033	4867	8675
Mean of location			6583.3	7220.8	4951.3	14913.2	6545.8	7610.2
Normal			6435	7775	4481	14545	7542	6971
High			6731	6667	5422	15281	5550	8250
CD at 5%			NS	NS	718.9	NS	NS	1157.7
CV (%)			5.0	26.6	8.3	4.4	34.2	8.7
RDF			6167	6492	4780	14057	6067	7266
150% RDF			7000	7950	5123	15769	7025	7954
CD at 5%			509.0	NS	297.4	1094.0	NS	494.0
CV (%)			6.8	23.6	5.3	6.5	35.8	5.7
CMH 12 -686			6769	7475	4721	15235	7008	7248
Bio 9682 ©			6398	6967	5182	14592	6083	7973
CD at 5%			NS	NS	252.4	NS	NS	389.9
CV (%)			10.2	25.5	5.4	9.9	39.2	5.4

*Data not to be considered deu to high CV.

Density	Nutrient levels	Genotypes	Plants ('000/ha)			Cobs ('000/ha)		
			Ambikapur	Godhara	Udaipur	Ambikapur	Godhara	Udaipur
Normal	RDF	CMH 12 -686	64.4	49.7	61.3	63.7	48.7	62.7
		Bio 9682 ©	65.2	53.0	61.6	65.2	64.3	62.6
	150% RDF	CMH 12 -686	64.4	50.7	62.7	64.4	51.0	63.9
		Bio 9682 ©	63.0	49.0	61.1	63.0	63.3	62.2
High	RDF	CMH 12 -686	79.3	32.3	78.7	76.7	33.0	80.2
		Bio 9682 ©	80.4	44.7	80.0	77.4	53.7	81.7
	150% RDF	CMH 12 -686	81.1	45.7	78.0	79.6	47.0	79.5
		Bio 9682 ©	81.5	48.3	78.9	78.5	56.7	80.5
Mean of location			72.4	46.7	70.3	71.1	52.2	71.7
Normal			64.3	50.6	61.7	64.1	56.8	62.9
High			80.6	42.8	78.9	78.1	47.6	80.5
CD at 5%			2.6	NS	5.1	4.2	NS	6.9
CV (%)			2.1	19.8	4.1	3.4	25.3	5.5
RDF			72.3	44.9	70.4	70.7	49.9	71.8
150% RDF			72.5	48.4	70.2	71.4	54.5	71.5
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			2.1	19.7	2.4	1.8	13.6	3.1
CMH 12 -686			72.3	44.6	70.2	71.1	44.9	71.6
Bio 9682 ©			72.5	48.8	70.4	71.0	59.5	71.8
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			2.9	37.2	2.0	2.6	30.3	2.9

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Density	Nutrient levels	Genotypes	Plant height (cm)			100-seed weight (gm)	
			Ambikapur	Godhara	Udaipur	Godhara	Udaipur
Normal	RDF	CMH 12 -686	237.5	173.3	214.2	47.0	290.0
		Bio 9682 ©	222.9	151.7	230.4	33.7	260.3
	150% RDF	CMH 12 -686	248.9	185.0	216.2	46.0	291.3
		Bio 9682 ©	243.3	166.7	232.4	34.7	262.0
High	RDF	CMH 12 -686	242.9	170.0	218.3	46.3	288.7
		Bio 9682 ©	234.2	153.3	234.2	32.0	259.0
	150% RDF	CMH 12 -686	255.4	191.7	220.7	47.7	290.0
		Bio 9682 ©	250.2	156.7	234.8	32.7	260.3
Mean of location			241.9	168.5	225.2	40.0	275.2
Normal			238.1	169.2	223.3	40.3	275.9
High			245.7	167.9	227.0	39.7	274.5
CD at 5%			NS	NS	NS	NS	NS
CV (%)			2.7	2.8	13.1	1.8	6.9
RDF			234.4	162.1	224.3	39.8	274.5
150% RDF			249.5	175.0	226.0	40.3	275.9
CD at 5%			8.4	7.9	NS	NS	NS
CV (%)			3.1	4.1	4.2	3.6	2.2
CMH 12 -686			246.2	180.0	217.4	46.8	290.0
Bio 9682 ©			237.6	157.1	233.0	33.3	260.4
CD at 5%			7.0	4.4	7.7	1.6	5.6
CV (%)			3.1	2.8	3.6	4.1	2.2

Density	Nutrient levels	Genotypes	Days to 50% tasseling			Days to 50% Silking		
			Ambikapur	Godhara	Udaipur	Ambikapur	Godhara	Udaipur
Normal	RDF	CMH 12 -686	51.7	51.0	47.0	54.7	56.0	51.0
		Bio 9682 ©	53.7	50.3	47.0	56.7	55.3	51.0
	150% RDF	CMH 12 -686	52.0	50.3	47.0	55.0	55.3	51.0
		Bio 9682 ©	54.0	46.0	47.3	57.0	54.0	51.3
High	RDF	CMH 12 -686	51.7	51.0	47.3	54.7	56.0	51.3
		Bio 9682 ©	53.0	51.0	47.3	56.0	56.0	51.7
	150% RDF	CMH 12 -686	52.3	51.0	47.0	55.3	56.0	51.0
		Bio 9682 ©	52.7	51.0	47.0	55.7	56.0	51.0
Mean of location			52.6	50.2	47.1	55.6	55.6	51.2
Normal			52.8	49.4	47.1	55.8	55.2	51.1
High			52.4	51.0	47.2	55.4	56.0	51.3
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			2.1	2.2	4.1	1.9	2.2	5.8
RDF			52.5	50.8	47.2	55.5	55.8	51.3
150% RDF			52.8	49.6	47.1	55.8	55.3	51.1
CD at 5%			NS	NS	NS	NS	0.4	NS
CV (%)			1.5	3.7	2.9	1.4	0.6	4.5
CMH 12 -686			51.9	50.8	47.1	54.9	55.8	51.1
Bio 9682 ©			53.3	49.6	47.2	56.3	55.3	51.3
CD at 5%			0.9	NS	NS	0.9	NS	NS
CV (%)			1.7	4.3	4.2	1.6	1.4	6.0

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Density	Nutrient levels	Genotypes	Net returns (Rs./ha)			B:C ratio		
			Ambikapur	Godhara	Udaipur	Ambikapur	Godhara	Udaipur
Normal	RDF	CMH 12 -686	62551	136790	38353	1.99	6.32	1.61
		Bio 9682 ©	56469	142290	46473	1.80	6.53	1.95
	150% RDF	CMH 12 -686	70794	164810	38144	2.16	7.10	1.48
		Bio 9682 ©	64056	147560	48765	1.96	6.42	1.89
High	RDF	CMH 12 -686	62652	99576	48222	1.99	4.80	2.01
		Bio 9682 ©	60031	95756	58830	1.91	4.64	2.45
	150% RDF	CMH 12 -686	77032	159526	60254	2.35	6.75	2.32
		Bio 9682 ©	72413	124526	58822	2.21	5.49	2.26
Mean of location			65749.7	133854.3	49732.9	2.05	6.01	2.00
Normal			63467	147863	42934	1.98	6.59	1.73
High			68032	119846	56532	2.12	5.42	2.26
CD at 5%			NS		10942.3	NS		0.4
CV (%)			7.1		12.5	7.1		12.2
RDF			60426	118603	47969	1.92	5.57	2.00
150% RDF			71074	149106	51496	2.17	6.44	1.99
CD at 5%			7385.8		NS	0.2		NS
CV (%)			9.9		8.1	10.0		7.9
CMH 12 -686			68257	140176	46243	2.12	6.24	1.85
Bio 9682 ©			63242	127533	53223	1.97	5.77	2.14
CD at 5%			NS		3807.5	NS		0.2
CV (%)			15.0		8.1	15.1		8.3

Density	Nutrient levels	Genotypes	Insect (FAW) damage (%)	FAW attack at 30 DAS on % plant population	FAW attack at 45 DAS on % plant population	FAW attack at silking stage on % plant population
			Godhara	Udaipur	Udaipur	Udaipur
Normal	RDF	CMH 12 -686	3.33	26.0	48.8	62.9
		Bio 9682 ©	1.00	25.9	48.3	63.4
	150% RDF	CMH 12 -686	3.33	25.7	52.0	60.0
		Bio 9682 ©	2.67	25.2	50.9	62.4
High	RDF	CMH 12 -686	2.00	24.6	54.4	60.7
		Bio 9682 ©	2.67	24.6	48.7	62.3
	150% RDF	CMH 12 -686	2.67	25.9	51.5	57.7
		Bio 9682 ©	2.67	25.5	53.6	60.9
Mean of location			2.54	25.4	51.0	61.3
Normal			2.58	25.7	50.0	62.2
High			2.50	25.2	52.1	60.4
CD at 5%			NS	NS	NS	NS
CV (%)			48.9	15.8	12.7	9.5
RDF			2.25	25.3	50.1	62.3
150% RDF			2.83	25.6	52.0	60.2
CD at 5%			0.5	NS	NS	NS
CV (%)			18.0	14.7	3.9	3.8
CMH 12 -686			2.8	25.6	51.7	60.3
Bio 9682 ©			2.3	25.3	50.4	62.3
CD at 5%			0.5	NS	NS	NS
CV (%)			19.7	12.7	7.3	5.6

Table 5: Performance of pre release medium maturity genotypes in *Kharif* under varying nutrient levels in Northern Hill Zone (NHZ).

Nutrient levels	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)		Cob yield (kg/ha)	Plants ('000/ha)	
		Bajaura	Gossaingaon	Bajaura	Gossaingaon	Gossaingaon	Bajaura	Gossaingaon
RDF	PM17102M	11674	4504	15527	6567	5600	81.5	54.7
	NMH-4053	11534	5221	16378	7473	6133	81.1	67.3
	IMHBG-17K-15	10852	4903	15627	7090	5767	77.8	60.3
	DKC8181(IR8004)	11120	4974	15012	7271	6133	80.0	59.7
	KMH-16-29	11652		14915			79.2	
	Bio 9544 (C)	10968	4462	14223	6610	5833	75.6	58.7
	DHM 121 (C)	9788	4602	14007	6847	5533	79.1	54.7
	CMH 08-292 (C)	10394	4594	15072	6847	5700	80.0	61.3
150% RDF	PM17102M	12171	5113	16100	7320	5833	81.7	65.3
	NMH-4053	12159	5947	17996	8110	7067	81.5	77.0
	IMHBG-17K-15	12044	4645	17103	7025	5567	79.9	58.0
	DKC8181(IR8004)	11735	5105	16429	7369	6033	80.0	60.7
	KMH-16-29	12255		15196			79.1	
	Bio 9544 (C)	12274	4917	15220	7176	6033	78.5	58.7
	DHM 121 (C)	11431	4727	15255	6936	5700	79.2	55.7
	CMH 08-292 (C)	10631	4786	15604	7040	5567	80.1	57.3
Location mean		11417.7	4892.7	15603.9	7120.0	5892.9	79.6	60.7
C.D.(5%) AiBj-AiBk		1582.3	949.1	2147.5	956.1	946.5	4.6	12.5
C.D.(5%) AiBk-AjBk		1669.8	887.6	2359.9	980.1	915.6	5.1	14.3
F(5%)		NS	NS	NS	NS	NS	NS	NS
RDF		10998	4751	15095	6958	5814	79.3	59.5
150% RDF		11838	5034	16113	7282	5971	80.0	61.8
C.D.(5%) Ai-Aj		894.7	146.6	1426.8	487.0	309.4	3.1	9.6
C.V.(%) Error A		6.3	2.3	7.4	5.2	4.0	3.2	11.9
F(5%)		NS	S	NS	NS	NS	NS	NS
PM17102M		11923	4809	15814	6943	5717	81.6	60.0
NMH-4053		11847	5584	17187	7792	6600	81.3	72.2
IMHBG-17K-15		11448	4774	16365	7057	5667	78.8	59.2
DKC8181(IR8004)		11428	5039	15721	7320	6083	80.0	60.2
KMH-16-29		11954		15056			79.2	
Bio 9544 (C)		11621	4690	14721	6893	5933	77.0	58.7
DHM 121 (C)		10609	4664	14631	6891	5617	79.1	55.2
CMH 08-292 (C)		10513	4690	15338	6944	5633	80.0	59.3
C.D.(5%)Bi-Bj		1119	671.1	1519	676.1	669.3	3.2	8.8
C.V.(%)ErrorB		8.3	11.5	8.2	8.0	9.5	3.4	12.2
F(5%)		NS	NS	S	NS	NS	NS	S

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Nutrient levels	Genotypes	Cobs ('000/ha)		Plant height (cm)		Ear height (cm)	Days 50% tasseling	
		Bajaura	Gossaingaon	Bajaura	Gossaingaon	Gossaingaon	Bajaura	Gossaingaon
RDF	PM17102M	85.0	56.3	230.5	198.8	67.3	59.3	55.0
	NMH-4053	80.7	65.7	244.1	193.7	64.6	62.0	57.7
	IMHBG-17K-15	74.9	60.0	247.2	202.7	83.3	62.0	56.3
	DKC8181(IR8004)	78.6	59.7	230.0	202.9	77.7	60.0	53.7
	KMH-16-29	79.4		210.9			58.3	
	Bio 9544 (C)	82.9	58.7	219.5	193.4	80.3	62.0	54.3
	DHM 121 (C)	72.4	52.3	226.9	189.9	63.3	62.0	56.7
	CMH 08-292 (C)	77.8	59.0	255.9	207.1	83.1	59.3	53.3
150% RDF	PM17102M	86.7	65.3	238.7	171.8	53.4	58.7	55.3
	NMH-4053	82.9	74.7	263.0	173.9	54.9	61.7	58.0
	IMHBG-17K-15	74.4	57.3	253.1	177.4	96.1	60.0	57.0
	DKC8181(IR8004)	82.2	59.0	246.7	170.9	55.7	60.0	56.0
	KMH-16-29	78.9		229.6			56.0	
	Bio 9544 (C)	84.4	59.3	225.7	167.1	57.2	63.0	55.7
	DHM 121 (C)	74.1	57.3	240.6	182.9	55.8	60.0	58.0
	CMH 08-292 (C)	77.8	57.7	260.1	186.0	68.9	60.0	57.7
Location mean		79.6	60.2	238.9	187.0	68.7	60.3	56.0
C.D.(5%) AiBj-AiBk		5.7	10.3	22.2	23.8	26.9	0.9	2.9
C.D.(5%) AiBk-AjBk		6.5	10.6	37.2	33.5	30.5	1.5	3.3
F(5%)		NS	NS	NS	NS	NS	S	NS
RDF		79.0	58.8	233.1	198.3	74.2	60.6	55.3
150% RDF		80.2	61.5	244.7	175.7	63.2	59.9	56.8
C.D.(5%) Ai-Aj		4.1	5.4	33.9	28.1	20.1	1.4	2.1
C.V.(%) Error A		4.2	6.7	11.4	11.3	22.1	1.9	2.8
F(5%)		NS	NS	NS	NS	NS	NS	NS
PM17102M		85.9	60.8	234.6	185.3	60.4	59.0	55.2
NMH-4053		81.8	70.2	253.6	183.8	59.8	61.8	57.8
IMHBG-17K-15		74.6	58.7	250.1	190.0	89.7	61.0	56.7
DKC8181(IR8004)		80.4	59.3	238.4	186.9	66.7	60.0	54.8
KMH-16-29		79.2		220.3			57.2	
Bio 9544 (C)		83.7	59.0	222.6	180.2	68.8	62.5	55.0
DHM 121 (C)		73.2	54.8	233.8	186.4	59.5	61.0	57.3
CMH 08-292 (C)		77.8	58.3	258.0	196.5	76.0	59.7	55.5
C.D.(5%)Bi-Bj		4.1	7.3	15.7	16.9	19.0	0.7	2.1
C.V.(%)ErrorB		4.3	10.1	5.5	7.6	23.2	0.9	3.1
F(5%)		S	S	S	NS	S	S	S

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Nutrient levels	Genotypes	Days 50% silking		Days to maturity	100-seed weight (g)		Moisture (%)	Shelling (%)
		Bajaura	Gossaingaon	Gossaingaon	Bajaura	Gossaingaon	Gossaingaon	Gossaingaon
RDF	PM17102M	61.3	57.3	122.7	30.3	29.3	22.2	77.7
	NMH-4053	64.0	65.7	129.7	32.7	28.7	22.8	79.2
	IMHBG-17K-15	64.0	59.3	122.7	34.0	29.7	22.7	78.3
	DKC8181(IR8004)	62.0	57.3	121.0	30.0	30.0	22.3	78.5
	KMH-16-29	60.3			30.0			
	Bio 9544 (C)	64.0	57.0	121.0	30.7	28.7	22.8	77.8
	DHM 121 (C)	64.0	61.7	125.7	34.0	30.0	21.6	76.0
	CMH 08-292 (C)	61.3	56.3	120.3	37.3	30.0	22.6	81.1
150% RDF	PM17102M	60.7	58.0	123.3	32.0	27.0	20.1	77.7
	NMH-4053	63.7	62.0	127.0	33.3	29.3	20.9	78.3
	IMHBG-17K-15	62.0	59.7	123.7	34.7	29.7	20.7	78.6
	DKC8181(IR8004)	62.0	58.0	122.0	32.0	29.3	20.9	79.1
	KMH-16-29	58.0			32.0			
	Bio 9544 (C)	65.0	58.0	124.0	31.3	29.0	20.7	76.9
	DHM 121 (C)	62.0	61.3	128.7	36.0	30.0	21.4	76.9
	CMH 08-292 (C)	62.0	60.7	127.3	36.0	29.7	20.8	79.3
Location mean		62.3	59.5	124.2	32.9	29.3	21.6	78.2
C.D.(5%) AiBj-AiBk		0.9	3.7	3.8	2.9	1.5	1.8	4.6
C.D.(5%) AiBk-AjBk		1.5	4.0	4.8	3.5	1.4	2.5	7.0
F(5%)		S	NS	S	NS	NS	NS	NS
RDF		62.6	59.2	123.3	32.4	29.5	22.4	78.4
150% RDF		61.9	59.7	125.1	33.4	29.1	20.8	78.1
C.D.(5%) Ai-Aj		1.4	2.3	3.8	2.5	0.5	2.2	6.1
C.V.(%) Error A		1.8	2.9	2.3	6.1	1.4	7.5	5.9
F(5%)		NS	NS	NS	NS	NS	NS	NS
PM17102M		61.0	57.7	123.0	31.2	28.2	21.2	77.7
NMH-4053		63.8	63.8	128.3	33.0	29.0	21.8	78.7
IMHBG-17K-15		63.0	59.5	123.2	34.3	29.7	21.7	78.5
DKC8181(IR8004)		62.0	57.7	121.5	31.0	29.7	21.6	78.8
KMH-16-29		59.2			31.0			
Bio 9544 (C)		64.5	57.5	122.5	31.0	28.8	21.8	77.3
DHM 121 (C)		63.0	61.5	127.2	35.0	30.0	21.5	76.5
CMH 08-292 (C)		61.7	58.5	123.8	36.7	29.8	21.7	80.2
C.D.(5%)Bi-Bj		0.7	2.6	2.7	2.0	1.0	1.3	3.3
C.V.(%)ErrorB		0.9	3.7	1.8	5.3	3.0	4.9	3.5
F(5%)		S	S	S	S	S	NS	NS

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Nutrient levels	Genotypes	Net returns (Rs./ha)		B:C ratio		Barrenness in maize (%)	Cob length (cm)	Grain rows/ cob	Grains/ row
		Bajaura	Gossaingaon	Bajaura	Gossaingaon	Bajaura	Bajaura	Bajaura	Bajaura
RDF	PM17102M	192656	41540	5.23	1.86	3.8	16.0	13.2	38.1
	NMH-4053	191982	55873	5.21	2.15	4.6	14.5	12.8	35.5
	IMHBG-17K-15	178883	49513	4.85	2.02	4.1	16.0	14.0	35.1
	DKC8181(IR8004)	182208	50940	4.94	2.05	8.7	16.2	12.6	38.0
	KMH-16-29	191065		5.18		4.3	15.5	14.8	37.3
	Bio 9544 (C)	178054	40700	4.83	1.84	4.2	15.4	13.0	35.2
	DHM 121 (C)	157553	43500	4.28	1.90	10.6	15.3	14.7	30.5
	CMH 08-292 (C)	169994	43333	4.61	1.89	5.8	15.9	13.1	31.5
150% RDF	PM17102M	197121	51104	4.69	2.00	4.0	15.9	12.6	38.7
	NMH-4053	200712	67770	4.78	2.32	4.7	16.4	12.4	38.7
	IMHBG-17K-15	196963	41737	4.69	1.82	6.9	15.6	14.9	33.5
	DKC8181(IR8004)	190365	50930	4.53	2.00	4.9	16.4	12.5	38.5
	KMH-16-29	196736		4.69		4.4	16.2	14.5	35.0
	Bio 9544 (C)	197103	47177	4.69	1.92	4.7	15.9	13.3	37.3
	DHM 121 (C)	182846	43370	4.35	1.85	8.6	14.2	13.8	31.5
	CMH 08-292 (C)	169943	44557	4.05	1.87	6.0	15.7	13.3	32.9
Location mean		185886.4	48003.3	4.73	1.96	5.6	15.7	13.5	35.5
C.D.(5%) AiBj-AiBk		31150.9	18981.5	0.79	0.38	3.0	1.2	1.0	3.6
C.D.(5%) AiBk-AjBk		33059.7	17751.4	0.84	0.35	2.9	1.2	1.0	3.4
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS
RDF		180299	46486	4.89	1.96	5.8	15.6	13.5	35.2
150% RDF		191473	49521	4.56	1.97	5.5	15.8	13.4	35.8
C.D.(5%) Ai-Aj		18063.8	2932.7	0.46	0.05	0.8	0.7	0.1	0.8
C.V.(%) Error A		7.8	4.6	7.82	1.9	11.0	3.4	0.5	1.7
F(5%)		NS	S	NS	NS	NS	NS	S	NS
PM17102M		194889	46322	4.96	1.93	3.9	16.0	12.9	38.4
NMH-4053		196347	61822	4.99	2.24	4.6	15.5	12.6	37.1
IMHBG-17K-15		187923	45625	4.77	1.92	5.5	15.8	14.4	34.3
DKC8181(IR8004)		186286	50935	4.74	2.02	6.8	16.3	12.5	38.2
KMH-16-29		193901		4.93		4.3	15.8	14.7	36.2
Bio 9544 (C)		187578	43939	4.76	1.88	4.5	15.6	13.2	36.3
DHM 121 (C)		170200	43435	4.31	1.87	9.6	14.7	14.2	31.0
CMH 08-292 (C)		169968	43945	4.33	1.88	5.9	15.8	13.2	32.2
C.D.(5%)Bi-Bj		22027.0	13421.9	0.56	0.27	2.1	0.8	0.7	2.5
C.V.(%)ErrorB		10.0	23.5	9.96	11.4	31.8	4.5	4.6	6.1
F(5%)		NS	NS	NS	NS	S	S	S	S

Table6: Performance of pre release medium maturity genotypes in *Kharif* under varying planting densities and nutrient levels in North West Plain Zone (NWPZ).

Density	Nutrient levels	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)		Cob yield (kg/ha)	Plants ('000/ha)	
			Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Karnal	Ludhiana
Normal	RDF	JH 16045	6236	5194	23751	7174	7424	65.6	77.1
		Bio 9544 (C)	7124	5792	15475	6333	8352	65.0	78.5
		CMH 08 -292 (C)	6915	5201	23902	7528	7979	65.8	76.4
	150% RDF	JH 16045	6706	5271	25031	7861	7984	65.8	79.2
		Bio 9544 (C)	7610	5847	19120	6750	8923	65.6	79.2
		CMH 08 -292 (C)	7474	5479	27031	7951	8624	65.3	77.8
High	RDF	JH 16045	7700	6007	29611	8910	9167	81.6	105.6
		Bio 9544 (C)	8706	6889	17400	8056	10207	82.3	102.8
		CMH 08 -292 (C)	8291	6028	28800	9715	9567	81.9	102.1
	150% RDF	JH 16045	7974	6278	33605	9840	9493	82.3	106.3
		Bio 9544 (C)	9269	7174	20778	9292	10867	81.9	103.5
		CMH 08 -292 (C)	8811	6465	32011	10764	10167	82.3	102.8
Mean of location			7734.7	5968.8	24709.6	8347.8	9062.6	73.8	90.9
Normal			7011	5464	22385	7266	8214	65.5	78.0
High			8458	6473	27034	9429	9911	82.1	103.8
CD at 5%			380.7	892.0	1828.4	1311.6	444.9	0.9	5.1
CV (%)			3.4	10.4	5.2	11.0	3.4	0.8	3.9
RDF			7495	5852	23157	7953	8782	73.7	90.4
150% RDF			7974	6086	26263	8743	9343	73.9	91.4
CD at 5%			223.1	NS	1362.8	369.9	260.1	NS	NS
CV (%)			3.1	4.9	6.0	4.8	3.1	1.0	1.3
JH 16045			7154	5688	28000	8446	8517	73.8	92.0
Bio 9544 (C)			8177	6425	18193	7608	9587	73.7	91.0
CMH 08 -292 (C)			7873	5793	27936	8990	9084	73.8	89.8
CD at 5%			410.0	374.7	1461.0	531.1	482.6	NS	NS
CV (%)			6.1	7.3	6.8	7.4	6.2	1.0	2.3

Treatment	Pantnagar				
	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants (000/ha)	Cobs (000/ha)	Plant height (cm)
Planting density					
Normal (66,666 plant/ha)	6,572	9,974	61.9	61.9	169.1
High (83,333 plants/ha)	6,586	10,146	79.6	79.6	170.0
CD (5%)	NS	NS	3.1	3.1	NS
CV (%)	6.8	12.5	3.0	3.0	1.6
Nutrient level					
RDF (120:60:40)	6,364	9,883	70.0	70.0	168.3
150% RDF	6,793	10,237	71.5	71.5	170.8
CD (5%)	NS	NS	NS	NS	NS
CV (%)	9.5	4.7	5.8	5.8	2.0
Genotypes					
JH 16045	7,141	10,366	70.5	70.5	168.7
Bio 9544 (C)	6,238	9,897	70.7	70.7	172.3
CMH 08 -292 (C)	6,357	9,917	71.1	71.1	167.6
CD (5%)	735	NS	NS	NS	3.7
CV (%)	12.9	9.7	4.9	4.9	2.6

Density	Nutrient levels	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling		Days to Maturity
			Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Ludhiana	Karnal
Normal	RDF	JH 16045	65.9	74.3	190.7	232.0	59.0	52.7	93.0
		Bio 9544 (C)	65.5	75.0	174.7	202.7	51.7	54.3	90.0
		CMH 08 -292 (C)	65.4	73.6	206.7	238.3	49.3	52.7	87.7
	150% RDF	JH 16045	66.6	77.1	204.7	238.3	58.3	52.0	90.3
		Bio 9544 (C)	66.2	76.4	194.0	208.7	49.3	53.0	89.7
		CMH 08 -292 (C)	65.8	75.0	230.0	242.0	48.3	52.0	88.0
High	RDF	JH 16045	81.9	102.1	213.7	235.7	56.7	53.3	91.0
		Bio 9544 (C)	82.8	98.6	212.0	207.0	48.0	55.0	90.7
		CMH 08 -292 (C)	82.3	97.2	244.7	239.7	47.7	53.3	88.3
	150% RDF	JH 16045	82.8	103.5	225.0	240.3	56.3	53.3	90.3
		Bio 9544 (C)	82.3	100.0	220.0	214.7	48.0	53.7	90.0
		CMH 08 -292 (C)	82.4	100.0	250.3	248.7	47.3	53.7	87.7
Mean of location			74.2	87.7	213.9	229.0	51.7	53.3	89.7
Normal			65.9	75.2	200.1	227.0	52.7	52.8	89.8
High			82.4	100.2	227.6	231.0	50.7	53.7	89.7
CD at 5%			0.5	6.9	9.5	NS	0.4	NS	NS
CV (%)			0.5	5.4	3.1	11.4	0.6	1.9	2.2
RDF`			74.0	86.8	207.1	225.9	52.1	53.6	90.1
150% RDF			74.3	88.7	220.7	232.1	51.3	52.9	89.3
CD at 5%			0.2	NS	5.3	NS	NS	NS	0.8
CV (%)			0.3	3.7	2.7	6.3	2.3	2.3	0.9
JH 16045			74.3	89.2	208.5	236.6	57.6	52.8	91.2
Bio 9544 (C)			74.2	87.5	200.2	208.3	49.3	54.0	90.1
CMH 08 -292 (C)			74.0	86.5	232.9	242.2	48.2	52.9	87.9
CD at 5%			NS	NS	7.0	15.9	0.7	1.0	0.8
CV (%)			0.8	3.3	3.8	8.0	1.5	2.1	1.1

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Density	Nutrient levels	Genotypes	Days to 50% silking		Net returns (Rs./ha)		B:C ratio		Barren plant ('000/ha)	Shelling (%)
			Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Ludhiana	Ludhiana	Karnal
Normal	RDF	JH 16045	61.0	55.3	76869	55579	2.90	1.34	2.78	84.0
		Bio 9544 (C)	53.7	57.0	92713	64723	3.29	1.57	3.47	85.3
		CMH 08 -292 (C)	51.3	55.3	88984	56122	3.20	1.36	2.78	86.7
	150% RDF	JH 16045	60.3	54.0	81833	54068	2.86	1.20	2.08	84.0
		Bio 9544 (C)	51.3	55.0	97968	62533	3.23	1.39	2.78	85.3
		CMH 08 -292 (C)	50.3	54.0	95534	57717	3.17	1.28	2.78	86.7
High	RDF	JH 16045	58.7	57.0	103000	69647	3.54	1.61	3.47	84.0
		Bio 9544 (C)	50.0	58.7	120951	83615	3.97	1.94	4.17	85.3
		CMH 08 -292 (C)	49.7	57.0	113551	70967	3.79	1.64	3.47	86.7
	150% RDF	JH 16045	58.3	56.3	104464	71732	3.37	1.53	2.78	84.0
		Bio 9544 (C)	50.0	56.7	127566	86303	3.88	1.84	3.47	85.3
		CMH 08 -292 (C)	49.3	56.7	119400	76028	3.70	1.62	2.78	86.7
Mean of location			53.7	56.1	101902.8	67419.5	3.41	1.53	3.07	85.3
Normal			54.7	55.1	88984	58457	3.11	1.36	2.78	85.3
High			52.7	57.1	114822	76382	3.71	1.70	3.36	85.3
CD at 5%			0.4	1.5	6795.0	16738.0	0.2	NS	NS	0.0
CV (%)			0.5	1.8	4.6	17.3	3.2	17.1	22.6	0.0
RDF			54.1	56.7	99345	66775	3.45	1.58	3.36	85.3
150% RDF			53.3	55.4	104461	68064	3.37	1.48	2.78	85.3
CD at 5%			NS	1.1	3982.9	NS	NS	NS	NS	0.0
CV (%)			2.2	2.2	4.2	8.1	2.9	8.6	22.6	0.0
JH 16045			59.6	55.7	91542	62756	3.17	1.42	2.78	84.0
Bio 9544 (C)			51.3	56.8	109800	74293	3.59	1.68	3.47	85.3
CMH 08 -292 (C)			50.2	55.8	104367	65209	3.47	1.48	2.95	86.7
CD at 5%			0.7	0.9	7318.3	6140.5	0.2	0.1	NS	0.0
CV (%)			1.4	1.7	8.3	10.5	5.6	10.5	40.8	0.0

Treatment	Pantnagar				
	Days to 50% Tasseling	Days to 50% Silking	100-grain weight (g)	Net return (Rs./ha)	B:C ratio
Planting density					
Normal (66,666 plant/ha)	54.8	58.0	23.8	78913	2.15
High (83,333 plants/ha)	54.7	57.9	23.4	77910	2.05
CD (5%)	NS	NS	NS	NS	NS
CV (%)	1.1	1.5	6.0	10.0	9.8
Nutrient level					
RDF (120:60:40)	54.8	57.9	23.4	76179	2.13
150% RDF	54.7	58.0	23.7	80644	2.07
CD (5%)	NS	NS	NS	NS	NS
CV (%)	0.6	0.9	3.8	14.1	13.9
Genotypes					
JH 16045	54.3	57.5	24.4	88302	2.37
Bio 9544 (C)	56.0	59.3	22.7	72413	1.94
CMH 08 -292 (C)	53.9	57.0	23.6	74519	2.00
CD (5%)	0.2	0.5	1.0	12941	0.35
CV (%)	0.5	1.0	4.7	19.1	19.2

*Gross return was calculated by considering minimum support price of maize Rs. 1760/quintal (2019-20).

Table 7: Performance of pre release medium maturity genotypes in *Kharif* under varying planting densities and nutrient levels in Peninsular Zone (PZ).

Density	Nutrient levels	Genotypes	Grain yield (kg/ha)			Stover yield (kg/ha)		
			Dharwad	Hyderabad	Peddapuram	Dharwad	Hyderabad	Peddapuram
Normal	RDF	INDAM 1122	5522	6680	7820	6300	7383	10022
		Bio 9544 (C)	6131	5437	7217	6882	6423	9317
	150% RDF	INDAM 1122	6093	5643	8258	6845	6028	10698
		Bio 9544 (C)	6387	6180	7676	7407	6808	9776
High	RDF	INDAM 1122	5697	7642	8220	6534	8110	10420
		Bio 9544 (C)	6088	6584	7795	6868	7458	9886
	150% RDF	INDAM 1122	6212	7912	8691	7025	7475	10891
		Bio 9544 (C)	6453	7058	7978	7073	7695	10278
Mean of location			6072.9	6642.0	7957.0	6866.8	7172.2	10160.7
Normal			6033	5985	7743	6859	6660	9953
High			6113	7299	8171	6875	7684	10369
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			4.6	17.8	8.8	8.2	21.9	7.4
RDF			5860	6586	7763	6646	7343	9911
150% RDF			6286	6698	8151	7088	7001	10410
CD at 5%			NS	NS	340.3	NS	NS	486.4
CV (%)			6.9	6.4	4.9	7.8	16.1	5.5
INDAM 1122			5881	6969	8248	6676	7249	10508
Bio 9544 (C)			6265	6315	7666	7058	7096	9814
CD at 5%			NS	536.7	468.2	NS	NS	NS
CV (%)			7.1	10.5	7.6	7.9	14.6	11.7

Density	Nutrient levels	Genotypes	Plants ('000/ha)			Cobs ('000/ha)		
			Dharwad	Hyderabad	Peddapuram	Dharwad	Hyderabad	Peddapuram
Normal	RDF	INDAM 1122	79.4	49.5	76.4	79.1	48.8	74.3
		Bio 9544 (C)	80.1	47.3	74.6	80.4	46.3	72.4
	150% RDF	INDAM 1122	79.4	46.0	76.7	79.7	45.0	74.8
		Bio 9544 (C)	78.2	46.0	75.2	78.2	46.0	73.4
High	RDF	INDAM 1122	96.1	54.0	94.2	95.4	54.5	92.1
		Bio 9544 (C)	95.1	56.8	90.3	94.4	55.5	88.1
	150% RDF	INDAM 1122	96.9	58.3	95.1	96.1	56.3	93.3
		Bio 9544 (C)	95.0	59.8	92.3	94.1	58.5	90.3
Mean of location			87.5	52.2	84.4	87.2	51.3	82.3
Normal			79.3	47.2	75.7	79.4	46.5	73.7
High			95.8	57.2	93.0	95.0	56.2	91.0
CD at 5%			2.5	4.4	1.3	3.4	5.5	1.6
CV (%)			1.6	7.5	1.4	2.2	9.4	1.7
RDF			87.7	51.9	83.9	87.4	51.3	81.7
150% RDF			87.4	52.5	84.8	87.0	51.4	82.9
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			3.0	5.4	2.2	1.7	5.9	2.2
INDAM 1122			88.0	51.9	85.6	87.6	51.1	83.6
Bio 9544 (C)			87.1	52.4	83.1	86.8	51.6	81.0
CD at 5%			NS	NS	1.1	NS	NS	1.0
CV (%)			1.8	3.8	1.7	1.4	3.2	1.6

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Density	Nutrient levels	Genotypes	Plant height (cm)			100-seed weight (g)		
			Dharwad	Hyderabad	Peddapuram	Dharwad	Hyderabad	Peddapuram
Normal	RDF	INDAM 1122	188.7	203.8	167.0	32.5	37.8	33.3
		Bio 9544 (C)	183.0	215.5	144.3	31.1	35.8	30.2
	150% RDF	INDAM 1122	185.3	208.3	170.3	33.2	36.8	34.1
		Bio 9544 (C)	180.7	204.5	145.3	29.5	34.3	31.8
High	RDF	INDAM 1122	161.7	214.1	165.8	32.5	37.8	32.2
		Bio 9544 (C)	192.0	213.4	143.0	31.9	35.9	30.0
	150% RDF	INDAM 1122	170.3	219.2	167.8	33.5	35.8	33.2
		Bio 9544 (C)	182.0	214.8	148.3	32.4	33.5	29.4
Mean of location			180.5	211.7	156.4	32.1	35.9	31.8
Normal			184.4	208.0	156.7	31.6	36.1	32.4
High			176.5	215.3	156.2	32.6	35.7	31.2
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			2.9	7.8	5.6	6.0	4.9	6.9
RDF			181.3	211.7	155.0	32.0	36.8	31.4
150% RDF			179.6	211.7	157.9	32.2	35.1	32.1
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			4.4	7.6	3.7	4.0	9.7	4.5
INDAM 1122			176.5	211.3	167.7	32.9	37.0	33.2
Bio 9544 (C)			184.4	212.0	145.2	31.2	34.8	30.4
CD at 5%			NS	NS	6.2	1.6	0.7	1.4
CV (%)			6.2	11.0	5.2	5.4	2.5	5.6

Density	Nutrient levels	Genotypes	Days to 50% tasseling			Days to 50% silking		
			Dharwad	Hyderabad	Peddapuram	Dharwad	Hyderabad	Peddapuram
Normal	RDF	INDAM 1122	43.7	55.8	47.0	50.7	57.8	50.0
		Bio 9544 (C)	44.3	57.8	51.0	51.0	59.5	53.8
	150% RDF	INDAM 1122	42.3	57.0	47.3	49.0	59.3	50.8
		Bio 9544 (C)	44.3	58.8	50.8	50.7	60.5	53.8
High	RDF	INDAM 1122	42.7	58.3	47.3	49.0	60.3	50.5
		Bio 9544 (C)	43.3	59.8	50.5	50.0	61.3	53.8
	150% RDF	INDAM 1122	43.0	59.3	48.0	49.3	60.5	51.3
		Bio 9544 (C)	45.0	60.3	51.3	50.3	61.8	54.5
Mean of location			43.6	58.3	49.1	50.0	60.1	52.3
Normal			43.7	57.3	49.0	50.3	59.3	52.1
High			43.5	59.4	49.3	49.7	60.9	52.5
CD at 5%			NS	1.0	NS	NS	1.0	NS
CV (%)			2.3	1.5	0.6	1.8	1.5	1.2
RDF			43.5	57.9	48.9	50.2	59.7	52.0
150% RDF			43.7	58.8	49.3	49.8	60.5	52.6
CD at 5%			NS	0.3	NS	NS	0.6	0.2
CV (%)			5.3	0.7	1.2	4.0	1.1	0.5
INDAM 1122			42.9	57.6	47.4	49.5	59.4	50.6
Bio 9544 (C)			44.3	59.1	50.9	50.5	60.8	53.9
CD at 5%			1.1	0.3	0.4	NS	0.3	0.6
CV (%)			2.8	0.7	1.1	2.6	0.7	1.4

Cont…

Density	Nutrient levels	Genotypes	Net returns (Rs./ha)			B:C ratio		
			Dharwad	Hyderabad	Peddapuram	Dharwad	Hyderabad	Peddapuram
Normal	RDF	INDAM 1122	60410	45074	78803	1.61	1.59	2.34
		Bio 9544 (C)	71981	22987	68176	1.79	1.30	2.16
	150% RDF	INDAM 1122	68362	22775	83375	1.67	1.29	2.35
		Bio 9544 (C)	73954	32680	73124	1.75	1.41	2.18
High	RDF	INDAM 1122	63752	61030	83891	1.66	1.79	2.38
		Bio 9544 (C)	71181	42383	76413	1.78	1.55	2.26
	150% RDF	INDAM 1122	70636	61658	89050	1.70	1.77	2.39
		Bio 9544 (C)	75205	47372	76494	1.77	1.59	2.20
Mean of location			69434.9	41994.7	78665.8	1.72	1.54	2.28
Normal			68677	30879	75870	1.71	1.40	2.26
High			70193	53111	81462	1.73	1.68	2.31
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			7.7	51.4	15.7	4.9	17.9	8.84
RDF			66831	42868	76821	1.71	1.56	2.28
150% RDF			72039	41121	80511	1.72	1.51	2.28
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			11.5	17.0	8.8	6.9	5.9	4.92
INDAM 1122			65790	47634	83780	1.66	1.61	2.36
Bio 9544 (C)			73080	36355	73552	1.77	1.46	2.20
CD at 5%			NS	9739.4	8239.8	NS	0.1	0.14
CV (%)			11.9	30.1	13.6	7.1	10.5	7.73

Density	Nutrient levels	Genotypes	Cob length (cm)		Cob Girth (cm)		Grain rows/cob	
			Hyderabad	Peddapuram	Hyderabad	Peddapuram	Hyderabad	Peddapuram
Normal	RDF	INDAM 1122	20.3	17.0	15.7	16.1	15.4	14.5
		Bio 9544 (C)	18.8	15.4	14.1	14.0	14.7	12.7
	150% RDF	INDAM 1122	18.9	17.4	15.5	16.8	14.8	14.9
		Bio 9544 (C)	19.2	16.0	14.4	15.2	15.0	12.9
High	RDF	INDAM 1122	19.8	16.7	15.9	16.1	15.3	14.2
		Bio 9544 (C)	18.0	15.3	14.0	14.1	14.4	12.7
	150% RDF	INDAM 1122	20.2	16.8	15.8	16.0	16.5	14.6
		Bio 9544 (C)	18.6	15.9	14.2	14.7	14.7	12.8
Mean of location			19.2	16.3	14.9	15.4	15.1	13.7
Normal			19.3	16.4	14.9	15.5	15.0	13.8
High			19.1	16.2	15.0	15.2	15.2	13.6
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			8.6	1.9	5.2	2.3	4.9	4.3
RDF			19.2	16.1	14.9	15.1	14.9	13.5
150% RDF			19.2	16.5	14.9	15.7	15.2	13.8
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			6.7	3.2	2.0	4.6	4.6	2.7
INDAM 1122			19.8	17.0	15.7	16.2	15.5	14.6
Bio 9544 (C)			18.6	15.6	14.2	14.5	14.7	12.8
CD at 5%			0.7	0.4	0.7	0.5	0.6	0.4
CV (%)			4.7	3.0	5.6	4.3	5.0	3.9

Cont...

Density	Nutrient levels	Genotypes	Grains/row		Shoot fly/plot at 30DAS	FAW (%) at 30DAS	TLB score
			Hyderabad	Peddapuram	Dharwad	Dharwad	Dharwad
Normal	RDF	INDAM 1122	41.9	38.4	1.00	1.00	2.67
		Bio 9544 (C)	40.2	34.3	1.33	2.00	2.67
	150% RDF	INDAM 1122	39.5	38.5	1.00	1.00	4.33
		Bio 9544 (C)	38.2	35.4	1.00	0.67	2.67
High	RDF	INDAM 1122	40.4	37.1	1.00	1.00	3.33
		Bio 9544 (C)	37.0	34.1	0.33	1.33	2.67
	150% RDF	INDAM 1122	40.7	36.4	0.00	1.67	3.67
		Bio 9544 (C)	37.5	34.7	1.00	1.67	3.00
Mean of location			39.4	36.1	0.83	1.29	3.13
Normal			39.9	36.6	1.08	1.17	3.08
High			38.9	35.6	0.58	1.42	3.17
CD at 5%			NS	NS	NS	NS	NS
CV (%)			8.6	5.2	112.3	98.7	34.6
RDF			39.9	36.0	0.92	1.33	2.83
150% RDF			39.0	36.2	0.75	1.25	3.42
CD at 5%			NS	NS	NS	NS	NS
CV (%)			5.0	3.8	91.7	50.0	37.0
INDAM 1122			40.6	37.6	0.75	1.17	3.50
Bio 9544 (C)			38.2	34.6	0.92	1.42	2.75
CD at 5%			1.1	0.7	NS	NS	0.7
CV (%)			3.5	2.6	54.8	65.2	22.6

Table8: Performance of pre release medium maturity genotypes in *Kharif* under varying planting densities and nutrient levels in Central Western Zone (CWZ).

Density	Nutrient levels	Genotypes	Grain yield (kg/ha)			Stover yield (kg/ha)		
			Ambikapur	Godhara	Udaipur	Ambikapur	Godhara	Udaipur
Normal	RDF	BLH118	6222	7833	4367	16219	6767	6577
		RCRMH2	5852	7100	4237	15240	9000	6402
		Bio 9544 (C)	4593	6733	4433	12333	6167	6672
		CMH 08-292 (C)	5407	4500	3633	14346	6500	5470
	150% RDF	BLH118	7222	6367	4333	18438	6933	6742
		RCRMH2	6815	6900	4527	17681	8833	7033
		Bio 9544 (C)	5704	5867	4733	15037	6100	7366
		CMH 08-292 (C)	5185	4133	3930	13599	5333	6122
High	RDF	BLH118	6556	6000	4823	17640	5233	7015
		RCRMH2	6556	6867	4733	17911	10367	6827
		Bio 9544 (C)	5259	6433	5230	14643	7900	7600
		CMH 08-292 (C)	5370	6567	4240	14814	7833	6173
	150% RDF	BLH118	7926	7367	5133	20989	7833	7737
		RCRMH2	6519	4467	5020	17212	6933	7590
		Bio 9544 (C)	5148	6300	5560	14011	6233	8480
		CMH 08-292 (C)	6370	5533	4520	17142	6800	6933
Mean of location			6044.0	6185.4	4590.8	16078.4	7172.9	6921.0
Normal			5875	6179	4274	15362	6954	6548
High			6213	6192	4908	16795	7392	7294
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			8.3	3.6	11.8	8.6	31.1	11.7
RDF			5727	6504	4462	15393	7471	6592
150% RDF			6361	5867	4720	16764	6875	7250
CD at 5%			586.2	NS	NS	NS	NS	458.0
CV (%)			12.1	22.2	8.0	15.7	40.3	8.3
BLH118			6981	6892	4664	18321	6692	7018
RCRMH2			6435	6333	4629	17011	8783	6963
Bio 9544 (C)			5176	6333	4989	14006	6600	7529
CMH 08-292 (C)			5583	5183	4081	14975	6617	6175
CD at 5%			506.3	1001.6	199.1	1550.6	1748.3	291.3
CV (%)			9.9	19.2	5.1	11.4	28.9	5.0

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Density	Nutrient levels	Genotypes	Plants ('000/ha)			Cobs ('000/ha)		
			Ambikapur	Godhara	Udaipur	Ambikapur	Godhara	Udaipur
Normal	RDF	BLH118	64.8	40.3	61.3	64.8	42.3	61.9
		RCRMH2	64.4	38.3	61.3	64.4	40.0	62.3
		Bio 9544 (C)	64.4	51.0	61.3	64.4	52.0	65.2
		CMH 08-292 (C)	64.4	31.0	62.4	64.4	31.7	63.6
	150% RDF	BLH118	65.6	40.7	61.8	65.6	43.0	64.4
		RCRMH2	65.2	39.7	61.3	65.2	41.0	61.6
		Bio 9544 (C)	65.6	36.0	61.3	65.6	40.0	65.2
		CMH 08-292 (C)	65.2	24.7	62.0	65.2	24.3	62.6
High	RDF	BLH118	82.2	35.0	78.9	80.7	35.7	79.9
		RCRMH2	81.5	51.0	79.1	78.9	48.0	80.4
		Bio 9544 (C)	81.1	59.3	79.1	79.3	58.3	84.6
		CMH 08-292 (C)	82.2	52.0	79.6	78.9	49.7	81.4
	150% RDF	BLH118	80.4	42.3	78.4	78.9	45.0	80.4
		RCRMH2	81.9	36.0	79.1	80.0	34.0	79.9
		Bio 9544 (C)	81.1	46.3	78.8	80.4	48.0	82.8
		CMH 08-292 (C)	82.2	36.7	79.1	80.0	38.3	81.4
Mean of location			73.3	41.3	70.3	72.3	42.0	72.4
Normal			65.0	37.7	61.6	65.0	39.3	63.4
High			81.6	44.8	79.0	79.6	44.6	81.3
CD at 5%			1.6	NS	3.0	2.2	NS	4.8
CV (%)			1.8	20.6	3.5	2.5	12.8	5.3
RDF			73.1	44.8	70.4	72.0	44.7	72.4
150% RDF			73.4	37.8	70.2	72.6	39.2	72.3
CD at 5%			NS	NS	NS	0.3	NS	NS
CV (%)			0.7	45.8	1.1	0.6	41.2	2.1
BLH118			73.2	39.6	70.1	72.5	41.5	71.7
RCRMH2			73.2	41.3	70.2	72.1	40.8	71.1
Bio 9544 (C)			73.1	48.2	70.1	72.4	49.6	74.5
CMH 08-292 (C)			73.5	36.1	70.8	72.1	36.0	72.3
CD at 5%			NS	NS	NS	NS	NS	1.6
CV (%)			2.3	33.1	1.5	2.0	30.2	2.6

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Density	Nutrient levels	Genotypes	Plant height (cm)			1000-seed weight (g)	
			Ambikapur	Godhara	Udaipur	Godhara	Udaipur
Normal	RDF	BLH118	237.4	174.3	216.8	326.7	320.3
		RCRMH2	229.4	165.7	245.3	313.3	390.0
		Bio 9544 (C)	191.7	160.3	205.3	316.7	250.3
		CMH 08-292 (C)	199.6	195.0	245.3	306.7	400.0
	150% RDF	BLH118	245.1	195.0	214.2	290.0	325.0
		RCRMH2	236.0	198.3	248.3	306.7	395.0
		Bio 9544 (C)	194.3	187.3	208.3	320.0	252.0
		CMH 08-292 (C)	205.0	197.3	258.9	283.3	405.0
High	RDF	BLH118	249.8	185.0	215.1	296.7	320.3
		RCRMH2	245.1	178.7	250.2	306.7	390.0
		Bio 9544 (C)	200.2	169.7	210.2	306.7	250.3
		CMH 08-292 (C)	214.8	188.3	250.5	320.0	400.0
	150% RDF	BLH118	252.7	203.3	218.7	286.7	325.0
		RCRMH2	247.5	201.7	253.7	296.7	395.0
		Bio 9544 (C)	211.5	189.7	213.2	306.7	255.0
		CMH 08-292 (C)	220.2	209.3	263.2	316.7	405.0
Mean of location			223.8	187.4	232.3	306.3	342.4
Normal			217.3	184.2	230.3	307.9	342.2
High			230.2	190.7	234.4	304.6	342.6
CD at 5%			6.3	3.5	NS	NS	NS
CV (%)			2.3	1.5	7.4	5.7	13.0
RDF			221.0	177.1	229.9	311.7	340.2
150% RDF			226.6	197.8	234.8	300.8	344.6
CD at 5%			NS	9.4	NS	NS	NS
CV (%)			5.2	6.3	3.9	10.1	2.5
BLH118			246.3	189.4	216.2	300.0	322.7
RCRMH2			239.5	186.1	249.4	305.8	392.5
Bio 9544 (C)			199.4	176.8	209.3	312.5	251.9
CMH 08-292 (C)			209.9	197.5	254.5	306.7	402.5
CD at 5%			9.2	9.5	6.9	NS	5.4
CV (%)			4.9	6.0	3.5	8.4	1.9

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Density	Nutrient levels	Genotypes	Days to 50% tasseling			Days to 50% Silking		
			Ambikapur	Godhara	Udaipur	Ambikapur	Godhara	Udaipur
Normal	RDF	BLH118	54.7	52.3	45.0	56.7	58.3	48.7
		RCRMH2	54.3	50.3	45.0	56.3	56.3	49.0
		Bio 9544 (C)	54.7	52.0	45.0	56.7	58.0	49.3
		CMH 08-292 (C)	55.0	52.0	45.0	57.0	58.0	49.0
	150% RDF	BLH118	54.3	52.0	45.0	56.3	58.0	49.3
		RCRMH2	52.7	52.7	45.0	54.7	58.7	48.7
		Bio 9544 (C)	54.7	53.0	45.0	56.7	59.0	48.3
		CMH 08-292 (C)	55.0	52.3	45.0	57.0	58.3	49.0
High	RDF	BLH118	55.7	52.0	45.0	57.7	58.0	49.0
		RCRMH2	53.7	52.7	45.0	55.7	58.7	50.0
		Bio 9544 (C)	55.7	53.0	46.0	57.7	59.0	50.0
		CMH 08-292 (C)	53.7	51.7	45.0	55.7	57.7	49.3
	150% RDF	BLH118	53.3	51.3	45.0	55.3	57.3	49.0
		RCRMH2	52.7	51.7	45.0	54.7	57.7	48.3
		Bio 9544 (C)	54.3	51.7	45.0	56.3	57.3	49.0
		CMH 08-292 (C)	52.7	52.0	45.0	54.7	58.0	49.0
Mean of location			54.2	52.0	45.1	56.2	58.0	49.1
Normal			54.4	52.1	45.0	56.4	58.1	48.9
High			54.0	52.0	45.1	56.0	58.0	49.2
CD at 5%			0.4	NS	NS	0.4	NS	NS
CV (%)			0.5	0.3	3.6	0.5	0.4	5.1
RDF			54.7	52.0	45.1	56.7	58.0	49.3
150% RDF			53.7	52.1	45.0	55.7	58.0	48.8
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			2.4	3.3	2.8	2.3	2.9	4.8
BLH118			54.5	51.9	45.0	56.5	57.9	49.0
RCRMH2			53.3	51.8	45.0	55.3	57.8	49.0
Bio 9544 (C)			54.8	52.4	45.3	56.8	58.3	49.2
CMH 08-292 (C)			54.1	52.0	45.0	56.1	58.0	49.1
CD at 5%			0.6	NS	NS	0.6	NS	NS
CV (%)			1.2	1.7	1.9	1.2	1.4	3.2

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Density	Nutrient levels	Genotypes	Net returns (Rs./ha)			B:C ratio		
			Ambikapur	Godhara	Udaipur	Ambikapur	Godhara	Udaipur
Normal	RDF	BLH118	62568	125040	38102	1.99	5.90	1.60
		RCRMH2	56951	128790	34724	1.81	6.00	1.46
		Bio 9544 (C)	38486	125790	37408	1.22	5.80	1.57
		CMH 08-292 (C)	50633	94540	26366	1.61	4.70	1.11
	150% RDF	BLH118	75796	113560	34334	2.31	5.20	1.33
		RCRMH2	70098	144810	37002	2.14	6.30	1.44
		Bio 9544 (C)	53687	122060	39882	1.64	5.50	1.55
		CMH 08-292 (C)	45723	66310	28749	1.40	3.40	1.12
High	RDF	BLH118	68432	114006	42249	2.18	5.30	1.76
		RCRMH2	68838	135756	40944	2.19	6.10	1.70
		Bio 9544 (C)	49418	127506	47832	1.57	5.80	1.99
		CMH 08-292 (C)	50919	129506	34240	1.62	5.90	1.42
	150% RDF	BLH118	87503	131776	44877	2.67	5.80	1.73
		RCRMH2	66076	101526	43341	2.02	4.70	1.67
		Bio 9544 (C)	45926	122026	50889	1.40	5.40	1.96
		CMH 08-292 (C)	64312	103276	36553	1.96	4.70	1.41
Mean of location			59710.3	117892.4	38593.3	1.86	5.41	1.55
Normal			56742	115113	34571	1.77	5.35	1.40
High			62678	120672	42616	1.95	5.46	1.70
CD at 5%			NS		NS	NS		NS
CV (%)			12.9		18.4	12.4		18.7
RDF			55781	122617	37733	1.77	5.69	1.58
150% RDF			63640	113168	39453	1.94	5.13	1.52
CD at 5%			NS		NS	NS		NS
CV (%)			20.0		12.9	19.9		12.5
BLH118			73575	121096	39891	2.29	5.55	1.60
RCRMH2			65490	127721	39003	2.04	5.78	1.57
Bio 9544 (C)			46879	124346	44003	1.46	5.63	1.77
CMH 08-292 (C)			52897	98408	31477	1.65	4.68	1.26
CD at 5%			7843.0		2613.2	0.3		0.1
CV (%)			15.6		8.0	15.7		8.0

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Density	Nutrient levels	Genotypes	Insect (FAW) damage %	FAW attack at 30 DAS on % plant population	FAW attack at 45 DAS on % plant population	FAW attack at silking stage on % plant population
			Godhara	Udaipur	Udaipur	Udaipur
Normal	RDF	BLH118	0.67	33.3	49.9	61.9
		RCRMH2	1.33	31.9	50.6	62.6
		Bio 9544 (C)	1.00	31.2	51.6	62.3
		CMH 08-292 (C)	0.67	33.2	52.5	62.6
	150% RDF	BLH118	1.00	34.0	52.4	62.6
		RCRMH2	1.67	33.4	52.3	63.3
		Bio 9544 (C)	1.33	33.2	53.0	62.9
		CMH 08-292 (C)	1.67	35.2	53.0	63.7
High	RDF	BLH118	0.33	31.4	52.5	63.9
		RCRMH2	1.00	33.6	52.1	63.8
		Bio 9544 (C)	1.67	34.4	52.9	63.4
		CMH 08-292 (C)	0.00	32.8	52.9	63.4
	150% RDF	BLH118	0.00	34.2	54.5	64.3
		RCRMH2	0.00	34.9	52.2	63.8
		Bio 9544 (C)	1.00	37.2	52.6	63.8
		CMH 08-292 (C)	0.67	33.7	53.2	63.0
Mean of location			0.88	33.6	52.4	63.2
Normal			1.17	33.2	51.9	62.7
High			0.58	34.0	52.9	63.7
CD at 5%			0.4	NS	NS	NS
CV (%)			33.0	3.0	3.4	1.7
RDF			0.83	32.7	51.9	63.0
150% RDF			0.92	34.5	52.9	63.4
CD at 5%			NS	NS	NS	NS
CV (%)			287.6	6.8	3.1	1.8
BLH118			0.50	33.2	52.3	63.2
RCRMH2			1.00	33.4	51.8	63.4
Bio 9544 (C)			1.25	34.0	52.5	63.1
CMH 08-292 (C)			0.75	33.7	52.9	63.2
CD at 5%			NS	NS	NS	NS
CV (%)			123.4	6.4	3.9	2.1

Table9: Performance of pre release early maturity genotypes in *Kharif* under varying planting densities and nutrient levels in Central Western Zone (CWZ).

Density	Nutrient levels	Genotypes	Grain yield (kg/ha)			Stover yield (kg/ha)		
			Ambikapur	Godhara	Udaipur	Ambikapur	Godhara	Udaipur
Normal	RDF	JH 31947	4593	6400	3843	10758	7933	5945
		DKC 7074 (C)	4074	5800	2833	9509	8033	4390
	150% RDF	JH 31947	5556	7967	3933	14407	9900	6095
		DKC 7074 (C)	5407	5667	2983	13302	7100	4624
High	RDF	JH 31947	5556	7367	4823	14215	9300	7228
		DKC 7074 (C)	5407	4600	3823	13372	5933	5722
	150% RDF	JH 31947	6556	6433	4930	16756	8033	7412
		DKC 7074 (C)	6111	5667	3920	14816	7333	5847
Mean of location			5407.4	6237.5	3886.3	13391.9	7945.8	5907.7
Normal			4907	6458	3398	11994	8242	5263
High			5907	6017	4374	14790	7650	6552
CD at 5%			700.3	NS	673.7	716.1	528.2	1069.8
CV (%)			7.4	8.7	9.9	3.0	3.8	10.3
RDF			4907	6042	3831	11963	7800	5821
150% RDF			5907	6433	3942	14820	8092	5994
CD at 5%			983.3	NS	NS	2413.8	NS	NS
CV (%)			16.0	16.0	3.8	15.9	21.0	3.8
JH 31947			5565	7042	4383	14034	8792	6670
DKC 7074 (C)			5250	5433	3390	12750	7100	5146
CD at 5%			NS	613.4	132.5	1002.6	613.1	194.1
CV (%)			8.0	10.4	3.6	8.0	8.2	3.5

Density	Nutrient levels	Genotypes	Plants ('000/ha)			Cobs ('000/ha)		
			Ambikapur	Godhara	Udaipur	Ambikapur	Godhara	Udaipur
Normal	RDF	JH 31947	81.9	56.7	61.3	81.9	58.0	61.3
		DKC 7074 (C)	81.1	72.7	61.6	81.1	73.7	62.4
	150% RDF	JH 31947	82.2	58.7	61.3	82.2	58.3	62.4
		DKC 7074 (C)	80.0	59.7	60.9	80.0	59.0	62.2
High	RDF	JH 31947	106.7	53.7	80.2	105.6	52.0	71.3
		DKC 7074 (C)	107.4	74.0	80.2	106.7	67.0	70.1
	150% RDF	JH 31947	107.8	43.7	77.6	107.8	57.3	70.3
		DKC 7074 (C)	108.9	55.0	80.2	108.1	57.0	71.3
Mean of location			94.5	59.3	70.4	94.2	60.3	66.4
Normal			81.3	61.9	61.3	81.3	62.3	62.1
High			107.7	56.6	79.6	107.0	58.3	70.7
CD at 5%			1.4	NS	11.1	0.4	NS	NS
CV (%)			0.8	11.8	8.9	0.2	7.5	9.7
RDF			94.3	64.3	70.8	93.8	62.7	66.3
150% RDF			94.7	54.3	70.0	94.5	57.9	66.5
CD at 5%			NS	3.1	NS	NS	NS	NS
CV (%)			1.5	4.7	2.0	1.6	15.3	3.4
JH 31947			94.6	53.2	70.1	94.4	56.4	66.3
DKC 7074 (C)			94.4	65.3	70.7	94.0	64.2	66.5
CD at 5%			NS	9.8	NS	NS	NS	NS
CV (%)			2.1	17.6	2.1	1.9	19.4	3.7

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Density	Nutrient levels	Genotypes	Plant height (cm)			1000-seed weight (g)	
			Ambikapur	Godhara	Udaipur	Godhara	Udaipur
Normal	RDF	JH 31947	199.6	159.3	230.6	32.3	270.0
		DKC 7074 (C)	191.7	153.3	200.3	28.3	230.3
	150% RDF	JH 31947	222.2	180.0	235.5	33.0	272.0
		DKC 7074 (C)	220.1	175.0	205.3	29.0	228.3
High	RDF	JH 31947	213.7	153.3	233.8	33.0	270.0
		DKC 7074 (C)	206.4	148.3	203.5	28.0	230.0
	150% RDF	JH 31947	232.4	184.0	238.3	33.7	271.3
		DKC 7074 (C)	224.4	179.0	208.3	30.0	232.3
Mean of location			213.8	166.5	219.4	30.9	250.5
Normal			208.4	166.9	217.9	30.7	250.2
High			219.2	166.2	221.0	31.2	250.9
CD at 5%			NS	NS	NS	NS	NS
CV (%)			8.7	2.1	8.3	8.0	8.9
RDF			202.8	153.6	217.1	30.4	250.1
150% RDF			224.8	179.5	221.8	31.4	251.0
CD at 5%			8.4	6.2	NS	NS	NS
CV (%)			3.5	3.3	2.9	15.2	4.2
JH 31947			217.0	169.2	234.6	33.0	270.8
DKC 7074 (C)			210.7	163.9	204.3	28.8	230.3
CD at 5%			NS	5.1	5.3	3.3	8.0
CV (%)			3.6	3.2	2.5	11.3	3.4

Density	Nutrient levels	Genotypes	Days to 50% tasseling			Days to 50% Silking		
			Ambikapur	Godhara	Udaipur	Ambikapur	Godhara	Udaipur
Normal	RDF	JH 31947	47.3	48.3	43.7	49.3	54.3	46.7
		DKC 7074 (C)	47.3	48.3	43.3	49.3	54.3	46.3
	150% RDF	JH 31947	48.3	47.3	42.0	50.3	53.3	45.3
		DKC 7074 (C)	48.7	48.7	42.0	50.7	54.7	45.0
High	RDF	JH 31947	47.3	49.3	44.0	49.3	55.3	47.0
		DKC 7074 (C)	47.3	48.0	43.0	49.3	54.0	46.0
	150% RDF	JH 31947	48.0	49.0	42.0	50.0	55.0	45.3
		DKC 7074 (C)	47.7	49.3	42.0	49.7	55.3	45.0
Mean of location			47.8	48.5	42.8	49.8	54.5	45.8
Normal			47.9	48.2	42.8	49.9	54.2	45.8
High			47.6	48.9	42.8	49.6	54.9	45.8
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			2.8	2.2	9.8	2.7	1.9	8.6
RDF			47.3	48.5	43.5	49.3	54.5	46.5
150% RDF			48.2	48.6	42.0	50.2	54.6	45.2
CD at 5%			0.6	NS	1.4	0.6	NS	NS
CV (%)			1.1	2.3	3.0	1.1	2.1	3.0
JH 31947			47.8	48.5	42.9	49.8	54.5	46.1
DKC 7074 (C)			47.8	48.6	42.6	49.8	54.6	45.6
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			1.4	1.6	2.9	1.4	1.4	2.6

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Density	Nutrient levels	Genotypes	Net returns (Rs./ha)			B:C ratio		
			Ambikapur	Godhara	Udaipur	Ambikapur	Godhara	Udaipur
Normal	RDF	JH 31947	40265	122040	34211	1.39	5.74	1.44
		DKC 7074 (C)	32511	110290	18981	1.12	5.28	0.80
	150% RDF	JH 31947	52286	155560	33632	1.66	6.72	1.31
		DKC 7074 (C)	49927	104560	19291	1.59	4.84	0.75
High	RDF	JH 31947	54918	145006	48289	1.90	6.52	2.01
		DKC 7074 (C)	53062	80506	33275	1.83	4.06	1.38
	150% RDF	JH 31947	67099	120276	47976	2.13	5.34	1.84
		DKC 7074 (C)	60223	101776	32726	1.91	4.67	1.26
Mean of location			51286.4	117501.8	33547.8	1.69	5.40	1.35
Normal			43747	123113	26529	1.44	5.65	1.07
High			58825	111891	40567	1.94	5.15	1.62
CD at 5%			10688.9		10224.1	0.4		0.4
CV (%)			11.9		17.4	12.9		17.2
RDF			45189	114461	33689	1.56	5.40	1.41
150% RDF			57384	120543	33407	1.82	5.39	1.29
CD at 5%			NS		NS	NS		0.1
CV (%)			25.8		6.6	25.9		6.3
JH 31947			53642	135721	41027	1.77	6.08	1.65
DKC 7074 (C)			48931	99283	26069	1.61	4.71	1.05
CD at 5%			NS		1977.5	NS		0.1
CV (%)			12.7		6.3	12.8		6.5

Density	Nutrient levels	Genotypes	Disease (TLB) (1-9 scale)	Insect (FAW) %	FAW attack at 30 DAS on % plant population	FAW attack at 45 DAS on % plant population	FAW attack at silking stage on % plant population
			Godhara	Godhara	Udaipur	Udaipur	Udaipur
Normal	RDF	JH 31947	1.00	2.67	30.3	48.2	53.5
		DKC 7074 (C)	2.00	3.67	30.5	49.5	54.8
	150% RDF	JH 31947	0.00	3.33	30.1	52.7	58.0
		DKC 7074 (C)	1.67	3.67	30.3	49.3	55.0
High	RDF	JH 31947	1.00	3.00	29.9	50.4	56.0
		DKC 7074 (C)	2.33	3.33	29.8	48.7	54.2
	150% RDF	JH 31947	0.00	3.00	30.7	49.5	55.2
		DKC 7074 (C)	3.00	2.67	29.9	49.9	55.6
Mean of location			1.38	3.17	30.2	49.8	55.3
Normal			1.17	3.33	30.3	49.9	55.3
High			1.58	3.00	30.1	49.6	55.3
CD at 5%			0.4	NS	NS	NS	NS
CV (%)			14.8	6.4	11.6	14.6	12.8
RDF			1.58	3.17	30.1	49.2	54.7
150% RDF			1.17	3.17	30.2	50.4	55.9
CD at 5%			NS	NS	NS	NS	NS
CV (%)			33.2	28.8	11.6	6.8	6.5
JH 31947			0.50	3.00	30.3	50.2	55.7
DKC 7074 (C)			2.25	3.33	30.1	49.3	54.9
CD at 5%			0.5	NS	NS	NS	NS
CV (%)			42.0	22.3	11.3	6.7	6.4

Table10: Performance of pre release early maturity genotypes in rainfed *Kharif* under varying planting densities and nutrient levels in Central Western Zone (CWZ).

Density	Nutrient levels	Genotypes	Grain yield (kg/ha)			Stover yield (kg/ha)		
			Ambikapur	Chhindwara	Godhara	Ambikapur	Chhindwara	Godhara
Normal	RDF	Vivek hybrid 45	5037	4470	4033	11675	7882	4033
		DKC 7074 (C)	5481	4580	8667	12527	8423	8633
	150% RDF	Vivek hybrid 45	5667	6395	3833	12787	8640	3433
		DKC 7074 (C)	6148	6809	9433	13811	9361	9467
High	RDF	Vivek hybrid 45	5370	7437	4733	12181	7037	4200
		DKC 7074 (C)	5481	7711	10233	12401	7970	9867
	150% RDF	Vivek hybrid 45	6370	7743	3633	14336	7110	3167
		DKC 7074 (C)	6593	7950	10567	14713	8560	9867
Mean of location			5768.5	6636.8	6891.7	13053.8	8122.8	6583.3
Normal			5583	5563	6492	12700	8577	6392
High			5954	7710	7292	13408	7699	6775
CD at 5%			278.9	251.9	NS	625.6	NS	NS
CV (%)			2.8	2.2	13.7	2.7	7.7	18.0
RDF			5343	6049	6917	12196	7828	6683
150% RDF			6194	7224	6867	13912	8418	6483
CD at 5%			589.6	322.6	NS	1332.4	413.2	NS
CV (%)			9.0	4.3	16.0	9.0	4.5	11.4
Vivek hybrid 45			5611	6511	4058	12745	7667	3708
DKC 7074 (C)			5926	6763	9725	13363	8578	9458
CD at 5%			NS	149.1	649.4	NS	93.2	755.8
CV (%)			14.9	2.4	10.0	14.4	1.2	12.2

Density	Nutrient levels	Genotypes	Plants ('000/ha)			Cobs ('000/ha)		
			Ambikapur	Chhindwara	Godhara	Ambikapur	Chhindwara	Godhara
Normal	RDF	Vivek hybrid 45	81.1	64.6	42.0	80.0	64.4	40.7
		DKC 7074 (C)	81.9	65.1	67.3	81.9	65.0	68.0
	150% RDF	Vivek hybrid 45	81.1	61.2	40.0	80.4	75.7	38.7
		DKC 7074 (C)	79.6	61.7	73.7	79.6	83.6	73.7
High	RDF	Vivek hybrid 45	107.0	80.3	42.3	106.3	80.1	41.3
		DKC 7074 (C)	108.1	82.3	85.7	108.1	81.8	85.3
	150% RDF	Vivek hybrid 45	108.9	85.0	33.7	108.1	71.4	33.0
		DKC 7074 (C)	109.3	85.5	93.0	109.3	75.2	91.3
Mean of location			94.6	73.2	59.7	94.2	74.7	59.0
Normal			80.9	63.2	55.8	80.5	72.2	55.3
High			108.3	83.2	63.7	108.0	77.1	62.8
CD at 5%			2.6	3.2	NS	2.1	2.0	NS
CV (%)			1.6	2.5	16.7	1.3	1.5	14.6
RDF			94.5	73.1	59.3	94.1	72.8	58.8
150% RDF			94.7	73.3	60.1	94.4	76.5	59.2
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			1.6	3.7	11.3	1.8	4.4	11.9
Vivek hybrid 45			94.5	72.8	39.5	93.7	72.9	38.4
DKC 7074 (C)			94.7	73.6	79.9	94.7	76.4	79.6
CD at 5%			NS	NS	7.7	NS	1.6	8.0
CV (%)			2.2	2.3	13.6	1.6	2.2	14.4

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Density	Nutrient levels	Genotypes	Plant height (cm)			Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
			Ambikapur	Chhindwara	Godhara	Chhindwara	Chhindwara	Chhindwara	Chhindwara
Normal	RDF	Vivek hybrid 45	200.2	197.5	127.7	17.0	15.6	12.8	22.0
		DKC 7074 (C)	214.8	207.9	145.7	18.0	16.0	13.1	25.5
	150% RDF	Vivek hybrid 45	220.6	198.1	132.7	18.0	16.7	13.0	28.0
		DKC 7074 (C)	226.3	208.0	157.7	18.2	16.0	14.2	29.0
High	RDF	Vivek hybrid 45	211.5	196.3	136.7	16.1	15.0	13.8	27.9
		DKC 7074 (C)	220.2	204.7	126.3	17.9	15.9	14.6	28.6
	150% RDF	Vivek hybrid 45	227.5	197.0	143.3	17.7	15.8	13.0	27.7
		DKC 7074 (C)	232.7	202.5	162.3	18.5	16.0	13.2	27.8
Mean of location			219.2	201.5	141.5	17.7	15.9	13.5	27.1
Normal			215.5	202.9	140.9	17.8	16.1	13.3	26.1
High			223.0	200.1	142.2	17.6	15.7	13.7	28.0
CD at 5%			NS	NS	NS	NS	NS	0.3	NS
CV (%)			7.2	7.9	3.0	6.0	1.8	1.3	7.9
RDF			211.7	201.6	134.1	17.2	15.6	13.6	26.0
150% RDF			226.8	201.4	149.0	18.1	16.1	13.4	28.1
CD at 5%			10.8	NS	5.8	0.2	NS	NS	1.3
CV (%)			4.3	4.3	3.6	1.1	4.1	4.6	4.1
Vivek hybrid 45			215.0	197.2	135.1	17.2	15.8	13.1	26.4
DKC 7074 (C)			223.5	205.8	148.0	18.2	16.0	13.8	27.7
CD at 5%			8.4	2.2	5.7	0.7	NS	0.6	0.3
CV (%)			4.1	1.2	4.3	4.2	2.0	4.4	1.3

Density	Nutrient levels	Genotypes	Days to 50% tasseling			Days to 50% Silking			100-seed weight (g)
			Ambikapur	Chhindwara	Godhara	Ambikapur	Chhindwara	Godhara	Godhara
Normal	RDF	Vivek hybrid 45	42.7	53.6	47.0	45.7	61.3	52.0	32.3
		DKC 7074 (C)	44.7	55.9	47.7	47.7	63.0	53.0	33.0
	150% RDF	Vivek hybrid 45	43.0	54.0	46.7	46.0	61.8	51.7	33.3
		DKC 7074 (C)	45.0	56.0	48.0	48.0	63.1	53.3	34.0
High	RDF	Vivek hybrid 45	42.7	55.0	46.7	45.7	62.0	51.7	33.0
		DKC 7074 (C)	44.0	56.8	48.0	47.0	62.7	53.3	32.3
	150% RDF	Vivek hybrid 45	43.3	54.2	46.3	46.3	61.7	51.3	34.0
		DKC 7074 (C)	43.7	56.2	47.0	46.7	62.9	52.3	32.7
Mean of location			43.6	55.2	47.2	46.6	62.3	52.3	33.1
Normal			43.8	54.9	47.3	46.8	62.3	52.5	33.2
High			43.4	55.6	47.0	46.4	62.3	52.2	33.0
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			2.5	2.9	0.4	2.3	1.1	0.4	4.4
RDF			43.5	55.3	47.3	46.5	62.3	52.5	32.7
150% RDF			43.8	55.1	47.0	46.8	62.4	52.2	33.5
CD at 5%			NS	NS	0.2	NS	NS	0.2	NS
CV (%)			1.8	3.3	0.4	1.6	1.3	0.4	4.2
Vivek hybrid 45			42.9	54.2	46.7	45.9	61.7	51.7	33.2
DKC 7074 (C)			44.3	56.2	47.7	47.3	62.9	53.0	33.0
CD at 5%			0.9	1.0	NS	0.9	1.1	1.3	NS
CV (%)			2.1	2.0	2.3	2.0	1.9	2.7	4.3

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Density	Nutrient levels	Genotypes	Net returns (Rs./ha)			B:C ratio			Insect (FAW) damage (%)
			Ambikapur	Godhara	Chhindwara	Ambikapur	Godhara	Chhindwara	Godhara
Normal	RDF	Vivek hybrid 45	46579	65000	38624	1.61	3.53	2.03	1.00
		DKC 7074 (C)	52797	169105	43721	1.82	7.57	2.09	1.33
	150% RDF	Vivek hybrid 45	52651	57922	66660	1.67	3.13	2.99	1.67
		DKC 7074 (C)	59639	185170	69549	1.90	7.81	3.20	2.67
High	RDF	Vivek hybrid 45	50910	78986	80267	1.76	4.01	3.51	2.67
		DKC 7074 (C)	52482	203086	85015	1.81	8.73	3.65	2.33
	150% RDF	Vivek hybrid 45	62998	52818	94171	2.00	2.91	3.66	2.33
		DKC 7074 (C)	65984	208183	107647	2.10	8.50	3.77	1.33
Mean of location			55504.9	127533.8	73206.7	1.83	5.77	3.11	1.92
Normal			52916	119299	54638	1.75	5.51	2.58	1.67
High			58093	135768	91775	1.92	6.04	3.65	2.17
CD at 5%			4129.5		137.5	0.1		0.31	0.0
CV (%)			4.2		0.11	4.1		5.67	0.0
RDF			50692	129044	61907	1.75	5.96	2.82	1.83
150% RDF			60318	126023	84507	1.92	5.59	3.41	2.00
CD at 5%			8737.5		4654.3	NS		0.08	NS
CV (%)			13.9		5.6	14.2		2.23	62.1
Vivek hybrid 45			53284	63682	69931	1.76	3.40	3.05	1.92
DKC 7074 (C)			57726	191386	76483	1.91	8.15	3.18	1.92
CD at 5%			NS		3545.7	NS		0.09	NS
CV (%)			22.7		5.15	23.2		3.17	30.1

Table11: Performance of pre release QPM genotypes in *Kharif* under varying planting densities and nutrient levels in Northern Hill Zone (NHZ).

Density	Nutrient levels	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)		Cob yield (kg/ha)
			Bajaura	Gossaingaon	Bajaura	Gossaingaon	Gossaingaon
Normal	RDF	APQH1 (QPM+Pro A)	11372	4929	15694	7453	6383
		APQH9 (Check for Pro Vit A)	12876	3915	16095	6301	4927
		APH1 (Pro vit A)	10419	3700	13753	5915	5073
		HQPM1 (Check)	11577	4084	16440	6267	5600
	150% RDF	APQH1 (QPM+Pro A)	12827	4182	18214	6500	5433
		APQH9 (Check for Pro Vit A)	13087	4603	17274	6699	5633
		APH1 (Pro vit A)	12265	4413	15699	7061	5900
		HQPM1 (Check)	12523	4385	18534	7100	5400
High	RDF	APQH1 (QPM+Pro A)	12765	6149	17361	7900	7317
		APQH9 (Check for Pro Vit A)	13654	5215	16931	7820	6267
		APH1 (Pro vit A)	12387	5303	15484	6550	5833
		HQPM1 (Check)	12501	6695	15751	9826	7082
	150% RDF	APQH1 (QPM+Pro A)	13574	6322	17375	8452	7300
		APQH9 (Check for Pro Vit A)	13819	5055	18241	7067	6033
		APH1 (Pro vit A)	13597	5643	17948	7981	6567
		HQPM1 (Check)	13453	7345	19104	8955	8300
Mean of location			12668.5	5121.0	16868.5	7365.4	6190.5
Normal			12118	4276	16463	6662	5544
High			13219	5966	17274	8069	6837
CD at 5%			NS	469.7	NS	1054.6	NS
CV (%)			10.9	7.4	10.7	11.5	17.3
RDF			12194	4999	15938	7254	6060
150% RDF			13143	5243	17799	7477	6321
CD at 5%			NS	NS	1660.9	NS	NS
CV (%)			12.4	21.0	12.3	7.8	14.4
APQH1 (QPM+Pro A)			12635	5395	17161	7576	6608
APQH9 (Check for Pro Vit A)			13359	4697	17135	6972	5715
APH1 (Pro vit A)			12167	4765	15721	6877	5843
HQPM1 (Check)			12514	5627	17457	8037	6595
CD at 5%			NS	418.1	1133.7	524.2	466.9
CV (%)			8.0	9.7	8.0	8.4	9.0

Cont…

Density	Nutrient levels	Genotypes	Plants ('000/ha)		Cobs ('000/ha)		Plant height (cm)	
			Bajaura	Gossaingaon	Bajaura	Gossaingaon	Bajaura	Gossaingaon
Normal	RDF	APQH1 (QPM+Pro A)	76.6	60.7	80.2	60.3	217.1	155.0
		APQH9 (Check for Pro Vit A)	76.6	57.7	81.2	54.0	193.3	142.3
		APH1 (Pro vit A)	75.9	51.3	73.1	51.3	199.5	128.7
		HQPM1 (Check)	80.7	58.3	78.2	56.7	213.1	142.3
	150% RDF	APQH1 (QPM+Pro A)	77.0	59.7	77.3	56.0	213.7	148.7
		APQH9 (Check for Pro Vit A)	78.4	59.3	77.7	60.0	201.1	137.9
		APH1 (Pro vit A)	77.0	58.0	80.3	56.3	203.3	133.1
		HQPM1 (Check)	79.9	62.3	76.9	57.3	224.4	157.9
High	RDF	APQH1 (QPM+Pro A)	91.0	72.0	86.5	69.3	216.3	129.4
		APQH9 (Check for Pro Vit A)	92.9	70.0	90.3	67.7	211.3	124.3
		APH1 (Pro vit A)	94.4	68.0	91.3	67.3	190.3	118.3
		HQPM1 (Check)	93.6	85.0	88.0	83.7	216.0	138.3
	150% RDF	APQH1 (QPM+Pro A)	96.2	76.7	89.6	74.3	219.2	126.7
		APQH9 (Check for Pro Vit A)	92.5	71.7	91.4	69.0	205.5	122.3
		APH1 (Pro vit A)	92.9	73.0	90.3	70.3	206.1	118.6
		HQPM1 (Check)	95.8	76.3	92.8	74.7	230.6	128.7
Mean of location			85.7	66.3	84.1	64.3	210.0	134.5
Normal			77.7	58.4	78.1	56.5	208.2	143.2
High			93.7	74.1	90.0	72.0	211.9	125.8
CD at 5%			3.8	1.1	3.0	3.9	NS	NS
CV (%)			3.6	1.3	2.8	4.9	2.9	16.8
RDF			85.2	65.4	83.6	63.8	207.1	134.8
150% RDF			86.2	67.1	84.5	64.8	213.0	134.2
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			4.3	13.8	4.1	14.3	7.1	9.3
APQH1 (QPM+Pro A)			85.2	67.3	83.4	65.0	216.6	140.0
APQH9 (Check for Pro Vit A)			85.1	64.7	85.1	62.7	202.8	131.7
APH1 (Pro vit A)			85.0	62.6	83.8	61.3	199.8	124.7
HQPM1 (Check)			87.5	70.5	84.0	68.1	221.0	141.8
CD at 5%			NS	4.6	NS	4.5	5.4	12.9
CV (%)			4.6	8.2	4.9	8.3	3.0	11.3

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Density	Nutrient levels	Genotypes	Days 50% tasseling		Days 50% silking		Days to maturity
			Bajaura	Gossaingaon	Bajaura	Gossaingaon	Gossaingaon
Normal	RDF	APQH1 (QPM+Pro A)	61.3	57.7	63.3	61.3	130.3
		APQH9 (Check for Pro Vit A)	53.3	55.3	55.3	59.3	123.0
		APH1 (Pro vit A)	60.0	55.3	62.0	59.3	125.0
		HQPM1 (Check)	61.3	59.3	63.3	66.0	129.0
	150% RDF	APQH1 (QPM+Pro A)	61.7	60.7	63.7	65.3	130.7
		APQH9 (Check for Pro Vit A)	53.0	54.7	55.0	58.7	121.3
		APH1 (Pro vit A)	59.0	55.3	61.0	60.0	125.3
		HQPM1 (Check)	59.0	58.7	61.0	61.3	129.7
High	RDF	APQH1 (QPM+Pro A)	60.0	61.0	62.0	67.0	130.7
		APQH9 (Check for Pro Vit A)	53.0	55.0	55.0	59.7	126.0
		APH1 (Pro vit A)	62.0	57.0	64.0	66.0	127.7
		HQPM1 (Check)	62.0	61.0	64.0	64.3	130.7
	150% RDF	APQH1 (QPM+Pro A)	62.0	59.0	64.0	64.7	129.3
		APQH9 (Check for Pro Vit A)	53.0	55.3	55.0	60.0	122.7
		APH1 (Pro vit A)	62.0	57.7	64.0	63.0	124.7
		HQPM1 (Check)	61.0	59.7	63.0	65.0	129.3
Mean of location			59.0	57.7	61.0	62.6	127.2
Normal			58.6	57.1	60.6	61.4	126.8
High			59.4	58.2	61.4	63.7	127.6
CD at 5%			0.5	NS	0.5	NS	NS
CV (%)			0.6	7.0	0.6	5.2	1.9
RDF			59.1	57.7	61.1	62.9	127.8
150% RDF			58.8	57.6	60.8	62.3	126.6
CD at 5%			NS	NS	NS	NS	NS
CV (%)			0.8	2.8	0.7	3.6	2.0
APQH1 (QPM+Pro A)			61.3	59.6	63.3	64.6	130.3
APQH9 (Check for Pro Vit A)			53.1	55.1	55.1	59.4	123.3
APH1 (Pro vit A)			60.8	56.3	62.8	62.1	125.7
HQPM1 (Check)			60.8	59.7	62.8	64.2	129.7
CD at 5%			0.3	2.1	0.3	2.6	1.9
CV (%)			0.7	4.4	0.7	5.0	1.8

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Density	Nutrient levels	Genotypes	100-seed weight (g)		Net returns (Rs./ha)		B:C ratio	
			Bajaura	Gossaingaon	Bajaura	Gossaingaon	Bajaura	Gossaingaon
Normal	RDF	APQH1 (QPM+Pro A)	30.7	30.0	202187	50033	5.89	2.03
		APQH9 (Check for Pro Vit A)	30.7	27.3	229938	29767	6.69	1.61
		APH1 (Pro vit A)	31.3	29.3	181040	25467	5.27	1.52
		HQPM1 (Check)	30.0	28.7	207426	33140	6.04	1.68
	150% RDF	APQH1 (QPM+Pro A)	29.3	28.7	231028	32470	6.27	1.63
		APQH9 (Check for Pro Vit A)	28.7	26.0	233696	40890	6.34	1.80
		APH1 (Pro vit A)	30.7	29.7	215678	37090	5.85	1.72
		HQPM1 (Check)	30.7	29.7	226261	36530	6.14	1.71
High	RDF	APQH1 (QPM+Pro A)	30.0	29.3	222989	74433	5.31	2.53
		APQH9 (Check for Pro Vit A)	28.3	29.7	237985	55760	5.67	2.15
		APH1 (Pro vit A)	32.0	28.3	212267	57513	5.06	2.18
		HQPM1 (Check)	29.3	27.0	214869	85360	5.12	2.76
	150% RDF	APQH1 (QPM+Pro A)	28.0	29.3	236996	75284	5.58	2.47
		APQH9 (Check for Pro Vit A)	30.7	27.7	243195	49930	5.72	1.98
		APH1 (Pro vit A)	32.0	29.3	238604	61704	5.62	2.21
		HQPM1 (Check)	30.0	29.0	238474	95737	5.61	2.87
Mean of location			30.1	28.7	223289.5	52569.3	5.76	2.05
Normal			30.3	28.7	215907	35674	6.06	1.72
High			30.0	28.7	230672	69465	5.46	2.39
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			6.2	13.5	12.7	14.4	12.7	7.3
RDF			30.3	28.7	213588	51434	5.63	2.06
150% RDF			30.0	28.7	232992	53705	5.89	2.05
CD at 5%			NS	NS	NS	9394.0	NS	0.2
CV (%)			3.1	15.2	14.6	41.0	13.5	21.1
APQH1 (QPM+Pro A)			29.5	29.3	223300	58055	5.76	2.17
APQH9 (Check for Pro Vit A)			29.6	27.7	236204	44087	6.11	1.88
APH1 (Pro vit A)			31.5	29.2	211897	45444	5.45	1.91
HQPM1 (Check)			30.0	28.6	221757	62692	5.73	2.26
CD at 5%			1.5	NS	NS	8362.7	NS	0.2
CV (%)			5.8	12.1	9.4	18.9	9.6	9.7

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Density	Nutrient levels	Genotypes	Barrenness in maize (%)	Cob length (cm)	Grain rows/ cob	Grains/ row	Moisture (%)	Shelling (%)
			Bajaura	Bajaura	Bajaura	Bajaura	Gossaingaon	Gossaingaon
Normal	RDF	APQH1 (QPM+Pro A)	2.8	14.8	15.2	34.0	22.0	78.0
		APQH9 (Check for Pro Vit A)	1.0	15.5	14.4	33.7	21.4	77.1
		APH1 (Pro vit A)	5.9	16.0	13.6	35.3	21.3	73.5
		HQPM1 (Check)	6.4	15.8	14.5	33.3	22.1	72.1
	150% RDF	APQH1 (QPM+Pro A)	5.3	15.9	14.5	35.2	20.7	75.0
		APQH9 (Check for Pro Vit A)	2.8	16.1	15.2	38.4	21.4	75.7
		APH1 (Pro vit A)	2.4	16.0	13.0	35.1	21.9	77.2
		HQPM1 (Check)	4.7	16.7	14.7	35.8	21.9	74.9
High	RDF	APQH1 (QPM+Pro A)	6.1	15.4	14.9	34.1	22.9	76.3
		APQH9 (Check for Pro Vit A)	2.8	15.6	16.4	34.7	21.7	75.1
		APH1 (Pro vit A)	4.7	14.3	20.7	35.9	22.3	73.7
		HQPM1 (Check)	7.1	16.0	14.1	35.5	23.1	73.4
	150% RDF	APQH1 (QPM+Pro A)	9.6	15.4	14.5	34.4	23.2	75.7
		APQH9 (Check for Pro Vit A)	2.0	16.4	14.5	38.9	20.1	75.8
		APH1 (Pro vit A)	4.5	16.6	13.7	37.7	21.5	74.7
		HQPM1 (Check)	4.6	15.9	14.3	35.9	22.0	77.1
Mean of location			4.5	15.8	14.9	35.5	21.9	75.3
Normal			3.9	15.8	14.4	35.1	21.6	75.4
High			5.2	15.7	15.4	35.9	22.1	75.2
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			36.2	8.4	27.8	8.3	6.8	3.5
RDF			4.6	15.4	15.5	34.6	22.1	74.9
150% RDF			4.5	16.1	14.3	36.4	21.6	75.8
CD at 5%			NS	NS	NS	1.5	0.5	NS
CV (%)			43.5	5.6	21.2	5.4	2.6	4.2
APQH1 (QPM+Pro A)			6.0	15.4	14.8	34.4	22.2	76.2
APQH9 (Check for Pro Vit A)			2.1	15.9	15.1	36.5	21.2	75.9
APH1 (Pro vit A)			4.4	15.7	15.3	36.0	21.8	74.8
HQPM1 (Check)			5.7	16.1	14.4	35.1	22.3	74.4
CD at 5%			1.9	NS	NS	NS	NS	NS
CV (%)			48.9	6.1	18.2	5.4	5.6	4.3

Table 12: Performance of pre release QPM genotypes *Kharif* under varying planting densities and nutrient levels in North West Plain Zone (NWPZ).

Density	Nutrient levels	Genotypes	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)
			Ludhiana				
Normal	RDF	IIMRQPMH 1708	5826	7278	81.3	79.9	198.3
		Pratap QPM Hybrid 1 (C)	6132	7667	79.2	77.1	191.7
		IIMRQPMH 1601	3771	4722	77.1	72.9	198.3
		APQH1(QPM+PRO-A)	4882	6111	77.1	73.6	197.7
		HQPM I (C)	4118	5153	77.1	71.5	197.3
		VEQH-16-1	5278	6597	76.4	71.5	198.3
		QPM MH 27	4444	6729	76.4	72.2	200.0
	150% RDF	IIMRQPMH 1708	6069	7951	81.3	80.6	202.0
		Pratap QPM Hybrid 1 (C)	6361	8333	79.9	78.5	196.3
		IIMRQPMH 1601	4389	5750	78.5	75.7	200.0
		APQH1(QPM+PRO-A)	5201	6813	79.2	76.4	206.0
		HQPM I (C)	4646	6083	76.4	73.6	201.0
		VEQH-16-1	6090	7979	77.8	74.3	200.7
		QPM MH 27	5181	7979	76.4	73.6	211.7
High	RDF	IIMRQPMH 1708	6688	9028	106.3	103.5	201.7
		Pratap QPM Hybrid 1 (C)	6715	9069	102.1	98.6	195.3
		IIMRQPMH 1601	4799	6486	103.5	100.0	207.0
		APQH1(QPM+PRO-A)	6222	8396	102.8	98.6	202.7
		HQPM I (C)	5660	7639	100.7	95.8	204.0
		VEQH-16-1	6590	8896	97.9	93.8	199.7
		QPM MH 27	5875	9153	100.0	95.8	204.7
	150% RDF	IIMRQPMH 1708	6972	9757	106.3	103.5	205.7
		Pratap QPM Hybrid 1 (C)	6993	9792	103.5	100.7	198.7
		IIMRQPMH 1601	5632	7882	104.2	100.0	204.0
		APQH1(QPM+PRO-A)	6278	8792	104.2	100.0	207.7
		HQPM I (C)	5847	8188	102.1	97.9	204.0
		VEQH-16-1	6931	9701	99.3	95.8	203.3
		QPM MH 27	5514	8757	100.7	97.2	215.0
Mean of location			5682.3	7738.6	90.3	86.9	201.9
Normal			5171	6796	78.1	75.1	200.0
High			6194	8681	102.4	98.7	203.8
CD at 5%			478.3	672.2	2.3	3.1	NS
CV (%)			9.0	9.3	2.7	3.8	6.8
RDF			5500	7352	89.8	86.1	199.8
150% RDF			5865	8125	90.7	87.7	204.0
CD at 5%			NS	579.5	NS	NS	NS
CV (%)			12.6	12.4	3.8	5.2	7.5
IIMRQPMH 1708			6389	8503	93.8	91.8	201.9
Pratap QPM Hybrid 1 (C)			6550	8715	91.1	88.7	195.5
IIMRQPMH 1601			4648	6210	90.8	87.2	202.3
APQH1(QPM+PRO-A)			5646	7528	90.8	87.2	203.5
HQPM I (C)			5068	6766	89.1	84.7	201.6
VEQH-16-1			6222	8293	87.8	83.9	200.5
QPM MH 27			5253	8155	88.4	84.7	207.8
CD at 5%			496.9	661.1	2.8	3.8	NS
CV (%)			10.7	10.4	3.7	5.3	5.4

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Density	Nutrient levels	Genotypes	Days to 50% tasseling	Days to 50% silking	Barren plant ('000/ha)	Net returns (Rs/ha)	BC ratio
			Ludhiana				
Normal	RDF	IIMRQPMH 1708	54.0	56.3	1.39	83926	2.03
		Pratap QPM Hybrid 1 (C)	52.3	54.7	1.39	90503	2.19
		IIMRQPMH 1601	54.7	57.0	3.47	39748	0.96
		APQH1(QPM+PRO-A)	53.3	55.7	3.47	63637	1.54
		HQPM I (C)	53.7	56.0	4.17	47209	1.14
		VEQH-16-1	53.0	55.3	4.17	72137	1.75
		QPM MH 27	55.0	57.3	3.47	55629	1.35
	150% RDF	IIMRQPMH 1708	53.0	55.0	1.39	85960	1.91
		Pratap QPM Hybrid 1 (C)	51.0	53.0	1.39	92252	2.05
		IIMRQPMH 1601	53.7	55.7	2.78	49708	1.11
		APQH1(QPM+PRO-A)	52.3	54.3	2.78	67232	1.50
		HQPM I (C)	52.7	54.7	2.78	55247	1.23
		VEQH-16-1	51.3	53.3	3.47	86410	1.92
		QPM MH 27	54.3	56.3	2.78	68216	1.52
High	RDF	IIMRQPMH 1708	55.0	58.0	2.78	101420	2.35
		Pratap QPM Hybrid 1 (C)	53.0	56.0	3.47	102026	2.36
		IIMRQPMH 1601	55.3	58.3	3.47	60592	1.40
		APQH1(QPM+PRO-A)	54.0	57.0	4.17	91356	2.12
		HQPM I (C)	54.7	57.7	4.86	79198	1.83
		VEQH-16-1	53.7	56.7	4.17	99317	2.30
		QPM MH 27	55.7	58.7	4.17	85320	1.98
	150% RDF	IIMRQPMH 1708	53.3	55.3	2.78	104354	2.23
		Pratap QPM Hybrid 1 (C)	51.3	53.3	2.78	104813	2.24
		IIMRQPMH 1601	54.3	56.3	4.17	75299	1.61
		APQH1(QPM+PRO-A)	53.0	55.0	4.17	89307	1.91
		HQPM I (C)	53.0	55.0	4.17	79971	1.71
		VEQH-16-1	51.7	53.7	3.47	103454	2.21
		QPM MH 27	54.7	56.7	3.47	73988	1.58
Mean of location			53.5	55.8	3.25	78865.3	1.79
Normal			53.2	55.3	2.78	68415	1.58
High			53.8	56.3	3.72	89315	1.99
CD at 5%			NS	0.9	0.9	10371.9	0.2
CV (%)			1.5	1.8	30.5	14.0	13.4
RDF			54.1	56.8	3.47	76573	1.81
150% RDF			52.8	54.8	3.03	81158	1.77
CD at 5%			0.6	0.8	NS	NS	NS
CV (%)			1.9	2.2	52.8	19.7	19.8
IIMRQPMH 1708			53.8	56.2	2.08	93915	2.13
Pratap QPM Hybrid 1 (C)			51.9	54.3	2.26	97398	2.21
IIMRQPMH 1601			54.5	56.8	3.47	56337	1.27
APQH1(QPM+PRO-A)			53.2	55.5	3.65	77883	1.76
HQPM I (C)			53.5	55.8	3.99	65406	1.48
VEQH-16-1			52.4	54.8	3.82	90330	2.04
QPM MH 27			54.9	57.3	3.47	70788	1.61
CD at 5%			1.4	1.5	1.0	10731.5	0.3
CV (%)			3.3	3.2	37.0	16.6	16.8

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Treatment	Pantnagar				
	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants (000/ha)	Cobs (000/ha)	Plant height (cm)
Nutrient level					
RDF(120:60:40)	5,480	8,447	62.5	62.5	159.9
150% RDF	5,794	8,945	62.2	62.2	161.9
CD (5%)	NS	NS	NS	NS	NS
CV (%)	10.0	11.0	5.5	5.5	3.5
Genotypes					
IIMRQPMH 1708	6,219	9,881	61.1	61.1	164.6
Pratap QPM Hybrid 1 (C)	5,497	9,167	62.7	62.7	159.0
IIMRQPMH 1601	6,495	7,778	61.1	61.1	159.5
APQH1(QPM+PRO-A)	5,345	8,254	63.1	63.1	156.9
HQPM I (C)	5,367	9,841	63.1	63.1	159.7
VEQH-16-1	5,463	7,857	62.3	62.3	163.1
QPM MH 27	5,072	8,095	63.1	63.1	163.6
CD (5%)	672	1,138	NS	NS	NS
CV (%)	10.0	11.0	5.5	5.5	3.5

Treatment	Pantnagar				
	Days to 50% Tasseling	Days to 50% Silking	100-grain weight (g)	Net return (Rs./ha)	B:C ratio
Nutrient level					
RDF(120:60:40)	53.7	56.8	20.8	61241	1.74
150% RDF	53.7	56.8	21.4	63678	1.66
CD (5%)	NS	NS	NS	NS	NS
CV (%)	1.2	1.0	5.7	15.9	15.7
Genotypes					
IIMRQPMH 1708	53.7	56.8	21.4	72705	1.98
Pratap QPM Hybrid 1 (C)	53.2	56.5	21.2	59995	1.63
IIMRQPMH 1601	54.0	57.0	22.4	77565	2.11
APQH1(QPM+PRO-A)	53.3	56.5	20.4	57332	1.56
HQPM I (C)	54.0	57.2	21.3	57703	1.57
VEQH-16-1	53.8	56.8	21.5	59398	1.62
QPM MH 27	54.0	57.2	19.7	52517	1.43
CD (5%)	NS	NS	1.4	11835	0.32
CV (%)	1.2	1.0	5.7	15.9	15.7

*Gross return was calculated by considering minimum support price of maize Rs. 1760/quintal (2019-20).

Nutrient levels	Genotypes	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	100-grain weight (g)
		Delhi					
RDF	IIMRQPMH 1708	5555	9780	65.2	64.6	236.0	20.8
	Pratap QPM Hybrid 1 (C)	5195	10230	57.8	53.3	213.5	24.6
	IIMRQPMH 1601	5285	8565	51.0	56.9	214.5	21.7
	APQH1(QPM+PRO-A)	4455	7330	57.5	52.2	209.5	28.3
	HQPM I (C)	5470	7780	64.0	64.6	229.5	24.2
	VEQH-16-1	5940	8820	61.3	60.2	200.0	32.5
	QPM MH 27	5420	9165	54.5	59.3	224.5	26.4
150% RDF	IIMRQPMH 1708	5970	10555	63.4	58.7	249.0	20.9
	Pratap QPM Hybrid 1 (C)	5245	10275	60.5	55.7	218.0	24.7

Cont...

Nutrient levels	Genotypes	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	100-grain weight (g)
		Delhi					
	IIMRQPMH 1601	5550	9205	52.7	56.9	221.0	21.8
	APQH1(QPM+PRO-A)	5210	9370	58.9	56.2	200.5	28.3
	HQPM I (C)	6560	10000	66.3	63.4	237.0	24.3
	VEQH-16-1	6210	9345	59.2	56.8	223.0	32.6
	QPM MH 27	6055	9795	63.4	67.0	230.0	26.3
Location mean		5580.0	9301.1	59.7	59.0	221.9	25.5
C.D.(5%) AiBj-AiBk		959.2	1806.1	14.8	20.2	12.2	0.3
C.D.(5%) AiBk-AjBk		1592.5	1672.5	19.6	24.2	16.6	0.9
F(5%)		NS	NS	NS	NS	NS	NS
RDF		5331	8810	58.7	58.7	218.2	25.5
150% RDF		5829	9792	60.6	59.2	225.5	25.5
C.D.(5%) Ai-Aj		2069.3	63.5	23.1	25.9	20.0	1.2
C.V.(%) Error A		7.7	0.1	8.1	9.1	1.9	1.0
F(5%)		NS	S	NS	NS	NS	NS
IIMRQPMH 1708		5763	10168	64.3	61.6	242.5	20.8
Pratap QPM Hybrid 1 (C)		5220	10253	59.1	54.5	215.8	24.6
IIMRQPMH 1601		5418	8885	51.8	56.9	217.8	21.7
APQH1(QPM+PRO-A)		4833	8350	58.2	54.2	205.0	28.3
HQPM I (C)		6015	8890	65.2	64.0	233.3	24.2
VEQH-16-1		6075	9083	60.2	58.5	211.5	32.6
QPM MH 27		5738	9480	59.0	63.1	227.3	26.3
C.D.(5%)Bi-Bj		678.2	1277.1	10.5	14.3	8.6	0.2
C.V.(%)ErrorB		7.9	8.9	11.4	15.7	2.5	0.6
F(5%)		S	NS	NS	NS	S	S

Table 13: Performance of pre release QPM genotypes in *Kharif* under varying planting densities and nutrient levels in North East Plain Zone (NEPZ).

Density	Nutrient levels	Genotype	Grain yield (kg/ha)		Stover yield (kg/ha)		Plants ('000/ha)	
			Dholi	Bhubaneswar	Dholi	Bhubaneswar	Dholi	Bhubaneswar
Normal	RDF	APH 1	5642	4611	6024	9450	79.3	77.2
		APQH 9 (C)	5942	5073	7076	11250	79.8	74.7
		APQH1(QPM+PRO-A)	6968	4050	7963	7858	81.4	76.1
		HQPM I	7390	3849	8839	6283	82.7	72.5
	150% RDF	APH 1	5279	4812	6457	10425	78.5	77.2
		APQH 9 (C)	6194	5313	7852	12750	79.4	74.7
		APQH1(QPM+PRO-A)	6692	4438	8940	9097	82.0	76.1
		HQPM I	7390	4091	9160	7175	81.6	72.5
High	RDF	APH 1	5689	5222	9132	12783	97.2	91.4
		APQH 9 (C)	6056	6063	6912	16889	96.3	90.6
		APQH1(QPM+PRO-A)	6963	4930	8213	10575	94.2	94.4
		HQPM I	7168	4455	7308	7722	98.2	94.2
	150% RDF	APH 1	5779	5657	8773	13856	97.3	93.6
		APQH 9 (C)	5557	6837	8256	19708	94.4	88.3
		APQH1(QPM+PRO-A)	6343	5438	8507	11774	91.4	94.4
		HQPM I	6748	4705	9175	9225	98.8	95.6
Mean of location			6362.5	4971.5	8036.7	11051.3	88.3	84.0
Normal			6437	4530	7789	9286	80.6	75.1
High			6288	5413	8285	12816	96.0	92.8
CD at 5%			18.5	320.1	61.6	474.0	1.91	3.4
CV (%)			0.23	5.2	0.62	3.5	1.74	3.2
RDF			6477	4782	7683	10351	88.6	83.9
150% RDF			6248	5161	8390	11751	87.9	84.1
CD at 5%			15.0	311.6	40.3	215.6	0.04	NS
CV (%)			0.29	7.8	0.63	2.4	0.06	3.3
APH 1			5597	5075	7597	11628	88.1	84.9
APQH 9 (C)			5937	5821	7524	15149	87.5	82.1
APQH1(QPM+PRO-A)			6742	4714	8406	9826	87.3	85.3
HQPM I			7174	4275	8621	7601	90.3	83.7
CD at 5%			31.7	311.6	42.8	343.8	0.09	NS
CV (%)			0.59	7.4	0.63	3.7	0.12	4.1

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Density	Nutrient levels	Genotype	Cobs ('000/ha)		Plant height (cm)		Days of 50% tasseling	
			Dholi	Bhubaneswar	Dholi	Bhubaneswar	Dholi	Bhubaneswar
Normal	RDF	APH 1	77.4	77.5	178.3	147.0	44.0	51.7
		APQH 9 (C)	79.5	75.3	209.7	174.8	44.7	49.3
		APQH1(QPM+PRO-A)	77.4	76.1	224.7	180.3	46.0	54.0
		HQPM I	81.7	72.8	227.3	172.3	48.3	56.7
	150% RDF	APH 1	80.6	77.2	190.3	157.3	43.7	52.0
		APQH 9 (C)	80.2	74.7	206.7	183.5	48.3	50.7
		APQH1(QPM+PRO-A)	79.5	76.1	215.0	191.7	47.7	54.3
		HQPM I	81.8	72.8	234.7	182.5	50.0	55.0
High	RDF	APH 1	94.4	91.4	182.3	155.5	46.0	51.7
		APQH 9 (C)	93.9	90.8	221.3	171.6	47.0	50.3
		APQH1(QPM+PRO-A)	93.0	94.4	213.3	179.9	50.0	54.3
		HQPM I	98.8	94.2	222.3	172.0	51.7	55.7
	150% RDF	APH 1	93.0	93.6	186.7	165.3	47.0	51.0
		APQH 9 (C)	93.1	88.6	206.0	187.4	51.5	50.7
		APQH1(QPM+PRO-A)	96.1	94.4	219.3	190.3	51.7	54.3
		HQPM I	92.5	95.8	212.0	173.0	52.3	56.3
Mean of location			87.1	84.1	209.4	174.0	48.1	53.0
Normal			79.8	75.3	210.8	173.7	46.6	53.0
High			94.4	92.9	207.9	174.4	49.7	53.0
CD at 5%			1.81	3.2	0.36	NS	0.38	NS
CV (%)			1.68	3.1	0.14	2.8	0.64	2.4
RDF			87.0	84.1	209.9	169.2	47.2	53.0
150% RDF			87.1	84.2	208.8	178.9	49.0	53.0
CD at 5%			0.08	NS	0.17	3.2	0.10	NS
CV (%)			0.12	3.2	0.10	2.3	0.27	2.3
APH 1			86.4	84.9	184.4	156.3	45.2	51.6
APQH 9 (C)			86.7	82.4	210.9	179.3	47.9	50.3
APQH1(QPM+PRO-A)			86.5	85.3	218.1	185.6	48.9	54.3
HQPM I			88.7	83.9	224.1	175.0	50.6	55.9
CD at 5%			0.08	NS	0.79	2.9	0.10	0.7
CV (%)			0.11	3.9	0.45	2.0	0.25	1.5

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Density	Nutrient levels	Genotype	Days of 50% silking		100 grain weight (g)	Net return (Rs./ha)	BC ratio
			Dholi	Bhubaneswar	Bhubaneswar	Bhubaneswar	Bhubaneswar
Normal	RDF	APH 1	49.3	54.3	23.3	36389	1.87
		APQH 9 (C)	50.3	52.0	21.9	44240	2.05
		APQH1(QPM+PRO-A)	51.7	56.7	17.9	26850	1.64
		HQPM I	52.7	58.7	16.5	23431	1.56
	150% RDF	APH 1	51.0	54.0	24.0	39808	1.95
		APQH 9 (C)	52.7	52.3	21.9	48313	2.15
		APQH1(QPM+PRO-A)	53.7	57.0	19.2	33454	1.80
		HQPM I	54.7	57.7	17.6	27544	1.66
High	RDF	APH 1	51.3	54.3	22.6	46768	2.11
		APQH 9 (C)	52.7	53.3	22.5	61077	2.45
		APQH1(QPM+PRO-A)	53.0	58.3	19.2	41805	2.00
		HQPM I	57.0	57.3	17.1	33735	1.80
	150% RDF	APH 1	50.0	52.7	24.5	54163	2.29
		APQH 9 (C)	49.2	52.0	25.4	74230	2.77
		APQH1(QPM+PRO-A)	52.7	55.7	20.1	50449	2.20
		HQPM I	57.3	57.7	17.1	37985	1.90
Mean of location			52.5	55.3	20.7	42515.1	2.01
Normal			52.0	55.3	20.3	35004	1.83
High			52.9	55.2	21.0	50027	2.19
CD at 5%			0.11	NS	NS	5440.9	0.13
CV (%)			0.17	1.5	4.1	10.3	5.2
RDF			52.3	55.6	20.1	39287	1.94
150% RDF			52.7	54.9	21.2	45743	2.09
CD at 5%			0.09	NS	NS	5296.9	0.13
CV (%)			0.22	3.9	8.4	15.5	7.8
APH 1			50.4	53.8	23.6	44282	2.05
APQH 9 (C)			51.2	52.4	22.9	56965	2.36
APQH1(QPM+PRO-A)			52.8	56.9	19.1	38140	1.91
HQPM I			55.4	57.8	17.1	30674	1.73
CD at 5%			0.10	0.7	1.7	5297.3	0.13
CV (%)			0.23	1.4	9.9	14.8	7.4

Table 14: Performance of pre release QPM genotypes in *Kharif* under varying planting densities and nutrient levels in Peninsular Zone (PZ).

Density	Nutrient levels	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)		Cob yield (kg/ha)	
			Karimnagar	Vagarai	Karimnagar	Vagarai	Karimnagar	Vagarai
Normal	RDF	APQH1(QPM+PRO-A)	7615	9502	11778	12441	11185	11121
		HQPM I (C)	6575	7881	10148	12876	9370	9258
		APQH 8 (QPM+Pro A)	5617	7631	8593	8155	8296	9285
		Pusa HM 8 (c)	5729	7958	8444	6739	8407	9278
		VEQH-16-1	6975	9080	9037	7211	9704	10196
	150% RDF	APQH1(QPM+PRO-A)	8113	10368	10074	14335	11704	12479
		HQPM I (C)	6749	8753	8778	13729	9259	10512
		APQH 8 (QPM+Pro A)	4909	7666	8555	8801	7185	9040
		Pusa HM 8 (c)	7115	7137	9741	7613	10555	8333
		VEQH-16-1	7428	8374	9926	5013	10370	9697
High	RDF	APQH1(QPM+PRO-A)	7511	10616	13259	10655	11259	12432
		HQPM I (C)	6449	9341	8148	10750	9518	10930
		APQH 8 (QPM+Pro A)	5612	10022	10444	9788	8370	11675
		Pusa HM 8 (c)	5889	9830	9148	8271	8704	11424
		VEQH-16-1	7523	10643	10296	6729	10481	12038
	150% RDF	APQH1(QPM+PRO-A)	8620	12619	10111	14059	12037	14777
		HQPM I (C)	6846	10817	9778	10235	10037	12768
		APQH 8 (QPM+Pro A)	6217	10095	9963	7722	9296	11872
		Pusa HM 8 (c)	6344	9728	8926	8984	9444	11594
		VEQH-16-1	7417	10910	9778	6769	10370	12411
Mean of location			6762.7	9448.6	9746.2	9543.7	9777.7	11056.0
Normal			6682	8435	9507	9691	9604	9920
High			6843	10462	9985	9396	9952	12192
CD at 5%			NS	717.5	NS	NS	NS	821.3
CV (%)			21.7	6.8	14.6	11.7	21.1	6.7
RDF			6550	9250	9930	9361	9530	10764
150% RDF			6976	9647	9563	9726	10026	11348
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			28.3	13.8	43.6	30.4	28.9	14.1
APQH1(QPM+PRO-A)			7965	10776	11305	12873	11546	12702
HQPM I (C)			6655	9198	9213	11897	9546	10867
APQH 8 (QPM+Pro A)			5589	8854	9389	8616	8287	10468
Pusa HM 8 (c)			6269	8663	9065	7902	9278	10158
VEQH-16-1			7336	9752	9759	6430	10231	11086
CD at 5%			707.9	779.9	1565.8	1603.4	922.9	870.8
CV (%)			12.6	9.9	19.3	20.2	11.4	9.5

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Density	Nutrient levels	Genotypes	Plants ('000/ha)		Cobs ('000/ha)	Plant height (cm)		Ear height (cm)
			Karimnagar	Vagarai	Vagarai	Karimnagar	Vagarai	Karimnagar
Normal	RDF	APQH1(QPM+PRO-A)	79.6	60.2	59.9	154.7	157.1	71.0
		HQPM I (C)	78.1	59.0	60.8	140.7	167.6	60.0
		APQH 8 (QPM+Pro A)	79.3	59.3	59.6	151.0	152.9	69.3
		Pusa HM 8 (c)	75.9	62.7	62.7	139.3	152.3	59.0
		VEQH-16-1	75.9	63.3	63.9	139.7	162.3	56.7
	150% RDF	APQH1(QPM+PRO-A)	78.9	63.3	63.9	153.7	162.9	74.0
		HQPM I (C)	77.4	61.7	62.0	148.0	166.6	64.7
		APQH 8 (QPM+Pro A)	75.9	58.6	60.2	156.0	157.0	74.7
		Pusa HM 8 (c)	76.3	56.8	57.7	147.7	153.6	63.7
		VEQH-16-1	77.0	54.6	56.2	147.7	159.1	55.3
High	RDF	APQH1(QPM+PRO-A)	90.4	70.7	69.4	153.0	166.3	70.7
		HQPM I (C)	89.3	71.9	73.5	138.3	159.9	56.0
		APQH 8 (QPM+Pro A)	90.4	68.8	70.7	147.7	165.6	69.3
		Pusa HM 8 (c)	90.4	70.7	67.9	145.7	148.4	65.3
		VEQH-16-1	91.5	71.9	72.2	144.7	171.4	60.3
	150% RDF	APQH1(QPM+PRO-A)	90.0	68.5	69.8	157.0	165.8	72.3
		HQPM I (C)	90.0	66.4	65.4	131.7	169.0	55.0
		APQH 8 (QPM+Pro A)	88.1	71.3	70.4	149.7	165.4	67.7
		Pusa HM 8 (c)	90.7	67.0	66.7	142.0	150.6	64.7
		VEQH-16-1	89.6	68.5	68.8	137.0	163.5	54.0
Mean of location			83.7	64.8	65.1	146.3	160.9	64.2
Normal			77.4	59.9	60.7	147.8	159.1	64.8
High			90.0	69.6	69.5	144.7	162.6	63.5
CD at 5%			4.8	1.8	1.7	NS	NS	NS
CV (%)			5.1	2.5	2.3	12.4	5.2	23.1
RDF			84.1	65.8	66.0	145.5	160.4	63.8
150% RDF			83.4	63.7	64.1	147.0	161.3	64.6
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			5.0	7.8	8.4	24.4	8.0	36.5
APQH1(QPM+PRO-A)			84.7	65.7	65.7	154.6	163.0	72.0
HQPM I (C)			83.7	64.7	65.4	139.7	165.8	58.9
APQH 8 (QPM+Pro A)			83.4	64.5	65.2	151.1	160.2	70.3
Pusa HM 8 (c)			83.3	64.3	63.7	143.7	151.2	63.2
VEQH-16-1			83.5	64.6	65.3	142.3	164.1	56.6
CD at 5%			NS	NS	NS	9.8	6.1	6.8
CV (%)			4.1	4.6	5.5	8.1	4.6	12.7

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Density	Nutrient levels	Genotypes	Days to 50% tasseling		Days to 50% silking		100 grain weight (g)	
			Karimnagar	Vagarai	Karimnagar	Vagarai	Karimnagar	Vagarai
Normal	RDF	APQH1(QPM+PRO-A)	47.0	57.3	51.7	60.3	32.5	27.6
		HQPM I (C)	48.3	60.3	53.3	62.3	32.0	28.1
		APQH 8 (QPM+Pro A)	48.3	60.7	52.0	63.7	28.7	27.0
		Pusa HM 8 (c)	52.3	58.0	53.0	60.7	30.2	27.5
		VEQH-16-1	45.7	57.3	49.7	60.7	31.0	29.3
	150% RDF	APQH1(QPM+PRO-A)	47.3	57.0	51.3	60.7	32.0	28.8
		HQPM I (C)	48.3	60.7	53.0	63.0	31.7	26.3
		APQH 8 (QPM+Pro A)	52.0	59.0	55.3	61.7	30.7	26.3
		Pusa HM 8 (c)	50.0	60.7	53.7	62.0	31.2	28.6
		VEQH-16-1	46.3	56.7	50.0	59.0	32.2	31.7
High	RDF	APQH1(QPM+PRO-A)	47.3	59.7	51.3	62.7	31.8	28.5
		HQPM I (C)	50.0	58.0	53.7	61.3	31.5	27.8
		APQH 8 (QPM+Pro A)	51.7	60.7	54.7	63.0	29.3	29.1
		Pusa HM 8 (c)	53.3	60.0	56.7	62.7	30.3	25.8
		VEQH-16-1	46.7	55.7	50.3	58.0	31.5	28.7
	150% RDF	APQH1(QPM+PRO-A)	47.3	58.3	51.7	61.0	32.3	30.4
		HQPM I (C)	47.3	58.3	52.0	61.3	30.2	29.9
		APQH 8 (QPM+Pro A)	49.7	58.3	54.3	62.7	30.3	26.5
		Pusa HM 8 (c)	50.7	58.3	54.0	62.3	30.7	31.7
		VEQH-16-1	47.0	55.7	50.3	58.7	32.0	28.3
Mean of location			48.8	58.5	52.6	61.4	31.1	28.4
Normal			48.6	58.8	52.3	61.4	31.2	28.1
High			49.1	58.3	52.9	61.4	31.0	28.7
CD at 5%			NS	NS	NS	NS	NS	0.2
CV (%)			2.8	1.3	1.1	1.5	3.8	0.7
RDF			49.1	58.8	52.6	61.5	30.9	27.9
150% RDF			48.6	58.3	52.6	61.2	31.3	28.9
CD at 5%			NS	NS	NS	0.3	NS	NS
CV (%)			4.2	2.0	3.2	1.5	4.6	8.3
APQH1(QPM+PRO-A)			47.3	58.1	51.5	61.2	32.2	28.8
HQPM I (C)			48.5	59.3	53.0	62.0	31.3	28.0
APQH 8 (QPM+Pro A)			50.4	59.7	54.1	62.8	29.8	27.2
Pusa HM 8 (c)			51.6	59.3	54.3	61.9	30.6	28.4
VEQH-16-1			46.4	56.3	50.1	59.1	31.7	29.5
CD at 5%			1.5	1.6	1.0	1.6	NS	NS
CV (%)			3.6	3.4	2.4	3.2	7.7	11.7

Cont…

Density	Nutrient levels	Genotypes	Net returns (Rs./ha)		B : C Ratio		Cob length (cm)	Cob diameter (cm)
			Karimnagar	Vagarai	Karimnagar	Vagarai	Karimnagar	Karimnagar
Normal	RDF	APQH1(QPM+PRO-A)	71596	122290	2.09	3.23	18.7	4.6
		HQPM I (C)	52883	93328	1.81	2.70	18.5	4.3
		APQH 8 (QPM+Pro A)	35635	86475	1.54	2.57	18.0	4.0
		Pusa HM 8 (c)	37660	91660	1.58	2.67	17.1	4.4
		VEQH-16-1	60087	112084	1.92	3.04	18.2	4.5
	150% RDF	APQH1(QPM+PRO-A)	77125	134580	2.12	3.27	18.5	4.5
		HQPM I (C)	52574	105210	1.76	2.78	18.2	4.2
		APQH 8 (QPM+Pro A)	19456	83181	1.28	2.40	17.4	4.1
		Pusa HM 8 (c)	59157	73065	1.86	2.23	17.0	4.1
		VEQH-16-1	64800	94027	1.94	2.59	18.1	4.4
High	RDF	APQH1(QPM+PRO-A)	65440	140453	1.94	3.51	18.5	4.5
		HQPM I (C)	46329	117557	1.66	3.10	18.8	4.5
		APQH 8 (QPM+Pro A)	31262	129337	1.45	3.31	17.2	4.2
		Pusa HM 8 (c)	36240	125107	1.52	3.24	17.4	4.3
		VEQH-16-1	65663	138986	1.94	3.48	17.9	4.5
	150% RDF	APQH1(QPM+PRO-A)	84393	173953	2.19	3.89	19.1	4.4
		HQPM I (C)	52468	139609	1.74	3.32	18.3	4.3
		APQH 8 (QPM+Pro A)	41130	125356	1.58	3.08	17.5	4.0
		Pusa HM 8 (c)	43433	119375	1.61	2.98	17.3	4.2
		VEQH-16-1	62747	139541	1.89	3.32	18.0	4.3
Mean of location			53003.9	117258.7	1.77	3.04	18.0	4.3
Normal			53097	99590	1.79	2.75	18.0	4.3
High			52910	134927	1.75	3.32	18.0	4.3
CD at 5%			NS	12551.2	NS	NS	NS	NS
CV (%)			49.8	9.6	21.23	6.91	6.7	5.3
RDF			50280	115728	1.74	3.08	18.0	4.4
150% RDF			55728	118790	1.80	2.99	17.9	4.3
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			65.0	20.4	27.89	14.17	4.5	6.8
APQH1(QPM+PRO-A)			74638	142819	2.09	3.47	18.7	4.5
HQPM I (C)			51063	113926	1.74	2.97	18.4	4.3
APQH 8 (QPM+Pro A)			31871	106087	1.46	2.84	17.5	4.1
Pusa HM 8 (c)			44123	102302	1.64	2.78	17.2	4.2
VEQH-16-1			63324	121160	1.92	3.11	18.1	4.4
CD at 5%			12742.0	14151.4	0.19	NS	0.9	0.2
CV (%)			28.9	14.5	12.62	9.78	5.7	5.1

Cont…

Density	Nutrient levels	Genotypes	Grain rows/cob	Grains/row	Shelling (%)	Insect damage (%)	Disease scoring (0-5 Scale)
			Karimnagar	Karimnagar	Karimnagar	Vagarai	Vagarai
Normal	RDF	APQH1(QPM+PRO-A)	14.7	34.9	68.0	2.0	2.0
		HQPM I (C)	14.0	33.8	70.0	2.6	1.7
		APQH 8 (QPM+Pro A)	12.4	33.7	67.8	1.6	2.0
		Pusa HM 8 (c)	13.2	31.9	68.2	1.0	3.3
		VEQH-16-1	15.1	34.1	71.8	1.5	2.7
	150% RDF	APQH1(QPM+PRO-A)	14.7	35.9	69.1	1.0	1.7
		HQPM I (C)	13.7	35.4	73.1	3.5	1.3
		APQH 8 (QPM+Pro A)	12.1	33.1	68.3	2.7	2.0
		Pusa HM 8 (c)	13.1	30.9	67.4	2.7	3.3
		VEQH-16-1	15.2	34.1	71.6	0.0	2.7
High	RDF	APQH1(QPM+PRO-A)	13.9	34.5	66.7	0.9	1.7
		HQPM I (C)	14.3	36.1	67.7	0.9	2.0
		APQH 8 (QPM+Pro A)	11.7	32.8	67.1	1.4	1.7
		Pusa HM 8 (c)	13.9	33.3	68.3	2.2	3.0
		VEQH-16-1	15.1	33.8	71.7	2.5	3.0
	150% RDF	APQH1(QPM+PRO-A)	14.1	35.4	71.5	2.2	1.3
		HQPM I (C)	13.9	35.6	68.3	2.3	1.7
		APQH 8 (QPM+Pro A)	11.6	33.7	67.0	1.3	2.0
		Pusa HM 8 (c)	12.8	33.1	67.1	1.4	3.0
		VEQH-16-1	14.5	34.3	71.3	3.6	2.7
Mean of location			13.7	34.0	69.1	1.9	2.2
Normal			13.8	33.8	69.5	1.9	2.3
High			13.6	34.3	68.7	1.9	2.2
CD at 5%			NS	NS	NS	NS	NS
CV (%)			7.9	5.4	2.5	68.3	37.9
RDF			13.8	33.9	68.7	1.7	2.3
150% RDF			13.6	34.2	69.5	2.1	2.2
CD at 5%			NS	NS	NS	NS	NS
CV (%)			8.8	8.4	2.2	77.9	59.0
APQH1(QPM+PRO-A)			14.3	35.2	68.9	1.5	1.7
HQPM I (C)			14.0	35.2	69.8	2.3	1.7
APQH 8 (QPM+Pro A)			12.0	33.3	67.6	1.7	1.9
Pusa HM 8 (c)			13.2	32.3	67.7	1.8	3.2
VEQH-16-1			15.0	34.1	71.6	1.9	2.8
CD at 5%			1.0	1.6	2.6	NS	0.7
CV (%)			8.4	5.5	4.5	76.4	36.8

Table 15: Performance of pre release QPM genotypes in *Kharif* under varying planting densities and nutrient levels in Central Western Zone (CWZ).

Density	Nutrient levels	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)		Plants ('000/ha)	
			Ambikapur	Banswara	Ambikapur	Banswara	Ambikapur	Banswara
Normal	RDF	APQH1(QPM+PRO-A)	5000	3993	11518	6904	65.6	63.1
		HQPM I (C)	6148	2971	14124	4990	65.6	61.1
		IIMRQPMH 1705	6370	4856	14520	8399	64.8	64.2
		Pratap QPM Hybrid 1 (C)	4037	4629	9384	8014	64.4	64.2
		VEQH-16-1	4407	3833	10143	8308	64.4	60.0
	150% RDF	APQH1(QPM+PRO-A)	5889	4249	13523	7538	64.1	65.6
		HQPM I (C)	6296	3450	14378	6065	65.2	58.0
		IIMRQPMH 1705	6741	5207	15254	8832	65.6	56.3
		Pratap QPM Hybrid 1 (C)	4444	5015	10330	8940	65.2	61.7
		VEQH-16-1	5519	4057	12739	6942	65.6	57.8
High	RDF	APQH1(QPM+PRO-A)	5444	4217	12597	7107	81.9	78.1
		HQPM I (C)	6444	3769	14915	6307	80.7	79.2
		IIMRQPMH 1705	6741	5143	15476	8634	82.2	76.7
		Pratap QPM Hybrid 1 (C)	4444	4919	10472	8170	81.5	81.3
		VEQH-16-1	5185	4217	12107	6575	81.1	79.5
	150% RDF	APQH1(QPM+PRO-A)	6148	4440	14141	7664	81.9	77.2
		HQPM I (C)	6519	3993	14971	6868	81.1	70.0
		IIMRQPMH 1705	7630	5558	17357	9312	80.4	80.3
		Pratap QPM Hybrid 1 (C)	4815	5303	11166	9022	81.9	79.7
		VEQH-16-1	5519	4472	12776	5615	81.1	76.9
Mean of location			5687.0	4414.6	13094.5	7510.2	73.2	69.5
Normal			5485	4226	12591	7493	65.0	61.2
High			5889	4603	13598	7527	81.4	77.9
CD at 5%			NS	NS	NS	NS	1.7	8.0
CV (%)			9.4	9.0	9.2	6.2	2.1	10.4
RDF			5422	4255	12526	7341	73.2	70.7
150% RDF			5952	4574	13663	7680	73.2	68.3
CD at 5%			375.6	NS	904.9	NS	NS	NS
CV (%)			9.2	13.1	9.6	26.0	1.4	5.0
APQH1(QPM+PRO-A)			5620	4225	12945	7303	73.3	71.0
HQPM I (C)			6352	3546	14597	6057	73.1	67.1
IIMRQPMH 1705			6870	5191	15652	8794	73.2	69.4
Pratap QPM Hybrid 1 (C)			4435	4967	10338	8536	73.2	71.7
VEQH-16-1			5157	4145	11941	6860	73.1	68.6
CD at 5%			585.6	386.4	1358.7	1012.5	NS	2.9
CV (%)			12.4	10.5	12.5	16.2	2.1	5.1

Cont...

Density	Nutrient levels	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling	
			Ambikapur	Banswara	Ambikapur	Banswara	Ambikapur	Banswara
Normal	RDF	APQH1(QPM+PRO-A)	65.6	63.3	198.6	203.3	48.0	50.7
		HQPM I (C)	65.6	64.7	205.1	186.7	48.3	53.0
		IIMRQPMH 1705	64.8	59.1	209.0	210.0	48.7	48.3
		Pratap QPM Hybrid 1 (C)	64.4	63.9	184.1	195.0	47.0	50.0
		VEQH-16-1	64.4	55.6	191.0	198.3	47.7	48.7
	150% RDF	APQH1(QPM+PRO-A)	64.1	62.2	218.2	210.0	48.3	50.3
		HQPM I (C)	65.2	55.9	227.7	196.7	48.7	52.3
		IIMRQPMH 1705	65.6	61.5	233.9	218.3	48.7	47.3
		Pratap QPM Hybrid 1 (C)	65.2	62.9	203.3	203.3	47.0	49.7
		VEQH-16-1	65.6	55.5	209.5	205.0	47.0	48.3
High	RDF	APQH1(QPM+PRO-A)	81.9	74.8	200.3	205.0	47.3	53.0
		HQPM I (C)	80.7	75.8	209.3	196.7	47.7	54.3
		IIMRQPMH 1705	82.2	78.9	215.9	211.7	48.0	49.7
		Pratap QPM Hybrid 1 (C)	81.5	79.9	190.1	198.3	46.3	50.3
		VEQH-16-1	81.1	76.9	195.4	200.0	47.0	50.7
	150% RDF	APQH1(QPM+PRO-A)	81.9	75.2	223.6	213.3	47.7	51.7
		HQPM I (C)	81.1	66.7	231.2	201.7	48.0	52.3
		IIMRQPMH 1705	80.4	83.3	237.9	221.7	48.0	48.7
		Pratap QPM Hybrid 1 (C)	81.9	80.3	209.6	208.3	46.3	49.7
		VEQH-16-1	81.1	77.3	216.2	206.7	46.3	49.3
Mean of location			73.2	68.7	210.5	204.5	47.6	50.4
Normal			65.0	60.5	208.0	202.7	47.9	49.9
High			81.4	76.9	213.0	206.3	47.3	51.0
CD at 5%			1.7	7.8	NS	NS	0.5	NS
CV (%)			2.1	10.3	4.3	2.8	1.0	2.7
RDF			73.2	69.3	199.9	200.5	47.6	50.9
150% RDF			73.2	68.1	221.1	208.5	47.6	50.0
CD at 5%			NS	NS	4.8	7.5	NS	0.7
CV (%)			1.4	5.7	3.2	5.1	1.6	1.8
APQH1(QPM+PRO-A)			73.3	68.9	210.2	207.9	47.8	51.4
HQPM I (C)			73.1	65.8	218.3	195.4	48.2	53.0
IIMRQPMH 1705			73.2	70.7	224.2	215.4	48.3	48.5
Pratap QPM Hybrid 1 (C)			73.2	71.8	196.8	201.3	46.7	49.9
VEQH-16-1			73.1	66.3	203.0	202.5	47.0	49.3
CD at 5%			NS	3.4	6.3	6.6	0.5	0.5
CV (%)			2.1	6.0	3.6	3.9	1.2	1.1

Cont...

Density	Nutrient levels	Genotypes	Days to 50% Silking		Net returns (Rs./ha)		B:C ratio	
			Ambikapur	Banswara	Ambikapur	Banswara	Ambikapur	Banswara
Normal	RDF	APQH1(QPM+PRO-A)	51.0	53.7	43346	46781	1.38	1.61
		HQPM I (C)	51.3	56.0	60423	27359	1.92	0.94
		IIMRQPMH 1705	51.7	51.3	63456	63169	2.02	2.17
		Pratap QPM Hybrid 1 (C)	50.0	53.0	29151	58859	0.93	2.02
		VEQH-16-1	50.7	51.7	34455	43746	1.10	1.50
	150% RDF	APQH1(QPM+PRO-A)	51.3	53.3	55235	49093	1.69	1.55
		HQPM I (C)	51.7	55.3	61121	33920	1.87	1.07
		IIMRQPMH 1705	51.7	50.3	67400	67302	2.06	2.13
		Pratap QPM Hybrid 1 (C)	50.0	52.7	33963	63660	1.04	2.01
		VEQH-16-1	50.0	51.3	49869	45452	1.52	1.44
High	RDF	APQH1(QPM+PRO-A)	50.3	56.0	50131	50030	1.59	1.66
		HQPM I (C)	50.7	57.3	65127	41533	2.07	1.38
		IIMRQPMH 1705	51.0	52.7	69255	67631	2.20	2.25
		Pratap QPM Hybrid 1 (C)	49.3	53.3	35618	63383	1.13	2.11
		VEQH-16-1	50.0	53.7	46521	50030	1.48	1.66
	150% RDF	APQH1(QPM+PRO-A)	50.7	54.7	59166	51735	1.81	1.59
		HQPM I (C)	51.0	55.3	64647	43238	1.97	1.33
		IIMRQPMH 1705	51.0	51.7	80836	72978	2.47	2.24
		Pratap QPM Hybrid 1 (C)	49.3	52.7	39461	68122	1.20	2.09
		VEQH-16-1	49.3	52.3	49960	52342	1.53	1.60
Mean of location			50.6	53.4	52957.0	53018.1	1.65	1.72
Normal			50.9	52.9	49842	49934	1.55	1.65
High			50.3	54.0	56072	56102	1.75	1.79
CD at 5%			0.5	NS	NS	NS	NS	NS
CV (%)			0.9	2.5	15.0	14.2	14.9	14.7
RDF			50.6	53.9	49748	51252	1.58	1.73
150% RDF			50.6	53.0	56166	54784	1.71	1.70
CD at 5%			NS	0.7	5717.4	NS	NS	NS
CV (%)			1.5	1.7	15.1	20.8	15.0	20.7
APQH1(QPM+PRO-A)			50.8	54.4	51969	49410	1.62	1.60
HQPM I (C)			51.2	56.0	62829	36512	1.96	1.18
IIMRQPMH 1705			51.3	51.5	70237	67770	2.19	2.20
Pratap QPM Hybrid 1 (C)			49.7	52.9	34548	63506	1.08	2.06
VEQH-16-1			50.0	52.3	45201	47892	1.41	1.55
CD at 5%			0.5	0.5	8777.4	7342.4	0.3	0.2
CV (%)			1.2	1.1	19.9	16.7	20.1	17.0

Nutrient	Genotypes	Grain yield (kg/ha)	Stove yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
		Chhindwara						
RDF	APQH1(QPM+PRO-A)	5290	7836	56.1	50.8	132.0	58.2	57.0
	HQPM I (C)	5322	9019	58.5	58.1	129.0	57.7	60.0
	IIMRQPMH 1705	5903	9429	66.1	61.8	134.8	58.9	60.8
	Pratap QPM Hybrid 1 (C)	5225	9085	61.1	61.3	133.5	57.9	59.0
	VEQH-16-1	5401	8057	59.9	60.2	135.0	55.6	58.0
150% RDF	APQH1(QPM+PRO-A)	6060	9681	59.3	58.0	135.5	59.0	58.0
	HQPM I (C)	6733	9975	58.0	64.7	134.0	58.0	59.0
	IIMRQPMH 1705	7040	11958	66.5	66.5	136.9	59.0	59.9
	Pratap QPM Hybrid 1 (C)	6847	10699	59.7	65.4	133.4	58.0	60.0
	VEQH-16-1	6604	9873	62.5	60.0	131.0	56.0	60.0
Location mean		6042.6	9561.1	60.8	60.7	133.5	57.8	59.2
C.D.(5%) AiBj-AiBk		620.0	588.2	5.5	5.1	13.6	4.8	4.6
C.D.(5%) AiBk-AjBk		574.2	816.3	9.3	5.6	14.3	4.7	5.1
F(5%)		NS	S	NS	NS	NS	NS	NS
RDF		5428	8685	60.3	58.4	132.9	57.6	59.0
150% RDF		6657	10437	61.2	62.9	134.2	58.0	59.4
C.D.(5%) Ai-Aj		172.3	690.0	8.6	3.6	8.6	2.4	3.5
C.V.(%) Error A		1.8	4.6	9.0	3.8	4.1	2.6	3.8
F(5%)		S	S	NS	S	NS	NS	NS
APQH1(QPM+PRO-A)		5675	8758	57.7	54.4	133.8	58.6	57.5
HQPM I (C)		6028	9497	58.2	61.4	131.5	57.8	59.5
IIMRQPMH 1705		6472	10694	66.3	64.2	135.9	58.9	60.3
Pratap QPM Hybrid 1 (C)		6036	9892	60.4	63.3	133.5	58.0	59.5
VEQH-16-1		6002	8965	61.2	60.1	133.0	55.8	59.0
C.D.(5%)Bi-Bj		438.4	415.9	3.9	3.6	9.6	3.4	3.2
C.V.(%)ErrorB		5.9	3.6	5.2	4.9	5.9	4.8	4.5
F(5%)		S	S	S	S	NS	NS	NS

Cont...

Nutrient	Genotypes	Net Return (Rs./ha)	BC ratio	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
		Chhindwara					
RDF	APQH1(QPM+PRO-A)	29094	2.62	14.4	14.2	11.8	35.0
	HQPM I (C)	34029	2.63	15.0	14.6	13.8	35.7
	IIMRQPMH 1705	44696	2.92	15.4	15.1	14.1	35.0
	Pratap QPM Hybrid 1 (C)	35204	2.59	14.7	14.8	14.0	36.8
	VEQH-16-1	34344	2.67	14.0	14.4	13.2	34.8
150% RDF	APQH1(QPM+PRO-A)	36665	3.00	15.7	15.3	14.4	38.6
	HQPM I (C)	43976	3.33	16.2	15.8	14.8	39.0
	IIMRQPMH 1705	59337	3.48	17.6	16.2	15.1	39.7
	Pratap QPM Hybrid 1 (C)	47075	3.39	16.7	16.1	15.0	39.1
	VEQH-16-1	41318	3.27	15.9	15.4	14.8	38.2
Location mean		40573.9	3.0	15.6	15.2	14.1	37.2
C.D.(5%) AiBj-AiBk		3423.0	0.3	1.4	1.2	1.3	3.2
C.D.(5%) AiBk-AjBk		4065.8	0.3	1.5	1.1	1.2	4.2
F(5%)		S	NS	NS	NS	NS	NS
RDF		35473	2.69	14.7	14.6	13.4	35.5
150% RDF		45674	3.30	16.4	15.8	14.8	38.9
C.D.(5%) Ai-Aj		3007.2	0.13	1.0	0.4	0.2	3.4
C.V.(%) Error A		4.7	2.7	3.9	1.7	1.0	5.7
F(5%)		S	S	S	S	S	S
APQH1(QPM+PRO-A)		32879	2.81	15.1	14.8	13.1	36.8
HQPM I (C)		39003	2.98	15.6	15.2	14.3	37.4
IIMRQPMH 1705		52017	3.20	16.5	15.6	14.6	37.4
Pratap QPM Hybrid 1 (C)		41140	2.99	15.7	15.4	14.5	38.0
VEQH-16-1		37831	2.97	15.0	14.9	14.0	36.5
C.D.(5%)Bi-Bj		2420.4	0.19	1.0	0.9	0.9	2.3
C.V.(%)ErrorB		4.9	5.1	5.2	4.6	5.4	5.0
F(5%)		S	S	S	NS	S	NS

Table 16: Performance of pre release sweet corn genotypes in *Kharif* under varying planting densities and nutrient levels in North West Plain Zone (NWPZ).

Density	Nutrient levels	Genotypes	Green cob yield (kg/ha)		Green fodder yield (kg/ha)		Plants ('000/ha)		Cobs ('000/ha)	
			Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Ludhiana
Normal	RDF	NUZI 260	15213	13657	20978	25278	65.6	64.4	65.9	60.6
		Misthi (C)	12333	12269	19409	22269	65.0	63.9	65.5	60.6
	150% RDF	NUZI 260	17440	15231	25022	26019	65.8	63.4	66.6	62.0
		Misthi (C)	14275	12500	23511	22130	65.6	63.4	66.2	61.1
High	RDF	NUZI 260	17700	14866	22772	26759	81.6	79.2	81.9	75.0
		Misthi (C)	14122	12685	20111	22824	82.3	78.2	82.8	75.0
	150% RDF	NUZI 260	18705	16065	27389	27731	82.3	79.6	82.8	76.4
		Misthi (C)	15833	13889	24778	23611	81.9	80.1	82.3	76.4
Mean of location			15702.8	13895.3	22996.1	24577.5	73.8	71.5	74.2	68.4
Normal			14815	13414	22230	23924	65.5	63.8	66.0	61.1
High			16590	14376	23762	25231	82.0	79.3	82.4	75.7
CD at 5%			NS	642.4	1140.5	605.8	0.3	7.2	0.3	7.5
CV (%)			17.5	2.6	2.8	1.4	0.3	5.7	0.3	6.2
RDF			14842	13369	20817	24282	73.6	71.4	74.0	67.8
150% RDF			16563	14421	25175	24873	73.9	71.6	74.5	69.0
CD at 5%			659.5	NS	1309.2	NS	NS	NS	NS	NS
CV (%)			3.7	11.6	5.0	15.0	1.1	2.3	0.5	1.9
NUZI 260			17265	14955	24040	26447	73.8	71.6	74.3	68.5
Misthi (C)			14141	12836	21952	22708	73.7	71.4	74.2	68.3
CD at 5%			1675.6	944.3	1832.8	1515.0	NS	NS	NS	NS
CV (%)			11.3	7.2	8.5	6.5	1.1	3.2	1.0	4.1

Density	Nutrient levels	Genotypes	Plant height (cm)		Days to 50% tasseling		Days to 50% silking	
			Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Ludhiana
Normal	RDF	NUZI 260	216.0	217.0	50.0	53.3	52.0	55.7
		Misthi (C)	184.3	189.0	53.3	53.0	55.3	55.3
	150% RDF	NUZI 260	226.7	218.3	49.3	53.7	51.3	55.7
		Misthi (C)	191.7	190.7	52.3	52.7	54.3	54.7
High	RDF	NUZI 260	225.0	221.0	48.7	54.7	50.7	57.7
		Misthi (C)	195.0	196.3	52.3	54.3	54.3	57.3
	150% RDF	NUZI 260	230.0	225.0	47.3	54.3	49.3	56.7
		Misthi (C)	202.3	203.3	51.7	54.0	53.7	56.3
Mean of location			208.9	207.6	50.6	53.8	52.6	56.2
Norma;			204.7	203.8	51.3	53.2	53.3	55.3
High			213.1	211.4	50.0	54.3	52.0	57.0
CD at 5%			NS	NS	1.2	0.7	1.2	1.0
CV (%)			5.5	3.2	1.4	0.8	1.3	1.0
RDF			205.1	205.8	51.1	53.8	53.1	56.5
150% RDF			212.7	209.3	50.2	53.7	52.2	55.8
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			4.5	12.1	1.9	2.6	1.8	2.5
NUZI 260			224.4	220.3	48.8	54.0	50.8	56.4
Misthi (C)			193.3	194.8	52.4	53.5	54.4	55.9
CD at 5%			5.2	17.9	0.6	NS	0.6	NS
CV (%)			2.6	9.2	1.2	2.1	1.2	3.0

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Density	Nutrient levels	Genotypes	Net returns (Rs./ha)		B:C ratio		TSS (%)	Barren plants ('000/ha)
			Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Ludhiana
Normal	RDF	NUZI 260	113735	69115	3.09	1.60	13.7	3.2
		Misthi (C)	85368	57170	2.58	1.32	13.5	2.8
	150% RDF	NUZI 260	132235	75813	3.27	1.62	12.5	1.4
		Misthi (C)	101065	54758	2.75	1.17	13.4	2.3
High	RDF	NUZI 260	138230	79971	3.52	1.93	13.3	3.7
		Misthi (C)	102989	62165	2.90	1.50	13.3	2.8
	150% RDF	NUZI 260	144701	84697	3.48	1.88	12.3	3.2
		Misthi (C)	116410	66697	3.01	1.48	12.3	2.8
Mean of location			116841.7	68798.1	3.08	1.57	13.1	2.8
Norma;			108101	64214	2.92	1.43	13.3	2.4
High			125583	73382	3.23	1.70	12.8	3.1
CD at 5%			NS	4471.0	NS	0.1	0.4	NS
CV (%)			23.2	3.7	15.0	3.5	1.8	30.6
RDF			110080	67105	3.02	1.59	13.5	3.1
150% RDF			123603	70491	3.13	1.54	12.6	2.4
CD at 5%			6495.7	NS	NS	NS	0.2	NS
CV (%)			4.9	20.5	3.4	20.4	1.6	22.8
NUZI 260			132225	77399	3.34	1.76	13.0	2.9
Misthi (C)			101458	60197	2.81	1.37	13.2	2.7
CD at 5%			16504.4	7375.4	0.3	0.2	NS	NS
CV (%)			15.0	11.4	10.0	11.8	4.5	36.8

Table17: Performance of pre release sweet corn genotypes in *Kharif*under varying planting densities and nutrient levels in North East Plain Zone (NEPZ).

Density	Nutrient levels	Genotype	Green cobs yield (kg/ha)		Green Fodder yield (kg/ha)		Plants ('000/ha)		Cobs ('000/ha)	
			Dholi	Ranchi	Dholi	Ranchi	Dholi	Ranchi	Dholi	Ranchi
Normal	RDF	NUZI 260	12670	17300	19360	21907	58.0	63.0	56.7	60.7
		VL SWEET CORN (C)	10330	14422	16030	12576	56.0	64.4	54.4	60.7
	150% RDF	NUZI 260	10830	19467	16760	24820	58.0	63.7	57.8	63.7
		VL SWEET CORN (C)	9050	13294	12720	16050	56.0	63.3	55.6	62.2
High	RDF	NUZI 260	13220	20322	20420	24436	74.0	81.5	73.7	77.4
		VL SWEET CORN (C)	10710	15043	16810	17724	74.0	81.5	70.5	78.1
	150% RDF	NUZI 260	10950	20211	17500	27889	76.0	80.4	71.6	78.9
		VL SWEET CORN (C)	6800	15978	15970	20189	77.0	82.6	74.8	80.4
Mean of location			10570	17004.7	16940	20699.0	66.1	72.5	64.4	70.3
Normal			10720	16121	16220	18839	57.0	63.6	56.1	61.9
High			10420	17889	17670	22559	75.3	81.5	72.7	78.7
CD at 5%			58	NS	208	1647.6	2.27	5.0	2.05	4.0
CV (%)			0.31	6.6	0.70	4.5	1.95	3.9	1.81	3.3
RDF			11730	16772	18150	19161	65.5	72.6	63.8	69.3
150% RDF			9410	17238	15740	22237	66.8	72.5	65.0	71.3
CD at 5%			175	NS	504	1065.0	0.10	NS	0.06	NS
CV (%)			1.46	5.3	2.62	4.5	0.13	3.2	0.09	4.9
NUZI 260			11920	19325	18510	24763	66.5	72.1	65.0	70.2
VL SWEET CORN (C)			9220	14684	15380	16635	65.8	73.0	63.8	70.4
CD at 5%			120	1331.6	409	1769.1	0.05	NS	0.09	NS
CV (%)			1.21	8.3	2.57	9.1	0.08	6.2	0.15	6.0

Density	Nutrient levels	Genotype	Plant height (cm)		Days of 50% tasseling		Days of 50% silking		Net return (Rs/ha)	B:C ratio
			Dholi	Ranchi	Dholi	Ranchi	Dholi	Ranchi	Ranchi	Ranchi
Normal	RDF	NUZI 260	129.4	221.7	50.0	47.0	53.3	51.3	213363	4.22
		VL SWEET CORN (C)	110.8	159.9	50.7	46.3	53.3	51.0	168331	3.33
	150% RDF	NUZI 260	111.4	225.7	50.7	46.3	54.3	50.3	242816	4.48
		VL SWEET CORN (C)	105.7	165.5	49.7	44.3	52.7	48.7	148478	2.74
High	RDF	NUZI 260	130.6	230.1	49.0	47.3	52.3	52.0	255077	4.67
		VL SWEET CORN (C)	115.4	155.4	51.0	47.3	54.7	52.3	174552	3.19
	150% RDF	NUZI 260	116.2	237.5	49.3	46.7	52.7	51.0	250471	4.30
		VL SWEET CORN (C)	106.7	170.4	49.7	46.3	53.3	51.0	185431	3.18
Mean of location			115.8	195.8	50.0	46.5	53.3	51.0	204814.9	3.77
Normal			114.3	193.2	50.3	46.0	53.4	50.3	193247	3.70
High			117.2	198.3	49.8	46.9	53.3	51.6	216383	3.84
CD at 5%			0.36	NS	0.07	NS	0.02	NS	NS	NS
CV (%)			0.18	8.2	0.07	4.5	0.02	5.2	8.3	7.6
RDF			121.6	191.8	50.2	47.0	53.4	51.7	202831	3.85
150% RDF			110.0	199.8	49.9	45.9	53.3	50.3	206799	3.68
CD at 5%			0.65	NS	0.02	NS	0.02	NS	NS	NS
CV (%)			0.50	4.2	0.04	4.3	0.04	3.6	6.6	6.9
NUZI 260			121.9	228.8	49.8	46.8	53.2	51.2	240432	4.42
VL SWEET CORN (C)			109.7	162.8	50.3	46.1	53.5	50.8	169198	3.11
CD at 5%			0.44	11.4	0.04	NS	0.05	NS	20047.6	0.4
CV (%)			0.40	6.2	0.08	2.4	0.10	2.4	10.4	10.6

Table18: Performance of pre release sweet corn genotypes in *Kharif* under varying planting densities and nutrient levels in Peninsular Zone (PZ).

Density	Nutrient levels	Genotypes	Green Cob yield with husk (kg/ha)		Green Cob yield without husk (kg/ha)	Green fodder yield (kg/ha)	
			Coimbatore	Dharwad	Dharwad	Coimbatore	Dharwad
Normal	RDF	NUZI 260	17907	8397	4987	22251	9681
		Misthi (C)	16738	7740	4601	22808	9893
	150% RDF	NUZI 260	23875	8580	5000	22758	9924
		Misthi (C)	22467	7939	4640	23965	9604
High	RDF	NUZI 260	22607	7597	4717	26774	8571
		Misthi (C)	21737	8135	5143	28486	8518
	150% RDF	NUZI 260	23823	8023	4647	27807	8740
		Misthi (C)	22376	8390	5037	29653	8533
Mean of location			21441.2	8100.2	4846.4	25563.0	9183.1
Normal			20247	8164	4807	22946	9776
High			22636	8036	4886	28180	8591
CD at 5%			1061.9	NS	NS	NS	363.7
CV (%)			2.8	4.3	1.5	18.6	2.3
RDF			19747	7967	4862	25080	9166
150% RDF			23135	8233	4831	26046	9200
CD at 5%			NS	NS	NS	NS	NS
CV (%)			17.0	8.0	1.9	5.5	2.0
NUZI 260			22053	8149	4838	24898	9229
Misthi (C)			20829	8051	4855	26228	9137
CD at 5%			NS	NS	NS	NS	NS
CV (%)			9.8	5.0	1.9	8.1	2.6

Density	Nutrient levels	Genotypes	Plants ('000/ha)		Cobs ('000/ha)		Plant height (cm)	
			Coimbatore	Dharwad	Coimbatore	Dharwad	Coimbatore	Dharwad
Normal	RDF	NUZI 260	79.2	79.3	75.0	78.9	194.7	163.5
		Misthi (C)	81.0	82.0	76.9	81.0	179.7	173.2
	150% RDF	NUZI 260	78.7	80.6	73.1	80.3	191.3	180.2
		Misthi (C)	78.7	79.5	73.6	78.4	184.5	170.4
High	RDF	NUZI 260	105.6	64.7	100.0	64.5	175.7	167.1
		Misthi (C)	105.5	64.2	99.5	63.8	188.4	167.8
	150% RDF	NUZI 260	104.6	64.0	99.5	63.9	190.7	173.6
		Misthi (C)	106.9	63.8	100.9	63.6	190.9	175.1
Mean of location			92.5	72.3	87.3	71.8	187.0	171.4
Normal			79.4	80.4	74.7	79.7	187.6	171.8
High			105.7	64.2	100.0	64.0	186.4	170.9
CD at 5%			7.7	2.6	6.6	2.3	NS	NS
CV (%)			4.7	2.1	4.3	1.8	6.9	6.8
RDF			92.8	72.6	87.9	72.0	184.7	167.9
150% RDF			92.3	72.0	86.8	71.6	189.4	174.8
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			2.7	1.3	3.4	1.6	7.1	6.9
NUZI 260			92.0	72.2	86.9	71.9	188.1	171.1
Misthi (C)			93.1	72.4	87.7	71.7	185.9	171.6
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			4.1	1.3	3.8	0.7	4.1	3.2

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Density	Nutrient levels	Genotypes	Days to 50% tasseling		Days to 50% silking		TSS (%)	
			Coimbatore	Dharwad	Coimbatore	Dharwad	Coimbatore	Dharwad
Normal	RDF	NUZI 260	48.7	46.0	51.0	52.0	17.8	13.3
		Misthi (C)	50.0	45.3	53.0	51.7	16.2	13.3
	150% RDF	NUZI 260	48.7	45.3	51.7	51.7	18.1	12.7
		Misthi (C)	50.3	45.0	53.0	50.7	17.2	12.7
High	RDF	NUZI 260	47.7	43.3	50.3	49.7	18.9	13.6
		Misthi (C)	49.3	44.7	52.0	50.7	17.5	13.7
	150% RDF	NUZI 260	48.3	44.0	51.0	50.0	15.8	12.9
		Misthi (C)	49.7	45.7	52.3	51.3	20.2	12.9
Mean of location			49.1	44.9	51.8	51.0	17.7	13.1
Normal			49.4	45.4	52.2	51.5	17.3	13.0
High			48.8	44.4	51.4	50.4	18.1	13.3
CD at 5%			NS	NS	NS	NS	0.7	NS
CV (%)			7.1	4.2	7.2	3.8	2.2	2.6
RDF			48.9	44.8	51.6	51.0	17.6	13.4
150% RDF			49.3	45.0	52.0	50.9	17.8	12.8
CD at 5%			NS	NS	NS	NS	NS	0.3
CV (%)			6.7	3.5	6.0	4.4	10.0	2.2
NUZI 260			48.3	44.7	51.0	50.8	17.6	13.1
Misthi (C)			49.8	45.2	52.6	51.1	17.8	13.1
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			8.7	2.5	8.2	1.8	12.6	2.1

Density	Nutrient levels	Genotypes	Net return (Rs./ha)		B:C ratio		TLB (score)
			Coimbatore	Dharwad	Coimbatore	Dharwad	Dharwad
Normal	RDF	NUZI 260	79043	174766	2.56	4.82	7.0
		Misthi (C)	72588	159866	2.43	4.59	3.5
	150% RDF	NUZI 260	112810	178917	3.12	4.85	7.5
		Misthi (C)	105565	165047	2.98	4.75	5.0
High	RDF	NUZI 260	109670	156845	3.08	4.69	7.0
		Misthi (C)	106158	167253	3.01	4.68	4.0
	150% RDF	NUZI 260	115443	165397	3.09	4.69	7.5
		Misthi (C)	108611	172937	2.97	4.74	4.5
Mean of location			101236.3	167628.5	2.91	4.73	5.8
Normal			92502	169649	2.77	4.75	5.8
High			109971	165608	3.04	4.70	5.8
CD at 5%			14254.9	NS	NS	NS	NS
CV (%)			8.0	5.1	5.20	3.9	17.4
RDF			91865	164682	2.77	4.69	5.4
150% RDF			110607	170575	3.04	4.76	6.1
CD at 5%			NS	NS	NS	NS	NS
CV (%)			21.6	9.7	14.15	7.6	8.7
NUZI 260			104242	168981	2.96	4.76	7.3
Misthi (C)			98231	166276	2.85	4.69	4.3
CD at 5%			NS	NS	NS	NS	1.5
CV (%)			12.7	6.0	8.47	4.7	18.4

Table19: Performance of pre release sweet corn genotypes in *Kharif* under varying planting densities and nutrient levels in Central Western Zone (CWZ).

Density	Nutrient levels	Genotypes	Green Cob yield (kg/ha)			Green fodder yield (kg/ha)		
			Ambikapur	Chhindwara	Udaipur	Ambikapur	Chhindwara	Udaipur
Normal	RDF	NUZI 260	15259	10539	8447	20406	11449	21317
		VL SWEET CORN (C)	11963	9908	7033	15129	11174	17039
	150% RDF	NUZI 260	18889	13026	8653	24568	17023	21559
		VL SWEET CORN (C)	16259	11259	7247	20808	15987	16985
High	RDF	NUZI 260	18333	12897	9630	22925	19278	24440
		VL SWEET CORN (C)	15444	11671	8223	19496	18592	19317
	150% RDF	NUZI 260	20222	12208	10023	25554	19875	24584
		VL SWEET CORN (C)	18407	13350	8423	23337	19358	19343
Mean of location			16847.2	11857.3	8460.0	21528.1	16592.1	20572.9
Normal			15593	11183	7845	20228	13908	19225
High			18102	12531	9075	22828	19276	21921
CD at 5%			1885.1	791.2	NS	2195.7	2308.9	NS
CV (%)			6.4	3.8	10.5	5.8	7.9	9.8
RDF			15250	11254	8333	19489	15123	20528
150% RDF			18444	12461	8587	23567	18061	20618
CD at 5%			830.3	496.6	190.1	925.7	2199.7	NS
CV (%)			4.3	3.7	2.0	3.8	11.7	3.0
NUZI 260			18176	12167	9188	23363	16906	22975
VL SWEET CORN (C)			15519	11547	7732	19693	16278	18171
CD at 5%			1203.5	575.9	169.5	1457.9	525.3	578.4
CV (%)			7.6	5.2	2.1	7.2	3.4	3.0

Density	Nutrient levels	Genotypes	Plants ('000/ha)			Cobs ('000/ha)	
			Ambikapur	Chhindwara	Udaipur	Ambikapur	Chhindwara
Normal	RDF	NUZI 260	81.1	62.5	53.0	81.5	62.6
		VL SWEET CORN (C)	81.9	59.6	53.0	81.9	56.8
	150% RDF	NUZI 260	81.9	66.1	53.0	82.6	65.3
		VL SWEET CORN (C)	81.1	64.7	53.0	81.9	62.3
High	RDF	NUZI 260	106.7	81.1	64.4	106.7	79.6
		VL SWEET CORN (C)	107.4	80.2	64.2	106.3	71.5
	150% RDF	NUZI 260	107.4	84.1	64.2	107.4	82.5
		VL SWEET CORN (C)	107.0	82.9	63.2	106.3	80.6
Mean of location			94.3	72.6	58.5	94.3	70.1
Normal			81.5	63.2	53.0	81.9	61.7
High			107.1	82.0	64.0	106.7	78.5
CD at 5%			1.7	2.3	1.7	3.0	4.9
CV (%)			1.0	1.8	1.6	1.8	4.0
RDF			94.3	70.8	58.7	94.1	67.6
150% RDF			94.4	74.4	58.4	94.5	72.6
CD at 5%			NS	1.8	NS	NS	3.2
CV (%)			2.1	2.2	0.7	1.7	4.0
NUZI 260			94.3	73.4	58.7	94.5	72.5
VL SWEET CORN (C)			94.4	71.8	58.4	94.1	67.8
CD at 5%			NS	1.3	NS	NS	3.6
CV (%)			2.3	1.8	0.6	1.5	5.4

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Density	Nutrient levels	Genotypes	Plant height (cm)			TSS (%)	FAW attack at 30 DAS on % plants	FAW attack at 45 DAS on % plants
			Ambikapur	Chhindwara	Udaipur	Udaipur	Udaipur	Udaipur
Normal	RDF	NUZI 260	184.3	183.5	232.2	16.5	48.3	58.4
		VL SWEET CORN (C)	175.5	180.3	192.4	15.4	49.3	59.9
	150% RDF	NUZI 260	220.6	185.0	234.5	16.5	52.3	62.7
		VL SWEET CORN (C)	192.8	182.5	194.9	15.5	49.3	62.2
High	RDF	NUZI 260	193.0	198.0	234.4	16.6	50.0	62.3
		VL SWEET CORN (C)	176.3	190.0	193.7	15.5	48.0	62.1
	150% RDF	NUZI 260	226.6	207.5	236.3	16.5	50.0	62.1
		VL SWEET CORN (C)	196.6	200.0	195.8	15.5	50.0	60.7
Mean of location			195.7	190.8	214.3	16.0	49.7	61.3
Normal			193.3	182.8	213.5	16.0	49.8	60.8
High			198.1	198.9	215.1	16.1	49.5	61.8
CD at 5%			NS	5.0	NS	NS	NS	NS
CV (%)			5.0	1.5	8.7	4.8	14.0	12.0
RDF			182.3	187.9	213.2	16.0	48.9	60.7
150% RDF			209.2	193.8	215.4	16.0	50.4	61.9
CD at 5%			13.6	NS	NS	NS	NS	NS
CV (%)			6.1	7.5	3.0	1.7	5.1	6.3
NUZI 260			206.1	193.5	234.4	16.5	50.2	61.4
VL SWEET CORN (C)			185.3	188.2	194.2	15.5	49.2	61.2
CD at 5%			13.0	NS	5.9	0.3	NS	NS
CV (%)			7.0	4.2	2.9	1.6	7.2	6.3

Density	Nutrient levels	Genotypes	Days to 50% tasseling			Days to 50% Silking		
			Ambikapur	Chhindwara	Udaipur	Ambikapur	Chhindwara	Udaipur
Normal	RDF	NUZI 260	46.0	48.5	42.7	48.0	49.3	45.3
		VL SWEET CORN (C)	45.0	49.3	44.0	47.0	48.5	47.0
	150% RDF	NUZI 260	46.7	50.5	42.0	48.7	48.7	45.0
		VL SWEET CORN (C)	46.3	50.3	44.0	48.3	48.0	47.0
High	RDF	NUZI 260	46.7	49.0	42.0	48.7	50.3	45.0
		VL SWEET CORN (C)	46.0	47.8	43.3	48.0	49.3	47.0
	150% RDF	NUZI 260	47.3	48.5	42.7	49.3	49.0	45.7
		VL SWEET CORN (C)	46.7	49.0	44.0	48.7	49.4	47.7
Mean of location			46.3	49.1	43.1	48.3	49.1	46.2
Normal			46.0	49.7	43.2	48.0	48.6	46.1
High			46.7	48.6	43.0	48.7	49.5	46.3
CD at 5%			0.4	NS	NS	0.4	NS	NS
CV (%)			0.4	5.0	8.1	0.4	5.1	7.5
RDF			45.9	48.7	43.0	47.9	49.4	46.1
150% RDF			46.8	49.6	43.2	48.8	48.8	46.3
CD at 5%			0.7	NS	NS	0.7	NS	NS
CV (%)			1.4	2.3	4.8	1.3	3.2	3.4
NUZI 260			46.7	49.1	42.3	48.7	49.3	45.3
VL SWEET CORN (C)			46.0	49.1	43.8	48.0	48.8	47.2
CD at 5%			0.6	NS	NS	0.6	NS	1.4
CV (%)			1.3	2.9	4.0	1.3	2.8	3.3

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Density	Nutrient levels	Genotypes	Net returns (Rs. /ha)			B:C ratio		
			Ambikapur	Chhindwara	Udaipur	Ambikapur	Chhindwara	Udaipur
Normal	RDF	NUZI 260	126296	66833	268132	3.46	2.42	9.61
		VL SWEET CORN (C)	90694	57184	217174	2.48	2.27	7.78
	150% RDF	NUZI 260	163873	102208	272856	4.39	2.99	9.14
		VL SWEET CORN (C)	135697	74605	221508	3.64	2.58	7.42
High	RDF	NUZI 260	158296	91888	309377	4.34	2.96	10.89
		VL SWEET CORN (C)	127693	78997	256930	3.50	2.68	9.05
	150% RDF	NUZI 260	177699	85245	319505	4.76	2.80	10.52
		VL SWEET CORN (C)	158442	116615	261025	4.25	3.06	8.60
Mean of location			142336.2	84196.9	265813.4	3.85	2.72	9.13
Normal			129140	75208	244917	3.49	2.56	8.49
High			155533	93186	286709	4.21	2.87	9.76
CD at 5%			19913.3	8845.6	NS	0.5	0.18	NS
CV (%)			8.0	6.0	11.6	8.0	3.8	11.6
RDF			125745	73725	262903	3.45	2.58	9.33
150% RDF			158928	94668	268723	4.26	2.86	8.92
CD at 5%			8756.4	5039.8	NS	0.2	0.11	0.2
CV (%)			5.4	5.3	2.2	5.5	3.7	2.2
NUZI 260			156541	86544	292467	4.24	2.79	10.04
VL SWEET CORN (C)			128132	81850	239159	3.47	2.65	8.21
CD at 5%			12746.1	4220.4	4285.6	0.4	0.13	0.1
CV (%)			9.5	5.3	1.7	9.5	5.2	1.7

Table 20: Performance of pre release babycorn genotypes in *Kharif* under varying planting densities and nutrient levels Northern Hill Zone (NHZ).

Density	Nutrient levels	Genotype	Babycorn yield with husk (kg/ha)		Babycorn yield without husk (kg/ha)		Green fodder Yield (kg/ha)	
			Almora	Imphal	Almora	Imphal	Almora	Imphal
Normal	RDF	CMVL BC2 CHECK	12897	12211	2210	3108	26308	32415
		AH7043	11363	5808	2990	2557	24537	20117
		AH5021	4314	4955	414	1588	12130	19800
		HM 4 (Check)	10005	9768	1665	3003	30531	26178
	150% RDF	CMVL BC2 CHECK	15696	10890	2438	3652	32092	31350
		AH7043	12425	6298	3088	2193	26538	22103
		AH5021	8136	5693	805	1488	19815	19155
		HM 4 (Check)	11078	9782	1864	2725	33958	24460
High	RDF	CMVL BC2 CHECK	16874	12763	2691	3936	32112	34707
		AH7043	12237	5988	3409	2321	29103	22452
		AH5021	8513	6090	889	2060	22037	21773
		HM 4 (Check)	10502	8850	2053	3268	36830	31828
	150% RDF	CMVL BC2 CHECK	18031	11112	2898	3143	39722	32655
		AH7043	15157	6416	4093	2883	39925	23200
		AH5021	9581	6470	894	2041	23889	20417
		HM 4 (Check)	13036	10364	2429	3140	37485	29068
Mean of location			11865.3	8341.2	2176.9	2694.2	29188.3	25729.9
Normal			10739	8176	1934	2539	25739	24447
High			12991	8507	2420	2849	32638	27013
CD at 5%			1158.5	NS	359.0	NS	3258.4	1721.6
CV (%)			7.9	10.5	13.3	14.7	9.0	5.4
RDF			10838	8304	2040	2730	26698	26159
150% RDF			12892	8378	2314	2658	31678	25301
CD at 5%			1992.6	NS	240.9	NS	3251.3	715.3
CV (%)			21.0	12.0	13.8	18.4	13.9	3.5
CMVL BC2 CHECK			15874	11744	2559	3460	32559	32782
AH7043			12795	6128	3395	2488	30026	21968
AH5021			7636	5802	751	1794	19468	20286
HM 4 (Check)			11156	9691	2003	3034	34701	27884
CD at 5%			1096.8	802.2	235.0	350.2	3178.2	1267.6
CV (%)			11.0	11.4	12.8	15.4	12.9	5.8

Density	Nutrient levels	Genotype	Plants ('000/ha)		Plant height (cm)		Days to first picking	
			Almora	Imphal	Almora	Imphal	Almora	Imphal
Normal	RDF	CMVL BC2 CHECK	133.3	91.2	176.5	197.5	51.3	51.0
		AH7043	133.3	89.8	160.9	173.8	53.3	54.0
		AH5021	37.0	86.0	206.8	168.3	57.7	56.7
		HM 4 (Check)	133.3	90.2	178.7	187.9	57.3	52.7
	150% RDF	CMVL BC2 CHECK	133.3	92.3	195.9	218.8	50.7	51.3
		AH7043	133.3	88.2	167.5	184.3	52.7	53.7
		AH5021	58.3	86.1	221.8	189.2	55.0	55.7
		HM 4 (Check)	133.3	91.0	189.8	215.0	55.7	52.0
High	RDF	CMVL BC2 CHECK	166.7	109.6	186.7	209.7	50.7	51.3
		AH7043	166.7	97.1	172.7	183.5	52.7	55.3

Density	Nutrient levels	Genotype	Plants ('000/ha)		Plant height (cm)		Days to first picking	
			Almora	Imphal	Almora	Imphal	Almora	Imphal
		AH5021	74.1	92.7	217.3	188.0	54.7	57.3
		HM 4 (Check)	166.7	106.2	188.3	196.7	55.7	52.0
	150% RDF	CMVL BC2 CHECK	166.7	111.3	198.1	211.8	50.0	51.3
		AH7043	166.7	101.9	177.2	191.3	52.0	53.7
		AH5021	61.1	94.6	224.9	192.4	54.7	55.3
		HM 4 (Check)	166.7	108.4	197.7	196.1	54.7	51.7
Mean of location			126.9	96.0	191.3	194.0	53.7	53.4
Normal			111.9	89.4	187.2	191.9	54.2	53.4
High			141.9	102.7	195.4	196.2	53.1	53.5
CD at 5%			4.4	2.0	NS	NS	NS	NS
CV (%)			2.8	1.7	5.3	7.1	2.2	1.7
RDF			126.4	95.4	186.0	188.2	54.2	53.8
150% RDF			127.4	96.7	196.6	199.9	53.2	53.1
CD at 5%			NS	NS	2.6	NS	NS	NS
CV (%)			4.8	3.2	1.7	9.7	3.0	2.9
CMVL BC2 CHECK			150.0	101.1	189.3	209.5	50.7	51.3
AH7043			150.0	94.3	169.6	183.2	52.7	54.2
AH5021			57.6	89.9	217.7	184.5	55.5	56.3
HM 4 (Check)			150.0	98.9	188.6	198.9	55.8	52.1
CD at 5%			4.6	1.5	7.0	16.6	0.9	1.1
CV (%)			4.3	1.9	4.3	10.2	2.0	2.5

Density	Nutrient levels	Genotype	No. of pickings		Net returns (Rs. /ha)		B:C ratio	
			Almora	Imphal	Almora	Imphal	Almora	Imphal
Normal	RDF	CMVL BC2 CHECK	13.0	6.33	94690	211546	1.16	4.04
		AH7043	11.7	5.67	140504	155114	2.01	3.23
		AH5021	8.3	4.00	17707	77331	0.52	2.11
		HM 4 (Check)	10.0	5.33	94493	196909	1.45	3.83
	150% RDF	CMVL BC2 CHECK	12.3	6.00	111314	248689	1.23	4.32
		AH7043	12.7	5.33	145492	122723	1.93	2.64
		AH5021	9.7	4.33	39817	63428	0.78	1.85
		HM 4 (Check)	10.7	5.67	106013	167666	1.47	3.24
High	RDF	CMVL BC2 CHECK	13.7	6.00	109228	275035	1.03	4.69
		AH7043	12.3	4.67	163325	133580	2.04	2.79
		AH5021	9.7	4.33	48503	112021	0.93	2.50
		HM 4 (Check)	10.3	5.33	117249	218690	1.51	3.93
	150% RDF	CMVL BC2 CHECK	13.3	6.00	136492	204312	1.27	3.56
		AH7043	12.7	5.00	210958	174057	2.27	3.18
		AH5021	10.7	5.00	50547	103887	0.93	2.30
		HM 4 (Check)	11.0	5.33	120049	200458	1.26	3.51
Mean of location			11.4	5.27	106648.8	166590.2	1.36	3.23
Normal			11.0	5.33	93754	155426	1.32	3.16
High			11.7	5.21	119544	177755	1.41	3.31
CD at 5%			NS	NS	18861.3	NS	NS	NS
CV (%)			7.7	9.5	14.2	19.6	9.8	13.3
RDF			11.1	5.21	98212	172528	1.33	3.39

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150% RDF	11.6	5.33	115085	160652	1.39	3.08
CD at 5%	NS	NS	16231.7	NS	NS	NS
CV (%)	8.4	6.7	19.0	24.2	15.3	16.8
CMVL BC2 CHECK	13.1	6.08	112931	234895	1.17	4.15
AH7043	12.3	5.17	165070	146368	2.06	2.96
AH5021	9.6	4.42	39144	89167	0.79	2.19
HM 4 (Check)	10.5	5.42	109451	195931	1.42	3.63
CD at 5%	0.6	0.4	14144.3	28735.9	0.2	0.4
CV (%)	5.9	9.1	15.7	20.5	15.8	14.0

Table 21: Performance of pre release baby corn genotypes in *Kharif* under varying planting densities and nutrient levels in North West Plain Zone (NWPZ).

Density	Nutrient levels	Genotypes	Baby corn yield with husk (kg/ha)		Baby corn yield without husk (kg/ha)		Fodder yield (kg/ha)		Baby corn ('000/ha)
			Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Ludhiana	Ludhiana
Normal	RDF	PAC321	6827	7667	2844	1615	34978	31192	122.1
		VL Baby corn 2 (C)	7879	9219	3139	2292	31242	28758	125.0
	150% RDF	PAC321	7600	10302	3167	1750	38355	34946	120.8
		VL Baby corn 2 (C)	8576	11788	3417	2459	34178	28925	122.9
High	RDF	PAC321	7440	9490	3100	2163	36439	36972	154.9
		VL Baby corn 2 (C)	9555	10813	3807	2586	33111	31292	158.3
	150% RDF	PAC321	8880	11792	3700	2604	39389	38417	159.0
		VL Baby corn 2 (C)	9873	13240	3933	2824	36778	33041	159.0
Mean of location			8328.5	10538.8	3388.3	2286.5	35558.6	32942.9	140.3
Normal			7720	9744	3142	2029	34688	30955	122.7
High			8937	11334	3635	2544	36429	34931	157.8
CD at 5%			NS	NS	NS	NS	NS	NS	4.8
CV (%)			17.6	11.9	17.6	13.5	22.5	17.2	1.9
RDF			7925	9297	3222	2164	33942	32054	140.1
150% RDF			8732	11780	3554	2409	37175	33832	140.5
CD at 5%			NS	2131.0	NS	169.3	NS	NS	NS
CV (%)			8.8	17.8	8.7	6.5	9.0	14.7	1.9
PAC321			7687	9813	3203	2033	37290	35382	139.2
VL Baby corn 2 (C)			8970	11265	3574	2540	33827	30504	141.3
CD at 5%			1021.4	1262.9	NS	167.7	NS	2649.8	NS
CV (%)			13.0	12.7	13.0	7.8	17.7	8.5	2.1

Treatment	Pantnagar						
	Baby corn yield with husk (kg/ha)	Baby corn yield without husk (kg/ha)	Fodder yield (kg/ha)	Plant population (000/ha)	Plant height (cm)	Net Return (Rs./ha)	B:C ratio
Planting density							
Normal (1,11,111 plants/ha)	5,518	1,357	14,969	109.0	117.0	67557	1.64
High (1,38,888 plants/ha)	6,006	1,543	15,222	135.6	119.2	80258	1.85
CD (5%)	NS	86	NS	5.9	NS	6927	0.18
CV (%)	4.8	3.3	3.6	2.7	4.1	5.3	5.7
Nutrient level							
RDF (150:60:40)	5,249	1,347	14,625	121.4	116.8	67297	1.66
150% RDF	6,274	1,553	15,566	123.2	119.4	80517	1.84
CD (5%)	291	61	NS	NS	NS	4882	0.12
CV (%)	4.5	3.7	9.7	1.6	2.6	5.9	6.0
Genotypes							
PAC321	6,247	1,525	13,607	122.2	109.5	79909	1.89
VL Baby corn 2 (C)	5,277	1,375	16,584	122.5	126.7	67905	1.61
CD (5%)	321	75	1,356	NS	4.2	5975	0.14
CV (%)	5.9	5.5	9.5	2.7	3.8	8.6	8.5

*Market price Rs. 80/kg baby corn

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Density	Nutrient levels	Genotypes	Plants ('000/ha)		Plant height (cm)		Days to first picking	No. of pickings	Net returns (Rs. /ha)	B:C ratio	Barren plants ('000/ ha)
			Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Karnal	Karnal	Karnal	Ludhiana
Normal	RDF	PAC321	81.9	124.6	199.0	198.0	61.0	3.0	131048	3.89	2.5
		VL Baby corn 2 (C)	81.3	126.7	191.0	191.3	51.0	3.0	147198	4.24	1.7
	150% RDF	PAC321	82.3	124.6	208.0	199.0	57.3	3.0	145288	3.97	3.8
		VL Baby corn 2 (C)	81.9	125.8	197.0	194.0	46.0	3.0	159001	4.25	2.9
High	RDF	PAC321	97.9	163.2	208.7	200.3	58.3	3.0	145066	4.19	8.3
		VL Baby corn 2 (C)	98.8	164.6	198.0	188.7	46.7	3.0	183826	5.04	6.3
	150% RDF	PAC321	98.8	164.6	212.7	203.3	57.3	3.0	174542	4.56	5.6
		VL Baby corn 2 (C)	98.3	163.9	202.7	196.0	46.0	3.0	187341	4.82	4.9
Mean of location			90.1	144.7	202.1	196.3	53.0	3.0	159163.7	4.37	4.5
Normal			81.9	125.4	198.8	195.6	53.8	3.0	145634	4.09	2.7
High			98.4	164.1	205.5	197.1	52.1	3.0	172694	4.65	6.3
CD at 5%			0.4	4.2	NS	NS	0.6	0.0	NS	NS	1.2
CV (%)			0.2	1.6	3.0	4.0	0.7	0.0	20.6	15.9	15.1
RDF			90.0	144.8	199.2	194.6	54.3	3.0	151784	4.34	4.7
150% RDF			90.3	144.7	205.1	198.1	51.7	3.0	166543	4.40	4.3
CD at 5%			NS	NS	4.4	NS	0.7	0.0	NS	NS	NS
CV (%)			1.1	1.7	1.9	7.6	1.1	0.0	10.2	8.3	9.9
PAC321			90.2	144.2	207.1	200.2	58.5	3.0	148986	4.15	5.0
VL Baby corn 2 (C)			90.1	145.2	197.2	192.5	47.4	3.0	169341	4.59	3.9
CD at 5%			NS	NS	1.5	4.8	0.3	0.0	NS	NS	NS
CV (%)			1.1	1.8	0.8	2.6	0.7	0.0	15.2	11.8	40.1

Table 22: Performance of pre release babycorn genotypes in *Kharif* under varying planting densities and nutrient levels in North East Plain Zone (NEPZ).

Density	Nutrient levels	Genotype	Baby Corn yield with husk (kg/ha)		Baby Corn yield without husk (kg/ha)		Green fodder yield (kg/ha)	
			Dholi	Ranchi	Dholi	Ranchi	Dholi	Ranchi
Normal	RDF	PAC321	5870	14761	1145	2180	11358	33123
		AH-5021	5505	12520	1207	1774	10957	35178
		VL Baby corn 2 (C)	4463	11670	889	1683	11636	30457
	RDF 150%	PAC321	6728	14597	1222	2134	12500	33617
		AH-5021	7401	12911	1398	1812	12531	36067
		VL Baby corn 2 (C)	5188	12694	1006	1816	11821	31342
High	RDF	PAC321	7524	14935	1463	2267	12017	37153
		AH-5021	6292	13246	1264	1916	10749	40075
		VL Baby corn 2 (C)	5242	12592	1083	1858	12953	36479
	RDF 150%	PAC321	7624	16379	1490	2318	11926	39271
		AH-5021	8086	12349	1539	1903	12107	41202
		VL Baby corn 2 (C)	6455	13696	1333	1998	12470	36211
Mean of location			6364.8	13529.2	1253.3	1971.7	11918.8	35847.8
Normal			5859	13192	1145	1900	11801	33297
High			6871	13866	1362	2043	12037	38399
CD at 5%			125.61	NS	27.01	NS	29.37	3624.7
CV (%)			1.38	4.7	1.50	8.7	0.17	7.1
RDF			5816	13287	1175	1946	11612	35411
150% RDF			6914	13771	1331	1997	12226	36285
CD at 5%			62.31	NS	8.99	NS	40.14	NS
CV (%)			1.06	0.2	0.78	10.9	0.36	4.1
PAC321			6937	15168	1330	2225	11950	35791
AH-5021			6821	12756	1352	1851	11586	38130
VL Baby corn 2 (C)			5337	12663	1078	1839	12220	33622
CD at 5%			42.35	770.5	7.33	160.2	27.18	2848.5
CV (%)			0.77	6.6	0.68	9.4	0.26	9.2

Density	Nutrient levels	Genotype	Plants ('000/ha)		Plant height (cm)		Days of first picking	
			Dholi	Ranchi	Dholi	Ranchi	Dholi	Ranchi
Normal	RDF	PAC321	93.2	103.7	95.3	168.7	52.7	49.7
		AH-5021	96.9	105.2	106.0	169.6	49.7	54.0
		VL Baby corn 2 (C)	93.2	105.6	112.9	160.8	55.3	46.0
	RDF 150%	PAC321	93.2	105.9	98.1	174.7	53.0	51.0
		AH-5021	97.5	105.9	107.2	181.5	49.7	47.3
		VL Baby corn 2 (C)	94.4	106.3	113.8	164.8	55.3	48.0
High	RDF	PAC321	113.5	126.7	100.0	176.8	52.3	53.0
		AH-5021	116.5	128.9	107.1	186.5	50.3	51.3
		VL Baby corn 2 (C)	112.9	127.8	117.5	157.3	55.7	50.0
	RDF 150%	PAC321	111.7	127.0	100.4	179.1	52.7	50.7
		AH-5021	121.4	128.5	108.7	187.3	49.7	52.7
		VL Baby corn 2 (C)	115.9	128.1	116.0	169.0	55.7	47.7

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Mean of location	105.0	116.6	106.9	173.0	52.7	50.1
Normal	94.7	105.4	105.6	170.0	52.6	49.3
High	115.3	127.8	108.3	176.0	52.7	50.9
CD at 5%	2.56	NS	0.34	NS	0.01	NS
CV (%)	1.70	3.2	0.22	9.0	0.02	4.3
RDF	104.4	116.3	106.5	169.9	52.7	50.7
150% RDF	105.7	117.0	107.4	176.1	52.7	49.6
CD at 5%	0.08	NS	0.07	NS	0.00	NS
CV (%)	0.09	4.3	0.07	5.5	0.01	2.9
PAC321	102.9	115.8	98.5	174.8	52.7	51.1
AH-5021	108.1	117.1	107.3	181.2	49.9	51.3
VL Baby corn 2 (C)	104.1	116.9	115.1	163.0	55.5	47.9
CD at 5%	0.13	5.4	0.36	10.3	0.12	2.3
CV (%)	0.14	5.1	0.39	6.9	0.27	5.3

Density	Nutrient levels	Genotype	No. of pickings	Net return (Rs/ha)	B:C ratio
			Ranchi	Ranchi	Ranchi
Normal	RDF	PAC321	8.3	233977	3.69
		AH-5021	9.0	189566	2.99
		VL Baby corn 2 (C)	8.7	171629	2.71
	RDF 150%	PAC321	9.7	227489	3.41
		AH-5021	7.3	194246	2.91
		VL Baby corn 2 (C)	8.7	188960	2.83
High	RDF	PAC321	7.3	248125	3.84
		AH-5021	9.3	211591	3.27
		VL Baby corn 2 (C)	8.7	197798	3.06
	RDF 150%	PAC321	8.7	255230	3.75
		AH-5021	8.3	209445	3.08
		VL Baby corn 2 (C)	9.0	216499	3.18
Mean of location			8.6	212046.3	3.23
Normal			8.6	200978	3.09
High			8.6	223115	3.36
CD at 5%			NS	NS	NS
CV (%)			7.0	11.6	11.3
RDF			8.6	208781	3.26
150% RDF			8.6	215312	3.19
CD at 5%			NS	NS	NS
CV (%)			8.0	14.2	14.3
PAC321			8.5	241205	3.67
AH-5021			8.5	201212	3.06
VL Baby corn 2 (C)			8.8	193722	2.95
CD at 5%			NS	22359.4	NS
CV (%)			6.9	12.2	12.0

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Table23: Performance of pre release babycorn genotypes in *Kharif* under varying planting densities and nutrient levels in Peninsular Zone (PZ).

Density	Nutrient levels	Genotypes	Baby corn yield with husk (kg/ha)			Baby corn yield without husk (kg/ha)	
			Dharwad	Hyderabad	Peddapuram	Hyderabad	Peddapuram
Normal	RDF	PAC321	9454	7324	7263	1690	2327
		VL Baby corn 2 (C)	10087	9299	5843	2482	1686
	150% RDF	PAC321	8135	7442	8584	1668	3035
		VL Baby corn 2 (C)	9123	9533	6234	2514	2203
High	RDF	PAC321	9709	8072	7854	1691	2742
		VL Baby corn 2 (C)	10781	10836	6182	2606	2142
	150% RDF	PAC321	10152	8329	8821	1952	3224
		VL Baby corn 2 (C)	10727	10954	6503	3056	2660
Mean of location			9771.0	8973.7	7160.5	2207.5	2502.3
Normal			9200	8400	6981	2089	2313
High			10342	9548	7340	2326	2692
CD at 5%			1031.4	418.9	NS	182.7	NS
CV (%)			6.0	4.1	7.4	7.4	18.5
RDF			10008	8883	6786	2117	2224
150% RDF			9534	9064	7535	2298	2780
CD at 5%			NS	NS	NS	NS	420.4
CV (%)			18.6	10.5	14.5	22.8	19.4
PAC321			9362	7792	8131	1750	2832
VL Baby corn 2 (C)			10180	10156	6190	2665	2173
CD at 5%			NS	581.3	743.9	187.6	222.2
CV (%)			18.8	8.4	13.5	11.0	11.5

Density	Nutrient levels	Genotypes	Green fodder yield (kg/ha)			Plants ('000/ha)		Cobs (000/ha)
			Dharwad	Hyderabad	Peddapuram	Hyderabad	Peddapuram	Hyderabad
Normal	RDF	PAC321	10110	17919	13620	67.8	104.2	171.7
		VL Baby corn 2 (C)	10617	20563	15843	68.3	103.7	331.3
	150% RDF	PAC321	10193	17393	14287	69.3	104.6	194.2
		VL Baby corn 2 (C)	10560	20145	15998	66.8	102.8	309.6
High	RDF	PAC321	11533	18833	15648	81.8	140.7	266.9
		VL Baby corn 2 (C)	11870	20135	17101	81.3	139.8	364.9
	150% RDF	PAC321	11580	19435	16704	82.8	141.2	224.6
		VL Baby corn 2 (C)	12130	22468	19124	82.5	140.3	400.9
Mean of location			11074.2	19611.1	16040.7	75.0	122.2	283.0
Normal			10370	19005	14937	68.0	103.8	251.7
High			11778	20218	17144	82.1	140.5	314.3
CD at 5%			803.1	NS	1388.0	0.8	2.4	31.3
CV (%)			4.1	12.1	7.7	0.9	1.7	9.8
RDF			11033	19362	15553	74.8	122.1	283.7
150% RDF			11116	19860	16528	75.3	122.2	282.3
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			6.6	13.8	8.1	3.3	1.7	16.1
PAC321			10854	18395	15065	75.4	122.7	214.3
VL Baby corn 2 (C)			11294	20828	17017	74.7	121.6	351.7
CD at 5%			NS	1106.9	846.2	NS	NS	32.1
CV (%)			8.2	7.3	6.8	1.6	1.7	14.7

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Density	Nutrient levels	Genotypes	Plant height (cm)			Cob length (cm)		Cob girth (cm)	Cob diameter (cm)
			Dharwad*	Hyderabad	Peddapuram	Peddapuram	Hyderabad	Peddapuram	Hyderabad
Normal	RDF	PAC321	127.7	174.8	120.6	11.2	8.75	1.6	0.99
		VL Baby corn 2 (C)	118.5	166.5	133.6	8.7	8.05	1.5	0.87
	150% RDF	PAC321	116.8	180.8	123.9	11.2	9.06	1.6	1.03
		VL Baby corn 2 (C)	119.6	176.9	138.9	8.8	7.98	1.5	0.93
High	RDF	PAC321	126.7	184.4	126.0	10.5	9.24	1.6	1.10
		VL Baby corn 2 (C)	125.2	181.2	135.2	8.7	8.14	1.4	0.92
	150% RDF	PAC321	117.5	191.0	128.1	11.3	9.33	1.6	1.08
		VL Baby corn 2 (C)	121.9	183.4	140.4	8.9	8.25	1.5	1.02
Mean of location			121.7	179.9	130.8	9.9	8.60	1.5	0.99
Normal			120.7	174.7	129.2	10.0	8.46	1.5	0.96
High			122.8	185.0	132.4	9.8	8.74	1.5	1.03
CD at 5%			NS	3.8	NS	NS	NS	NS	NS
CV (%)			1.8	1.9	4.5	5.4	6.5	2.2	7.0
RDF			124.5	176.7	128.8	9.8	8.54	1.5	0.97
150% RDF			119.0	183.0	132.8	10.0	8.65	1.5	1.01
CD at 5%			3.5	4.1	NS	NS	NS	NS	NS
CV (%)			2.5	2.6	4.2	10.0	5.2	9.8	8.0
PAC321			122.2	182.7	124.7	11.1	9.09	1.6	1.05
VL Baby corn 2 (C)			121.3	177.0	137.0	8.7	8.10	1.4	0.94
CD at 5%			NS	4.0	5.1	0.5	0.4	0.1	0.1
CV (%)			4.5	2.9	5.1	6.8	5.5	9.8	7.5

Dharwad = Plant height (cm) at Istpicking

Density	Nutrient levels	Genotypes	Days to 50% tasseling		Days to first picking		FAW (%)	Shoot fly/plot at 30 DAS	TLB (1-9 scale)
			Peddapuram	Peddapuram	Peddapuram	Dharwad	Dharwad	Dharwad	Dharwad
Normal	RDF	PAC321	46.8	49.5	51.5	68.0	0.67	1.33	3.50
		VL Baby corn 2 (C)	41.5	43.8	45.5	57.0	1.00	1.33	7.00
	150% RDF	PAC321	46.5	49.0	50.8	69.3	1.33	1.00	4.17
		VL Baby corn 2 (C)	41.0	43.8	45.8	57.3	1.33	1.33	6.67
High	RDF	PAC321	46.5	48.8	50.8	68.0	1.00	0.67	5.00
		VL Baby corn 2 (C)	41.5	44.0	46.0	54.0	1.33	1.00	4.50
	150% RDF	PAC321	46.3	48.3	50.5	61.7	0.67	1.00	3.50
		VL Baby corn 2 (C)	40.8	43.3	45.5	54.7	1.33	0.67	6.33
Mean of location			43.8	46.3	48.3	61.3	1.08	1.04	5.08
Normal			43.9	46.5	48.4	62.9	1.08	1.25	5.33
High			43.8	46.1	48.2	59.6	1.08	0.83	4.83
CD at 5%			NS	NS	NS	1.9	NS	NS	0.3
CV (%)			1.4	1.4	2.8	1.8	56.5	39.2	3.5
RDF			44.1	46.5	48.4	61.8	1.00	1.08	5.00
150% RDF			43.6	46.1	48.1	60.8	1.17	1.00	5.17
CD at 5%			0.4	0.4	NS	NS	NS	NS	NS
CV (%)			1.0	1.1	1.3	2.1	49.9	39.2	11.9
PAC321			46.5	48.9	50.9	66.8	0.9	1.0	4.0
VL Baby corn 2 (C)			41.2	43.7	45.7	55.8	1.3	1.1	6.1
CD at 5%			0.5	0.5	0.5	1.4	NS	NS	1.1
CV (%)			1.5	1.4	1.4	2.4	79.9	48.0	22.1

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Density	Nutrient levels	Genotypes	Net return (Rs./ha)			B-C ratio		
			Dharwad	Hyderabad	Peddapuram	Dharwad	Hyderabad	Peddapuram
Normal	RDF	PAC321	194393	120877	92060	4.66	2.04	2.38
		VL Baby corn 2 (C)	207227	182784	65871	4.65	2.57	1.99
	150% RDF	PAC321	168937	126399	116819	4.69	2.11	2.69
		VL Baby corn 2 (C)	188486	191864	71534	4.67	2.68	2.03
High	RDF	PAC321	201920	142519	103403	4.77	2.20	2.49
		VL Baby corn 2 (C)	223064	226751	71417	4.74	2.91	2.03
	150% RDF	PAC321	209411	153318	121475	4.66	2.32	2.70
		VL Baby corn 2 (C)	222306	235082	77529	4.75	3.03	2.08
Mean of location			201967.9	172449	90013.4	4.70	2.48	2.30
Normal			189761	155481	86571	4.67	2.35	2.27
High			214175	189417	93456	4.73	2.62	2.32
CD at 5%			NS	12727.5	NS	NS	0.1	NS
CV (%)			7.5	6.6	13.0	6.4	3.9	7.6
RDF			206651	168233	83188	4.70	2.43	2.22
150% RDF			197285	176665	96839	4.69	2.53	2.38
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			22.1	17.5	23.1	17.6	10.5	13.2
PAC321			193665	135778	108439	4.69	2.17	2.56
VL Baby corn 2 (C)			210271	209120	71588	4.70	2.80	2.03
CD at 5%			NS	16650.4	NS	NS	0.1	0.2
CV (%)			22.6	12.5	21.7	17.4	7.5	12.4

Table 24: Performance of pre release babycorn genotypes in *Kharif* under varying planting densities and nutrient levels in Central Western Zone (CWZ).

Density	Nutrient levels	Genotypes	Baby corn yield with husk (kg/ha)			Baby corn yield without husk (kg/ha)		
			Chhindwara	Godhara*	Udaipur	Chhindwara	Godhara	Udaipur
Normal	RDF	PAC321	6375	1133	6503	1560	175	1687
		VL Baby corn 2 (C)	6584	2667	8092	1705	477	1991
	150% RDF	PAC321	6851	2433	6678	1952	325	1719
		VL Baby corn 2 (C)	7058	3667	8235	2006	661	2021
High	RDF	PAC321	7260	1600	7802	1855	218	2016
		VL Baby corn 2 (C)	7555	1967	9756	1975	358	2404
	150% RDF	PAC321	7768	2400	7870	1899	306	2035
		VL Baby corn 2 (C)	7954	2200	9770	1991	400	2406
Mean of location			7175.6	2258.3	8088.2	1867.9	365.0	2034.7
Normal			6717	2475	7377	1806	410	1854
High			7634	2042	8800	1930	321	2215
CD at 5%			294.8	NS	922.2	NS	NS	224.4
CV (%)			2.3	39.1	6.5	7.9	24.9	6.3
RDF			6943	1842	8038	1774	307	2024
150% RDF			7408	2675	8138	1962	423	2045
CD at 5%			321.3	NS	NS	87.4	NS	NS
CV (%)			4.0	32.9	2.9	4.1	34.6	2.8
PAC321			7064	1892	7213	1817	256	1864
VL Baby corn 2 (C)			7288	2625	8963	1919	474	2205
CD at 5%			141.3	NS	151.7	22.4	154.8	37.4
CV (%)			2.1	39.9	2.0	1.3	45.1	2.0

*Data not to be considered due to high CV.

Density	Nutrient levels	Genotypes	Green fodder yield (kg/ha)			Plants ('000/ha)		
			Chhindwara	Godhara*	Udaipur	Chhindwara	Godhara	Udaipur
Normal	RDF	PAC321	17662	4433	32631	95.5	21.3	75.8
		VL Baby corn 2 (C)	19055	8000	35536	98.5	39.7	74.9
	150% RDF	PAC321	18225	6733	33514	97.7	28.3	74.9
		VL Baby corn 2 (C)	20205	5167	36521	99.6	43.3	74.9
High	RDF	PAC321	19025	6033	35695	110.5	32.7	91.3
		VL Baby corn 2 (C)	21215	6433	37681	117.8	38.3	91.6
	150% RDF	PAC321	20019	7433	36710	114.5	32.0	91.6
		VL Baby corn 2 (C)	22301	5900	38662	119.8	32.0	91.3
Mean of location			19713.5	6266.7	35868.5	106.7	33.5	83.3
Normal			18787	6083	34550	97.8	33.2	75.1
High			20640	6450	37187	115.6	33.8	91.4
CD at 5%			1048.9	NS	NS	8.9	NS	3.7
CV (%)			3.0	69.4	7.1	4.7	34.6	2.5
RDF			19240	6225	35386	105.6	33.0	83.4
150% RDF			20188	6308	36352	107.9	33.9	83.2
CD at 5%			739.4	NS	443.4	NS	NS	NS
CV (%)			3.3	40.3	1.1	5.2	54.2	0.4
PAC321			18733	6158	34637	104.5	28.6	83.4
VL Baby corn 2 (C)			20694	6375	37100	108.9	38.3	83.2
CD at 5%			396.8	NS	416.4	3.3	NS	NS
CV (%)			2.1	46.1	1.2	3.3	37.0	1.2

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Density	Nutrient levels	Genotypes	Plant height (cm)			Days to 50% tasseling	Days to 50% silking	Days to first picking		
			Chhindwara	Godhara	Udaipur	Chhindwara	Chhindwara	Chhindwara	Godhara	Udaipur
Normal	RDF	PAC321	125.7	121.1	162.6	46.0	55.0	58.0	52.7	50.0
		VL Baby corn 2 (C)	131.5	117.8	155.3	45.0	52.0	53.0	48.0	50.0
	150% RDF	PAC321	127.9	123.3	166.4	47.0	56.0	57.0	51.3	50.0
		VL Baby corn 2 (C)	133.8	118.3	160.3	45.5	52.5	54.0	48.0	50.7
High	RDF	PAC321	129.5	120.5	162.4	48.0	58.0	58.5	52.7	51.0
		VL Baby corn 2 (C)	139.3	105.0	155.3	45.0	53.5	54.0	48.7	50.3
	150% RDF	PAC321	131.0	118.3	166.4	48.5	57.0	58.0	52.0	50.0
		VL Baby corn 2 (C)	141.5	80.0	160.6	46.0	54.0	55.0	32.0	50.0
Mean of location			132.5	113.0	161.1	46.4	54.8	55.9	48.2	50.3
Normal			129.7	120.1	161.1	45.9	53.9	55.5	50.0	50.2
High			135.3	106.0	161.2	46.9	55.6	56.4	46.3	50.3
CD at 5%			3.3	NS	NS	NS	NS	NS	NS	NS
CV (%)			1.4	22.6	4.9	9.2	9.1	1.8	19.9	6.7
RDF			131.5	116.1	158.9	46.0	54.6	55.9	50.5	50.3
150% RDF			133.5	110.0	163.4	46.8	54.9	56.0	45.8	50.2
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			2.5	21.2	2.5	11.1	11.0	4.1	20.8	2.7
PAC321			128.5	120.8	164.4	47.4	56.5	57.9	52.2	50.3
VL Baby corn 2 (C)			136.5	105.2	157.9	45.4	53.0	54.0	44.2	50.3
CD at 5%			4.0	NS	NS	1.3	1.5	1.1	NS	NS
CV (%)			3.2	19.5	4.5	2.9	3.0	2.1	20.4	3.1

Density	Nutrient levels	Genotypes	Net Return (Rs./ha)			BC ratio			Insect (FAW%) Incidence
			Chhindwara	Godhara	Udaipur	Chhindwara	Godhara	Udaipur	Godhara
Normal	RDF	PAC321	47813	10735	126542	2.68	1.40	5.49	0.67
		VL Baby corn 2 (C)	51357	37143	147590	2.80	2.39	6.40	1.33
	150% RDF	PAC321	55898	17913	129125	2.85	1.64	5.42	1.67
		VL Baby corn 2 (C)	91370	48393	150255	2.89	2.72	6.31	1.00
High	RDF	PAC321	95174	7263	148913	3.47	1.27	6.39	2.33
		VL Baby corn 2 (C)	103385	22083	172245	3.75	1.83	7.39	2.33
	150% RDF	PAC321	111407	17393	151069	3.95	1.62	6.27	2.67
		VL Baby corn 2 (C)	135206	23693	173521	4.22	1.84	7.21	1.67
Mean of location			86451.2	23077.0	149907.5	3.33	1.84	6.36	1.7
Normal			61610	28546	138378	2.80	2.04	5.90	1.2
High			111293	17608	161437	3.85	1.64	6.82	2.3
CD at 5%			8419.6		20117.6	0.2		NS	NS
CV (%)			5.5		7.6	2.8		7.7	43.1
RDF			74432	19306	148822	3.18	1.72	6.42	1.7
150% RDF			98470	26848	150993	3.48	1.96	6.30	1.8
CD at 5%			4867.7		NS	0.2		NS	NS
CV (%)			5.0		2.0	3.9		2.0	44.7
PAC321			77573	13326	138912	3.24	1.48	5.89	1.8
VL Baby corn 2 (C)			95329	32828	160903	3.41	2.20	6.83	1.6
CD at 5%			2432.9		1999.9	0.1		NS	NS
CV (%)			3.0		1.4	2.3		1.4	44.7

Table 25: Performance of pre release OPV genotypes under varying planting densities and nutrient levels in Northern Hill Zone (NHZ).

Density	Nutrient levels	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)		Cob yield (kg/ha)
			Imphal	Gossaingaon	Imphal	Gossaingaon	Gossaingaon
Normal	RDF	Vijay (Check)	4030	4373	8185	6567	5000
		RCM 1-61	7746	3915	12279	6123	4867
		RCM1-76	8300	4547	13593	6767	5767
		Hemant (Check)	4992	4043	9444	7120	4933
	150% RDF	Vijay (Check)	3972	4270	7864	6767	5033
		RCM 1-61	7802	4837	12192	7474	5867
		RCM1-76	8064	5490	12261	8015	6633
		Hemant (Check)	4770	5033	8021	7233	5900
High	RDF	Vijay (Check)	3499	5913	8160	9126	6967
		RCM 1-61	6506	5662	10737	8200	6300
		RCM1-76	7586	5388	11663	8108	6200
		Hemant (Check)	3836	6171	8214	8704	6967
	150% RDF	Vijay (Check)	3923	5357	8358	8177	6150
		RCM 1-61	7127	6036	10875	8388	7467
		RCM1-76	7346	5353	11333	7955	6400
		Hemant (Check)	4262	7520	8951	10250	8600
Mean of location			5860.1	5244.3	10133.1	7810.9	6190.6
Normal			6210	4564	10480	7008	5500
High			5511	5925	9786	8613	6881
CD at 5%			651.5	NS	NS	NS	NS
CV (%)			9.0	38.6	9.6	33.3	36.3
RDF			5812	5002	10284	7589	5875
150% RDF			5908	5487	9982	8032	6506
CD at 5%			NS	394.0	179.3	428.6	414.7
CV (%)			6.1	9.4	2.2	6.8	8.4
Vijay (Check)			3856	4978	8142	7659	5788
RCM 1-61			7295	5113	11521	7547	6125
RCM1-76			7824	5195	12212	7711	6250
Hemant (Check)			4465	5692	8657	8327	6600
CD at 5%			330.1	NS	835.3	NS	NS
CV (%)			6.7	17.8	9.8	12.3	14.9

Cont...

Density	Nutrient levels	Genotypes	Plants ('000/ha)		Cobs ('000/ha)		Plant height (cm)	
			Imphal	Gossaingaon	Imphal	Gossaingaon	Imphal	Gossaingaon
Normal	RDF	Vijay (Check)	45.2	58.7	52.9	56.3	297.7	170.1
		RCM 1-61	56.7	62.3	60.8	57.7	317.1	161.0
		RCM1-76	61.9	59.0	69.2	58.7	336.5	163.1
		Hemant (Check)	47.0	59.0	47.3	56.7	314.0	156.6
	150% RDF	Vijay (Check)	41.1	59.7	40.5	59.3	303.3	176.2
		RCM 1-61	58.2	61.0	60.4	60.3	318.7	168.5
		RCM1-76	60.7	68.0	64.4	66.3	327.0	164.1
		Hemant (Check)	47.4	62.0	51.7	59.7	310.8	169.2
High	RDF	Vijay (Check)	49.6	75.7	45.2	73.7	301.3	177.5
		RCM 1-61	66.2	75.3	64.7	73.0	326.7	167.6
		RCM1-76	72.2	69.0	69.0	67.3	324.9	175.8
		Hemant (Check)	55.2	75.3	49.7	74.3	314.0	164.5
	150% RDF	Vijay (Check)	51.5	67.0	48.5	66.3	306.3	173.6
		RCM 1-61	71.9	75.7	64.5	73.3	327.7	180.7
		RCM1-76	73.5	70.0	68.4	69.0	325.3	168.6
		Hemant (Check)	53.3	84.7	52.1	84.7	321.3	169.4
Mean of location			57.0	67.6	56.8	66.0	317.0	169.2
Normal			52.3	61.2	55.9	59.4	315.6	166.1
High			61.7	74.1	57.8	72.7	318.5	172.2
CD at 5%			6.2	NS	NS	NS	NS	NS
CV (%)			8.8	15.9	2.9	19.7	2.4	36.9
RDF			56.8	66.8	57.3	64.7	316.5	167.0
150% RDF			57.2	68.5	56.3	67.4	317.6	171.3
CD at 5%			NS	1.3	NS	1.5	NS	NS
CV (%)			7.0	2.4	5.5	2.7	4.2	17.2
Vijay (Check)			46.9	65.3	46.8	63.9	302.2	174.4
RCM 1-61			63.2	68.6	62.6	66.1	322.5	169.4
RCM1-76			67.1	66.5	67.8	65.3	328.4	167.9
Hemant (Check)			50.7	70.3	50.2	68.8	315.0	164.9
CD at 5%			2.3	NS	3.3	NS	7.0	NS
CV (%)			4.8	15.6	6.8	15.5	2.6	9.7

Cont...

Density	Nutrient levels	Genotypes	Ear height (cm)	Days to 50% tasseling		Days to 50% silking		Days to maturity
			Gossaingaon	Imphal	Gossaingaon	Imphal	Gossaingaon	Gossaingaon
Normal	RDF	Vijay (Check)	72.7	61.3	57.3	64.7	61.0	110.3
		RCM 1-61	58.8	59.7	59.0	64.3	62.0	112.0
		RCM1-76	75.3	56.3	57.3	61.3	60.7	113.0
		Hemant (Check)	70.1	60.3	57.0	64.7	61.0	113.0
	150% RDF	Vijay (Check)	84.8	60.3	56.3	63.3	59.3	111.0
		RCM 1-61	76.9	61.3	57.3	65.3	59.7	113.0
		RCM1-76	69.5	57.3	58.7	62.3	61.7	112.7
		Hemant (Check)	73.1	60.0	56.0	63.7	60.0	112.0
High	RDF	Vijay (Check)	80.1	61.0	58.7	65.3	61.0	111.3
		RCM 1-61	79.1	61.7	57.0	64.7	60.7	111.7
		RCM1-76	78.5	56.3	56.0	60.7	60.7	111.3
		Hemant (Check)	72.2	61.0	55.3	64.0	60.3	111.7
	150% RDF	Vijay (Check)	75.2	61.3	55.7	65.7	59.0	109.0
		RCM 1-61	83.4	60.7	56.0	63.7	58.0	109.3
		RCM1-76	75.3	56.7	56.3	60.7	60.0	110.0
		Hemant (Check)	78.1	60.3	55.7	64.3	58.7	109.7
Mean of location			75.2	59.7	56.9	63.7	60.2	111.3
Normal			72.6	59.6	57.4	63.7	60.7	112.1
High			77.7	59.9	56.3	63.6	59.8	110.5
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			39.6	0.9	3.7	0.6	1.8	3.7
RDF			73.3	59.7	57.2	63.7	60.9	111.8
150% RDF			77.0	59.8	56.5	63.6	59.5	110.8
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			18.0	1.2	2.6	0.8	3.2	2.4
Vijay (Check)			78.2	61.0	57.0	64.8	60.1	110.4
RCM 1-61			74.6	60.8	57.3	64.5	60.1	111.5
RCM1-76			74.6	56.7	57.1	61.3	60.8	111.8
Hemant (Check)			73.4	60.4	56.0	64.2	60.0	111.6
CD at 5%			NS	0.7	NS	0.7	NS	NS
CV (%)			15.6	1.4	1.6	1.2	2.6	1.9

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Density	Nutrient levels	Genotypes	100-seed weight (g)		Net return (Rs./ha)		B:C ratio	
			Imphal	Gossaingaon	Imphal	Gossaingaon	Imphal	Gossaingaon
Normal	RDF	Vijay (Check)	24.7	25.0	31498	38927	1.55	1.80
		RCM 1-61	28.6	29.0	113243	29767	2.98	1.61
		RCM1-76	31.2	29.0	125449	42393	3.19	1.87
		Hemant (Check)	28.0	26.0	52672	32313	1.92	1.67
	150% RDF	Vijay (Check)	23.3	28.0	24967	34237	1.40	1.67
		RCM 1-61	26.0	30.0	109228	45584	2.75	1.89
		RCM1-76	31.1	26.7	114987	58637	2.84	2.15
		Hemant (Check)	24.7	27.0	42525	49490	1.68	1.97
High	RDF	Vijay (Check)	23.1	30.0	16311	69713	1.27	2.44
		RCM 1-61	26.0	29.7	82462	64707	2.36	2.33
		RCM1-76	29.7	29.3	106210	59220	2.75	2.22
		Hemant (Check)	25.4	28.7	23714	74887	1.39	2.54
	150% RDF	Vijay (Check)	24.2	27.7	20365	55984	1.31	2.09
		RCM 1-61	27.3	27.7	90857	69550	2.38	2.36
		RCM1-76	29.9	29.0	95673	55904	2.45	2.09
		Hemant (Check)	27.3	28.7	27828	99244	1.42	2.94
Mean of location			26.9	28.2	67374.3	55034.8	2.10	2.10
Normal			27.2	27.6	76821	41419	2.29	1.83
High			26.6	28.8	57927	68651	1.92	2.38
CD at 5%			NS	NS	14331.9	NS	0.2	NS
CV (%)			8.8	6.2	17.1	73.6	8.5	38.8
RDF			27.1	28.3	68945	51491	2.18	2.06
150% RDF			26.7	28.1	65804	58579	2.03	2.14
CD at 5%			NS	NS	NS	NS	0.1	NS
CV (%)			9.8	8.9	11.7	17.9	6.5	9.6
Vijay (Check)			23.8	27.7	23285	49715	1.38	2.00
RCM 1-61			27.0	29.1	98948	52402	2.62	2.05
RCM1-76			30.5	28.5	110580	54039	2.81	2.08
Hemant (Check)			26.4	27.6	36685	63984	1.60	2.28
CD at 5%			1.5	NS	7262.9	NS	0.1	NS
CV (%)			6.8	10.3	12.8	33.9	6.6	17.5

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Density	Nutrient levels	Genotypes	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grain/ rows	Moisture (%)	Shelling (%)
			Imphal				Gossaingaon	
Normal	RDF	Vijay (Check)	16.0	13.3	12.5	32.9	21.2	75.6
		RCM 1-61	19.2	13.9	13.0	38.3	21.9	76.9
		RCM1-76	18.0	15.1	13.7	38.9	21.2	78.8
		Hemant (Check)	15.8	13.9	12.8	33.8	21.2	77.4
	150% RDF	Vijay (Check)	16.0	13.4	12.9	35.3	20.7	79.8
		RCM 1-61	16.7	14.7	13.5	37.3	22.2	77.1
		RCM1-76	17.9	14.9	13.6	37.2	21.7	73.8
		Hemant (Check)	15.9	13.7	12.8	33.6	21.1	78.1
High	RDF	Vijay (Check)	16.2	13.5	12.5	33.9	21.8	75.3
		RCM 1-61	17.0	14.7	13.1	34.3	21.8	74.7
		RCM1-76	17.5	14.8	13.2	37.3	21.8	77.9
		Hemant (Check)	16.4	13.9	12.4	34.0	21.3	76.0
	150% RDF	Vijay (Check)	15.9	13.8	12.4	30.5	21.5	77.8
		RCM 1-61	16.6	14.8	12.7	36.3	21.3	76.9
		RCM1-76	17.4	14.9	12.9	36.2	22.0	81.6
		Hemant (Check)	15.5	13.9	12.8	32.2	20.7	73.4
Mean of location			16.8	14.2	12.9	35.1	21.5	77.0
Normal			16.9	14.1	13.1	35.9	21.4	77.2
High			16.6	14.3	12.8	34.3	21.5	76.7
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			3.9	2.8	3.8	6.4	6.3	4.7
RDF			17.0	14.2	12.9	35.4	21.5	76.6
150% RDF			16.5	14.3	13.0	34.8	21.4	77.3
CD at 5%			NS	NS	NS	0.5	NS	NS
CV (%)			6.8	2.5	4.5	1.9	2.4	4.7
Vijay (Check)			16.0	13.5	12.6	33.2	21.3	77.1
RCM 1-61			17.4	14.5	13.1	36.5	21.8	76.4
RCM1-76			17.7	14.9	13.4	37.4	21.7	78.0
Hemant (Check)			15.9	13.9	12.7	33.4	21.1	76.3
CD at 5%			0.8	0.4	NS	2.4	NS	NS
CV (%)			6.0	3.1	6.6	8.0	4.8	3.8

Table 26: Nutrient management in maize-wheat-green gram/cowpea cropping system under different tillage practices at Pantnagar.

Tillage practices	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	Net returns (Rs./ha)	B:C ratio
Zero Tillage	GS guided	5742	10794	65.6	65.6	169.4	50.3	54.0	74289	2.8
	SSNM	5942	11111	65.1	65.1	171.0	50.7	54.3	80086	3.3
	100% RDF	6146	11164	64.6	64.6	169.9	50.7	54.0	81836	3.1
Conventional	GS guided	5582	9947	65.1	65.1	166.7	50.3	53.7	69185	2.4
	SSNM	5906	10265	64.6	64.6	168.9	50.7	54.0	70577	2.1
	100% RDF	5992	10370	65.6	65.6	170.1	50.3	53.7	70253	2.0
Permanent Beds	GS guided	4751	8254	64.0	64.0	159.1	51.0	54.3	54043	1.8
	SSNM	4809	8677	65.6	65.6	160.8	50.3	54.0	57714	2.1
	100% RDF	5012	8571	64.0	64.0	162.3	50.7	54.0	59446	2.1
Location mean		5542.5	9905.9	64.9	64.9	166.4	50.6	54.0	68603.1	2.4
C.D.(5%) AiBj-AiBk		794.4	1125.7	3.3	3.3	8.6	0.8	1.3	13982.2	0.5
C.D.(5%) AiBk-AjBk		1041.2	1128.8	3.5	3.5	11.0	1.2	1.5	18325.6	0.7
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS	NS
Zero Tillage		5943	11023	65.1	65.1	170.1	50.6	54.1	78737	3.1
Conventional		5827	10194	65.1	65.1	168.5	50.4	53.8	70005	2.2
Permanent Beds		4857	8501	64.6	64.6	160.7	50.7	54.1	57068	2.0
C.D. (5%) Ai-Aj		824.1	667.1	2.2	2.2	8.6	1.0	1.2	14504.1	0.5
C.V. (%) Error A		11.4	5.1	2.6	2.6	4.0	1.5	1.6	16.2	17.1
F (5%)		S	S	NS	NS	NS	NS	NS	S	S
GS guided		5359	9665	64.9	64.9	165.0	50.6	54.0	65839	2.3
SSNM (120:10:46)		5552	10018	65.1	65.1	166.9	50.6	54.1	69459	2.5
100% RDF (120:60:40)		5717	10035	64.7	64.7	167.4	50.6	53.9	70512	2.4
C.D. (5%) Bi-Bj		458.7	649.9	1.9	1.9	5.0	0.4	0.7	8072.7	0.3
C.V. (%) ErrorB		8.1	6.4	2.9	2.9	2.9	0.9	1.3	11.5	12.2
F (5%)		NS	NS	NS	NS	NS	NS	NS	NS	NS

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Tillage practices	Nutrient management	100-seed weight (g)	Cob length (cm)	Cob girth (cm)	Grains/cob	N uptake (kg/ha)		
						Grain	Stover	Total
Zero Tillage	GS guided	21.7	15.7	13.2	349.8	74.6	45.3	119.9
	SSNM	21.0	15.8	13.3	333.1	77.1	49.3	126.4
	100% RDF	21.5	16.0	13.2	342.1	79.8	45.7	125.5
Conventional	GS guided	21.4	15.7	13.2	353.0	73.8	43.3	117.2
	SSNM	21.2	15.8	13.2	339.1	75.3	41.5	116.8
	100% RDF	21.2	15.8	13.1	346.7	77.6	43.3	120.9
Permanent Beds	GS guided	19.1	14.7	12.7	271.5	61.3	31.8	93.0
	SSNM	19.4	14.8	12.8	262.6	62.1	35.1	97.2
	100% RDF	19.2	14.8	12.9	270.2	64.6	34.4	99.0
Location mean		20.6	15.5	13.1	318.7	71.8	41.1	112.9
C.D.(5%) AiBj-AiBk		2.6	0.5	0.9	102.3	10.5	8.9	15.7
C.D.(5%) AiBk-AjBk		2.5	0.6	1.1	92.5	13.4	8.6	19.1
F(5%)		NS	NS	NS	NS	NS	NS	NS
Zero Tillage		21.4	15.8	13.2	341.7	77.2	46.8	123.9
Conventional		21.3	15.8	13.2	346.3	75.6	42.7	118.3
Permanent Beds		19.2	14.8	12.8	268.1	62.7	33.8	96.4
C.D. (5%) Ai-Aj		1.4	0.5	0.8	40.5	10.4	4.7	14.3
C.V. (%) Error A		5.3	2.5	4.9	9.7	11.1	8.7	9.7
F (5%)		S	S	NS	S	S	S	S
GS guided		20.7	15.4	13.0	324.8	69.9	40.1	110.0
SSNM (120:10:46)		20.5	15.5	13.1	311.6	71.5	41.9	113.5
100% RDF (120:60:40)		20.6	15.5	13.1	319.7	74.0	41.1	115.1
C.D. (5%) Bi-Bj		1.5	0.3	0.5	59.1	6.0	5.2	9.1
C.V. (%) ErrorB		7.0	1.7	4.0	18.0	8.2	12.2	7.8
F (5%)		NS	NS	NS	NS	NS	NS	NS

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Tillage practices	Nutrient management	P uptake (kg/ha)			K uptake (kg/ha)		
		Grain	Stover	Total	Grain	Stover	Total
Zero Tillage	GS guided	16.9	14.0	30.9	18.4	99.6	114.3
	SSNM	17.5	14.5	32.1	18.8	99.1	118.5
	100% RDF	18.8	14.6	33.3	19.4	86.1	118.5
Conventional	GS guided	16.4	12.7	29.0	17.7	91.7	103.8
	SSNM	17.8	13.0	30.8	18.5	90.8	110.1
	100% RDF	18.0	13.3	31.3	18.9	74.8	109.7
Permanent Beds	GS guided	14.5	10.7	25.2	14.9	76.1	89.6
	SSNM	14.4	11.1	25.4	15.0	75.7	91.1
	100% RDF	14.8	11.2	26.1	15.6	75.7	91.3
Location mean		16.6	12.8	29.4	17.5	85.5	105.2
C.D.(5%) AiBj-AiBk		2.5	2.1	3.6	2.2	10.2	10.7
C.D.(5%) AiBk-AjBk		3.0	1.8	3.9	3.2	10.8	13.7
F(5%)		NS	NS	NS	NS	NS	NS
Zero Tillage		17.7	14.4	32.1	18.9	94.9	117.1
Conventional		17.4	13.0	30.4	18.3	85.8	107.9
Permanent Beds		14.6	11.0	25.6	15.2	75.8	90.7
C.D. (5%) Ai-Aj		2.3	0.6	2.6	2.6	7.0	10.6
C.V. (%) Error A		10.4	3.5	6.8	11.4	6.2	7.7
F (5%)		S	S	S	S	S	S
GS guided		15.9	12.4	28.4	17.0	89.1	102.6
SSNM (120:10:46)		16.6	12.9	29.4	17.4	88.5	106.6
100% RDF (120:60:40)		17.2	13.0	30.2	18.0	78.9	106.5
C.D. (5%) Bi-Bj		1.4	1.2	2.1	1.3	5.9	6.2
C.V. (%) ErrorB		8.5	9.1	7.0	7.2	6.7	5.7
F (5%)		NS	NS	NS	NS	S	NS

Table 27: Nutrient management in maize-wheat-mungbean cropping system under different tillage practices at Dholi.

Tillage practices	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)
Zero Tillage	60% RDN + GS	5701	4640	6645	90.8	88.2	203.7	83.4
	RDF	5981	6207	7129	90.6	90.2	198.0	74.5
	SSNM	6244	7824	7338	90.4	88.4	199.3	76.6
Conventional Tillage	60% RDN + GS	5558	6238	6516	90.4	87.1	205.0	80.8
	RDF	5729	6515	6772	92.8	92.6	200.0	78.4
	SSNM	5822	5392	6829	91.0	88.1	195.3	76.1
Permanent Bed	60% RDN + GS	6120	4797	7186	91.0	88.4	191.0	78.4
	RDF	6250	3386	7621	92.0	93.0	197.7	79.1
	SSNM	6512	4464	7858	90.8	87.9	197.3	79.0
Location mean		5990.7	5495.9	7099.3	91.1	89.3	198.6	78.5
C.D.(5%) AiBj-AiBk		395.0	1881.9	503.6	1.5	2.3	20.3	13.1
C.D.(5%) AiBk-AjBk		440.4	2291.7	632.9	1.8	2.6	17.0	11.2
F(5%)		NS	S	NS	NS	NS	NS	NS
Zero tillage		5975	6224	7038	90.6	89.0	200.3	78.2
Conventional tillage		5703	6048	6705	91.4	89.2	200.1	78.4
Permanent bed		6294	4216	7555	91.3	89.8	195.3	78.8
C.D.(5%) Ai-Aj		304.5	1722.8	487.3	1.3	1.9	3.8	3.5
C.V.(%) Error A		3.9	24.0	5.2	1.1	1.6	1.5	3.4
F(5%)		S	NS	S	NS	NS	S	NS
60% RDN + GS		5793	5225	6782	90.7	87.9	199.9	80.9
RDF		5987	5369	7174	91.8	91.9	198.6	77.4
SSNM		6193	5893	7342	90.7	88.1	197.3	77.2
C.D.(5%)Bi-Bj		228.1	1086.5	290.7	0.9	1.3	11.7	7.6
C.V.(%)ErrorB		3.7	19.2	4.0	0.9	1.5	5.7	9.4
F(5%)		S	NS	S	S	S	NS	NS

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Tillage practices	Nutrient management	Days of 50% tasseling	Days of 50% silking	Days of maturity	Cob length (cm)	Cob girth (cm)	Moisture (%)
Zero Tillage	60% RDN + GS	59.3	64.0	96.0	15.0	12.2	19.0
	RDF	59.0	64.3	96.7	14.7	11.8	20.2
	SSNM	60.0	65.0	96.0	13.9	15.4	19.4
Conventional Tillage	60% RDN + GS	61.0	65.3	95.7	16.3	12.9	18.6
	RDF	58.3	63.3	96.7	16.5	12.8	20.0
	SSNM	59.3	64.0	95.3	15.6	12.2	19.2
Permanent Bed	60% RDN + GS	60.7	65.0	95.0	17.5	13.6	18.4
	RDF	59.0	63.0	96.3	14.6	12.1	20.0
	SSNM	60.7	65.3	95.3	13.8	10.7	19.5
Location mean		59.7	64.4	95.9	15.3	12.7	19.4
C.D.(5%) AiBj-AiBk		2.1	2.0	3.2	2.7	2.8	
C.D.(5%) AiBk-AjBk		1.7	1.7	2.8	3.9	3.5	
F(5%)		NS	NS	NS	NS	S	
Zero tillage		59.4	64.4	96.2	14.5	13.1	19.5
Conventional tillage		59.6	64.2	95.9	16.1	12.6	19.3
Permanent bed		60.1	64.4	95.6	15.3	12.2	19.3
C.D.(5%) Ai-Aj		0.5	0.6	1.1	3.3	2.7	
C.V.(%) Error A		0.6	0.7	0.9	16.3	16.3	
F(5%)		S	NS	NS	NS	NS	
60% RDN + GS		60.3	64.8	95.6	16.3	12.9	18.7
RDF		58.8	63.6	96.6	15.2	12.2	20.1
SSNM		60.0	64.8	95.6	14.4	12.8	19.4
C.D.(5%)Bi-Bj		1.2	1.2	1.8	1.6	1.6	
C.V.(%)ErrorB		1.9	1.8	1.9	9.9	12.3	
F(5%)		S	NS	NS	NS	NS	

Table 28: Nutrient management in maize-wheat-mungbean cropping system under different tillage practices at Udaipur.

Tillage practices	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
Zero tillage	RDF	4585	6883	64.3	70.7	212.4	45.0	49.7
	SSNM	5502	8537	64.1	72.5	214.4	45.0	49.3
	60% RDN+GS	4223	6221	64.2	69.4	197.3	45.3	50.7
Conventional tillage	RDF	3998	5825	64.4	69.5	208.4	45.3	51.0
	SSNM	4196	6263	64.1	71.2	210.8	44.3	48.7
	60% RDN+GS	3632	5246	64.7	68.9	195.7	45.7	50.7
Permanent bed	RDF	4414	6463	64.6	68.4	210.4	44.7	49.7
	SSNM	4679	6938	64.0	71.7	212.3	45.3	50.3
	60% RDN+GS	3515	5083	64.3	68.6	196.5	45.7	51.0
Location mean		4304.9	6384.3	64.3	70.1	206.5	45.1	50.1
C.D.(5%) AiBj-AiBk		419.7	611.8	2.5	3.5	20.2	2.9	2.7
C.D.(5%) AiBk-AjBk		378.7	549.7	2.3	3.0	17.8	2.7	2.7
F(5%)		S	S	NS	NS	NS	NS	NS
Zero tillage		4770	7214	64.2	70.8	208.0	45.1	49.9
Conventional tillage		3942	5778	64.4	69.9	205.0	45.1	50.1
Permanent bed		4203	6161	64.3	69.6	206.4	45.2	50.3
C.D. (5%) Ai-Aj		164.4	234.4	1.2	1.1	6.8	1.3	1.6
C.V. (%) Error A		2.9	2.8	1.4	1.2	2.5	2.3	2.5
F (5%)		S	S	NS	NS	NS	NS	NS
RDF (90:60:30)		4332	6390	64.4	69.5	210.4	45.0	50.1
SSNM (110:37:31)		4792	7246	64.1	71.8	212.5	44.9	49.4
60% RDN+GS		3790	5516	64.4	68.9	196.5	45.6	50.8
C.D. (5%) Bi-Bj		242.3	353.2	1.4	2.0	11.7	1.7	1.6
C.V. (%) ErrorB		5.5	5.4	2.2	2.8	5.5	3.6	3.1
F (5%)		S	S	NS	S	S	NS	NS

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Tillage practices	Nutrient management	Cob length (cm)	Shelling (%)	Net returns (Rs/ha)	B:C ratio	Uptake by maize grain (kg/ha)		
						N	P	K
Zero tillage	RDF	16.5	76.2	46948	2.15	75.8	15.1	20.0
	SSNM	16.7	80.6	62599	3.05	94.9	18.6	24.4
	60% RDN+GS	14.6	72.5	42656	2.08	73.1	14.4	18.4
Conventional tillage	RDF	15.2	74.3	35690	1.49	65.3	13.0	17.2
	SSNM	15.5	78.3	40283	1.78	71.4	14.1	18.3
	60% RDN+GS	13.0	69.1	31510	1.40	62.0	12.2	15.6
Permanent bed	RDF	15.5	75.2	43750	1.98	71.7	14.3	18.8
	SSNM	15.7	79.3	49229	2.37	79.8	15.8	19.8
	60% RDN+GS	13.5	71.2	31581	1.52	60.3	12.1	15.0
Location mean		15.1	75.2	42694.0	1.98	72.7	14.4	18.6
C.D.(5%) AiBj-AiBk		1.5	5.1	6255.7	0.29	7.8	1.5	2.0
C.D.(5%) AiBk-AjBk		1.5	5.1	5639.1	0.27	6.8	1.6	1.8
F(5%)		NS	NS	S	S	NS	NS	S
Zero tillage		15.9	76.4	50735	2.43	81.2	16.0	20.9
Conventional tillage		14.6	73.9	35828	1.56	66.2	13.1	17.0
Permanent bed		14.9	75.2	41520	1.95	70.6	14.0	17.9
C.D. (5%) Ai-Aj		0.8	3.0	2439.6	0.12	2.5	1.1	0.9
C.V. (%) Error A		4.3	3.0	4.4	4.7	2.6	5.8	3.7
F (5%)		S	NS	S	S	S	S	S
RDF (90:60:30)		15.8	75.2	42129	1.87	70.9	14.2	18.7
SSNM (110:37:31)		15.9	79.4	50704	2.40	82.0	16.1	20.8
60% RDN+GS		13.7	70.9	35249	1.67	65.1	12.9	16.4
C.D. (5%) Bi-Bj		0.9	2.9	3611.7	0.17	4.5	0.8	1.1
C.V. (%) ErrorB		5.7	3.8	8.2	8.2	6.0	5.7	5.9
F (5%)		S	S	S	S	S	S	S

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Tillage practices	Nutrient management	Wheat grain yield (kg/ha)	Wheat stover yield (kg/ha)	Effective tillers (m^2)	Days to maturity of wheat	Uptake by wheat grain (kg/ha)		
						N	P	K
Zero tillage	RDF	4827	7234	210.0	120.3	78.6	15.6	20.3
	SSNM	5341	8444	215.0	122.7	90.9	17.5	22.9
	60% RDN+GS	4315	6035	200.0	109.3	73.6	14.2	18.3
Conventional tillage	RDF	4215	6308	205.3	118.3	68.0	13.4	17.5
	SSNM	4730	7509	210.0	116.0	79.3	15.4	19.9
	60% RDN+GS	3708	5193	195.3	117.0	62.5	12.1	15.5
Permanent bed	RDF	4103	6123	201.0	118.7	65.7	12.9	17.1
	SSNM	4533	7189	205.3	111.0	76.4	14.8	18.7
	60% RDN+GS	3424	4795	190.3	123.0	58.0	11.4	14.2
Location mean		4355.0	6536.8	203.6	117.4	72.5	14.2	18.3
C.D.(5%) AiBj-AiBk		504.1	854.9	26.6	13.4	8.4	1.8	2.2
C.D.(5%) AiBk-AjBk		559.3	740.7	22.4	14.9	8.7	1.8	2.5
F(5%)		NS	NS	NS	NS	NS	NS	NS
Zero tillage		4827	7238	208.3	117.4	81.0	15.8	20.5
Conventional tillage		4218	6337	203.6	117.1	69.9	13.6	17.6
Permanent bed		4020	6036	198.9	117.6	66.7	13.1	16.7
C.D. (5%) Ai-Aj		384.5	253.2	5.5	10.2	5.4	1.1	1.9
C.V. (%) Error A		6.7	3.0	2.1	6.7	5.7	5.9	7.8
F (5%)		S	S	S	NS	S	S	S
RDF (90:60:30)		4382	6555	205.4	119.1	70.7	14.0	18.3
SSNM (110:37:31)		4868	7714	210.1	116.6	82.2	15.9	20.5
60% RDN+GS		3816	5341	195.2	116.4	64.7	12.6	16.0
C.D. (5%) Bi-Bj		291.0	493.6	15.4	7.7	4.9	1.0	1.2
C.V. (%) ErrorB		6.5	7.4	7.3	6.4	6.5	7.2	6.6
F (5%)		S	S	NS	NS	S	S	S

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Tillage practices	Nutrient management	Green gram seed yield (kg/ha)	Day to maturity of green gram	Net returns (Rs/ha)	B:C ratio
Zero tillage	RDF	404.7	90.7	148222	3.09
	SSNM	477.0	91.0	181253	3.89
	60% RDN+GS	355.3	89.3	129485	2.82
Conventional tillage	RDF	355.0	89.0	116774	2.15
	SSNM	386.0	93.3	134601	2.55
	60% RDN+GS	311.3	90.0	98959	1.89
Permanent bed	RDF	323.0	89.0	123180	2.52
	SSNM	325.7	90.0	137523	2.90
	60% RDN+GS	278.0	90.7	94235	2.01
Location mean		357.3	90.3	129358.9	2.65
C.D.(5%) AiBj-AiBk		46.9	6.3	11644.2	0.24
C.D.(5%) AiBk-AjBk		44.7	5.7	10494.1	0.21
F(5%)		NS	NS	NS	S
Zero tillage		412.3	90.3	152986	3.27
Conventional tillage		350.8	90.8	116778	2.20
Permanent bed		308.9	89.9	118312	2.48
C.D. (5%) Ai-Aj		23.7	2.7	4535.1	0.08
C.V. (%) Error A		5.1	2.3	2.7	2.3
F (5%)		S	NS	S	S
RDF (90:60:30)		360.9	89.6	129392	2.59
SSNM (110:37:31)		396.2	91.4	151125	3.11
60% RDN+GS		314.9	90.0	107560	2.24
C.D. (5%) Bi-Bj		27.1	3.6	6722.8	0.14
C.V. (%) ErrorB		7.4	3.9	5.1	5.1
F (5%)		S	NS	S	S

Table 29: Nutrient management in rice-maize cropping system under different tillage practices in Dholi.

Tillage practices	Nutrient management	Rice grain yield (kg/ha)	Stover yield (kg/ha)	Days of flowering	Days of maturity	Plant height (cm)	Ear height (cm)	Moisture
Zero Tillage	60% RDN + GS	3300	4462	74.7	104.3	81.3	20.3	14.2
	RDF	3014	3297	76.0	106.3	75.0	18.7	14.0
	SSNM	3388	3949	77.3	105.3	82.0	19.7	13.0
Conventional Tillage	60% RDN + GS	2926	3850	74.0	103.3	82.3	21.0	14.4
	RDF	3036	3751	75.0	106.0	77.0	18.8	12.6
	SSNM	3058	4343	74.7	108.0	90.3	20.4	13.0
Permanent Bed	60% RDN + GS	3058	3929	75.3	108.0	77.0	20.7	14.2
	RDF	3454	3791	74.0	108.0	81.0	20.1	13.6
	SSNM	3586	3692	74.7	105.0	81.7	20.8	13.0
Location mean		3202.2	3895.9	75.1	106.0	80.9	20.1	13.6
C.D.(5%) AiBj-AiBk		438.2	1170.8	1.8	1.4	5.5	2.3	
C.D.(5%) AiBk-AjBk		392.1	1161.9	1.7	1.7	7.2	2.6	
F(5%)		NS	NS	NS	S	S	NS	
Zero tillage		3234	3902	76.0	105.3	79.4	19.6	13.7
Conventional tillage		3007	3981	74.6	105.8	83.2	20.1	13.3
Permanent bed		3366	3804	74.7	107.0	79.9	20.5	13.6
C.D.(5%) Ai-Aj		163.7	672.5	1.0	1.3	5.7	1.9	
C.V.(%) Error A		3.9	13.2	1.0	1.0	5.4	7.1	
F(5%)		S	NS	S	NS	NS	NS	
60% RDN + GS		3095	4080	74.7	105.2	80.2	20.7	14.3
RDF		3168	3613	75.0	106.8	77.7	19.2	13.4
SSNM		3344	3995	75.6	106.1	84.7	20.3	13.0
C.D.(5%)Bi-Bj		253.0	675.9	1.0	0.8	3.2	1.3	
C.V.(%)ErrorB		7.7	16.9	1.3	0.7	3.8	6.4	
F(5%)		NS	NS	NS	S	S	NS	

****Treatment details not available**

Table 30: Nutrient management in rice-maize cropping system under different tillage practices (Performance of Rice) at Kalyani.

Tillage practices	Nutrient management	Rice grain yield (kg/ha)	Stover yield (kg/ha)	Plant height (cm)	Days to flowering	Days to maturity	Effective tillers/m²	Grains/ panicle	1000-seed weight (g)
Zero Tillage	RDF	5274	7380	110.5	77.7	107.0	243.7	211.7	19.4
	SSNM	5435	7543	110.0	76.3	105.7	258.3	223.8	21.1
	FFP	5123	7114	109.5	77.7	106.7	237.7	204.6	19.2
Conventional tillage	RDF	3788	5721	110.0	76.3	106.7	237.3	200.5	18.8
	SSNM	4318	6249	114.1	77.7	106.7	247.3	210.9	19.4
	FFP	3593	5490	112.8	78.3	106.0	232.3	187.6	18.5
Permanent Bed	RDF	3626	5631	113.3	76.0	106.7	231.3	191.7	18.7
	SSNM	3975	5984	108.3	78.0	106.0	239.3	207.3	19.2
	FFP	3642	5576	108.9	78.0	106.3	217.0	191.3	18.2
Location mean		4308.2	6298.6	110.8	77.3	106.4	238.3	203.3	19.2
C.D.(5%) AiBj-AiBk		784.3	675.2	9.3	2.4	2.5	19.5	14.6	1.3
C.D.(5%) AiBk-AjBk		751.1	663.2	8.1	2.1	3.3	22.2	15.5	1.5
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS
Zero tillage		5277	7346	110.0	77.2	106.4	246.6	213.4	19.9
Conventional tillage		3900	5820	112.3	77.4	106.4	239.0	199.7	18.9
Permanent bed		3748	5731	110.2	77.3	106.3	229.2	196.8	18.7
C.D. (5%) Ai-Aj		400.0	375.5	3.1	0.9	2.7	15.7	10.0	1.1
C.V. (%) Error A		7.1	4.6	2.1	0.9	1.9	5.0	3.8	4.2
F (5%)		S	S	NS	NS	NS	NS	S	NS
RDF		4229	6244	111.3	76.7	106.8	237.4	201.3	19.0
SSNM		4576	6592	110.8	77.3	106.1	248.3	214.0	19.9
FFP		4119	6060	110.4	78.0	106.3	229.0	194.5	18.6
C.D. (5%) Bi-Bj		452.8	389.8	5.4	1.4	1.4	11.3	8.4	0.7
C.V. (%) ErrorB		10.2	6.0	4.7	1.7	1.3	4.6	4.0	3.8
F (5%)		NS	S	NS	NS	NS	S	S	S

****Treatment details not available**

Table 31: Nutrient management in maize based rainfed cropping systems under different tillage practices at Srinagar.

Tillage practices	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	100-seed weight (g)
Zero till	GS based	4856	10803	82.0	91.3	233.7	81.0	84.7	22.5
	RDF	5672	13989	83.1	98.0	245.3	82.0	85.3	26.0
	SSNM	5273	13305	81.7	94.3	227.0	80.7	84.3	24.9
Conventional till	GS based	4395	10108	82.3	89.9	218.0	81.3	85.0	23.1
	RDF	5206	11369	82.9	96.2	239.0	83.7	87.3	25.2
	SSNM	5088	10272	82.5	93.8	231.0	82.7	86.0	24.2
Permanent bed	GS based	4327	10559	81.9	88.6	219.0	80.7	88.3	22.8
	RDF	5539	13990	83.1	91.6	245.0	82.3	86.0	25.7
	SSNM	5303	13667	82.6	88.6	229.0	84.0	86.3	24.3
Location mean		5073.1	12006.8	82.4	92.5	231.9	82.0	85.9	24.3
C.D.(5%) AiBj-AiBk		176.3	572.2	0.8	1.2	3.6	1.9	1.6	0.8
C.D.(5%) AiBk-AjBk		223.2	530.3	1.0	1.1	6.5	2.0	1.8	1.0
F(5%)		S	S	NS	S	S	NS	S	NS
Zero tillage		5267	12699	82.2	94.5	235.3	81.2	84.8	24.4
Conventional tillage		4896	10583	82.6	93.3	229.3	82.6	86.1	24.1
Permanent bed		5056	12739	82.5	89.6	231.0	82.3	86.9	24.2
C.D. (5%) Ai-Aj		172.7	255.9	0.7	0.7	5.8	1.2	1.3	0.7
C.V. (%) Error A		2.6	1.6	0.7	0.6	1.9	1.1	1.2	2.3
F (5%)		S	S	NS	S	NS	NS	S	NS
GS based		4526	10490	82.1	89.9	223.6	81.0	86.0	22.8
RDF (120:60:40)		5472	13116	83.0	95.3	243.1	82.7	86.2	25.6
SSNM based on nutrient expert		5221	12415	82.2	92.2	229.0	82.4	85.6	24.4
C.D. (5%) Bi-Bj		101.8	330.4	0.5	0.7	2.1	1.1	0.9	0.5
C.V. (%) ErrorB		2.0	2.7	0.6	0.7	0.9	1.3	1.0	1.9
F (5%)		S	S	S	S	S	S	NS	S

Cont…

Tillage practices	Nutrient management	Net returns (Rs /ha)	B:C ratio	Barrenness in maize (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
Zero till	GS based	80159	1.78	20.0	20.3	12.0	11.5	35.7
	RDF	124978	2.68	10.9	22.2	15.2	13.6	45.1
	SSNM	122461	2.38	15.6	21.0	13.8	12.2	41.3
Conventional till	GS based	70853	1.54	21.2	19.2	10.9	10.8	34.9
	RDF	101582	2.39	11.2	21.9	14.4	14.8	44.1
	SSNM	99361	2.19	14.0	20.4	13.0	14.4	46.0
Permanent bed	GS based	61119	1.30	23.8	19.4	11.8	11.0	36.0
	RDF	100430	2.28	10.5	21.5	14.3	14.1	45.3
	SSNM	100015	2.15	20.1	20.8	11.9	13.2	42.9
Location mean		95661.9	2.08	16.4	20.7	13.0	12.8	41.2
C.D.(5%) AiBj-AiBk		1587.9	0.10	1.0	0.7	0.9	0.5	1.5
C.D.(5%) AiBk-AjBk		1830.0	0.13	0.9	1.0	0.7	0.8	1.6
F(5%)		S	S	S	NS	S	S	S
Zero tillage		109199	2.28	15.5	21.2	13.7	12.4	40.7
Conventional tillage		90599	2.04	15.5	20.5	12.8	13.3	41.7
Permanent bed		87188	1.91	18.1	20.6	12.7	12.8	41.4
C.D. (5%) Ai-Aj		1310.2	0.10	0.3	0.9	0.2	0.7	1.0
C.V. (%) Error A		1.0	3.6	1.3	3.2	1.2	4.0	1.9
F (5%)		S	S	S	NS	S	S	NS
GS based		70710	1.54	21.7	19.6	11.6	11.1	35.5
RDF (120:60:40)		108997	2.45	10.9	21.9	14.6	14.2	44.8
SSNM based on nutrient expert		107279	2.24	16.5	20.7	12.9	13.3	43.4
C.D. (5%) Bi-Bj		916.8	0.06	0.6	0.4	0.5	0.3	0.9
C.V. (%) ErrorB		0.9	2.8	3.5	2.0	3.8	2.3	2.1
F (5%)		S	S	S	S	S	S	S

Table 32: Nutrient management in maize based rainfed cropping system under different tillage practices at Banswara.

Tillage practices	Nutrient management	Yield of maize (kg/ha)	Cob yield (kg/ha)	Plant height (cm)
Zero tillage	RDF	4900	6686	206.2
	SSNM	5689	7430	228.5
	FFP	3411	4833	193.6
Conventional till	RDF	4333	5853	202.4
	SSNM	4947	6594	221.6
	FFP	2789	3750	190.5
Permanent bed	RDF	4456	6108	203.6
	SSNM	5207	6838	228.1
	FFP	3067	4664	194.4
Location mean		4310.9	5861.9	207.6
C.D.(5%) AiBj-AiBk		752.4	1064.5	12.3
C.D.(5%) AiBk-AjBk		844.5	1311.2	17.4
F(5%)		NS	NS	NS
Zero tillage		4667	6316	209.4
Conventional tillage		4023	5399	204.8
Permanent bed		4243	5870	208.7
C.D. (5%) Ai-Aj		588.3	994.5	14.3
C.V. (%) Error A		10.4	13.0	5.3
F (5%)		NS	NS	NS
RDF (120:60:40)		4563	6216	204.1
SSNM (137:31:41)		5281	6954	226.0
FFP (85:5.75:00)		3089	4416	192.8
C.D. (5%) Bi-Bj		434.4	614.6	7.1
C.V. (%) ErrorB		9.8	10.2	3.3
F (5%)		S	S	S

Table 33: Nutrient management in maize based rainfed cropping systems under different tillage practices at Chhindwara.

Tillage practices	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
Zero tillage	60% RDN	4426	10235	62.4	72.6	195.0	54.3	60.0
	RDF	6018	11332	62.6	82.3	200.3	56.6	61.3
	SSNM	7343	11216	63.5	83.8	215.7	57.7	63.0
Conventional tillage	60% RDN	4768	10022	63.5	79.6	198.3	54.7	59.8
	RDF	6241	13425	64.7	80.5	205.9	56.7	61.8
	SSNM	7322	13084	65.1	81.3	212.5	58.7	63.1
Permanent bed	60% RDN	4458	9055	60.7	71.0	195.3	55.7	59.0
	RDF	6025	10145	61.2	74.8	205.3	57.5	62.0
	SSNM	7079	11251	61.7	78.0	210.6	59.2	62.7
Location mean		5964.3	11085.0	62.8	78.2	204.3	56.8	61.4
C.D.(5%) AiBj-AiBk		688.0	1073.8	5.5	8.3	20.5	3.9	4.2
C.D.(5%) AiBk-AjBk		771.6	993.3	6.5	11.7	18.9	6.0	5.9
F(5%)		NS	S	NS	NS	NS	NS	NS
Zero tillage		5929	10928	62.8	79.5	203.6	56.2	61.4
Conventional tillage		6111	12177	64.5	80.4	205.5	56.7	61.6
Permanent bed		5854	10150	61.2	74.6	203.7	57.5	61.2
C.D.(5%) Ai-Aj		536.9	476.3	4.8	9.7	8.9	5.1	4.8
C.V.(%) Error A		6.9	3.3	5.9	9.5	3.3	6.9	6.0
F(5%)		NS	S	NS	NS	NS	NS	NS
60% RDN +GS* based (60:30:20)		4551	9771	62.2	74.4	196.2	54.9	59.6
RDF (120:60:40)		6094	11634	62.9	79.2	203.8	56.9	61.7
SSNM (140:34:71)		7248	11850	63.4	81.0	212.9	58.5	62.9
C.D.(5%)Bi-Bj		397.2	620.0	3.2	4.8	11.8	2.3	2.4
C.V.(%)ErrorB		6.5	5.4	4.9	6.0	5.6	3.9	3.9
F(5%)		S	S	NS	S	S	S	S

Cont…

Tillage practices	Nutrient management	Net Return (Rs./ha)	BC ratio	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
Zero tillage	60% RDN	44736	1.89	16.1	15.3	12.7	24.9
	RDF	80371	1.93	18.0	16.0	13.1	25.6
	SSNM	112961	2.32	18.1	15.8	13.9	28.8
Conventional tillage	60% RDN	45849	1.85	18.1	16.9	13.3	26.7
	RDF	76868	2.01	18.1	16.4	14.0	26.8
	SSNM	111184	2.36	18.0	17.4	14.4	29.0
Permanent bed	60% RDN	38858	1.82	16.0	15.9	12.3	25.0
	RDF	70953	2.05	16.8	16.6	12.4	26.0
	SSNM	97375	2.40	19.0	17.0	13.1	26.5
Location mean		75461.7	2.1	17.6	16.3	13.2	26.6
C.D.(5%) AiBj-AiBk		8241.9	0.2	1.9	1.1	1.9	3.0
C.D.(5%) AiBk-AjBk		7840.2	0.2	1.6	1.1	1.9	2.6
F(5%)		NS	NS	NS	NS	NS	NS
Zero tillage		79356	2.04	17.4	15.7	13.2	26.4
Conventional tillage		77967	2.07	18.1	16.9	13.9	27.5
Permanent bed		69062	2.09	17.3	16.5	12.6	25.8
C.D.(5%) Ai-Aj		4100.8	0.04	0.4	0.7	1.1	0.8
C.V.(%) Error A		4.2	1.6	1.8	3.2	6.5	2.4
F(5%)		S	NS	S	S	NS	S
60% RDN +GS* based (60:30:20)		43148	1.85	16.7	16.0	12.8	25.5
RDF (120:60:40)		76064	2.00	17.6	16.3	13.2	26.1
SSNM (140:34:71)		107173	2.36	18.4	16.7	13.8	28.1
C.D.(5%)Bi-Bj		4758.4	0.13	1.1	0.7	1.1	1.7
C.V.(%)ErrorB		6.1	6.3	6.1	3.9	8.0	6.3
F(5%)		S	S	S	NS	NS	S

Table 34: Long-term trial on integrated nutrient management in maize system at Srinagar.

Treatments	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	3858	9410	82.9	87.8	204.0	80.3	83.7	20.6
T_2	6858	13861	82.8	96.7	219.0	87.3	90.3	24.0
T_3	6086	14282	82.4	97.4	228.0	86.3	89.3	24.4
T_4	4935	11356	82.6	94.6	241.0	85.7	89.3	25.0
T_5	4233	10628	82.3	91.1	212.0	82.0	84.0	21.3
T_6	5964	14241	81.5	99.3	235.7	88.7	92.7	24.5
T_7	6901	15390	82.9	101.2	241.7	87.0	89.7	24.8
T_8	6351	14600	82.6	98.6	223.3	87.0	90.7	25.1
T_9	5166	13562	82.8	98.9	226.0	85.0	87.7	23.4
T_{10}	6723	14276	82.7	96.5	214.3	80.0	83.0	23.0
T_{11}	4171	9997	82.6	91.0	199.7	81.7	84.7	21.2
Mean	5567.8	12873.0	82.6	95.7	222.2	84.6	87.7	23.4
CD	134.0	517.9	0.9	2.8	11.2	3.2	3.2	1.0
CV (%)	1.4	2.4	0.7	1.7	2.9	2.2	2.1	2.6
Significance	S	S	NS	S	S	S	S	S

Treatments	Net returns (Rs./ha)	B:C ratio	Barrenness in maize (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
T_1	81816	1.33	30.3	16.5	10.2	9.5	26.4
T_2	116229	2.31	13.1	21.2	13.9	13.4	41.4
T_3	106764	2.43	12.3	20.3	12.3	11.3	40.2
T_4	98896	1.85	11.5	20.7	14.5	10.8	40.3
T_5	104693	2.13	16.7	17.5	9.6	9.9	35.2
T_6	134499	2.11	20.1	20.9	11.2	10.4	37.6
T_7	142767	2.61	11.7	21.4	14.0	14.9	47.8
T_8	127385	2.68	11.7	21.4	12.9	13.6	43.2
T_9	130018	2.74	12.6	21.0	11.1	12.8	39.8
T_{10}	110310	1.93	11.6	19.8	10.5	9.0	31.7
T_{11}	101595	1.37	14.9	16.9	9.8	8.1	26.4
Mean	114088.4	2.14	15.1	19.8	11.8	11.2	37.3
CD	10872.0	0.19	1.1	1.5	1.1	1.2	1.9
CV (%)	5.6	5.2	4.2	4.4	5.6	6.3	2.9
Significance	S	S	S	S	S	S	S

Table 35: Long-term trial on integrated nutrient management in maize system at Pantnagar.

Treatments	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	4024	6230	83333	78889	211.7	56.0	60.3	24.7
T_2	5652	7667	83333	80444	233.3	53.3	57.3	35.9
T_3	5033	7167	83333	79556	222.8	56.0	59.7	31.2
T_4	4635	6788	83333	78889	223.3	55.7	59.3	26.6
T_5	4478	6500	83333	80000	220.0	54.7	58.7	27.5
T_6	4845	7111	73111	79778	212.8	55.3	59.3	29.8
T_7	6209	8878	83333	82666	231.1	52.7	56.7	38.4
T_8	5884	8194	83333	80444	227.2	55.7	59.3	35.9
T_9	5350	7478	83333	80222	222.2	55.7	59.7	34.3
T_{10}	5902	7817	83333	82444	230.0	52.7	56.7	36.2
T_{11}	4279	6442	82222	78222	212.2	56.7	60.3	25.9
Mean	5117.3	7297	82303	80141	222.4	54.9	58.9	31.5
CD	568.0	742.06	3403.3	2563	NS	0.70	0.87	1.50
CV (%)	6.52	5.97	2.43	1.88	5.11	0.75	0.87	2.80

Treatments	Weed count/m²			Dry matter of weed/m² (g)			EC	pH	OC (%)
	Grassy	Sedges	Broad leaves	Grassy	Sedges	Broad leaves			
T_1	64.00	12.33	6.00	361	0.32	0.77	0.160	7.22	0.810
T_2	62.67	11.00	7.33	358	0.27	0.67	0.190	7.20	0.990
T_3	59.33	9.00	7.00	350	0.26	0.77	0.180	7.15	0.880
T_4	52.33	6.33	4.00	335	0.21	0.47	0.160	7.14	0.840
T_5	36.67	5.33	4.00	215	0.15	0.60	0.120	6.94	1.140
T_6	26.67	2.67	2.00	158	0.08	0.27	0.100	6.86	1.190
T_7	50.33	9.00	5.67	280	0.20	0.70	0.160	7.06	1.110
T_8	49.00	3.67	4.67	336	0.08	0.50	0.140	7.13	1.050
T_9	42.00	5.00	3.67	268	0.11	0.57	0.110	7.01	1.010
T_{10}	60.33	10.00	6.33	346	0.28	0.90	0.150	7.10	1.010
T_{11}	65.33	12.00	7.67	361	0.26	1.33	0.120	6.97	0.890
Mean	51.70	7.85	5.30	306	0.20	0.68	0.140	7.07	0.990
CD	3.710	2.392	2.128	13.347	0.067	0.286	0.0382	0.1439	0.0592
CV (%)	4.21	17.9	23.56	2.56	19.39	24.53	15.52	1.19	3.5

Treatment	Nutrient uptake (kg/ha)				Available nutrient (kg/ha)				Net returns (Rs./ha)	B:C ratio
	N	P	Zn	K	N	P	K	Zn		
T_1	88.3	13.9	0.18	35.9	159.2	18.2	138.0	0.380	44147	1.65
T_2	129.5	24.2	0.29	63.6	183.0	27.7	154.8	0.430	65635	1.94
T_3	116.7	20.1	0.26	55.7	173.3	22.7	147.8	0.420	56538	1.76
T_4	100.3	17.3	0.24	48.0	165.1	20.2	143.6	0.410	51318	1.70
T_5	106.2	15.4	0.23	44.2	164.0	19.2	145.2	0.390	47564	1.52
T_6	116.1	16.5	0.25	45.4	171.4	21.9	147.4	0.420	68218	2.06
T_7	158.5	28.8	0.40	76.4	191.3	31.0	162.3	0.460	70439	1.82
T_8	136.0	25.9	0.36	73.3	181.2	28.0	155.1	0.430	66521	1.79
T_9	117.9	21.6	0.33	66.9	176.1	24.6	144.9	0.420	58908	1.67
T_{10}	133.1	23.2	0.45	67.9	183.2	26.6	151.8	0.530	68666	1.95
T_{11}	100.1	15.0	0.21	42.4	163.2	19.7	143.4	0.390	48204	1.78
Mean	118.42	20.18	0.29	56.34	173.71	23.61	148.6	0.420	58742	1.79
CD	8.45	1.75	0.03	5.15	6.98	2.01	4.18	0.0179	10062	NS
CV (%)	4.2	5.1	5.4	5.4	2.4	5.0	1.7	2.5	10.06	10.17

Table 36: Long-term trial on integrated nutrient management in maize at Coimbatore.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	100-seed weight (g)
T_1	3476	6283	62.8	61.3	253.4	30.4
T_2	7319	12553	63.3	61.1	259.2	38.1
T_3	6844	11483	64.2	61.1	257.1	36.8
T_4	5956	9775	63.1	60.8	255.7	35.8
T_5	4363	7233	64.0	61.7	253.9	32.3
T_6	4814	7374	62.8	61.0	255.0	32.3
T_7	7392	12803	62.6	61.0	261.5	38.7
T_8	6918	11684	63.5	61.5	257.9	36.9
T_9	6043	10001	63.7	62.0	256.0	36.2
T_{10}	7346	12641	64.2	61.7	260.4	38.3
T_{11}	3821	6442	63.3	61.3	253.5	32.1
Mean	5844.7	9842.9	63.4	61.3	256.7	35.3
CD	806.4	1262.3	3.5	2.5	15.4	3.1
CV (%)	8.1	7.5	3.2	2.4	3.5	5.2
Significance	S	S	NS	NS	NS	S

Treatment	Net return (Rs./ha)	B:C ratio	Cob length (cm)	Cob girth (cm)	Grains/row	Grain rows/cob
T_1	18429	1.46	17.4	13.3	32.9	14.3
T_2	73412	2.50	21.6	16.1	35.8	14.8
T_3	67213	2.43	21.2	16.0	34.7	14.5
T_4	54147	2.21	19.6	15.8	34.0	14.5
T_5	24145	1.50	18.4	13.7	33.5	14.3
T_6	30171	1.61	18.5	13.7	33.7	14.3
T_7	71007	2.35	22.3	16.3	35.9	14.9
T_8	64774	2.28	21.3	16.0	35.3	14.7
T_9	51928	2.07	19.8	15.9	34.1	14.5
T_{10}	72239	2.43	22.0	16.2	36.4	14.9
T_{11}	18993	1.42	17.8	13.4	33.2	14.3
Mean	49678.0	2.02	20.0	15.1	34.5	14.5
CD	11934.5	0.25	2.4	1.3	3.7	1.0
CV (%)	14.1	7.2	7.1	5.1	6.2	4.0
Significance	S	S	S	S	NS	NS

Table 37: Long-term trial on integrated nutrient management in maize system at Dharwad.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha) at 30 DAS	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)
T_1	1546	2680	81.0	66.8	129.2	48.7	54.3	22.6
T_2	6207	7393	81.1	81.1	168.2	49.7	56.0	33.5
T_3	5445	6543	81.1	80.0	162.9	51.7	56.7	32.3
T_4	4624	5950	80.6	76.4	149.0	51.3	54.7	30.7
T_5	5027	6085	81.0	76.6	145.7	52.7	56.7	31.2
T_6	5162	6360	80.6	77.5	160.8	52.0	56.0	31.6
T_7	7169	8148	81.1	81.2	182.1	53.0	58.0	36.3
T_8	6016	6887	80.6	78.2	184.6	51.7	56.7	33.3
T_9	5706	6752	81.1	77.6	163.8	53.3	55.7	33.6
T_{10}	6497	7537	81.3	81.1	179.5	53.0	57.0	34.6
T_{11}	4471	5288	80.5	79.6	147.5	51.3	55.7	31.2
Mean	5260.9	6329.4	80.9	77.8	161.2	51.7	56.1	31.9
CD	914.5	674.8	1.7	6.5	24.9	2.7	3.1	3.4
CV (%)	10.2	6.3	1.3	4.9	9.1	3.0	3.2	6.3
Significance	S	S	NS	S	S	S	NS	S

Treatment	Net returns (Rs./ha)	B:C ratio	Total weeds/m² at 25 DAS	Total weeds dry weight (g/m²) at 25 DAS	FAW damage (%) at 30 DAS	TLB at maturity (1-9 scale)
T_1	16095	1.64	8.6	1.89	2.00	4.33
T_2	77132	3.24	15.4	2.53	1.00	5.00
T_3	66951	3.15	12.8	2.00	1.33	5.33
T_4	55521	2.95	14.4	1.99	1.00	5.67
T_5	55657	2.77	19.6	3.80	0.33	3.33
T_6	59107	2.82	18.7	2.73	1.33	3.67
T_7	83930	3.17	17.2	3.50	1.33	5.33
T_8	80792	3.28	20.0	4.20	1.67	5.67
T_9	81861	3.56	15.7	2.63	0.67	6.33
T_{10}	81353	3.36	10.9	1.60	0.67	6.00
T_{11}	43163	2.57	12.1	3.57	1.00	4.67
Mean	63778.5	2.95	15.0	2.77	1.12	5.03
CD	11558.9	0.39	9.5	2.18	1.50	1.56
CV (%)	10.6	7.7	37.2	46.2	78.6	18.2
Significance	S	S	NS	NS	NS	S

Table 38: Long-term trial on integrated nutrient management in maize at Karimnagar.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Ear height (cm)	Days to 50% tasseling	Days to 50% silking
T_1	3223	5989	4309	76.9	155.7	80.3	55.7	59.0
T_2	8331	11631	10558	78.6	180.0	92.7	52.7	55.7
T_3	7129	10885	9253	75.0	173.0	99.0	54.3	57.7
T_4	6440	10590	8308	75.5	165.3	90.7	55.7	59.3
T_5	3225	8385	4214	76.2	157.7	81.0	56.3	59.3
T_6	3310	7812	4383	74.0	162.7	82.0	54.7	58.3
T_7	8518	10833	10728	77.6	181.3	99.3	54.0	58.3
T_8	7299	10277	9503	76.2	179.0	96.3	52.3	56.0
T_9	6311	9895	8249	73.8	178.3	96.0	52.7	56.3
T_{10}	8566	12187	10820	75.0	180.7	112.7	55.3	59.0
T_{11}	3474	6145	4589	74.1	159.0	80.3	54.7	57.3
T_{12}	7978	10659	10057	76.7	184.0	98.3	52.7	55.3
Mean	6150.5	9607.3	7914.3	75.8	171.4	92.4	54.3	57.6
CD	834.9	1713.7	944.5	6.0	13.7	15.2	1.3	1.7
CV (%)	8.0	10.5	7.0	4.7	4.7	9.7	1.4	1.7
Significance	S	S	S	NS	S	S	S	S

Treatment	Net returns (Rs./ha)	B : C Ratio	Cob length (cm)	Cob diameter (cm)	Grain rows/cob	Grains/row	Shelling (%)	100-Grain weight (g)
T_1	1875	1.03	14.3	3.3	13.1	25.8	74.8	31.8
T_2	89777	2.49	18.3	4.8	14.5	35.2	78.9	35.2
T_3	69161	2.17	16.0	4.7	14.0	30.7	77.1	34.0
T_4	59567	2.06	15.3	3.8	14.1	29.7	77.4	34.0
T_5	-29339	0.66	13.4	4.2	12.9	25.5	76.6	32.7
T_6	-29055	0.67	14.2	4.1	13.9	27.0	75.6	32.0
T_7	77524	2.02	18.4	4.8	14.5	35.2	79.4	38.0
T_8	56585	1.76	16.3	4.7	14.0	30.6	76.8	33.8
T_9	41613	1.58	16.3	4.4	13.8	30.5	76.5	33.3
T_{10}	93260	2.53	18.5	4.8	14.7	35.7	79.1	35.8
T_{11}	-9233	0.87	13.3	4.5	13.7	25.0	75.6	32.8
T_{12}	81852	2.32	18.5	4.7	13.9	34.9	79.3	34.7
Mean	41965.6	1.68	16.1	4.4	13.9	30.5	77.3	34.0
CD	15028.7	0.22	1.8	0.6	1.1	4.3	3.4	2.9
CV (%)	21.1	7.9	6.8	7.8	4.7	8.4	2.6	5.1
Significance	S	S	S	S	NS	S	NS	S

Table 39: Long-term trial on integrated nutrient management in maize system at Ambikapur.

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	2282	5942	54.0	33.1	95.0	56.0	58.3	25.0
T_2	6728	15197	65.1	64.2	229.9	52.3	55.3	28.2
T_3	5646	13057	64.7	63.3	215.9	53.3	56.3	27.4
T_4	5250	12184	64.7	62.2	186.7	54.0	57.0	26.8
T_5	3587	8402	64.2	41.1	118.0	55.0	58.0	25.1
T_6	3618	8452	64.4	44.4	151.2	55.0	58.0	25.3
T_7	7219	16139	65.1	65.1	243.2	52.3	55.3	28.8
T_8	5769	13264	65.3	65.3	221.6	53.3	56.3	27.8
T_9	5794	13444	65.3	64.0	205.4	54.0	57.0	27.1
T_{10}	6180	14029	65.3	63.8	226.6	52.3	55.3	28.0
T_{11}	4322	10076	62.4	60.9	187.2	54.0	57.0	26.7
Mean	5126.8	11835.1	63.7	57.1	189.2	53.8	56.7	26.9
CD	1285.8	2895.5	2.1	3.4	18.6	1.4	1.3	1.4
CV (%)	14.7	14.4	2.0	3.5	5.8	1.5	1.4	3.1
Significance	S	S	S	S	S	S	S	S

Treatment	Net returns (Rs./ha)	B:C ratio	Barrenness in maize (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
T_1	13346	0.59	38.3	10.1	8.8	8.2	20.5
T_2	69442	2.28	2.0	20.3	14.0	14.3	36.3
T_3	55707	1.93	2.0	18.7	13.3	13.2	32.1
T_4	51452	1.88	3.7	15.0	12.4	13.0	27.9
T_5	29174	1.17	35.6	10.1	10.8	9.9	21.2
T_6	29485	1.18	31.0	12.3	11.2	10.0	22.5
T_7	73811	2.24	0.0	20.5	14.2	14.5	36.6
T_8	54852	1.75	0.0	19.4	13.3	13.8	34.4
T_9	57108	1.92	1.4	16.5	12.8	13.2	30.1
T_{10}	60675	1.94	0.7	20.2	14.0	14.3	35.4
T_{11}	34103	1.11	2.3	14.5	12.0	11.9	28.4
Mean	48104.9	1.64	10.6	16.2	12.4	12.4	29.6
CD	19055.8	0.66	5.6	0.9	0.6	1.1	2.4
CV (%)	23.3	23.6	31.1	3.4	3.0	5.1	4.8
Significance	S	S	S	S	S	S	S

Table 40: Long-term trial on integrated nutrient management in maize system at Banswara.

Treatments	Grain yield (kg/ha)	Cob yield (kg/ha)	Cobs ('000/ha)
T_1	2033	2677	35.5
T_2	4867	6464	59.3
T_3	4089	5499	55.4
T_4	3156	4426	46.4
T_5	4489	5965	49.3
T_6	5589	7366	64.1
T_7	5467	7370	64.0
T_8	4778	6220	54.0
T_9	4222	5757	50.7
T_{10}	5000	6524	61.2
T_{11}	3578	4959	49.6
Mean	4297.0	5747.9	53.6
CD	713.1	805.4	12.4
CV (%)	9.7	8.2	13.5
Significance	S	S	S

Table 41: Long-term trial on integrated nutrient management in maize system at Chhindwara.

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
T_1	4556	7672	56.1	53.5	115.3	58.8	60.4
T_2	6005	9870	65.2	63.8	138.7	58.5	59.8
T_3	6120	9974	64.0	64.0	135.6	59.2	60.4
T_4	5271	9016	60.9	62.9	133.0	58.8	59.8
T_5	5104	9084	60.4	62.1	130.3	58.5	59.4
T_6	5033	8056	59.7	61.9	125.9	58.2	59.4
T_7	6905	11957	67.3	65.7	139.0	59.2	59.1
T_8	6385	9426	62.7	64.2	135.0	59.5	59.1
T_9	5532	9680	61.5	63.6	134.0	58.5	60.8
T_{10}	6604	10696	68.5	64.4	140.5	58.8	59.4
T_{11}	4768	7833	58.5	54.1	120.1	58.5	59.8
Mean	5662.1	9387.4	62.2	61.8	131.6	58.8	59.8
CD	480.1	1003.4	7.0	4.8	15.3	5.0	6.4
CV (%)	5.0	6.3	6.6	4.5	6.8	5.0	6.3
Significance	S	S	S	S	S	NS	NS

Cont…

Treatment	Net Return (Rs./ha)	BC ratio	Cob Length (cm)	Cob Girth (cm)	Grains row/cob	Grains/row
T_1	38272	1.71	14.4	14.1	12.8	34.8
T_2	75788	2.01	15.9	15.3	14.4	38.2
T_3	86910	2.27	16.0	15.4	14.8	38.6
T_4	50394	1.89	15.5	14.8	14.1	37.0
T_5	46563	1.85	15.3	14.6	14.0	36.8
T_6	43988	1.81	15.0	14.4	13.8	35.7
T_7	98049	2.41	17.5	16.2	15.1	39.7
T_8	93224	2.31	16.5	15.8	14.8	39.0
T_9	62692	1.97	15.9	15.1	14.3	37.1
T_{10}	93771	2.35	17.2	16.1	15.0	39.1
T_{11}	41155	1.79	14.8	14.2	13.2	35.0
Mean	66436.9	2.03	15.8	15.1	14.2	37.4
CD	5650.1	0.14	1.0	1.2	1.4	3.2
CV (%)	5.0	4.1	3.8	4.7	5.8	5.0
Significance	S	S	S	S	S	S

Treatment details*:
T1 - Unmanured
T2 - 100% RDF
T3 - 75% RDF
T4 - 50% RDF
T5 - FYM 10 t/ha + Azatobactor
T6 - Maize + legume intercropping (for economic produce) with FYM 10 t/ha + Azatobactor
T7 - 100% RDF + 5 t/ha FYM
T8 - 75% RDF + 5 t/ha FYM
T9 - 50% RDF + 5 t/ha FYM
T10 - 100% RDF + 5 kg Zn/ha
T11 - FYM 5 t/ha (state practice)

Table 42: Validation of sensor based nitrogen management in maize at Bajaura.

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	3312	4820	78.9	64.2	179.2	65.3	67.7	25.3
T_2	7055	9652	78.7	72.2	201.4	62.3	64.3	29.3
T_3	9531	14168	79.2	76.4	208.9	61.3	63.3	34.0
T_4	8001	10803	78.7	70.0	199.3	62.0	64.0	31.7
T_5	7439	10460	76.3	74.6	198.5	60.7	62.7	29.3
T_6	7863	11165	78.0	75.0	201.4	60.3	62.3	30.7
T_7	7667	11041	77.8	73.8	198.6	60.0	62.0	31.3
T_8	7182	9655	79.2	72.0	205.4	61.7	63.7	29.3
T_9	7381	9870	78.0	73.1	210.0	62.3	64.3	30.0
T_{10}	6848	9748	77.4	68.3	195.2	63.7	65.7	28.7
T_{11}	6860	9545	78.9	72.0	196.0	63.0	65.0	30.0
T_{12}	9311	13972	78.5	73.1	199.5	61.0	63.0	32.7
Mean	7370.8	10408.2	78.3	72.0	199.5	62.0	64.0	30.2
CD	654.2	1054.2	4.8	4.7	13.4	1.3	1.4	1.9
CV (%)	5.2	6.0	3.6	3.9	4.0	1.2	1.3	3.8
Significance	S	S	NS	S	S	S	S	S

Treatment	Net returns (Rs./ha)	B:C ratio	Barrenness in maize (%)	Cob length (cm)	Grain rows/cob	Grains/row
T_1	36222	1.22	18.7	10.8	12.7	25.0
T_2	102384	2.78	8.8	15.6	13.9	33.8
T_3	138979	2.71	4.5	15.9	14.5	33.3
T_4	118171	2.99	8.8	15.6	14.8	34.9
T_5	108481	2.79	2.9	15.0	14.7	32.3
T_6	116747	2.97	6.7	16.6	14.5	35.2
T_7	113051	2.87	5.3	15.3	14.8	33.0
T_8	101491	2.54	9.9	15.8	14.9	33.2
T_9	107056	2.81	8.7	16.0	14.8	32.7
T_{10}	96870	2.48	7.7	15.2	15.1	32.7
T_{11}	96632	2.47	6.9	14.9	14.1	33.8
T_{12}	145582	3.58	7.7	16.4	14.3	35.0
Mean	106805.5	2.68	8.1	15.3	14.4	32.9
CD	13113.9	0.34	4.3	1.5	1.4	2.7
CV (%)	7.3	7.4	31.4	5.7	5.6	4.9
Significance	S	S	S	S	NS	S

Table 43: Validation of Sensor based nitrogen management in maize at Ludhiana.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Days to 50% tasseling	Days to 50% silking	Plant height (cm)	Barren plants ('000/ ha)	Cob length (cm)	Cob girth (cm)	Grain rows/ cob
T_1	3301	4125	69.4	66.9	61.7	64.7	153.0	2.5	13.3	11.7	12.0
T_2	5477	6847	77.5	75.9	60.0	62.7	202.7	1.6	16.7	13.0	13.4
T_3	6273	8023	79.2	77.3	58.7	60.7	206.7	1.9	17.9	13.5	14.2
T_4	6194	8498	80.3	78.5	59.3	61.3	211.3	1.9	17.6	13.5	13.8
T_5	6137	8363	81.0	79.2	59.0	61.0	212.0	1.9	17.7	13.5	13.8
T_6	5157	6447	77.3	75.7	58.3	60.3	201.3	1.6	17.1	13.2	13.4
T_7	5037	6296	77.1	74.8	58.0	60.0	201.0	2.3	16.5	13.1	13.3
T_8	4803	6005	75.2	73.4	59.0	61.0	197.0	1.9	16.3	13.0	13.3
T_9	4669	5836	74.8	72.7	58.3	60.3	196.3	2.1	16.2	12.7	13.1
T_{10}	5583	6979	78.0	75.9	59.0	61.0	205.3	2.1	17.2	13.3	13.5
T_{11}	5623	7421	78.9	77.1	59.7	61.7	205.7	1.9	17.5	13.2	13.6
T_{12}	5773	9095	77.8	76.2	58.3	60.3	220.3	1.6	17.7	13.5	13.6
Mean	5335.6	6994.6	77.2	75.3	59.1	61.3	201.1	1.9	16.8	13.1	13.4
CD	942.0	1264.1	7.6	8.0	2.8	3.3	30.0	1.2	1.9	0.8	0.9
CV (%)	10.4	10.7	5.8	6.3	2.8	3.2	8.8	36.5	6.7	3.5	3.9
Significance	S	S	NS	NS	NS	NS	S	NS	S	S	S

Table 44: Validation of Sensor based nitrogen management in maize at Pantnagar.

Treatments	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	3541	7778	65.8	65.8	166.9	61.0	65.0	20.1
T_2	5744	11687	64.2	64.2	182.3	53.3	56.7	26.8
T_3	6127	12716	66.7	66.7	187.6	53.7	57.0	27.2
T_4	5667	11605	66.3	66.3	180.7	53.7	57.3	26.5
T_5	5689	11481	66.7	66.7	177.9	53.7	57.3	26.2
T_6	4860	10165	64.6	64.6	172.0	54.0	58.0	24.1
T_7	4926	10453	64.2	64.2	172.4	53.7	57.3	24.2
T_8	4807	10329	64.2	64.2	172.9	53.3	57.0	24.4
T_9	4773	10535	64.2	64.2	171.3	54.0	57.7	24.4
T_{10}	5579	11523	66.7	66.7	177.1	53.3	57.0	25.7
T_{11}	5536	11358	64.6	64.6	177.9	53.3	57.3	25.9
T_{12}	6018	12305	64.2	64.2	186.4	53.7	57.3	27.0
Mean	5272.3	10994.5	65.2	65.2	177.1	54.2	57.9	25.2
CD	618.0	1634.0	3.5	3.5	7.8	0.8	1.2	1.8
CV (%)	6.9	8.8	3.2	3.2	2.6	0.9	1.2	4.2
Significance	S	S	NS	NS	S	S	S	S

Treatments	Net returns (Rs./ha)	B:C ratio	Cob length (cm)	Cob girth (cm)	Grains/cob	N uptake (kg/ha)		
						Grain	Stover	Total
T_1	35657	1.34	12.7	12.2	312.7	37.7	26.3	64.0
T_2	65893	1.87	16.3	13.8	430.1	76.0	47.9	124.0
T_3	61588	1.33	17.0	14.3	453.7	87.5	60.3	147.7
T_4	65506	1.91	16.2	13.8	432.9	74.1	46.4	120.5
T_5	64745	1.83	15.9	13.7	423.5	75.5	47.1	122.6
T_6	50143	1.42	14.8	13.4	390.9	65.0	40.9	105.9
T_7	51167	1.44	15.0	13.3	399.0	65.8	43.4	109.1
T_8	49649	1.42	15.0	13.4	396.5	59.6	36.1	95.7
T_9	48964	1.40	15.0	13.4	391.0	59.7	37.3	96.9
T_{10}	63398	1.82	16.1	13.7	430.0	69.3	37.6	106.8
T_{11}	62559	1.79	16.0	13.7	428.0	68.8	40.7	109.5
T_{12}	68391	1.82	16.7	14.3	449.9	85.3	57.8	143.1
Mean	57304.9	1.62	15.6	13.6	411.5	68.7	43.5	112.2
CD	10876.7	0.31	1.5	0.9	71.5	9.7	9.2	11.5
CV (%)	11.2	11.4	5.6	3.9	10.3	8.4	12.5	6.1
Significance	S	S	S	S	S	S	S	S

Treatments	P uptake (kg/ha)			K uptake (kg/ha)			Residual (kg/ha)		
	Grain	Stover	Total	Grain	Stover	Total	N	P	K
T_1	7.6	7.3	14.9	7.8	53.1	61.0	207.7	15.0	206.3
T_2	17.8	16.4	34.2	18.9	105.0	123.9	249.3	18.4	211.7
T_3	25.6	24.2	49.8	26.0	131.6	157.6	266.7	25.2	235.3
T_4	16.3	13.5	29.8	16.7	99.9	116.6	246.0	18.5	210.3
T_5	16.6	14.2	30.8	17.7	102.7	120.4	246.3	19.3	210.7
T_6	14.2	13.0	27.2	14.8	89.9	104.7	245.7	19.1	213.7
T_7	14.9	13.2	28.1	14.9	96.2	111.1	251.0	19.4	211.7
T_8	13.7	11.3	25.1	13.8	84.2	98.0	233.7	18.3	214.0
T_9	14.3	12.3	26.6	13.3	88.8	102.1	233.0	19.7	212.3
T_{10}	17.0	12.3	29.3	13.6	93.0	106.6	219.0	19.7	212.7
T_{11}	17.2	12.7	29.9	14.9	94.2	109.0	228.7	19.8	213.7
T_{12}	19.3	18.9	38.1	20.2	117.0	137.1	265.3	19.5	213.3
Mean	16.2	14.1	30.3	16.0	96.3	112.3	241.0	19.3	213.8
CD	3.5	6.7	7.7	3.9	19.1	18.6	25.9	2.7	26.0
CV (%)	12.6	27.9	14.9	14.3	11.7	9.8	6.3	8.2	7.2
Significance	S	S	S	S	S	S	S	S	NS

Table 45: Validation of sensor based nitrogen management in maize at 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	1000-seed weight (g)	Net return (Rs/ha)	B:C ratio
T_1	3283	5850	4312	65.7	60.7	188.0	51.3	57.7	242.9	30140	1.10
T_2	6219	10471	7718	66.2	64.0	231.8	47.0	50.7	273.2	75661	2.29
T_3	6785	11219	8368	66.4	65.5	247.1	46.0	49.3	277.7	79723	2.06
T_4	6623	10867	8161	66.2	65.2	240.5	46.3	50.0	276.6	81108	2.35
T_5	5952	10186	7453	65.7	64.8	221.5	47.3	51.7	271.1	71065	2.15
T_6	5337	9993	6828	66.9	65.0	223.1	48.3	53.0	266.8	61007	1.87
T_7	5489	10143	6964	66.7	64.8	228.3	48.0	52.7	268.4	63593	1.95
T_8	5611	9743	7074	66.0	63.6	211.5	49.0	54.0	263.8	65510	2.00
T_9	5742	9886	7208	66.2	64.0	215.9	49.0	53.7	265.4	67784	2.08
T_{10}	6016	10143	7516	64.8	63.6	224.2	47.7	52.0	269.5	72733	2.24
T_{11}	6218	10229	7716	66.9	66.2	229.0	47.0	51.0	272.1	76250	2.36
T_{12}	6501	10843	8034	67.9	66.4	244.2	46.3	50.0	274.2	78614	2.25
Mean	5814.5	9964.3	7279.3	66.3	64.5	225.4	47.8	52.1	268.5	68599.0	2.06
CD	830.7	1492.1	1036.5	6.3	6.6	21.0	2.9	2.8	24.6	14123.4	0.43
CV (%)	8.4	8.8	8.4	5.6	6.0	5.5	3.6	3.2	5.4	12.2	12.2
Significance	S	S	S	NS	NS	S	S	S	NS	S	S

Treatment	Cob length (cm)	Cob breadth (cm)	Grains/ row	Grains row/ cob	Grains/ cob	Total uptake (kg/ha)			Available (kg/ha)		
						N	P	K	N	P	K
T_1	16.8	12.1	30.5	12.0	364.8	64.9	8.4	60.5	259.9	17.8	175.2
T_2	19.3	13.7	37.5	14.2	533.5	133.0	16.5	114.8	277.2	18.2	176.7
T_3	19.8	14.0	38.7	14.7	566.9	145.8	18.3	126.1	286.3	19.7	188.3
T_4	19.5	13.8	38.1	14.4	548.6	141.3	17.8	121.3	281.2	19.1	186.4
T_5	18.9	13.2	36.6	13.7	497.7	126.4	15.6	109.9	262.4	18.4	177.8
T_6	18.1	12.7	34.6	13.0	451.4	114.7	14.2	102.9	263.7	18.8	182.3
T_7	18.3	12.8	35.2	13.1	462.4	118.0	14.6	105.4	262.5	18.6	181.9
T_8	18.7	13.0	35.9	13.3	477.9	117.5	14.3	102.0	272.9	19.1	185.6
T_9	18.8	13.0	36.2	13.4	486.6	120.5	14.7	104.1	264.3	18.9	182.8
T_{10}	18.2	13.4	35.3	13.9	490.0	126.4	15.7	108.5	277.1	18.5	181.5
T_{11}	19.3	13.6	37.3	14.1	529.8	131.0	16.2	112.4	274.0	18.3	176.8
T_{12}	19.4	13.7	37.8	14.3	539.3	138.9	17.4	119.8	287.8	18.2	177.0
Mean	18.8	13.3	36.1	13.7	495.7	123.2	15.3	107.3	272.4	18.6	181.0
CD	1.7	1.2	4.7	1.4	90.4	13.1	2.2	14.1	25.0	1.7	16.4
CV (%)	5.4	5.2	7.8	5.9	10.8	6.3	8.6	7.8	5.4	5.3	5.4
Significance	NS	NS	NS	S	S	S	S	S	NS	NS	NS

Table 46: Validation of Sensor based nitrogen management in maize at Hyderabad.

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
T_1	5664	7037	90.3	74.0	173.0	56.3	58.3
T_2	8291	9167	98.7	83.7	216.3	57.7	60.0
T_3	8293	9940	99.3	86.7	221.0	59.3	61.7
T_4	7728	9097	93.7	80.0	209.0	56.3	59.0
T_5	7916	8975	96.3	82.3	215.7	57.7	60.3
T_6	7775	8327	95.3	83.0	208.3	58.7	60.0
T_7	7983	8317	96.7	84.0	210.7	58.7	61.3
T_8	7929	9317	97.0	85.3	210.0	58.0	60.7
T_9	8066	9353	97.0	85.7	211.7	58.7	60.7
T_{10}	7600	8183	97.3	82.7	205.7	58.3	60.3
T_{11}	7802	8557	98.3	87.7	217.3	57.3	59.3
T_{12}	8468	9117	99.0	90.7	235.7	60.0	62.0
Mean	7793.0	8782.1	96.6	83.8	211.2	58.1	60.3
CD	879.6	1148.3	2.9	5.7	8.8	0.8	1.1
CV (%)	6.7	7.7	1.8	4.0	2.4	0.8	1.1
Significance	S	S	S	S	S	S	S

Treatment	Days to maturity	100-seed weight (g)	Cob length (cm)	Cob Girth (cm)	Grain rows/cob	Grains/row
T_1	96.0	29.3	14.6	13.6	12.5	33.8
T_2	99.0	39.7	17.7	14.7	13.5	37.5
T_3	101.7	42.7	18.5	15.4	14.2	39.6
T_4	97.0	38.0	16.8	14.1	12.9	34.5
T_5	102.0	39.7	17.6	14.8	13.5	35.8
T_6	99.0	37.3	17.4	14.9	13.6	37.5
T_7	99.0	38.0	17.5	15.1	13.3	38.2
T_8	100.0	38.7	18.1	15.1	13.3	38.9
T_9	100.7	39.0	18.3	15.3	13.7	37.3
T_{10}	100.3	39.3	17.9	15.5	13.7	39.1
T_{11}	101.0	40.7	18.4	15.6	13.3	39.4
T_{12}	105.0	43.3	18.7	16.1	14.3	41.7
Mean	100.1	38.8	17.6	15.0	13.5	37.8
CD	2.6	3.2	0.7	0.8	0.4	3.0
CV (%)	1.5	4.8	2.2	3.2	1.8	4.6
Significance	S	S	S	S	S	S

Table 47: Validation of sensor based nitrogen management in maize at Peddapuram.

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
T_1	4258	5284	74.1	72.4	173.7	58.3	61.0
T_2	7843	8776	75.4	73.6	204.3	55.7	58.7
T_3	7369	7912	75.0	72.8	192.3	56.3	59.7
T_4	7445	8016	75.4	74.3	193.3	56.3	59.3
T_5	7533	8314	74.1	72.5	196.7	56.0	59.0
T_6	7044	7657	74.1	73.2	191.3	56.0	59.0
T_7	6906	7535	74.6	72.4	191.0	56.3	59.3
T_8	6436	7253	74.2	73.5	190.3	56.3	59.7
T_9	6319	7125	74.0	73.2	188.7	56.7	60.0
T_{10}	7977	9026	75.0	73.2	208.3	55.3	58.3
T_{11}	8140	9159	75.0	73.1	210.7	55.0	58.0
T_{12}	8670	9764	76.6	74.3	216.3	54.3	57.3
Mean	7161.8	7985.1	74.8	73.2	196.4	56.1	59.1
CD	1095.1	1433.6	4.0	4.6	17.2	1.1	1.0
CV (%)	9.0	10.6	3.2	3.7	5.2	1.2	1.0
Significance	S	S	NS	NS	S	S	S

Treatment	100-seed weight (g)	Net returns (Rs./ha)	B:C ratio	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
T_1	27.3	24895	1.50	14.2	13.1	13.2	28.5
T_2	34.4	79207	2.35	17.4	14.7	14.8	38.2
T_3	32.2	71883	2.24	16.6	14.3	14.4	35.2
T_4	32.3	73204	2.27	16.6	14.4	14.4	35.4
T_5	33.1	74825	2.30	16.7	14.6	14.4	36.3
T_6	31.4	65891	2.13	16.5	14.1	13.9	35.0
T_7	31.2	63145	2.08	16.3	14.0	13.9	34.2
T_8	31.0	55042	1.95	15.7	13.7	13.6	33.4
T_9	30.6	52778	1.90	15.6	13.6	13.5	31.8
T_{10}	35.0	82335	2.42	17.6	14.8	15.1	39.4
T_{11}	35.3	84814	2.45	17.8	15.0	15.2	39.6
T_{12}	36.5	92420	2.54	18.1	15.3	15.5	40.7
Mean	32.5	68370.0	2.18	16.6	14.3	14.3	35.6
CD	3.0	19272.9	0.33	1.1	0.5	0.5	2.9
CV (%)	5.4	16.6	9.0	3.8	2.2	2.1	4.9
Significance	S	S	S	S	S	S	S

Table 48: Validation of sensor based nitrogen management in maize at Udaipur.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants (000/ha)	Cobs (000/ha)	Plant height (cm)	Cob length (cm)	Shelling (%)	Net returns Rs/ha	B:C ratio
T_1	2026	2395	64.7	71.1	150.6	14.2	50.2	10201	0.54
T_2	4326	6723	64.0	70.5	219.1	18.3	79.2	42221	1.82
T_3	4248	6482	63.9	70.4	216.2	18.2	78.3	41414	1.84
T_4	4524	7256	64.0	76.8	220.9	18.5	80.3	46574	2.10
T_5	3640	5189	63.3	69.6	214.2	18.2	75.2	29691	1.22
T_6	3928	5812	63.8	70.1	214.3	17.9	76.3	35490	1.53
T_7	3830	5575	63.8	70.0	213.1	17.8	76.3	34134	1.49
T_8	3696	5351	63.7	69.9	213.3	17.9	76.2	31692	1.36
T_9	3626	5241	63.5	69.7	212.2	17.8	76.3	30555	1.30
T_{10}	3942	5798	64.1	70.2	214.3	18.0	77.3	35523	1.52
T_{11}	4059	6049	64.1	70.3	215.5	18.1	77.7	37303	1.59
T_{12}	4519	7005	64.4	70.7	221.8	18.4	80.3	42730	1.68
Mean	3863.7	5739.7	63.9	70.8	210.5	17.8	75.3	34794.0	1.50
CD	633.2	940.4	3.3	5.4	21.6	1.8	8.3	9460.5	0.41
CV (%)	9.7	9.7	3.0	4.5	6.1	6.0	6.5	16.1	16.0
Significance	S	S	NS	NS	S	S	S	S	S

Treatment	Uptake (kg/ha)			Status of soil (kg/ha) at harvest		
	N	P	K	N	P	K
T_1	39.0	10.3	38.5	270.2	17.5	312.2
T_2	115.7	24.6	101.9	277.5	18.5	311.3
T_3	114.4	23.9	98.6	295.3	18.3	311.6
T_4	126.0	26.0	109.4	290.7	18.3	313.2
T_5	88.4	19.9	80.1	299.5	18.5	314.3
T_6	102.2	21.9	89.0	281.7	18.3	314.3
T_7	98.5	21.0	85.2	275.4	18.5	313.3
T_8	94.1	20.3	82.3	283.6	18.5	314.6
T_9	88.6	19.9	80.4	288.8	18.4	314.6
T_{10}	103.1	21.8	88.6	285.3	18.5	313.4
T_{11}	107.4	22.6	92.3	292.3	18.4	314.2
T_{12}	123.7	25.7	106.3	320.2	18.5	314.6
Mean	100.1	21.5	87.7	288.4	18.4	313.5
CD	17.4	4.0	14.1	19.3	0.8	23.4
CV (%)	10.2	11.0	9.5	3.9	2.5	4.4
Significance	S	S	S	S	NS	NS

Treatments details:

T1 - Control
T2 - RDF (1/3+1/3+/1/3 N splitting at basal, knee high and tasseling)
T3 - STCR (1/3+1/3+/1/3 N splitting at basal, knee high and tasseling)
T4 - Nutrient expert (1/3+1/3+/1/3 N splitting at basal, knee high and tasseling)
T5 - 33% basal N + Green Seeker based N at knee high & tasseling stage
T6 - 60% basal N + Green Seeker based N at knee high
T7 - 70% basal N + Green Seeker based N at knee high
T8 - 60% basal N + Green Seeker based N at tasseling stage
T9 - 70% basal N + Green Seeker based N at tasseling stage
T10 - 30% Basal N + 30% at 25 DAS + Green Seeker based N at tasseling stage
T11 - 35% Basal N + 35% at 25 DAS + Green Seeker based N at tasseling stage
T12 - N rich strip (300:60:40) (1/3+1/3+/1/3 N splitting at basal, knee high and tasseling)

Table 49: Ecological intensification for climate resilient maize based cropping systems at Bajaura.

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
T_1	5204	8580	93.6	93.6	181.1	61.7	63.7
T_2	9590	13297	75.8	76.9	191.9	58.7	60.7
T_3	9198	12584	74.8	75.7	212.7	61.0	63.0
T_4	2863	4508	75.6	75.6	161.6	62.3	64.3
T_5	6875	10270	93.6	94.4	261.8	57.0	59.0
T_6	9104	12687	78.0	79.0	202.6	58.7	60.7
T_7	5602	7359	74.3	74.8	200.7	60.7	62.7
T_8	9506	12891	76.3	78.8	203.2	59.3	61.3
Mean	7242.7	10272.1	80.2	81.1	202.0	59.9	61.9
CD	751.3	1511.2	3.9	4.2	24.7	1.3	1.3
CV (%)	5.9	8.4	2.8	2.9	7.0	1.2	1.2
Significance	S	S	S	S	S	S	S

Treatment	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio	Barrenness in maize (%)	Cob length (cm)	Grain rows/cob	Grains/row
T_1	24.9	71289	2.08	16.7	14.3	12.7	31.8
T_2	29.5	135300	2.49	6.3	16.2	15.1	36.1
T_3	29.5	133200	2.76	6.3	15.2	14.1	34.8
T_4	23.0	19100	0.49	25.0	12.2	12.4	26.9
T_5	29.5	81682	1.47	13.0	16.5	13.7	33.0
T_6	27.5	125819	2.32	6.0	16.1	14.4	34.5
T_7	28.2	56633	1.06	8.0	14.9	14.1	31.5
T_8	29.5	134050	2.51	6.0	15.4	14.8	34.8
Mean	27.7	94634.0	1.90	10.9	15.1	13.9	32.9
CD	2.3	15685.2	0.31	4.6	1.2	1.1	2.6
CV (%)	4.8	9.5	9.3	24.0	4.4	4.5	4.4
Significance	S	S	S	S	S	S	S

Table 50: Ecological intensification for climate resilient maize based cropping systems at Imphal.

Treatments	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
T_1	4673	7663	52.1	50.5	198.7	61.3	65.7
T_2	8537	14349	64.0	66.0	231.0	55.3	57.7
T_3	6504	12182	61.1	60.2	229.4	56.3	59.3
T_4	4970	8238	53.0	50.9	201.8	60.3	63.0
T_5	6312	11880	63.1	64.9	305.4	59.3	63.7
T_6	7520	13200	62.3	62.1	224.9	56.7	60.0
T_7	5484	10347	55.3	54.9	208.6	56.7	59.3
T_8	6122	11608	58.4	58.6	213.9	55.7	57.7
Mean	6265.2	11183.4	58.7	58.5	226.7	57.7	60.8
CD	1577.4	1947.0	6.4	6.2	26.9	2.6	2.3
CV (%)	14.4	9.9	6.2	6.1	6.8	2.5	2.1
Significance	S	S	S	S	S	S	S

Treatments	100-seed weight (g)	Net return (Rs./ha)	BC ratio	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grain/rows
T_1	31.9	46205	2.30	15.8	14.4	14.5	32.4
T_2	35.4	108660	3.27	19.8	17.4	16.9	42.0
T_3	33.4	76811	2.78	17.5	16.7	15.9	39.3
T_4	31.7	56395	2.63	17.0	16.6	14.8	32.9
T_5	28.1	75501	2.85	18.8	15.3	13.5	35.2
T_6	35.4	90294	2.88	18.1	17.0	16.7	39.2
T_7	32.4	60516	2.49	18.3	16.7	15.2	36.1
T_8	33.5	66478	2.43	18.4	16.9	16.1	38.1
Mean	32.7	72607.6	2.70	18.0	16.4	15.5	36.9
CD	3.0	28391.0	0.69	2.0	1.8	2.0	4.2
CV (%)	5.3	22.3	14.7	6.5	6.1	7.3	6.4
Significance	S	S	NS	S	S	S	S

Table 51: Ecological intensification for climate resilient maize based cropping systems at 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	3869	9288	139.9	86.4	172.3	71.0	74.7	20.4
T_2	6923	15488	82.8	101.5	223.7	90.7	94.0	24.8
T_3	6223	14625	82.7	98.5	229.0	85.3	89.0	24.7
T_4	5159	13636	82.6	96.6	240.3	86.0	90.7	24.9
T_5	4120	10839	132.1	91.3	175.3	66.7	71.3	20.7
T_6	5940	14309	82.8	98.6	239.7	89.7	92.7	25.1
T_7	4888	13989	82.5	98.2	241.0	88.0	91.7	25.0
T_8	5647	14286	82.4	99.5	223.7	88.3	92.3	25.0
Mean	5346.0	13307.7	96.0	96.3	218.1	83.2	87.0	23.8
CD	220.7	420.1	2.2	2.1	8.5	2.4	2.6	0.7
CV (%)	2.4	1.8	1.3	1.2	2.2	1.7	1.7	1.8
Significance	S	S	S	S	S	S	S	S

Treatment	Net returns (Rs./ha)	B:C ratio	Barrenness in maize (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
T_1	56527	0.68	30.6	16.0	9.8	8.3	25.0
T_2	142731	2.93	10.7	23.4	14.5	14.7	47.6
T_3	137908	2.87	44.0	20.3	12.2	11.3	35.3
T_4	134185	2.76	11.0	21.0	13.8	12.3	41.7
T_5	61146	0.81	32.7	17.5	9.7	9.2	26.5
T_6	112901	2.47	10.9	21.5	11.2	10.5	39.8
T_7	122282	2.62	11.7	21.6	13.9	14.1	45.8
T_8	121952	2.63	11.6	20.9	12.6	13.6	42.3
Mean	111204.1	2.22	20.4	20.3	12.2	11.8	38.0
CD	2961.4	0.11	34.4	1.8	1.1	1.3	2.1
CV (%)	1.5	2.8	96.4	5.0	5.1	6.4	3.1
Significance	S	S	NS	S	S	S	S

Table 52: Ecological intensification for climate resilient maize based cropping systems at Pantnagar.

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	Days to maturity	100-seed weight (g)
T_1	5974	8282	80889	81778	245	55.7	58.7	108.3	34.4
T_2	6735	9471	82000	83333	249	54.0	57.0	107.7	38.4
T_3	6555	9138	81333	83333	248	55.3	58.3	108.0	36.6
T_4	5306	7469	80889	80445	237	56.7	60.0	110.7	27.6
T_5	5896	8255	80222	80445	242	55.7	59.3	109.3	33.3
T_6	5285	7371	80667	80667	241	56.0	59.0	108.3	28.8
T_7	5492	8040	81333	81778	244	55.7	59.3	109.7	30.2
T_8	6094	8500	81333	81778	244	55.3	58.7	108.7	33.8
Mean	5917	8316	81083	81694	244	55.5	58.8	108.8	32.9
CD	688.1	832.2	NS	NS	NS	0.87	1.05	1.3	1.40
CV (%)	6.64	5.71	1.49	1.66	2.41	0.89	1.02	0.7	2.43

Treatment	Net returns (Rs./ha)	B:C ratio	Barrenness in maize (plants/ha)	Cob length (cm)	Total uptake (kg/ha)			Available (kg/ha)		
					N	P	K	N	P	K
T_1	77291	2.78	444	14.87	144.6	27.7	71.6	177.5	20.8	148.0
T_2	83321	2.37	0	15.57	159.4	30.2	75.5	185.1	23.7	157.4
T_3	83384	2.61	0	15.23	152.4	26.6	72.5	178.4	21.5	150.7
T_4	61308	1.91	667	13.93	123.3	21.3	54.9	172.9	19.1	149.1
T_5	67304	1.85	445	14.43	145.7	23.6	67.0	178.8	19.6	150.5
T_6	57807	1.64	444	13.80	134.2	21.1	54.4	183.9	22.1	153.8
T_7	63195	1.89	0	14.20	139.2	24.7	56.1	176.5	19.9	151.5
T_8	72040	2.04	445	14.47	153.1	26.1	63.4	181.8	21.5	154.1
Mean	70706	2.14	306	14.56	144.0	25.2	64.42	179.4	21.0	151.9
CD	12111	0.368	-	0.845	6.8	1.7	3.4	7.1	NS	NS
CV (%)	10.1	9.9	-	3.31	2.7	3.9	4.5	2.3	8.4	2.1

Treatments	Weed count/m²			Dry matter of weed/m²			EC	pH	OC (%)
	Grassy	Sedges	Broad leaves	Grassy	Sedges	Broad leaves			
T_1	62.33	9.00	6.33	230	0.43	56.67	0.120	7.08	0.820
T_2	45.67	5.67	4.00	165	0.32	46.33	0.140	7.18	0.950
T_3	56.33	3.00	5.00	172	0.12	43.33	0.140	7.17	0.880
T_4	58.33	5.00	3.00	171	0.43	19.00	0.140	7.10	0.820
T_5	37.67	2.33	4.00	166	0.24	29.67	0.160	7.13	0.880
T_6	36.00	4.00	2.00	144	0.31	19.33	0.170	7.18	0.800
T_7	66.33	7.67	9.33	174	0.43	50.67	0.120	7.16	0.880
T_8	63.00	3.00	8.00	233	0.23	47.00	0.150	7.16	0.870
Mean	53.21	4.96	5.21	182	0.31	39.00	0.140	7.14	0.860
CD	12.09	2.43	2.53	30	NS	24.18	0.028	NS	NS
CV (%)	12.98	27.96	27.75	10	38.65	35.40	11.270	0.57	5.860

Table 53: Ecological intensification for climate resilient maize based cropping systems at Karnal.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Cobs ('000/ ha)	Plant height (cm)	Days to 50% tasselin g	Days to 50% silking	Days to maturity	100-seed weight (g)	Shelling (%)	Net returns (Rs. /ha)	B:C ratio
T_1	7446	10427	71.0	186.0	52.3	54.3	85.7	29.5	82.3	99905	3.55
T_2	8576	11715	70.9	192.3	51.7	53.7	85.3	30.7	83.0	126745	4.88
T_3	7988	10621	71.1	184.0	55.0	57.0	84.7	29.0	82.3	109595	3.80
T_4	4322	5892	62.7	161.3	59.0	62.3	88.0	19.5	75.7	54657	3.24
T_5	4051	15191	57.3	202.3	55.0	57.0	88.7	21.7	65.0	44052	2.30
T_6	7059	10120	69.4	184.0	54.7	56.7	86.3	28.5	78.3	101920	4.38
T_7	1428	3624	39.9	142.3	58.7	60.7	86.7	20.0	61.2	2154	1.09
T_8	5424	9279	66.9	185.3	54.3	56.3	85.7	29.1	82.0	70941	3.28
Mean	5786.8	9608.6	63.6	179.7	55.1	57.3	86.4	26.0	76.2	76246.2	3.31
CD	645.6	1509.6	2.5	5.9	1.6	1.5	1.1	1.5	2.6	11900.3	0.36
CV (%)	6.4	9.0	2.2	1.9	1.6	1.5	0.7	3.3	1.9	8.9	6.1
Significance	S	S	S	S	S	S	S	S	S	S	S

Table 54: Ecological intensification for climate resilient maize based cropping systems at Ludhiana.

Treatments	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 (gm)	Net returns (Rs/ha)	BC ratio
T_1	6030	8652	74.7	73.7	198.7	56.7	59.3	27.2	70016	1.63
T_2	6714	9335	78.8	78.0	211.3	56.0	58.3	27.9	80261	1.78
T_3	6171	9012	75.7	74.7	208.7	57.0	59.7	27.4	70631	1.57
T_4	4762	5696	69.3	67.6	165.0	59.3	62.7	21.4	44903	1.05
T_5	4935	6284	72.0	70.5	188.3	57.7	60.7	25.0	48555	1.13
T_6	5373	6987	74.1	72.8	192.3	58.7	61.3	21.7	55579	1.26
T_7	4575	5220	68.1	66.3	150.0	58.0	60.7	19.5	41155	0.96
T_8	5698	8120	74.5	73.1	197.3	57.3	60.0	27.2	62874	1.44
Mean	5532.4	7413.2	73.4	72.1	189.0	57.6	60.3	24.7	59246.9	1.35
CD	1046.4	1420.5	4.9	4.9	33.4	2.1	2.4	3.0	17216.8	0.39
CV (%)	10.8	10.9	3.8	3.9	10.1	2.0	2.3	6.9	16.6	16.6
Significance	S	S	S	S	S	NS	S	S	S	S

Table 55: Ecological intensification for climate resilient rice-maize cropping system at Bhubaneswar.

Treatment	Grain yield of rice (kg/ha)	Straw yield (kg/ha)	Effective tillers/m_2	Days to maturity	Grains/ panicle	1000-grain weight (g)	Days to flowering	Net returns (Rs./ha)	BC ratio
T_1	3706	4704	207.3	132.3	176.0	22.3	102.7	26756	1.70
T_2	4869	6524	239.0	133.7	214.3	23.6	104.0	40451	1.90
T_3	4339	5960	220.7	133.7	192.3	22.6	102.3	35228	1.84
T_4	3585	4653	199.7	134.3	164.3	22.6	102.7	23492	1.60
T_5	3789	4895	212.7	133.0	200.7	22.5	102.7	27296	1.70
T_6	3906	5730	223.0	133.3	200.3	23.0	103.3	33621	1.78
T_7	3721	4658	207.3	133.3	174.0	22.0	102.7	25651	1.66
T_8	4005	4838	219.0	132.3	204.7	22.6	103.3	27868	1.66
Mean	3989.9	5245.3	216.1	133.3	190.8	22.6	103.0	30045.5	1.73
CD	165.8	339.8	9.7	2.2	12.7	0.4	2.5	3088.9	0.08
CV (%)	2.4	3.7	2.6	0.9	3.8	1.1	1.4	5.9	2.5
Significance	S	S	S	NS	S	S	NS	S	S

Table 56: Ecological Intensification for climate resilient maize based cropping system at Chitrakoot.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Cob Yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Days to maturity	100-seed weight (g)
T_1	2604	7877	4519	66.7	237.6	56.0	61.0	83.7	28.6
T_2	4853	12068	8796	85.2	248.5	57.3	61.3	92.3	34.5
T_3	4370	11451	7593	81.5	254.4	56.7	60.0	93.0	33.6
T_4	3798	11080	7160	77.8	249.5	56.7	60.7	93.0	35.2
T_5	2989	7580	5901	74.1	273.7	54.0	60.0	83.7	29.9
T_6	3989	11981	6883	87.0	252.0	56.7	62.0	91.3	34.5
T_7	3372	10957	5864	83.3	251.6	56.7	61.3	92.3	34.7
T_8	3504	11944	6327	77.8	258.0	56.0	60.7	92.3	34.7
Mean	3685.0	10617.2	6630.4	79.2	253.2	56.3	60.9	90.2	33.2
CD	813.6	1266.9	1723.4	10.0	9.2	2.2	1.4	1.7	2.0
CV (%)	12.6	6.8	14.8	7.2	2.1	2.2	1.3	1.1	3.4
Significance	S	S	S	S	S	NS	NS	S	S

Treatments	Net return (Rs./ha)	B:C ratio	Grains/cob	Cob weight/plant (g)	Shelling (%)	Seed moisture (%)	Weeds count /m^2 at 20 DAS	Weed dry weight at 20 DAS
T_1	40650	3.10	355.7	146.1	69.4	30.3	170.7	22.1
T_2	71581	2.90	415.1	197.3	70.6	33.1	150.0	34.1
T_3	62331	2.70	390.7	193.3	73.3	33.1	123.0	32.9
T_4	54726	2.69	385.7	193.7	73.9	33.1	140.0	37.4
T_5	37494	2.25	344.1	148.1	67.2	31.1	159.0	24.6
T_6	54209	2.44	388.5	192.3	75.0	33.9	145.0	18.2
T_7	42794	2.20	422.9	189.3	74.5	34.4	166.7	20.7
T_8	48209	2.42	424.8	195.3	72.6	34.2	131.0	14.2
Mean	51499.4	2.59	391.0	182.0	72.1	32.9	148.2	25.5
CD	16636.9	0.49	71.2	30.2	14.2	1.8	16.4	14.9
CV (%)	18.4	10.7	10.4	9.5	11.2	3.2	6.3	33.4
Significance	S	S	NS	S	NS	S	S	S

Table 57: Ecological Intensification for climate resilient maize based cropping system at Dholi.

Treatment	Rice grain yield (kg/ha)	Straw yield (kg/ha)	Days to flowering	Days to maturity	Plant height (cm)	Ear height (cm)
T_1	4632	6840	82.0	121.0	85.6	27.0
T_2	4983	7960	86.0	125.0	88.3	28.6
T_3	4520	6520	83.0	120.0	87.7	26.8
T_4	4390	6773	84.0	122.3	85.8	25.9
T_5	3817	5750	84.0	121.3	85.0	25.9
T_6	4713	6833	83.0	122.0	86.7	25.8
T_7	4810	6913	83.0	123.0	86.3	25.3
T_8	4813	7113	84.0	122.0	87.3	27.1
Mean	4584.9	6837.9	83.6	122.1	86.6	26.6
CD	904.8	885.3	2.6	2.1	2.4	1.6
CV (%)	11.3	7.4	1.8	1.0	1.6	3.5
Significance	NS	S	NS	S	NS	S

Table 58: Ecological intensification for climate resilient maize based cropping system at Kalyani.

Treatments	Roce grain yield (kg/ha)	Straw yield (kg/ha)	Days to flowering	Days to maturity	Grains/ panicle	1000-grains weight (g)	Effective tillers/m²
T_1	2750	4593	90.0	118.0	174.9	18.8	207.7
T_2	4076	5983	85.3	112.7	267.3	21.3	215.0
T_3	3050	5366	87.0	115.7	219.3	19.7	203.3
T_4	2858	4791	85.7	114.3	182.2	19.2	210.0
T_5	3094	5123	89.7	120.0	212.6	20.1	202.0
T_6	3450	5425	85.7	114.0	238.3	20.8	212.7
T_7	3388	5374	85.0	113.7	232.6	20.0	201.0
T_8	2916	5077	85.0	114.7	207.9	19.5	197.3
Mean	3197.5	5216.6	86.7	115.4	216.9	19.9	206.1
CD	507.5	483.1	2.3	2.3	26.8	0.7	7.3
CV (%)	9.1	5.3	1.5	1.1	7.1	2.1	2.0
Significance	S	S	S	S	S	S	S

Treatments	Net return (Rs./ha)	B:C Ratio	pH of soil after rice harvest	Organic carbon (%) after rice	Total uptake (kg/ha)		
					N	P	K
T_1	30686	1.72	7.08	0.497	91.7	30.0	129.3
T_2	64523	2.49	7.35	0.657	119.5	42.2	168.7
T_3	38246	1.88	7.13	0.510	110.3	34.3	146.0
T_4	33595	1.79	7.17	0.463	92.3	31.6	136.1
T_5	39108	1.90	7.23	0.503	93.5	31.6	138.1
T_6	48315	2.11	7.17	0.580	102.6	34.7	147.9
T_7	46712	2.08	7.07	0.507	94.6	32.0	136.4
T_8	34619	1.80	7.18	0.567	93.6	31.7	135.0
Mean	41975.5	1.97	7.17	0.535	99.8	33.5	142.2
CD	13082.4	0.30	0.28	0.072	11.4	4.5	19.3
CV (%)	17.8	8.8	2.2	7.7	6.5	7.6	7.8
Significance	S	S	NS	S	S	S	S

Table 59: Ecological intensification for climate resilient maize based cropping systems at Ranchi.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	1000-grain weight (gm)
T_1	4286	7434	5639	54.3	54.2	244.2	289.3
T_2	6607	9952	8119	68.1	64.6	241.0	281.5
T_3	5758	9175	7219	68.2	65.6	229.7	270.1
T_4	5611	8970	7086	66.8	66.3	222.7	264.3
T_5	5138	8450	6520	54.2	53.9	251.5	295.7
T_6	6592	9937	8099	68.3	64.6	240.3	280.8
T_7	5228	8553	6625	65.8	66.4	220.9	260.0
T_8	6208	9699	7718	67.2	64.4	235.9	273.6
Mean	5678.6	9021.3	7128.2	64.1	62.5	235.8	276.9
CD	845.6	1286.6	1077.0	6.4	5.9	22.1	27.6
CV (%)	8.5	8.1	8.6	5.7	5.4	5.4	5.7
Significance	S	S	S	S	S	NS	NS

Treatment	Net return (Rs/ha)	B:C ratio	Cob Length (cm)	Cob Girth (cm)	Grains row/cob	Grains/row	Grains/cob
T_1	42649	1.32	17.4	12.3	12.6	32.7	411.8
T_2	77751	2.08	20.0	14.2	14.9	38.7	556.7
T_3	66884	1.99	19.2	13.7	14.2	36.8	523.6
T_4	61797	1.71	18.2	13.1	13.6	34.9	475.6
T_5	51867	1.37	18.3	13.1	13.5	35.5	476.8
T_6	77486	2.08	19.9	14.1	14.8	38.3	551.4
T_7	56714	1.64	17.9	12.9	13.3	34.2	453.0
T_8	72207	2.00	19.7	14.0	14.6	38.0	539.9
Mean	63419.3	1.77	18.8	13.4	13.9	36.1	498.6
CD	14612.8	0.42	1.7	1.2	1.5	3.6	77.9
CV (%)	13.2	13.5	5.2	5.2	6.0	5.7	8.9
Significance	S	S	S	S	S	S	S

Treatment	Total uptake (kg/ha)			Available (kg/ha) at harvest		
	N	P	K	N	P	K
T_1	92.5	11.4	86.4	281.5	17.9	171.0
T_2	138.9	17.9	123.6	264.8	17.0	173.8
T_3	121.8	15.5	110.3	258.8	17.5	184.3
T_4	114.1	14.6	103.5	277.8	17.7	168.1
T_5	110.1	14.0	100.9	280.2	17.8	176.7
T_6	138.1	17.8	122.8	267.1	17.0	177.9
T_7	109.4	13.6	100.2	275.0	17.8	181.1
T_8	131.3	16.9	118.2	271.4	17.3	182.3
Mean	119.5	15.2	108.2	272.1	17.5	176.9
CD	16.5	2.3	15.0	25.6	2.3	17.3
CV (%)	7.9	8.8	7.9	5.4	7.3	5.6
Significance	S	S	S	NS	NS	NS

Table 60: Ecological intensification for climate resilient maize based cropping systems at Coimbatore.

Treatment	Mungbean grain yield (kg/ha)	Haulm yield (kg/ha)	Pods/ plant	Seeds/ pod	Plant height (cm)	100 seed weight (g)	Net return (Rs./ha)	B:C ratio	Weed density/m² on 25 DAS		
									Grasses	Sedges	BLW
T_1	631	1606	24.9	6.3	45.4	3.5	17332	1.73	67.7	3.0	188.7
T_2	896	1994	30.3	7.7	51.7	4.0	28042	1.94	14.7	3.3	84.3
T_3	854	1932	29.1	7.6	49.9	3.8	25398	1.86	25.3	3.0	110.7
T_4	671	1667	25.9	7.0	47.4	3.6	13872	1.47	59.7	5.7	157.7
T_5	739	1724	27.6	7.1	47.8	3.7	20252	1.74	50.3	5.3	162.3
T_6	825	1891	28.3	7.6	49.3	3.8	23556	1.79	31.7	5.0	116.3
T_7	649	1634	25.3	6.6	46.2	3.6	12933	1.44	64.3	3.3	176.3
T_8	776	1805	27.9	7.3	48.9	3.8	20452	1.69	39.3	3.3	140.7
Mean	755.0	1781.6	27.4	7.2	48.3	3.7	20229.7	1.71	44.1	4.0	142.1
CD	139.2	377.6	3.2	0.7	9.7	0.5	7864.3	0.28	23.2	6.6	47.7
CV (%)	10.5	12.1	6.7	5.7	11.5	7.0	22.2	9.2	30.1	94.7	19.2
Significance	S	NS	S	S	NS	NS	S	S	S	NS	S

Table 61: Ecological intensification for climate resilient maize based cropping systems at Dharwad.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha) at 30 DAS	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
T_1	5427	7214	81.0	79.9	169.0	46.0	51.7
T_2	6869	8291	82.1	81.2	187.4	46.0	52.3
T_3	6247	7520	80.0	79.7	173.8	46.0	51.3
T_4	5568	6785	80.9	80.6	165.8	46.3	51.3
T_5	6238	7304	82.9	79.6	172.6	46.3	51.3
T_6	5916	7282	79.7	79.4	178.1	46.0	50.7
T_7	5329	6953	78.7	78.3	167.7	47.3	52.3
T_8	5440	7017	78.3	78.2	168.7	47.3	52.0
Mean	5879.3	7295.6	80.5	79.6	172.9	46.4	51.6
CD	749.3	965.2	2.4	2.2	13.7	2.6	2.0
CV (%)	7.3	7.6	1.7	1.6	4.5	3.2	2.2
Significance	S	NS	S	NS	NS	NS	NS

Treatment	100-seed weight (g)	Net returns (Rs./ha)	B:C ratio	Total weeds/m² at 25 DAS	Total weeds dry weight (g/m²) at 30 DAS	TLB (1-9 scale)	FAW damage (%) at 30 DAS
T_1	29.3	60621	2.43	35.9	6.09	7.67	1.67
T_2	35.7	82012	2.69	15.1	1.14	3.67	0.67
T_3	30.9	73388	2.62	28.0	4.50	7.00	1.33
T_4	30.9	63294	2.49	30.5	4.00	6.33	1.33
T_5	31.8	76523	2.82	29.0	4.67	6.00	1.33
T_6	32.0	67407	2.50	24.1	3.60	6.67	1.67
T_7	30.4	57747	2.33	33.7	5.40	6.33	1.00
T_8	29.9	60860	2.43	23.2	3.40	6.33	3.00
Mean	31.4	67731.5	2.54	27.4	4.10	6.25	1.50
CD	3.5	14236.7	0.32	12.5	1.58	0.96	1.26
CV (%)	6.3	12.0	7.2	26.0	22.0	8.8	48.0
Significance	S	S	NS	NS	S	S	NS

Table 62: Ecological intensification for climate resilient mungbean maize cropping system at Karimnagar.

Treatment	Mungbean grain yield (kg/ha)	Mungbean green stalk yield (kg/ha)
T_1	937	3430
T_2	895	3361
T_3	1028	3541
T_4	1017	3291
T_5	941	3027
T_6	935	3361
T_7	1015	3374
T_8	1046	3416
Mean	976.7	3350.2
CD	173.9	347.9
CV (%)	10.2	5.9
Significance	NS	NS

Table 63: Ecological intensification for climate resilient maize based cropping systems in Vagarai.

Treatment	Mungbean grain yield (kg/ha)	Straw yield (kg/ha)	Pod yield (kg/ha)	Plants ('000/ ha)	Plant height (cm)	Branches/ plant	Pods per plant	100 seed weight (g)	Pest incidence (%)	Days to flower initiation	Days to maturity
T_1	668	4317	1041	276.0	56.2	5.7	16.2	3.4	43.3	45.3	75.3
T_2	1033	4146	1554	197.1	53.1	8.6	27.2	3.6	23.3	42.7	76.7
T_3	584	4645	942	199.2	51.6	7.3	14.6	2.9	33.3	42.7	75.7
T_4	824	3246	1232	214.3	54.5	5.8	18.4	3.5	30.0	43.7	74.3
T_5	639	3576	1039	245.1	50.3	7.2	22.1	3.5	23.3	42.0	74.3
T_6	570	4539	947	218.7	53.4	7.3	20.8	3.4	23.3	44.0	74.7
T_7	366	1033	675	174.9	56.8	6.8	9.8	2.6	46.7	44.0	74.0
T_8	708	2838	1048	192.7	49.7	7.5	24.4	3.6	56.7	45.0	75.7
Mean	674.2	3542.6	1059.6	214.7	53.2	7.0	19.2	3.3	35.0	43.7	75.1
CD	336.9	1935.1	510.6	34.4	4.4	3.9	13.7	0.6	19.8	4.8	3.0
CV (%)	28.5	31.2	27.5	9.1	4.7	31.5	40.9	10.5	32.3	6.3	2.3
Significance	S	S	NS	S	S	NS	NS	S	S	NS	NS

Treatment	Net returns (Rs./ha)	BC ratio	Weed population (no/m²) at 50 DAS			Weed dry weight (g/m²) at 50 DAS			Total Weed population /m²	Total weed dry weight (g/m²)	Weed control Efficiency (%)
			Broad	Grasses	Sedges	Broad	Grasses	Sedges			
T_1	14975	1.60	1.0	53.3	73.0	2.6	36.6	54.1	127.3	93.3	39.3
T_2	22820	1.58	4.3	0.0	71.7	1.7	0.0	22.3	76.0	24.0	86.1
T_3	10384	1.42	4.7	0.0	57.7	6.2	0.0	19.0	62.3	25.2	83.7
T_4	26534	2.16	2.0	2.0	86.0	2.3	0.8	13.1	90.0	16.2	90.7
T_5	13271	1.53	2.7	0.3	122.7	1.0	0.2	20.3	125.7	21.5	87.1
T_6	-3740	0.90	4.0	0.0	91.0	2.8	0.0	15.7	95.0	18.5	88.9
T_7	-12607	0.64	6.7	29.0	134.7	12.4	93.8	63.0	170.3	169.2	0.0
T_8	4900	1.13	5.3	0.7	35.0	3.3	0.1	12.0	41.0	15.4	90.6
Mean	9567.2	1.37	3.8	10.7	84.0	4.0	16.4	27.4	98.5	47.9	70.8
CD	20213.6	0.76	8.9	61.3	116.4	15.1	68.3	48.2	100.1	36.5	24.5
CV (%)	120.6	31.8	133.2	328.1	79.2	213.3	237.4	100.4	58.0	43.6	19.8
Significance	S	S	NS	NS	NS	NS	NS	NS	NS	S	S

Table 64: Ecological intensification for climate resilient maize based cropping systems at Ambikapur.

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)	Net return (Rs./ha)	B:C ratio
T_1	4498	10698	97.8	93.6	213.2	53.7	56.7	25.1	43825	1.80
T_2	6629	14887	65.8	64.7	240.7	54.7	57.7	27.3	63904	1.86
T_3	5450	12597	64.7	64.0	223.3	54.7	57.7	27.2	47328	1.38
T_4	4099	9673	65.6	65.6	201.7	54.0	57.0	24.3	35989	1.39
T_5	4312	10093	99.1	94.4	211.7	54.0	57.0	25.9	30602	0.89
T_6	6330	14312	65.1	64.9	237.2	54.0	57.0	28.0	59719	1.74
T_7	3260	7847	64.9	64.4	187.0	53.3	56.3	24.2	19610	0.65
T_8	4256	9771	64.7	64.7	230.7	54.0	57.0	26.1	30178	0.90
Mean	4854.1	11234.8	73.4	72.0	218.2	54.0	57.0	26.0	41394.4	1.33
CD	711.9	1619.4	1.6	1.5	8.9	1.1	1.1	1.4	10575.5	0.33
CV (%)	8.4	8.2	1.2	1.2	2.3	1.2	1.1	3.1	14.6	14.1
Significance	S	S	S	S	S	NS	NS	S	S	S

Table 65: Ecological intensification for climate resilient maize based cropping systems at Chhindwara.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plants height (cm)	Days to 50% tasseling	Days to 50% silking
T_1	7095	17353	109.2	112.4	168.5	57.0	59.0
T_2	8096	22085	66.8	66.0	179.2	57.0	59.0
T_3	7625	19936	66.7	65.4	178.1	56.7	58.3
T_4	4525	11876	66.3	63.1	160.7	57.3	59.0
T_5	6016	15108	118.3	113.6	165.8	56.7	58.7
T_6	5847	12410	66.0	63.1	163.7	57.7	58.7
T_7	4185	11010	65.5	62.4	160.1	57.7	59.7
T_8	6492	15962	66.0	62.1	167.0	58.0	59.0
Mean	6235.3	15717.4	78.1	76.0	167.9	57.3	58.9
CD	604.3	1391.5	9.8	9.3	12.8	1.4	1.4
CV (%)	5.5	5.1	7.2	7.0	4.3	1.4	1.4
Significance	S	S	S	S	S	NS	NS

Treatment	Net Return (Rs./ha)	BC ratio	Cob length (cm)	Cob girth (cm)	Grains row/cob	Grains/row
T_1	80402	2.14	16.6	15.4	14.5	39.5
T_2	117822	2.64	17.0	16.7	16.0	43.0
T_3	96234	2.51	16.7	15.8	14.6	40.8
T_4	41288	1.55	15.0	14.1	13.0	36.5
T_5	51923	2.26	16.3	14.8	13.8	38.0
T_6	55905	1.86	16.0	14.3	13.2	37.9
T_7	22764	1.50	14.0	14.0	12.9	35.8
T_8	56744	2.03	16.4	15.0	14.1	38.1
Mean	65385.0	2.06	16.0	15.0	14.0	38.7
CD	7728.9	0.17	1.7	1.7	1.7	3.1
CV (%)	6.7	4.8	6.0	6.5	7.0	4.6
Significance	S	S	S	NS	S	S

Table 66: Ecological intensification for climate resilient maize based cropping system at Udaipur.

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	PFSR affected plants (%)	Net returns (Rs/ha)	B:C ratio
T_1	3328	4702	63.6	69.4	203.3	46.3	50.3	4.37	30094	1.56
T_2	5137	8219	64.5	71.2	211.8	46.7	51.3	2.20	54628	2.33
T_3	4433	6880	62.8	69.2	203.0	45.7	49.7	3.20	45597	2.14
T_4	3145	4687	63.5	69.5	182.6	47.3	51.7	2.20	28460	1.53
T_5	4722	7502	66.3	73.4	218.4	45.0	49.0	3.13	48218	2.06
T_6	5155	8301	63.4	69.5	212.2	46.3	51.0	2.20	55008	2.35
T_7	2040	2685	45.6	50.3	186.7	46.3	51.0	4.10	7299	0.32
T_8	4955	7431	62.6	68.6	210.4	45.7	49.0	3.20	51367	2.24
Mean	4114.5	6301.1	61.5	67.6	203.5	46.2	50.4	3.08	40083.8	1.81
CD	669.5	1003.5	4.1	6.0	25.5	2.8	3.5	0.38	10035.2	0.47
CV (%)	9.3	9.1	3.8	5.1	7.2	3.5	4.0	7.1	14.3	14.7
Significance	S	S	S	S	NS	NS	NS	S	S	S

Treatment	Weed intensity at 40 DAS (0.5 m²)	Weed intensity at harvest (0.5 m²)	Grain yield of wheat crop (kg/ha)	Stover yield of wheat crop (kg/ha)	Days to maturity of wheat crop	Effective tillers of wheat crop (m²)	Test weight (g)	Green gram yield (kg/ha)	Days to maturity of green gram
T_1	30.3	25.6	4263	6400	120.7	205.7	42.6	344.3	90.7
T_2	12.0	10.3	5826	8992	118.0	257.0	52.6	402.7	84.3
T_3	25.3	21.7	5622	8422	118.0	245.7	48.3	376.3	87.7
T_4	25.0	21.7	3176	4135	120.3	185.7	32.9	373.3	91.3
T_5	23.0	19.3	5425	8098	118.0	246.0	50.4	391.7	91.7
T_6	25.7	22.0	3746	5629	109.0	245.7	52.9	173.3	81.0
T_7	201.7	170.0	2725	3276	108.3	175.7	21.6	108.3	86.3
T_8	24.3	24.3	5626	8426	116.7	246.0	48.6	353.7	90.0
Mean	45.9	39.4	4551.4	6672.1	116.1	225.9	43.7	315.5	87.9
CD	7.9	6.5	642.8	925.3	15.8	31.3	5.7	53.6	7.1
CV (%)	9.8	9.4	8.1	7.9	7.8	7.9	7.5	9.7	4.6
Significance	S	S	S	S	NS	S	S	S	NS

Treatments details:

T1 - Farmer practice *

T2 - Ecological Intensification (EI)**

T3 - EI minus tillage practice (Farmer adopted tillage and residue management in all crops)

T4 - EI minus Nutrient management (Farmer adopted nutrients in all crops)

T5 - EI minus Planting density (Farmer adopted genotype and density in all crops)

T6 - EI minus Water management (*farmer's practice for all crops*)

T7 - EI minus Weed management (Farmer adopted weed management in all crops)

T8 - EI minus Disease and insect management (Farmer adopted management in all crops)

Table 67: Weed management in maize systems at Bajaura.

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)	Net returns (Rs. /ha)	B:C ratio
T_1	3273	6074	74.7	59.7	183.3	64.0	66.0	24.3	32970	0.95
T_2	7485	9880	74.4	68.0	179.7	60.7	62.7	29.0	92200	1.68
T_3	5134	7667	69.7	60.8	180.3	61.3	63.3	30.3	56583	1.23
T_4	6972	9879	74.7	68.3	185.0	60.7	62.7	29.0	96934	2.34
T_5	7121	10442	73.3	65.8	188.0	60.0	62.0	30.3	101593	2.52
T_6	7002	9343	76.4	72.5	178.0	60.7	62.7	29.7	96192	2.32
T_7	7300	9608	81.1	74.7	207.7	61.3	63.3	29.0	102791	2.54
T_8	7416	9327	74.2	70.4	171.7	61.3	63.3	30.3	102878	2.46
T_9	7415	9818	80.3	74.7	198.3	60.7	62.7	29.7	104841	2.57
Mean	6568.9	9115.3	75.4	68.3	185.8	61.2	63.2	29.1	87442.4	2.07
CD	731.6	1569.8	8.9	9.4	17.7	1.6	1.6	2.5	13714.0	0.34
CV (%)	6.4	9.9	6.8	7.9	5.5	1.5	1.4	4.9	9.1	9.5
Significance	S	S	NS	S	S	S	S	S	S	S

Treatment	Barrenness in maize (%)	Grassy weeds/m^{-2}		Broad leaves weeds/m^{-2}		Grassy weeds DM (g/m^{2})		Broad leaves weeds DM (g/m^{2})	
		50 DAS	at harvest	50 DAS	at harvest	50 DAS	at harvest	50 DAS	at harvest
T_1	20.5	209.3	92.0	21.3	14.7	141.6	228.7	5.8	28.5
T_2	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T_3	12.8	77.3	54.0	9.3	13.3	61.4	76.5	2.8	18.4
T_4	8.7	8.0	10.7	6.7	12.0	14.9	17.3	3.1	7.5
T_5	10.4	6.7	10.7	2.7	8.0	4.3	14.7	0.8	13.1
T_6	5.5	9.3	9.3	1.3	4.0	7.2	18.8	1.2	8.4
T_7	7.9	9.3	9.3	1.3	4.0	4.7	13.6	0.9	7.5
T_8	6.8	5.3	8.0	5.3	5.3	8.2	12.6	3.3	4.4
T_9	6.6	8.0	5.3	0.0	5.3	15.1	11.3	0.0	14.8
Mean	9.8	37.0	22.1	5.3	7.4	28.6	43.7	2.0	11.4
CD	4.5	13.3	13.4	4.2	5.9	16.2	21.2	1.7	6.2
CV (%)	26.4	20.7	34.9	45.9	46.2	32.7	28.0	49.8	31.3
Significance	S	S	S	S	S	S	S	S	S

Table 68: Weed management in maize systems at Imphal.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Net return (Rs/ha)	BC ratio
T_1	4004	9023	7359	45.2	42.5	187.2	35735	1.97
T_2	9094	15182	12808	63.9	68.7	263.2	106531	2.91
T_3	7412	12339	11046	60.3	59.5	250.9	87589	2.98
T_4	6109	10085	9546	56.9	56.6	192.5	65289	2.50
T_5	7190	13146	11241	59.2	60.0	252.5	85115	2.95
T_6	6739	11955	10467	57.6	60.0	221.4	76735	2.75
T_7	6812	13104	10808	56.5	57.9	252.9	78470	2.79
T_8	8418	14374	12527	61.5	63.4	254.0	106680	3.45
T_9	7527	13078	11372	59.7	59.9	243.9	90815	3.08
Mean	7033.9	12476.1	10797.1	57.9	58.7	235.4	81439.7	2.82
CD	2229.2	1556.9	3303.8	5.5	6.1	40.7	38240.9	0.88
CV (%)	18.3	7.2	17.7	5.5	6.0	10.0	27.1	18.0
Significance	S	S	NS	S	S	S	S	NS

Treatments	Weed count/m² at 50 DAS			Weed count/m² at harvest			Dry matter of weed/m² at harvest		
	Grassy	Sedges	Broad leaves	Grassy	Sedges	Broad leaves	Grassy	Sedges	Broad leaves
T_1	28.3	17.7	75.3	46.0	25.3	98.7	93.0	59.0	118.5
T_2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T_3	5.3	6.7	17.3	21.0	13.7	30.7	41.7	26.8	25.3
T_4	9.0	9.7	15.0	14.0	14.7	24.3	24.0	28.9	16.0
T_5	8.0	9.3	14.0	12.3	18.3	22.7	25.0	29.5	13.4
T_6	6.0	6.0	6.7	11.0	9.3	15.0	21.4	21.6	10.1
T_7	4.7	5.7	4.0	9.7	9.0	10.7	19.1	20.9	6.7
T_8	1.0	3.7	1.0	2.7	6.7	2.7	4.1	10.2	2.7
T_9	1.3	5.0	3.7	5.3	7.0	8.3	8.4	11.2	9.9
Mean	7.1	7.1	15.2	13.6	11.6	23.7	26.3	23.1	22.5
CD	12.5	4.7	19.5	14.3	4.1	12.3	20.1	8.4	9.9
CV (%)	102.1	38.4	73.9	61.0	20.7	30.0	44.0	21.0	25.5
Significance	S	S	S	S	S	S	S	S	S

Table 69: Weed Management in Maize Systems at Srinagar.

Treatment	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)	B:C ratio	Barrenness in maize (%)
T_1	3935	9329	81.6	66.6	173.3	79.7	83.3	21.3	55848	0.63	31.1
T_2	7210	15536	83.0	101.2	223.3	90.3	93.7	24.6	112556	2.40	11.4
T_3	5611	12917	82.7	89.8	229.7	85.7	89.3	24.6	115851	2.52	11.8
T_4	6256	13919	82.9	97.1	241.0	86.3	89.7	24.9	132793	2.80	11.3
T_5	5835	13232	82.4	92.7	239.7	90.3	93.7	24.9	121952	2.60	11.1
T_6	6591	14557	83.0	100.0	238.0	87.3	90.7	24.2	142588	2.93	11.2
T_7	6104	14411	82.6	99.0	232.0	90.0	93.0	24.3	137041	2.87	12.8
T_8	5851	13303	82.8	97.4	225.7	86.0	90.0	24.0	126026	2.81	12.1
T_9	5209	12449	82.7	88.7	219.7	88.0	92.0	25.0	117184	2.50	11.6
Mean	5844.6	13294.7	82.6	92.5	224.7	87.1	90.6	24.2	117982.1	2.45	13.8
CD	167.1	427.4	0.5	1.9	7.1	3.4	3.3	2.0	4460.7	0.16	1.3
CV (%)	1.7	1.9	0.3	1.2	1.8	2.3	2.1	4.7	2.2	3.7	5.3
Significance	S	S	S	S	S	S	S	S	S	S	S

Treatment	Weeds count/m² at 50 DAS		Weeds count/m² at harvest			Weeds dry matter (g/m²) at 50 DAS		Weeds dry matter (g/m²) at harvest		
	Grassy	Broad leaves	Grassy	Broad leaves	Sedges	Grassy	Broad leaves	Grassy	Broad leaves	Sedges
T_1	84.4	85.5	70.6	66.7	1.7	31.3	39.2	21.6	13.6	1.0
T_2	4.0	2.9	1.6	1.7	0.3	1.8	1.1	1.1	0.5	0.0
T_3	21.8	16.3	15.1	11.7	0.7	10.2	9.5	7.9	2.4	0.7
T_4	16.3	12.0	9.5	7.7	0.7	3.9	4.8	3.4	2.4	0.3
T_5	21.0	15.2	12.6	8.7	1.0	10.1	7.8	6.1	2.6	0.7
T_6	11.3	4.6	6.4	2.7	0.0	3.7	2.2	1.8	1.0	0.3
T_7	12.6	9.3	9.0	4.0	0.3	6.4	3.4	3.6	1.9	0.3
T_8	19.6	13.8	11.8	6.3	1.0	7.0	5.5	4.5	2.8	0.7
T_9	26.2	16.6	14.6	9.7	1.0	10.4	8.3	8.1	3.2	0.7
Mean	24.1	19.6	16.8	13.2	0.7	9.4	9.1	6.4	3.4	0.5
CD	3.0	3.2	2.6	3.2	1.1	1.7	1.8	1.8	1.6	1.2
CV (%)	7.1	9.4	9.0	14.0	83.7	10.2	11.4	16.0	26.9	137.6
Significance	S	S	S	S	NS	S	S	S	S	NS

Table 70: Weed management in maize systems at Karnal.

Treatments	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Shelling (%)	Net returns (Rs. /ha)	B:C ratio
T_1	1359	3317	43.1	45.2	65.0	-486	0.98
T_2	6936	9013	68.9	71.2	82.7	79896	2.60
T_3	5642	7373	68.9	71.7	82.3	67417	2.72
T_4	6279	8887	68.4	70.1	82.7	76610	3.03
T_5	6378	8723	69.2	73.4	82.7	82447	3.21
T_6	6456	8900	68.6	70.0	82.7	83369	3.20
T_7	6659	8897	69.0	71.3	82.3	83539	3.22
T_8	6811	8440	68.8	71.5	82.7	89868	3.38
T_9	6953	8240	69.5	71.5	82.3	92703	3.48
Mean	5941.3	7976.6	66.0	68.4	80.6	72818.2	2.87
CD	770.4	816.7	3.6	5.4	0.9	13752.4	0.35
CV (%)	7.5	5.9	3.2	4.6	0.7	10.9	7.1
Significance	S	S	S	S	S	S	S

Treatments	Weeds count/m² at 50 DAS			Weeds dry matter (g/m²) at 50 DAS		
	Grassy	Broad	Sedges	Grassy	Broad	Sedges
T_1	112.6	15.3	125.9	394.2	94.3	109.4
T_2	0.0	0.0	0.0	0.0	0.0	0.0
T_3	47.7	10.0	117.5	140.4	27.6	64.4
T_4	15.7	5.0	1.3	58.9	11.3	0.1
T_5	14.2	4.3	1.0	46.6	9.7	0.1
T_6	10.4	3.7	0.7	25.1	8.2	0.0
T_7	7.9	3.3	0.7	19.7	7.5	0.0
T_8	2.4	0.7	1.0	5.2	1.5	0.1
T_9	1.1	0.3	0.0	1.5	0.5	0.0
Mean	23.6	4.7	27.6	76.8	17.8	19.3
CD	5.3	2.1	3.8	29.8	9.2	10.9
CV (%)	12.9	26.2	8.0	22.4	29.7	32.4
Significance	S	S	S	S	S	S

Table 71: Weed management in maize systems at Ludhiana.

Treatments	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	Barren plants ('000/ha)	Net returns (Rs/ha)	BC ratio
T_1	3095	3870	76.4	70.4	206.7	57.0	59.3	2.5	18521	0.48
T_2	6097	8171	82.4	81.5	234.0	54.3	56.3	1.4	67373	1.46
T_3	4521	5697	78.9	77.8	222.7	54.7	56.7	1.9	44515	1.14
T_4	4968	6308	78.9	77.8	227.7	55.3	57.3	1.9	45683	0.99
T_5	5032	6444	79.2	77.8	229.7	55.3	57.7	1.9	47199	1.02
T_6	5373	6931	79.4	78.7	230.0	55.7	58.0	1.6	52880	1.13
T_7	5507	7160	80.6	79.9	231.3	56.0	58.7	1.4	56687	1.25
T_8	5544	7262	81.5	80.8	230.7	54.3	56.7	1.4	56189	1.20
T_9	5669	7514	81.7	80.8	233.3	54.7	56.3	1.4	59867	1.32
Mean	5089.5	6595.2	79.9	78.4	227.3	55.3	57.4	1.7	49879.1	1.11
CD	888.3	1147.8	4.7	5.9	13.2	2.2	1.9	0.7	15998.6	0.35
CV (%)	10.1	10.1	3.4	4.4	3.4	2.3	1.9	23.1	18.5	18.2
Significance	S	S	NS	S	S	NS	S	S	S	S

Treatments	Weeds count /m² at 50 DAS			Dry weight of weeds (g/m²) at 50 DAS			Weeds count/m² at harvest			Dry weight of weeds (g/m²) at harvest		
	Grasses	Broadleaf	Sedges	Grasses	Broadleaf	Sedges	Grasses	Broadleaf	Sedges	Grasses	Broadleaf	Sedges
T_1	61.0	28.3	52.3	21.8	23.5	20.9	65.3	25.7	57.0	28.2	26.4	23.4
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	21.0	15.0	30.0	8.3	14.6	11.9	25.0	13.7	31.0	11.5	17.5	13.5
T_4	19.7	10.7	19.3	6.6	13.1	12.2	22.3	10.0	22.7	9.2	15.7	13.1
T_5	19.0	9.7	14.0	5.4	12.0	10.4	21.7	9.3	15.7	8.2	15.3	11.8
T_6	14.7	6.7	18.3	4.6	7.7	11.3	19.7	6.0	19.0	5.7	10.9	11.6
T_7	11.0	6.0	14.3	4.3	7.1	9.4	13.3	5.7	15.0	6.7	11.6	11.1
T_8	11.7	6.3	16.0	3.4	7.4	8.7	13.7	6.0	17.0	7.1	9.9	11.8
T_9	10.3	5.7	12.3	3.3	7.1	8.2	12.3	5.3	13.3	7.6	9.2	11.5
Mean	18.7	9.8	19.6	6.4	10.3	10.3	21.5	9.1	21.2	9.4	13.0	12.0
CD	4.3	2.7	6.0	2.2	2.9	2.7	5.9	2.6	5.1	2.5	4.2	3.2
CV (%)	13.3	15.9	17.5	19.4	16.3	14.8	15.9	16.3	13.9	15.7	18.7	15.6
Significance	S	S	S	S	S	S	S	S	S	S	S	S

Table 72: Weed management in maize systems at Pantnagar.

Treatments	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	2868	7778	62.6	62.6	135.3	58.7	62.0	18.8
T_2	5787	11440	62.1	62.1	149.7	55.7	59.0	24.7
T_3	5114	10700	62.6	62.6	146.4	56.0	59.3	24.4
T_4	5199	10741	63.8	63.8	145.3	56.3	60.0	24.2
T_5	5275	10864	62.1	62.1	145.9	56.3	59.7	24.4
T_6	5537	11070	63.8	63.8	148.9	56.3	59.7	24.3
T_7	5330	10823	62.6	62.6	148.0	56.0	59.3	24.3
T_8	5089	11029	63.8	63.8	145.2	55.7	58.7	23.2
T_9	4962	10864	63.0	63.0	146.2	55.7	59.0	23.3
Mean	5018.0	10589.8	62.9	62.9	145.7	56.3	59.6	23.5
CD	979.4	1226.1	7.0	7.0	5.3	0.7	1.2	1.6
CV (%)	11.3	6.7	6.5	6.5	2.1	0.7	1.1	3.9
Significance	S	S	NS	NS	S	S	S	S

Treatments	Cob length (cm)	Cob girth (cm)	Grains/cob	Net return (Rs./ha)	B:C ratio	Weed count/m² at 50 DAS		
						Broad leaves	Grassy	Sedges
T_1	12.5	11.9	282.4	21541	0.74	24.0	262.3	48.7
T_2	16.4	13.8	405.1	56895	1.27	0.0	0.0	0.0
T_3	15.7	13.3	356.9	54803	1.56	5.7	55.3	141.3
T_4	15.2	13.0	348.2	56658	1.63	6.7	33.7	425.0
T_5	15.1	12.9	363.0	57763	1.65	6.0	31.0	288.3
T_6	16.0	13.5	372.8	62408	1.78	7.7	25.3	405.0
T_7	16.3	13.5	394.9	58532	1.66	6.0	22.0	248.0
T_8	15.5	12.9	365.2	55367	1.62	6.7	26.3	376.7
T_9	15.3	13.0	359.7	52899	1.54	7.0	31.0	305.7
Mean	15.3	13.1	360.9	52985.1	1.49	7.7	54.1	248.7
CD	1.3	1.0	63.1	17237.1	0.47	7.0	24.1	92.1
CV (%)	5.0	4.3	10.1	18.8	18.3	52.2	25.7	21.4
Significance	S	S	S	S	S	S	S	S

Treatments	Weed count/m² at harvest			Dry weight of BLW (g/m²) at 50 DAS			Dry weight of BLW (g/m²) at harvest		
	Broad leaves	Grassy	Sedges	Broad leaves	Grassy	Sedges	Broad leaves	Grassy	Sedges
T_1	4.7	169.7	7.3	13.3	175.3	22.0	19.3	214.7	13.0
T_2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T_3	13.0	112.7	5.7	4.3	23.0	68.0	37.3	186.0	8.7
T_4	8.0	39.7	37.0	3.0	16.7	126.7	20.0	112.0	49.0
T_5	10.3	27.0	22.0	4.7	17.3	88.0	28.0	85.7	33.7
T_6	7.3	29.0	41.3	9.0	12.0	128.0	22.0	84.0	39.7
T_7	7.0	24.0	34.7	4.3	11.3	113.7	24.3	71.0	42.7
T_8	9.3	35.7	45.7	8.3	17.3	110.0	28.3	97.0	50.3
T_9	10.3	32.0	34.0	7.7	14.3	104.0	29.7	95.3	48.7
Mean	7.8	52.2	25.3	6.1	31.9	84.5	23.2	105.1	31.7
CD	4.1	32.1	18.6	4.0	32.1	36.7	15.1	47.5	21.4
CV (%)	30.7	35.5	42.5	38.5	58.1	25.1	37.6	26.1	38.9
Significance	S	S	S	S	S	S	S	S	S

Table 73: Weed management in maize systems at Chitrakoot.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Shelling (%)	Grains/ row	Net returns (Rs. /ha)	BC ratio
T_1	2226	16203	3775	74.1	209.3	72.7	24.7	39520	2.86
T_2	3142	18807	5697	81.5	213.0	71.0	27.3	51027	2.66
T_3	3052	24074	5571	77.8	207.3	69.3	29.7	60494	3.45
T_4	2956	22627	5282	74.1	208.7	70.0	27.0	58300	3.48
T_5	2896	22338	5513	75.9	205.0	66.3	26.7	57747	3.56
T_6	3007	23495	5629	79.6	207.3	67.3	28.0	60059	3.54
T_7	3142	23712	5745	79.6	206.3	68.0	25.0	63929	3.82
T_8	3066	19791	5513	75.9	205.7	70.0	25.3	57666	3.45
T_9	3007	21296	5398	79.6	208.3	71.0	26.3	58936	3.61
Mean	2943.7	21371.4	5347.0	77.6	207.9	69.5	26.7	56408.6	3.38
CD	367.1	2160.1	369.9	11.1	26.0	5.8	4.6	7928.7	0.33
CV (%)	7.2	5.8	4.0	8.3	7.2	4.8	10.0	8.1	5.7
Significance	S	S	S	NS	NS	NS	NS	S	S

Treatments	100 seed weight (g)	Seed Moisture (%)	Weed dry wt./m²			Weed density/m²		
			Broad leaves	Grassy	Sedge	Broad leaves	Grassy	Sedge
T_1	27.3	30.7	25.3	117.7	46.3	60.3	122.0	38.3
T_2	30.0	33.7	0.0	0.0	0.0	0.0	0.0	0.0
T_3	29.0	30.7	9.3	33.0	19.3	29.7	59.7	21.3
T_4	29.0	32.0	8.3	26.0	13.3	34.7	55.7	18.3
T_5	29.7	33.0	8.0	23.7	15.3	34.0	53.3	17.3
T_6	28.3	32.3	7.7	22.0	11.0	31.0	53.3	21.3
T_7	32.3	31.7	8.3	23.3	12.7	32.3	50.7	20.7
T_8	31.0	32.7	8.7	31.3	16.3	36.7	58.7	26.0
T_9	31.3	33.7	15.3	38.7	23.0	36.0	53.7	26.3
Mean	29.8	32.3	10.1	35.1	17.5	32.7	56.3	21.1
CD	2.0	3.2	6.1	9.3	5.4	5.4	12.2	4.2
CV (%)	3.8	5.8	34.7	15.4	18.0	9.5	12.5	11.5
Significance	S	NS	S	S	S	S	S	S

Table 74: Weed management in maize systems at Dholi.

Treatment	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Ear height (cm)	Days of 50% tasseling	Days of 50% silking	Days of maturity	Cob Length (cm)	Cob Girth (cm)	Moisture (%)
T_1	4207	5221	83.1	83.1	173.8	74.7	59.8	63.0	101.0	17.7	12.7	18.5
T_2	7689	9286	82.7	82.4	182.1	87.3	59.1	62.3	101.7	17.0	14.0	18.7
T_3	5732	7005	82.0	81.6	168.5	71.3	59.8	63.0	100.3	16.3	12.7	19.1
T_4	6687	8037	80.7	80.7	167.8	75.4	60.2	63.0	102.0	16.0	12.3	18.9
T_5	6505	8013	82.2	82.0	170.8	74.0	60.2	64.1	101.7	15.3	15.7	18.6
T_6	6061	7407	82.0	81.6	169.1	66.5	60.9	64.1	102.0	17.7	13.3	18.2
T_7	6289	7744	82.2	82.2	180.4	91.7	59.5	63.4	101.7	17.0	12.7	19.1
T_8	6041	7341	81.8	81.3	179.4	85.6	59.5	63.7	101.0	18.7	14.0	18.9
T_9	5711	7048	80.9	80.7	173.6	78.1	60.9	64.1	100.0	16.0	12.7	19.0
Mean	6102.3	7455.8	82.0	81.7	173.9	78.3	60.0	63.4	101.3	16.9	13.3	18.8
CD	820.8	941.4	1.7	1.7	15.9	14.5	2.5	2.8	2.3	3.2	2.8	0.3
CV (%)	7.8	7.3	1.2	1.2	5.3	10.7	2.4	2.6	1.3	10.9	12.2	0.8
Significance	S	S	NS	NS	NS	S	NS	NS	NS	NS	NS	S

Table 75: Weed management in maize system (Performance of Rice first year without treatments variation) at Kalyani.

Treatments	Rice grain yield (kg/ha)	Stover yield (kg/ha)	Days to maturity	Grains/ panicle	1000-grains weight (g)	Effective tillers/m^2	Plant height (cm)	Net Return (Rs./ha)	B:C ratio
T_1	3410	5194	114.3	232.6	19.9	200.3	119.3	44952	1.99
T_2	2773	4832	113.7	219.8	19.1	206.3	109.6	28654	1.63
T_3	3707	5667	115.0	201.6	20.0	202.7	116.7	52842	2.16
T_4	3607	5697	115.3	205.4	21.1	197.7	114.9	50381	2.11
T_5	3037	5127	114.7	224.6	20.3	200.3	110.7	35563	1.78
T_6	3617	5503	115.0	186.1	19.7	205.0	113.3	50431	2.11
T_7	3505	5527	113.0	206.1	20.6	210.7	116.0	47652	2.05
T_8	3440	5492	114.3	206.1	19.9	206.0	116.1	46003	2.01
T_9	3524	5463	115.3	234.8	20.4	205.7	114.6	48069	2.06
Mean	3402.4	5389.1	114.5	213.0	20.1	203.9	114.6	44949.6	1.99
CD	625.6	467.0	2.7	33.7	1.4	11.1	10.8	15888.5	0.35
CV (%)	10.6	5.0	1.4	9.1	4.0	3.2	5.5	20.4	10.1
Significance	NS	S	NS	NS	NS	NS	NS	NS	NS

Table 76: Weed management in maize systems at Ranchi.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Cob length (cm)	Cob breadth (cm)	Grains/ row	Grains row/cob
T_1	4066	8630	5296	66.2	66.2	180.9	15.4	11.9	29.3	12.1
T_2	6834	11195	8461	68.7	67.6	243.2	19.0	13.7	36.8	14.5
T_3	6136	10424	7626	68.0	67.8	227.2	18.0	12.7	35.0	13.9
T_4	6356	10666	7902	68.9	67.3	233.7	18.3	12.7	35.4	14.1
T_5	6243	10548	7756	67.6	66.9	229.0	18.1	12.7	35.1	14.1
T_6	6666	10905	8253	69.3	67.6	240.6	18.9	13.3	36.7	14.3
T_7	6619	10828	8194	68.7	68.0	238.7	18.7	13.2	35.9	14.2
T_8	5761	9949	7171	67.8	66.9	226.0	18.0	12.4	34.9	13.6
T_9	5672	9909	7074	68.9	68.0	222.2	17.9	12.3	34.8	13.2
Mean	6039.3	10339.2	7526.0	68.2	67.4	226.8	18.0	12.8	34.9	13.8
CD	796.6	1513.4	947.9	5.8	6.1	21.1	1.4	1.1	3.1	1.6
CV (%)	7.6	8.5	7.3	4.9	5.2	5.4	4.6	5.1	5.2	6.8
Significance	S	NS	S	NS	NS	S	S	NS	S	NS

Treatment	Grains/ cob	1000-maize grain weight	Shelling (%)	Harvest Index	Net return (Rs/ha)	B:C ratio	Weeds count/m² at 50 DAS		
							Grassy	Broadleaf	Sedges
T_1	354.1	264.0	76.7	32.1	40470	1.31	179.7	93.7	76.7
T_2	535.1	289.2	80.9	37.9	77308	1.84	0.0	0.0	0.0
T_3	484.6	278.8	80.5	37.2	70675	1.94	26.7	24.3	14.7
T_4	500.9	282.9	80.5	37.3	76114	2.18	19.7	20.7	12.7
T_5	493.2	281.5	80.5	37.2	75090	2.22	23.3	17.3	11.7
T_6	523.7	286.8	80.8	38.0	81640	2.36	7.3	10.0	7.7
T_7	509.9	285.1	80.7	37.9	81782	2.43	11.7	8.3	5.3
T_8	474.7	276.0	80.3	36.7	65784	1.89	32.3	31.0	24.7
T_9	458.9	272.2	80.2	36.3	65205	1.92	37.0	28.7	20.7
Mean	481.7	279.6	80.1	36.7	70451.8	2.01	37.5	26.0	19.3
CD	66.7	43.4	3.2	3.0	13771.8	0.40	16.3	12.5	12.5
CV (%)	8.0	9.0	2.3	4.7	11.3	11.6	25.1	27.7	37.4
Significance	S	NS	NS	S	S	S	S	S	S

Table 77: Weed management in maize at Coimbatore.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	100 seed weight (g)	Net return (Rs./ha)	B:C ratio
T_1	5402	7133	62.7	60.7	241.1	36.3	39518	1.81
T_2	7814	13362	63.2	60.2	255.2	39.7	71132	2.19
T_3	7678	12823	63.4	60.9	254.1	39.7	70353	2.22
T_4	7469	11876	64.1	61.3	250.7	37.8	68909	2.25
T_5	7173	10616	62.3	59.2	247.1	37.7	64110	2.18
T_6	7586	12289	63.9	61.6	251.3	38.3	70928	2.28
T_7	7301	11098	63.7	61.1	250.1	37.8	66368	2.22
T_8	6621	9403	63.4	60.9	246.8	37.2	54436	2.00
T_9	6314	8901	62.5	59.3	243.1	36.8	50235	1.94
Mean	7039.7	10833.5	63.3	60.6	248.8	37.9	61776.6	2.12
CD	1046.3	1503.7	5.0	5.4	20.0	6.9	15932.9	0.29
CV (%)	8.6	8.0	4.6	5.2	4.7	10.5	14.9	7.9
Significance	S	S	NS	NS	NS	NS	S	S

Treatment	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row	Weed density/m² on 50 DAS		
					Grasses	Sedges	BLW
T_1	19.0	15.5	14.1	30.9	54.3	13.0	71.0
T_2	22.7	16.3	14.9	36.5	0.0	0.0	0.0
T_3	22.0	16.2	14.9	35.9	32.7	117.0	4.3
T_4	21.7	15.9	14.7	35.1	54.3	21.7	0.0
T_5	21.2	15.8	14.3	34.4	114.7	17.7	0.0
T_6	22.0	16.0	14.8	35.6	28.3	48.0	0.0
T_7	21.5	15.8	14.7	34.8	67.7	5.3	0.0
T_8	20.9	15.6	14.3	34.0	25.0	65.3	0.0
T_9	20.3	15.5	14.1	33.9	68.7	46.7	2.0
Mean	21.2	15.8	14.5	34.6	49.5	37.2	8.6
CD	1.9	0.9	1.0	3.9	73.2	86.9	37.2
CV (%)	5.2	3.4	4.2	6.6	85.4	135.0	250.4
Significance	S	NS	NS	NS	NS	NS	S

Treatment	Weed dry weight (g/m²) on 50 DAS			Weed density/m² at harvest			Weed dry weight (g/m²) at harvest		
	Grasses	Sedges	Broadleaf	Grasses	Sedges	Broadleaf	Grasses	Sedges	Broadleaf
T_1	57.7	11.0	29.3	33.7	11.0	0.7	70.7	4.1	2.7
T_2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T_3	65.0	24.0	8.3	36.7	27.3	5.3	26.9	14.7	16.7
T_4	75.7	25.3	0.0	26.3	27.0	1.0	26.0	12.2	1.9
T_5	118.0	19.3	0.0	32.0	36.3	0.0	27.3	10.9	0.0
T_6	53.7	43.0	0.0	7.0	38.7	2.7	8.0	16.0	2.0
T_7	86.0	7.3	0.0	41.3	22.0	4.0	29.1	17.4	3.9
T_8	24.0	39.7	0.0	16.7	34.0	2.0	14.1	17.8	1.6
T_9	126.0	12.3	2.7	14.0	18.7	5.0	9.6	17.7	3.6
Mean	67.3	20.2	4.5	23.1	23.9	2.3	23.5	12.3	3.6
CD	87.8	32.5	16.6	30.1	29.0	4.1	37.5	15.5	7.1
CV (%)	75.4	92.8	214.1	75.4	70.1	102.2	92.2	72.5	113.4
Significance	NS	NS	S	NS	NS	NS	S	NS	S

Table 78: Weed management in maize systems at Peddapuram.

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)	Net returns (Rs. /ha)	B:C ratio
T_1	4503	6570	74.7	72.3	164.3	58.0	61.0	28.0	29968	1.61
T_2	7958	9941	77.4	75.6	193.3	54.0	57.0	36.2	75432	2.18
T_3	7635	9736	76.4	74.2	188.3	54.0	57.3	35.4	78567	2.43
T_4	6585	8514	74.2	73.3	176.3	56.0	59.0	31.2	61058	2.13
T_5	6822	8757	74.0	73.0	178.7	56.0	59.0	31.8	65076	2.20
T_6	7002	8863	74.3	73.5	180.3	55.7	58.7	32.6	68174	2.25
T_7	7245	9291	75.0	73.4	184.3	55.3	58.0	34.2	72305	2.33
T_8	7063	8957	74.1	72.3	182.0	55.7	58.3	32.8	69923	2.30
T_9	7327	9388	75.0	73.1	186.7	55.0	58.0	34.7	74405	2.38
Mean	6904.5	8890.8	75.0	73.4	181.6	55.5	58.5	33.0	66100.8	2.20
CD	875.5	962.6	2.6	2.5	10.3	1.4	1.2	2.8	15321.2	0.28
CV (%)	7.3	6.3	2.0	1.9	3.3	1.5	1.2	4.9	13.4	7.4
Significance	S	S	NS	NS	S	S	S	S	S	S

Treatment	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row	Weed Density/m² at 30 DAS			
					Grasses	Sedges	Broadleaf	Total
T_1	14.1	13.6	13.3	28.4	34.3	22.0	31.3	87.7
T_2	16.8	15.5	15.2	35.3	0.0	0.0	0.0	0.0
T_3	16.6	15.3	15.1	34.0	0.3	0.7	0.3	1.3
T_4	15.0	14.0	14.2	30.2	7.0	22.0	3.3	32.3
T_5	15.2	14.1	14.3	30.5	6.7	18.0	4.0	28.7
T_6	15.3	14.3	14.4	31.0	5.3	16.3	4.0	25.7
T_7	16.2	15.0	14.7	32.4	1.3	13.7	0.3	15.3
T_8	15.4	14.4	14.4	31.1	5.7	12.7	3.3	21.7
T_9	16.4	15.0	14.8	33.1	1.0	10.0	1.0	12.0
Mean	15.7	14.6	14.5	31.8	6.9	12.8	5.3	25.0
CD	1.2	0.6	0.7	3.6	6.5	7.3	3.9	10.1
CV (%)	4.4	2.4	2.8	6.6	54.5	32.9	43.1	23.4
Significance	S	S	S	S	S	S	S	S

Treatment	Weed Density/m² at 50 DAS				Weed Density/m² at harvest				Weed Dry matter (g/m²)		
	Grasses	Sedges	Broadleaf	Total	Grasses	Sedges	Broadleaf	Total	30 DAS	50 DAS	at harvest
T_1	41.7	28.3	33.3	103.3	36.3	25.3	27.7	89.3	95.3	132.2	163.0
T_2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T_3	1.0	8.0	1.0	10.0	1.0	6.3	1.0	8.3	6.0	18.0	26.0
T_4	8.0	26.7	3.7	38.3	8.0	25.7	3.3	37.0	41.7	50.7	64.7
T_5	7.0	22.3	4.3	33.7	6.0	20.0	2.3	28.3	35.0	41.3	53.3
T_6	6.3	18.0	5.0	29.3	4.3	17.0	4.3	25.7	28.3	37.3	48.0
T_7	1.7	14.3	1.0	17.0	1.0	12.3	1.0	14.3	16.0	20.7	30.3
T_8	5.3	14.0	4.3	23.7	4.3	12.3	3.7	20.3	22.7	30.7	41.7
T_9	1.3	12.0	1.3	14.7	1.0	10.0	1.0	12.0	14.3	19.3	27.7
Mean	8.0	16.0	6.0	30.0	6.9	14.3	4.9	26.1	28.8	38.9	50.5
CD	8.0	9.2	5.5	12.3	9.1	8.5	4.6	12.2	8.6	10.9	13.0
CV (%)	57.4	33.5	53.2	23.8	76.0	34.2	54.3	27.0	17.3	16.2	14.8
Significance	S	S	S	S	S	S	S	S	S	S	S

Table 79: Weed management in maize system at Vagarai.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	100 seed weight in (g)	Insect damage (%)	Net returns (Rs./ha)	BC ratio
T_1	4493	9161	5574	48.7	52.0	150.9	31.9	1.7	31213	1.63
T_2	8908	10500	10389	51.8	56.7	159.6	32.0	3.2	102692	2.78
T_3	7559	8603	8820	48.4	50.2	182.5	31.0	1.3	81299	2.48
T_4	6863	8354	8084	50.9	52.4	171.4	32.0	2.8	67948	2.22
T_5	7221	9526	8486	48.9	49.6	158.6	31.4	1.4	75299	2.38
T_6	6595	8242	7908	54.7	47.6	172.8	33.0	0.8	62970	2.13
T_7	6958	8263	8331	48.0	49.6	166.8	32.0	2.3	70408	2.28
T_8	7822	8440	9183	47.8	50.4	163.9	31.7	1.3	85711	2.56
T_9	7481	9124	8895	53.1	48.4	165.6	31.7	2.5	80486	2.49
T_{10}	5843	9249	6931	51.3	41.3	166.7	32.7	0.8	50862	1.94
T_{11}	4874	8318	6016	48.4	52.2	151.9	31.4	1.2	36609	1.72
Mean	6783.4	8889.2	8056.1	50.2	50.0	164.6	31.9	1.7	67772.5	2.24
CD	1879.5	1950.9	2142.4	6.3	11.2	27.8	4.0	2.7	33830.5	0.63
CV (%)	16.3	12.9	15.6	7.3	13.1	9.9	7.4	90.7	29.3	16.5
Significance	S	NS	S	NS	NS	NS	NS	NS	S	S

Treatment	Weed population/m² at 25 DAS			Weed population/m² at 50 DAS			Weed population/m² at harvest		
	Broad	Grasses	Sedges	Broad	Grasses	Sedges	Broad	Grasses	Sedges
T_1	45.3	3.0	0.3	23.0	0.7	0.0	1.3	23.0	1.7
T_2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T_3	2.0	1.3	0.0	20.7	9.7	4.7	12.3	23.0	1.7
T_4	87.0	15.3	0.0	14.3	1.0	0.3	8.7	31.0	0.0
T_5	43.0	10.0	0.0	11.7	11.0	0.0	22.7	19.0	0.0
T_6	14.7	7.7	14.0	17.7	9.0	0.3	17.3	4.7	11.7
T_7	54.7	21.3	0.0	1.3	14.0	0.0	1.0	27.7	0.0
T_8	1.7	1.3	1.7	2.7	10.3	0.0	7.0	16.0	0.0
T_9	0.0	0.0	0.0	3.7	2.0	1.0	2.7	33.3	0.0
T_{10}	51.3	21.7	0.0	0.0	0.0	0.0	40.7	55.7	0.0
T_{11}	32.0	9.7	0.0	9.7	8.3	0.7	5.3	38.0	2.3
Mean	30.2	8.3	1.5	9.5	6.0	0.6	10.8	24.7	1.6
CD	55.1	16.0	12.6	13.4	12.2	4.4	21.4	33.1	10.6
CV (%)	107.3	113.4	509.8	82.7	119.6	403.3	116.2	78.8	396.4
Significance	S	NS	NS	S	NS	NS	S	NS	NS

Cont…

Treatment	Weed dry matter (g/m²) at 25 DAS			Weed dry matter (g/m²) at 50 DAS			Weed dry matter/m² at harvest		
	Broad	Grasses	Sedges	Broad	Grasses	Sedges	Broad	Grasses	Sedges
T_1	64.1	0.5	0.0	108.0	1.3	0.0	0.9	41.8	0.3
T_2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T_3	1.4	0.6	0.0	10.7	3.5	2.0	7.3	44.1	1.0
T_4	40.9	6.5	0.0	63.0	3.1	0.2	16.4	44.6	0.0
T_5	49.8	10.9	0.0	25.0	20.3	0.0	18.0	35.2	0.0
T_6	16.1	7.1	13.5	16.5	7.6	0.1	17.0	6.6	13.9
T_7	50.2	16.0	0.0	3.0	46.4	0.0	1.8	47.9	0.0
T_8	0.5	0.3	0.6	8.4	8.7	0.0	16.2	26.4	0.0
T_9	0.0	0.0	0.0	6.6	5.2	0.9	8.4	57.4	0.0
T_{10}	30.3	16.7	0.0	0.0	0.0	0.0	41.1	39.4	0.0
T_{11}	16.8	7.5	0.0	41.1	16.0	0.7	18.5	82.3	1.6
Mean	24.6	6.0	1.3	25.7	10.2	0.4	13.2	38.7	1.5
CD	34.7	14.7	12.1	48.0	30.1	2.1	23.0	51.1	12.3
CV (%)	82.9	143.5	552.6	109.8	173.3	342.5	101.9	77.5	476.7
Significance	S	NS	NS	S	NS	NS	NS	NS	NS

Treatment	Total weed/m²			Total weed dry matter (g/m²)			Weed control efficiency (%)		
	25 DAS	50 DAS	At harvest	25 DAS	50 DAS	At harvest	25 DAS	50 DAS	At harvest
T_1	48.7	23.7	26.0	64.7	109.3	43.0	0.0	0.0	0.0
T_2	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0
T_3	3.3	35.0	37.0	2.0	16.1	52.4	96.7	80.5	-49.8
T_4	102.3	15.7	39.7	47.4	66.3	61.0	30.5	18.4	-72.6
T_5	53.0	22.7	41.7	60.8	45.2	53.3	12.1	46.4	-36.2
T_6	36.3	27.0	33.7	36.8	24.3	37.5	48.1	67.8	-4.3
T_7	76.0	15.3	28.7	66.2	49.4	49.8	1.2	37.6	-21.0
T_8	4.7	13.0	23.0	1.4	17.2	42.6	97.3	77.3	-5.4
T_9	0.0	6.7	36.0	0.0	12.8	65.8	100.0	92.7	-112.4
T_{10}	73.0	0.0	96.3	47.0	0.0	80.5	30.0	100.0	-88.4
T_{11}	41.7	18.7	45.7	24.3	57.7	102.3	63.6	36.1	-126.9
Mean	39.9	16.2	37.1	31.9	36.2	53.5	52.7	59.7	-37.9
CD	64.7	19.0	40.7	40.0	56.2	52.0	55.7	59.2	139.4
CV (%)	95.2	69.2	64.5	73.7	91.1	57.1	62.1	58.2	-215.8
Significance	S	S	S	S	S	NS	S	S	NS

Table 80: Weed management in maize systems at Ambikapur.

Treatments	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	Net returns (Rs. /ha)	B:C ratio
T_1	2998	7358	65.3	60.4	157.8	52.0	55.0	14979	0.48
T_2	6152	13797	65.1	65.1	229.6	54.0	57.0	49160	1.17
T_3	5616	12814	65.8	65.1	213.5	54.3	57.3	47242	1.30
T_4	5592	12780	64.4	64.4	209.5	54.7	57.7	48547	1.39
T_5	5436	12570	65.6	63.8	202.8	54.0	57.0	47533	1.40
T_6	5954	13456	64.0	65.8	220.8	54.0	57.0	53772	1.55
T_7	5801	13166	65.1	64.9	214.5	54.0	57.0	52583	1.56
T_8	4953	11472	64.4	64.2	199.2	53.3	56.3	39398	1.13
T_9	4592	10736	65.8	63.3	194.1	53.7	56.7	35182	1.04
Mean	5232.6	12016.6	65.1	64.1	204.7	53.8	56.8	43155.1	1.23
CD	547.8	1368.6	1.8	1.6	14.9	1.4	1.4	8382.7	0.24
CV (%)	6.0	6.6	1.6	1.4	4.2	1.5	1.4	11.2	11.4
Significance	S	S	NS	S	S	S	S	S	S

Treatments	Weeds count /m² at 50 DAS			Weeds count /m² at harvest			Weeds dry matter (g/m²) at harvest		
	Grassy	Broadleaf	Sedges	Grassy	Broadleaf	Sedges	Grassy	Broadleaf	Sedges
T_1	164.7	86.0	74.7	102.1	41.3	50.8	38.8	25.6	27.9
T_2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T_3	12.3	13.7	13.3	7.6	6.6	9.1	2.9	4.1	5.0
T_4	14.0	14.7	12.0	8.7	7.0	8.2	3.3	4.4	4.5
T_5	35.0	18.0	22.3	21.7	8.6	15.2	8.2	5.4	8.4
T_6	6.3	23.0	6.0	3.9	11.0	4.1	1.5	6.8	2.2
T_7	12.0	13.0	14.7	7.4	6.2	10.0	2.8	3.9	5.5
T_8	47.3	48.0	19.0	29.3	23.0	12.9	11.2	14.3	7.1
T_9	51.0	16.7	30.0	31.6	8.0	20.4	12.0	5.0	11.2
Mean	38.1	25.9	21.3	23.6	12.4	14.5	9.0	7.7	8.0
CD	8.1	11.4	8.3	5.0	5.5	5.7	1.9	3.4	3.1
CV (%)	12.2	25.4	22.6	12.2	25.4	22.6	12.2	25.4	22.6
Significance	S	S	S	S	S	S	S	S	S

Table 81: Weed management in maize systems at Chhindwara.

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	Net Return (Rs./ha)	BC ratio
T_1	4564	12558	60.8	62.1	151.3	58.5	58.3	20889	2.42
T_2	8573	22557	66.7	75.3	175.5	57.0	58.0	117368	3.23
T_3	8324	20780	66.4	73.3	171.5	57.6	57.3	105061	3.15
T_4	7008	17532	66.0	66.7	163.0	54.0	57.3	60962	2.69
T_5	6835	16089	64.3	68.8	161.3	57.0	55.0	56467	2.64
T_6	7634	19735	66.1	71.2	169.8	55.0	56.0	89770	3.09
T_7	7360	18578	65.6	70.1	164.4	58.5	57.0	77052	3.04
T_8	6552	15725	63.4	65.5	159.3	57.0	58.0	57267	2.53
T_9	6390	14524	62.0	63.5	157.3	58.0	59.3	49639	2.47
Mean	7026.8	17564.3	64.6	68.5	163.7	57.0	57.4	70497.2	2.81
CD	874.6	1754.4	7.2	5.9	13.7	7.1	6.1	10263.4	0.24
CV (%)	7.2	5.8	6.4	4.9	4.8	7.2	6.1	8.4	5.0
Significance	S	S	NS	S	S	NS	NS	S	S

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Treatment	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row	Weeds count/m² at 50 DAS		
					Narrow	Broad	Sedges
T_1	14.0	13.0	12.0	33.2	32.6	12.0	6.0
T_2	17.3	17.0	16.5	43.5	8.3	4.7	0.7
T_3	17.0	16.5	16.0	43.0	22.0	1.7	0.7
T_4	16.3	15.0	13.8	38.5	24.6	7.4	0.7
T_5	16.1	14.7	13.5	37.8	23.6	6.0	3.7
T_6	16.5	15.8	14.5	40.7	22.7	2.4	2.6
T_7	15.7	15.4	14.7	40.0	23.7	3.7	4.3
T_8	15.5	14.8	13.3	38.0	27.0	7.7	0.6
T_9	15.0	14.3	13.0	34.0	25.0	6.7	5.3
Mean	15.9	15.2	14.1	38.7	23.3	5.8	2.7
CD	1.7	1.8	1.2	3.6	4.1	0.5	0.3
CV (%)	6.0	6.9	5.0	5.3	10.3	5.5	6.6
Significance	S	S	S	S	S	S	S

Treatment	Fresh weight of weeds (g/m²) at 50 DAS			Dry weight of weeds (g/m²) at 50 DAS		
	Narrow	Broad	Sedges	Narrow	Broad	Sedges
T_1	21.2	18.0	11.5	4.7	2.4	2.5
T_2	3.4	0.2	0.9	2.0	0.0	0.9
T_3	4.9	1.7	1.5	2.3	0.3	1.0
T_4	12.2	9.0	4.0	3.3	1.3	1.4
T_5	13.4	10.2	8.1	3.5	1.5	2.0
T_6	6.0	2.8	1.9	2.4	0.4	1.1
T_7	6.9	3.7	2.5	2.6	0.6	1.2
T_8	14.6	11.4	8.7	3.7	1.7	2.1
T_9	15.4	12.2	10.1	3.8	1.8	2.3
Mean	10.9	7.7	5.5	3.2	1.1	1.6
CD	2.3	1.8	1.4	0.6	0.3	0.4
CV (%)	12.4	13.4	14.8	11.3	16.6	12.5
Significance	S	S	S	S	S	S

Treatment details:

T1 - Weedy check
T2 - Weed free check
T3 - Atrazine 1000 g/ha (PE) *fb* Hand weeding at 25 DAS
T4 - Atrazine 750 g/ha (PE) *fb* Topramezone 25.2 g/ha at 25 DAS
T5 - Atrazine 750 g/ha (PE) *fb* Tembotrione 120 g/ha at 25 DAS
T6 - Atrazine 1000 g/ha (PE) *fb* Topramezone 25.2 g/ha at 25 DAS
T7 - Atrazine 1000 g/ha (PE) *fb* Tembotrione 120 g/ha at 25 DAS
T8 - Topramezone 25.2 g/ha + Atrazine 750 g/ha at 15 DAS
T9 - Tembotrione 120 g/ha + Atrazine 750 g/ha at 15 DAS

Front Line Demonstration (FLD)

Forntline demonstration programme

under

National Food Security Mission in maize during 2019-20

FLDs conducted in maize during 2019-20

Season	FLD allocated (ha)	FLD conducted (ha)	Remark
Kharif 2019	150	151	Data reported
Rabi 2019-20	110	110	In the field at flowering in Rabi season and at seedling stage in spring.
Spring 2020	140	40	
Total	**300**	**301**	

Data reported in this report are of as follows:

Season	FLDs (ha)	Yield gains over farmers practice (%)
Rabi 2018-19	97.8*	21.2 (3.0 – 59.4)
Spring 2019	40.0	33.1 (8.9 – 72.7)
Kharif 2019	150.01*	28.4 (3.8-127.7)
Total	**287.81**	

*FLD on nutritionally enriched maize (Quality Protein Maize): 20 ha (10 ha each at Meghalaya in kharif 2019 and in Bihar during Rabi 2018-19)

FLD conducted in maize during 2019-20

Implementing agency: ICAR-Indian Institute of Maize Research, Ludhiana

Table 1. State-wise, season-wise progress report of the FLDs conducted in maize during 2019-20.

Sl. No.	State	FLDs area (ha)	Yield in FLDs (q/ha)	Yield in farmers' practices (q/ha)	Yield gap (%)	No. of Beneficiaries
***Rabi* 2018-19**						
1.	Telangana	20.00	55.40	48.40	16.20	37
2.	Bihar	20.00	67.40	56.80	18.30	53
3.	Rajasthan	10.00	45.10	40.40	10.30	25
4.	Uttar Pradesh	10.00	91.20	58.80	78.20	30
5.	Tamil Nadu	10.00	73.20	63.70	15.00	25
6.	West Bengal	17.80	82.00	74.50	16.00	67
7.	Gujarat	10.00	36.90	29.60	25.10	25
Total/mean		**97.80**	**64.50**	**53.20**	**21.20**	**262**
Spring 2019						
8.	Haryana	10.00	63.70	24.40	61.60	21
9.	Punjab	20.00	74.60	68.50	8.90	50
10.	Uttarakhand	10.00	65.10	50.70	28.40	19
Total/mean		**40.00**	**66.40**	**49.90**	**47.70**	**90**
***Kharif* 2019**						
11.	Jammu & Kashmir	11.10	54.90	37.90	44.90	35
12.	Uttarakhand	9.80	47.00	37.80	24.30	46
13.	Himachal Pradesh	10.00	38.70	24.40	58.60	25
14.	Manipur	10.00	33.70	14.80	127.70	10
15.	Meghalaya	10.00	29.00	23.00	26.10	57
16.	Bihar	10.00	56.30	43.20	30.30	29
17.	Punjab	10.00	42.80	41.20	3.90	37
18.	Uttar Pradesh	10.00	69.30	47.00	47.40	46
19.	Rajasthan	30.00	28.20	18.00	56.40	155
20.	Gujarat	9.20	24.10	19.80	21.70	23
21.	Tamil Nadu	10.00	74.20	64.20	15.60	25
22.	Telangana	20.00	42.40	34.70	22.20	50
	Total/mean	**150.10**	**45.10**	**33.80**	**33.20**	**538**

Table 2: Details of the technologies demonstrated in maize FLDs in 2019-20.

Name of the centre	Technology demonstrated	Area (ha)	Local check	Location	Yield in FLD (q/ha)	Yield in check (q/ha)	Gains (%)
	***Rabi* 2018-19**						
WNC, Hyderabad	DHM-117 hybrid with Management of Fall Army Worm through Pheromone traps and ecofriendly pesticides	5	Private sector hybrids, Spraying of Monocrotophos	Kishan Nagar	51.3	48.2	6.3
	DHM-121 hybrid with Management of Fall Army Worm through Pheromone traps and ecofriendly pesticides	5	Private sector hybrids, Spraying of Monocrotophos	Kishan Nagar	54.0	47.5	13.7
RMRSPC, Begusarai	DHM117	8.6	Pvt Sector hybrid	Sadanandpur, Begusarai	77.7	59.0	31.7
	DHM117+ Potato	1.4	Pvt Sector hybrid	Sadanandpur, Begusarai	65.5	56.0	17.0
MPUAT, Banswara	DHM 117 (medium) seed with management practices	8.4	Farmers own seed and management practices	Bhuritalai, Dungripara, Khera, Sageta, Banswara	51.9	46.1	12.6
	Pratap Kanchan-2 (early) seed with management practices	1.6	Farmers own seed and management practices	Sundani, Rujia, Karanpur, Banswara	38.3	34.8	10.1
PJTSAU, Hyderabad	Atrazine followed by Tembotrione, a post emergence herbicide in maize	10	Atrazine followed by hand weeding	Kishannagar	61.0	49.5	23.2
Dr. RPCAU, Dholi	Q P M Hybrid Shaktiman-5	10	NK 7720, Rajkumar Gold		58.9	55.4	6.2
NDUAT, Bahraich	Ridge sowing	10	Flat sowing	Soharwa	96.1	60.9	57.9
	Intercropping with Lentil		Monocropping of maize	Kamhariyapurwa, Gaura para	84.4	55.8	51.2
	Pure crop/ line sowing		Flat sowing	Nebia, Matera	94.0	59.0	59.4
	Intercropping with Coriander		Monocropping of maize	Newada, Tejwapur	89.9	57.3	56.9
	Line sowing		Flat sowing	Rampur, Jaitapur, Nababganj,	93.7	63.8	46.9
	Intercropping with radish		Monocropping of maize	Ahiraura, Chitaura	89.2	56.4	58.2
TNAU, Coimbatore	COH(M)8	0.8	S6668	Annur, Coimbatore South	74.5	66.2	12.5
	COH(M)8	0.4	DKC 9177	Annur, Coimbatore South	73.4	64.2	14.2
	COH(M)8	0.8	NK 6240	Annur, Coimbatore South	70.3	61.6	14.1

Name of the centre	Technology demonstrated	Area (ha)	Local check	Location	Yield in FLD (q/ha)	Yield in check (q/ha)	Gains (%)
	CO 6	4		Annur, Coimbatore South	72.4	62.2	16.4
	CO 6	1.2		Annur, Coimbatore South	75.7	64.9	16.6
	CO 6	0.4	P 3501	Annur, Coimbatore South	70.2	59.9	17.2
	CO 6	1.6	DKC 9177	Annur, Coimbatore South	74.9	64.0	17.0
	CO 6	0.8	CP 808	Annur, Coimbatore South	73.9	66.4	11.3
BCKV, Kalyani	P3396, seed of intercrop to selected farmers(Coriander, Pea, Fenugreek). Coriander (Surabhi)-given to 18 farmers, Pea(PSM 3) – 9 farmers, Fenugreek (JK) -5 farmers.	17.8	P3396	Hooghly	71.0	69.0	3.0
				Nadia	93.1	80.0	16.4
AAU, Godhra	GAYMH-1	3.6	Local cultivars	Panchmahal, Mahisagar	37.3	29.8	25.2
	GAYMH-3	6.4	Local cultivars	Panchmahal, Mahisagar	36.7	29.4	24.8
	Spring 2019						
CCSHAU, Karnal	Sowing before 15th February	7.6	Sowing after 15th February	Panchkula	63.9	18.1	25.3
	Sowing before 15th February	2.4	Sowing after 15th February	Kurukshetra	63.2	36.6	72.7
IIMR, Ludhiana	DKC 9108 with full package of practices	20	Pvt Sector hybrid with farmer practices	Taran Taran	74.6	68.5	8.9
GBPUAT Pantnagar	Dekalb-9108	5.6	Traditional summer rice	U.S Nagar	65.5	50.2	30.5
	DH-296	4.4	Traditional summer rice	U.S Nagar	64.7	51.3	26.1
	***Kharif* 2019**						
PJTSAU, Karimnagar	Demonstrations of late wilt tolerant single cross maize hybrid Karimnagar makka-1 (KNMH- 4010131).	10	KNMH 4010131 maize hybrid, Private maize hybrids	Perkapally village of Saidapur mandal	66.8	54.7	18
SKUAST, Srinagar	KDPC-2	3.19	Matihund local / fertilizer N appn. only	Anantnag	38.6	32.3	**19.5**
	SQPMH-1	1	Wazug makai / fertilizer N appn.	Srinagar	65.0	41.3	**57.6**

Name of the centre	Technology demonstrated	Area (ha)	Local check	Location	Yield in FLD (q/ha)	Yield in check (q/ha)	Gains (%)
			only				
	SMC-7	6.89	Safed makai / fertilizer N appn. only	Budgam	61.2	40.3	**52.0**
TNAU, Coimbatore	CO 6	3.2	NK6240	Attur, Salem	76.6	66.8	**14.7**
	CO 6	0.4	S 6668	Attur, Salem	70.5	59.8	**17.9**
	CO 6	0.4	900 M Gold	Attur, Salem	78.9	70.0	**12.7**
	COH(M) 8	0.4	DKC 9177	Attur, Salem	74.5	64.6	**15.4**
	COH(M) 8	1.2	Kaveri244	Attur, Salem	72.5	60.5	**19.8**
	COH(M) 8	3.2	NK 6240	Attur, Salem	76.0	66.0	**15.2**
	COH(M) 8	0.4	S 6668	Attur, Salem	69.0	60.0	**15.0**
	COH(M) 8	0.8	900 M Gold	Attur, Salem	76.0	66.0	**15.2**
CSKHPKV, Kangra	K-25 and Atrazine application with full package of practices	10	Either local cultivar or non-tested private sector hybrids available in the local market + no herbicide application + without timely recommended crop management practices/plant protection measures	Kangra	38.7	24.4	**58.6**
CAU, Imphal (Manipur)	DMRH-1301 with improved package of practices	10	Local genotype (Chakhao chujak) with traditional practices	Churachanpur	33.7	14.8	**127.7**
ICAR-NEH, Umiam	HQPM-5 with Line sowing and basal fertilizer application	10	Random sowing, no fertilizer, local variety	Umiam	29.0	23.0	**26.1**
Dr RPCAU, Dholi	Raised bed Planting	10	SIRI Seeds – 4339 with flat planting	Begusarai	54.3	43.0	**26.3**
				Muzaffarpur	53.5	42.5	**25.9**
				Samastipur	61.7	43.0	**43.4**
				Vaishali	55.9	44.1	**26.8**
PAU, Ludhiana	PMH-11, Atrazine and Biofertilizer	6.8	PAC 751, without biofertilizer	Hoshiarpur	42.75	41.17	**3.8**
		3.2	PAC 751, without biofertilizer	Hoshiarpur	Failed due to heavy rainfall		
BHU, Varanasi	DKC-7074, 9544	8.28	Farmers own seed	Mirzapur	69.3	47.0	**47.4**
	DKC-7074, 9544	2.64	Farmers own seed	Mirzapur	Failed due to heavy rainfall		
MPUAT, Udaipur	Bio-9544	10	Local variety	Hayala, Udaipur	26.0	18.2	**42.6**
				Chouthpura,	33.7	18.2	**85.1**

Name of the centre	Technology demonstrated	Area (ha)	Local check	Location	Yield in FLD (q/ha)	Yield in check (q/ha)	Gains (%)
				Chittorgarh			
				Math Chorangiyan, Udaipur	23.4	17.5	**33.5**
				Chhapri khera, Bhilwara	21.6	16.5	**30.9**
VPKAS, Almora	Vivek Maize Hybrid 45	9.81	Local cultivar, FYM@20t/ha, Urea@40N	Navadkheda, Khiri/Bichakot etc	47.0	37.8	**24.2**
	Vivek Sankul Makka 31		The local cultivar is normally grown for green cobs	Khyarsi	35.0	27.3	**28.2**
AAU, Godhara	GAYMH-1 with Bio-NPK Consortium	4.8	Local cultivars without biofertilizers	Mahisagar	24.1	19.8	**21.9**
		4		Panchmahal	24.1	19.6	**23.2**
		0.4		Dahod	24.0	19.9	**20.6**
PJTSAU, Hyderabad	KNMH4010131, wilt and drought tolerant medium duration hybrid with improved package	10	Farmers own seed/pvt sector hybrids	Chowdari guda, RangaReddy	18.0	14.7	**22.4**
MPUAT, Banswara	DHM 117 with maize + soybean/Urd intercropping	10	Local market weed without intercropping	Banswara	30.0	17.6	**70.5**
	DHM 117 with maize + soybean/Urd intercropping	10	Local market weed without intercropping	Banswara	30.1	19.2	**56.8**

Pathology

CONTENTS

Abbreviations used:

1.	ALMO	Almora	**12.**	HYDE	Hyderabad
2.	DHAR	Dharwad	**13.**	IMPH	Imphal
3.	BAJA	Bajaura	**14.**	KALY	Kalyani
4.	BARA	Barapani	**15.**	KARN	Karnal
5.	COIM	Coimbatore	**16.**	LUDH	Ludhiana
6.	DELH	Delhi	**17.**	LARN	Larnoo
7.	DHAU	Dhaulakuan	**18.**	MAND	Mandya
8.	DHOL	Dholi	**19.**	PANT	Pantnagar
9.	GODH	Godhra	**20.**	UDAI	Udaipur
10.	PEDD	Peddapuram	**21.**	RAHU	Rahuri
11.	SABO	Sabour			

NHZ: - North Hill Zone (Almora, Bajaura, Barapani, Dhaulakuan, Imphal, Larnoo); **NWPZ: -** North West Plain Zone (Delhi, Karnal, Ludhiana, Pantnagar); **NEPZ: -**North East Plain Zone (Dholi, Sabour, Kalyani); **PZ: -** Peninsular Zone (Coimbatore, Dharwad, Hyderabad, Mandya, Rahuri, Peddapuram); **CWZ: -** Central Western Zone (Udaipur, Godhra)

1.	BLSB	Banded leaf and sheath blight	**10.**	MLB	Maydis leaf blight
2.	BSDM	Brown stripe downy mildew	**11.**	P. Rust	Polysora rust
3.	BSR	Bacterial stalk rot	**12.**	PFSR	Post flowering stalk rot
4.	C. Rot	Charcoal rot	**13.**	RDM	Rajasthan downy mildew
5.	C. Rust	Common rust	**14.**	SDM	Sorghum downy mildew
6.	CLS	Curvularia leaf spot	**15.**	TLB	Turcicum leaf blight
7.	FSR	Fusarium stalk rot	**16.**	CN	Cyst Nematode
8.	LW	Late wilt	**17.**	BS	Brown spot
9.	C. smut	Corn smut	**18.**	H. smut	Head smut

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	Highly Resistant	**10.**	HS	Highly susceptible

Criteria for disease reaction:

S.No.	Disease	Scale	Disease Reaction			
			R	MR	MS	S
1	**MLB**	1-9	≤3.0	3.1-5.0	5.1-7.0	>7.0
2	**TLB**	1-9	≤3.0	3.1-5.0	5.1-7.0	>7.0
3	**BLSB**	1-9	≤3.0	3.1-5.0	5.1-7.0	>7.0
4	**C. Rot**	1-9	≤3.0	3.1-5.0	5.1-7.0	>7.0
5	**FSR**	1-9	≤3.0	3.1-5.0	5.1-7.0	>7.0
6	**CLS**	1-9	≤3.0	3.1-5.0	5.1-7.0	>7.0
7	**BSR**	0-100 %	≤10 %	10.1-25.0%	25.1-50.0%	>50.0%
8	**RDM**	0-100 %	≤10 %	10.1-25.0%	25.1-50.0%	>50.0%
9	**SDM**	0-100 %	≤10 %	10.1-25.0%	25.1-50.0%	>50.0%

Criteria of rusts reaction:

S.No.	Disease	Scale	Disease Reaction					
			Immune/HR	R	MR	MS	S	HS
1.	**P. Rust**	1-9	≤1.0	1.1-2.0	2.1-4.0	4.1-6.0	6.1-7.0	>7.0
2.	**C. Rust**	1-9	≤1.0	1.1-2.0	2.1-4.0	4.1-6.0	6.1-7.0	>7.0

Criteria for non-insect pest cyst nematode:

S.No.	Disease/Non insect pest	Scale(cyst/plant)	Reaction		
			R	MR	S
1.	**CN**	Number of cyst/plant	0-4.0	5.0-9.0	>9.0

Executive Summary

During *Kharif* 2019, following maize entries were evaluated in different zones of AICRP on Maize across the country:

Trial	NHZ			NWPZ			NEPZ			PZ			CWZ		
	Late	Medium	Early	Late	Medium	Early	Late	Medium	Early	Late	Medium	Early	Late	Medium	Early
NIVT	-	18	24	55	78	28	55	78	28	55	78	28	55	78	28
AVT I II	-	4	2	27	33	9	27	33	9	27	33	9	27	33	9
QPM I II III	10				16		16			16			16		
SC I II III	5				11		11			11			11		
PC I II III	4			-			-			-			-		
BC I II III	5			13			13			13			13		
Rainfed I II III	-			2	3	3	2	4	2	2	4	3	2	4	2
OPV	8			-			-			-			-		
Total	**80**			**278**			**278**			**279**			**278**		

QPM- Quality protein maize; SC- Sweet corn; PC- Pop corn; BC- Baby corn; OPV- Open pollinated varieties

The test entries were promoted from first year (NIVT) to second year (AVT-I) and second year to third year (AVT II) on the basis of disease reaction criteria given below:

Diseases	Rating scale/ Disease incidence (%)	Permissible disease score/ incidence (%) for promotion of entries from NIVT to AVT I and AVT I to AVT II	Permissible disease leaf area (%) for promotion of entries from NIVT to AVT I and AVT I to AVT II	Permissible PDI for promotion of entries from NIVT to AVT I and AVT I to AVT II
TLB, MLB, BLSB*****, PFSR, CLS	1-9	≤5.0	≤50	≤55.55
C.RUST, P.RUST*****	1-9	≤4.0	≤20	≤44.44
SDM*****, RDM*****, BSR	DI (%)	≤25.0	-	-
Cyst nematode	No. of cyst /plant	≤9.0	-	-

Note:

1. Description of rating scales: MLB, TLB, CLS, BLSB, PFSR (1-9): R: ≤3.0; MR: 3.1-5.0; C. rust & P. rust (1-9): HR: ≤ 1.0; R: 1.1-2.0; MR: 2.1 - 4.0; SDM, RDM & BSR (%DI): R: ≤ 10%; MR- 10.1-25%; Cyst nematode (no. of cyst/plant): R: ≤ 4.0 ; MR- 4-9.
2. While promoting entries from NIVT to AVT I and AVT I to AVT II, the reaction of diseases of zonal/ regional importance of test entries is considered.
3. *Since resistance sources against downy mildews (sorghum downy mildew, Rajasthan downy mildew, brown stripe downy mildew), banded leaf and sheath blight, rusts (common rust and polysora rust) and bacterial stalk rot diseases are meager; therefore, test entries should be promoted with the rider of seed treatment & foliar spray of metalaxyl @ 0.25% (as a general rule) in case of downy mildews and/ or management practices identified under IDM package for these diseases.

Details of the coordinated trials conducted under AICRP on maize during *kharif* 2019 are given below.

S.No.	Centre	University	Total Trials allotted
1	Almora	ICAR-VPKAS, Almora	11
2	Larnoo	SKUAST, Kashmir	10
3	Bajaura	CSKHPKV, Palampur	13
4	Barapani	NEH, Barapani	07
5	Imphal	CAU), Iroisembla, Imphal	07
6	Dhaulakuan	CSKHPKV, Palampur	18
7	Delhi	ICAR-IARI, Delhi	27
8	Ludhiana	PAU, Ludhiana	28
9	Karnal	CCSHAU, Hisar	28
10	Pantnagar	GBPUAT, Pantnagar	15
11	Dholi	RAU, Samastipur	14
12	Sabour	BAU, Sabour	14
13	Kalyani	BCKV, Kalyani	03
14	Hyderabad	PJTSAU, Hyderabad	15
15	Dharwad	UAS, Dharwad	15
16	Mandya	UAS, Bengaluru	29
17	Coimbatore	TNAU, Coimbatore	14
18	Rahuri	MPKV, Rahuri	14
19	Peddapuram	ANGRAU, Guntur	15
20	Udaipur	MPUAT, Udaipur	53
21	Godhra	AAU, Anand	04

Zone wise summarized results of AICRPM Pathology are presented below:

A. **Northern Hill Zone (NHZ)**

NIVT (medium maturity) (Total No. of Entries = 18) (Table 1)			
S. No.	**Disease**	**Resistant**	**Moderately resistant**
1.	TLB (R- 9) (MR- 9)	AH1625, AH1634, AH8245R, DH323, DKC8205, HKH372, JKMH1481, LMH4219, KMH1871	AH4167, AH8452, AH4142, LMH4319, LMH4419,KMH1842, DH324 ,DKC8209, LMH4119
2.	BLSB (MR- 9)	-	AH1625, AH1634, AH4167, AH8452, DH323, DH324, DKC8209, KMH1842, LMH4319
3.	BSR (R-7) (MR- 8)	AH1625, DH324, DKC8205, DKC8209, HKH372, JKMH1481, LMH4319	AH4142, AH8245 R ,AH8452, DH323, KMH1871, LMH4119, LMH4219, LMH4419
NIVT (early maturity) (Total No. of Entries = 24) (Table 2)			
S. No.	**Disease**	**Resistant**	**Moderately resistant**
1.	TLB (R-10) (MR-14)	AH1608,AH4045,AH8178, AH8323,AH8622, DH322, FH3900, H118,HKH371,LMH 1946	AH3254, DH321, DKC7204, FH3917, H119, H120, H121, HKH370, KMH1813, KMH1815, LMH 1945, LMH 1947, LMH 1948, FH3912
2.	BLSB	-	-
3.	BSR (R-5) (MR-5)	AH1608, AH4045, H118, HKH370, LMH 1945	AH8323, DKC7204, FH3917, H119, LMH 1946

AVT I II (medium maturity) (Total No. of Entries =4)(Table 3)			
S. No.	**Disease**	**Resistant**	**Moderately resistant**
1.	TLB (R- 3) (MR- 1)	DKC9190, JKMH15303, LMH1417	DKC 8191
2.	BLSB (R- 1) (MR- 2)	DKC9190	DKC 8191, LMH1417
3.	BSR (R- 2) (MR-2)	DKC 8191, JKMH 15303	DKC9190, LMH1417
AVT I II (early maturity) (Total No. of Entries = 2) (Table 4)			
S. No.	**Disease**	**Resistant**	**Moderately resistant**
1.	TLB (R-1) (MR- 1)	FH3875	KMH17-89
2.	BLSB	-	-
3.	BSR (MR-1)	-	KMH17-89
QPM I II III (Total No. of Entries = 10)(Table 5)			
S. No.	**Disease**	**Resistant**	**Moderately resistant**
1.	TLB (R-7) (MR-3)	APH1 (Pro vit A), APQH1 (QPM + Pro A), FQH165, LQPMH 219, LQPMH 319, LQPMH118, SQPMH2	FQH140, FQH160, LQPMH 119,
2.	BLSB (R-1) (MR-5)	FQH165	APH1 (Pro vit A), FQH160, LQPMH 119, LQPMH 219, LQPMH118
3.	BSR (R-2) (MR-2)	APQH1 (QPM+Pro A), FQH165	APH1 (Pro vit A), SQPMH2
Baby corn I II III (Total No. of Entries = 5)) (Table 6)			
S. No.	**Disease**	**Resistant**	**Moderately resistant**
1.	TLB (MR-4)	-	AH 5021,AH7043, DBCH326, LBCH 119
2.	BLSB (R-1)	AH 5021	-
3.	BSR (R-1) (MR-2)	AH 5021	DBCH326, LBCH 119
Pop corn I-II-III (Total No. of Entries =4) (Table 7)			
S. No.	**Disease**	**Resistant**	**Moderately resistant**
1.	TLB (MR-4)	-	APCH3, Bajaura Popcorn, LPCH119, LPCH219
2.	BLSB (R-1)	LPCH219	-
3.	BSR (MR-1)	-	APCH3
Sweet corn I-II-III Maturity (Total No. of Entries = 5) (Table 8)			
S. No.	**Disease**	**Resistant**	**Moderately resistant**
1.	TLB (R-1) (MR-4)	FSCH 128,	DSCH325, LSC 119, Nuzi205, Punjab Sweetcorn 219
2.	BLSB (MR-1)	-	LSC 119
3.	BSR (MR-2)	-	DSCH325, LSC 119
OPVs (Total No. of Entries = 8)) (Table 9)			
S. No.	**Disease**	**Resistant**	**Moderately resistant**
1.	TLB (MR-8)	-	KDM25, KDM26, L315, L316,L-317, RCM 1-61, RCM1-76,VLQPM composite2
2.	BLSB	-	-
3.	BSR (MR-3)	-	KDM25, L315, L316

B. **North West Plain Zone (NWPZ)**

NIVT (late maturity) (Total No. of Entries =55)) (Table 10)			
S. No.	**Disease**	**Resistance**	**Moderate resistance**
1.	MLB (R-13) (MR-40)	AH1645, BH 417202, GK 3218, IMHSB-19K-14, JH 18056, JH 18087, NMH 4313, PM 19105 L, PM 19110 L, Rasi 6597, SBMH 1817, SVMH 1627, VNR4343	ADV7713, AH 8072, AH 8753, AH4139, AH4272, AH5158, BRMH-17068, CMH-15-006,CMH-15-008, CP 555, CP 802, DKC 9207, GH16352, HT 519074, IM12723,IMHVS-102, IMHSB-19K-12, IMHSB-19K-13, JH 17011,JH 18057, JH 18091, JH 18088, KH 2193,KH 5146, KMH-8322, MM2424, PM 19104L, PM 19106 L, PM 19107 L, PM 19108 L, PM 19109 L, PM 19111 L, QMH-1604, QMH-1697, QMH-16101, QMH-1617, Rasi 70574, SYN916801, TMMH 853, VNR37650
2.	BLSB (MR-9)	-	HT 519074, IMHSB-19K-12, IMHVS-102, JH 18056, JH 18091, PM 19107 L, PM 19111 L, SVMH 1627, SYN916801
3.	C Rot (MR-17)	-	CMH-15-006, CP 802, DKC 9207, GK 3218, JH 18057, JH 18088, KMH-8333, PM 19104L, PM 19107 L, PM 19108 L, PM 19109 L, PM 19110 L, PM 19111 L, Rasi 6597,Rasi 70574, SVMH 1627,VNR37650
4.	BSR	-	-
NIVT (medium maturity) (Total No. of Entries = 39)(Table 11)			
S. No.	**Disease**	**Resistance**	**Moderate resistance**
1.	MLB (R-6) (MR-24)	AH 8452, AH4167, BH 417182, BH 417193, CMH-12-686, KNMH 4192,	AH 8245 R, AH1625, AH1634, BAU-MH-18-3,BH 417152, CMH-15-012, DH 327, DH 328, EH 3638, HMM 1014, HMM 1019, IMHL-K-19-1, JH 18099, JH 18064, JH 18065, JH 32104, KNMH 4191, LMH 4219, LMH 4319, LMH 4419, OMH17-19,OMH17-24, VaMH 16008, RCRMH 14
2.	BLSB (MR-16)	-	AH 8452, AH1625, AH1634, BAU-MH-18-2,BH 417152, BH 417182, BH 417193, DH 328, IMHL-K-19-1, JH 18099, JH 32104, KMH 18-42, KNMH 4194, LMH 4119, LMH 4419, RCRMH 14
3.	C Rot (R-1) (MR-15)	KNMH 4192	AH 8245 R, AH 8452, AH1625, AH1634, AH4167, BH 417152, BH 417182, BH 417193, CMH-12-686, EH 3638, HMM 1019, JH 18064, JH 18065, KNMH 4191, OMH17-19
4.	BSR	-	-

NIVT A (medium maturity) (Total No. of Entries =39) (Table 12)			
S. No.	**Disease**	**Resistance**	**Moderate resistance**
1.	MLB (R-8) (MR-31)	DKC 8209, GGMH-114, HKH-372,HM 19305, IMHSB-19K-7,JKMH 1481, KH 518, NMH 4144,	ADV 7745, DKC 8205, GK 3207,HKH-371, HM 19203, HT 519015, IAHM 2016-38, IAHM2016-2, IIMWH 1901, IMHSB-19K-11, IMHSB-19K-2, IMHSB-19K-3, IMHSB-19K-4, IMHSB-19K-5, IMHSB-19K-6, IMHSB-19K-8, IMHSB-19K-9, IMHSB-19K-10, IMHVS-101, KSP-5391, MH 1945, MH 1948, NMH 4144, PM 19101 M, PM 19102 M, PM 19103 M, SVMH-1130, SYN-916248, SYN916540, TS 2609, SYN916701
2.	BLSB (MR-15)	-	HM 19203, IMHSB-19K-10,IMHSB-19K-11,IMHSB-19K-2,IMHSB-19K-3,IMHSB-19K-6,IMHSB-19K-9, IMHVS-101, KSP-5391, MH 1945, MH 1948, PM 19102 M, PM 19103 M,SVMH-1130,SYN-916248
3.	C Rot (MR-9)	-	GGMH-114, HM 19305,IAHM 2016-38, IIMWH 1901,IMHSB-19K-7, MH 1945,PM 19102 M, SYN-916248, SYN916701
4.	BSR	-	-
NIVT (early maturity) (Total No. of Entries = 28)(Table 13)			
S. No.	**Disease**	**Resistance**	**Moderate resistance**
1.	MLB (R-2) (MR-18)	AH 8323, AH1608	AH 8178, AH 8622, BAU-MH-18-1, DH 321, DH 330, DKC 7204, EH 3524, EH 3571,HKH 370, IMHSB-19K-1, JH 32006, JH 32328, JH 32375, JH 32385, KMH 18-15, KNMH 4193, LMH 1946, Rasi 50252
2.	BLSB (MR-7)	-	AH 8323, BAU-MH-18-1, EH 3571, HKH 370, JH 32375,JH 32385, KH 102E
3.	C Rot (MR-10)	-	AH 8323, AH 8622, AH1608, DH 321, FH 3912, JH 32385, JH 32391, KH 102E, KNMH 4193, Rasi 50252
4.	BSR	-	-
AVT I II (late maturity) (Total No. of Entries = 27)(Table 14)			
S. No.	**Disease**	**Resistance**	**Moderate resistance**
1.	MLB (R-5) (MR-22)	JH 16041, KMH 463,PM 18106 L, Rasi 4992,SUPER 1818	ADV 1390064,ADV 1390164,ADV 7132,B57,BLH 137,Bio 218,Bio 534,HT 17169, CP 858, JH 16081,JH 16224,JH 17026,JKMH 150375,KMH 005, PM 18101 L,PM 18104 L,PM 18105 L,RCM 1-61,RCM 1-76,Rasi 3499, SYN816514,TS 2505

2.	BLSB (MR-15)	-	ADV 1390164, ADV 7132,B57,BLH 137, CP 858, JH 16041, JH 16224, JH 17026, JKMH 150375, KMH 463, PM 18106 L, RCM 1-61, RCM 1-76, Rasi 3499, Rasi 4992
3.	C Rot (MR-5)	-	ADV 1390164, Bio 218, Bio 534 CP 858, HT 17169
4.	BSR	-	-
AVT I II (medium maturity) (Total No. of Entries = 33)(Table 15)			
S. No.	**Disease**	**Resistance**	**Moderate resistance**
1.	MLB(R-3) (MR-29)	AH 7067R, DKC 8181, DKC 9190	AH4271, BH 416032, BH416215, BLH 118, CAH 1511, DKC 9194, DKC 9198, HT 18607, IMHBG-17K-15, IMHBG-17 K-17, INDAM 1122, INDAM 1118, JH 16045, JKMH 15303, JKMH1518, KNMH 4181, KMH 004, LMH 3417, LMH 1016,MM9309, NMH 4053, OMH 17-47, PM 17102 M, PM 18107 M, RCRMH 2, RCRMH 7, TUFAN, SYN816604, ZH 161032
2.	BLSB (MR-2)	-	IMHBG-17K-15, NMH 4053
3.	C Rot (MR-10)	-	BH 416032, BH416215, DKC 9198 IMHBG-17 K-17, INDAM 1122 JKMH 15303, LMH 1016, PM 17102 M, TUFAN, ZH 161032
4.	BSR	-	-
AVT I II (early maturity) (Total No. of Entries = 9) (Table 16)			
S. No.	**Disease**	**Resistance**	**Moderate resistance**
1.	MLB (R-2) (MR-7)	JH 31947, JH 32094	AH 8181, FH 3861, FH 3879, JH 31950, JH 32014, JH 32056, JH 32057
2.	BLSB	-	-
3.	C Rot (MR-2)	-	FH 3879, JH 31950
4.	BSR (MR-2)	-	-
QPM I II III (Total No. of Entries = 16))(Table 17)			
S. No.	**Disease**	**Resistance**	**Moderate resistance**
1.	MLB (MR-13)	-	APH 1 (PROA), APH 2 (PROA), APH 3(PROA), APQH 8 (QPM +PROA) ,IIMRQPMH 1705, IIMRQPMH 1708, IQPMH-18-2, IQPMH-18-4, IQPMH-19-1, IQPMH-19-2, IQPMH-19-3, QPM MH-51
2.	BLSB (MR-3)	-	APH 1 (PROA), IIMRQPMH 1708, IQPMH-19-2
3.	C Rot (R-1) (MR-7)	IQPMH-19-4	APH 1 (PROA), APQH 1 (QPM +PROA) , APQH 8 (QPM+PROA), IQPMH-18-2, IQPMH-19-1, IQPMH-19-2, VEHQ 16-1
4.	BSR	-	-

Baby corn I II III (Total No. of Entries =13))(Table 18)			
S. No.	**Disease**	**Resistance**	**Moderate resistance**
1.	MLB (MR-11)	-	ABHS4-1,ABHS4-2, AH 7043, AH 7188, AHB 7985, BAU BCH 18-1,DBCH 326, IMHSB-19KB-1, IMHSB-19KB-2, LMH 3517,PAC 321
2.	BLSB (MR-1)	-	AH 5021
3.	C Rot (MR-6)	-	AH 7043, AH 7188,DBCH 326, IMHSB-19KB-2,LMH 3517,PAC 321
4.	BSR	-	-
Sweet Corn I II III (Total No. of Entries = 11))(Table 19)			
S. No.	**Disease**	**Resistance**	**Moderate resistance**
1.	MLB (MR-6)	-	CP Sweet 2, CPSC 301, NUZI 205, NUZI 260, Sweet Purple, Top Sweet
2.	BLSB (MR-1)	-	BSCH 417139
3.	C Rot (MR-2)	-	CP Sweet 2, NUZI 260
4.	BSR (MR-1)	-	-
Rainfed (late maturity) (Total No. of Entries =2))(Table 20)			
S. No.	**Disease**	**Resistance**	**Moderate resistance**
1.	MLB (R-1) (MR-1)	CMH 12 -686	CMH 15-005
2	BLSB(MR-1)	-	CMH 15-005
3.	C Rot(MR-2)	-	CMH 12 -686, CMH 15-005
4.	BSR	-	-
Rainfed (medium maturity) (Total No. of Entries =3) (Table 21)			
S. No.	**Disease**	**Resistance**	**Moderate resistance**
1.	MLB (MR-3)	-	CAH1511, VaMH 15036, RCRMH 7(ZH138388)
2	BLSB (MR-1)	-	RCRMH7 (ZH138388)
3.	C Rot (MR-2)	-	CAH1511, RCRMH7 (ZH138388)
4.	BSR	-	-
Rainfed (early maturity) (Total No. of Entries = 3))(Table 22)			
S. No.	**Disease**	**Resistance**	**Moderate resistance**
1.	MLB) (MR-2)	-	ADH 1619, ADH 8106
2	BLSB	-	-
3.	C Rot	-	-
4.	BSR (R-1)	ADH 1619	-

C. **North East Plain Zone (NEPZ):**

NIVT (late maturity) (Total No. of Entries = 55) (Table 23)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	MLB (R-3) (MR-28)	CP 555, JH 18056, SYN916801	BRMH-17068,AH 8753,AH4139,CMH-15-006,DKC 9207, GK 3218, HT 519074, IM 12723, IMHSB-19K-13,JH 18087, JH 18091,KH 2193,KH 5146, KMH-832 2, NMH 4313, PM 19104L, PM 19105 L, PM 19106 L, PM 19107

			L,PM 19108 L, PM 19110 L,PM 19111 L, QMH-161 01 , QMH-1617, QMH-1697, Rasi 6597 ,VNR 37650 ,VNR4343
NIVT (medium maturity) (Total No. of Entries =39) (Table 24)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	MLB (R-2) (MR-17)	AH 8245 R, OMH17-19	AH1625, AH1634, AH4142, AH4167, BH 417152, BH 417182, CMH-12-686,CMH-15-012, DH 328, EH 3638, JH 18064, JH 18065, JH 32104, KNMH 4191, LMH 4419, RCRMH 13, RCRMH 14,
NIVT A (medium maturity) (Total No. of Entries =39) (Table 25)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	MLB (MR-16)	-	ADV 7745,DKC 8209, HM 19203,HM 19305,HT 519015,IAHM 2016-38, IMHSB-19K-2, IMHSB-19K-9, IMHVS-101,JKMH 1481, KH 518,KSP-5391, MH 1941, SYN-916248,SYN916540, TS 2609
NIVT (early maturity) (Total No. of Entries = 28) (Table 26)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	MLB (MR-11)	-	AH 8323, AH1608, DKC 7204, EH 3524, JH 32006, JH 32328, JH 32385, KH 102E, KMH 18-13, KNMH 4193, LMH 1946
AVT I II (late maturity) (Total No. of Entries = 27)(Table 27)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	MLB (MR-6)	-	CP 858, HT 17169, BLH 137, RCM 1-61, Rasi 4992, SYN816514
AVT I II (medium maturity) (Total No. of Entries =33) (Table 28)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	MLB (MR-22)	-	BH 416032,BH416215,BLH 118,CAH 1511,DKC 8181,DKC 9190,DKC 9198, HT 18607, IMHBG-17K-15, INDAM 1118 , JKMH 15303, KMH 004, KNMH 4181, LMH 1016, OMH 17-47, PM 17102 M, PM 18107 M, RCRMH 2,RCRMH 7, SYN 816 604 ,TUFAN,ZH 161032
AVT I II (early maturity) (Total No. of Entries = 9) (Table 29)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	MLB(R-1) (MR-2)	JH 31947	FH 3879, JH 32014
QPM I II III (Total No. of Entries = 16) (Table 30)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	MLB (MR-4)	-	APQH 1 (QPM+PROA), FQH 148, IQPMH-19-2,IQPMH-19-3
Baby corn I II III (Total No. of Entries =13) (Table 31)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	MLB (MR-4)	-	AHB 7985, BAU BCH 18-1, AH 7043,

			IMHSB-19KB-2
Sweet corn I II III (Total No. of Entries = 11) (Table 32)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	MLB (MR-2)	-	CP Sweet 2, NUZI 260
Rainfed (late maturity) (No. of Entries=2)(Table 33)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	MLB (MR-1)	-	CMH 12 -686
Rainfed (medium maturity) (No. of Entries= 4)(Table 34)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	MLB (MR-1)	-	OMH14-27
Rainfed (early maturity) (Total No. of Entries = 2) (Table 35)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	MLB	-	-

D. **Peninsular Zone (PZ)**

NIVT (late maturity) (Total No. of Entries =55) (Table 36)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	TLB (MR-34)	-	AH1645, AH4272, BH 417202 BRMH-17068, CP 555, DKC 9207, GK 3218, HT 519074, IMHSB-19K-13, IMHSB-19K-14, IMHVS-102, JH 17011, JH 18056, JH 18057, JH 18087, JH 18088, KMH-8322, KMH-8333, MM2424, NMH 4313, PM 19104L, PM 19105 L, PM 19106 L, PM 19107 L, PM 19108 L, PM 19109 L, PM 19110 L, PM 19111 L,QMH-16101, Rasi 6597, SBMH1817, SVMH 1627, VNR37650, SYN916801
2.	BLSB (MR-03)	-	BRMH-17068, IMHSB-19K-13, PM 19111 L
3.	C Rot (MR-45)	-	ADV7713, AH 8072, AH1645, AH4272, AH5158, BH 417202, BRMH-17068, CMH-15-006, CMH-15-008, CP 555, CP 802, DKC 9207, GK 3218, HT 519074, IM12723, IMHSB-19K-14, IMHVS-102, JH 17011, JH 18056, JH 18057, JH 18087, JH 18088, JH 18091, KH 2193, KH 5146, KMH-8322, KMH-8333, MM2424, NMH 4313, PM 19104L, PM 19105 L, PM 19106 L, PM 19107 L, PM 19108 L, PM 19109 L, PM 19110 L, PM 19111 L, QMH-1604, QMH-1617, Rasi 6597, SBMH 1817, SVMH 1627, VNR37650, VNR4343, SYN916801
4.	SDM	-	-
NIVT (medium maturity) (Total No. of Entries =39) (Table 37)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	TLB (R-01) (MR-27)	AH1634	AH 8245 R, AH 8452, AH1625 AH4167, BAU-MH-18-2, BH 417152, BH 417182, BH 417193, CMH-12-686,

			CMH-15-012, DH 327, DH 328, EH 3638, JH 18064, JH 18065, JH 18099, JH 32104, KNMH 4191, KNMH 4192, KNMH 4194, LMH 4119, LMH 4219, LMH 4319, LMH 4419, OMH17-19, VaMH 16008, RCRMH 14
2.	BLSB (MR-01)	-	KNMH 4194
3.	C Rot (MR-29)	-	AH 8245 R, AH1625, AH1634, AH4142, BAU-MH-18-2, BAU-MH-18-3, BH 417152, BH 417182, BH 417193, CMH-12-686, CMH-15-012, DH 327, EH 3638, IYH 1603, JH 18064, JH 18065, JH 18099, JH 32104, KMH 18-42, KMH 18-71, KNMH 4191, KNMH 4192, KNMH 4194, LMH 4119, LMH 4219, LMH 4319, LMH 4419, OMH17-19, RCRMH 13
4.	SDM (R-01)	AH1625	-
NIVT A (medium maturity) (Total No. of Entries =39) (Table 38)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	TLB (R-02) (MR-29)	HM 19305, SYN916701	ADV 7745, DKC 8205, DKC 8209, GGMH-114, HKH-371, HKH-372, HT 519015, IAHM 2016-38, IAHM2016-2, IIMWH 1901, IMHSB-19K-2, IMHSB-19K-10, IMHSB-19K-11, IMHSB-19K-4, IMHSB-19K-6,IMHSB-19K-7, IMHSB-19K-8, IMHSB-19K-9, IMHVS-101, JKMH 1481, KH 518, MH 1941, NMH 4144, PM 19101 M, PM 19103 M,SVMH-1130, SYN-916248, SYN916540, TS 2609
2.	BLSB	-	-
3.	C Rot (MR-36)	-	ADV 7745, DKC 8205, DKC 8209, GGMH-114, GK 3207, HKH-371, HKH-372, HM 19203, HM 19305, HT 519015,IAHM 2016-38, IAHM2016-2, IIMWH 1901, IMHSB-19K-10, IMHSB-19K-11,IMHSB-19K-2, IMHSB-19K-4, IMHSB-19K-5, IMHSB-19K-6, IMHSB-19K-7, IMHSB-19K-8, IMHSB-19K-9, IMHVS-101, JKMH 1481, KH 518, MH 1945, MH 1948, NMH 4144, PM 19101 M, PM 19102 M, PM 19103 M, SVMH-1130, SYN-916248, SYN916540, TS 2609, SYN916701
4.	SDM	-	-
NIVT (early maturity) (Total No. of Entries =28) (Table 39)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	TLB (MR-14)	-	AH 8178, AH 8323, AH 8622, AH1608,

			DKC 7204, EH 3524, EH 3571, FH 3912 JH 32375, KH 102E, KNMH 4193, VEH18-1, LMH 1946, Rasi 50252
2.	BLSB (MR-02)	-	DKC 7204, JH 32328
3.	C Rot (MR-08)	-	AH 8178, AH 8323, AH1608, HKH 370, JH 32328, JH 32375, KMH 18-15, KNMH 4193
4.	SDM	-	-
AVT I II (late maturity) (Total No. of Entries =27) (Table 40)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	TLB(MR-19)	-	ADV 7132, BLH 137, Bio 218, Bio 534, CP 858, HT 17169, JH 16081, JH 17026, KMH 005, PM 18101 L, PM 18104 L, PM 18105 L, PM 18106 L, RCM 1-61, Rasi 3499, Rasi 4992, SUPER 1818, TS 2505, SYN816514
2.	BLSB(MR-21)	-	ADV 1390064, ADV 1390164, ADV 7132, B57, BLH 137, Bio 218, Bio 534, JH 16081, JH 16224, JH 17026, JKMH 150375, KMH 463, PM 18101 L, PM 18105 L, PM 18106 L, RCM 1-76, Rasi 3499, Rasi 4992, SUPER 1818, TS 2505, SYN816514
3.	C Rot (MR-24)	-	ADV 1390064, ADV 1390164, ADV 7132, B57, BLH 137, Bio 218, Bio 534, CP 858, HT 17169, JH 16041, JH 16081, JH 16224, JH 17026, KMH 005, KMH 463, PM 18101 L, PM 18104 L, PM 18105 L, PM 18106 L, RCM 1-76, Rasi 3499, Rasi 4992, SUPER 1818, TS 2505
4.	SDM (R-03) (MR-04)	SYN816514, ADV 1390164, ADV 7132	ADV 1390064, BLH 137, Bio 218, JH 16081
AVT I II (medium maturity) (Total No. of Entries =33) (Table 41)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	TLB (R-04) (MR-22)	DKC 9190, INDAM 1122, LMH 1016, LMH 3417	AH 7067R, BH 416032, BH416215, BLH 118, CAH 1511, DKC 8181, DKC 9194, DKC 9198, HT 18607, IMHBG-17 K-17, IMHBG-17K-15, JKMH 15303, KNMH 4181, MM9309, NMH 4053, OMH 17-47, PM 18107 M, RCRMH 2, RCRMH 7, TUFAN, SYN816604, ZH161032
2.	BLSB	-	-
3.	C Rot (R-01) (MR-31)	BH416215	AH 7067R, AH4271, BH 416032, BLH 118, CAH 1511, DKC 8181, DKC 9190, DKC 9194,DKC 9198, HT 18607, IMHBG-17 K-17, IMHBG-17K-15, INDAM 1122, JH 16045, JKMH 15303, JKMH1518, KMH 004, KMH 16-29, KNMH 4181, LMH 1016, LMH 3417, MM9309, NMH 4053, OMH 17-47, PM 17102 M, PM 18107 M,

			RCRMH 2, RCRMH 7, TUFAN, SYN 816604, ZH161032
4.	SDM (R-02) (MR-2)	BH416215, NMH 4053	DKC 8181, JKMH1518
AVT I II (early maturity) (Total No. of Entries = 9) (Table 42)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	TLB (R-01) (MR-7)	AH 8181	FH 3861, FH 3879, JH 31947, JH 31950, JH 32014, JH 32056, JH 32057
2.	BLSB	-	-
3.	C Rot (MR-8)	-	FH 3861, FH 3879, JH 31947, JH 31950, JH 32014, JH 32056, JH 32057, JH 32094
4.	SDM	-	-
QPM I II III (Total No. of Entries =16) (Table 43)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	TLB (R-02) (MR-10)	APQH 1 (QPM+PROA), IQPMH-19-2	APH 1 (PROA), APH 2 (PROA), APH3 (PROA), APQH 8 (QPM+PROA), FQH 148, IMRQPMH 1708, IQPMH-18-4, IQPMH-19-1, IQPMH-19-3, QPM MH-51
2.	BLSB (R-01) (MR-04)	IQPMH-18-4	IIMRQPMH 1708, IQPMH-18-2, IQPMH-19-1, QPM MH-51
3.	C Rot (MR-13)	-	APH 1 (PROA), APH 2 (PROA), APH3 (PROA), APQH 1 (QPM+PROA), APQH 8 (QPM+PROA), IIMRQPMH 1705, IQPMH-18-2, IQPMH-19-1, IQPMH-19-2,IQPMH-19-3, IQPMH-19-4, VEHQ 16-1, QPM MH-51
4.	SDM	-	-
Baby corn I II III (Total No. of Entries = 13) (Table 44)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	TLB (MR-04)	-	AH 7043, AHB 7985, IMHSB-19KB-1, PAC 321
2.	BLSB (MR-03)	-	LMH 3517, DBCH 326, AH 7188
3.	C Rot (MR-06)	-	IMHSB-19KB-1, IMHSB-19KB-2, AHB 7985, AH 5021, AH 7043, AH 7188
4.	SDM (R-01)	IMHSB-19KB-2	-
Sweet corn I II III (Total No. of Entries =11) (Table 45)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	TLB	-	-
2.	BLSB (MR-1)	-	BSCH 417139
3.	C ROT	-	-
4.	SDM	-	-
Rainfed (late maturity) (Total No. of Entries =2) (Table 46)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	TLB (R-01) (MR-01)	CMH 15-005	CMH 12 -686
2.	BLSB (MR-01)	-	CMH 15-005
3.	C Rot (MR-02)	-	CMH 15-005, CMH 12 -686

4.	SDM	-	-
Rainfed (medium maturity) (Total No. of Entries =4) (Table 47)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	TLB (MR-04)	-	CAH1511, OMH14-27, VaMH 15036, RCRMH7(ZH138388)
2.	BLSB (MR-02)	-	OMH14-27, VaMH 15036
3.	C Rot (MR-03)	-	CAH1511, OMH14-27, RCRMH7(ZH138388)
4.	SDM	-	-
Rainfed (early maturity) (Total No. of Entries = 3) (Table 48)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	TLB (MR-02)	-	ADH 1619, ADH 8106
2.	BLSB(R-01) (MR-01)	ADH 8106	ADH 1619
3.	C Rot (MR- 2)	-	ADH 1619, ADH 8106
4.	SDM	-	-

E. Central Western Zone (CWZ)

NIVT (late maturity) (No. of Entries= 55) (Table 49)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	FSR	-	-
2.	CLS	-	-
3.	RDM	-	-
NIVT (medium maturity) (No. of Entries= 39) (Table 50)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	FSR (R-6) (MR-29)	AH 8245 R, AH1625, BH 417152, DH 327, IMHL-K-19-1, KNMH 4191	AH1634, AH4142, AH4167,BAU-MH-18-2,BAU-MH-18-3, BH 417182, BH 417193, CMH-12-686,CMH-15-012, DH 328, EH 3638, HMM 1014, HMM 1019, IYH 1603, JH 18064, JH 18099, JH 32104,KMH 18-42, KMH 18-71, KNMH 4192, KNMH 4194, LMH 4119, LMH 4219, LMH 4419, OMH17-19, OMH17-24, RCRMH 13, RCRMH 14,VaMH 16008
2.	CLS	-	-
3.	RDM	-	-
NIVT A (medium maturity) (Total No. of Entries = 39) (Table 51)			
S. No.	**Disease**	**Resistant**	**Moderately resistant**
1.	FSR (R-5) (MR-24)	DKC 8205, HM 19305, IMHSB-19K-2 MH 1945, PM 19103 M	DKC 8209,GK 3207, HKH-371,HKH-372, HM 19203, HT 519015,IAHM 2016-38, IAHM2016-2, IIMWH 1901, IMHSB-19K-3, IMHSB-19K-4, IMHSB-19K-5, IMHSB-19K-6, IMHSB-19K-8, IMHSB-19K-9,IMHVS-101, JKMH 1481, KSP-5391, MH 1941, NMH 4144, PM 19101 M,,PM 19102 M, SVMH-1130, SYN-916248
2.	CLS	-	-
3.	RDM	-	-

NIVT (early maturity) (No. of Entries= 28) (Table 52)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	FSR	-	-
2.	CLS	-	-
3.	RDM	-	-
AVT I II (late maturity) (No. of Entries= 27) (Table 53)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	FSR (MR-16)	-	ADV 7132, B57, BLH 137, Bio 218, Bio 534, CP 858, HT 17169, JH 16041, JH 16224, KMH 005, PM 18101 L, PM 18104 L, PM 18106 L, RCM 1-61, Rasi 3499, TS 2505
2.	CLS	-	-
3.	RDM	-	-
AVT I II (medium maturity) (No. of Entries= 33) (Table 54)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	FSR(MR-14)	-	AH 7067R, AH4271, CAH 1511, DKC 9190, DKC 9194, DKC 9198, HT 18607, INDAM 1122, JKMH 15303, JKMH1518, KMH 004, PM 18107 M, SYN816604, ZH161032
2.	CLS	-	-
3.	RDM	-	-
AVT I II (early maturity) (No. of Entries= 9) (Table 55)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	FSR	-	-
2.	CLS	-	-
3.	RDM	-	-
QPM I II III (No. of Entries=16) (Table 56)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	FSR(R-4) (MR-5)	IIMRQPMH 1705, IIMRQPMH 1708, IQPMH-18-4, IQPMH-19-3	APH 1 (PROA), APH3 (PROA), IQPMH-19-4, QPM MH-51, VEHQ 16-1
2.	CLS	-	-
3.	RDM	-	-
Baby corn I II III (No. of Entries= 13) (Table 57)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	FSR(R-1) (MR-4)	DBCH 326	ABHS4-2, AH 5021, IMHSB-19KB-1, PAC321
2.	CLS	-	-
3.	RDM	-	-
Sweet corn I II III (No. of Entries=11) (Table 58)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	FSR	-	-
2.	CLS	-	-
3.	RDM	-	-
Rainfed (late maturity) (No. of Entries=2) (Table 59)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	FSR	-	-
2.	CLS	-	-

3.	RDM	-	-
Rainfed (medium maturity) (No. of Entries= 4) (Table 60)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	FSR	-	-
2.	CLS	-	-
Rainfed (early maturity) (No. of Entries= 2) (Table 61)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	FSR	-	-
2.	CLS	-	-
3.	RDM	-	-

a. Cyst Nematode

NIVT (late maturity) (No. of Entries= 55) (Table 62)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	CN (MR-3)		AH4272, Rasi 6597, PM 19111 L
NIVT (medium maturity) (No. of Entries= 39) (Table 63)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	CN (MR-4)	-	CMH-12-686, BH 417193, EH 3638, AH1634
NIVT (early maturity) (No. of Entries= 28) (Table 64)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	CN (MR-1)	-	DKC 7204,
AVT I II (late maturity) (No. of Entries= 27) (Table 65)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	CN (MR-2)	-	JH 17026, PM 18104 L
AVT I II (medium maturity) (No. of Entries= 33) (Table 66)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	CN (MR-1)		IMHBG-17K-17
AVT I II (early maturity) (No. of Entries= 9) (Table 67)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	CN	-	-
QPM I II III (No. of Entries=16) (Table 68)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	CN (MR-2)	-	APH 1 (PROA), IIMRQPMH1708
Baby corn I II III (No. of Entries= 13) (Table 69)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	CN	-	-
Sweet corn I II III (No. of Entries=11) (Table 70)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	CN (MR-1)	-	VaMH 12014
Rainfed (No. of Entries=8) (Table 71)			
S. No.	**Disease**	**Resistant**	**Moderate Resistant**
1.	CN (MR-2)	-	CAH1511, CMH 15-005

MPT 15. Disease screening of maize germplasm

(i). CIMMYT maize germplasm were screened under ICAR-CIMMYT collaboration programme at different hot spot locations against TLB at Larnoo (Kashmir), Gangtok (Sikkim), Mandya and BLSB at Ludhiana and Karnal. The promising entries are given in Table 73 to 77.

(ii). Details of screening of inbred lines contributed from different AICRP centres and IIMR for different diseases has been mentioned from Tables 78 to 91.

MPT 16. Assessment of avoidable yield losses due to major diseases of maize

Yield losses due to major diseases of maize were assessed at Bajaura (TLB), Dhaulakuan (MLB), Kalyani (MLB), Pant Nagar (MLB) and Udaipur (MLB) and centres under artificially created epiphytotics (Table 92 to 93). Yield losses were assessed up to 20.13 due to TLB. In case of MLB the losses were assessed up to 24.81, 22.41, 24.13 and 15.13 at Dhaulakuan, Kalyani, Pant Nagar and Udaipur respectively.

MPT 17. Maize diseases in trap nursery trial

Trap nursery trial was conducted to find out the occurrence of disease(s) including newer ones on maize at various locations viz., Almora, Dhaulakuan, Imphal, Delhi, Karnal, Ludhiana, Pantnagar, Dholi, Kalyani, Udaipur, Godhra, Rahuri, Coimbatore, Bajaura, Dharwad, Mandya, Hyderabad and Peddapuram. Diseases recorded in these locations were MLB, TLB, BLSB, CLS, Brown Spot, PFSR, C.Rot, C.Rust, P. Rust and Bacterial stalk rot in trace to high intensities (Table 94).

MPT 18. Survey and surveillance of maize diseases

Disease survey and surveillance was undertaken in maize growing areas of Himachal Pradesh (Dhaulakuan, Bajaura), Manipur (Imphal), Delhi, Haryana (Karnal), Punjab (Ludhiana), Uttarakhand (Pantnagar), North Bihar (Dholi), West Bengal (Kalyani), Southern Rajasthan (Udaipur), Gujarat (Godhra), Northern Karnataka (Dharwad), Southern Karnataka (Mandya), Telangana (Hyderabad), Andhra Pradesh (Peddapuram), Maharashtra (Rahuri) and Tamil Nadu (Coimbatore) during the *kharif* 2019 Table 95 to 112.

MPT 19. Efficacy of fungicides and bioproducts in control of TLB at Imphal

Seed treatment and foliar application of Azoxystrobin 18.2 w/w +Difenoconozole11.4% w/w SC@ 0.10% at 35 and 45 DAS found significantly superior with respect to disease control (49.4%) and increase in yield (31.8%) (Table 113).

MPT 20. Efficacy of different components in management of charcoal rot at Hyderabad

In control plot the disease incidence recorded was 42.3% where as significant reduction in disease incidence and improvement in yield was observed in all the treatments imposed. Among all the treatments Soil application of Vermicompost enriched with T. viride (2x109cfu/g) @ 250 kg/ha was found to be the best treatment in terms of disease reduction and increased grain yield during *kharif*-2019 (Table 114).

MPT 21. Efficacy of fungicides in control of maize diseases

I. The maximum disease control (77.2%) was in treatment of Azoxystrobin 7.5% +Propiconazole 12.5% SE @ 0.20% at 3 days and 18 days after inoculation against TLB at Bajaura (Table 115).
II. Among the various treatments T4 (Azoxystrobin 18.2 w/w + Difenoconozole11.4% w/w SC@ 0.10% spray at 3 days and 18 days after inoculation) was observed best in checking turcicum leaf blight (TLB) disease severity (24.11%) resulted in highest grain (54.58 q/ha) with 44.97% yield increase over untreated control at Godhra(Table 116).
III. The maximum disease control 69.9%and 61.73 %for the treatment of Pyraclostrobin 133g/l + Epoxiconazole 50g/l SE @ 0.15% at 3 days and 18 days after inoculation against MLB at Karnal (Table 117) and Ludhiana (Table 118) respectively.

IV. The maximum disease control (69.15%) for the treatment of Azoxystrobin 18.2% w/w + Difenoconazole 11.4% w/w SC @ 0.10% spray at 3 days and 18 days after inoculation against TLB at Mandya(Table 119).
V. The maximum disease control (94.2%) for the Seed treatment with metalaxyl + mancozeb WS [3 g/kg of seed], Foliar spray with Azoxystrobin 18.2% w/w + Difenoconazole 11.4% w/w SC @0.1% using 500 l water/ha at 30 DAS against SDM at Mandya (Table 120).
VI. Foliar application of Tebuconazole 250 EC, Azoxystrobin 18.23% + Difenconazole 11.4% Trifloxystrobin 25% + Tebuconazole 50% and Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l 500 SC @ 0.1% found significantly superier with respect to disease control efficacy and increase in yield over untreated check to manage the TLB at Dharwad(Table 121).

MPT 22. Testing of cow products for the management of maize cyst nematode at Udaipur

Among all the cow products Panchgavya@20%w/v found most effective to reduce Females /5 g root (31.43%), Cyst/ 100 cc soil (29.76%) and Final larvae/100 cc soil (34.49%) at Udaipur (Table 122).

MPT 23. Efficacy of different modules for management of downy mildews of maize

(i.) SDM-IDM approach soil amendment with Trichoderma formulation [@ 6t/acre FYM], metalaxyl 35% WS [3g/kg of seed], foliar spray with Azoxystrobim 18.2% w/w + Difenoconazole 11.4% w/w SC @ 0.1% using 500 l water/ha at 30DAS was found most promising to manage the SDM with control of 98.5% at Mandya(Table 123).

(ii.) RDM-IDM approach soil amendment with Trichoderma formulation [@ 6t/acre FYM], metalaxyl 35% WS [3g/kg of seed], foliar spray with Azoxystrobim 18.2% w/w + Difenoconazole 11.4% w/w SC @ 0.1% using 500 l water/ha at 30DAS was found most promising to manage the RDM with control of 42.2% at Udaipur(Table 124).

MPT 24. Efficacy of different modules for management CLS at Godhra

The *kharif*2019 results revealed that all the treatments were found significantly superior over unprotected inorganic check. Among the treatments IDM module (Seed treatment with T. viride @ 10g/kg seed and Thiram75 WP @ 3g/kg seed; One foliar application of Nimbicidine 5ml/litre of water @ 35 DAS and one foliar application Azoxystrobin 18.2% + Difenoconazole 11.4% (29.6 SC) @ 1 ml/litre of water @ 50 DAS) was observed best in checking curvularia leaf spot (CLS) disease severity (26.72%) resulted in highest grain (53.64 q/ha) with 36.38% yield increase over unprotected organic check (Table 125).

MPT 25. Efficacy of different modules for management MLB at Kalyani

IDM module (Seed treatment with Trichoderma harzianum @ 10g/kg of seed + foliar spray of Pseudomonas fluorescens @ 10g/l of water at 35 DAS + foliar spray of Azoxystrobin 18.2% + Difenconazole 11.4% w/w SC (Amister Top 325 SC) 1ml/l of water at 40 DAS + oliar spray of cow urine (20%) at 50 DAS showed the best result in management of MLB at Kalyani(Table 126).

MPT 26. Efficacy of different modules for management TLB

(i.)Dharwad- Seed tretment with T. harzianum @ 10g/kg seed + Thiram 75WP @ 2g/kg seed, foliar application of Nimbicidine @ 5ml/litre @ 35 DAS, followed by Azoxystrobin 18.2% + Difenconazole 11.4% (Amistar Top) @ 1 ml/ litre of water at 35-40 days after sowing recorded 57.35% TLB disease control efficacy and 33.64% increase in grain yield over unproteceted organic check(Table 127).

(ii.)Mandya- Seed treatment with T. harzianum @ 10g/kg of seed, Foliar spray of Pseudomonas fluorescens @ 10g/l of water at 35 DAS, Foliar spray of Azoxystrobin 18.2% +Difenconazole 11.4 %

(Amistar Top 325 SC) @ 1 ml/litre of water at 50 DAS recorded 72.2% control over unproteceted organic check(Table 128).

MPT 27. Evaluation of Panchgavya for the management of TLB at Bajaura

Two sprays of Panchgavya @ 8% 80 ml/l was found most effective to manage the TLB with 38.3 per cent of disease control over water control check (Table 129).

MPT28. Efficacy of fungicides on incidence of TLB at CAU Imphal

Foliar application of Azoxystrobin 18.2 w/w +Difenoconozole11.4% w/w SC@ 0.10% found significantly superior with respect to disease control (56.6%) but the next best fungicide and highest increased in yield was found in Pyraclostrobin 133g/l + Epoxiconazole 50g/l SE @ 0.15% with 32.8% at Imphal (Table 130).

Table 1. Screening of NIVT(medium maturity) maize hybrids in NHZ

S. No.	Genotype	TLB (1-9)					BLSB (1-9)		BSR (%)	
		ALMO*	BAJA	LARN	Av Score	Reaction	DHAU	Reaction	DHAU	Reaction
1	AH1625	1.0	2.5	3.0	2.8	R	4.5	MR	3.6	R
2	AH1634	2.0	2.5	3.5	3.0	R	3.5	MR	33.7	MS
3	AH4142	4.0	3.0	4.0	3.5	MR	6.5	MS	10.6	MR
4	AH4167	1.0	3.0	3.5	3.3	MR	3.5	MR	46.5	MS
5	AH8245 R	2.0	2.0	3.0	2.5	R	5.5	MS	22.5	MR
6	AH8452	1.5	2.5	4.0	3.3	MR	4.0	MR	15.5	MR
7	DH323	1.0	2.5	3.5	3.0	R	4.5	MR	22.5	MR
8	DH324	1.0	3.0	4.0	3.5	MR	5.0	MR	5.0	R
9	DKC8205	2.0	2.0	3.0	2.5	R	6.5	MS	0.0	R
10	DKC8209	2.0	3.0	3.5	3.3	MR	3.5	MR	0.0	R
11	HKH372	1.0	2.0	4.0	3.0	R	5.5	MS	0.0	R
12	JKMH1481	1.0	2.5	3.5	3.0	R	5.5	MS	0.0	R
13	KMH1842	4.0	3.0	5.0	4.0	MR	4.5	MR	50.6	S
14	KMH1871	4.0	2.5	3.0	2.8	R	7.5	S	11.2	MR
15	LMH4119	3.0	3.0	3.5	3.3	MR	8.0	S	12.8	MR
16	LMH4219	3.0	2.5	3.5	3.0	R	6.5	MS	11.3	MR
17	LMH4319	1.0	3.0	4.0	3.5	MR	4.0	MR	0.0	R
18	LMH4419	2.0	2.5	4.0	3.3	MR	7.5	S	10.1	MR
19	Early Composite(C)	4.0	7.0	3.5	5.3	MS	4.0	MR	18.2	MR
20	Dharilocal (C)	5.0	6.5	4.5	5.5	MS	7.0	MS	45.4	MS
21	DHM 121 (C)	1.0	2.5	4.0	3.3	MR	3.5	MR	0.0	R
22	BIO 9544 (C)	1.0	2.5	3.5	3.0	R	5.5	MS	3.1	R
23	CMH08-292 (C)	1.0	3.0	3.0	3.0	R	5.5	MS	12.2	MR
24	VMH 45©	2.0	2.0	3.5	2.8	R	4.5	MR	11.7	MR
Z1	Location Mean	2.1	2.9	3.7			5.3		14.4	
Z2	CV (%)	50.5	16.6	15.5			11.9		24.8	
Z3	F (Prob)	0.0	0.0	0.1			0.0		0.0	
Z4	CD (5%)	2.2	1.0	1.2			1.3		7.4	
Z5	CD (1%)	3.0	1.4	1.6			1.8		10.0	

*The data are not considerd where cv exceed 30 %

Resistant check:- BIO 9544 (TLB)

Susceptible check:- Early Composite(BLSB, BSR); Dharilocal (TLB)

Table 2. Screening of NIVT(early maturity) maize hybrids in NHZ

S.No.	Genotype	TLB(1-9)					BLSB(1-9)		BSR(%)	
		BAJA	LARN*	ALMO	Av score	Reaction	DHAU*	Reaction	DHAU	Reaction
1	AH1608	2.1	4.0	3.3	2.7	R	4.9		1.0	R
2	AH3254	3.2	3.9	3.6	3.4	MR	7.0		36.8	MS
3	AH4045	2.5	4.1	3.4	2.9	R	3.6		1.4	R
4	AH8178	2.5	4.5	1.8	2.1	R	5.9		39.9	MS
5	AH8323	1.9	2.5	0.5	1.2	R	4.4		10.1	MR
6	AH8622	2.7	3.4	3.1	2.9	R	6.5		35.3	MS
7	DH321	1.7	5.6	4.6	3.1	MR	8.0		27.7	MS
8	DH322	1.7	4.1	2.6	2.1	R	5.0		41.9	MS
9	DKC7204	2.4	6.0	5.5	3.9	MR	4.7		10.4	MR
10	FH3900	2.6	3.0	2.3	2.5	R	4.4		54.1	S
11	FH3912	2.5	3.0	3.8	3.1	MR	4.9		43.6	MS
12	FH3917	3.2	3.5	5.3	4.2	MR	5.7		24.1	MR
13	H118	2.9	5.5	2.5	2.7	R	3.9		2.2	R
14	H119	2.5	4.6	5.4	3.9	MR	6.6		16.4	MR
15	H120	2.4	3.5	4.0	3.2	MR	4.7		34.3	MS
16	H121	2.4	4.0	4.5	3.4	MR	3.9		62.2	S
17	HKH370	3.2	3.4	3.6	3.4	MR	5.0		1.0	R
18	HKH371	2.4	5.0	3.5	2.9	R	4.4		30.5	MS
19	KMH1813	3.2	4.5	6.8	5.0	MR	5.2		41.7	MS
20	KMH1815	2.0	4.1	4.4	3.2	MR	4.6		39.7	MS
21	LMH 1945	2.6	3.9	4.7	3.6	MR	4.2		7.5	R
22	LMH 1946	2.2	5.1	2.6	2.4	R	3.5		12.5	MR
23	LMH 1947	2.6	3.4	3.7	3.1	MR	4.7		39.9	MS
24	LMH 1948	2.7	4.5	5.3	4.0	MR	3.7		61.7	S
25	Early Composite(C)	6.2	2.5	6.8	6.5	MS	3.2		50.4	S
26	Dharilocal (C)	7.2	5.1	6.6	6.9	MS	5.0		47.3	MS
27	DKC7074 (C)	2.5	4.6	3.9	3.2	MR	4.1		30.4	MS
28	BIO 605 (C)	2.6	4.4	1.7	2.1	R	6.7		0.0	R
29	PMH5 (C)	5.2	3.9	6.6	5.9	MS	6.5		47.9	MS
30	VIVEK HYB-45 (C)	2.1	3.9	3.7	2.9	R	4.7		18.7	MR
Z1	Location Mean	2.9	4.1	4.0			5.0		28.9	
Z2	CV (%)	17.3	31.2	29.5			31.4		16.2	
Z3	F (Prob)	0.0	0.7	0.0			0.5		0.0	
Z4	CD (5%)	1.0	2.6	2.4			3.2		9.6	
Z5	CD (1%)	1.4	3.6	3.3			4.4		13.0	

*The data are not considerd where cv exceed 30 %

Susceptible check:- Early Composite (BLSB, BSR); Dharilocal (TLB)

Table 3. Screening of AVT I II (medium maturity) maize hybrids in NHZ

S.No.	Genotype	TLB(1-9)							BLSB(1-9)		BSR(%)	
		BAJA	BARA	IMPH	LARN	ALMO	Av.score	Reaction	DHAU	Reaction	DHAU	Reaction
1	DKC 8191	2.5	4.5	2.9	4.0	3.0	3.4	MR	3.5	MR	0.0	R
2	DKC9190	2.0	3.2	1.7	3.5	3.0	2.7	R	1.9	R	10.8	MR
3	JKMH15303	2.0	3.8	2.2	3.5	3.0	2.9	R	7.5	S	0.0	R
4	LMH1417	3.0	1.8	1.5	2.5	2.0	2.2	R	3.5	MR	15.2	MR
5	Early Composite(C)	6.0	6.7	5.3	2.5	3.0	4.7	MR	6.5	MS	20.3	MR
6	Dharilocal (C)	6.0	7.7	4.9	3.5	4.0	5.2	MS	7.5	S	21.6	MR
7	BIO 9544 (C)	2.0	2.5	1.6	4.0	2.0	2.4	R	4.5	MR	10.6	MR
8	CMH08-292 (C)	3.0	1.8	1.6	4.0	1.0	2.3	R	4.5	MR	12.6	MR
9	DHM 121 (C)	2.5	1.9	2.5	3.0	3.0	2.6	R	6.0	MS	0.0	R
10	VMH 45(C)	2.0	3.4	1.8	2.5	3.0	2.5	R	4.0	MR	30.6	MS
Z1	Location Mean	3.1	3.7	2.6	3.3	2.7			5.1		12.2	
Z2	CV (%)	10.8	22.0	10.8	20.7	29.7			12.9		22.5	
Z3	F (Prob)	0.0	0.0	0.0	0.2	0.1			0.0		0.0	
Z4	CD (5%)	0.8	1.8	0.6	1.6	1.8			1.5		6.2	
Z5	CD (1%)	1.1	2.7	0.9	2.2	2.6			2.2		8.9	

Resistant Check:- BIO 9544 (TLB)

Susceptible Check:- Early Composite(BLSB, BSR); Dharilocal(TLB)

Table 4. Screening of AVT I II (early maturity) maize hybrids in NHZ

S.No.	Genotype	TLB(1-9)							BLSB(1-9)		BSR(%)	
		BAJA	BARA	IMPH	LARN	ALMO	Av.score	Reaction	DHAU	Reaction	DHAU	Reaction
1	FH3875	3.0	3.0	1.7	2.5	3.0	2.6	R	7.0	MS	41.2	MS
2	KMH17-89	2.5	6.3	2.6	2.5	5.0	3.8	MR	7.0	MS	22.5	MR
3	LMH 5119 (Filler)	2.5	5.9	1.7	2.5	2.0	2.9	R	6.0	MS	61.5	S
4	Early Composite(C)	5.0	6.9	5.1	3.5	5.0	5.1	MS	7.5	S	15.0	MR
5	BIO 605 (C)	2.0	3.9	1.6	3.0	5.0	3.1	MR	5.5	MS	15.3	MR
6	DKC7074 (C)	3.0	2.6	1.4	3.0	3.0	2.6	R	7.5	S	11.3	MR
7	Dharilocal (C)	6.5	7.5	6.2	2.5	5.0	5.5	MS	6.0	MS	46.9	MS
8	PMH5 (C)	6.0	8.6	6.7	2.5	6.0	6.0	MS	7.0	MS	5.8	R
9	VMH 45(C)	2.5	5.5	1.6	2.0	3.0	2.9	R	6.5	MS	20.0	MR
Z1	Location Mean	3.7	5.6	3.2	2.7	4.1			6.7		26.6	
Z2	CV (%)	12.9	19.1	7.3	23.0	25.0			12.0		17.8	
Z3	F (Prob)	0.0	0.0	0.0	0.5	0.1			0.3		0.0	
Z4	CD (5%)	1.1	2.5	0.5	1.4	2.4			1.8		10.9	
Z5	CD (1%)	1.6	3.6	0.8	2.1	3.5			2.7		15.9	

Susceptible check:- Early Composite(BLSB, BSR); Dharilocal(TLB)

Table 5. Screening of QPM I II III hybrids in NHZ

S.No.	Genotype	TLB(1-9)						BLSB(1-9)		BSR(%)	
		BAJA	BARA*	LARN*	ALMO	Av score	Reaction	DHAU	Reaction	DHAU	Reaction
1	APH1 (Pro vit A)	2.0	2.6	3.0	1.0	1.5	R	4.5	MR	13.9	MR
2	APQH1 (QPM+Pro A)	2.5	2.5	3.5	3.0	2.8	R	6.5	MS	9.8	R
3	FQH140	2.5	3.4	4.5	5.0	3.8	MR	5.5	MS	63.8	S
4	FQH160	3.0	3.4	4.5	4.0	3.5	MR	3.5	MR	46.0	MS
5	FQH165	2.0	5.7	3.5	2.0	2.0	R	2.1	R	0.0	R
6	LQPMH 119	2.5	6.4	3.5	5.0	3.8	MR	3.5	MR	28.8	MS
7	LQPMH 219	2.0	3.1	4.5	3.0	2.5	R	4.5	MR	29.0	MS
8	LQPMH 319	2.0	2.6	2.5	2.0	2.0	R	7.5	S	32.5	MS
9	LQPMH118	2.0	4.9	3.0	2.0	2.0	R	3.5	MR	45.0	MS
10	SQPMH2	3.0	3.1	4.0	3.0	3.0	R	6.5	MS	19.7	MR
11	Early Composite(C)	3.0	4.4	3.0	5.0	4.0	MR	6.5	MS	17.5	MR
12	APQH9 (Check ProVitA)	3.0	2.5	4.0	3.0	3.0	R	-	-	35.7	MS
13	Dharilocal (C)	6.5	6.0	3.0	4.0	5.3	MS	7.0	MS	61.0	S
14	HQPM 7 (C)	2.0	5.6	3.5	2.0	2.0	R	1.0	R	0.0	R
15	HQPM1 (C)	2.5	2.8	3.5	3.0	2.8	R	4.5	MR	17.2	MR
16	HQPM5 (C)	2.0	3.8	3.5	3.0	2.5	R	4.5	MR	13.9	MR
17	Vivek Maize Hybrid 45(C)	2.0	4.4	4.0	5.0	3.5	MR	6.5	MS	49.1	MS
18	Vivek QPM 9 (C)	2.0	2.3	3.0	5.0	3.5	MR	7.5	S	55.0	S
Z1	Location Mean	2.6	4.0	3.6	3.3			5.1		29.6	
Z2	CV (%)	14.8	50.5	34.3	36.3			16.4		18.6	
Z3	F (Prob)	0.0	0.6	0.9	0.1			0.0		0.0	
Z4	CD (5%)	0.8	4.3	2.6	2.6			1.8		11.7	
Z5	CD (1%)	1.1	5.9	3.5	3.5			2.5		16.1	

*The data are not considerd where cv exceed 30 %

Resistant check:- HQPM 1 (CR)

Susceptible check:- Early Composite (BLSB, BSR); Dharilocal (TLB)

Table 6. Screening of baby corn I II III hybrids in NHZ

S.No.	Genotype	TLB(1-9)						BLSB(1-9)		BSR(%)	
		BAJA	BARA	LARN	ALMO*	Av.score	Reaction	DHAU	Reaction	DHAU	Reaction
1	AH 5021	1.9	5.3	4.5	2.0	3.9	MR	1.7	R	1.0	R
2	AH7043	2.0	5.0	3.0	2.0	3.3	MR	6.5	MS	35.0	MS
3	DBCH326	2.0	4.4	4.0	2.5	3.5	MR	5.5	MS	24.5	MR
4	LBCH 119	2.5	5.6	3.5	2.0	3.9	MR	6.5	MS	18.3	MR
5	LBCH 219	4.0	7.9	4.0	5.0	5.3	MS	6.0	MS	34.8	MS
6	Early Composite(C)	6.5	6.6	3.0	5.0	5.4	MS	7.5	S	40.1	MS
7	CMVL BC2 (C)	3.0	6.9	3.0	3.0	4.3	MR	3.5	MR	45.5	MS
8	Dharilocal (C)	6.5	7.3	4.0	4.0	5.9	MS	7.0	MS	33.2	MS
9	HM 4 (C)	2.5	3.8	4.5	2.0	3.6	MR	6.5	MS	36.7	MS
10	Vivek Maize Hybrid 45(C)	2.5	5.7	4.5	2.0	4.2	MR	6.5	MS	66.7	S
Z1	Location Mean	3.4	5.8	3.8	3.0			6.0		35.2	
Z2	CV (%)	16.2	9.9	27.7	39.9			14.7		16.1	
Z3	F (Prob)	0.0	0.0	0.7	0.1			0.0		0.0	
Z4	CD (5%)	1.3	1.3	2.4	2.7			2.0		13.1	
Z5	CD (1%)	1.9	1.9	3.4	3.8			2.9		19.0	

*The data are not considerd where cv exceed 30 %

Susceptible check:- Early Composite(BLSB, BSR); Dharilocal (TLB); HM 4 (CR)

Table 7. Screening of pop corn I II III hybrids in NHZ

S.No.	Genotype	TLB(1-9)						BLSB(1-9)		BSR(%)	
		BAJA	BARA	LARN	ALMO	Av.score	Reaction	DHAU	Reaction	DHAU	Reaction
1	APCH3	3.5	7.1	3.0	5.0	4.6	MR	5.5	MS	16.7	MR
2	Bajaura Popcorn	4.0	7.4	3.5	4.0	4.7	MR	5.5	MS	32.0	MS
3	KDPC 2 (Filler)	3.5	6.1	4.5	4.0	4.5	MR	6.0	MS	37.0	MS
4	LPCH119	3.0	7.3	3.5	4.0	4.4	MR	6.5	MS	36.8	MS
5	LPCH219	3.0	4.5	3.5	4.0	3.8	MR	3.0	R	29.2	MS
6	Early Composite(C)	6.5	5.5	4.0	5.0	5.2	MS	5.0	MR	53.1	S
7	Dharilocal (C)	7.0	8.7	5.0	5.0	6.4	MS	5.0	MR	49.4	MS
8	Shalimar Popcorn KDPC-2 (C)	2.5	6.5	4.5	4.0	4.4	MR	7.0	MS	45.0	MS
9	VIVEK HYB-45 (C)	2.0	3.9	3.5	3.0	3.1	MR	4.5	MR	72.2	S
10	VL Amber Popcorn (C)	4.5	8.1	4.0	5.0	5.4	MS	5.0	MR	41.4	MS
Z1	Location Mean	4.0	6.5	3.9	4.3			5.3		41.3	
Z2	CV (%)	12.1	8.3	19.5	24.3			15.2		13.8	
Z3	F (Prob)	0.0	0.0	0.4	0.6			0.0		0.0	
Z4	CD (5%)	1.1	1.2	1.7	2.4			1.8		12.9	
Z5	CD (1%)	1.6	1.8	2.5	3.4			2.6		18.5	

Susceptible Check:- Early Composite (BLSB, BSR); Dharilocal (TLB)

Table 8. Screening of sweet corn I II III hybrids in NHZ

S.No.	Genotype	TLB(1-9)						BLSB(1-9)		BSR(%)	
		BAJA	BARA*	LARN	ALMO	Av.score	Reaction	DHAU	Reaction	DHAU	Reaction
1	Bajaura Sweet corn (Filler)	3.0	4.9	3.5	5.0	3.8	MR	7.5	S	18.0	MR
2	DSCH325	3.5	6.3	5.0	5.0	4.5	MR	5.5	MS	14.3	MR
3	FSCH 128	2.5	5.0	3.5	3.0	3.0	R	6.0	MS	51.0	S
4	LSC 119	3.5	4.5	4.5	5.0	4.3	MR	3.5	MR	22.7	MR
5	Nuzi205	2.5	2.2	4.0	4.0	3.5	MR	7.5	S	31.0	MS
6	Punjab Sweet corn 219	3.0	6.5	4.0	4.0	3.7	MR	8.0	S	46.0	MS
7	Early Composite(C)	6.5	4.4	4.0	4.0	4.8	MR	4.5	MR	37.5	MS
8	Dharilocal (C)	6.5	8.4	3.5	5.0	5.0	MR	7.5	S	50.4	S
9	Vivek Maize Hybrid 45(C)	2.5	4.7	5.0	3.5	3.7	MR	8.5	S	42.2	MS
Z1	Location Mean	3.6	4.9	4.1	4.2			6.3		34.0	
Z2	CV (%)	20.6	36.1	21.3	23.9			13.5		13.9	
Z3	F (Prob)	0.0	0.2	0.6	0.2			0.0		0.0	
Z4	CD (5%)	1.6	3.9	1.9	2.2			1.9		10.4	
Z5	CD (1%)	2.3	5.5	2.7	3.1			2.7		14.7	

*The data are not considerd where cv exceed 30 %

Susceptible check:- Early Composite (BLSB, BSR); Dharilocal (TLB)

Table 9. Screening of maize OPVs in NHZ

S.No.	Genotype	TLB(1-9)							BLSB(1-9)		BSR(%)	
		ALMO*	BAJA	BARA	IMPH	LARN	Av.score	Reation	DHAU	Reaction	DHAU	Reaction
1	KDM25	2.0	2.5	7.8	2.9	3.5	4.2	MR	6.5	MS	18.0	MR
2	KDM26	4.0	3.5	4.2	3.4	4.0	3.8	MR	6.0	MS	61.3	S
3	L315	2.0	2.5	5.8	2.6	3.0	3.5	MR	5.5	MS	18.2	MR
4	L316	2.0	3.0	4.0	3.1	4.0	3.5	MR	5.5	MS	15.6	MR
5	L317	5.0	3.5	-	3.1	3.5	3.4	MR	6.0	MS	45.8	MS
6	RCM 1-61	2.0	2.5	6.0	2.5	3.0	3.5	MR	7.0	MS	46.3	MS
7	RCM1-76	2.0	3.0	5.5	2.5	4.0	3.7	MR	5.5	MS	26.8	MS
8	VLQPM composite2	3.0	3.0	4.9	3.5	3.5	3.7	MR	7.5	S	61.9	S
9	Early Composite(C)	5.0	6.0	6.2	4.3	3.5	5.0	MR	3.1	MR	30.8	MS
10	Bajaura Makka (C)	4.0	3.0	6.2	2.6	3.5	3.8	MR	2.0	R	40.0	MS
11	Dharilocal (C)	4.0	6.5	6.6	5.6	4.0	5.7	MS	5.5	MS	50.8	S
12	Hemant (C)	3.0	3.5	4.8	3.9	2.5	3.7	MR	6.0	MS	30.0	MS
13	Vijay (C)	5.0	3.5	6.8	2.9	3.5	4.2	MR	3.0	R	28.2	MS
14	Vivek Sankul 35 (C)	5.0	4.0	4.9	3.2	3.5	3.9	MR	4.5	MR	49.3	MS
Z1	Location Mean	3.4	3.6	5.7	3.3	3.5			5.3		37.4	
Z2	CV (%)	32.4	18.8	20.3	19.5	19.2			22.4		16.9	
Z3	F (Prob)	0.0	0.0	0.2	0.0	0.6			0.0		0.0	
Z4	CD (5%)	2.4	1.5	2.6	1.4	1.5			2.6		13.6	
Z5	CD (1%)	3.3	2.0	3.6	1.9	2.0			3.7		19.0	

*The data are not considerd where cv exceed 30 %

Susceptible check:- Early Composite (BLSB, BSR); Dharilocal (TLB)

Table 10. Screening of NIVT (late maturity) maize hybrids in NWPZ

S.No.	Genotype	MLB(1-9)					BLSB(1-9)					ChR(1-9)		BSR(%)	
		DELH*	KARN	LUDH	Av.score	Reaction	DELH*	KARN	PANT	Av.score	Reaction	LUDH	Reaction	PANT*	Reaction
1	ADV7713	1.7	3.9	3.7	3.8	MR	5.5	4.0	6.8	5.4	MS	5.7	MS	30.4	
2	AH 8072	3.4	3.7	2.9	3.3	MR	2.4	5.9	6.4	6.1	MS	8.1	S	26.0	
3	AH 8753	3.5	4.2	3.9	4.1	MR	5.2	3.8	6.9	5.4	MS	8.4	S	65.6	
4	AH1645	2.0	2.8	2.2	2.5	R	6.2	5.5	7.4	6.5	MS	6.5	MS	72.4	
5	AH4139	3.0	3.6	4.5	4.1	MR	6.5	5.4	7.2	6.3	MS	7.8	S	89.7	
6	AH4272	2.2	4.0	3.4	3.7	MR	5.4	5.4	6.8	6.1	MS	6.6	MS	36.7	
7	AH5158	3.2	4.7	3.1	3.9	MR	5.5	5.4	6.3	5.9	MS	7.6	S	89.7	
8	BH 417202	2.7	2.3	1.9	2.1	R	3.4	4.5	6.6	5.5	MS	7.1	S	56.3	
9	BRMH-17068	2.3	4.2	2.5	3.3	MR	6.0	5.0	6.3	5.6	MS	5.3	MS	57.2	
10	CMH 08-292 (Filler)	1.1	3.0	4.3	3.6	MR	5.2	4.3	6.9	5.6	MS	4.1	MR	73.2	
11	CMH-15-006	2.4	3.7	3.0	3.3	MR	6.7	5.4	6.9	6.1	MS	4.2	MR	35.1	
12	CMH-15-008	2.6	4.0	4.0	4.0	MR	5.5	4.8	7.0	5.9	MS	6.4	MS	41.3	
13	CP 555	3.0	3.9	2.7	3.3	MR	3.7	3.9	6.5	5.2	MS	7.8	S	73.7	
14	CP 802	2.5	3.2	2.9	3.1	MR	3.7	7.0	6.4	6.7	MS	5.0	MR	84.8	
15	DKC 9207	3.1	2.8	3.7	3.2	MR	4.0	4.2	6.2	5.2	MS	4.8	MR	7.1	
16	GH16352	2.2	5.3	4.2	4.8	MR	4.2	5.5	6.5	6.0	MS	5.1	MS	38.6	
17	GK 3218	2.8	3.6	2.4	3.0	R	3.9	6.0	6.2	6.1	MS	5.0	MR	44.2	
18	HMM 1018	2.5	5.5	6.3	5.9	MS	3.7	4.0	6.2	5.1	MS	7.0	MS	45.3	
19	HT 519074	4.6	4.3	3.6	4.0	MR	5.2	3.3	6.5	4.9	MR	6.2	MS	52.3	
20	IM12723	2.4	3.0	3.8	3.4	MR	4.9	4.9	6.3	5.6	MS	5.2	MS	100.0	
21	IMHSB-19K-12	3.0	3.1	3.1	3.1	MR	4.4	3.2	6.3	4.8	MR	9.0	S	57.9	
22	IMHSB-19K-13	2.7	3.0	3.7	3.4	MR	3.3	4.6	5.7	5.2	MS	6.4	MS	16.9	
23	IMHSB-19K-14	1.6	3.0	2.4	2.7	R	5.9	4.1	6.5	5.3	MS	8.6	S	43.6	
24	IMHVS-102	3.1	4.0	2.6	3.3	MR	5.2	3.4	6.6	5.0	MR	7.5	S	34.0	
25	JH 17011	2.7	4.5	4.2	4.4	MR	4.8	5.1	6.4	5.8	MS	5.5	MS	48.4	
26	JH 18056	2.1	3.2	2.9	3.0	R	7.5	3.3	6.3	4.8	MR	5.5	MS	7.2	
27	JH 18057	3.1	4.2	3.0	3.6	MR	4.8	4.2	6.3	5.3	MS	3.7	MR	25.4	
28	JH 18087	2.5	3.2	2.2	2.7	R	6.8	5.2	6.5	5.9	MS	6.9	MS	63.7	
29	JH 18088	2.8	3.4	3.0	3.2	MR	4.3	4.8	6.6	5.7	MS	4.6	MR	66.8	
30	JH 18091	3.4	4.5	4.3	4.4	MR	5.6	3.1	6.5	4.8	MR	5.5	MS	34.2	
31	KH 2193	3.3	4.5	3.2	3.8	MR	4.0	5.5	5.7	5.6	MS	5.4	MS	17.0	
32	KH 5146	2.3	4.4	3.8	4.1	MR	3.9	5.1	6.7	5.9	MS	5.7	MS	46.1	

Contd...

Table 10. Screening of NIVT (late maturity) maize hybrids in NWPZ

S.No.	Genotype	MLB(1-9)					BLSB(1-9)					ChR(1-9)		BSR(%)	
		DELH*	KARN	LUDH	Av.score	Reaction	DELH*	KARN	PANT	Av.score	Reaction	LUDH	Reaction	PANT*	Reaction
33	KMH-8322	3.6	4.2	3.6	3.9	MR	6.6	6.5	6.9	6.7	MS	7.6	S	11.3	
34	KMH-8333	2.4	4.7	6.2	5.4	MS	6.1	5.4	6.4	5.9	MS	4.6	MR	49.3	
35	MM2424	5.3	4.8	3.1	3.9	MR	2.6	4.6	7.4	6.0	MS	6.3	MS	27.4	
36	NMH 4313	3.5	3.8	1.3	2.6	R	2.3	4.5	6.6	5.5	MS	5.8	MS	15.2	
37	PM 19104L	2.4	3.2	4.0	3.6	MR	6.8	4.7	5.9	5.3	MS	4.3	MR	21.1	
38	PM 19105 L	2.5	4.0	1.5	2.8	R	4.9	4.9	6.7	5.8	MS	6.6	MS	8.3	
39	PM 19106 L	3.9	5.2	4.1	4.6	MR	4.9	4.8	6.4	5.6	MS	5.7	MS	0.0	
40	PM 19107 L	2.0	4.7	2.9	3.8	MR	4.2	3.8	6.3	5.0	MR	4.0	MR	4.5	
41	PM 19108 L	3.1	4.6	4.2	4.4	MR	5.2	5.4	6.5	6.0	MS	3.8	MR	58.3	
42	PM 19109 L	3.4	4.1	3.6	3.8	MR	6.6	4.4	6.6	5.5	MS	4.2	MR	77.4	
43	PM 19110 L	3.6	3.1	2.5	2.8	R	3.5	6.2	6.7	6.5	MS	3.7	MR	16.1	
44	PM 19111 L	2.8	4.4	4.4	4.4	MR	3.8	3.6	6.2	4.9	MR	4.3	MR	33.7	
45	QMH-1604	2.6	4.7	4.5	4.6	MR	4.2	4.1	6.9	5.5	MS	6.6	MS	8.0	
46	QMH-16101	2.2	3.6	3.9	3.7	MR	3.0	6.5	6.3	6.4	MS	6.8	MS	60.9	
47	QMH-1617	2.3	4.8	2.8	3.8	MR	3.1	4.6	6.1	5.4	MS	7.8	S	26.9	
48	QMH-1697	2.2	4.0	3.0	3.5	MR	4.9	5.0	6.4	5.7	MS	7.2	S	44.5	
49	Rasi 6597	1.4	2.7	3.2	3.0	R	6.5	3.7	6.4	5.1	MS	4.0	MR	52.5	
50	Rasi 70574	2.5	4.2	3.7	3.9	MR	3.6	4.9	6.8	5.9	MS	3.3	MR	68.6	
51	SBMH 1817	4.1	3.1	2.2	2.6	R	3.8	5.8	6.5	6.2	MS	7.0	MS	78.2	
52	SVMH 1627	4.4	3.4	2.5	2.9	R	4.9	3.4	6.4	4.9	MR	4.8	MR	26.5	
53	TMMH 853	2.6	3.9	4.8	4.3	MR	3.2	4.8	6.3	5.5	MS	7.0	MS	70.8	
54	VNR37650	1.9	3.8	4.9	4.4	MR	3.7	4.8	6.7	5.7	MS	4.3	MR	78.3	
55	VNR4343	2.8	2.5	2.9	2.7	R	6.4	4.0	6.6	5.3	MS	6.7	MS	31.2	
56	SYN916801	2.7	2.5	4.0	3.2	MR	2.4	3.9	6.1	5.0	MR	6.4	MS	60.9	
57	Surya (C)	3.2	4.3	4.5	4.4	MR	5.7	4.6	6.6	5.6	MS	6.0	MS	60.7	
58	ADV 7022 (C)	1.9	4.4	3.9	4.2	MR	1.9	5.4	6.6	6.0	MS	4.5	MR	37.3	
59	BIO 9682 (C)	3.7	3.0	2.8	2.9	R	2.7	5.2	6.0	5.6	MS	2.8	R	4.8	
60	CM 600 (C)	5.9	9.0	6.9	8.0	S	4.6	5.0	7.7	6.4	MS	7.7	S	30.4	
61	CMH 08-282 (C)	2.2	3.9	3.1	3.5	MR	3.5	3.1	6.4	4.8	MR	5.8	MS	63.3	
62	CMH 08-287 (C)	2.7	3.7	1.2	2.5	R	4.7	4.3	6.5	5.4	MS	7.1	S	72.1	
63	Early Composite (C)	3.2	5.3	5.7	5.5	MS	6.6	4.4	6.4	5.4	MS	5.8	MS	28.6	
64	NK6240 (C)	3.2	3.3	2.5	2.9	R	7.4	5.8	6.4	6.1	MS	6.2	MS	28.7	

Contd...

Table 10. Screening of NIVT (late maturity) maize hybrids in NWPZ

S.No.	Genotype	MLB(1-9)					BLSB(1-9)					ChR(1-9)		BSR(%)	
		DELH*	KARN	LUDH	Av.score	Reaction	DELH*	KARN	PANT	Av.score	Reaction	LUDH	Reaction	PANT*	Reaction
65	RCRMH4-1 (C)	4.8	5.5	3.7	4.6	MR	6.6	3.5	6.8	5.1	MS	3.4	MR	18.1	
66	VaMH 12014 (C)	4.1	3.8	3.9	3.9	MR	8.1	4.8	6.8	5.8	MS	6.6	MS	27.2	
Z1	Location Mean	2.9	4.0	3.5			4.8	4.7	6.5			5.9		43.5	
Z2	CV (%)	50.7	12.4	22.3			35.5	22.0	7.9			17.0		56.4	
Z3	F (Prob)	1.0	0.0	0.0			0.5	0.6	0.7			0.0		0.1	
Z4	CD (5%)	2.9	1.0	1.6			3.4	2.1	1.0			2.0		49.4	
Z5	CD (1%)	3.9	1.3	2.1			4.6	2.8	1.4			2.7		65.9	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022, VaMH 12014 (MLB); ADV 7022, VaMH 12014 (BLSB); ADV 7022, VaMH 12014 (BSR); ADV 7022, VaMH 12014 (ChR)

Susceptible check:- Surya, Early Composite, CM 600, RCRMH4-1 (MLB); Early Composite, CM 600, Early Composite, CM 600, RCRMH4-1 (BSR); RCRMH4-1 (BLSB); Surya (ChR)

Table 11. Screening of NIVT (medium maturity) maize hybrids in NWPZ

S.No.	Genotype	MLB(1-9)					BLSB(1-9)					ChR(1-9)		BSR(%)	
		DELH*	KARN	LUDH	Av.Score	Reaction	DELH	KARN	PANT	Av.Score	Reaction	LUDH	Reaction	PANT*	Reaction
1	AH 8245 R	3.8	3.3	3.4	3.4	MR	4.0	5.2	6.1	5.1	MS	4.7	MR	64.0	
2	AH 8452	3.2	3.3	2.6	2.9	R	2.9	3.3	6.5	4.2	MR	3.4	MR	75.3	
3	AH1625	2.6	3.5	3.9	3.7	MR	2.7	4.7	6.6	4.7	MR	4.6	MR	25.0	
4	AH1634	6.2	2.8	3.6	3.2	MR	1.4	3.9	6.4	3.9	MR	4.7	MR	47.8	
5	AH4142	2.9	5.3	6.5	5.9	MS	3.5	5.3	7.4	5.4	MS	7.1	S	27.7	
6	AH4167	3.0	3.3	2.6	3.0	R	3.5	5.6	7.2	5.4	MS	3.8	MR	45.2	
7	BAU-MH-18-2	6.2	4.9	5.2	5.1	MS	2.7	4.9	6.8	4.8	MR	6.2	MS	62.9	
8	BAU-MH-18-3	3.7	3.2	4.6	3.9	MR	3.4	6.2	7.5	5.7	MS	5.3	MS	29.1	
9	BH 417152	5.0	4.6	4.2	4.4	MR	1.7	5.1	6.4	4.4	MR	4.9	MR	42.1	
10	BH 417182	1.7	2.6	2.9	2.8	R	5.5	2.6	6.5	4.9	MR	4.1	MR	41.5	
11	BH 417193	6.1	1.8	2.3	2.1	R	3.0	5.5	6.3	4.9	MR	3.4	MR	52.6	
12	CMH-12-686	2.4	2.7	3.0	2.8	R	4.4	6.3	6.5	5.7	MS	4.3	MR	77.7	
13	CMH-15-012	4.6	3.8	5.2	4.5	MR	6.7	6.0	6.8	6.5	MS	6.1	MS	42.3	
14	DH 327	1.6	3.1	4.8	4.0	MR	4.0	6.3	7.6	5.9	MS	5.4	MS	24.6	
15	DH 328	3.1	4.7	4.2	4.5	MR	4.5	3.1	6.4	4.6	MR	5.6	MS	32.7	
16	EH 3638	5.6	3.6	2.8	3.2	MR	5.5	5.0	6.6	5.7	MS	4.2	MR	50.8	
17	HMM 1014	3.6	4.5	4.5	4.5	MR	3.7	5.0	6.6	5.1	MS	5.5	MS	42.1	
18	HMM 1019	3.2	4.8	3.8	4.3	MR	2.7	5.6	7.4	5.3	MS	4.7	MR	29.4	
19	IMHL-K-19-1	3.3	2.8	4.4	3.6	MR	5.0	3.3	6.3	4.9	MR	5.3	MS	62.2	
20	IWH 1407	2.5	6.1	6.6	6.3	MS	5.3	5.4	7.3	6.0	MS	7.4	S	12.9	
21	IYH 1603	1.9	4.9	6.6	5.8	MS	4.2	4.7	7.2	5.4	MS	6.8	MS	30.2	
22	JH 18064	2.6	2.6	3.6	3.1	MR	5.2	5.1	6.3	5.5	MS	4.5	MR	54.2	
23	JH 18065	2.4	3.7	2.9	3.3	MR	4.9	5.8	6.5	5.7	MS	4.1	MR	26.9	
24	JH 18099	2.3	4.7	4.2	4.5	MR	4.0	4.2	6.5	4.9	MR	5.1	MS	46.7	
25	JH 32104	3.4	4.1	3.6	3.9	MR	3.0	4.5	6.1	4.5	MR	5.1	MS	10.6	
26	KMH 18-42	3.3	5.5	5.3	5.4	MS	3.3	5.2	6.7	5.0	MR	6.3	MS	69.1	
27	KMH 18-71	3.0	5.3	6.5	5.9	MS	4.7	5.7	8.4	6.3	MS	6.9	MS	10.6	
28	KNMH 4191	2.8	4.4	3.3	3.8	MR	5.5	5.4	6.8	5.9	MS	4.7	MR	27.1	
29	KNMH 4192	3.3	2.7	1.8	2.2	R	3.7	5.7	7.1	5.5	MS	2.3	R	49.3	
30	KNMH 4194	3.3	4.3	5.9	5.1	MS	2.0	4.7	6.4	4.4	MR	6.2	MS	18.9	
31	LMH 4119	5.9	4.2	6.5	5.3	MS	3.2	4.3	6.8	4.8	MR	6.3	MS	70.5	
32	LMH 4219	2.7	3.2	5.0	4.1	MR	3.5	5.5	6.3	5.1	MS	5.8	MS	41.0	
33	LMH 4319	3.4	3.1	6.2	4.6	MR	4.9	5.0	6.5	5.4	MS	6.5	MS	8.1	

contd....

Table 11. Screening of NIVT (medium maturity) maize hybrids in NWPZ

S.No.	Genotype	MLB(1-9)					BLSB(1-9)					ChR(1-9)		BSR(%)	
		DELH*	KARN	LUDH	Av.Score	Reaction	DELH	KARN	PANT	Av.Score	Reaction	LUDH	Reaction	PANT*	Reaction
34	LMH 4419	2.8	3.1	4.1	3.6	MR	3.5	4.3	6.6	4.8	MR	5.3	MS	5.6	
35	OMH17-19	2.5	2.9	3.4	3.1	MR	4.7	5.5	6.2	5.5	MS	4.1	MR	13.4	
36	OMH17-24	1.9	3.3	3.5	3.4	MR	4.2	5.0	6.9	5.3	MS	5.1	MS	25.6	
37	RCRMH 13	3.4	5.1	5.0	5.1	MS	3.8	6.0	6.8	5.5	MS	6.2	MS	58.5	
38	VaMH 16008	2.7	3.8	5.2	4.5	MR	5.3	5.8	6.7	5.9	MS	6.4	MS	35.8	
39	RCRMH 14	3.5	4.2	5.8	5.0	MR	2.9	5.3	6.6	4.9	MR	6.0	MS	35.6	
40	Surya (C)	3.4	4.7	5.5	5.1	MS	3.5	5.3	6.8	5.2	MS	5.7	MS	16.7	
41	ADV 7022 (C)	4.1	5.4	5.9	5.6	MS	3.2	5.0	6.4	4.9	MR	6.3	MS	23.0	
42	BIO 9544 (C)	3.5	3.1	2.7	2.9	R	2.2	5.8	6.1	4.7	MR	3.0	R	69.3	
43	CM 600 (C)	2.5	7.8	7.6	7.7	S	4.5	5.7	8.0	6.1	MS	8.3	S	31.3	
44	CMH 08-292 (C)	3.6	3.5	3.3	3.4	MR	3.7	4.6	6.7	5.0	MR	4.5	MR	26.9	
45	DHM 121 (C)	4.2	3.6	5.4	4.5	MR	5.0	4.6	7.2	5.6	MS	6.0	MS	25.9	
46	Early Composite (C)	5.0	4.3	4.9	4.6	MR	3.2	4.7	6.2	4.7	MR	5.8	MS	12.1	
47	RCRMH4-1 (C)	1.4	7.2	7.0	7.1	S	4.7	5.7	6.8	5.7	MS	7.6	S	11.3	
48	VaMH 12014 (C)	7.2	3.3	4.6	4.0	MR	3.4	4.0	6.8	4.7	MR	4.9	MR	99.9	
Z1	Location Mean	3.5	4.0	4.5			3.9	5.0	6.7			5.4		38.4	
Z2	CV (%)	57.1	18.3	19.9			28.4	20.3	5.9			13.9		49.1	
Z3	F (Prob)	0.9	0.0	0.0			0.1	0.3	0.0			0.0		0.0	
Z4	CD (5%)	4.0	1.5	1.8			2.2	2.1	0.8			1.5		38.1	
Z5	CD (1%)	5.4	2.0	2.4			3.0	2.8	1.1			2.0		51.1	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022, VaMH 12014 (MLB); ADV 7022, VaMH 12014 (BLSB); ADV 7022 ,VaMH 12014 (BSR); ADV 7022, VaMH 12014, BIO 9544 (ChR)

Susceptible check:- Surya, Early Composite, CM 600, RCRMH4-1 (MLB); Early Composite, CM 600, RCRMH4-1 (BLSB); Early Composite, CM 600, RCRMH4-1 (BSR); Surya (ChR)

Table 12. Screening of NIVT A (medium maturity) maize hybrids in NWPZ

S.No.	Genotype	MLB(1-9)					BLSB(1-9)					ChR(1-9)		BSR(%)	
		DELH*	KARN	LUDH	Av.score	Reaction	DELH	KARN	PANT	Av.score	Reaction	LUDH	Reaction	PANT*	Reaction
1	ADV 7745	5.2	3.6	4.0	3.8	MR	4.4	6.4	6.3	5.7	MS	5.2	MS	42.8	
2	DKC 8205	5.4	2.8	4.8	3.8	MR	5.7	3.9	6.4	5.3	MS	5.5	MS	41.0	
3	DKC 8209	2.3	3.0	2.8	2.9	R	6.1	5.8	6.2	6.0	MS	5.5	MS	1.0	
4	GGMH-114	3.0	2.3	2.8	2.5	R	4.5	4.7	6.5	5.2	MS	4.3	MR	66.0	
5	GK 3207	4.8	4.3	4.2	4.3	MR	5.6	6.5	6.7	6.3	MS	7.9	S	29.2	
6	HKH-371	4.5	3.1	3.6	3.3	MR	5.1	5.7	6.3	5.7	MS	8.4	S	29.4	
7	HKH-372	2.4	3.1	2.5	2.8	R	6.0	4.9	6.2	5.7	MS	6.9	MS	33.2	
8	HM 19203	5.6	4.4	2.4	3.4	MR	5.4	3.2	5.9	4.8	MR	5.1	MS	0.0	
9	HM 19305	3.8	3.0	2.6	2.8	R	5.1	4.7	6.1	5.3	MS	4.6	MR	15.8	
10	HT 519015	3.1	3.0	3.7	3.3	MR	3.9	6.5	5.9	5.4	MS	5.5	MS	16.4	
11	IAHM 2016-38	2.8	3.6	4.4	4.0	MR	4.5	4.6	6.6	5.2	MS	3.7	MR	0.9	
12	IAHM2016-2	3.1	3.3	3.6	3.5	MR	6.1	6.1	6.3	6.2	MS	9.0	S	46.5	
13	IIMWH 1901	3.3	5.5	4.5	5.0	MR	4.8	5.2	6.1	5.4	MS	4.2	MR	30.2	
14	IMHSB-19K-10	1.0	3.5	4.8	4.2	MR	2.7	5.8	6.5	5.0	MR	7.2	S	20.2	
15	IMHSB-19K-11	4.7	2.9	3.3	3.1	MR	3.1	3.8	6.2	4.3	MR	5.7	MS	21.2	
16	IMHSB-19K-2	3.2	3.7	4.0	3.9	MR	3.8	5.2	5.8	5.0	MR	6.7	MS	54.1	
17	IMHSB-19K-3	1.9	4.1	5.3	4.7	MR	4.2	3.9	5.8	4.6	MR	6.3	MS	32.4	
18	IMHSB-19K-4	3.0	3.5	3.3	3.4	MR	6.4	5.6	6.1	6.0	MS	6.5	MS	13.1	
19	IMHSB-19K-5	2.2	4.2	5.6	4.9	MR	6.9	6.5	6.1	6.5	MS	6.9	MS	70.2	
20	IMHSB-19K-6	3.1	2.6	3.8	3.2	MR	3.8	4.6	6.3	4.9	MR	5.3	MS	21.0	
21	IMHSB-19K-7	4.7	3.0	2.7	2.9	R	4.3	5.4	6.7	5.5	MS	5.0	MR	39.6	
22	IMHSB-19K-8	2.9	4.6	4.8	4.7	MR	5.1	4.1	6.4	5.2	MS	8.3	S	7.5	
23	IMHSB-19K-9	2.6	4.7	5.2	5.0	MR	4.0	4.6	6.2	5.0	MR	6.0	MS	59.4	
24	IMHVS-101	2.7	2.8	3.6	3.2	MR	3.1	5.0	6.1	4.7	MR	7.1	S	13.9	
25	JKMH 1481	2.8	2.7	3.3	3.0	R	4.1	5.8	6.5	5.4	MS	5.1	MS	60.5	
26	KH 518	2.3	2.8	2.6	2.7	R	4.8	4.4	6.0	5.1	MS	5.1	MS	14.3	
27	KSP-5391	3.2	4.0	3.6	3.8	MR	3.4	5.1	6.0	4.8	MR	5.1	MS	5.3	
28	MH 1941	2.8	2.9	3.6	3.3	MR	3.2	5.8	6.4	5.1	MS	8.2	S	30.6	
29	MH 1945	4.6	4.0	3.8	3.9	MR	4.0	3.8	6.5	4.7	MR	4.8	MR	57.4	
30	MH 1948	2.9	3.2	3.8	3.5	MR	3.2	5.1	5.8	4.7	MR	5.2	MS	65.2	
31	NMH 4144	5.4	2.2	2.8	2.5	R	4.1	5.0	6.3	5.1	MS	5.6	MS	65.8	
32	PM 19101 M	5.0	4.3	5.0	4.7	MR	5.4	5.3	6.4	5.7	MS	6.3	MS	32.8	
33	PM 19102 M	4.1	3.6	3.0	3.3	MR	3.4	4.6	6.3	4.8	MR	4.8	MR	36.7	

Contd....

Table 12. Screening of NIVT A (medium maturity) maize hybrids in NWPZ

S.No.	Genotype	MLB(1-9)					BLSB(1-9)					ChR(1-9)		BSR(%)	
		DELH*	KARN	LUDH	Av.score	Reaction	DELH	KARN	PANT	Av.score	Reaction	LUDH	Reaction	PANT*	Reaction
34	PM 19103 M	4.2	4.5	3.4	4.0	MR	3.4	3.5	6.6	4.5	MR	5.7	MS	14.4	
35	SVMH-1130	1.8	3.4	4.5	4.0	MR	3.9	4.6	6.0	4.8	MR	6.5	MS	28.5	
36	SYN-916248	3.1	3.8	5.7	4.8	MR	3.4	5.3	6.2	5.0	MR	5.0	MR	38.2	
37	SYN916540	4.0	3.8	2.8	3.3	MR	5.0	4.8	6.5	5.4	MS	5.9	MS	50.6	
38	TS 2609	5.3	3.9	3.3	3.6	MR	5.3	5.0	6.2	5.5	MS	5.8	MS	7.3	
39	SYN916701	1.7	3.1	3.6	3.3	MR	4.4	5.1	6.5	5.3	MS	4.0	MR	50.9	
40	Surya (C)	4.7	3.9	4.9	4.4	MR	5.4	4.3	6.4	5.4	MS	7.0	MS	14.5	
41	ADV 7022 (C)	3.0	3.3	4.5	3.9	MR	2.4	5.4	6.1	4.6	MR	4.3	MR	21.0	
42	BIO 9544 (C)	5.8	3.1	3.3	3.2	MR	2.6	4.3	6.3	4.4	MR	5.0	MR	56.0	
43	CM 600 (C)	2.6	7.3	7.4	7.4	S	4.4	5.8	7.0	5.7	MS	8.2	S	59.7	
44	RCRMH4-1 (C)	2.8	6.6	6.5	6.6	MS	4.4	5.0	5.9	5.1	MS	4.5	MR	49.0	
45	CMH 08-292 (C)	1.7	3.5	3.5	3.5	MR	3.9	4.8	6.0	4.9	MR	5.5	MS	25.3	
46	DHM 121 (C)	3.8	2.6	2.8	2.7	R	3.8	6.5	6.0	5.4	MS	6.3	MS	16.1	
47	Early Composite (C)	3.3	4.6	6.1	5.3	MS	4.1	5.0	6.5	5.2	MS	7.0	MS	24.9	
48	VaMH 12014 (C)	4.1	3.9	3.5	3.7	MR	2.9	3.7	6.3	4.3	MR	7.2	S	78.8	
Z1	Location Mean	3.5	3.7	4.0			4.4	5.0	6.3			5.9		33.4	
Z2	CV (%)	53.1	15.8	24.8			23.9	18.7	4.7			18.0		54.7	
Z3	F (Prob)	0.9	0.0	0.0			0.0	0.2	0.1			0.0		0.0	
Z4	CD (5%)	3.7	1.2	2.0			2.1	1.9	0.6			2.2		37.0	
Z5	CD (1%)	5.0	1.6	2.7			2.8	2.5	0.8			2.9		49.6	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022, VaMH 12014 (MLB); ADV 7022, VaMH 12014 (BLSB); ADV 7022 ,VaMH 12014 (BSR); ADV 7022, VaMH 12014 , BIO 9544 (ChR)

Susceptible check:- Surya , Early Composite, CM 600 , RCRMH4-1 (MLB); Early Composite, CM 600, RCRMH4-1 (BLSB); Early Composite, CM 600, RCRMH4-1 (BSR); Surya (ChR)

Table 13. Screening of NIVT (early maturity) maize hybrids in NWPZ

S.No.	Genotype	MLB(1-9)					BLSB(1-9)					ChR(1-9)		BSR(%)	
		DELH*	KARN	LUDH	Av.score	Reaction	DELH*	KARN	PANT	Av.score	Reaction	LUDH	Reaction	PANT*	Reaction
1	AH 8178	4.4	3.1	3.5	3.3	MR	2.6	4.5	6.3	5.4	MS	7.5	S	32.6	
2	AH 8323	3.0	2.2	3.3	2.7	R	3.7	3.4	5.8	4.6	MR	5.0	MR	28.8	
3	AH 8622	3.9	4.4	5.0	4.7	MR	3.2	4.5	5.8	5.1	MS	4.5	MR	75.9	
4	AH1608	4.2	3.2	2.8	3.0	R	3.1	4.8	6.5	5.7	MS	4.5	MR	18.3	
5	AH3254	5.1	8.3	7.8	8.0	S	5.5	5.7	6.8	6.3	MS	8.7	S	36.8	
6	BAU-MH-18-1	3.6	3.9	5.4	4.6	MR	3.3	3.3	6.1	4.7	MR	5.7	MS	29.0	
7	BYMH-13-5	4.0	4.4	5.8	5.1	MS	6.2	4.7	6.6	5.6	MS	7.0	MS	10.6	
8	DH 321	5.6	4.5	3.8	4.1	MR	5.5	3.5	6.6	5.1	MS	4.6	MR	25.1	
9	DH 329	2.0	5.9	5.0	5.4	MS	1.6	4.9	6.3	5.6	MS	5.6	MS	39.5	
10	DH 330	3.2	2.7	3.9	3.3	MR	4.1	4.7	6.4	5.5	MS	7.2	S	12.9	
11	DKC 7204	3.9	3.1	4.5	3.8	MR	3.2	4.2	6.2	5.2	MS	8.0	S	51.7	
12	EH 3524	3.4	3.8	3.5	3.7	MR	5.1	4.4	6.1	5.2	MS	6.9	MS	22.8	
13	EH 3571	1.7	3.3	3.8	3.5	MR	2.6	3.5	6.5	5.0	MR	7.1	S	46.7	
14	FH 3912	1.9	5.7	6.0	5.9	MS	3.2	5.3	6.2	5.8	MS	4.5	MR	25.1	
15	HKH 370	2.3	4.1	3.4	3.7	MR	2.5	3.8	6.2	5.0	MR	6.0	MS	43.9	
16	IMHSB-19K-1	6.0	3.0	3.5	3.2	MR	7.1	5.1	6.7	5.9	MS	6.4	MS	9.0	
17	JH 32006	2.5	3.0	4.0	3.5	MR	3.1	4.2	6.1	5.1	MS	6.9	MS	7.3	
18	JH 32328	3.7	3.6	5.4	4.5	MR	4.6	5.7	6.1	5.9	MS	6.6	MS	35.2	
19	JH 32375	4.6	4.0	3.9	3.9	MR	6.8	2.9	6.1	4.5	MR	6.6	MS	18.5	
20	JH 32385	1.6	4.3	4.3	4.3	MR	2.5	4.0	6.0	5.0	MR	4.7	MR	9.7	
21	JH 32391	7.5	4.8	6.5	5.6	MS	5.1	4.6	6.1	5.3	MS	4.1	MR	69.9	
22	KH 102E	4.8	4.0	6.6	5.3	MS	4.2	3.1	6.4	4.7	MR	4.5	MR	13.7	
23	KMH 18-13	7.7	6.5	5.3	5.9	MS	4.8	6.6	5.8	6.2	MS	7.6	S	53.6	
24	KMH 18-15	6.3	3.8	4.9	4.3	MR	4.5	4.4	6.1	5.3	MS	7.1	S	29.7	
25	KNMH 4193	2.6	3.2	5.4	4.3	MR	3.8	4.4	6.0	5.2	MS	4.5	MR	22.7	
26	LMH 1946	3.1	2.9	4.3	3.6	MR	4.2	5.6	6.1	5.8	MS	5.5	MS	58.8	
27	Rasi 50252	5.0	3.9	6.0	4.9	MR	4.6	5.8	6.2	6.0	MS	3.7	MR	10.0	
28	VEH18-1	3.7	4.4	6.9	5.6	MS	2.6	4.4	6.2	5.3	MS	6.0	MS	7.9	
29	Surya (C)	2.9	5.4	5.0	5.2	MS	3.2	3.6	5.8	4.7	MR	6.5	MS	33.7	
30	ADV 7022 (C)	3.5	6.4	6.0	6.2	MS	4.1	4.5	6.4	5.5	MS	4.7	MR	9.2	
31	Bio 605 (C)	2.4	3.8	5.0	4.4	MR	3.2	3.4	5.8	4.6	MR	5.2	MS	24.6	
32	CM 600 (C)	3.3	7.8	7.6	7.7	S	4.7	5.5	5.8	5.6	MS	8.7	S	35.9	

contd...

Table 13. Screening of NIVT (early maturity) maize hybrids in NWPZ

S.No.	Genotype	MLB(1-9)					BLSB(1-9)					ChR(1-9)		BSR(%)	
		DELH*	KARN	LUDH	Av.score	Reaction	DELH*	KARN	PANT	Av.score	Reaction	LUDH	Reaction	PANT*	Reaction
33	DKC7074 (C)	3.3	3.1	3.1	3.1	MR	4.2	3.6	6.2	4.9	MR	4.6	MR	7.9	
34	Early Composite (C)	3.5	5.6	6.5	6.1	MS	3.6	3.6	5.9	4.8	MR	6.3	MS	0.0	
35	RCRMH4-1 (C)	3.3	5.8	6.9	6.3	MS	4.0	5.0	6.2	5.6	MS	3.8	MR	16.1	
36	VaMH 12014 (C)	3.8	4.1	2.9	3.5	MR	4.5	4.7	6.2	5.5	MS	4.9	MR	39.4	
Z1	Location Mean	3.8	4.3	4.9			4.0	4.4	6.2			5.9		28.1	
Z2	CV (%)	34.3	21.7	24.7			36.9	20.1	4.8			21.9		92.0	
Z3	F (Prob)	0.0	0.0	0.0			0.2	0.1	0.2			0.0		0.6	
Z4	CD (5%)	2.7	1.9	2.5			3.0	1.8	0.6			2.6		52.8	
Z5	CD (1%)	3.6	2.6	3.3			4.1	2.5	0.8			3.5		71.2	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022, VaMH 12014 (MLB); ADV 7022, VaMH 12014 (BLSB); ADV 7022,VaMH 12014 (BSR); ADV 7022, VaMH 12014 (ChR)

Susceptible check:- Surya, Early Composite, CM 600, RCRMH4-1 (MLB); Early Composite, CM 600, RCRMH4-1 (BLSB); Early Composite, CM 600, RCRMH4-1 (BSR); Surya (ChR)

Table 14. Screening of AVT I-II (late maturity) maize hybrids in NWPZ

S.No.	Genotype	MLB(1-9)					BLSB(1-9)					ChR(1-9)		BSR(%)	
		DELH*	KARN	LUDH	Av.score	Reaction	DELH	KARN	PANT	Av.score	Reaction	LUDH	Reaction	PANT*	Reaction
1	ADV 1390064	2.9	4.6	5.0	4.8	MR	3.8	5.0	6.9	5.2	MS	6.4	MS	62.7	
2	ADV 1390164	4.8	4.7	4.0	4.4	MR	2.9	5.9	6.2	5.0	MR	4.5	MR	14.0	
3	ADV 7132	2.5	4.4	5.3	4.9	MR	4.0	3.6	6.3	4.6	MR	6.7	MS	4.5	
4	B57	3.3	5.1	3.6	4.4	MR	3.2	4.0	6.0	4.4	MR	6.6	MS	36.6	
5	BLH 137	2.3	4.1	3.1	3.6	MR	3.7	4.6	6.2	4.8	MR	6.5	MS	29.0	
6	Bio 218	5.0	3.5	3.9	3.7	MR	4.3	5.6	6.3	5.4	MS	5.0	MR	31.6	
7	Bio 534	3.0	4.6	3.8	4.2	MR	4.0	5.6	6.6	5.4	MS	4.6	MR	27.9	
8	CP 858	2.3	4.3	2.5	3.4	MR	3.7	4.6	6.2	4.8	MR	4.9	MR	30.8	
9	HT 17169	3.8	3.1	3.1	3.1	MR	4.8	5.8	5.8	5.5	MS	4.8	MR	22.5	
10	JH 16041	4.2	2.7	2.3	2.5	R	4.8	3.5	6.4	4.9	MR	6.8	MS	65.0	
11	JH 16081	3.5	3.3	3.4	3.4	MR	5.8	5.6	6.2	5.9	MS	5.1	MS	7.4	
12	JH 16224	3.1	4.5	2.2	3.3	MR	3.3	4.1	6.0	4.5	MR	6.0	MS	40.6	
13	JH 17026	3.5	3.9	3.8	3.8	MR	3.1	4.9	6.4	4.8	MR	5.5	MS	17.4	
14	JKMH 150375	2.8	4.6	2.0	3.3	MR	2.9	5.7	6.2	4.9	MR	6.4	MS	37.4	
15	KMH 005	3.4	4.5	3.0	3.8	MR	4.8	5.9	5.5	5.4	MS	7.4	S	29.7	
16	KMH 463	5.0	4.1	1.8	2.9	R	4.5	4.0	5.8	4.8	MR	6.1	MS	48.5	
17	PM 18101 L	3.7	3.9	4.8	4.3	MR	5.3	6.8	6.5	6.2	MS	6.3	MS	50.4	
18	PM 18104 L	3.5	5.4	3.4	4.4	MR	6.3	4.4	6.4	5.7	MS	7.1	S	52.8	
19	PM 18105 L	3.8	4.3	2.6	3.4	MR	4.8	5.7	6.3	5.6	MS	6.5	MS	14.2	
20	PM 18106 L	3.5	3.5	2.3	2.9	R	1.7	5.0	6.1	4.3	MR	7.3	S	12.2	
21	RCM 1-61	5.3	4.9	4.7	4.8	MR	2.8	5.6	6.4	4.9	MR	6.8	MS	19.4	
22	RCM 1-76	3.3	5.3	3.5	4.4	MR	3.6	4.7	6.5	4.9	MR	8.4	S	13.4	
23	Rasi 3499	3.7	3.8	2.8	3.3	MR	3.8	3.3	6.2	4.4	MR	8.1	S	38.8	
24	Rasi 4992	3.8	3.1	3.0	3.0	R	3.9	4.9	6.3	5.0	MR	5.7	MS	32.6	
25	SUPER 1818	3.5	3.8	2.3	3.0	R	5.2	5.5	6.2	5.6	MS	5.2	MS	53.0	
26	TS 2505	2.6	4.3	2.9	3.6	MR	4.7	4.2	6.4	5.1	MS	6.5	MS	52.6	
27	SYN816514	2.3	3.2	3.1	3.2	MR	5.4	5.7	6.2	5.8	MS	7.7	S	37.7	
28	Surya (C)	4.3	4.8	4.0	4.4	MR	2.7	5.6	6.2	4.8	MR	5.8	MS	43.5	
29	ADV 7022 (C)	3.8	4.1	4.2	4.2	MR	3.3	5.2	6.5	5.0	MR	4.6	MR	14.8	
30	BIO 9682 (C)	5.1	3.1	3.4	3.2	MR	3.9	3.9	5.5	4.4	MR	6.2	MS	7.9	
31	CM 600 (C)	3.3	7.8	7.0	7.4	S	3.6	5.7	6.3	5.2	MS	7.4	S	58.5	
32	CMH 08-287 (C)	2.3	2.6	1.5	2.0	R	4.1	4.7	6.1	5.0	MR	7.4	S	79.2	

Contd...

Table 14. Screening of AVT I-II (late maturity) maize hybrids in NWPZ

S.No.	Genotype	MLB(1-9)					BLSB(1-9)					ChR(1-9)		BSR(%)	
		DELH*	KARN	LUDH	Av.score	Reaction	DELH	KARN	PANT	Av.score	Reaction	LUDH	Reaction	PANT*	Reaction
33	Early Composite (C)	3.3	4.6	6.7	5.6	MS	4.8	5.6	6.3	5.6	MS	7.9	S	21.2	
34	NK 6240 (C)	3.8	3.9	2.0	3.0	R	2.7	6.0	5.9	4.9	MR	4.5	MR	45.1	
35	RCRMH4-1 (C)	4.6	5.9	5.4	5.6	MS	3.4	5.7	6.5	5.2	MS	4.5	MR	14.9	
36	VaMH 12014 (C)	3.6	4.3	3.4	3.8	MR	3.4	4.1	6.3	4.6	MR	8.0	S	38.1	
Z1	Location Mean	3.6	4.2	3.5			4.0	5.0	6.2			6.2		33.5	
Z2	CV (%)	31.9	13.7	21.0			25.1	23.8	4.8			16.8		50.0	
Z3	F (Prob)	0.6	0.0	0.0			0.1	0.6	0.1			0.0		0.0	
Z4	CD (5%)	2.3	1.2	1.5			2.0	2.4	0.6			2.2		34.3	
Z5	CD (1%)	3.1	1.6	2.0			2.8	3.3	0.8			2.9		46.2	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022 , VaMH 12014 (MLB); ADV 7022, VaMH 12014 (BLSB); ADV 7022 ,VaMH 12014 (BSR); ADV 7022, VaMH 12014 (ChR)

Susceptible check:- Surya , Early Composite, CM 600 ,RCRMH4-1 (MLB); Early Composite, CM 600, RCRMH4-1 (BLSB); Early Composite, CM 600, RCRMH4-1 (BSR); Surya (ChR)

Table 15. Screening of AVT I-II (medium maturity) maize hybrids in NWPZ

S.No.	Genotype	MLB(1-9)					BLSB(1-9)					ChR(1-9)		BSR(%)	
		DELH*	KARN	LUDH	Av.score	Reaction	DELH*	KARN	PANT	Av.score	Reaction	LUDH	Reaction	PANT*	Reaction
1	AH 7067R	2.4	3.2	2.1	2.6	R	2.4	5.4	5.7	5.6	MS	6.7	MS	22.4	
2	AH4271	3.1	4.3	5.5	4.9	MR	4.9	5.8	6.4	6.1	MS	6.1	MS	20.3	
3	BH 416032	4.3	3.5	2.7	3.1	MR	3.4	6.0	6.2	6.1	MS	4.0	MR	41.2	
4	BH416215	2.7	3.4	4.8	4.1	MR	3.0	4.5	6.3	5.4	MS	5.0	MR	8.6	
5	BLH 118	5.0	3.8	4.3	4.0	MR	5.6	5.1	6.2	5.6	MS	6.4	MS	0.0	
6	CAH 1511	2.3	3.2	3.4	3.3	MR	4.4	4.0	6.4	5.2	MS	7.8	S	3.1	
7	DKC 8181	4.4	2.4	2.4	2.4	R	3.7	5.7	5.8	5.7	MS	6.0	MS	4.5	
8	DKC 9190	4.3	2.8	3.2	3.0	R	5.2	4.9	6.0	5.5	MS	5.2	MS	29.1	
9	DKC 9194	3.5	4.0	3.9	4.0	MR	4.7	4.7	6.1	5.4	MS	7.6	S	13.0	
10	DKC 9198	3.6	3.6	3.3	3.4	MR	3.9	4.9	6.2	5.5	MS	4.8	MR	5.3	
11	HT 18607	3.5	3.2	3.7	3.5	MR	4.1	5.7	6.3	6.0	MS	6.7	MS	44.8	
12	IMHBG-17 K-17	2.6	3.8	3.1	3.4	MR	5.6	5.5	6.4	6.0	MS	4.9	MR	26.3	
13	IMHBG-17K-15	4.4	2.8	4.8	3.8	MR	3.6	3.6	6.4	5.0	MR	6.0	MS	21.0	
14	INDAM 1118	2.6	2.9	3.2	3.1	MR	3.1	5.2	6.2	5.7	MS	6.0	MS	12.1	
15	INDAM 1122	5.8	4.4	4.0	4.2	MR	3.1	4.5	6.3	5.4	MS	4.4	MR	12.8	
16	JH 16045	2.8	3.5	4.4	3.9	MR	4.1	4.4	6.0	5.2	MS	6.4	MS	1.0	
17	JKMH 15303	2.4	3.6	3.5	3.6	MR	3.8	5.9	5.8	5.9	MS	4.8	MR	19.6	
18	JKMH1518	2.3	3.3	3.0	3.2	MR	5.7	4.4	6.2	5.3	MS	5.3	MS	25.7	
19	KMH 004	1.5	3.9	3.1	3.5	MR	4.6	4.7	6.6	5.6	MS	5.9	MS	10.9	
20	KMH 16-29	5.6	6.6	6.2	6.4	MS	4.2	4.2	6.3	5.3	MS	7.4	S	39.1	
21	KNMH 4181	2.9	4.4	4.4	4.4	MR	3.2	4.6	6.5	5.5	MS	6.5	MS	10.8	
22	LMH 1016	2.8	3.7	2.7	3.2	MR	5.2	4.4	6.3	5.3	MS	4.2	MR	11.9	
23	LMH 3417	4.1	3.0	3.6	3.3	MR	5.0	4.7	6.1	5.4	MS	5.1	MS	16.6	
24	MM9309	3.7	3.3	2.9	3.1	MR	3.4	5.2	6.2	5.7	MS	5.8	MS	7.7	
25	NMH 4053	3.2	3.8	4.6	4.2	MR	3.3	2.3	6.1	4.2	MR	5.7	MS	1.8	
26	OMH 17-47	3.7	3.3	2.9	3.1	MR	6.7	7.0	6.4	6.7	MS	6.3	MS	3.2	
27	PM 17102 M	2.5	4.5	5.0	4.7	MR	4.5	4.8	5.6	5.2	MS	4.5	MR	0.0	
28	PM 18107 M	3.7	4.2	2.8	3.5	MR	3.9	5.7	6.2	6.0	MS	6.2	MS	12.9	
29	RCRMH 2	4.3	3.7	3.2	3.4	MR	3.4	5.5	6.1	5.8	MS	5.3	MS	4.4	
30	RCRMH 7	4.0	4.2	4.1	4.1	MR	4.5	5.0	5.6	5.3	MS	6.1	MS	25.5	
31	TUFAN	3.5	3.9	2.9	3.4	MR	3.5	5.0	6.1	5.5	MS	5.0	MR	49.7	
32	SYN816604	4.6	3.7	4.7	4.2	MR	5.3	4.2	6.1	5.2	MS	5.8	MS	0.0	

Contd....

Table 15. Screening of AVT I-II (medium maturity) maize hybrids in NWPZ

S.No.	Genotype	MLB(1-9)					BLSB(1-9)					ChR(1-9)		BSR(%)	
		DELH*	KARN	LUDH	Av.score	Reaction	DELH*	KARN	PANT	Av.score	Reaction	LUDH	Reaction	PANT*	Reaction
33	**ZH 161032**	5.7	3.5	3.1	3.3	MR	4.2	4.2	6.0	5.1	MS	4.9	MR	22.1	
34	Surya (C)	4.1	4.8	5.6	5.2	MS	4.5	6.4	6.1	6.3	MS	5.9	MS	28.2	
35	ADV 7022 (C)	3.0	3.7	4.4	4.0	MR	2.5	5.5	6.2	5.8	MS	4.8	MR	7.7	
36	BIO 9544 (C)	5.4	3.6	2.2	2.9	R	2.8	5.4	6.1	5.8	MS	5.2	MS	5.0	
37	CM 600 (C)	5.4	9.1	7.8	8.4	S	4.7	5.6	6.5	6.0	MS	7.9	S	29.0	
38	CMH 08-292 (C)	2.6	3.0	3.8	3.4	MR	3.9	3.5	6.0	4.8	MR	6.4	MS	47.3	
39	DHH 121 (C)	3.4	3.3	4.3	3.8	MR	5.7	5.2	6.3	5.7	MS	5.1	MS	20.8	
40	Early Composite (C)	3.4	6.1	5.7	5.9	MS	4.8	5.9	6.2	6.1	MS	6.2	MS	22.8	
41	RCRMH4-1 (C)	5.6	6.0	7.3	6.7	MS	4.9	5.2	6.1	5.7	MS	3.8	MR	0.0	
42	VaMH 12014 (C)	3.0	4.6	3.8	4.2	MR	5.1	4.4	6.6	5.5	MS	7.2	S	24.7	
Z1	Location Mean	3.7	3.9	4.0			4.2	5.0	6.2			5.7		16.6	
Z2	CV (%)	44.5	14.9	27.6			36.9	22.1	5.7			21.7		90.7	
Z3	F (Prob)	0.8	0.0	0.0			0.9	0.5	0.8			0.4		0.1	
Z4	CD (5%)	3.3	1.2	2.2			3.2	2.2	0.7			2.5		30.7	
Z5	CD (1%)	4.5	1.6	3.0			4.3	3.0	1.0			3.4		41.2	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022 , VaMH 12014 (MLB); ADV 7022, VaMH 12014 (BLSB); ADV 7022 ,VaMH 12014 (BSR); ADV 7022, VaMH 12014, BIO 9544 (ChR)

Susceptible check:- Surya, Early Composite, CM 600, RCRMH4-1 (MLB); Early Composite, CM 600, RCRMH4-1 (BLSB); Early Composite, CM 600, RCRMH4-1 (BSR); Surya (ChR)

Table 16. Screening of AVT I-II (early maturity) maize hybrids in NWPZ

S.No.	Genotype	MLB(1-9)					BLSB(1-9)					ChR(1-9)		BSR(%)	
		DELH*	KARN	LUDH	Av.Score	Reaction	DELH*	KARN	PANT	Av.Score	Reaction	LUDH	Reaction	PANT*	Reaction
1	AH 8181	6.0	4.0	4.5	4.3	MR	4.0	5.4	5.8	5.6	MS	7.2	S	69.5	
2	FH 3861	3.5	3.8	4.0	3.9	MR	4.5	5.6	6.2	5.9	MS	6.1	MS	16.3	
3	FH 3879	4.0	3.0	3.5	3.3	MR	4.5	6.2	6.2	6.2	MS	4.7	MR	60.6	
4	JH 31947	2.5	3.0	3.0	3.0	R	4.5	6.7	5.9	6.3	MS	5.4	MS	20.0	
5	JH 31950	4.0	3.5	4.0	3.8	MR	3.0	5.7	6.2	5.9	MS	4.0	MR	50.3	
6	JH 32014	4.0	5.0	3.0	4.0	MR	3.5	5.1	6.0	5.5	MS	6.0	MS	48.6	
7	JH 32056	3.0	4.0	3.5	3.8	MR	2.5	5.4	6.6	6.0	MS	7.6	S	91.7	
8	JH 32057	2.0	3.5	3.5	3.5	MR	4.0	5.1	6.2	5.6	MS	5.1	MS	47.7	
9	JH 32094	2.5	3.5	2.5	3.0	R	4.0	5.3	6.0	5.7	MS	6.5	MS	38.4	
10	Surya (C)	3.5	4.3	5.0	4.6	MR	4.5	4.0	6.2	5.1	MS	6.2	MS	34.1	
11	VaMH 12014 (C)	4.0	4.3	3.0	3.6	MR	4.0	3.6	6.7	5.2	MS	7.5	S	61.2	
12	ADV 7022 (C)	2.5	4.5	5.0	4.8	MR	5.5	5.6	6.3	5.9	MS	5.2	MS	22.2	
13	BIO 605 (C)	3.0	3.8	3.5	3.6	MR	4.0	5.7	6.2	5.9	MS	5.8	MS	12.5	
14	CM 600 (C)	5.0	8.5	8.0	8.3	S	4.0	4.6	6.5	5.5	MS	7.6	S	45.8	
15	DKC 7074 (C)	2.0	3.3	4.0	3.6	MR	5.0	5.4	5.9	5.7	MS	4.4	MR	31.4	
16	Early Composite (C)	4.0	8.0	3.5	5.8	MS	3.5	4.3	5.7	5.0	MR	7.8	S	17.2	
Z1	Location Mean	3.5	4.4	4.0			4.1	5.2	6.1			6.1		41.7	
Z2	CV (%)	57.5	14.0	16.9			35.3	22.1	5.2			16.5		43.1	
Z3	F (Prob)	0.8	0.0	0.0			0.9	0.6	0.2			0.0		0.0	
Z4	CD (5%)	4.3	1.3	1.4			3.1	2.5	0.7			2.1		38.3	
Z5	CD (1%)	5.9	1.8	2.0			4.2	3.4	0.9			2.9		52.9	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022 , VaMH 12014 (MLB); ADV 7022, VaMH 12014 (BLSB); ADV 7022 ,VaMH 12014 (BSR); ADV 7022, VaMH 12014 (ChR)

Susceptible check:- Surya , Early Composite, CM 600 (MLB); Early Composite, CM 600 (BLSB); Early Composite, CM 600 (BSR); Surya (ChR)

Table 17. Screening of QPM I II III hybrids in NWPZ

S.No.	Genotype	MLB(1-9)					BLSB(1-9)					ChR(1-9)		BSR(%)	
		DELH*	KARN	LUDH	Av.score	Reaction	DELH	KARN	PANT	Av.score	Reaction	LUDH	Reaction	PANT*	Reaction
1	APH 1 (PROA)	2.9	4.3	4.3	4.3	MR	3.3	3.8	6.3	4.5	MR	4.9	MR	56.2	
2	APH 2 (PROA)	3.9	3.2	3.5	3.3	MR	4.9	6.0	6.5	5.8	MS	6.8	MS	8.4	
3	APH3 (PROA)	2.7	4.3	3.9	4.1	MR	4.3	5.1	6.0	5.1	MS	5.7	MS	12.2	
4	APQH 1 (QPM+PROA)	3.1	5.5	5.7	5.6	MS	4.2	5.5	6.2	5.3	MS	4.5	MR	9.4	
5	APQH 8 (QPM+PROA)	2.9	3.8	3.8	3.8	MR	3.8	5.7	6.6	5.4	MS	4.8	MR	53.1	
6	FQH 148	4.8	5.1	7.0	6.0	MS	4.5	6.9	6.9	6.1	MS	7.4	S	17.9	
7	IIMRQPMH 1705	4.9	4.0	4.0	4.0	MR	4.9	5.0	6.6	5.5	MS	5.8	MS	14.6	
8	IIMRQPMH 1708	3.8	4.2	4.2	4.2	MR	4.3	3.7	6.1	4.7	MR	6.7	MS	13.6	
9	IQPMH-18-2	4.4	5.3	3.8	4.6	MR	5.3	5.4	6.4	5.7	MS	3.6	MR	28.1	
10	IQPMH-18-4	3.4	3.7	3.5	3.6	MR	4.9	5.8	5.6	5.4	MS	6.5	MS	0.0	
11	IQPMH-19-1	3.8	3.2	5.7	4.5	MR	5.8	5.9	5.9	5.8	MS	3.9	MR	0.0	
12	IQPMH-19-2	4.8	4.4	5.5	4.9	MR	4.0	4.7	6.4	5.0	MR	4.4	MR	34.3	
13	IQPMH-19-3	3.1	4.0	5.2	4.6	MR	7.2	3.5	6.4	5.7	MS	6.4	MS	26.0	
14	IQPMH-19-4	5.7	5.1	6.9	6.0	MS	6.3	2.7	6.4	5.1	MS	2.8	R	1.8	
15	VEHQ 16-1	2.9	4.3	6.8	5.6	MS	5.8	5.2	6.7	5.9	MS	4.8	MR	18.7	
16	QPM MH-51	3.4	4.2	5.5	4.8	MR	3.4	7.0	6.2	5.6	MS	6.8	MS	12.2	
17	Surya (C)	4.0	5.0	5.2	5.1	MS	3.8	5.0	6.0	4.9	MR	6.2	MS	47.2	
18	ADV7022(C)	4.5	5.2	6.3	5.7	MS	5.7	6.7	6.3	6.2	MS	5.0	MR	24.8	
19	APQH 9 (C)	4.3	4.5	7.7	6.1	MS	5.3	6.9	7.1	6.4	MS	7.4	S	28.2	
20	CM 400 (C)	5.5	7.2	8.2	7.7	S	5.8	5.1	6.5	5.8	MS	8.0	S	41.9	
21	CM 500 (C)	3.0	6.9	6.5	6.7	MS	4.0	6.7	6.3	5.7	MS	6.0	MS	0.0	
22	EarlyComposite (C)	7.0	6.4	4.8	5.6	MS	6.2	3.0	6.3	5.2	MS	5.4	MS	16.2	
23	HQPM-1 (C)	3.0	5.1	5.5	5.3	MS	5.0	4.4	6.3	5.2	MS	3.2	MR	0.0	
24	HQPM-5 (C)	4.5	4.5	5.2	4.8	MR	6.3	5.2	6.8	6.1	MS	4.3	MR	67.4	
25	HQPM-7 (C)	3.5	5.4	6.3	5.9	MS	4.7	5.3	6.5	5.5	MS	5.1	MS	13.4	
26	PUSA HM8 IMPROVED (C)	4.3	4.7	5.2	5.0	MR	4.3	3.5	6.8	4.8	MR	4.1	MR	16.2	
27	Pratap QPM Hybrid (C)	4.5	5.9	6.3	6.1	MS	5.7	5.7	6.4	5.9	MS	5.9	MS	24.5	
28	RCRMH4-1 (C)	4.5	6.1	7.5	6.8	MS	3.0	5.9	6.2	5.0	MR	2.7	R	1.6	
29	VaMH12014 (C)	2.5	3.4	4.0	3.7	MR	6.0	4.7	6.4	5.7	MS	3.7	MR	25.6	
30	Vivek QPM 9 (C)	3.5	3.5	6.2	4.8	MR	6.3	4.7	6.5	5.9	MS	4.2	MR	25.6	
Z1	Location Mean	4.0	4.8	5.5			5.0	5.2	6.4			5.2		20.5	
Z2	CV (%)	42.0	15.1	17.8			27.3	20.0	6.4			22.6		94.6	
Z3	F (Prob)	0.8	0.0	0.0			0.4	0.0	0.4			0.0		0.3	
Z4	CD (5%)	3.4	1.5	2.0			2.8	2.1	0.9			2.4		40.0	
Z5	CD (1%)	4.6	2.0	2.7			3.8	2.9	1.2			3.3		54.1	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022, VaMH 12014 (MLB); ADV 7022, VaMH 12014 (BLSB); ADV 7022, VaMH 12014 (BSR); ADV 7022, VaMH 12014 (ChR)

Susceptible check:- Surya, Early Composite, RCRMH4-1 (MLB); Early Composite, RCRMH4-1 (BLSB); Early Composite, RCRMH4-1 (BSR); Surya (ChR)

Table 18. Screening of baby corn I II III maize hybrids in NWPZ

S.No.	Genotype	MLB(1-9)					BLSB(1-9)					ChR(1-9)		BSR(%)	
		DELH*	KARN	LUDH	Av.score	Reaction	DELH	KARN	PANT	Av.score	Reaction	LUDH	Reaction	PANT*	Reaction
1	ABHS4-1	4.5	4.0	4.5	4.3	MR	4.0	6.5	6.5	5.7	MS	7.3	S	38.0	
2	ABHS4-2	3.5	3.3	5.0	4.1	MR	5.5	3.9	6.2	5.2	MS	5.2	MS	0.0	
3	AH 5021	4.0	3.8	6.5	5.1	MS	3.5	4.3	7.4	5.0	MR	6.3	MS	20.0	
4	AH 7043	4.0	3.3	4.0	3.6	MR	3.0	6.7	9.0	6.2	MS	4.3	MR	16.7	
5	AH 7188	4.5	3.5	5.0	4.3	MR	5.0	4.4	6.2	5.2	MS	4.6	MR	18.5	
6	AH 7204	5.0	3.8	6.5	5.1	MS	5.5	4.5	6.5	5.5	MS	6.3	MS	6.3	
7	AHB 7985	3.0	3.8	4.0	3.9	MR	5.0	5.7	6.4	5.7	MS	7.3	S	28.9	
8	BAU BCH 18-1	4.0	4.3	5.5	4.9	MR	4.0	5.3	6.4	5.2	MS	6.0	MS	18.3	
9	DBCH 326	3.5	4.0	4.0	4.0	MR	7.0	3.0	6.2	5.4	MS	5.0	MR	4.2	
10	IMHSB-19KB-1	2.0	3.5	5.5	4.5	MR	6.5	6.2	6.3	6.3	MS	6.0	MS	67.5	
11	IMHSB-19KB-2	4.0	2.5	5.0	3.8	MR	5.0	4.4	6.1	5.2	MS	4.0	MR	15.0	
12	LMH 3517	2.5	3.3	4.5	3.9	MR	6.0	7.4	6.0	6.5	MS	4.4	MR	71.4	
13	PAC 321	3.5	2.5	5.0	3.8	MR	5.0	6.4	6.9	6.1	MS	3.4	MR	4.6	
14	Surya (C)	2.5	4.3	4.5	4.4	MR	4.5	5.7	6.8	5.6	MS	7.0	MS	40.9	
15	CM 600 (C)	5.5	7.8	8.0	7.9	S	4.5	7.4	6.3	6.1	MS	5.2	MS	58.3	
16	CMVL Baby corn 2 (C)	7.0	4.8	6.0	5.4	MS	4.7	6.4	6.2	5.8	MS	8.0	S	27.8	
17	Early Composite (C)	3.0	4.5	5.5	5.0	MR	4.0	6.3	6.1	5.4	MS	4.1	MR	9.2	
18	HM 4 (C)	3.5	3.8	5.0	4.4	MR	3.5	6.2	6.8	5.5	MS	5.5	MS	16.7	
19	RCRMH4-1 (C)	6.0	5.5	7.5	6.5	MS	4.5	5.4	6.5	5.5	MS	3.9	MR	50.0	
20	ADV 7022 (C)	3.5	3.5	5.5	4.5	MR	4.5	4.0	6.6	5.0	MR	4.5	MR	12.5	
21	VaMH 12014 (C)	2.5	2.5	3.5	3.0	R	5.0	4.5	6.2	5.2	MS	4.7	MR	45.8	
Z1	Location Mean	3.9	3.9	5.3			4.8	5.4	6.5			5.4		27.2	
Z2	CV (%)	41.9	17.9	23.6			29.7	23.8	8.9			26.5		87.7	
Z3	F (Prob)	0.4	0.0	0.1			0.5	0.1	0.0			0.1		0.2	
Z4	CD (5%)	3.4	1.5	2.6			3.0	2.7	1.2			3.0		49.7	
Z5	CD (1%)	4.7	2.0	3.5			4.1	3.7	1.7			4.1		67.8	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022, VaMH 12014 (MLB); ADV 7022, VaMH 12014 (BLSB); ADV 7022,VaMH 12014 (BSR); ADV 7022, VaMH 12014 (ChR)

Susceptible check:- Surya, Early Composite, CM 600, RCRMH4-1 (MLB); Early Composite, CM 600, RCRMH4-1 (BLSB); Early Composite, CM 600, RCRMH4-1 (BSR); Surya (ChR)

Table 19. Screening of sweet corn I II III hybrids in NWPZ

S.No.	Genotype	MLB(1-9)					BLSB(1-9)					ChR(1-9)		BSR(%)	
		DELH*	KARN	LUDH	Av.score	Reaction	DELH*	KARN	PANT	Av.score	Reaction	LUDH	Reaction	PANT*	Reaction
1	BSCH 417006	5.0	7.0	6.5	6.8	MS	4.5	6.7	6.3	6.5	MS	5.9	MS	78.8	
2	BSCH 417139	4.0	6.0	7.5	6.8	MS	3.5	2.9	6.4	4.6	MR	6.2	MS	58.9	
3	CP Sweet 2	3.5	4.3	4.0	4.1	MR	6.1	5.7	6.5	6.1	MS	4.7	MR	77.3	
4	CPSC 301	4.5	4.0	4.5	4.3	MR	3.1	7.1	7.4	7.2	S	6.5	MS	69.2	
5	ISCH 0913	6.0	8.0	6.5	7.3	S	4.5	6.1	6.6	6.3	MS	5.6	MS	41.3	
6	ISCH 1901	4.5	5.5	5.0	5.3	MS	3.0	6.3	6.4	6.3	MS	5.4	MS	75.0	
7	NUZI 205	3.5	4.3	3.5	3.9	MR	5.0	6.1	6.4	6.2	MS	5.8	MS	47.2	
8	NUZI 260	5.0	3.3	5.0	4.1	MR	4.5	5.7	6.0	5.8	MS	3.9	MR	11.7	
9	Sweet Purple	5.5	4.3	5.0	4.6	MR	4.5	4.6	7.6	6.1	MS	5.3	MS	37.5	
10	Top Sweet	3.5	5.3	4.0	4.6	MR	5.0	4.4	6.4	5.4	MS	5.3	MS	32.2	
11	Super sweet	4.5	5.0	6.0	5.5	MS	6.5	5.6	6.3	5.9	MS	5.3	MS	54.2	
12	Surya (C)	4.5	4.0	5.0	4.5	MR	3.1	5.8	6.5	6.1	MS	4.1	MR	15.7	
13	ADV 7022 (C)	4.0	4.8	4.0	4.4	MR	5.5	5.6	6.6	6.1	MS	2.9	R	13.2	
14	ADVSW-1 (C)	4.5	5.5	4.0	4.8	MR	5.5	2.9	6.5	4.7	MR	6.5	MS	91.7	
15	ADVSW-2 (C)	3.5	4.5	4.5	4.5	MR	3.5	5.9	6.2	6.1	MS	5.9	MS	55.8	
16	CMVL SC 1 (C)	5.5	4.5	4.5	4.5	MR	4.5	6.2	6.5	6.3	MS	3.7	MR	91.7	
17	Early Composite (C)	5.5	3.8	5.0	4.4	MR	5.5	6.1	6.3	6.2	MS	5.5	MS	33.4	
18	Misthi (C)	4.0	4.3	4.0	4.1	MR	4.5	7.4	6.5	7.0	MS	3.2	MR	26.3	
19	RCRMH4-1 (C)	4.0	5.8	7.0	6.4	MS	3.5	4.7	6.5	5.6	MS	3.3	MR	27.3	
20	VaMH 12014 (C)	3.5	3.3	4.5	3.9	MR	3.5	4.4	6.6	5.5	MS	5.0	MR	40.3	
Z1	Location Mean	4.4	4.9	5.0			4.5	5.5	6.5			5.0		48.9	
Z2	CV (%)	38.3	19.6	22.4			33.8	21.3	8.2			19.5		61.3	
Z3	F (Prob)	1.0	0.0	0.1			0.7	0.1	0.5			0.0		0.2	
Z4	CD (5%)	3.5	2.0	2.4			3.2	2.5	1.1			2.0		62.8	
Z5	CD (1%)	4.8	2.7	3.2			4.4	3.4	1.5			2.8		85.8	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022, VaMH 12014 (MLB); ADV 7022, VaMH 12014 (BLSB); ADV 7022, VaMH 12014 (BSR); ADV 7022, VaMH 12014 (ChR)

Susceptible check:- Surya, Early Composite, RCRMH4-1 (MLB); Early Composite, RCRMH4-1 (BLSB); Early Composite, RCRMH4-1 (BSR); Surya (ChR)

Table 20. Screening of Rainfed (late maturity) maize hybrids in NWPZ

S.No.	Genotype	MLB(1-9)					BLSB(1-9)					ChR(1-9)		BSR(%)	
		DELH	KARN	LUDH	Av.score	Reaction	DELH	KARN	PANT	Av.score	Reaction	LUDH	Reaction	PANT*	Reaction
1	CMH 12 -686	2.0	3.8	2.0	2.6	R	7.0	6.4	5.8	6.4	MS	4.2	MR	37.5	
2	CMH 15-005	3.5	3.0	3.0	3.2	MR	5.5	2.9	5.8	4.7	MR	4.7	MR	83.3	
3	Surya (C)	4.5	5.0	4.0	4.5	MR	5.5	7.3	5.7	6.2	MS	4.3	MR	29.9	
4	ADV 7022 (C)	4.5	4.3	3.0	3.9	MR	4.0	6.1	5.9	5.3	MS	5.4	MS	50.0	
5	Bio 9682 (C)	3.5	3.5	2.5	3.2	MR	4.5	4.1	5.8	4.8	MR	4.2	MR	13.6	
6	CHM 08-282 (C)	5.0	3.0	2.5	3.5	MR	5.0	5.3	5.9	5.4	MS	4.0	MR	25.0	
7	CMH 08-287 (C)	4.0	3.0	2.5	3.2	MR	6.0	4.3	5.6	5.3	MS	4.5	MR	46.1	
8	Early Composite (C)	3.5	3.8	3.0	3.4	MR	4.0	2.8	6.0	4.3	MR	3.0	R	50.0	
9	NK 6240 (C)	3.0	3.3	2.5	2.9	R	4.0	4.3	5.7	4.7	MR	6.1	MS	50.0	
10	RCRMH-4-1 (C)	3.5	7.0	7.0	5.8	MS	4.5	6.5	6.0	5.7	MS	4.3	MR	9.2	
Z1	Location Mean	3.7	4.0	3.2			5.0	5.0	5.8			4.5		39.5	
Z2	CV (%)	29.9	13.3	11.4			23.3	27.4	4.7			27.2		83.5	
Z3	F (Prob)	0.4	0.0	0.0			0.3	0.1	0.8			0.5		0.6	
Z4	CD (5%)	2.5	1.2	0.8			2.6	3.1	0.6			2.8		74.6	
Z5	CD (1%)	3.6	1.7	1.2			3.8	4.4	0.9			4.0		107.1	

Resistant check:- ADV 7022, (MLB); ADV 7022 (BLSB); ADV 7022 (BSR); ADV 7022 (ChR)

Susceptible check:- Surya, Early Composite, RCRMH4-1 (MLB); Early Composite, RCRMH4-1 (BLSB); Early Composite, RCRMH4-1 (BSR); Surya (ChR)

Table 21. Screening of Rainfed (medium maturity) maize hybrids in NWPZ

S.No.	Genotype	MLB(1-9)					BLSB(1-9)					ChR(1-9)		BSR(%)	
		DELH	KARN	LUDH	Av.score	Reaction	DELH	KARN	PANT	Av.score	Reaction	LUDH	Reaction	PANT*	Reaction
1	CAH1511	5.0	2.8	3.5	3.8	MR	5.0	4.3	6.1	5.1	MS	4.7	MR	28.9	
2	VaMH 15036	4.0	3.0	3.0	3.3	MR	5.0	7.4	6.1	6.2	MS	7.3	S	45.5	
3	RCRMH7(ZH138388)	4.0	3.5	2.5	3.3	MR	3.5	2.7	6.1	4.1	MR	3.9	MR	47.4	
4	Surya (C)	5.5	4.8	3.5	4.6	MR	6.5	4.4	6.1	5.7	MS	5.5	MS	28.9	
5	ADV 7022 (C)	5.5	3.5	3.5	4.2	MR	4.0	7.2	6.1	5.8	MS	6.6	MS	8.0	
6	Bio 9544 (C)	3.5	3.3	3.5	3.4	MR	4.0	6.8	5.9	5.6	MS	5.6	MS	21.4	
7	CMH 08 292 (C)	3.0	3.0	3.0	3.0	R	5.0	5.2	5.7	5.3	MS	5.9	MS	57.5	
8	DHM 121 (C)	3.5	3.0	3.5	3.3	MR	3.0	4.4	5.8	4.4	MR	4.7	MR	27.3	
9	Early Composite (C)	5.0	3.3	2.5	3.6	MR	4.5	4.5	6.1	5.0	MR	4.6	MR	0.0	
10	RCRMH-4-1 (C)	3.0	5.8	7.0	5.3	MS	5.5	6.5	6.1	6.0	MS	5.3	MS	20.8	
Z1	Location Mean	4.1	3.5	3.5			4.8	5.5	6.0			5.2		26.0	
Z2	CV (%)	28.7	13.6	12.2			26.9	29.5	4.1			28.6		76.5	
Z3	F (Prob)	0.4	0.0	0.0			0.3	0.2	0.6			0.5		0.2	
Z4	CD (5%)	2.6	1.1	1.0			2.9	3.6	0.5			3.3		44.3	
Z5	CD (1%)	3.8	1.5	1.4			4.1	5.1	0.8			4.8		63.0	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022 (MLB); ADV 7022 (BLSB); ADV 7022 (BSR); ADV 7022, Bio 9544 (ChR)

Susceptible check:- Surya, Early Composite, RCRMH4-1 (MLB); Early Composite, RCRMH4-1 (BLSB); Early Composite, RCRMH4-1 (BSR); Surya (ChR)

Table 22. Screening of Rainfed (early maturity) maize hybrids in NWPZ

S.No.	Genotype	MLB(1-9)					BLSB(1-9)					ChR(1-9)		BSR(%)	
		DELH*	KARN	LUDH*	Av.score	Reaction	DELH*	KARN*	PANT	Av.score	Reaction	LUDH	Reaction	PANT	Reaction
1	ADH 8106	-	-	-	-	-	-	-	-	-	-	-	-	5.0	R
2	ADH 1619	4.5	4.0	5.0	4.0	MR	3.5	5.0	5.9	5.9	MS	7.1	S	0.0	R
3	ADH 8106	2.5	3.5	2.5	3.5	MR	3.0	5.4	5.9	5.9	MS	7.2	S	35.2	MS
4	Surya (C)	3.5	4.0	3.0	4.0	MR	4.5	4.4	6.0	6.0	MS	7.5	S	12.5	MR
5	Bio 605 (C)	-	-	-	-	-	-	-	-	-	-	-	-	17.4	MR
6	ADV 7022 (C)	2.5	3.0	3.5	3.0	R	3.5	5.0	6.0	6.0	MS	4.4	MR	21.5	MR
7	AH 8127 (C)	3.5	3.8	4.0	3.8	MR	4.5	6.7	5.7	5.7	MS	4.7	MR	0.0	R
8	Bio 605 (C)	3.0	2.5	3.0	2.5	R	6.0	4.9	6.0	6.0	MS	6.7	MS	37.5	MS
9	DKC7074 (C)	4.5	4.3	3.5	4.3	MR	4.0	4.6	6.2	6.2	MS	6.3	MS	0.0	R
10	Early Composite (C)	4.5	5.3	5.5	5.3	MS	5.0	5.1	6.0	6.0	MS	5.7	MS	20.8	MR
11	RCRMH-4-1 (C)	3.0	5.0	5.5	5.0	MR	3.5	7.0	5.9	5.9	MS	4.9	MR	33.3	MS
12	Vivek Hybrid 45 (C)	5.0	5.3	5.0	5.3	MS	4.5	6.3	5.9	5.9	MS	7.1	S	16.7	MR
13	Vivek Hybrid 51 (C)	3.0	3.8	3.0	3.8	MR	3.5	6.3	6.5	6.5	MS	8.5	S	47.7	MS
Z1	Location Mean	3.6	4.0	4.0			4.1	5.5	6.0			6.4		0.0	
Z2	CV (%)	40.8	23.7	32.3			42.1	41.3	3.9			21.0		17.7	
Z3	F (Prob)	0.7	0.2	0.3			0.9	1.0	0.3			0.2		25.2	
Z4	CD (5%)	3.3	2.1	2.8			3.9	5.1	0.5			3.0			
Z5	CD (1%)	4.6	3.0	4.0			5.52	7.21	0.73			4.2			

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022 (MLB); ADV 7022 (BLSB); ADV 7022 (BSR); ADV 7022 (ChR)

Susceptible check:- Surya, Early Composite, RCRMH4-1 (MLB); Early Composite, RCRMH4-1 (BLSB); Early Composite, RCRMH4-1 (BSR); Surya (ChR)

Table 23. Screening of NIVT (late maturity) maize hybrids in NEPZ

S.No.	Genotype	MLB(1-9)	
		DHOL	Reaction
1	ADV7713	5.8	MS
2	AH 8072	5.6	MS
3	AH 8753	4.6	MR
4	AH1645	5.7	MS
5	AH4139	4.5	MR
6	AH4272	5.3	MS
7	AH5158	5.3	MS
8	BH 417202	5.1	MS
9	BRMH-17068	4.0	MR
10	CMH 08-292 (Filler)	6.0	MS
11	CMH-15-006	4.9	MR
12	CMH-15-008	7.1	S
13	CP 555	2.9	R
14	CP 802	5.7	MS
15	DKC 9207	3.2	MR
16	GH16352	5.1	MS
17	GK 3218	3.1	MR
18	HMM 1018	6.3	MS
19	HT 519074	4.5	MR
20	IM12723	4.6	MR
21	IMHSB-19K-12	5.8	MS
22	IMHSB-19K-13	4.1	MR
23	IMHSB-19K-14	6.6	MS
24	IMHVS-102	5.2	MS
25	JH 17011	7.2	S
26	JH 18056	2.8	R
27	JH 18057	5.1	MS
28	JH 18087	3.2	MR
29	JH 18088	5.6	MS
30	JH 18091	4.9	MR
31	KH 2193	4.2	MR
32	KH 5146	4.3	MR
33	KMH-8322	5.0	MR
34	KMH-8333	5.7	MS
35	MM2424	7.0	MS
36	NMH 4313	4.4	MR
37	PM 19104L	3.1	MR
38	PM 19105 L	3.8	MR
39	PM 19106 L	4.3	MR
40	PM 19107 L	3.9	MR
41	PM 19108 L	3.5	MR
42	PM 19109 L	5.1	MS

contd…

Table 23. Screening of NIVT (late maturity) maize hybrids in NEPZ

S.No.	Genotype	MLB(1-9)	
		DHOL	Reaction
43	PM 19110 L	3.6	MR
44	PM 19111 L	4.1	MR
45	QMH-1604	5.1	MS
46	QMH-16101	3.7	MR
47	QMH-1617	4.4	MR
48	QMH-1697	3.8	MR
49	Rasi 6597	4.7	MR
50	Rasi 70574	6.9	MS
51	SBMH 1817	6.4	MS
52	SVMH 1627	5.8	MS
53	SYN916801	2.8	R
54	TMMH 853	5.5	MS
55	VNR37650	4.4	MR
56	VNR4343	4.6	MR
57	Surya (C)	5.8	MS
58	ADV 7022 (C)	3.5	MR
59	CM 600 (C)	8.5	S
60	BIO 9682 (C)	3.5	MR
61	CMH 08-282 (C)	5.1	MS
62	CMH 08-287 (C)	4.1	MR
63	Early Composite (C)	6.4	MS
64	NK6240 (C)	4.0	MR
65	RCRMH4-1 (C)	5.4	MS
66	VaMH 12014 (C)	5.4	MS
Z1	Location Mean	4.9	
Z2	CV (%)	28.1	
Z3	F (Prob)	0.3	
Z4	CD (5%)	2.8	
Z5	CD (1%)	3.7	

Resistant check:- ADV 7022 (MLB); VaMH 12014 (MLB)
Susceptible check:- Surya(MLB); Early Composite(MLB); CM600(MLB); RCRMH4-1(MLB)

Table 24. Screening of NIVT (medium maturity) maize hybrids in NEPZ

S.No.	Genotype	MLB(1-9)	
		DHOL	Reaction
1	AH 8245 R	2.8	R
2	AH 8452	5.3	MS
3	AH1625	4.8	MR
4	AH1634	4.5	MR
5	AH4142	4.1	MR
6	AH4167	4.7	MR
7	BAU-MH-18-2	8.1	S
8	BAU-MH-18-3	6.3	MS
9	BH 417152	4.6	MR
10	BH 417182	4.8	MR
11	BH 417193	5.5	MS
12	CMH-12-686	4.8	MR
13	CMH-15-012	4.5	MR
14	DH 327	5.8	MS
15	DH 328	3.7	MR
16	EH 3638	4.5	MR
17	HMM 1014	7.3	S
18	HMM 1019	6.2	MS
19	IMHL-K-19-1	5.8	MS
20	IWH 1407	8.2	S
21	IYH 1603	7.2	S
22	JH 18064	3.8	MR
23	JH 18065	3.4	MR
24	JH 18099	5.8	MS
25	JH 32104	5.0	MR
26	KMH 18-42	7.3	S
27	KMH 18-71	7.5	S
28	KNMH 4191	4.5	MR
29	KNMH 4192	6.6	MS
30	KNMH 4194	5.2	MS
31	LMH 4119	5.8	MS
32	LMH 4219	6.7	MS
33	LMH 4319	5.3	MS
34	LMH 4419	3.9	MR
35	OMH17-19	3.0	R
36	OMH17-24	6.9	MS
37	RCRMH 13	4.6	MR
38	RCRMH 14	4.6	MR
39	VaMH 16008	5.1	MS
40	Surya (C)	5.1	MS
41	ADV 7022 (C)	5.8	MS
42	BIO 9544 (C)	4.1	MR

contd…

Table 24. Screening of NIVT (medium maturity) maize hybrids in NEPZ

S.No.	Genotype	MLB(1-9)	
		DHOL	Reaction
43	CM 600 (C)	7.2	S
44	CMH 08-292 (C)	5.0	MR
45	DHM 121 (C)	3.8	MR
46	Early Composite (C)	6.0	MS
47	RCRMH4-1 (C)	5.4	MS
48	VaMH 12014 (C)	6.5	MS
Z1	Location Mean	5.4	
Z2	CV (%)	19.9	
Z3	F (Prob)	0.0	
Z4	CD (5%)	2.2	
Z5	CD (1%)	2.9	

Resistant check:- ADV 7022(MLB); VaMH 12014(MLB)
Susceptible check:- Surya(MLB); Early Composite(MLB); CM600(MLB); RCRMH4-1(MLB)

Table 25. Screening of NIVT A (medium maturity) maize hybrids in NEPZ

S.No.	Genotype	MLB(1-9)	
		DHOL	Reaction
1	ADV 7745	4.7	MR
2	DKC 8205	6.1	MS
3	DKC 8209	3.7	MR
4	GGMH-114	6.4	MS
5	GK 3207	5.1	MS
6	HKH-371	5.6	MS
7	HKH-372	5.6	MS
8	HM 19203	4.8	MR
9	HM 19305	4.3	MR
10	HT 519015	4.5	MR
11	IAHM 2016-38	4.7	MR
12	IAHM2016-2	6.1	MS
13	IIMWH 1901	6.5	MS
14	IMHSB-19K-10	5.5	MS
15	IMHSB-19K-11	5.3	MS
16	IMHSB-19K-2	4.9	MR
17	IMHSB-19K-3	7.1	S
18	IMHSB-19K-4	5.9	MS
19	IMHSB-19K-5	5.9	MS
20	IMHSB-19K-6	7.0	MS
21	IMHSB-19K-7	6.3	MS
22	IMHSB-19K-8	5.7	MS
23	IMHSB-19K-9	4.2	MR
24	IMHVS-101	3.3	MR
25	JKMH 1481	4.8	MR
26	KH 518	3.9	MR
27	KSP-5391	4.9	MR
28	MH 1941	4.1	MR
29	MH 1945	5.4	MS
30	MH 1948	6.0	MS
31	NMH 4144	5.3	MS
32	PM 19101 M	5.4	MS
33	PM 19102 M	5.4	MS
34	PM 19103 M	6.0	MS
35	SVMH-1130	7.2	S
36	SYN-916248	4.5	MR
37	SYN916540	3.9	MR
38	SYN916701	6.4	MS
39	TS 2609	4.7	MR
40	Surya (C)	7.0	MS
41	ADV 7022 (C)	6.4	MS
42	BIO 9544 (C)	3.8	MR

contd...

Table 25. Screening of NIVT A (medium maturity) maize hybrids in NEPZ

S.No.	Genotype	MLB(1-9)	
		DHOL	Reaction
43	CM 600 (C)	7.8	S
44	CMH 08-292 (C)	4.2	MR
45	DHM 121 (C)	4.7	MR
46	Early Composite (C)	7.3	S
47	RCRMH4-1 (C)	6.7	MS
48	VaMH 12014 (C)	5.9	MS
Z1	Location Mean	5.4	
Z2	CV (%)	21.9	
Z3	F (Prob)	0.1	
Z4	CD (5%)	2.4	
Z5	CD (1%)	3.2	

Resistant check:- ADV 7022(MLB); VaMH 12014(MLB)
Susceptible check:- Surya(MLB); Early Composite(MLB); CM600(MLB); RCRMH4-1(MLB)

Table 26. Screening of NIVT (early maturity) maize hybrids in NEPZ

S.No.	Genotype	MLB(1-9)	
		DHOL	Reaction
1	AH 8178	5.4	MS
2	AH 8323	3.9	MR
3	AH 8622	6.7	MS
4	AH1608	4.1	MR
5	AH3254	6.6	MS
6	BAU-MH-18-1	5.2	MS
7	BYMH-13-5	5.4	MS
8	DH 321	5.6	MS
9	DH 329	6.4	MS
10	DH 330	6.3	MS
11	DKC 7204	3.6	MR
12	EH 3524	3.9	MR
13	EH 3571	6.1	MS
14	FH 3912	5.2	MS
15	HKH 370	7.0	MS
16	IMHSB-19K-1	6.4	MS
17	JH 32006	4.4	MR
18	JH 32328	4.8	MR
19	JH 32375	6.2	MS
20	JH 32385	4.6	MR
21	JH 32391	5.4	MS
22	KH 102E	4.9	MR
23	KMH 18-13	4.3	MR
24	KMH 18-15	5.1	MS
25	KNMH 4193	4.2	MR
26	LMH 1946	4.8	MR
27	Rasi 50252	5.5	MS
28	VEH18-1	5.3	MS
29	Surya (C)	5.1	MS
30	ADV 7022 (C)	6.5	MS
31	Bio 605 (C)	4.6	MR
32	CM 600 (C)	6.4	MS
33	DKC7074 (C)	5.4	MS
34	Early Composite (C)	5.5	MS
35	RCRMH4-1 (C)	5.5	MS
36	VaMH 12014 (C)	6.5	MS
Z1	Location Mean	5.4	
Z2	CV (%)	23.7	
Z3	F (Prob)	0.6	
Z4	CD (5%)	2.6	
Z5	CD (1%)	3.5	

Resistant check:- ADV 7022(MLB); VaMH 12014(MLB)

Susceptible check:- Surya(MLB); Early Composite(MLB); CM600(MLB); RCRMH4-1(MLB)

Table 27. Screening of AVT I-II (late maturity) maize hybrids in NEPZ

S.No.	Genotype	MLB(1-9)	
		DHOL	Reaction
1	ADV 1390064	5.4	MS
2	ADV 1390164	5.8	MS
3	ADV 7132	6.1	MS
4	B57	5.4	MS
5	BLH 137	4.4	MR
6	Bio 218	5.2	MS
7	Bio 534	6.1	MS
8	CP 858	4.2	MR
9	HT 17169	4.6	MR
10	JH 16041	5.4	MS
11	JH 16081	5.7	MS
12	JH 16224	5.8	MS
13	JH 17026	5.4	MS
14	JKMH 150375	5.8	MS
15	KMH 005	6.9	MS
16	KMH 463	5.1	MS
17	PM 18101 L	5.9	MS
18	PM 18104 L	5.7	MS
19	PM 18105 L	6.6	MS
20	PM 18106 L	6.7	MS
21	RCM 1-61	4.7	MR
22	RCM 1-76	7.6	S
23	Rasi 3499	6.4	MS
24	Rasi 4992	4.8	MR
25	SUPER 1818	6.2	MS
26	SYN816514	5.0	MR
27	TS 2505	5.4	MS
28	Surya (C)	5.7	MS
29	ADV 7022 (C)	6.2	MS
30	BIO 9682 (C)	3.5	MR
31	CM 600 (C)	5.6	MS
32	CMH 08-287 (C)	6.6	MS
33	Early Composite (C)	7.2	S
34	NK 6240 (C)	6.7	MS
35	RCRMH4-1 (C)	7.0	MS
36	VaMH 12014 (C)	6.0	MS
Z1	Location Mean	5.7	
Z2	CV (%)	23.0	
Z3	F (Prob)	0.7	
Z4	CD (5%)	2.7	
Z5	CD (1%)	3.6	

Resistant check:- ADV 7022 (MLB); VaMH 12014 (MLB)

Susceptible check:- Surya (MLB); Early Composite (MLB); CM600 (MLB); RCRMH4-1 (MLB)

Table 28. Screening of AVT I-II (medium maturity) maize hybrids in NEPZ

S.No.	Genotype	MLB(1-9)	
		DHOL	Reaction
1	AH 7067R	5.7	MS
2	AH4271	5.8	MS
3	BH 416032	4.5	MR
4	BH416215	4.9	MR
5	BLH 118	4.2	MR
6	CAH 1511	4.0	MR
7	DKC 8181	3.7	MR
8	DKC 9190	3.6	MR
9	DKC 9194	5.2	MS
10	DKC 9198	3.9	MR
11	HT 18607	4.4	MR
12	IMHBG-17 K-17	5.1	MS
13	IMHBG-17K-15	4.7	MR
14	INDAM 1118	4.8	MR
15	INDAM 1122	6.2	MS
16	JH 16045	5.6	MS
17	JKMH 15303	4.9	MR
18	JKMH1518	5.4	MS
19	KMH 004	4.3	MR
20	KMH 16-29	7.0	MS
21	KNMH 4181	5.0	MR
22	LMH 1016	3.2	MR
23	LMH 3417	5.9	MS
24	MM9309	5.5	MS
25	NMH 4053	6.1	MS
26	OMH 17-47	4.8	MR
27	PM 17102 M	4.4	MR
28	PM 18107 M	4.0	MR
29	RCRMH 2	4.4	MR
30	RCRMH 7	4.3	MR
31	SYN816604	4.7	MR
32	TUFAN	3.3	MR
33	Surya (C)	6.4	MS
34	ADV 7022 (C)	3.3	MR
35	BIO 9544 (C)	5.9	MS
36	CM 600 (C)	7.9	S
37	CMH 08-292 (C)	5.3	MS
38	DHH 121 (C)	3.9	MR
39	Early Composite (C)	7.4	S
40	RCRMH4-1 (C)	6.3	MS
41	VaMH 12014 (C)	5.7	MS
42	ZH 161032	4.1	MR

contd...

Table 28. Screening of AVT I-II (medium maturity) maize hybrids in NEPZ

S.No.	Genotype	MLB(1-9)	
		DHOL	Reaction
Z1	Location Mean	5.0	
Z2	CV (%)	20.1	
Z3	F (Prob)	0.0	
Z4	CD (5%)	2.0	
Z5	CD (1%)	2.8	

Resistant check:- ADV 7022(MLB); VaMH 12014(MLB)
Susceptible check:- Surya(MLB); Early Composite(MLB); CM600(MLB); RCRMH4-1(MLB)

Table 29. Screening of AVT I-II (early maturity) maize hybrids in NEPZ

S.No.	Genotype	MLB(1-9)	
		DHOL	Reaction
1	AH 8181	5.5	MS
2	FH 3861	6.0	MS
3	FH 3879	3.5	MR
4	JH 31947	3.0	R
5	JH 31950	6.0	MS
6	JH 32014	4.0	MR
7	JH 32056	5.5	MS
8	JH 32057	5.5	MS
9	JH 32094	5.5	MS
10	Surya (C)	6.0	MS
11	ADV 7022 (C)	6.0	MS
12	BIO 605 (C)	6.0	MS
13	CM 600 (C)	6.5	MS
14	DKC 7074 (C)	4.5	MR
15	Early Composite (C)	5.5	MS
16	VaMH 12014 (C)	6.0	MS
Z1	Location Mean	5.3	
Z2	CV (%)	26.6	
Z3	F (Prob)	0.5	
Z4	CD (5%)	3.0	
Z5	CD (1%)	4.2	

Resistant check:- ADV 7022(MLB); VaMH 12014(MLB)
Susceptible check:- Surya(MLB); Early Composite(MLB); CM600(MLB)

Table 30. Screening of QPM I II III hybrids in NEPZ

S.No.	Genotype	MLB(1-9)	
		DHOL	Reaction
1	APH 1 (PROA)	5.1	MS
2	APH 2 (PROA)	6.1	MS
3	APH3 (PROA)	6.2	MS
4	APQH 1 (QPM+PROA)	4.8	MR
5	APQH 8 (QPM+PROA)	5.1	MS
6	FQH 148	3.5	MR
7	IIMRQPMH 1705	5.1	MS
8	IIMRQPMH 1708	5.9	MS
9	IQPMH-18-2	5.1	MS
10	IQPMH-18-4	6.6	MS
11	IQPMH-19-1	6.4	MS
12	IQPMH-19-2	5.0	MR
13	IQPMH-19-3	4.8	MR
14	IQPMH-19-4	6.7	MS
15	QPM MH-51	6.6	MS
16	VEHQ 16-1	6.6	MS
17	Surya(C)	5.7	MS
18	ADV7022(C)	6.6	MS
19	APQH 9 (C)	6.9	MS
20	CM 400 (C)	4.7	MR
21	CM 500 (C)	5.6	MS
22	EarlyComposite (C)	5.1	MS
23	HQPM-1 (C)	6.1	MS
24	HQPM-5 (C)	6.2	MS
25	HQPM-7 (C)	6.1	MS
26	PUSA HM8 IMPROVED (C)	4.9	MR
27	Pratap QPM Hybrid (C)	5.6	MS
28	RCRMH4-1(C)	6.1	MS
29	VaMH12014 (C)	5.1	MS
30	Vivek QPM 9 (C)	5.2	MS
Z1	Location Mean	5.7	
Z2	CV (%)	23.1	
Z3	F (Prob)	0.9	
Z4	CD (5%)	2.7	
Z5	CD (1%)	3.6	

Resistant check:- ADV 7022(MLB); VaMH 12014(MLB)
Susceptible check:- Surya(MLB); Early Composite(MLB); RCRMH4-1(MLB)

Table 31. Screening of baby corn I II III hybrids in NEPZ

S.No.	Genotype	MLB(1-9)	
		DHOL	Reaction
1	ABHS4-1	6.5	MS
2	ABHS4-2	5.5	MS
3	AH 5021	6.5	MS
4	AH 7043	4.0	MR
5	AH 7188	6.0	MS
6	AH 7204	7.5	S
7	AHB 7985	4.5	MR
8	BAU BCH 18-1	5.0	MR
9	DBCH 326	5.5	MS
10	IMHSB-19KB-1	6.0	MS
11	IMHSB-19KB-2	4.0	MR
12	LMH 3517	6.0	MS
13	PAC 321	6.5	MS
14	Surya (C)	7.0	MS
15	ADV 7022 (C)	4.5	MR
16	CM 600 (C)	7.0	MS
17	CMVL Baby corn 2 (C)	7.5	S
18	Early Composite (C)	8.0	S
19	HM 4 (C)	6.5	MS
20	RCRMH4-1 (C)	7.0	MS
21	VaMH 12014 (C)	4.0	MR
Z1	Location Mean	6.0	
Z2	CV (%)	15.2	
Z3	F (Prob)	0.0	
Z4	CD (5%)	1.9	
Z5	CD (1%)	2.6	

Resistant check:- ADV 7022(MLB); VaMH 12014(MLB)
Susceptible check:- Surya (MLB); Early Composite (MLB); CM600 (MLB); RCRMH4-1 (MLB)

Table 32. Screening of sweet corn I II III hybrids in NEPZ

S.No.	Genotype	MLB(1-9)	
		DHOL	Reaction
1	BSCH 417006	8.0	S
2	BSCH 417139	8.0	S
3	CP Sweet 2	4.0	MR
4	CPSC 301	6.5	MS
5	ISCH 0913	8.0	S
6	ISCH 1901	7.0	MS
7	NUZI 205	6.0	MS
8	NUZI 260	5.0	MR
9	Super sweet	7.0	MS
10	Sweet Purple	7.5	S
11	Top Sweet	5.5	MS
12	Surya (C)	7.0	MS
13	ADV 7022 (C)	4.0	MR
14	ADVSW-1 (C)	5.5	MS
15	ADVSW-2 (C)	5.5	MS
16	CMVL SC 1 (C)	6.0	MS
17	Early Composite (C)	6.0	MS
18	Misthi (C)	5.5	MS
19	RCRMH4-1 (C)	6.5	MS
20	VaMH 12014 (C)	5.0	MR
Z1	Location Mean	6.2	
Z2	CV (%)	19.4	
Z3	F (Prob)	0.1	
Z4	CD (5%)	2.5	
Z5	CD (1%)	3.4	

Resistant check:- ADV 7022(MLB); VaMH 12014(MLB)
Susceptible check:- Surya(MLB); Early Composite(MLB); RCRMH4-1(MLB)

Table 33. Screening of rainfed (late maturity) maize hybrids in NEPZ

S.No.	Genotype	MLB(1-9)	
		DHOL	Reaction
1	CMH 12 -686	4.0	MR
2	CMH 15-005	5.5	MS
3	Surya (C)	6.0	MS
4	ADV 7022 (C)	5.5	MS
5	Bio 9682 (C)	4.0	MR
6	CHM 08-282 (C)	4.5	MR
7	CMH 08-287 (C)	5.0	MR
8	Early Composite (C)	6.0	MS
9	NK 6240 (C)	4.5	MR
10	RCRMH-4-1 (C)	5.5	MS
Z1	Location Mean	5.1	
Z2	CV (%)	28.0	
Z3	F (Prob)	0.8	
Z4	CD (5%)	3.2	
Z5	CD (1%)	4.6	

Resistant check:- ADV 7022 (MLB)
Susceptible check:- Surya (MLB); Early Composite (MLB); RCRMH4-1 (MLB)

Table 34. Screening of rainfed (medium maturity) maize hybrids in NEPZ

S.No.	Genotype	MLB(1-9)	
		DHOL	Reaction
1	CAH1511	5.5	MS
2	OMH14-27	5.0	MR
3	RCRMH7(ZH138388)	7.0	MS
4	VaMH 15036	5.5	MS
5	Surya (C)	5.5	MS
6	ADV 7022 (C)	6.0	MS
7	Bio 9544 (C)	7.5	S
8	CMH 08 292 (C)	6.5	MS
9	DHM 121 (C)	7.0	MS
10	Early Composite (C)	4.5	MR
11	RCRMH-4-1 (C)	6.5	MS
Z1	Location Mean	6.1	
Z2	CV (%)	23.6	
Z3	F (Prob)	0.6	
Z4	CD (5%)	3.2	
Z5	CD (1%)	4.5	

Resistant check:- ADV 7022 (MLB)
Susceptible check:- Surya (MLB); Early Composite (MLB); RCRMH4-1 (MLB)

Table 35. Screening of rainfed (early maturity) maize hybrids in NEPZ

S.No.	Genotype	MLB(1-9)	
		DHOL	Reaction
1	ADH 1619	5.5	MS
2	ADH 8106	6.0	MS
3	Surya (C)	5.0	MR
4	ADV 7022 (C)	5.5	MS
5	AH 8127 (C)	5.5	MS
6	Bio 605 (C)	3.0	R
7	DKC7074 (C)	5.5	MS
8	Early Composite (C)	7.0	MS
9	RCRMH-4-1 (C)	4.5	MR
10	Vivek Hybrid 45 (C)	4.5	MR
11	Vivek Hybrid 51 (C)	5.5	MS
Z1	Location Mean	5.2	
Z2	CV (%)	42.4	
Z3	F (Prob)	0.9	
Z4	CD (5%)	4.9	
Z5	CD (1%)	7.0	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022(MLB)

Susceptible check:- Surya (MLB); Early Composite (MLB); RCRMH4-1 (MLB)

Table 36. Screening of NIVT (late maturity) maize hybrids in PZ

S.No.	Genotype	TLB(1-9)					BLSB(1-9)		ChR(1-9)				SDM(%)	
		DHAR	MAND	RAHU	Av.score	Reaction	PEDD	Reaction	COIM	HYDE	Av.score	Reaction	MAND	Reaction
1	ADV7713	7.0	5.6	4.2	5.6	MS	7.2	S	4.5	3.2	3.9	MR	62.2	S
2	AH 8072	9.7	8.0	3.7	7.1	S	5.7	MS	4.2	4.2	4.2	MR	90.8	S
3	AH 8753	8.0	7.4	3.7	6.4	MS	8.0	S	9.2	3.8	6.5	MS	99.3	S
4	AH1645	4.3	6.2	2.8	4.4	MR	6.5	MS	5.4	3.7	4.5	MR	38.0	MS
5	AH4139	8.9	5.7	2.9	5.8	MS	7.7	S	7.1	3.7	5.4	MS	75.3	S
6	AH4272	3.2	4.8	2.3	3.4	MR	5.7	MS	6.2	2.6	4.4	MR	76.8	S
7	AH5158	6.4	5.8	3.7	5.3	MS	7.3	S	4.4	4.1	4.2	MR	100.0	S
8	BH 417202	2.4	5.2	3.3	3.7	MR	6.4	MS	6.0	3.2	4.6	MR	98.3	S
9	BRMH-17068	6.5	5.4	2.7	4.9	MR	4.9	MR	3.8	2.7	3.2	MR	63.6	S
10	CMH 08-292 (Filler)	7.0	4.0	2.7	4.6	MR	6.5	MS	5.4	3.1	4.2	MR	100.0	S
11	CMH-15-006	3.6	6.8	5.3	5.3	MS	6.2	MS	4.8	2.7	3.8	MR	100.0	S
12	CMH-15-008	5.1	6.3	4.8	5.4	MS	5.8	MS	6.8	2.3	4.5	MR	96.9	S
13	CP 555	3.8	5.4	2.9	4.1	MR	7.5	S	4.5	1.9	3.2	MR	91.8	S
14	CP 802	7.0	5.2	3.1	5.1	MS	6.4	MS	4.3	3.1	3.7	MR	98.3	S
15	DKC 9207	4.0	5.7	3.2	4.3	MR	6.5	MS	4.9	4.2	4.5	MR	100.0	S
16	GH16352	7.4	7.3	2.6	5.7	MS	6.6	MS	7.2	3.1	5.1	MS	94.5	S
17	GK 3218	4.8	4.7	2.8	4.1	MR	6.2	MS	4.6	4.0	4.3	MR	99.2	S
18	HMM 1018	6.6	7.4	5.3	6.4	MS	6.0	MS	6.2	6.3	6.3	MS	100.0	S
19	HT 519074	5.2	6.2	3.7	5.0	MR	7.1	S	5.4	3.5	4.4	MR	82.1	S
20	IM12723	5.7	6.2	3.4	5.1	MS	7.4	S	3.5	4.1	3.8	MR	76.0	S
21	IMHSB-19K-12	7.7	4.6	3.3	5.2	MS	7.7	S	7.9	5.6	6.8	MS	98.7	S
22	IMHSB-19K-13	6.3	4.9	2.9	4.7	MR	4.9	MR	7.2	5.3	6.3	MS	91.6	S
23	IMHSB-19K-14	3.0	5.8	2.7	3.8	MR	6.6	MS	4.5	3.6	4.0	MR	95.8	S
24	IMHVS-102	1.9	6.7	2.6	3.7	MR	8.0	S	5.2	3.4	4.3	MR	44.6	MS
25	JH 17011	3.9	5.8	3.5	4.4	MR	5.5	MS	5.2	4.8	5.0	MR	83.6	S
26	JH 18056	2.0	6.4	2.4	3.6	MR	5.3	MS	4.2	3.8	4.0	MR	96.4	S
27	JH 18057	2.7	5.8	3.2	3.9	MR	6.9	MS	4.4	3.7	4.0	MR	89.0	S
28	JH 18087	5.2	6.6	2.8	4.9	MR	6.4	MS	4.6	2.8	3.7	MR	100.0	S
29	JH 18088	4.6	5.6	3.3	4.5	MR	6.1	MS	5.2	3.0	4.1	MR	89.3	S
30	JH 18091	7.9	7.2	4.0	6.4	MS	7.3	S	4.4	4.2	4.3	MR	100.0	S
31	KH 2193	7.4	5.5	2.6	5.2	MS	6.9	MS	4.3	3.5	3.9	MR	100.0	S
32	KH 5146	7.7	6.7	2.6	5.6	MS	6.3	MS	5.3	3.2	4.2	MR	100.0	S
33	KMH-8322	5.8	5.4	2.7	4.6	MR	8.3	S	5.3	3.7	4.5	MR	61.8	S

contd…

Table 36. Screening of NIVT (late maturity) maize hybrids in PZ

S.No.	Genotype	TLB(1-9)					BLSB(1-9)		ChR(1-9)				SDM(%)	
		DHAR	MAND	RAHU	Av.score	Reaction	PEDD	Reaction	COIM	HYDE	Av.score	Reaction	MAND	Reaction
34	KMH-8333	4.7	6.1	1.7	4.2	MR	6.7	MS	5.9	2.7	4.3	MR	55.7	S
35	MM2424	5.9	5.6	2.7	4.7	MR	6.1	MS	4.4	5.4	4.9	MR	41.6	MS
36	NMH 4313	4.3	7.1	3.0	4.8	MR	6.6	MS	4.4	2.9	3.7	MR	98.2	S
37	PM 19104L	4.3	4.6	2.6	3.8	MR	6.6	MS	3.3	4.8	4.0	MR	75.9	S
38	PM 19105 L	4.1	5.8	2.9	4.3	MR	6.6	MS	3.8	3.1	3.5	MR	86.5	S
39	PM 19106 L	5.7	4.9	3.3	4.6	MR	7.0	MS	4.7	5.3	5.0	MR	91.7	S
40	PM 19107 L	3.7	6.2	2.8	4.3	MR	6.5	MS	5.2	3.0	4.1	MR	100.0	S
41	PM 19108 L	4.1	5.4	3.8	4.4	MR	6.4	MS	4.6	2.7	3.6	MR	100.0	S
42	PM 19109 L	3.1	6.2	2.8	4.0	MR	5.8	MS	6.3	2.8	4.6	MR	83.1	S
43	PM 19110 L	5.6	5.3	2.3	4.4	MR	6.4	MS	7.2	2.3	4.8	MR	100.0	S
44	PM 19111 L	4.2	5.4	2.5	4.0	MR	4.1	MR	5.6	4.0	4.8	MR	77.3	S
45	QMH-1604	6.9	7.6	3.6	6.0	MS	7.0	MS	5.0	2.5	3.8	MR	93.2	S
46	QMH-16101	4.4	4.6	4.5	4.5	MR	6.6	MS	5.3	4.9	5.1	MS	100.0	S
47	QMH-1617	5.4	6.5	3.9	5.3	MS	6.5	MS	5.7	4.4	5.0	MR	96.4	S
48	QMH-1697	8.5	5.9	6.4	6.9	MS	7.0	MS	5.1	5.1	5.1	MS	100.0	S
49	Rasi 6597	5.9	5.2	3.0	4.7	MR	6.7	MS	4.7	3.7	4.2	MR	88.0	S
50	Rasi 70574	5.8	5.0	6.0	5.6	MS	5.7	MS	7.7	4.2	5.9	MS	92.3	S
51	SBMH 1817	4.4	4.6	3.1	4.0	MR	5.6	MS	5.3	4.1	4.7	MR	87.3	S
52	SVMH 1627	6.7	5.1	3.1	5.0	MR	7.1	S	5.3	3.1	4.2	MR	72.5	S
53	TMMH 853	6.6	5.9	3.3	5.3	MS	5.9	MS	4.7	6.2	5.4	MS	72.3	S
54	VNR37650	4.1	4.2	3.5	3.9	MR	5.8	MS	3.5	4.1	3.8	MR	93.2	S
55	VNR4343	6.9	6.4	3.2	5.5	MS	7.2	S	4.6	3.9	4.2	MR	96.0	S
56	SYN916801	3.1	4.9	2.5	3.5	MR	6.3	MS	4.9	2.5	3.7	MR	61.9	S
57	Surya (C)	6.6	5.2	3.6	5.1	MS	7.5	S	3.8	2.4	3.1	MR	65.6	S
58	ADV 7022 (C)	7.6	7.0	3.2	5.9	MS	6.6	MS	4.0	3.4	3.7	MR	23.1	MR
59	BIO 9682 (C)	3.6	5.2	2.7	3.8	MR	5.9	MS	5.3	3.9	4.6	MR	100.0	S
60	CM 600 (C)	9.2	9.1	6.0	8.1	S	7.4	S	5.5	7.8	6.7	MS	88.4	S
61	CMH 08-282 (C)	3.5	5.9	3.7	4.3	MR	6.6	MS	4.1	3.5	3.8	MR	22.8	MR
62	CMH 08-287 (C)	3.4	6.5	3.3	4.4	MR	6.5	MS	5.9	2.4	4.2	MR	100.0	S
63	Early Composite (C)	8.5	9.7	5.2	7.8	S	7.4	S	5.1	7.0	6.1	MS	100.0	S
64	NK6240 (C)	3.4	4.9	2.9	3.7	MR	6.6	MS	5.5	2.4	3.9	MR	74.2	S
65	RCRMH4-1 (C)	6.0	5.3	3.8	5.0	MR	6.8	MS	4.7	3.8	4.3	MR	90.7	S
66	VaMH 12014 (C)	4.0	5.3	3.0	4.1	MR	6.8	MS	5.2	2.7	3.9	MR	93.7	S

contd…

Table 36. Screening of NIVT (late maturity) maize hybrids in PZ

S.No.	Genotype	TLB(1-9)					BLSB(1-9)		ChR(1-9)				SDM(%)	
		DHAR	MAND	RAHU	Av.score	Reaction	PEDD	Reaction	COIM	HYDE	Av.score	Reaction	MAND	Reaction
Z1	Location Mean	5.4	5.9	3.4			6.6		5.2	3.8			87.3	
Z2	CV (%)	21.3	11.5	20.1			13.4		17.1	27.1			24.6	
Z3	F (Prob)	0.0	0.0	0.0			0.3		0.0	0.0			0.3	
Z4	CD (5%)	2.3	1.4	1.4			1.8		1.8	2.1			43.5	
Z5	CD (1%)	3.1	1.8	1.8			2.4		2.4	2.7			58.4	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022, VaMH 12014 (MLB); ADV 7022, VaMH 12014 (BLSB); ADV 7022, VaMH 12014 (ChR); ADV 7022 (SDM)

Susceptible check:- Surya (TLB); Early Composite, CM600, RCRMH4-1 (BLSB); Surya (ChR); Surya, RCRMH4-1 (SDM)

Table 37. Screening of NIVT (medium maturity) maize hybrids in PZ

S.No.	Genotype	TLB(1-9)					BLSB(1-9)		ChR(1-9)				SDM(%)	
		DHAR	MAND	RAHU	Av.score	Reaction	PEDD	Reaction	COIM	HYDE	Av.score	Reaction	MAND	Reaction
1	AH 8245 R	4.2	3.9	2.4	3.5	MR	5.4	MS	5.1	4.0	4.5	MR	100.0	S
2	AH 8452	2.8	3.8	3.2	3.2	MR	6.2	MS	4.5	6.4	5.5	MS	73.9	S
3	AH1625	4.6	4.4	2.8	3.9	MR	6.3	MS	5.3	2.8	4.1	MR	0.0	R
4	AH1634	2.0	3.2	3.2	2.8	R	6.1	MS	5.9	3.3	4.6	MR	68.8	S
5	AH4142	8.4	5.1	3.4	5.6	MS	6.4	MS	4.6	3.8	4.2	MR	38.4	MS
6	AH4167	6.9	4.6	3.6	5.0	MR	6.0	MS	7.7	3.0	5.3	MS	96.0	S
7	BAU-MH-18-2	6.9	3.3	2.6	4.2	MR	7.3	S	4.4	4.5	4.4	MR	96.3	S
8	BAU-MH-18-3	8.3	4.8	3.8	5.6	MS	6.7	MS	5.2	3.2	4.2	MR	90.5	S
9	BH 417152	6.7	3.8	3.1	4.5	MR	5.5	MS	5.2	3.8	4.5	MR	100.0	S
10	BH 417182	3.0	3.4	3.1	3.2	MR	5.1	MS	6.0	3.3	4.6	MR	87.3	S
11	BH 417193	6.9	3.4	3.6	4.6	MR	6.4	MS	5.1	4.9	5.0	MR	99.2	S
12	CMH-12-686	3.9	3.5	3.9	3.7	MR	6.3	MS	5.9	3.7	4.8	MR	85.3	S
13	CMH-15-012	6.1	3.4	2.8	4.1	MR	5.8	MS	4.6	4.4	4.5	MR	99.9	S
14	DH 327	5.5	3.5	3.1	4.0	MR	6.3	MS	5.2	3.2	4.2	MR	100.0	S
15	DH 328	4.5	5.4	4.2	4.7	MR	5.2	MS	5.3	5.6	5.5	MS	100.0	S
16	EH 3638	3.8	3.4	3.6	3.6	MR	5.7	MS	5.0	4.0	4.5	MR	69.2	S
17	HMM 1014	9.0	5.7	5.1	6.6	MS	7.0	MS	5.4	5.3	5.4	MS	100.0	S
18	HMM 1019	7.7	6.1	4.7	6.2	MS	7.0	MS	5.9	5.4	5.6	MS	88.9	S
19	IMHL-K-19-1	9.2	5.9	3.9	6.3	MS	6.4	MS	5.4	5.3	5.3	MS	100.0	S
20	IWH 1407	8.8	7.8	7.5	8.0	S	7.0	MS	8.4	6.5	7.5	S	98.5	S
21	IYH 1603	8.8	5.3	4.6	6.2	MS	7.0	MS	6.1	3.0	4.5	MR	100.0	S
22	JH 18064	4.6	5.0	2.9	4.2	MR	5.9	MS	4.6	4.0	4.3	MR	100.0	S
23	JH 18065	5.4	3.6	4.9	4.6	MR	6.3	MS	4.1	3.3	3.7	MR	91.9	S
24	JH 18099	5.6	3.8	4.2	4.5	MR	6.3	MS	5.3	4.8	5.0	MR	100.0	S
25	JH 32104	2.1	5.5	5.1	4.2	MR	6.5	MS	4.0	3.4	3.7	MR	99.2	S
26	KMH 18-42	8.4	7.9	4.9	7.1	S	7.9	S	5.1	4.6	4.9	MR	100.0	S
27	KMH 18-71	10.1	7.2	4.9	7.4	S	6.6	MS	5.5	4.1	4.8	MR	99.8	S
28	KNMH 4191	6.3	3.7	3.2	4.4	MR	6.1	MS	6.8	3.2	5.0	MR	94.3	S
29	KNMH 4192	3.7	3.6	3.8	3.7	MR	6.4	MS	3.7	3.1	3.4	MR	88.5	S
30	KNMH 4194	6.3	3.4	2.9	4.2	MR	4.2	MR	5.6	3.7	4.6	MR	100.0	S
31	LMH 4119	4.5	4.7	3.2	4.1	MR	6.7	MS	5.8	3.3	4.5	MR	97.9	S
32	LMH 4219	3.0	3.8	3.3	3.3	MR	7.1	S	5.7	4.2	4.9	MR	87.0	S
33	LMH 4319	3.4	3.1	3.2	3.3	MR	6.4	MS	3.3	3.9	3.6	MR	85.4	S

contd…

Table 37. Screening of NIVT (medium maturity) maize hybrids in PZ

S.No.	Genotype	TLB(1-9)					BLSB(1-9)		ChR(1-9)				SDM(%)	
		DHAR	MAND	RAHU	Av.score	Reaction	PEDD	Reaction	COIM	HYDE	Av.score	Reaction	MAND	Reaction
34	LMH 4419	2.6	5.3	2.2	3.4	MR	5.9	MS	3.9	3.2	3.6	MR	100.0	S
35	OMH17-19	3.3	2.9	3.6	3.3	MR	5.6	MS	5.3	3.0	4.2	MR	100.0	S
36	OMH17-24	7.8	3.9	3.9	5.2	MS	6.1	MS	4.6	6.8	5.7	MS	100.0	S
37	RCRMH 13	7.7	4.5	3.0	5.1	MS	6.7	MS	4.8	3.1	4.0	MR	94.1	S
38	VaMH 16008	4.4	4.3	3.2	3.9	MR	5.8	MS	7.6	4.1	5.8	MS	96.3	S
39	RCRMH 14	5.2	3.9	3.3	4.1	MR	6.3	MS	6.0	6.1	6.1	MS	88.9	S
40	Surya (C)	5.9	4.1	2.6	4.2	MR	6.4	MS	5.8	4.8	5.3	MS	100.0	S
41	ADV 7022 (C)	7.1	4.4	3.1	4.9	MR	5.8	MS	4.6	3.3	4.0	MR	0.0	R
42	BIO 9544 (C)	5.7	4.3	4.1	4.7	MR	6.0	MS	5.2	3.4	4.3	MR	23.8	MR
43	CM 600 (C)	8.9	7.6	7.6	8.0	S	6.0	MS	6.1	6.0	6.0	MS	96.0	S
44	CMH 08-292(C)	4.4	4.4	3.9	4.3	MR	6.4	MS	4.1	3.1	3.6	MR	96.4	S
45	DHM 121 (C)	5.5	2.9	2.9	3.8	MR	6.1	MS	3.9	3.5	3.7	MR	87.3	S
46	Early Composite (C)	8.8	7.4	5.2	7.1	S	8.1	S	6.1	7.6	6.9	MS	100.0	S
47	RCRMH4-1 (C)	7.8	3.9	3.9	5.2	MS	6.6	MS	4.1	3.9	4.0	MR	100.0	S
48	VaMH 12014 (C)	5.5	3.2	4.4	4.4	MR	6.6	MS	4.2	3.9	4.0	MR	83.8	S
Z1	Location Mean	5.9	4.5	3.8			6.3		5.3	4.2			88.6	
Z2	CV (%)	18.8	21.7	20.4			12.6		19.5	23.9			14.2	
Z3	F (Prob)	0.0	0.0	0.0			0.2		0.0	0.0			0.0	
Z4	CD (5%)	2.2	2.0	1.6			1.6		2.1	2.0			25.5	
Z5	CD (1%)	3.0	2.6	2.1			2.2		2.8	2.7			34.3	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022, VaMH 12014, BIO 9544 (MLB); ADV 7022, VaMH 12014 (BLSB); ADV 7022, VaMH 12014, BIO 9544 (ChR); ADV 7022, BIO 9544 (SDM)

Susceptible check:- Surya (TLB); Early Composite, CM600, RCRMH4-1 (BLSB); Surya (ChR); Surya, RCRMH4-1 (SDM)

Table 38. Screening of NIVT A (medium maturity) maize hybrids in PZ

S.No	Genotype	TLB(1-9)					BLSB(1-9)		ChR(1-9)				SDM(%)	
		DHAR	MAND	RAHU	Av.score	Reaction	PEDD	Reaction	COIM	HYDE	Av.score	Reaction	MAND	Reaction
1	ADV 7745	2.9	4.5	2.5	3.3	MR	6.4	MS	4.0	5.0	4.5	MR	69.6	S
2	DKC 8205	6.3	4.9	3.9	5.0	MR	6.3	MS	5.8	3.8	4.8	MR	96.7	S
3	DKC 8209	2.7	5.6	3.9	4.1	MR	6.3	MS	5.1	2.6	3.8	MR	86.0	S
4	GGMH-114	6.0	2.3	4.4	4.2	MR	6.3	MS	4.8	3.5	4.2	MR	95.5	S
5	GK 3207	8.3	7.7	2.6	6.2	MS	6.6	MS	5.6	4.1	4.8	MR	100.0	S
6	HKH-371	6.3	5.0	2.9	4.7	MR	6.4	MS	5.3	3.5	4.4	MR	99.4	S
7	HKH-372	5.9	4.7	3.4	4.7	MR	6.0	MS	5.1	4.9	5.0	MR	98.2	S
8	HM 19203	7.6	6.3	3.8	5.9	MS	6.8	MS	4.9	4.1	4.5	MR	39.5	MS
9	HM 19305	3.1	2.6	3.0	2.9	R	6.4	MS	5.4	2.3	3.8	MR	95.8	S
10	HT 519015	2.4	7.1	2.6	4.0	MR	6.4	MS	4.7	3.6	4.2	MR	80.5	S
11	IAHM 2016-38	4.6	4.3	2.5	3.8	MR	6.6	MS	4.9	4.8	4.9	MR	100.0	S
12	IAHM2016-2	6.2	3.4	2.4	4.0	MR	5.7	MS	4.1	4.6	4.3	MR	75.9	S
13	IIMWH 1901	1.9	2.6	7.0	3.8	MR	6.1	MS	6.3	3.8	5.0	MR	95.0	S
14	IMHSB-19K-10	6.9	3.2	3.1	4.4	MR	6.9	MS	5.6	3.2	4.4	MR	74.2	S
15	IMHSB-19K-11	6.5	4.7	3.1	4.8	MR	6.6	MS	5.7	3.2	4.5	MR	100.0	S
16	IMHSB-19K-2	4.6	2.5	2.1	3.1	MR	6.4	MS	5.0	2.9	4.0	MR	98.1	S
17	IMHSB-19K-3	8.1	6.2	4.0	6.1	MS	5.5	MS	4.6	7.2	5.9	MS	100.0	S
18	IMHSB-19K-4	6.1	4.4	2.9	4.4	MR	7.1	S	4.5	3.3	3.9	MR	100.0	S
19	IMHSB-19K-5	6.9	5.9	4.4	5.7	MS	6.1	MS	4.9	3.8	4.3	MR	99.6	S
20	IMHSB-19K-6	4.8	4.3	3.1	4.0	MR	6.6	MS	5.0	4.1	4.5	MR	100.0	S
21	IMHSB-19K-7	6.2	4.5	1.8	4.2	MR	6.4	MS	5.2	3.6	4.4	MR	90.4	S
22	IMHSB-19K-8	5.8	5.2	3.8	4.9	MR	7.0	MS	4.5	4.3	4.4	MR	100.0	S
23	IMHSB-19K-9	5.8	4.3	3.9	4.6	MR	6.3	MS	4.4	4.7	4.5	MR	94.1	S
24	IMHVS-101	3.1	3.6	2.6	3.1	MR	6.8	MS	5.7	3.6	4.7	MR	78.1	S
25	JKMH 1481	3.5	3.2	3.4	3.4	MR	6.2	MS	4.7	3.9	4.3	MR	65.4	S
26	KH 518	3.9	4.4	2.5	3.6	MR	5.7	MS	4.3	3.8	4.0	MR	89.6	S
27	KSP-5391	6.8	8.0	3.0	5.9	MS	6.2	MS	7.4	3.9	5.7	MS	100.0	S
28	MH 1941	5.9	3.4	3.6	4.3	MR	6.3	MS	5.0	7.7	6.3	MS	100.0	S
29	MH 1945	8.0	5.8	3.7	5.8	MS	6.4	MS	4.1	3.2	3.6	MR	95.4	S
30	MH 1948	6.0	6.8	3.7	5.5	MS	6.6	MS	6.0	3.1	4.5	MR	72.7	S
31	NMH 4144	5.8	5.2	2.9	4.6	MR	6.4	MS	5.7	3.4	4.6	MR	100.0	S
32	PM 19101 M	4.0	5.5	2.5	4.0	MR	7.9	S	5.0	3.1	4.1	MR	100.0	S
33	PM 19102 M	6.0	6.0	3.9	5.3	MS	6.3	MS	4.6	2.5	3.6	MR	91.0	S

contd…

Table 38. Screening of NIVT A (medium maturity) maize hybrids in PZ

S.No	Genotype	TLB(1-9)					BLSB(1-9)		ChR(1-9)				SDM(%)	
		DHAR	MAND	RAHU	Av.score	Reaction	PEDD	Reaction	COIM	HYDE	Av.score	Reaction	MAND	Reaction
34	PM 19103 M	4.1	4.7	2.9	3.9	MR	6.5	MS	4.5	3.6	4.0	MR	100.0	S
35	SVMH-1130	6.2	4.9	2.4	4.5	MR	5.6	MS	5.6	3.0	4.3	MR	98.2	S
36	SYN-916248	4.9	5.1	2.3	4.1	MR	5.9	MS	5.2	2.8	4.0	MR	82.1	S
37	SYN916540	4.0	3.3	3.7	3.6	MR	7.3	S	4.1	3.3	3.7	MR	49.6	MS
38	TS 2609	5.5	2.9	2.0	3.5	MR	6.1	MS	4.5	3.1	3.8	MR	83.9	S
39	SYN916701	2.8	2.4	3.3	2.8	R	6.7	MS	4.7	3.7	4.2	MR	81.0	S
40	Surya (C)	7.1	4.7	2.4	4.7	MR	6.0	MS	4.3	6.2	5.2	MS	100.0	S
41	ADV 7022 (C)	5.5	6.5	2.4	4.8	MR	6.9	MS	4.6	3.5	4.0	MR	55.1	S
42	BIO 9544 (C)	4.5	3.7	3.0	3.7	MR	7.2	S	4.8	3.2	4.0	MR	43.3	MS
43	CM 600 (C)	8.6	7.8	6.7	7.7	S	7.3	S	8.8	8.0	8.4	S	92.3	S
44	CMH 08-292 (C)	3.4	3.5	3.2	3.4	MR	5.4	MS	5.1	3.4	4.2	MR	33.2	MS
45	DHM 121 (C)	6.0	2.9	2.4	3.8	MR	6.6	MS	4.9	3.6	4.3	MR	63.1	S
46	Early Composite (C)	9.1	7.1	6.3	7.5	S	7.9	S	6.6	6.6	6.6	MS	100.0	S
47	RCRMH4-1 (C)	4.7	3.9	3.2	4.0	MR	7.1	S	3.9	4.5	4.2	MR	98.2	S
48	VaMH 12014 (C)	3.0	3.5	3.0	3.2	MR	6.8	MS	5.0	2.4	3.7	MR	98.2	S
Z1	Location Mean	5.4	4.7	3.3			6.5		5.1	4.0			87.4	
Z2	CV (%)	15.2	21.2	28.9			10.8		18.3	22.0			20.3	
Z3	F (Prob)	0.0	0.0	0.0			0.5		0.1	0.0			0.0	
Z4	CD (5%)	1.7	2.0	1.9			1.4		1.9	1.8			35.9	
Z5	CD (1%)	2.2	2.7	2.6			1.9		2.5	2.4			48.2	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022, VaMH 12014, BIO 9544 (MLB); ADV 7022, VaMH 12014 (BLSB); ADV 7022, VaMH 12014, BIO 9544 (ChR); ADV 7022, BIO 9544 (SDM)

Susceptible check:- Surya (TLB); Early Composite, CM600, RCRMH4-1 (BLSB); Surya (ChR); Surya, RCRMH4-1 (SDM)

Table 39. Screening of NIVT (early maturity) maize hybrids in PZ

S.No.	Genotype	TLB(1-9)					BLSB(1-9)		ChR(1-9)				SDM(%)	
		DHAR	MAND	RAHU	Av.score	Reaction	PEDD	Reaction	COIM	HYDE	Av.score	Reaction	MAND	Reaction
1	AH 8178	4.9	3.2	2.7	3.6	MR	5.4	MS	6.2	3.7	4.9	MR	100.00	S
2	AH 8323	3.4	4.0	2.5	3.3	MR	7.4	S	3.4	3.8	3.6	MR	68.0	S
3	AH 8622	3.8	4.3	3.4	3.8	MR	6.9	MS	7.2	4.3	5.7	MS	98.3	S
4	AH1608	2.9	5.5	3.1	3.8	MR	6.9	MS	5.0	4.8	4.9	MR	67.8	S
5	AH3254	8.2	6.9	4.3	6.5	MS	6.6	MS	9.3	5.5	7.4	S	96.5	S
6	BAU-MH-18-1	9.4	3.8	2.8	5.3	MS	6.4	MS	4.8	5.3	5.1	MS	99.2	S
7	BYMH-13-5	8.9	5.5	3.7	6.1	MS	7.4	S	5.9	7.2	6.5	MS	99.0	S
8	DH 321	8.2	5.4	3.3	5.6	MS	6.6	MS	6.9	6.1	6.5	MS	100.0	S
9	DH 329	7.4	5.4	3.2	5.3	MS	6.2	MS	5.9	6.9	6.4	MS	88.1	S
10	DH 330	9.1	6.4	3.9	6.5	MS	6.9	MS	6.1	5.9	6.0	MS	99.5	S
11	DKC 7204	7.5	4.1	3.3	5.0	MR	4.9	MR	6.2	4.2	5.2	MS	99.7	S
12	EH 3524	4.4	3.7	2.4	3.5	MR	6.9	MS	5.5	4.8	5.2	MS	100.0	S
13	EH 3571	6.4	5.0	2.8	4.7	MR	6.9	MS	6.9	5.9	6.4	MS	98.8	S
14	FH 3912	1.8	3.8	3.9	3.1	MR	6.9	MS	7.8	4.5	6.1	MS	98.3	S
15	HKH 370	8.6	5.1	3.2	5.6	MS	6.2	MS	5.8	3.4	4.6	MR	85.2	S
16	IMHSB-19K-1	7.4	4.9	3.8	5.4	MS	5.7	MS	7.7	3.7	5.7	MS	96.4	S
17	JH 32006	9.1	6.8	4.1	6.6	MS	5.2	MS	6.9	3.9	5.4	MS	97.9	S
18	JH 32328	8.6	4.4	2.6	5.2	MS	4.4	MR	4.5	4.4	4.4	MR	99.5	S
19	JH 32375	6.4	3.8	2.6	4.2	MR	5.9	MS	5.1	3.7	4.4	MR	99.2	S
20	JH 32385	8.2	4.9	3.6	5.6	MS	6.6	MS	7.0	5.2	6.1	MS	100.0	S
21	JH 32391	7.4	5.4	3.5	5.4	MS	6.2	MS	6.5	3.7	5.1	MS	96.4	S
22	KH 102E	7.2	5.0	2.6	4.9	MR	7.0	MS	8.6	5.3	6.9	MS	75.1	S
23	KMH 18-13	8.7	4.9	3.9	5.8	MS	6.3	MS	5.4	5.6	5.5	MS	97.7	S
24	KMH 18-15	8.9	7.0	3.8	6.6	MS	5.4	MS	7.2	2.5	4.9	MR	100.0	S
25	KNMH 4193	5.4	3.8	3.4	4.2	MR	7.4	S	5.0	4.1	4.6	MR	99.2	S
26	VEH18-1	5.1	4.4	4.2	4.6	MR	6.4	MS	6.1	4.6	5.4	MS	99.5	S
27	LMH 1946	6.3	4.4	2.5	4.4	MR	7.0	MS	5.4	7.2	6.3	MS	100.0	S
28	Rasi 50252	2.7	4.8	3.1	3.5	MR	6.4	MS	7.1	3.7	5.4	MS	100.0	S
29	Surya (C)	6.0	4.1	2.8	4.3	MR	6.9	MS	5.6	4.6	5.1	MS	99.7	S
30	ADV 7022 (C)	7.2	4.8	2.3	4.8	MR	6.4	MS	4.6	2.5	3.5	MR	13.7	MR
31	Bio 605 (C)	3.5	4.6	3.4	3.8	MR	6.9	MS	6.9	3.2	5.0	MR	85.4	S
32	CM 600 (C)	8.7	9.0	6.9	8.2	S	6.5	MS	7.5	5.6	6.5	MS	100.0	S
33	DKC7074 (C)	4.2	4.0	2.5	3.6	MR	6.5	MS	5.3	6.4	5.8	MS	0.1	R

contd…

Table 39. Screening of NIVT (early maturity) maize hybrids in PZ

S.No.	Genotype	TLB(1-9)					BLSB(1-9)		ChR(1-9)				SDM(%)	
		DHAR	MAND	RAHU	Av.score	Reaction	PEDD	Reaction	COIM	HYDE	Av.score	Reaction	MAND	Reaction
34	Early Composite (C)	8.7	8.8	4.1	7.2	S	6.4	MS	8.4	5.9	7.1	S	100.0	S
35	RCRMH4-1 (C)	7.1	5.1	3.4	5.2	MS	5.2	MS	4.8	4.2	4.5	MR	97.7	S
36	VaMH 12014 (C)	5.6	4.1	2.9	4.2	MR	3.7	MR	4.3	2.9	3.6	MR	90.5	S
Z1	Location Mean	6.6	5.0	3.3			6.3		6.2	4.7			90.7	
Z2	CV (%)	15.3	10.9	18.1			12.8		15.8	19.1			9.7	
Z3	F (Prob)	0.0	0.0	0.0			0.1		0.0	0.0			0.0	
Z4	CD (5%)	2.1	1.1	1.2			1.7		2.0	1.9			18.1	
Z5	CD (1%)	2.8	1.5	1.7			2.2		2.7	2.5			24.5	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022, VaMH 12014 (MLB); ADV 7022, VaMH 12014 (BLSB); ADV 7022, VaMH 12014 (ChR); ADV 7022 (SDM)

Susceptible check:- Surya (TLB); Early Composite, CM600, RCRMH4-1 (BLSB); Surya (ChR); Surya, RCRMH4-1 (SDM)

Table 40. Screening of AVT I-II (late maturity) maize hybrids in PZ

S.No.	Genotype	TLB(1-9)					BLSB(1-9)		ChR(1-9)				SDM(%)	
		DHAR	MAND	RAHU	Av.score	Reaction	PEDD	Reaction	COIM	HYDE	Av.score	Reaction	MAND	Reaction
1	ADV 1390064	8.3	4.4	2.7	5.1	MS	4.1	MR	4.8	3.2	4.0	MR	18.9	MR
2	ADV 1390164	7.3	4.9	3.3	5.2	MS	3.9	MR	4.9	4.0	4.4	MR	3.5	R
3	ADV 7132	7.8	4.2	2.5	4.8	MR	4.9	MR	3.9	2.5	3.2	MR	0.0	R
4	B57	8.3	4.6	2.5	5.1	MS	4.0	MR	4.5	3.7	4.1	MR	95.4	S
5	BLH 137	4.3	4.6	2.0	3.6	MR	5.0	MR	4.8	3.4	4.1	MR	20.4	MR
6	Bio 218	7.9	3.7	2.4	4.7	MR	4.2	MR	4.4	4.2	4.3	MR	19.4	MR
7	Bio 534	6.3	3.7	2.1	4.0	MR	4.9	MR	4.1	3.3	3.7	MR	90.3	S
8	CP 858	4.6	4.8	2.9	4.1	MR	6.4	MS	4.0	3.9	3.9	MR	98.7	S
9	HT 17169	6.9	4.7	2.4	4.7	MR	5.1	MS	4.4	3.2	3.8	MR	95.6	S
10	JH 16041	8.1	4.2	3.0	5.1	MS	7.0	MS	4.2	3.7	3.9	MR	100.0	S
11	JH 16081	3.4	4.2	2.8	3.4	MR	4.7	MR	4.1	3.7	3.9	MR	19.4	MR
12	JH 16224	5.9	6.4	3.0	5.1	MS	5.0	MR	4.9	4.7	4.8	MR	100.0	S
13	JH 17026	6.1	3.6	2.7	4.1	MR	4.1	MR	4.2	3.6	3.9	MR	99.4	S
14	JKMH 150375	8.8	4.4	3.1	5.4	MS	3.9	MR	4.1	6.5	5.3	MS	83.5	S
15	KMH 005	6.8	3.9	3.0	4.5	MR	6.6	MS	4.1	3.5	3.8	MR	95.5	S
16	KMH 463	8.8	4.7	2.3	5.2	MS	4.4	MR	4.8	3.2	4.0	MR	75.3	S
17	PM 18101 L	4.6	3.7	2.5	3.6	MR	5.0	MR	4.4	3.3	3.8	MR	44.0	MS
18	PM 18104 L	3.9	4.7	2.8	3.8	MR	5.2	MS	4.4	2.5	3.5	MR	100.0	S
19	PM 18105 L	3.9	4.2	2.9	3.7	MR	4.6	MR	4.9	3.9	4.4	MR	100.0	S
20	PM 18106 L	6.5	3.3	2.4	4.1	MR	4.4	MR	4.3	3.2	3.7	MR	81.0	S
21	RCM 1-61	8.2	4.6	2.3	5.0	MR	5.2	MS	5.1	6.3	5.7	MS	99.5	S
22	RCM 1-76	8.1	4.3	3.0	5.1	MS	4.4	MR	3.9	4.5	4.2	MR	100.0	S
23	Rasi 3499	7.6	3.7	2.3	4.5	MR	5.0	MR	4.7	4.2	4.4	MR	100.0	S
24	Rasi 4992	5.8	4.4	2.5	4.2	MR	4.9	MR	3.6	4.6	4.1	MR	95.1	S
25	SUPER 1818	7.0	3.8	2.2	4.3	MR	4.9	MR	4.0	2.7	3.3	MR	52.9	S
26	TS 2505	6.0	4.2	2.6	4.3	MR	4.5	MR	4.1	4.2	4.2	MR	61.4	S
27	SYN816514	5.0	4.8	2.5	4.1	MR	5.0	MR	4.8	5.7	5.3	MS	1.0	R
28	Surya (C)	7.6	4.3	2.1	4.6	MR	3.4	MR	5.1	2.9	4.0	MR	90.3	S
29	ADV 7022 (C)	7.7	4.6	2.3	4.8	MR	4.7	MR	4.5	3.7	4.1	MR	12.0	MR
30	BIO 9682 (C)	5.2	4.4	3.0	4.2	MR	4.0	MR	3.9	3.7	3.8	MR	18.0	MR
31	CM 600 (C)	9.1	4.3	5.8	6.4	MS	6.4	MS	5.1	5.9	5.5	MS	100.0	S
32	CMH 08-287 (C)	6.6	5.8	2.9	5.1	MS	6.9	MS	4.3	3.4	3.8	MR	100.0	S
33	Early Composite (C)	9.2	4.6	5.5	6.4	MS	5.2	MS	4.3	6.7	5.5	MS	99.5	S

contd…

Table 40. Screening of AVT I-II (late maturity) maize hybrids in PZ

S.No.	Genotype	TLB(1-9)					BLSB(1-9)		ChR(1-9)				SDM(%)	
		DHAR	MAND	RAHU	Av.score	Reaction	PEDD	Reaction	COIM	HYDE	Av.score	Reaction	MAND	Reaction
34	NK 6240 (C)	7.1	4.3	2.4	4.6	MR	4.9	MR	4.6	4.6	4.6	MR	94.8	S
35	RCRMH4-1 (C)	7.7	4.4	3.0	5.0	MR	4.5	MR	4.0	4.0	4.0	MR	100.0	S
36	VaMH 12014 (C)	5.2	4.9	2.5	4.2	MR	5.0	MR	3.6	2.7	3.1	MR	100.0	S
Z1	Location Mean	6.7	4.4	2.8			4.9		4.4	4.0			71.4	
Z2	CV (%)	13.2	25.6	14.6			19.8		12.7	17.6			19.5	
Z3	F (Prob)	0.0	1.0	0.0			0.2		0.6	0.0			0.0	
Z4	CD (5%)	1.8	2.3	0.8			2.0		1.1	1.4			28.5	
Z5	CD (1%)	2.4	3.1	1.1			2.7		1.5	1.9			38.4	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022, VaMH 12014 (MLB); ADV 7022,VaMH 12014 (BLSB); ADV 7022, VaMH 12014 (ChR); ADV 7022 (SDM)

Susceptible check:- Surya (TLB); Early Composite, CM600, RCRMH4-1 (BLSB); Surya (ChR); Surya, RCRMH4-1 (SDM)

Table 41. Screening of AVT I-II (medium maturity) maize hybrids in PZ

S.No.	Genotype	TLB(1-9)					BLSB(1-9)		ChR(1-9)				SDM(%)	
		DHAR	MAND	RAHU	Av.score	Reaction	PEDD	Reaction	COIM	HYDE	Av.score	Reaction	MAND	Reaction
1	AH 7067R	4.3	3.7	4.5	4.2	MR	6.3	MS	4.4	4.5	4.5	MR	93.6	S
2	AH4271	5.7	5.1	5.3	5.4	MS	6.4	MS	4.7	3.6	4.1	MR	60.0	S
3	BH 416032	2.9	3.9	5.8	4.2	MR	5.7	MS	4.8	3.1	4.0	MR	89.8	S
4	BH416215	3.9	3.5	4.7	4.0	MR	6.7	MS	3.5	2.3	2.9	R	0.0	R
5	BLH 118	3.3	5.1	3.8	4.1	MR	5.4	MS	4.4	2.6	3.5	MR	59.2	S
6	CAH 1511	4.4	4.5	4.7	4.5	MR	7.1	S	4.5	2.7	3.6	MR	58.7	S
7	DKC 8181	4.7	4.9	4.0	4.5	MR	7.0	MS	4.4	4.4	4.4	MR	11.3	MR
8	DKC 9190	2.0	2.9	4.0	3.0	R	6.3	MS	4.9	4.7	4.8	MR	85.4	S
9	DKC 9194	3.8	5.5	3.5	4.3	MR	6.5	MS	4.1	4.9	4.5	MR	88.9	S
10	DKC 9198	3.2	5.0	2.3	3.5	MR	5.4	MS	4.3	4.4	4.3	MR	100.0	S
11	HT 18607	4.7	3.8	4.4	4.3	MR	7.2	S	4.6	2.5	3.5	MR	47.6	MS
12	IMHBG-17 K-17	3.5	5.3	3.4	4.1	MR	6.0	MS	4.9	3.9	4.4	MR	96.2	S
13	IMHBG-17K-15	4.6	4.1	2.7	3.8	MR	5.9	MS	4.3	3.5	3.9	MR	99.4	S
14	INDAM 1118	7.5	7.9	3.0	6.1	MS	6.7	MS	4.8	5.9	5.4	MS	62.6	S
15	INDAM 1122	2.1	3.6	2.8	2.8	R	5.8	MS	5.1	4.9	5.0	MR	95.5	S
16	JH 16045	7.6	6.2	4.2	6.0	MS	6.2	MS	4.3	4.2	4.2	MR	100.0	S
17	JKMH 15303	2.0	3.9	5.6	3.8	MR	7.0	MS	4.3	4.5	4.4	MR	38.2	MS
18	JKMH1518	6.8	6.3	3.9	5.7	MS	5.9	MS	4.1	4.5	4.3	MR	18.1	MR
19	KMH 004	7.7	7.0	4.9	6.5	MS	7.0	MS	3.7	5.2	4.5	MR	88.6	S
20	KMH 16-29	7.2	4.8	5.5	5.8	MS	6.2	MS	5.3	4.3	4.8	MR	89.6	S
21	KNMH 4181	3.5	5.7	3.9	4.3	MR	6.1	MS	4.1	3.1	3.6	MR	100.0	S
22	LMH 1016	2.2	4.1	2.2	2.8	R	5.8	MS	3.8	3.9	3.9	MR	92.8	S
23	LMH 3417	2.6	3.8	2.5	3.0	R	6.5	MS	4.2	4.7	4.4	MR	98.9	S
24	MM9309	2.7	4.7	3.6	3.7	MR	5.6	MS	4.3	3.1	3.7	MR	99.7	S
25	NMH 4053	3.7	5.9	3.6	4.4	MR	6.5	MS	4.1	4.6	4.3	MR	3.6	R
26	OMH 17-47	4.1	3.6	3.2	3.6	MR	7.0	MS	4.4	3.8	4.1	MR	76.2	S
27	PM 17102 M	5.0	4.9	5.4	5.1	MS	6.4	MS	4.9	3.7	4.3	MR	100.0	S
28	PM 18107 M	5.3	4.8	4.4	4.8	MR	5.7	MS	4.1	4.5	4.3	MR	95.3	S
29	TUFAN	4.8	4.6	4.3	4.6	MR	6.1	MS	4.0	3.1	3.5	MR	75.7	S
30	RCRMH 2	3.9	4.2	3.8	4.0	MR	6.4	MS	4.1	3.1	3.6	MR	89.3	S
31	RCRMH 7	2.4	4.6	4.2	3.7	MR	6.2	MS	4.7	3.2	4.0	MR	92.7	S
32	SYN816604	2.8	4.2	5.5	4.2	MR	6.3	MS	4.2	3.3	3.7	MR	67.1	S
33	Surya (C)	6.1	4.3	4.3	4.9	MR	6.5	MS	4.5	5.6	5.0	MR	98.9	S
34	ADV 7022 (C)	5.3	5.6	2.8	4.6	MR	6.6	MS	3.8	3.5	3.7	MR	1.0	R
35	BIO 9544 (C)	3.0	4.2	5.3	4.2	MR	6.2	MS	4.8	1.9	3.3	MR	0.0	R

contd…

Table 41. Screening of AVT I-II (medium maturity) maize hybrids in PZ

S.No.	Genotype	TLB(1-9)					BLSB(1-9)		ChR(1-9)				SDM(%)	
		DHAR	MAND	RAHU	Av.score	Reaction	PEDD	Reaction	COIM	HYDE	Av.score	Reaction	MAND	Reaction
36	CM 600 (C)	8.1	8.5	7.6	8.0	S	7.2	S	5.9	5.5	5.7	MS	91.9	S
37	CMH 08-292 (C)	1.7	3.8	3.1	2.9	R	5.7	MS	4.3	4.0	4.1	MR	65.2	S
38	DHH 121 (C)	3.6	3.5	4.9	4.0	MR	4.7	MR	4.3	2.8	3.6	MR	85.6	S
39	Early Composite (C)	8.5	7.7	7.1	7.7	S	6.7	MS	6.3	6.1	6.2	MS	0.0	R
40	RCRMH4-1 (C)	3.7	4.8	5.8	4.8	MR	6.2	MS	4.2	4.6	4.4	MR	100.0	S
41	VaMH 12014 (C)	3.8	4.6	3.0	3.8	MR	5.9	MS	4.2	3.9	4.0	MR	98.1	S
42	ZH 161032	4.0	4.2	3.8	4.0	MR	6.2	MS	5.8	3.6	4.7	MR	93.9	S
Z1	Location Mean	4.4	4.8	4.2			6.3		4.5	3.9			74.4	
Z2	CV (%)	25.3	17.1	19.9			11.7		14.7	25.0			22.1	
Z3	F (Prob)	0.0	0.0	0.0			0.5		0.4	0.1			0.0	
Z4	CD (5%)	2.2	1.7	1.7			1.5		1.3	2.0			33.5	
Z5	CD (1%)	3.0	2.3	2.3			2.0		1.8	2.7			45.0	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022, VaMH 12014, BIO 9544 (MLB); ADV 7022, VaMH 12014 (BLSB); ADV 7022, VaMH 12014, BIO 9544 (ChR); ADV 7022, BIO 9544 (SDM

Susceptible check:- Surya (TLB); Early Composite, CM600, RCRMH4-1 (BLSB); Surya (ChR); Surya, RCRMH4-1 (SDM)

Table 42. Screening of AVT I-II (early maturity) maize hybrids in PZ

S.No.	Genotype	TLB(1-9)					BLSB(1-9)		ChR(1-9)				SDM(%)	
		DHAR	MAND	RAHU	Av.score	Reaction	PEDD*	Reaction	COIM	HYDE	Av.score	Reaction	MAND	Reaction
1	FH 3861	3.0	4.0	3.1	3.4	MR	3.0		4.2	5.3	4.8	MR	100.0	S
2	FH 3879	4.0	4.5	2.1	3.5	MR	3.0		4.2	4.3	4.3	MR	100.0	S
3	JH 31947	6.0	4.0	2.8	4.3	MR	2.5		4.6	4.9	4.8	MR	100.0	S
4	JH 31950	6.0	4.5	3.3	4.6	MR	5.0		4.2	4.9	4.6	MR	100.0	S
5	JH 32014	7.0	4.0	3.5	4.8	MR	3.5		4.0	5.9	5.0	MR	100.0	S
6	JH 32056	6.5	5.0	3.1	4.9	MR	3.5		4.4	4.8	4.6	MR	100.0	S
7	AH 8181	2.5	4.0	2.5	3.0	R	5.0		6.4	5.3	5.8	MS	84.5	S
8	JH 32057	5.0	3.5	2.6	3.7	MR	3.0		4.0	3.3	3.7	MR	100.0	S
9	JH 32094	8.0	4.5	3.8	5.4	MS	3.0		4.2	5.2	4.7	MR	100.0	S
10	Surya (C)	7.0	4.0	3.2	4.7	MR	3.0		4.3	6.1	5.2	MS	100.0	S
11	ADV 7022 (C)	7.0	4.0	2.8	4.6	MR	2.5		4.8	3.3	4.1	MR	4.0	R
12	BIO 605 (C)	4.0	4.0	3.2	3.7	MR	3.0		4.2	5.8	5.0	MR	87.5	S
13	CM 600 (C)	9.0	9.0	7.1	8.4	S	6.5		4.1	6.5	5.3	MS	100.0	S
14	DKC 7074 (C)	2.5	4.5	2.6	3.2	MR	3.5		4.0	5.1	4.5	MR	21.5	MR
15	Early Composite (C)	9.0	9.0	4.5	7.5	S	3.0		7.4	8.1	7.7	S	100.0	S
16	VaMH 12014 (C)	4.5	4.0	2.0	3.5	MR	3.0		4.2	3.8	4.0	MR	100.0	S
Z1	Location Mean	5.7	4.8	3.3			3.5		4.6	5.2			87.3	
Z2	CV (%)	22.6	11.4	12.9			31.73		13.0	17.9			10.1	
Z3	F (Prob)	0.0	0.0	0.0			0.11		0.0	0.0			0.0	
Z4	CD (5%)	2.7	1.2	0.9			2.37		1.3	2.0			18.8	
Z5	CD (1%)	3.8	1.6	1.2			3.27		1.8	2.7			26.1	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022, VaMH 12014 (MLB); ADV 7022, VaMH 12014 (BLSB); ADV 7022, VaMH 12014 (ChR); ADV 7022 (SDM)

Susceptible check:- Surya (TLB); Early Composite, CM600 (BLSB); Surya (ChR); Surya (SDM)

Table 43. Screening of QPM I II III hybrids in PZ

S.No.	Genotype	TLB(1-9)					BLSB(1-9)		ChR(1-9)				SDM(%)	
		DHAR	MAND	RAHU	Av.score	Reaction	PEDD	Reaction	COIM	HYDE	Av.score	Reaction	MAND	Reaction
1	APH 1 (PROA)	3.6	7.2	3.0	4.6	MR	7.0	MS	4.5	3.8	4.1	MR	100.0	S
2	APH 2 (PROA)	4.1	6.9	3.4	4.8	MR	5.5	MS	5.0	3.0	4.0	MR	98.5	S
3	APH3 (PROA)	3.1	4.7	3.1	3.6	MR	6.0	MS	4.4	3.9	4.1	MR	100.0	S
4	APQH 1 (QPM+PROA)	2.5	3.3	3.1	3.0	R	7.2	S	5.4	3.1	4.2	MR	97.8	S
5	APQH 8 (QPM+PROA)	5.1	5.7	2.4	4.4	MR	6.5	MS	4.6	4.5	4.6	MR	100.0	S
6	FQH 148	6.9	4.5	3.5	5.0	MR	6.3	MS	5.8	5.2	5.5	MS	100.0	S
7	IIMRQPMH 1705	7.6	4.9	3.0	5.2	MS	5.5	MS	4.5	3.7	4.1	MR	98.5	S
8	IIMRQPMH 1708	3.3	3.9	3.1	3.4	MR	3.5	MR	5.1	6.3	5.7	MS	98.1	S
9	IQPMH-18-2	8.1	5.7	3.1	5.6	MS	5.0	MR	4.5	4.1	4.3	MR	100.0	S
10	IQPMH-18-4	4.6	4.9	2.8	4.1	MR	2.5	R	4.8	6.8	5.8	MS	98.5	S
11	IQPMH-19-1	4.3	4.9	2.6	4.0	MR	3.5	MR	6.2	2.9	4.5	MR	98.1	S
12	IQPMH-19-2	2.4	3.0	3.0	2.8	R	6.3	MS	4.7	3.4	4.0	MR	96.5	S
13	IQPMH-19-3	2.5	4.3	3.0	3.3	MR	7.2	S	3.7	2.9	3.3	MR	97.8	S
14	IQPMH-19-4	8.1	6.2	2.3	5.5	MS	6.5	MS	4.2	3.0	3.6	MR	100.0	S
15	VEHQ 16-1	7.1	4.7	4.0	5.3	MS	6.0	MS	4.3	3.8	4.0	MR	100.0	S
16	QPM MH-51	5.1	4.4	3.1	4.2	MR	5.0	MR	4.6	3.7	4.1	MR	98.5	S
17	Surya(C)	4.8	4.9	3.1	4.3	MR	7.6	S	4.5	4.4	4.4	MR	88.3	S
18	ADV7022(C)	5.3	7.6	2.2	5.0	MR	5.7	MS	4.0	3.3	3.6	MR	14.7	MR
19	APQH 9 (C)	6.8	4.9	3.8	5.2	MS	5.0	MR	4.8	5.2	5.0	MR	98.1	S
20	CM 400 (C)	8.3	7.4	7.1	7.6	S	7.6	S	4.6	4.9	4.7	MR	100.0	S
21	CM 500 (C)	7.9	4.5	3.3	5.2	MS	4.3	MR	6.0	4.2	5.1	MS	98.8	S
22	EarlyComposite (C)	9.3	9.1	4.0	7.5	S	4.7	MR	7.9	6.4	7.2	S	100.0	S
23	HQPM-1 (C)	4.9	4.5	2.9	4.1	MR	5.3	MS	4.9	2.5	3.7	MR	98.8	S
24	HQPM-5 (C)	4.3	4.9	3.1	4.1	MR	7.1	S	4.9	2.9	3.9	MR	100.0	S
25	HQPM-7 (C)	3.8	6.6	2.8	4.4	MR	6.2	MS	4.2	2.9	3.6	MR	100.0	S
26	PUSA HM8 IMPROVED (C)	7.3	4.9	2.4	4.9	MR	7.0	MS	5.9	3.5	4.7	MR	98.1	S
27	Pratap QPM Hybrid (C)	3.3	5.6	2.8	3.9	MR	7.2	S	3.6	4.2	3.9	MR	100.0	S
28	RCRMH4-1(C)	5.9	4.5	2.9	4.4	MR	4.3	MR	4.8	4.8	4.8	MR	98.8	S
29	VaMH12014 (C)	3.4	4.5	3.4	3.8	MR	5.3	MS	4.3	2.9	3.6	MR	93.3	S
30	Vivek QPM 9 (C)	5.8	5.4	3.7	5.0	MR	8.1	S	6.2	4.9	5.5	MS	100.0	S
Z1	Location Mean	5.3	5.3	3.2			5.8		4.9	4.0			96.4	
Z2	CV (%)	21.3	20.6	15.8			17.9		15.8	19.7			5.3	
Z3	F (Prob)	0.0	0.0	0.0			0.0		0.0	0.0			0.0	
Z4	CD (5%)	2.3	2.3	1.0			2.1		1.6	1.6			10.5	
Z5	CD (1%)	3.2	3.0	1.4			2.9		2.1	2.2			14.3	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022, VaMH 12014 (MLB); ADV 7022, VaMH 12014 (BLSB); ADV 7022, VaMH 12014 (ChR); ADV 7022 (SDM)

Susceptible check:- Surya (TLB); Early Composite, RCRMH4-1 (BLSB); Surya (ChR); Surya, RCRMH4-1, CM500 (SDM)

Table 44. Screening of baby corn I II III hybrids in PZ

S.No.	Genotype	TLB(1-9)					BLSB(1-9)		ChR(1-9)				SDM(%)	
		DHAR	MAND	RAHU	Av.score	Reaction	PEDD	Reaction	COIM	HYDE	Av.score	Reaction	MAND	Reaction
1	ABHS4-1	8.5	4.0	3.1	5.2	MS	6.5	MS	5.2	5.3	5.3	MS	100.0	S
2	ABHS4-2	7.0	6.0	3.7	5.6	MS	7.0	MS	5.4	4.9	5.2	MS	100.0	S
3	AH 5021	7.5	5.5	3.9	5.6	MS	6.0	MS	4.6	3.7	4.1	MR	100.0	S
4	AH 7043	7.0	4.5	3.3	4.9	MR	7.0	MS	5.2	4.5	4.9	MR	100.0	S
5	AH 7188	7.0	5.5	3.2	5.2	MS	4.0	MR	5.0	4.9	5.0	MR	100.0	S
6	AH 7204	7.0	7.0	3.2	5.7	MS	6.0	MS	4.4	6.0	5.2	MS	100.0	S
7	AHB 7985	5.0	4.5	3.5	4.3	MR	6.5	MS	5.0	5.0	5.0	MR	100.0	S
8	BAU BCH 18-1	8.5	5.0	3.1	5.5	MS	6.5	MS	5.0	6.8	5.9	MS	95.5	S
9	DBCH 326	6.5	6.0	3.3	5.3	MS	3.5	MR	6.0	4.9	5.5	MS	100.0	S
10	IMHSB-19KB-1	6.0	5.5	3.0	4.8	MR	7.0	MS	4.2	4.8	4.5	MR	100.0	S
11	IMHSB-19KB-2	6.5	7.0	3.1	5.5	MS	6.0	MS	5.4	3.6	4.5	MR	5.6	R
12	LMH 3517	8.5	7.0	3.1	6.2	MS	4.0	MR	5.4	6.4	5.9	MS	100.0	S
13	PAC 321	3.5	5.5	2.4	3.8	MR	7.0	MS	5.4	4.8	5.1	MS	87.5	S
14	Surya (C)	5.0	4.5	3.3	4.3	MR	6.0	MS	5.7	4.8	5.2	MS	88.9	S
15	ADV 7022 (C)	5.0	7.5	2.8	5.1	MS	7.0	MS	4.8	4.3	4.6	MR	0.0	R
16	CM 600 (C)	9.0	9.0	7.2	8.4	S	7.0	MS	6.2	5.8	6.0	MS	100.0	S
17	CMVL Baby corn 2 (C)	7.5	6.5	3.2	5.7	MS	6.5	MS	4.6	5.8	5.2	MS	100.0	S
18	Early Composite (C)	9.0	9.0	4.5	7.5	S	7.5	S	4.8	7.5	6.2	MS	100.0	S
19	HM 4 (C)	8.0	4.5	3.2	5.2	MS	7.0	MS	4.8	6.3	5.5	MS	100.0	S
20	RCRMH4-1 (C)	5.5	4.5	3.4	4.5	MR	6.5	MS	5.2	5.6	5.4	MS	100.0	S
21	VaMH 12014 (C)	3.0	5.0	3.6	3.9	MR	6.5	MS	4.4	5.4	4.9	MR	5.3	R
Z1	Location Mean	6.7	5.9	3.5			6.2		5.1	5.3			0.0	
Z2	CV (%)	21.2	22.6	14.2			22.6		14.0	18.8			9.9	
Z3	F (Prob)	0.0	0.0	0.0			0.3		0.5	0.1			13.6	
Z4	CD (5%)	3.0	2.8	1.0			2.9		1.5	2.1				
Z5	CD (1%)	4.0	3.8	1.4			4.0		2.0	2.8				

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022, VaMH 12014 (MLB); ADV 7022, VaMH 12014 (BLSB); ADV 7022, VaMH 12014 (ChR); ADV 7022 (SDM)

Susceptible check:- Surya (TLB); Early Composite, CM600, RCRMH4-1 (BLSB); Surya (ChR); Surya, RCRMH4-1 (SDM)

Table 45. Screening of sweet corn I II III hybrids in PZ

S.No.	Genotype	TLB(1-9)					BLSB(1-9)		ChR(1-9)				SDM(%)	
		DHAR	MAND	RAHU	Av.score	Reaction	PEDD	Reaction	COIM	HYDE	Av.score	Reaction	MAND	Reaction
1	BSCH 417006	8.0	5.0	4.6	5.9	MS	6.5	MS	5.6	5.3	5.4	MS	85.7	S
2	BSCH 417139	8.0	5.5	4.6	6.0	MS	5.0	MR	5.2	5.1	5.1	MS	100.0	S
3	CP Sweet 2	9.0	7.5	4.4	7.0	MS	6.5	MS	7.1	7.8	7.5	S	100.0	S
4	CPSC 301	9.0	5.0	3.8	5.9	MS	7.5	S	5.9	5.9	5.9	MS	100.0	S
5	ISCH 0913	8.5	7.0	5.7	7.1	S	6.5	MS	4.7	6.1	5.4	MS	100.0	S
6	ISCH 1901	8.0	6.5	3.3	5.9	MS	5.5	MS	4.8	6.2	5.5	MS	100.0	S
7	Sweet Purple	9.0	8.0	4.5	7.2	S	7.0	MS	4.8	5.3	5.1	MS	100.0	S
8	Top Sweet	9.0	7.0	4.9	7.0	MS	6.5	MS	4.2	6.5	5.4	MS	100.0	S
9	NUZI 205	9.0	8.5	3.3	6.9	MS	6.5	MS	4.8	5.5	5.2	MS	100.0	S
10	NUZI 260	8.5	6.5	4.0	6.3	MS	7.0	MS	5.4	5.2	5.3	MS	100.0	S
11	Super sweet	8.0	6.5	4.3	6.3	MS	6.5	MS	4.1	7.0	5.6	MS	100.0	S
12	Surya (C)	6.5	5.5	3.3	5.1	MS	6.0	MS	4.4	4.8	4.6	MR	75.7	S
13	ADV 7022 (C)	4.5	4.5	3.3	4.1	MR	7.0	MS	4.4	5.2	4.8	MR	12.5	MR
14	ADVSW-1 (C)	7.0	5.5	5.1	5.9	MS	7.0	MS	4.2	5.8	5.0	MR	48.2	MS
15	ADVSW-2 (C)	8.0	7.5	4.2	6.6	MS	6.0	MS	5.2	5.8	5.5	MS	100.0	S
16	CMVL SC 1 (C)	3.5	4.5	4.1	4.0	MR	7.0	MS	5.2	4.8	5.0	MR	100.0	S
17	Early Composite (C)	9.0	7.5	5.2	7.2	S	6.0	MS	6.5	6.1	6.3	MS	100.0	S
18	Misthi (C)	7.0	6.5	3.8	5.8	MS	7.5	S	5.0	6.0	5.5	MS	100.0	S
19	RCRMH4-1 (C)	7.0	5.0	4.3	5.4	MS	7.0	MS	4.2	4.6	4.4	MR	100.0	S
20	VaMH 12014 (C)	5.0	5.0	3.0	4.3	MR	6.5	MS	5.0	5.2	5.1	MS	74.6	S
Z1	Location Mean	7.6	6.2	4.2			6.55		5.04	5.69			89.84	
Z2	CV (%)	8.8	15.8	17.7			19.22		17.08	19.66			10.99	
Z3	F (Prob)	0.0	0.0	0.1			0.93		0.14	0.48			0.00	
Z4	CD (5%)	1.4	2.1	1.5			2.63		1.80	2.34			20.67	
Z5	CD (1%)	1.9	2.8	2.1			3.60		2.46	3.20			28.25	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022, VaMH 12014 (MLB); ADV 7022, VaMH 12014 (BLSB); ADV 7022, VaMH 12014 (ChR); ADV 7022 (SDM)

Susceptible check:- Surya (TLB); Early Composite, RCRMH4-1 (BLSB); Surya (ChR); Surya, RCRMH4-1 (SDM)

Table 46. Screening of Rainfed (late maturity) maize hybrids in PZ

S.No.	Genotype	TLB(1-9)					BLSB(1-9)		ChR(1-9)				SDM(%)	
		DHAR*	MAND	RAHU	Av.score	Reaction	PEDD	Reaction	COIM	HYDE	Av.score	Reaction	MAND	Reaction
1	CMH 12 -686	3.0	3.5	3.7	3.6	MR	5.5	MS	5.7	2.3	4.0	MR	95.5	S
2	CMH 15-005	2.5	2.5	3.1	2.8	R	5.0	MR	4.2	3.0	3.6	MR	100.0	S
3	Surya (C)	4.0	4.5	4.3	4.4	MR	3.5	MR	4.5	3.8	4.2	MR	90.0	S
4	ADV 7022 (C)	4.0	4.0	3.2	3.6	MR	4.0	MR	4.8	3.0	3.9	MR	13.7	MR
5	Bio 9682 (C)	3.0	4.0	3.1	3.6	MR	3.5	MR	4.6	3.8	4.2	MR	11.1	MR
6	CHM 08-282 (C)	2.0	3.0	3.2	3.1	MR	6.0	MS	4.5	3.8	4.2	MR	90.0	S
7	CMH 08-287 (C)	2.5	4.0	2.9	3.5	MR	4.0	MR	5.3	5.7	5.5	MS	100.0	S
8	Early Composite (C)	4.0	4.0	2.9	3.5	MR	6.0	MS	4.0	3.8	3.9	MR	100.0	S
9	NK 6240 (C)	3.5	3.0	2.8	2.9	R	4.0	MR	4.4	2.6	3.5	MR	87.3	S
10	RCRMH-4-1 (C)	4.5	3.0	3.4	3.2	MR	4.5	MR	4.9	4.8	4.9	MR	100.0	S
Z1	Location Mean	3.3	3.6	3.3			4.6		4.7	3.7			78.8	
Z2	CV (%)	35.3	17.4	20.8			14.9		16.8	21.9			13.7	
Z3	F (Prob)	0.5	0.1	0.6			0.0		0.6	0.0			0.0	
Z4	CD (5%)	2.6	1.4	1.5			1.6		1.8	1.8			24.4	
Z5	CD (1%)	3.8	2.0	2.2			2.2		2.6	2.6			35.1	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022 (MLB); ADV 7022(BLSB); ADV 7022 (ChR); ADV 7022 (SDM)

Susceptible check:- Surya (TLB); Early Composite, RCRMH4-1 (BLSB); Surya (ChR); Surya, RCRMH4-1 (SDM)

Table 47. Screening of Rainfed (medium maturity) maize hybrids in PZ

S.No.	Genotype	TLB(1-9)					BLSB(1-9)		ChR(1-9)				SDM(%)	
		DHAR	MAND	RAHU	Av.score	Reaction	PEDD	Reaction	COIM	HYDE	Av.score	Reaction	MAND	Reaction
1	CAH1511	4.0	4.0	2.9	3.6	MR	6.0	MS	4.0	2.9	3.5	MR	88.2	S
2	OMH14-27	4.5	4.0	3.3	3.9	MR	4.5	MR	4.5	3.2	3.8	MR	94.5	S
3	VaMH 15036	2.5	3.5	5.2	3.7	MR	4.5	MR	6.8	8.0	7.4	S	64.3	S
4	RCRMH7(ZH138388)	4.5	3.5	3.3	3.8	MR	6.0	MS	4.4	2.3	3.4	MR	100.0	S
5	Surya (C)	6.0	4.0	3.3	4.4	MR	4.5	MR	3.8	4.0	3.9	MR	77.8	S
6	ADV 7022 (C)	5.0	5.0	3.2	4.4	MR	5.5	MS	4.2	2.9	3.6	MR	0.0	R
7	Bio 9544 (C)	4.0	4.0	2.6	3.5	MR	5.5	MS	4.2	3.8	4.0	MR	10.0	R
8	CMH 08 292 (C)	2.0	4.0	3.3	3.1	MR	3.0	R	4.2	4.0	4.1	MR	85.7	S
9	DHM 121 (C)	4.5	4.5	3.4	4.1	MR	4.5	MR	4.6	2.5	3.6	MR	100.0	S
10	Early Composite (C)	6.0	3.5	2.9	4.1	MR	6.0	MS	4.6	1.9	3.3	MR	100.0	S
11	RCRMH-4-1 (C)	4.5	4.0	3.2	3.9	MR	3.0	R	4.3	4.17	4.2	MR	100.0	S
Z1	Location Mean	4.3	4.0	3.3			4.8		4.5	3.6			74.6	
Z2	CV (%)	26.8	10.7	17.7			26.3		24.6	22.2			13.4	
Z3	F (Prob)	0.1	0.1	0.1			0.3		0.5	0.0			0.0	
Z4	CD (5%)	2.6	1.0	1.3			2.8		2.5	1.8			22.2	
Z5	CD (1%)	3.7	1.4	1.9			4.0		3.5	2.5			31.6	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022, Bio 9544 (MLB); ADV 7022(BLSB); ADV 7022, Bio 9544 (ChR); ADV 7022, Bio 9544 (SDM)

Susceptible check:- Surya (TLB); Early Composite, RCRMH4-1 (BLSB); Surya (ChR); Surya, RCRMH4-1 (SDM)

Table 48. Screening of Rainfed (early maturity) maize hybrids in PZ

S.No.	Genotype	TLB(1-9)					BLSB(1-9)		ChR(1-9)				SDM(%)	
		DHAR*	MAND	RAHU	Av.score	Reaction	PEDD	Reaction	COIM	HYDE	Av.score	Reaction	MAND	Reaction
1	ADH 8106	-	-	-	-	-	-	-	-	-	-	-	-	-
2	ADH 1619	4.5	4.5	3.3	3.9	MR	3.5	MR	4.4	3.6	4.0	MR	100.0	S
3	ADH 8106	4.0	4.0	2.9	3.4	MR	3.0	R	4.7	2.5	3.6	MR	100.0	S
4	Surya (C)	5.0	5.0	3.3	4.1	MR	3.5	MR	4.6	3.4	4.0	MR	100.0	S
5	Bio 605 (C)	-	-	-	-	-	-	-	-	-	-	-	-	-
6	ADV 7022 (C)	4.0	6.0	2.2	4.1	MR	3.0	R	4.2	3.8	4.0	MR	20.0	MR
7	AH 8127 (C)	3.0	4.0	3.1	3.6	MR	3.0	R	4.3	3.5	3.9	MR	100.0	S
8	Bio 605 (C)	4.0	5.0	3.2	4.1	MR	3.5	MR	4.1	3.8	3.9	MR	70.9	S
9	DKC7074 (C)	2.0	4.0	3.4	3.7	MR	3.0	R	4.7	3.2	3.9	MR	20.0	MR
10	Early Composite (C)	3.5	4.0	2.6	3.3	MR	3.5	MR	4.2	3.8	4.0	MR	100.0	S
11	RCRMH-4-1 (C)	4.5	4.5	3.6	4.1	MR	2.5	R	4.5	5.5	5.0	MR	100.0	S
12	Vivek Hybrid 45 (C)	4.0	6.5	3.3	4.9	MR	4.0	MR	4.9	3.0	4.0	MR	100.0	S
13	Vivek Hybrid 51 (C)	7.0	7.0	4.6	5.8	MS	3.0	R	4.1	4.8	4.5	MR	100.0	S
Z1	Location Mean	4.1	5.0	3.2			3.2		4.4	3.7			82.8	
Z2	CV (%)	34.0	17.0	9.6			20.7		13.0	28.9			10.7	
Z3	F (Prob)	0.2	0.0	0.0			0.7		0.9	0.4			0.0	
Z4	CD (5%)	3.1	1.9	0.7			1.5		1.3	2.4			19.8	
Z5	CD (1%)	4.5	2.7	1.0			2.1		1.8	3.4			28.2	

*The data are not considerd where cv exceed 30 %

Resistant check:- ADV 7022 (MLB); ADV 7022(BLSB); ADV 7022 (ChR); ADV 7022 (SDM)

Susceptible check:- Surya (TLB); Early CompositeRCRMH4-1 (BLSB); Surya (ChR); Surya, RCRMH4-1 (SDM)

Table 49. Screening of NIVT (late maturity) maize hybrids in CWZ

S.No.	Genotype	FSR(1-9)		CLS(1-9)		RDM(%)	
		UDAI*	Reaction	UDAI*	Reaction	UDAI*	Reaction
1	ADV7713	4.2		6.9		100.0	
2	AH 8072	3.5		0.1		0.0	
3	AH 8753	3.3		5.5		40.1	
4	AH1645	6.7		5.6		28.4	
5	AH4139	3.6		5.2		0.0	
6	AH4272	3.1		2.6		0.0	
7	AH5158	3.8		4.5		22.9	
8	BH 417202	4.6		4.3		0.0	
9	BRMH-17068	4.3		5.7		1.5	
10	CMH-15-006	3.7		6.5		71.2	
11	CMH-15-008	3.3		4.1		62.5	
12	CP 555	4.7		4.0		18.2	
13	CP 802	4.4		3.0		11.2	
14	DKC 9207	2.4		4.9		55.6	
15	GH16352	2.3		4.9		64.1	
16	GK 3218	4.9		3.4		0.0	
17	HMM 1018	5.7		2.3		62.4	
18	HT 519074	4.7		2.7		100.0	
19	IM12723	3.5		3.6		0.0	
20	IMHSB-19K-12	4.7		3.3		-	
21	IMHSB-19K-13	4.9		2.9		-	
22	IMHSB-19K-14	4.5		3.8		15.0	
23	IMHVS-102	4.4		6.8		32.7	
24	JH 17011	3.7		1.5		100.0	
25	JH 18056	2.8		4.0		8.0	
26	JH 18057	3.5		5.0		36.3	
27	JH 18087	4.2		2.9		0.0	
28	JH 18088	4.0		5.5		0.0	
29	JH 18091	3.8		3.0		14.8	
30	KH 2193	2.3		3.7		22.8	
31	KH 5146	6.1		5.6		32.7	
32	KMH-8322	5.0		5.2		18.9	
33	KMH-8333	4.2		6.4		38.8	
34	MM2424	3.1		6.0		17.0	
35	NMH 4313	3.4		4.7		20.7	
36	PM 19104L	3.2		3.8		100.0	
37	PM 19105 L	3.6		4.7		29.2	
38	PM 19106 L	3.2		5.2		40.5	
39	PM 19107 L	3.2		4.8		48.4	
40	PM 19108 L	2.5		5.3		27.8	
41	PM 19109 L	4.1		6.4		44.2	
42	PM 19110 L	3.8		5.1		8.6	
43	PM 19111 L	3.5		4.3		12.5	
44	QMH-1604	3.8		3.2		0.0	

contd...

Table 49. Screening of NIVT (late maturity) maize hybrids in CWZ

S.No.	Genotype	FSR(1-9)		CLS(1-9)		RDM(%)	
		UDAI*	Reaction	UDAI	Reaction	UDAI*	Reaction
45	QMH-16101	4.4		4.4		9.4	
46	QMH-1617	3.5		4.6		9.9	
47	QMH-1697	1.7		2.4		21.9	
48	Rasi 6597	2.7		2.6		100.0	
49	Rasi 70574	6.3		3.5		6.1	
50	SBMH 1817	2.7		2.0		100.0	
51	SVMH 1627	2.1		3.7		43.3	
52	SYN916801	6.0		1.8		3.3	
53	TMMH 853	5.3		5.5		33.7	
54	VNR37650	2.6		4.4		27.1	
55	VNR4343	4.8		4.2		100.0	
56	CMH 08-292 (Filler)	4.1		1.9		60.1	
57	Surya (C)	4.8		2.4		100.0	
58	BIO 9682 (C)	2.8		4.4		27.3	
59	CMH 08-282 (C)	3.8		4.8		29.3	
60	Early Composite (C)	5.8		7.6		37.0	
61	RCRMH4-1 (C)	5.2		3.3		2.3	
62	ADV 7022 (C)	5.8		3.0		16.1	
63	CM 600 (C)	5.1		5.2		40.1	
64	CMH 08-287 (C)	4.0		5.2		16.1	
65	NK6240 (C)	2.2		2.1		-	
66	VaMH 12014 (C)	4.0		3.9		29.8	
Z1	Location Mean	4.0		4.2		34.9	
Z2	CV (%)	31.7		52.6		63.8	
Z3	F (Prob)	0.3		0.9		0.3	
Z4	CD (5%)	2.5		4.4		45.8	
Z5	CD (1%)	3.4		5.9		62.0	

*The data are not considerd where cv exceed 30 %

Resistent check:- ADV 7022 (FSR, CLS, RDM); VaMH 12014 (FSR, CLS, RDM); Surya (CLS); BIO 9682 (FSR); RCRMH4-1(RDM) ; ADV7022 (CLS); NK6240 (CLS,RDM)

Susceptible check:- Surya (FSR);BIO 9682 (CLS);CMH08-282(FSR,CLS); RCRMH4-1 (CLS); ADV 7022 (RDM);CM 600 (FSR);CMH 08-287 (FSR,RDM); VaMH12014 (FSR,CLS)

Table 50. Screening of NIVT (medium maturity) maize hybrids in CWZ

S.No.	Genotype	FSR(1-9)		CLS(1-9)		RDM(%)	
		UDAI	Reaction	UDAI*	Reaction	UDAI*	Reaction
1	AH 8245 R	3.0	R	4.5		12.4	
2	AH 8452	6.1	MS	3.6		51.6	
3	AH1625	3.0	R	7.9		34.2	
4	AH1634	4.3	MR	4.5		17.7	
5	AH4142	4.4	MR	5.2		42.4	
6	AH4167	4.2	MR	5.5		27.4	
7	BAU-MH-18-2	3.8	MR	3.5		7.3	
8	BAU-MH-18-3	3.9	MR	3.6		16.1	
9	BH 417152	3.0	R	3.5		2.3	
10	BH 417182	4.0	MR	3.0		14.2	
11	BH 417193	4.6	MR	4.4		25.2	
12	CMH-12-686	4.2	MR	3.1		22.6	
13	CMH-15-012	3.4	MR	4.2		6.5	
14	DH 327	3.0	R	5.8		25.3	
15	DH 328	4.9	MR	3.7		17.4	
16	EH 3638	3.8	MR	3.4		1.9	
17	HMM 1014	4.1	MR	5.9		2.4	
18	HMM 1019	4.9	MR	1.7		1.6	
19	IMHL-K-19-1	1.4	R	6.8		31.9	
20	IWH 1407	5.6	MS	6.8		32.6	
21	IYH 1603	4.2	MR	4.7		31.6	
22	JH 18064	3.3	MR	3.6		0.0	
23	JH 18065	5.2	MS	2.4		10.4	
24	JH 18099	4.2	MR	4.5		21.8	
25	JH 32104	4.9	MR	3.6		14.5	
26	KMH 18-42	4.2	MR	2.6		3.5	
27	KMH 18-71	3.3	MR	2.1		6.7	
28	KNMH 4191	3.0	R	1.8		15.0	
29	KNMH 4192	4.5	MR	3.0		8.9	
30	KNMH 4194	4.0	MR	5.2		33.6	
31	LMH 4119	4.0	MR	3.9		8.8	
32	LMH 4219	3.4	MR	4.2		17.4	
33	LMH 4319	5.1	MS	7.1		26.2	
34	LMH 4419	3.7	MR	4.6		16.1	
35	OMH17-19	3.9	MR	4.0		25.4	
36	OMH17-24	4.1	MR	6.1		39.4	
37	RCRMH 13	3.3	MR	5.3		20.4	
38	RCRMH 14	3.7	MR	3.0		19.7	
39	VaMH 16008	3.5	MR	4.5		1.3	
40	Surya (C)	3.6	MR	5.7		23.4	
41	ADV 7022 (C)	3.4	MR	5.6		28.2	
42	BIO 9544 (C)	4.9	MR	3.0		19.3	
43	CM 600 (C)	5.6	MS	4.2		16.4	
44	CMH 08-292 (C)	5.0	MR	2.9		26.7	
45	DHM 121 (C)	3.8	MR	4.0		21.2	

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Table 50. Screening of NIVT (medium maturity) maize hybrids in CWZ

S.No.	Genotype	FSR(1-9)		CLS(1-9)		RDM(%)	
		UDAI	Reaction	UDAI*	Reaction	UDAI*	Reaction
46	Early Composite (C)	4.5	MR	6.5		20.4	
47	RCRMH4-1 (C)	4.5	MR	2.3		6.9	
48	VaMH 12014 (C)	4.0	MR	3.3		9.7	
Z1	Location Mean	4.0		4.3		18.4	
Z2	CV (%)	24.6		47.7		118.8	
Z3	F (Prob)	0.4		0.7		1.0	
Z4	CD (5%)	2.0		4.1		44.2	
Z5	CD (1%)	2.7		5.5		59.3	

*The data are not considerd where cv exceed 30 %

Resistent check:- ADV 7022 (FSR, CLS, RDM); VaMH 12014 (FSR, CLS, RDM)

Susceptible check:- Surya (FSR, CLS, RDM); RCRMH4-1 (CLS, RDM)

Table 51. Screening of NIVT A (medium maturity) maize hybrids in CWZ

S.No.	Genotype	FSR(1-9)		CLS(1-9)		RDM(%)	
		UDAI	Reaction	UDAI*	Reaction	UDAI*	Reaction
1	ADV 7745	5.6	MS	3.2		0.0	
2	DKC 8205	3.0	R	4.6		15.8	
3	DKC 8209	4.5	MR	5.0		25.6	
4	GGMH-114	6.8	MS	5.6		0.0	
5	GK 3207	3.9	MR	4.2		15.5	
6	HKH-371	4.3	MR	4.7		16.9	
7	HKH-372	4.2	MR	4.9		29.0	
8	HM 19203	4.7	MR	6.2		29.0	
9	HM 19305	2.7	R	3.6		21.3	
10	HT 519015	3.7	MR	5.8		35.3	
11	IAHM 2016-38	3.8	MR	4.6		16.7	
12	IAHM2016-2	4.0	MR	2.6		15.3	
13	IIMWH 1901	3.6	MR	5.1		44.7	
14	IMHSB-19K-10	5.2	MS	2.6		12.3	
15	IMHSB-19K-11	7.3	S	3.7		34.2	
16	IMHSB-19K-2	2.9	R	2.9		13.9	
17	IMHSB-19K-3	3.9	MR	1.8		0.0	
18	IMHSB-19K-4	3.1	MR	2.8		27.3	
19	IMHSB-19K-5	4.6	MR	4.1		8.6	
20	IMHSB-19K-6	4.0	MR	2.7		23.9	
21	IMHSB-19K-7	6.3	MS	5.3		14.7	
22	IMHSB-19K-8	4.9	MR	5.0		40.2	
23	IMHSB-19K-9	3.2	MR	4.4		2.3	
24	IMHVS-101	4.0	MR	4.6		15.1	
25	JKMH 1481	4.9	MR	4.4		19.4	
26	KH 518	5.8	MS	8.6		82.8	
27	KSP-5391	4.4	MR	3.3		15.2	
28	MH 1941	3.6	MR	3.4		37.9	
29	MH 1945	2.8	R	4.8		39.2	
30	MH 1948	5.4	MS	4.2		33.9	
31	NMH 4144	3.9	MR	6.0		4.5	
32	PM 19101 M	4.8	MR	5.2		20.9	
33	PM 19102 M	4.8	MR	5.2		21.2	
34	PM 19103 M	2.2	R	5.3		32.8	
35	SVMH-1130	4.7	MR	3.1		20.9	
36	SYN-916248	3.8	MR	1.1		13.3	
37	SYN916540	6.0	MS	3.8		0.0	
38	SYN916701	5.3	MS	5.3		33.2	
39	TS 2609	5.6	MS	6.2		27.1	
40	Surya (C)	2.6	R	4.3		11.3	
41	ADV 7022 (C)	3.6	MR	3.2		12.4	
42	DHM 121 (C)	6.8	MS	2.2		23.1	
43	BIO 9544 (C)	2.9	R	2.4		3.4	
44	CM 600 (C)	2.8	R	7.7		29.5	
45	CMH 08-292 (C)	5.7	MS	2.2		10.0	

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Table 51. Screening of NIVT A (medium maturity) maize hybrids in CWZ

S.No.	Genotype	FSR(1-9)		CLS(1-9)		RDM(%)	
		UDAI	Reaction	UDAI*	Reaction	UDAI*	Reaction
46	Early Composite (C)	2.6	R			7.8	
47	RCRMH4-1 (C)	5.2	MS			13.4	
48	VaMH 12014 (C)	5.2	MS			8.2	
Z1	Location Mean	4.4		4.2		20.0	
Z2	CV (%)	29.6		34.3		82.1	
Z3	F (Prob)	0.2		0.0		0.1	
Z4	CD (5%)	2.6		2.9		33.2	
Z5	CD (1%)	3.5		3.9		44.5	

*The data are not considerd where cv exceed 30 %

Resistent check:- ADV 7022 (FSR, CLS, RDM); VaMH 12014 (FSR, CLS, RDM)

Susceptible check:- Surya (FSR, CLS, RDM); RCRMH4-1 (CLS, RDM)

Table 52. Screening of NIVT (early maturity) maize hybrids in CWZ

S.No.	Genotype	FSR(1-9)		CLS(1-9)		RDM(%)	
		UDAI*	Reaction	UDAI	Reaction	UDAI*	Reaction
1	AH 8178	4.1		2.6		12.9	
2	AH 8323	2.8		4.2		22.1	
3	AH 8622	5.9		5.7		32.4	
4	AH1608	4.3		3.0		36.1	
5	AH3254	3.0		4.2		43.3	
6	BAU-MH-18-1	4.4		0.2		0.0	
7	BYMH-13-5	3.0		4.7		38.6	
8	DH 321	3.1		1.4		9.3	
9	DH 329	3.2		5.4		28.4	
10	DH 330	4.2		5.3		43.5	
11	DKC 7204	4.1		4.7		45.2	
12	EH 3524	4.2		2.3		12.4	
13	EH 3571	4.1		5.2		47.6	
14	FH 3912	3.8		7.7		59.9	
15	HKH 370	5.2		4.7		50.4	
16	IMHSB-19K-1	3.4		5.6		37.4	
17	JH 32006	3.3		4.4		30.2	
18	JH 32328	4.1		3.3		20.0	
19	JH 32375	3.0		1.7		11.9	
20	JH 32385	4.2		5.7		14.8	
21	JH 32391	3.7		6.4		50.9	
22	KH 102E	2.6		5.8		24.3	
23	KMH 18-13	4.5		6.9		41.1	
24	KMH 18-15	4.5		3.9		22.2	
25	KNMH 4193	2.6		2.7		0.0	
26	LMH 1946	3.9		3.8		3.7	
27	Rasi 50252	2.7		2.1		15.1	
28	VEH18-1	5.0		5.6		35.5	
29	Surya (C)	4.2		1.7		0.0	
30	ADV 7022 (C)	4.3		3.1		25.1	
31	Bio 605 (C)	4.6		3.7		11.2	
32	CM 600 (C)	4.4		3.8		13.3	
33	DKC7074 (C)	2.6		5.0		29.8	
34	Early Composite (C)	3.5		5.6		51.6	
35	RCRMH4-1 (C)	2.6		7.0		72.4	
36	VaMH 12014 (C)	3.4		5.7		36.4	
Z1	Location Mean	3.8		4.3		27.6	
Z2	CV (%)	36.8		50.5		92.3	
Z3	F (Prob)	0.9		0.6		0.7	
Z4	CD (5%)	2.8		4.4		52.1	
Z5	CD (1%)	3.8		6.0		70.3	

*The data are not considerd where cv exceed 30 %

Resistent check:- ADV 7022 (FSR, CLS, RDM); VaMH 12014 (FSR, CLS, RDM)

Susceptible check:- Surya (FSR, CLS, RDM); RCRMH4-1 (CLS, RDM)

Table 53. Screening of AVT I-II (late maturity) maize hybrids in CWZ

S.No.	Genotype	FSR(1-9)		CLS(1-9)		RDM(%)	
		UDAI	Reaction	UDAI*	Reaction	UDAI*	Reaction
1	ADV 1390064	7.1	S	7.0		49.5	
2	ADV 1390164	5.7	MS	3.6		14.2	
3	ADV 7132	4.3	MR	5.8		17.8	
4	B57	3.5	MR	2.0		13.7	
5	BLH 137	4.2	MR	4.0		6.7	
6	Bio 218	3.9	MR	4.2		15.6	
7	Bio 534	4.7	MR	7.3		20.8	
8	CP 858	4.4	MR	3.2		1.9	
9	HT 17169	4.7	MR	3.9		13.2	
10	JH 16041	4.9	MR	0.7		12.4	
11	JH 16081	6.2	MS	4.7		10.6	
12	JH 16224	4.1	MR	6.4		66.1	
13	JH 17026	6.8	MS	6.9		7.1	
14	JKMH 150375	5.7	MS	3.9		13.2	
15	KMH 005	4.3	MR	4.5		21.5	
16	KMH 463	5.5	MS	3.8		3.3	
17	PM 18101 L	4.2	MR	3.2		9.9	
18	PM 18104 L	4.4	MR	3.7		12.1	
19	PM 18105 L	5.8	MS	4.9		25.7	
20	PM 18106 L	5.0	MR	4.1		11.1	
21	RCM 1-61	3.6	MR	5.2		2.5	
22	RCM 1-76	5.8	MS	4.5		47.5	
23	Rasi 3499	4.7	MR	1.5		18.4	
24	Rasi 4992	5.6	MS	3.9		7.7	
25	SUPER 1818	6.4	MS	4.4		18.1	
26	SYN816514	5.1	MS	4.4		4.5	
27	TS 2505	3.8	MR	5.8		27.3	
28	Surya (C)	4.5	MR	3.7		6.4	
29	ADV 7022 (C)	3.8	MR	4.4		10.0	
30	BIO 9682 (C)	4.9	MR	5.7		53.1	
31	CM 600 (C)	3.9	MR	7.7		95.0	
32	CMH 08-287 (C)	5.0	MR	2.5		12.5	
33	Early Composite (C)	4.8	MR	2.7		6.5	
34	NK 6240 (C)	4.4	MR	2.7		12.4	
35	RCRMH4-1 (C)	4.5	MR	2.7		20.1	
36	VaMH 12014 (C)	7.7	S	4.2		37.6	
Z1	Location Mean	4.9		4.3		20.2	
Z2	CV (%)	22.7		37.1		72.9	
Z3	F (Prob)	0.2		0.1		0.0	
Z4	CD (5%)	2.3		3.2		30.1	
Z5	CD (1%)	3.1		4.4		40.5	

*The data are not considerd where cv exceed 30 %

Resistent check:- ADV 7022 (FSR, CLS, RDM); VaMH 12014 (FSR, CLS, RDM)

Susceptible check:- Surya (FSR, CLS, RDM); RCRMH4-1 (CLS, RDM)

Table 54. Screening of AVT I-II (medium maturity) maize hybrids in CWZ

S.No.	Genotype	FSR(1-9)		CLS(1-9)		RDM(%)	
		UDAI	Reaction	UDAI*	Reaction	UDAI*	Reaction
1	AH 7067R	4.0	MR	3.4		11.2	
2	AH4271	4.1	MR	4.7		49.5	
3	BH 416032	6.8	MS	4.2		43.2	
4	BH416215	5.2	MS	1.1		23.5	
5	BLH 118	5.6	MS	4.7		15.7	
6	CAH 1511	4.9	MR	6.8		23.3	
7	DKC 8181	5.3	MS	5.4		35.2	
8	DKC 9190	4.8	MR	6.9		19.3	
9	DKC 9194	5.0	MR	4.4		9.1	
10	DKC 9198	4.6	MR	4.3		10.1	
11	HT 18607	3.9	MR	4.7		11.6	
12	IMHBG-17 K-17	5.7	MS	4.2		27.6	
13	IMHBG-17K-15	5.1	MS	3.8		23.7	
14	INDAM 1118	6.5	MS	6.9		16.4	
15	INDAM 1122	4.0	MR	4.0		28.3	
16	JH 16045	6.1	MS	3.1		8.9	
17	JKMH 15303	4.9	MR	3.1		32.8	
18	JKMH1518	5.0	MR	4.1		45.5	
19	KMH 004	3.2	MR	4.8		43.6	
20	KMH 16-29	6.1	MS	3.7		23.7	
21	KNMH 4181	5.8	MS	4.9		16.7	
22	LMH 1016	5.5	MS	4.5		28.8	
23	LMH 3417	6.2	MS	4.6		52.3	
24	MM9309	6.2	MS	4.4		68.2	
25	NMH 4053	6.8	MS	2.1		10.5	
26	OMH 17-47	6.6	MS	5.7		48.7	
27	PM 17102 M	6.2	MS	6.3		58.5	
28	PM 18107 M	3.8	MR	4.8		11.8	
29	RCRMH 2	5.5	MS	4.6		58.8	
30	RCRMH 7	6.6	MS	2.8		15.1	
31	SYN816604	4.6	MR	6.0		31.2	
32	TUFAN	5.1	MS	5.0		18.2	
33	Surya (C)	6.5	MS	6.1		43.3	
34	ADV 7022 (C)	4.4	MR	3.8		32.2	
35	BIO 9544 (C)	3.9	MR	3.3		23.8	
36	CM 600 (C)	6.6	MS	3.3		57.0	
37	CMH 08-292 (C)	6.0	MS	4.8		46.1	
38	DHH 121 (C)	7.1	S	3.3		32.5	
39	Early Composite (C)	5.2	MS	3.1		14.8	
40	RCRMH4-1 (C)	6.0	MS	4.3		59.6	
41	VaMH 12014 (C)	6.2	MS	5.2		31.7	
42	ZH 161032	4.8	MR	5.2		47.3	
Z1	Location Mean	5.4		4.5		31.2	
Z2	CV (%)	26.4		35.0		63.9	
Z3	F (Prob)	0.8		0.6		0.5	
Z4	CD (5%)	2.9		3.2		40.6	
Z5	CD (1%)	3.9		4.3		54.7	

*The data are not considerd where cv exceed 30 %

Resistent check:- ADV 7022 (FSR, CLS, RDM) ; VaMH 12014 (FSR, CLS, RDM)

Susceptible check:- Surya (FSR, CLS, RDM) ; RCRMH4-1 (CLS, RDM)

Table 55. Screening of AVT I-II (early maturity) maize hybrids in CWZ

S.No.	Genotype	FSR(1-9)		CLS(1-9)		RDM(%)	
		UDAI*	Reaction	UDAI*	Reaction	UDAI*	Reaction
1	AH 8181	7.1		3.5		18.5	
2	FH 3861	4.4		5.5		17.0	
3	FH 3879	4.4		3.5		45.0	
4	JH 31947	5.0		3.5		24.0	
5	JH 31950	6.0		7.0		66.5	
6	JH 32014	6.7		5.3		56.5	
7	JH 32056	5.6		4.8		22.0	
8	JH 32057	6.3		4.0		8.0	
9	JH 32094	5.6		3.0		41.5	
10	Surya (C)	4.6		5.5		10.5	
11	ADV 7022 (C)	5.1		3.5		30.0	
12	BIO 605 (C)	6.1		5.5		19.5	
13	CM 600 (C)	3.6		3.5		21.5	
14	DKC 7074 (C)	6.0		4.0		16.0	
15	Early Composite (C)	4.2		6.3		55.0	
16	VaMH 12014 (C)	7.2		3.5		70.0	
Z1	Location Mean	5.5		4.5		32.6	
Z2	CV (%)	35.4		40.8		65.8	
Z3	F (Prob)	0.8		0.6		0.1	
Z4	CD (5%)	4.1		3.9		45.7	
Z5	CD (1%)	5.7		5.4		63.2	

*The data are not considerd where cv exceed 30 %

Resistent check:- ADV 7022 (FSR, CLS, RDM)

Susceptible check:- Surya (FSR, CLS, RDM)

Table 56. Screening of QPM I II III hybrids in CWZ

S.No.	Genotype	FSR(1-9)		CLS(1-9)		RDM(%)	
		UDAI	Reaction	UDAI*	Reaction	UDAI*	Reaction
1	APH 1 (PROA)	4.0	MR	5.7		49.9	
2	APH 2 (PROA)	5.2	MS	5.4		35.8	
3	APH3 (PROA)	3.1	MR	5.9		1.0	
4	APQH 1 (QPM+PROA)	6.6	MS	6.9		26.7	
5	APQH 8 (QPM+PROA)	5.6	MS	7.5		43.9	
6	FQH 148	5.2	MS	6.7		30.4	
7	IIMRQPMH 1705	2.9	R	1.7		22.3	
8	IIMRQPMH 1708	2.3	R	5.3		1.3	
9	IQPMH-18-2	5.2	MS	6.2		77.9	
10	IQPMH-18-4	3.0	R	5.7		10.3	
11	IQPMH-19-1	5.2	MS	4.6		16.3	
12	IQPMH-19-2	5.2	MS	5.7		23.9	
13	IQPMH-19-3	2.9	R	7.2		29.2	
14	IQPMH-19-4	3.8	MR	4.9		21.5	
15	QPM MH-51	3.8	MR	4.2		25.8	
16	VEHQ 16-1	3.2	MR	6.7		37.9	
17	Surya(C)	5.1	MS	5.7		37.2	
18	ADV7022(C)	4.7	MR	6.5		69.3	
19	APQH 9 (C)	5.6	MS	5.6		44.8	
20	CM 400 (C)	4.8	MR	5.4		36.2	
21	CM 500 (C)	5.2	MS	5.4		16.9	
22	EarlyComposite (C)	4.1	MR	5.7		10.8	
23	HQPM-1 (C)	3.5	MR	3.6		57.9	
24	HQPM-5 (C)	4.3	MR	3.9		40.2	
25	HQPM-7 (C)	3.4	MR	4.2		2.3	
26	PUSA HM8 IMPROVED (C)	5.5	MS	4.3		20.8	
27	Pratap QPM Hybrid (C)	3.4	MR	4.7		46.8	
28	RCRMH4-1(C)	5.4	MS	3.4		0.4	
29	VaMH12014 (C)	3.6	MR	3.9		21.9	
30	Vivek QPM 9 (C)	3.5	MR	6.9		27.2	
Z1	Location Mean	4.3		5.3		29.6	
Z2	CV (%)	26.6		37.8		88.5	
Z3	F (Prob)	0.1		0.9		0.6	
Z4	CD (5%)	2.4		4.1		53.9	
Z5	CD (1%)	3.2		5.6		72.9	

*The data are not considerd where cv exceed 30 %

Resistent check:- ADV 7022 (FSR, CLS, RDM); VaMH 12014 (FSR, CLS, RDM)

Susceptible check:- Surya (FSR, CLS, RDM); RCRMH4-1 (CLS, RDM); CM 500 (FSR)

Table 57. Screening of baby corn I II III hybrids in CWZ

S.No.	Genotype	FSR(1-9)		CLS(1-9)		RDM(%)	
		UDAI	Reaction	UDAI*	Reaction	UDAI*	Reaction
1	ABHS4-1	5.8	MS	2.8		12.0	
2	ABHS4-2	4.3	MR	5.8		12.0	
3	AH 5021	4.9	MR	5.0		38.0	
4	AH 7043	5.3	MS	4.0		19.5	
5	AH 7188	6.6	MS	5.0		15.0	
6	AH 7204	6.9	MS	6.8		17.5	
7	AHB 7985	5.1	MS	3.5		21.0	
8	BAU BCH 18-1	5.1	MS	4.0		18.0	
9	DBCH 326	2.9	R	2.3		14.5	
10	IMHSB-19KB-1	3.9	MR	4.5		19.0	
11	IMHSB-19KB-2	7.0	MS	4.0		18.5	
12	PAC 321	4.4	MR	3.3		21.0	
13	LMH 3517	5.7	MS	3.5		19.5	
14	Surya (C)	5.7	MS	4.3		18.5	
15	HM 4 (C)	6.1	MS	2.0		10.5	
16	ADV 7022 (C)	4.3	MR	2.3		22.0	
17	CM 600 (C)	5.0	MR	3.5		34.5	
18	CMVL Baby corn 2 (C)	5.7	MS	4.3		17.5	
19	Early Composite (C)	4.0	MR	5.0		20.0	
20	RCRMH4-1 (C)	5.3	MS	5.3		9.0	
21	VaMH 12014 (C)	6.5	MS	2.3		57.0	
Z1	Location Mean	5.2		4.0		20.7	
Z2	CV (%)	28.2		33.2		89.6	
Z3	F (Prob)	0.5		0.1		0.8	
Z4	CD (5%)	3.1		2.7		38.7	
Z5	CD (1%)	4.2		3.7		52.8	

*The data are not considerd where cv exceed 30 %

Resistent check:- ADV 7022 (FSR, CLS, RDM) ; VaMH 12014 (FSR, CLS, RDM)

Susceptible check:- Surya (FSR, CLS, RDM); RCRMH4-1 (CLS, RDM)

Table 58. Screening of sweet corn I II III hybrids in CWZ

S.No.	Genotype	FSR(1-9)		CLS(1-9)		RDM(%)	
		UDAI*	Reaction	UDAI*	Reaction	UDAI*	Reaction
1	BSCH 417006	5.7		5.0		20.0	
2	BSCH 417139	5.3		3.5		30.0	
3	CP Sweet 2	4.6		4.3		32.0	
4	CPSC 301	5.6		5.0		24.0	
5	ISCH 0913	4.7		4.5		14.5	
6	ISCH 1901	5.1		4.3		18.5	
7	NUZI 205	5.8		5.8		36.0	
8	NUZI 260	4.8		3.5		32.5	
9	Super sweet	5.1		6.0		29.5	
10	Sweet Purple	5.5		6.0		30.0	
11	Top Sweet	3.9		3.5		24.0	
12	Surya (C)	3.3		6.0		12.5	
13	ADV 7022 (C)	3.8		5.0		16.5	
14	ADVSW-1 (C)	4.5		4.0		27.0	
15	ADVSW-2 (C)	5.6		3.5		14.5	
16	Misthi (C)	7.8		6.3		22.5	
17	CMVL SC 1 (C)	5.0		5.5		24.0	
18	Early Composite (C)	3.6		4.5		20.5	
19	RCRMH4-1 (C)	3.9		5.3		22.0	
20	VaMH 12014 (C)	3.1		5.5		14.0	
Z1	Location Mean	4.8		4.8		23.2	
Z2	CV (%)	33.5		34.8		52.4	
Z3	F (Prob)	0.6		0.8		0.8	
Z4	CD (5%)	3.4		3.5		25.5	
Z5	CD (1%)	4.6		4.8		34.8	

*The data are not considerd where cv exceed 30 %

Resistent check:- ADV 7022 (FSR, CLS, RDM); VaMH 12014 (FSR, CLS, RDM)

Susceptible check:- Surya (FSR, CLS, RDM); RCRMH4-1 (CLS, RDM)

Table 59. Screening of Rainfed (late maturity) maize hybrids in CWZ

S.No.	Genotype	FSR(1-9)		CLS(1-9)		RDM(%)	
		UDAI	Reaction	UDAI*	Reaction	UDAI*	Reaction
1	CMH 12 -686	5.9	MS	6.5		23.0	
2	CMH 15-005	6.0	MS	3.5		9.0	
3	Surya (C)	5.2	MS	2.8		6.0	
4	ADV 7022 (C)	5.3	MS	2.3		7.0	
5	Bio 9682 (C)	3.9	MR	4.5		28.0	
6	CHM 08-282 (C)	3.2	MR	3.5		4.0	
7	CMH 08-287 (C)	4.7	MR	4.0		19.0	
8	Early Composite (C)	5.3	MS	7.0		19.0	
9	NK 6240 (C)	5.5	MS	3.5		15.0	
10	RCRMH-4-1 (C)	2.7	R	4.5		22.5	
Z1	Location Mean	4.7		4.2		15.3	
Z2	CV (%)	24.1		33.5		90.9	
Z3	F (Prob)	0.2		0.1		0.7	
Z4	CD (5%)	2.6		3.2		31.4	
Z5	CD (1%)	3.7		4.6		45.0	

*The data are not considerd where cv exceed 30 %

Resistent check:- ADV 7022 (FSR, CLS, RDM)

Susceptible check:- Surya (FSR, CLS, RDM); RCRMH-4-1 (CLS, RDM)

Table 60. Screening of Rainfed (medium maturity) maize hybrids in CWZ

S.No.	Genotype	FSR (1-9)		CLS(1-9)	
		UDAI*	Reaction	UDAI*	Reaction
1	CAH1511	7.0		-	
2	OMH14-27	5.7		3.0	
3	RCRMH7(ZH138388)	2.9		4.0	
4	VaMH 15036	4.7		6.8	
5	Surya (C)	4.6		5.5	
6	ADV 7022 (C)	5.5		3.5	
7	Bio 9544 (C)	4.8		3.3	
8	CMH 08 292 (C)	3.9		4.8	
9	DHM 121 (C)	4.7		6.3	
10	Early Composite (C)	4.4		4.0	
11	RCRMH-4-1 (C)	4.1		5.8	
Z1	Location Mean	4.7		4.5	
Z2	CV (%)	38.3		55.0	
Z3	F (Prob)	0.7		0.8	
Z4	CD (5%)	4.0		5.5	
Z5	CD (1%)	5.7		7.9	

*The data are not considerd where cv exceed 30 %

Resistent check:- ADV 7022 (FSR, CLS, RDM); VaMH 12014 (FSR, CLS, RDM)

Susceptible check:- Surya (FSR, CLS, RDM); RCRMH4-1 (CLS, RDM)

Table 61. Screening of Rainfed (early maturity) maize hybrids in CWZ

S.No.	Genotype	FSR(1-9)		CLS(1-9)		RDM(%)	
		UDAI*	Reaction	UDAI*	Reaction	UDAI*	Reaction
1	ADH 1619	6.4		3.3		4.0	
2	ADH 8106	5.5		5.5		31.5	
3	Surya (C)	2.8		5.0		18.5	
4	ADV 7022 (C)	6.3		2.0		22.5	
5	AH 8127 (C)	3.1		3.5		29.0	
6	Bio 605 (C)	6.2		2.3		17.0	
7	DKC7074 (C)	3.8		3.3		27.0	
8	Early Composite (C)	4.8		5.0		19.5	
9	RCRMH-4-1 (C)	7.1		3.0		26.0	
10	Vivek Hybrid 45 (C)	4.3		3.3		30.0	
11	Vivek Hybrid 51 (C)	5.9		4.5		21.0	
Z1	Location Mean	5.1		3.7		22.4	
Z2	CV (%)	37.4		44.6		59.6	
Z3	F (Prob)	0.4		0.5		0.7	
Z4	CD (5%)	4.2		3.7		29.7	
Z5	CD (1%)	6.0		5.2		42.3	

*The data are not considerd where cv exceed 30 %

Resistent check:- ADV 7022 (FSR, CLS, RDM); VaMH 12014 (FSR, CLS, RDM)

Susceptible check:- Surya (FSR, CLS, RDM); RCRMH4-1 (CLS, RDM)

Table 62. Screening of NIVT (late maturity) maize hybrids in CWZ

S.No.	Genotype	Cyst Nematode UDAI	Reaction
1	IMHSB-19K-13	14-23	S
2	QMH-1617	12-18	S
3	VNR4343	15-22	S
4	HT 519074	18-24	S
5	IM12723	20-27	S
6	CMH 08-282	16-25	S
7	HMM 1018	10-17	S
8	AH5158	08-15	S
9	AH1645	11-19	S
10	CMH-15-006	24-32	S
11	QMH-16101	22-28	S
12	SBMH 1817	12-18	S
13	PM 19108 L	19-24	S
14	AH 8753	13-20	S
15	NK6240	12-17	S
16	JH 18087	19-26	S
17	KMH-8322	09-16	S
18	JH 18056	09-14	S
19	SVMH 1627	23-33	S
20	BRMH-17068	14-20	S
21	IMHVS-102	10-15	S
22	JH 18091	16-25	S
23	IMHSB-19K-12	13-20	S
24	SYN916801	11-18	S
25	CM 600	30-41	S
26	RCRMH4-1	11-17	S
27	PM 19109 L	15-21	S
28	GK 3218	09-15	S
29	CMH 08-292	13-20	S
30	ADV 7022	10-17	S
31	QMH-1604	08-16	S
32	JH 18057	12-19	S
33	AH4272	03-07	MR
34	VaMH 12014	13-22	S
35	QMH-1697	28-38	S
36	PM 19107 L	10-18	S
37	JH 17011	14-22	S
38	CMH-15-008	15-25	S
39	Rasi 6597	04-08	MR
40	NMH 4313	14-20	S
41	IMHSB-19K-14	17-27	S
42	PM 19111 L	02-06	MR
43	PM 19104L	10-18	S
44	CMH 08-287	13-21	S
45	MM2424	09-16	S
46	KH 2193	13-21	S
47	GH16352	16-25	S
48	CP 555	10-17	S
49	Early Composite	15-23	S
50	AH4139	30-42	S

51	AH 8072	14-24	S
52	Rasi 70574	12-20	S
53	PM 19110 L	08-15	S
54	PM 19105 L	15-23	S
55	ADV7713	10-17	S
56	CP 802	25-32	S
57	VNR37650	28-37	S
58	KH 5146	12-19	S
59	JH 18088	18-25	S
60	PM 19106 L	11-20	S
61	KMH-8333	10-17	S
62	TMMH 853	16-25	S
63	Surya (Check)	19-25	S
64	DKC 9207	14-20	S
65	BIO 9682	11-18	S
66	BH 417202	20-29	S
67	Pratap Makka -3	33-42	S
68	Pratap Hybrid Maize - 3	03-07	MR

Table 63. Screening of NIVT (medium maturity) maize hybrids in CWZ

S.No.	Genotype	Cyst Nematode UDAI	Reaction
1	AH4167	28-36	S
2	DH 327	10-17	S
3	KNMH 4192	14-20	S
4	BH 417182	08-15	S
5	RCRMH4-1	16-24	S
6	KNMH 4194	13-22	S
7	AH4142	10-18	S
8	AH 8245 R	14-23	S
9	RCRMH 13	16-27	S
10	IWH 1407	24-36	S
11	JH 18065	20-25	S
12	ADV 7022	15-22	S
13	OMH17-19	11-17	S
14	CMH-12-686	04-08	MR
15	BAU-MH-18-3	25-33	S
16	LMH 4319	14-23	S
17	JH 18064	10-17	S
18	OMH17-24	15-26	S
19	DHM 121	12-19	S
20	LMH 4119	10-16	S
21	CMH 08-292	08-17	S
22	LMH 4419	18-26	S
23	KNMH 4191	10-16	S
24	CM 600	11-17	S
25	KMH 18-42	20-30	S
26	JH 32104	18-27	S
27	DH 328	15-23	S
28	BH 417193	03-06	MR
29	BIO 9544	19-29	S

30	Surya (Check)	22-28	S
31	BH 417152	13-19	S
32	BAU-MH-18-2	28-36	S
33	Early	24-32	S
34	KMH 18-71	30-38	S
35	VaMH 16008	19-25	S
36	EH 3638	04-09	MR
37	IMHL-K-19-1	30-36	S
38	AH1634	02-07	MR
39	AH 8452	16-22	S
40	VaMH 12014	23-30	S
41	LMH 4219	20-28	S
42	RCRMH 14	14-21	S
43	HMM 1014	27-34	S
44	CMH-15-012	24-30	S
45	JH 18099	22-29	S
46	AH1625	15-21	S
47	HMM 1019	12-19	S
48	IYH 1603	17-26	S
49	Pratap Makka -3	27-35	S
50	Pratap Hybrid Maize - 3	05-08	MR

Table 64. Screening of NIVT (early maturity) maize hybrids in CWZ

S.No.	Genotype	Cyst Nematode UDAI	Reaction
1	AH 8323	12-18	S
2	DH 329	30-38	S
3	ADV 7022	21-28	S
4	KH 102E	32-43	S
5	Bio 605	18-27	S
6	AH1608	23-30	S
7	AH 8622	19-27	S
8	JH 32385	13-20	S
9	Early composite	16-22	S
10	AH 8178	20-27	S
11	JH 32391	27-35	S
12	FH 3912	19-26	S
13	CM 600	40-52	S
14	DH 330	27-33	S
15	DKC7074	03-07	MR
16	JH 32006	12-20	S
17	AH3254	32-40	S
18	KNMH 4193	23-31	S
19	BAU-MH-18-1	17-23	S
20	KMH 18-13	21-28	S
21	HKH 370	16-27	S
22	EH 3571	09-17	S
23	DKC 7204	02-08	MR
24	VEH18-1	15-23	S
25	JH 32328	20-27	S
26	Rasi 50252	21-30	S
27	RCRMH4-1	15-24	S
28	EH 3524	22-29	S

29	JH 32375	30-40	S
30	BYMH-13-5	44-56	S
31	Surya	17-26	S
32	KMH 18-15	23-31	S
33	IMHSB-19K-1	19-28	S
34	VaMH 12014	24-32	S
35	DH 321	13-23	S
36	LMH 1946	18-29	S
37	Pratap Makka -3	28-36	S
38	Pratap Hybrid Maize - 3	02-07	MR

Table 65. Screening of AVT I II (late maturity) maize hybrids in CWZ

S.No.	Genotype	Cyst Nematode UDAI	Reaction
1	CP 858	36-47	S
2	JKMH 150375	23-30	S
3	JH 16224	16-24	S
4	RCRMH4-1(Check)	13-19	S
5	B57	22-31	S
6	ADV 7022	26-33	S
7	VaMH 12014	18-25	S
8	ADV 1390064	31-36	S
9	Bio 534	23-30	S
10	TS 2505	15-22	S
11	JH 17026	03-07	MR
12	Rasi 3499	21-28	S
13	BIO 9682	02-08	MR
14	BLH 137	13-19	S
15	RCM 1-76	22-29	S
16	KMH 005	17-24	S
17	NK 6240	10-18	S
18	Surya (Check)	08-14	S
19	KMH 463	21-29	S
20	PM 18104 L	02-07	MR
21	SUPER 1818	12-20	S
22	PM 18101 L	23-32	S
23	SYN816514	16-24	S
24	Rasi 4992	14-20	S
25	PM 18105 L	11-18	S
26	ADV 7132	23-31	S
27	EarlyComposite (Check)	31-40	S
28	ADV 1390164	26-32	S
29	PM 18106 L	17-23	S
30	CMH 08-287	21-28	S
31	Bio 218	12-19	S
32	JH 16041	20-26	S
33	JH 16081	25-32	S
34	HT 17169	28-37	S
35	CM 600(Check)	32-42	S
36	RCM 1-61	17-27	S
37	Pratap Makka -3	32-42	S
38	Pratap Hybrid Maize - 3	04-08	MR

Table 66. Screening of AVT I II (medium maturity) maize hybrids in CWZ

S.No.	Genotype	Cyst Nematode UDAI	Reaction
1	KNMH 4181	12-19	S
2	LMH 1016	20-26	S
3	BH 416032	30-37	S
4	INDAM 1122	18-27	S
5	BH416215	14-22	S
6	BLH 118	16-20	S
7	KMH 16-29	21-28	S
8	IMHBG-17K-17	03-08	MR
9	IMHBG-17 K-15	29-35	S
10	DKC 9194	11-17	S
11	HT 18607	20-28	S
12	TUFAN	18-23	S
13	ZH 161032	23-30	S
14	JKMH 15303	19-28	S
15	AH4271	15-23	S
16	NMH 4053	10-19	S
17	DKC 9190	20-30	S
18	CMH 08-292	17-26	S
19	SYN816604	13-21	S
20	RCRMH 7	18-26	S
21	JKMH1518	30-37	S
22	Early Composite (Check)	32-42	S
23	PM 18107 M	19-30	S
24	JH 16045	18-28	S
25	PM 17102 M	14-22	S
26	Surya (Check)	16-25	S
27	INDAM 1118	12-22	S
28	ADV 7022	20-28	S
29	CAH 1511	13-21	S
30	OMH 17-47	10-15	S
31	AH 7067R	14-20	S
32	DHH 121	21-29	S
33	BIO 9544	18-25	S
34	RCRMH 2	15-23	S
35	MM9309	30-40	S
36	RCRMH4-1(Chcek)	32-43	S
37	KMH 004	20-26	S
38	LMH 3417	24-33	S
39	VaMH 12014	17-24	S
40	CM 600(Check)	38-50	S
41	DKC 8181	14-20	S
42	DKC 9198	19-28	S
43	Pratap Makka -3	26-36	S
44	Pratap Hybrid Maize - 3	02-07	MR

Table 67. Screening of AVT I II (early maturity) maize hybrids in CWZ

S.No.	Genotype	Cyst Nematode UDAI	Reaction
1	Early Composite (Check)	23-32	S
2	CM 600 (Check)	30-38	S
3	JH 32057	17-23	S
4	FH 3861	21-29	S
5	JH 32094	14-21	S
6	FH 3879	10-18	S
7	Surya (Check)	16-22	S
8	VaMH 12014	19-28	S
9	JH 32014	22-30	S
10	AH 8181	17-25	S
11	DKC 7074	09-15	S
12	JH 31947	18-26	S
13	ADV 7022	20-25	S
14	BIO 605	12-17	S
15	JH 31950	32-43	S
16	JH 32056	15-24	S
17	Pratap Makka -3	30-37	S
18	Pratap Hybrid Maize - 3	02-07	MR

Table 68. Screening of QPM hybrids in CWZ

S.No.	Genotype	Cyst Nematode UDAI	Reaction
1	APQH 8(QPM+PROA)	13-19	S
2	VEHQ 16-1	16-20	S
3	APH 2 (PROA)	26-33	S
4	CM 400	31-40	S
5	Early composite	19-24	S
6	HQPM-1	21-28	S
7	VaMH12014	11-17	S
8	APH3 (PROA)	12-19	S
9	APQH 1(QPM+PROA)	23-31	S
10	HQPM-5	20-27	S
11	ADV7022	16-23	S
12	IIMRQPMH1705	19-27	S
13	HQPM-7	10-14	S
14	IQPMH-19-3	21-27	S
15	Vivek QPM 9	17-23	S
16	CM 500	12-19	S
17	FQH 148	28-41	S
18	PUSA HM8IMPROVED	20-29	S
19	IQPMH-19-2	13-20	S
20	RCRMH4-1	25-32	S
21	IQPMH-18-2	15-21	S
22	QPM MH-51	14-19	S
23	IQPMH-19-4	17-22	S
24	IQPMH-18-4	23-30	S
25	APH 1 (PROA)	03-07	MR
26	Pratap QPM	20-27	S
27	APQH 9	26-38	S
28	Surya	14-20	S

29	IQPMH-19-1	24-30	S
30	IIMRQPMH1708	04-08	MR
31	Pratap Makka -3	32-38	S
32	Pratap Hybrid Maize - 3	03-08	MR

Table 69. Screening of baby corn hybrids in CWZ

S.No.	Genotype	Cyst Nematode UDAI	Reaction
1	LMH 3517	19-28	S
2	DBCH 326	20-27	S
3	ABHS4-1	16-24	S
4	ABHS4-2	24-33	S
5	AH 7043	21-27	S
6	AH 5021	13-23	S
7	AH 7204	20-29	S
8	AH 7188	10-18	S
9	AHB 7985	12-19	S
10	BAU BCH 18-1	22-28	S
11	IMHSB-19KB-1	17-24	S
12	IMHSB-19KB-2	19-25	S
13	PAC 321	24-32	S
14	CMVL Baby corn 2	18-25	S
15	HM 4	33-42	S
16	ADV 7022	27-38	S
17	VaMH 12014	35-44	S
18	Surya (Check)	23-29	S
19	CM 600 (Check)	15-20	S
20	Early Composite (Check)	14-22	S
21	RCRMH4-1 (Check)	23-30	S
22	Pratap Makka -3	28-34	S
23	Pratap Hybrid Maize - 3	03-08	MR

Table 70. Screening of sweet corn hybrids in CWZ

S.No.	Genotype	Cyst Nematode UDAI	Reaction
1	CMVL SC 1	19-25	S
2	NUZI 260	23-30	S
3	RCRMH4-1	17-24	S
4	VaMH 12014	03-08	MR
5	ADVSW-1	18-26	S
6	BSCH 417006	22-30	S
7	CPSC 301	18-27	S
8	Early Composite check	14-20	S
9	Surya (Check)	20-27	S
10	Sweet Purple	31-42	S
11	BSCH 417139	28-36	S
12	CP Sweet 2	33-40	S
13	Misthi (Check)	26-37	S
14	Super sweet	30-40	S
15	NUZI 205	20-28	S
16	ISCH 0913	27-36	S
17	ADV 7022	13-18	S
18	ADVSW-2	16-24	S

19	Top Sweet	11-17	S
20	ISCH 1901	31-42	S
21	Pratap Makka -3	27-35	S
22	Pratap Hybrid Maize - 3	04-08	MR

Table 71. Screening of rainfed maize hybrids in CWZ

S.No.	Genotype	Cyst Nematode UDAI	Reaction
1	RCRMH-4-1 (Check)	16-22	S
2	ADV 7022	11-18	S
3	AH 8127	20-27	S
4	DKC7074	14-20	S
5	ADH 1619	12-19	S
6	Surya (Check)	30-38	S
7	Bio 605	21-27	S
8	Vivek Hybrid 45	16-23	S
9	Early Composite (Check)	13-20	S
10	Vivek Hybrid 51	17-23	S
11	ADH 8106	21-28	S
12	VaMH 15036	15-22	S
13	RCRMH7(ZH138388)	18-25	S
14	CAH1511	02-07	MR
15	Early Composite(Check)	14-21	S
16	CMH 08 292	17-24	S
17	Bio 9544	25-33	S
18	OMH14-27	19-26	S
19	DHM 121	12-20	S
20	NK 6240	20-27	S
21	CMH 12 -686	16-22	S
22	CMH 15-005	03-07l	MR
23	Bio 9682 (Check)	21-27	S
24	CHM 08-282	24-30	S
25	CMH 08-287	32-41	S
26	Pratap Makka -3	35-40	S
27	Pratap Hybrid Maize - 3	02-06	MR

Table 72. Screening of promising maize lines in CWZ (station trial)

S.No.	Genotype	Cyst Nematode UDAI	Reaction
1	EH-3660	14-20	S
2	EH-3661	18-22	S
3	EH-3655	23-28	S
4	EH-3658	16-24	S
5	EH-3652	12-18	S
6	EH-3654	02-07	MR
7	EH-3671	11-20	S
8	EH-3524	14-19	S
9	EH-3638	02-06	MR
10	EH-3571	15-23	S
11	EH-2936	16-25	S
12	EH-3651	10-19	S
13	EI-586-2	08-15	S

14	EI-670-2	05-12	S
15	ECQ-04	12-18	S
16	ECQ-03	15-23	S
17	EI-038	18-26	S
18	EI-2518	21-30	S
19	EI-2188	13-19	S
20	EI-167	30-37	S

Range of cyst/ plant (n = 5)

Table 73. Screening of CIMMYT maize germplasm in NHZ

Entry	Stock ID	Entry Name	Pedigree	TLB (1-9)	
				LARN	Reaction
1	SN396-62	SNL172537	(FMSRSynC2S2)-53-3-1-1	3.1	MR
2	SN396-26	SNL172497	(FMSRSynC2S2)-30-1-1-1	2.8	R
3	SN396-18	SNL172487	(FMSRSynC2S2)-25-2-1-1	3.4	MR
4	SN432-26	SNL172470	(FMSRSynC2S2)-5-3-1-1-B	2.8	R
5	SN400-2	VL1052	CML161-B*11	2.3	R
6	SN432-30	SNL18965	(FMSRSynC2S2)-43-1-1-2-B	3.2	MR
7	SN433-1	SNL182223	(FMSRSynC2S2)-51-1-1-1-B	3.7	MR
8	SN432-18	SNL18959	(FMSRSynC2S2)-13-1-1-2-B	2.8	R
9	SN432-10	SNL172481	(FMSRSynC2S2)-17-3-1-1-B	2.8	R
10	SN432-28	SNL172499	(FMSRSynC2S2)-30-2-1-1-B	2.3	R
11	SN432-14	SNL172479	(FMSRSynC2S2)-17-2-3-1-B	3.2	MR
12	SN432-1	SNL172467	(FMSRSynC2S2)-4-1-1-1-B	3.7	MR
13	SN396-34	SNL172506	(FMSRSynC2S2)-32-2-3-1	3.8	MR
14	SN432-25	SNL172520	(FMSRSynC2S2)-40-2-1-1-B	5.2	MS
15	SN396-21	SNL172489	(FMSRSynC2S2)-26-1-1-1	2.7	R
16	SN396-33	SNL172505	(FMSRSynC2S2)-32-2-2-1	4.0	MR
17	SN432-22	SNL172485	(FMSRSynC2S2)-25-1-1-1-B	3.7	MR
18	SN432-17	SNL172545	(FMSRSynC2S2)-57-2-2-1-B	3.2	MR
19	SN396-30	SNL172500	(FMSRSynC2S2)-31-2-1-1	2.6	R
20	SN439-3	SNL193	(CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML472)/CML472/CML472/CML472-1-4-B	4.1	MR
21	SN439-4	SNL194	(CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML472)/CML472/CML472/CML472-1-5-B	3.2	MR
22	SN439-6	SNL196	(CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML472)/CML472/CML472/CML472-1-9-B	2.8	R
23	SN439-7	SNL197	(CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML472)/CML472/CML472/CML472-1-10-B	2.7	R
24	SN439-9	SNL199	(CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML472)/CML472/CML472/CML472-1-13-B	4.1	MR
25	SN439-10	SNL1910	(CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML472)/CML472/CML472/CML472-1-15-B	3.1	MR
26	SN439-11	SNL1911	(CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML472)/CML472/CML472/CML472-1-16-B	2.8	R
27	SN439-12	SNL1912	(CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML472)/CML472/CML472/CML472-1-17-B	2.3	R
28	SN439-13	SNL1913	(CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML472)/CML472/CML472/CML472-1-18-B	5.4	MS
29	SN393-9	SNL18744	MSRSynC0S1-195-2-2-1	2.7	R
30	SN393-47	SNL18782	MSRSynC0S1-24-2-1-1	4.1	MR
31	SN393-38	SNL18773	MSRSynC0S1-179-2-2-1	3.2	MR
32	SN393-10	SNL18745	MSRSynC0S1-195-2-3-1	3.8	MR

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Table 73. Screening of CIMMYT maize germplasm in NHZ

Entry	Stock ID	Entry Name	Pedigree	TLB (1-9) LARN	Reaction
33	SN393-31	SNL18766	MSRSynC0S1-3-1-1-1	3.6	MR
34	SN393-4	SNL18739	MSRSynC0S1-40-1-4-2	4.8	MR
35	SN393-14	SNL18749	MSRSynC0S1-135-1-2-1	3.6	MR
36	SN393-40	SNL18775	MSRSynC0S1-179-3-2-1	3.8	MR
37	SN393-8	SNL18743	MSRSynC0S1-195-1-4-1	2.6	R
38	SN393-32	SNL18767	MSRSynC0S1-3-2-1-1	2.7	R
39	SN393-15	SNL18750	MSRSynC0S1-135-1-4-1	3.6	MR
40	SN393-21	SNL18756	MSRSynC0S1-201-1-4-1	3.2	MR
41	SN393-29	SNL18764	MSRSynC0S1-212-1-3-3	3.6	MR
42	SN393-26	SNL18761	MSRSynC0S1-212-1-2-2	3.7	MR
43	SN393-7	SNL18742	MSRSynC0S1-195-1-3-1	3.2	MR
44	SN393-45	SNL18780	MSRSynC0S1-24-1-2-1	4.2	MR
45	SN393-37	SNL18772	MSRSynC0S1-179-2-1-1	2.7	R
46	SN393-30	SNL18765	MSRSynC0S1-212-1-3-4	3.6	MR
47	SN393-2	SNL18737	MSRSynC0S1-40-1-3-1	3.2	MR
48	SN393-22	SNL18757	MSRSynC0S1-205-2-1-1	3.6	MR
49	SN393-39	SNL18774	MSRSynC0S1-179-3-1-1	4.2	MR
50	SN393-43	SNL18778	MSRSynC0S1-179-3-5-1	2.8	R
51	SN393-1	SNL18736	MSRSynC0S1-40-1-1-1	3.3	MR
52	SN393-41	SNL18776	MSRSynC0S1-179-3-4-1	3.1	MR
53	SN393-42	SNL18777	MSRSynC0S1-179-3-4-2	2.8	R
54	SN393-24	SNL18759	MSRSynC0S1-212-1-1-2	3.3	MR
55	SN440-1	SNL1914	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-1-1-B	5.7	MS
56	SN440-2	SNL1915	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-1-2-B	3.7	MR
57	SN440-3	SNL1916	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-3-1-B	2.8	R
58	SN440-4	SNL1917	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-3-2-B	3.4	MR
59	SN440-5	SNL1918	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-3-3-B	2.3	R
60	SN440-6	SNL1919	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-3-4-B	3.6	MR
61	SN440-7	SNL1920	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-3-6-B	5.7	MS
62	SN440-8	SNL1921	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-8-1-B	5.6	MS
63	SN440-9	SNL1922	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-8-2-B	5.8	MS
64	SN440-10	SNL1923	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-16-3-B	3.6	MR

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Table 73. Screening of CIMMYT maize germplasm in NHZ

Entry	Stock ID	Entry Name	Pedigree	TLB (1-9) LARN	Reaction
65	SN440-11	SNL1924	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-17-1-B	3.2	MR
66	SN440-12	SNL1925	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-17-2-B	3.7	MR
67	SN440-13	SNL1926	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-17-3-B	6.1	MS
68	SN440-14	SNL1927	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-17-4-B	3.6	MR
69	SN440-15	SNL1928	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-17-5-B	3.8	MR
70	SN440-16	SNL1929	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-25-1-B	3.1	MR
71	SN440-17	SNL1930	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-25-2-B	3.1	MR
72	SN440-20	SNL1933	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-32-1-B	3.9	MR
73	SN440-21	SNL1934	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-32-2-B	3.1	MR
74	SN440-22	SNL1935	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-32-3-B	2.7	R
75	SN440-23	SNL1936	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-32-4-B	2.8	R
76	SN440-24	SNL1937	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-32-5-B	3.3	MR
77	SN440-25	SNL1938	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-32-6-B	3.9	MR
78	SN440-26	SNL1939	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-40-1-B	4.2	MR
79	SN440-27	SNL1940	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-41-1-B	4.0	MR
80	SN440-28	SNL1941	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-41-2-B	6.1	MS
81	SN440-30	SNL1943	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-45-2-B	3.6	MR
82	SN440-31	SNL1944	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-55-1-B	3.3	MR
83	SN440-32	SNL1945	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-55-2-B	4.6	MR
84	SN440-33	SNL1946	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-55-3-B	2.3	R
85	SN440-34	SNL1947	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-58-1-B	3.4	MR
86	SN440-35	SNL1948	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-59-1-B	2.9	R
87	SN440-36	SNL1949	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-59-2-B	2.8	R
88	SN440-37	SNL1950	((CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14/CML470)/CML470//CML470/CML470)-1-60-1-B	5.6	MS
89	CML563	CML563	CML563	2.8	R
90	CML564	CML564	CML564	3.7	MR
91	CML565	CML565	CML565	3.7	MR
92	CML578	CML578	CML578	5.8	MS
93	CML579	CML579	CML579	2.6	R
94	CML580	CML580	CML580	3.6	MR
95	CML581	CML581	CML581	4.7	MR

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Table 73. Screening of CIMMYT maize germplasm in NHZ

Entry	Stock ID	Entry Name	Pedigree	TLB (1-9) LARN	Reaction
96	CML582	CML582	CML582	3.6	MR
97	CML451	CML451	CML451	2.7	R
98	CML474	CML474	CML474	3.7	MR
99	CML470	CML470	CML470	4.2	MR
100	CML472	CML472	CML472	3.7	MR
Mean				3.6	
LSD (0.05)				1.4	
MSe				0.5	
CV				19.4	
p				0.0	
p				***	
Min				2.3	
Max				6.1	
Phenotypic Variance				0.8	
Error Variance				0.2	
Genotypic Variance				0.6	
Heritability				0.7	

Table 74. Screening of CIMMYT maize germplasm in NHZ

S.No.	Stock ID	Entry Name	Pedigree	TLB (1-9)	
				GANG	Reaction
1	SN367-22	VL102	([Pop445c1F2-1-1xPop446c1F2]x[Pop446c1F2-358-2xPop445c1F2])-#-38-2-B*11	4.5	MR
2	SN280-151	VL106	(CA14502/CA14509)-F2-31-1-B*9-B-B	4.0	MR
3	SN388-1	VL1017169	(CLQ-6601xCL-02843)-B-2-2-1-BB-1-B*11	4.0	MR
4	SN388-2	VL109452	(CLQ-6601xCL-02843)-B-26-3-1-BB-2-B*7	2.0	R
5	SN298-75	VL1010760	(CLQ-RCYQ14=(CML164*CML161)-B-1-1-1-BBBxP390Am/CMLc4F218-B-1-B)-B-4-2-BB-2-B*6-B-B-B	2.0	R
6	SN279-6	VL109250	(CLQ-RCYQ28xP390Am/CMLc4F218-B-1-B)-B-43-1-BB-2-B*7-B-B	3.2	MR
7	SN279-47	VL109507	(CML161xCLQ-RCYQ31)-B-23-2-BB-1-B*8-B-B	3.8	MR
8	SN389-6	VL1010764	(CML165xCL-02843)-B-12-3-1-BB-1-B*12	3.0	R
9	SN279-15	VL107579	(CML226xCML295)-32-1-2-2-B-1-B*9-B-B	3.0	R
10	SN318-1	VL105607	(CML474/S92145-2EV-7-3-B*5)-F2-25-1-B*10-B-B-B	4.0	MR
11	SN280-88	VL1012768	(CTS013058/(AMATLC0HS167-1-1-1-2F/R)-B*5/Nei402011)-B*11-B-B	2.8	R
12	SN278-89	VL129	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F232-1-1-1-1-B*4-B-B	2.7	R
13	SN320-56	VL1221	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F76-1-1-1-B*5-B-B-B-B	3.8	MR
14	SN367-81	VL109545	[CL-G2501xCML170]-B-2-3-2-BB-3-B*11	3.4	MR
15	SN388-7	VL0511321	[TS6C1F238-1-3-3-1-2-#-BB/[EV7992#/EV8449-SR]C1F2-334-1(OSU8i)-10-7(I)-X-X-X-2-BB-1]-1-1-2-1-1-B*5-1-B-B2-B*9	3.0	R
16	SN280-137	VL1225	AMATLCOHS44-5-2-2-1-1-B*10-B-B	4.0	MR
17	SN367-69	VL1030	CA00102/CA00106-B-12-2-B*10	1.5	R
18	SN280-56	VL108706	CA00106/CA03147-BB-3-B*6-B-B	2.5	R
19	SN389-12	VL108723	CA00310/AMATLC0HS71-1-1-2-1-1-1-B*20	3.5	MR
20	SN279-45	VL108724	CA00370/(AMATLC0HS133-1-F/R)-1-3-1-2-5-B*15-B-B	3.5	MR
21	SN364-20	VL1030	CA03139-BBB-2-B*10	3.2	MR
22	SN371-34	VL1031	CA03141-1-B-2-B*11	3.0	R
23	SN280-165	VL108726	CA03147-B*7-B-B	3.0	R
24	SN278-71	VL1033	CA14514-B-2-B-2-B*6-B-B	2.9	R
25	SN280-59	SNL1411634	CA14709-4-7-5-1-B*6-B-B	2.1	R
26	SN364-1	SN364-1	CL02450-BB	2.4	R
27	SN278-5	VL109576	CLQ-6603-B-1-B*8-B-B	3.4	MR
28	SN280-189	VL1043	CLQRCYQ59-B*8-B	2.5	R
29	SN388-10	VL108808	CLRCY015-B*10	2.5	R
30	SN388-11	VL1047	CLRCY030-B*12	2.5	R
31	SN367-41	VL108810	CLRCY038-B*10	3.0	R

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Table 74. Screening of CIMMYT maize germplasm in NHZ

S.No.	Stock ID	Entry Name	Pedigree	TLB (1-9) GANG	Reaction
32	SN269-58	VL1048	CLRCY039-B*7-B	2.9	R
33	SN279-53	VL1049	CLRCY040-B*8-B-B	3.0	R
34	SN364-26	VL1050	CLRCY041-B*10	2.5	R
35	SN244-213	VL1018393	CML164-B*8-B	3.2	MR
36	SN408-5	VL1053	CML165-B-B	2.2	R
37	SN371-5	VL1018419	CML193-B*9	3.4	MR
38	SN389-13	VL0512418	CML224-B*12	3.3	MR
39	SN279-77	SNL153297	CML254-B*8-B-B	3.3	MR
40	SN279-82	VL058725	CML312-1-B*7-B	2.9	R
41	SN279-26	VL1018527	CML317-2-B*6-B-B	2.0	R
42	SN367-8	VL1018625	CML422-2-B*10	4.9	MR
43	SN322-1	SNL153088	CML433-B*8	3.0	R
44	SN437-2	CML451	CML451	2.7	R
45	SN279-33	VL1253	CML452=Ac8328BNC6-166-1-1-1-B*15-B-B	3.8	MR
46	SN367-33	VL1012903	CML465-B*10	3.2	MR
47	SN408-1	VL105611	CML470-B-B	3.5	MR
48	SN408-3	VL105612	CML474-B-B	4.4	MR
49	SN389-15	VL1018680	CML495-B*10	3.0	R
50	SN280-103	VL1018140	DTPWC9-F75-3-2-1-2-2-1-3-B*7-B-B	2.9	R
51	SN278-1	VL108853	DTPYC9-F134-2-1-2-1-2-1-1-B*6-B-B	2.4	R
52	SN400-1	VL108855	DTPYC9-F142-1-3-1-2-1-2-2-B*10	3.2	MR
53	SN278-23	VL108856	DTPYC9-F142-1-4-1-2-1-2-1-B*4-B1-BBB-B-B	3.0	R
54	SN367-127	VL062607	DTPYC9-F143-5-4-1-2-B*4-B1-B*6	3.5	MR
55	SN280-62	VL108859	DTPYC9-F143-5-5-1-2-1-2-2-B*8-B-B	2.9	R
56	SN278-10	VL108860	DTPYC9-F145-3-2-1-2-2-1-2-B*6-B-B	3.8	MR
57	SN360-8	VL109080	G18SeqC5F19-1-2-1-2-2-B*6-B-B-B	4.0	MR
58	SN278-35	VL109081	G18SeqC5F236-1-2-1-2-2-B*7-B-B	3.3	MR
59	SN278-91	VL109086	G18SeqC5F76-2-1-2-1-2-BB-B3-B-B1-BB-B	2.9	R
60	SN367-21	VL109179	P31C4S5B-23-##-6-B*7-3-B-1-B*8	3.4	MR
61	SN278-33	VL109184	P31C4S5B-85-##-1-4-5-B*5-1-B-1-B*8-B-B	2.6	R
62	SN278-53	VL1018165	POOL16BNSEQC3F24x10-1-1-2-1-B*9-B-B	3.5	MR
63	SN367-13	VL105617	Pop31C4S5B-85-##-1-2-B*5-B2-BB-4-B*11	3.4	MR

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Table 74. Screening of CIMMYT maize germplasm in NHZ

S.No.	Stock ID	Entry Name	Pedigree	TLB (1-9) GANG	Reaction
64	SN342-2	VL105549	POP351C0-HS155-3-1-BB-1-B-1-B*10	2.8	R
65	SN278-82	VL1018794	S87P69Q(SIYF)131-2-2-1-B*7-B-B	3.0	R
66	SN389-18	SNL153277	SW92145-2EV-7-3-B*5-5-B-1-B*8	1.5	R
67	SN280-147	VL1247	WLS-F238-2-2-1-B-1-B*4-B1-BB-B-B	3.5	MR
68	SN371-26	VL1249	WLS-F299-2-1-2-B-2-B*8	3.9	MR
69	SN367-101	VL057982	ZEWAc1F2-134-4-1-B-1-B*4-1-B-1-B*12	2.5	R
70	SN294-104	SNL15111	(DMSyn-C0)-78-1-B-1-B	2.0	R
71	SN294-27	SNL1529	(DMSyn-C0)-61-2-B-1-B	3.2	MR
72	SN294-31	SNL1533	(DMSyn-C0)-13-1-B-1-B	2.8	R
73	SN294-49	SNL1553	(DMSyn-C0)-33-2-B-1-B	2.8	R
74	SN294-56	SNL1561	(DMSyn-C0)-12-1-B-1-B	2.5	R
75	SN294-58	SNL1563	(DMSyn-C0)-29-1-B-1-B	3.0	R
76	SN294-65	SNL1570	(DMSyn-C0)-62-1-B-1-B	2.8	R
77	SN294-69	SNL1574	(DMSyn-C0)-40-1-B-1-B	2.7	R
78	SN294-74	SNL1580	(DMSyn-C0)-15-2-B-1-B	2.7	R
79	SN294-100	SNL15107	(DMSyn-C0)-21-2-B-1-B	2.8	R
80	SN294-101	SNL15108	(DMSyn-C0)-73-1-B-1-B	3.3	MR
81	SN294-54	SNL1559	(DMSyn-C0)-39-1-B-1-B	3.2	MR
82	SN294-3	SNL153	(DMSyn-C0)-1-1-B-1-B	3.0	R
83	SN294-105	SNL15112	(DMSyn-C0)-49-2-B-1-B	3.4	MR
84	SN294-38	SNL1541	(DMSyn-C0)-53-1-B-1-B	2.9	R
85	SN295-12	SNL142420	(CA14514-7-B-2-B/CA00106-9-B-2-B)-B-3-1-BB-B	2.5	R
86	SN295-158	SNL142534	(CA14514-4-3-1-B/CA00106-9-B-2-B)-BB-10-2-B-B	3.0	R
87	SN295-141	SNL143394	(CA14514-7-B-2-B/CA00106-9-B-2-B)-B-9-1-B-B	3.0	R
88	SN295-136	SNL143392	(CA14514-7-B-2-B/CA00106-9-B-2-B)-B-5-1-BB-B	2.7	R
89	SN360-2	SNL142535	(CA14514-4-3-1-B/CA00106-9-B-2-B)-BB-12-1-BB-B-B	2.3	R
90	SN302-16	SNL143398	(CA14514-7-B-2-B/CA00106-9-B-2-B)-B-29-1-B-B	2.7	R
91	SN295-40	SNL142539	(CA14514-8-1-2-B/CA00106-9-B-2-B)-BB-1-1-BB-B	3.0	R
92	SN295-124	SNL142538	(CA14514-7-B-2-B/SW92145-2P9S2-##-B*6-1-B-2-B)-BB-7-1-BB-B	3.0	R
93	SN295-21	SNL142507	(CA14514-4-1-1-B/CA00106-9-B-2-B)-BB-1-1-BB-B	3.2	MR
94	SN295-24	SNL142400	(CA14514-4-1-1-B/CA14514-9-4-2-B)-B-16-2-BB-B	3.7	MR
95	SN295-56	SNL142468	(CA14514-8-1-2-B/CA14514-9-4-2-B)-B-11-1-BB-B	3.0	R

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Table 74. Screening of CIMMYT maize germplasm in NHZ

S.No.	Stock ID	Entry Name	Pedigree	TLB (1-9) GANG	Reaction
96	SN438-30	SNL1764	((CML474/CIMCALI8843/S9243-BB-#-B-5-1-BB-4-3-4)/CML474)/CML474-1//CML474-1)-1-8-13-1-B-B	3.9	MR
97	SN438-18	SNL1768	((CML474/CIMCALI8843/S9243-BB-#-B-5-1-BB-4-3-4)/CML474)/CML474-1//CML474-1)-1-8-15-1-B	3.7	MR
98	SN438-37	SNL1771	((CML474/CIMCALI8843/S9243-BB-#-B-5-1-BB-4-3-4)/CML474)/CML474-1//CML474-1)-1-8-16-1-B-B	3.5	MR
99	SN438-31	SNL1787	((CML474/CIMCALI8843/S9243-BB-#-B-5-1-BB-4-3-4)/CML474)/CML474-1//CML474-1)-1-8-22-4-B-B	4.0	MR
100	SN438-52	SNL1788	((CML474/CIMCALI8843/S9243-BB-#-B-5-1-BB-4-3-4)/CML474)/CML474-1//CML474-1)-1-8-23-1-B-B	4.0	MR
Mean				3.1	
LSD (0.05)				1.2	
MSe				0.4	
CV				19.8	
p				0.0	
p				***	
Min				1.5	
Max				4.9	
Phenotypic Variance				0.4	
Error Variance				0.2	
Genotypic Variance				0.2	
Heritability				0.5	

Table 75. Screening of CIMMYT maize germplasm in NWPZ

S.No.	Stock ID	Entry Name	Pedigree	BLSB (1-9)	
				KARN	Reaction
1	SN367-76	VL107389	(AC7643/AC7729/TZSRW)-1-75-#-B*4-1-5-6-B*4-B1-B*9	6.3	MS
2	SN367-5	VL109474	(CLQ-RCYQ46=(CML150xCL-03618)-B-17-2-2-BxCL-02450)-B-6-3-BB-1-B*11	5.3	MS
3	SN423-2	VL109287	(CML161xCLQ-RCYQ49=(CML176/CL-G2501)-B-55-2-1-B)-B-19-1-B*12-B	6.3	MS
4	SN367-49	VL1012763	(CTS011004/EY-DMR-G-C5-S2-BB-3-1-B*4/Pop147)F2#89-3-2-B-1-B*15	7.7	S
5	SN360-33	SNL1411606	(NEI411011-B/BLSB-R(China)-BB-12-B2-B-B2-B-B-B	6.3	MS
6	SN299-7	SNL142327	(NEI411011-B/BLSB-R(China)-BB-13-B2-B-B1-B-B	7.8	S
7	SN299-3	ZL125267	(NEI411011-B/BLSB-R(China)-BB-1-B1-B-B-B	7.7	S
8	SN299-1	SNL142319	(NEI412004-B/BLSB-R(China))-BB-10-B-B-B-B	4.2	MR
9	SN360-25	SNL142320	(NEI412004-B/BLSB-R(China))-BB-12-B-B-B-B-B	7.3	S
10	SN367-126	SNL142666	(NEI9008-B/BLSB-R(China)-BB-10-B*5	5.5	MS
11	SN458-3	SNL142793	(NEI9008-B/BLSB-R(China)-BB-12-B*4	5.6	MS
12	SN360-32	SNL142344	(NEI9008-B/BLSB-R(China)-BB-12-B1-B-B-B-B-B	6.3	MS
13	SN360-23	SNL142367	(NEI9008-B/BLSB-R(China)-BB-12-B2-B-B-B-B-B	7.3	S
14	SN299-17	SNL142351	(NEI9008-B/BLSB-R(China)-BB-16-B1-B2-B-B-B	7.6	S
15	SN299-19	SNL142352	(NEI9008-B/BLSB-R(China)-BB-16-B2-B-B-B-B	6.6	MS
16	SN299-20	SNL142353	(NEI9008-B/BLSB-R(China)-BB-17-B-B-B-B	7.0	MS
17	SN299-9	SNL142329	(NEI9008-B/BLSB-R(China)-BB-1-B2-B-B1-B	6.5	MS
18	SN360-29	SNL142381	(NEI9008-B/BLSB-R(China)-BB-23-B-B-B-B	7.8	S
19	SN458-1	SNL142333	(NEI9008-B/BLSB-R(China)-BB-5-B2-B*6	7.2	S
20	SN458-5	SNL142337	(NEI9008-B/BLSB-R(China)-BB-7-B2-B*6	6.1	MS
21	SN299-8	SNL142801	(NEI9008-B/BLSB-R(China)-BB-7-B-B-B	7.3	S
22	SN360-26	SNL142339	(NEI9008-B/BLSB-R(China)-BB-9-B1-B-B-B-B	6.6	MS
23	SN299-4	SNL154021	(NEI9008-B/BLSB-R(China)-BB-9-B-B-B	7.0	MS
24	SN299-10	SNL142800	(NEI9202-B/BLSB-R(China)-BB-10-B-B-B	6.6	MS
25	SN458-2	SNL142370	(NEI9202-B/BLSB-R(China)-BB-14-B*7	6.9	MS
26	SN299-29	SNL142384	(NEI9202-B/BLSB-R(China)-BB-20-B-B-B-B	6.9	MS
27	SN299-21	SNL142359	(NEI9202-B/BLSB-R(China)-BB-5-B-B-B-B-B	7.5	S
28	SN299-22	SNL142360	(NEI9202-B/BLSB-R(China)-BB-6-B1-B1-B-B-B	7.3	S

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Table 75. Screening of CIMMYT maize germplasm in NWPZ

S.No.	Stock ID	Entry Name	Pedigree	BLSB (1-9)	
				KARN	Reaction
29	SN299-23	SNL142364	(NEI9202-B/BLSB-R(China)-BB-8-B1-B1-B-B-B	5.3	MS
30	SN299-24	SNL142365	(NEI9202-B/BLSB-R(China)-BB-8-B1-B2-B-B-B	6.7	MS
31	SN299-25	SNL142366	(NEI9202-B/BLSB-R(China)-BB-8-B2-B-B-B	6.0	MS
32	SN360-28	SNL142367	(NEI9202-B/BLSB-R(China)-BB-9-B-B-B-B-B-B	6.1	MS
33	SN423-5	VL05616	[SC/CML204//FR812]-X-30-2-3-2-1-B*4-1-B*10-B	7.2	S
34	SN299-38	VL1010090	CA00102/CA00106-B-11-1-B*7-B-B-B	5.5	MS
35	SN367-69	VL1030	CA00102/CA00106-B-12-2-B*10	5.9	MS
36	SN423-17	VL108504	CA00102/CA00106-B-13-1-B*10-B	7.8	S
37	SN360-30	VL108526	CA00102/CA00106-B-23-3-B*5-B-B-B-B	8.0	S
38	SN400-19	VL1010090	CA00102-B-1-B-2-B-B1-B*7	6.5	MS
39	SN458-4	VL1012903	CA00310-B*9	6.8	MS
40	SN287-47	VL1016197	CA00314-2-B-3-B*8-B-B	7.1	S
41	SN299-35	VL1043	CLQRCYQ59-B*4-B-B-B	6.8	MS
42	SN388-11	VL1047	CLRCY030-B*12	6.9	MS
43	SN279-82	VL058725	CML312-1-B*7-B	6.4	MS
44	SN367-32	VL1253	CML452=Ac8328BNC6-166-1-1-1-B*18	7.1	S
45	SN367-33	VL1012903	CML465-B*10	6.1	MS
46	SN360-21	VL1018673	CML486=P45c8-76-1-2-1-2-B*13-B-B-B-B	6.3	MS
47	SN423-10	VL121096	NEI9008-B*10-B	6.6	MS
48	SN299-18	VL1016178	POB45c9F22-18-3-1-B*4-1-B*8-B-B-B	7.8	S
49	SN299-42	VL1016179	POB45c9F223-4-2-1-B*11-B-B-B	6.8	MS
50	SN367-28	VL1012847	POP351C0-HS274-1-1-B*4-2-B*9	6.8	MS
51	CML562	CML562	CML562	3.9	MR
52	CML563	CML563	CML563	6.7	MS
53	CML564	CML564	CML564	6.0	MS
54	CML565	CML565	CML565	5.4	MS
55	CML578	CML578	CML578	6.7	MS
56	CML579	CML579	CML579	4.1	MR

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Table 75. Screening of CIMMYT maize germplasm in NWPZ

S.No.	Stock ID	Entry Name	Pedigree	BLSB (1-9)	
				KARN	Reaction
57	CML580	CML580	CML580	7.0	MS
58	CML581	CML581	CML581	7.2	S
59	CML582	CML582	CML582	6.1	MS
60	CML451	CML451	CML451	5.6	MS
61	SN294-104	SNL15111	(DMSyn-C0)-78-1-B-1-B	7.6	S
62	SN280-165	VL108726	CA03147-B*7-B-B	7.0	MS
63	SN367-48	VL108849	DTPWC9-F67-2-2-1-3-2-1-2-B*11	4.3	MR
64	SN423-9	VL0512421	CML227-B*13-B	6.8	MS
65	SN299-39	VL108497	CA00102/CA00106-B-11-2-B*5-B-B-B	7.8	S
66	SN433-3	SNL182225	(FMSRSynC2S1)-2-2-1-1-B-B	6.4	MS
67	SN449-38	SNL19390	(FMSRSynC2S1)-2-3-2-1-B-B2	4.4	MR
68	SN449-9	SNL181119	(FMSRSynC2S1)-3-1-2-1-B-B	6.6	MS
69	SN449-27	SNL181120	(FMSRSynC2S1)-2-2-2-3-B-B	7.4	S
70	SN449-41	SNL172410	FMSRSynC0S2-110-1-B-B-B	5.5	MS
71	SN449-47	SNL172397	FMSRSynC0S2-147-1-B-B-B	6.2	MS
72	SN454-3	SNL182226	FMSRSynC0S2-14-4-B-B-B	5.4	MS
73	SN449-23	SNL182239	FMSRSynC0S2-67-2-B-B-B	6.6	MS
74	SN449-29	SNL19386	FMSRSynC0S2-56-1-B-B-B2	5.9	MS
75	SN433-6	SNL182228	FMSRSynC0S2-178-1-B-B-B	5.9	MS
76	SN446-29	SNL182235	(FMSRSynC2S2)-25-4-1-1-B	6.6	MS
77	SN446-16	SNL172513	(FMSRSynC2S2)-34-3-2-1-B	6.2	MS
78	SN433-9	SNL182231	(FMSRSynC2S2)-35-1-1-1-B	7.2	S
79	SN446-33	SNL172532	(FMSRSynC2S2)-52-2-1-1-B	7.5	S
80	SN448-3	SNL181093	(FMSRSynC2S1)-1-1-1-1-B	6.3	MS
81	SN448-1	SNL181094	(FMSRSynC2S1)-1-2-1-1-B	7.0	MS
82	SN448-4	SNL172646	(FMSRSynC2S1)-2-2-2-1-B	6.2	MS
83	SN448-5	SNL181097	(FMSRSynC2S1)-2-3-1-1-B	7.4	S
84	SN446-49	SNL172492	(FMSRSynC2S2)-27-1-3-1-B	6.5	MS

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Table 75. Screening of CIMMYT maize germplasm in NWPZ

S.No.	Stock ID	Entry Name	Pedigree	BLSB (1-9)	
				KARN	Reaction
85	SN449-20	SNL181121	(FMSRSynC2S1)-2-2-1-2-B-B	6.7	MS
86	SN449-31	SNL19388	FMSRSynC0S2-116-1-B-B1-B2	6.7	MS
87	SN449-14	SNL18982	FMSRSynC0S2-12-1-B-B1-B	4.3	MR
88	SN398-32	SNL172433	FMSRSynC0S2-15-2-B-B	6.0	MS
89	SN398-13	SNL172422	FMSRSynC0S2-167-2-B-B	5.8	MS
90	SN449-16	SNL172406	FMSRSynC0S2-170-1-B-B-B	5.8	MS
91	SN449-3	SNL172446	FMSRSynC0S2-72-4-B-B-B	6.3	MS
92	SN449-10	SNL172447	FMSRSynC0S2-72-5-B-B-B	6.8	MS
93	SN449-17	SNL172449	FMSRSynC0S2-80-2-B-B-B	5.1	MS
94	SN446-3	SNL19380	(FMSRSynC2S2)-4-1-1-1-B2	8.1	S
95	SN446-42	SNL18959	(FMSRSynC2S2)-13-1-1-2-B	6.4	MS
96	SN446-21	SNL18960	(FMSRSynC2S2)-13-2-1-1-B	4.3	MR
97	SN446-45	SNL172479	(FMSRSynC2S2)-17-2-3-1-B	7.0	MS
98	SN446-43	SNL172481	(FMSRSynC2S2)-17-3-1-1-B	6.0	MS
99	CL02450	CL02450	CL02450	4.3	MR
100	CML474	CML474	CML474	6.5	MS
Mean				6.4	
LSD (0.05)				2.4	
MSe				1.5	
CV				19.1	
p				0.2	
p				-	
Min				3.9	
Max				8.1	
Phenotypic Variance				0.9	
Error Variance				0.7	
Genotypic Variance				0.1	
Heritability				0.2	

Table 76. Screening of CIMMYT maize germplasm in NWPZ

S.No.	Stock ID	Entry Name	Pedigree	BLSB (1-9)	
				LUDH	Reaction
1	SN367-76	VL107389	(AC7643/AC7729/TZSRW)-1-75-#-B*4-1-5-6-B*4-B1-B*9	8.0	S
2	SN367-5	VL109474	(CLQ-RCYQ46=(CML150xCL-03618)-B-17-2-2-BxCL-02450)-B-6-3-BB-1-B*11	6.6	MS
3	SN423-2	VL109287	(CML161xCLQ-RCYQ49=(CML176/CL-G2501)-B-55-2-1-B)-B-19-1-B*12-B	8.8	S
4	SN367-49	VL1012763	(CTS011004/EY-DMR-G-C5-S2-BB-3-1-B*4/Pop147)F2#89-3-2-B-1-B*15	6.8	MS
5	SN360-33	SNL1411606	(NEI411011-B/BLSB-R(China)-BB-12-B2-B-B2-B-B-B	7.3	S
6	SN299-7	SNL142327	(NEI411011-B/BLSB-R(China)-BB-13-B2-B-B1-B-B	5.5	MS
7	SN299-3	ZL125267	(NEI411011-B/BLSB-R(China)-BB-1-B1-B-B-B	7.0	MS
8	SN299-1	SNL142319	(NEI412004-B/BLSB-R(China))-BB-10-B-B-B-B	8.1	S
9	SN360-25	SNL142320	(NEI412004-B/BLSB-R(China))-BB-12-B-B-B-B-B	4.0	MR
10	SN367-126	SNL142666	(NEI9008-B/BLSB-R(China)-BB-10-B*5	6.6	MS
11	SN458-3	SNL142793	(NEI9008-B/BLSB-R(China)-BB-12-B*4	6.1	MS
12	SN360-32	SNL142344	(NEI9008-B/BLSB-R(China)-BB-12-B1-B-B-B-B-B	7.1	S
13	SN360-23	SNL142367	(NEI9008-B/BLSB-R(China)-BB-12-B2-B-B-B-B-B	5.9	MS
14	SN299-17	SNL142351	(NEI9008-B/BLSB-R(China)-BB-16-B1-B2-B-B-B	7.0	MS
15	SN299-19	SNL142352	(NEI9008-B/BLSB-R(China)-BB-16-B2-B-B-B-B	7.1	S
16	SN299-20	SNL142353	(NEI9008-B/BLSB-R(China)-BB-17-B-B-B-B	6.4	MS
17	SN299-9	SNL142329	(NEI9008-B/BLSB-R(China)-BB-1-B2-B-B1-B	6.5	MS
18	SN360-29	SNL142381	(NEI9008-B/BLSB-R(China)-BB-23-B-B-B-B	7.3	S
19	SN458-1	SNL142333	(NEI9008-B/BLSB-R(China)-BB-5-B2-B*6	7.0	MS
20	SN458-5	SNL142337	(NEI9008-B/BLSB-R(China)-BB-7-B2-B*6	6.9	MS
21	SN299-8	SNL142801	(NEI9008-B/BLSB-R(China)-BB-7-B-B-B	6.7	MS
22	SN360-26	SNL142339	(NEI9008-B/BLSB-R(China)-BB-9-B1-B-B-B-B	6.5	MS
23	SN299-10	SNL142800	(NEI9202-B/BLSB-R(China)-BB-10-B-B-B	7.2	S
24	SN458-2	SNL142370	(NEI9202-B/BLSB-R(China)-BB-14-B*7	6.8	MS
25	SN299-29	SNL142384	(NEI9202-B/BLSB-R(China)-BB-20-B-B-B-B	7.9	S
26	SN299-21	SNL142359	(NEI9202-B/BLSB-R(China)-BB-5-B-B-B-B-B	6.5	MS
27	SN299-22	SNL142360	(NEI9202-B/BLSB-R(China)-BB-6-B1-B1-B-B-B	7.0	MS
28	SN299-23	SNL142364	(NEI9202-B/BLSB-R(China)-BB-8-B1-B1-B-B-B	6.6	MS
29	SN299-24	SNL142365	(NEI9202-B/BLSB-R(China)-BB-8-B1-B2-B-B-B	6.6	MS
30	SN299-25	SNL142366	(NEI9202-B/BLSB-R(China)-BB-8-B2-B-B-B	6.9	MS
31	SN360-28	SNL142367	(NEI9202-B/BLSB-R(China)-BB-9-B-B-B-B-B-B	9.1	FALSE
32	SN423-5	VL05616	[SC/CML204//FR812]-X-30-2-3-2-1-B*4-1-B*10-B	4.5	MR
33	SN299-38	VL1010090	CA00102/CA00106-B-11-1-B*7-B-B-B	6.9	MS
34	SN367-69	VL1030	CA00102/CA00106-B-12-2-B*10	5.2	MS

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Table 76. Screening of CIMMYT maize germplasm in NWPZ

S.No.	Stock ID	Entry Name	Pedigree	BLSB (1-9)	
				LUDH	Reaction
35	SN423-17	VL108504	CA00102/CA00106-B-13-1-B*10-B	7.8	S
36	SN360-30	VL108526	CA00102/CA00106-B-23-3-B*5-B-B-B-B	5.7	MS
37	SN400-19	VL1010090	CA00102-B-1-B-2-B-B1-B*7	7.1	S
38	SN458-4	VL1012903	CA00310-B*9	6.0	MS
39	SN287-47	VL1016197	CA00314-2-B-3-B*8-B-B	5.3	MS
40	SN299-35	VL1043	CLQRCYQ59-B*4-B-B-B	6.3	MS
41	SN388-11	VL1047	CLRCY030-B*12	5.8	MS
42	SN279-82	VL058725	CML312-1-B*7-B	5.3	MS
43	SN367-32	VL1253	CML452=Ac8328BNC6-166-1-1-1-B*18	6.7	MS
44	SN367-33	VL1012903	CML465-B*10	5.8	MS
45	SN360-21	VL1018673	CML486=P45c8-76-1-2-1-2-B*13-B-B-B-B	6.5	MS
46	SN423-10	VL121096	NEI9008-B*10-B	5.0	MR
47	SN299-18	VL1016178	POB45c9F22-18-3-1-B*4-1-B*8-B-B-B	5.0	MR
48	SN299-42	VL1016179	POB45c9F223-4-2-1-B*11-B-B-B	7.5	S
49	SN367-28	VL1012847	POP351C0-HS274-1-1-B*4-2-B*9	8.5	S
50	CML451	CML451	CML451	8.1	S
Mean				6.7	
LSD (0.05)				1.8	
MSe				0.8	
CV				13.2	
p				0.0	
p				***	
Min				4.0	
Max				9.1	
Phenotypic Variance				1.1	
Error Variance				0.4	
Genotypic Variance				0.7	
Heritability				0.6	

Table 77. Screening of CIMMYT maize germplasm in PZ

S.No.	Stock ID	Entry Name	Pedigree	TLB (1-9)	
				MAND	Reaction
1	SN449-38	SNL19390	(FMSRSynC2S1)-2-3-2-1-B-B2	3.7	MR
2	SN449-9	SNL181119	(FMSRSynC2S1)-3-1-2-1-B-B	3.4	MR
3	SN449-27	SNL181120	(FMSRSynC2S1)-2-2-2-3-B-B	3.3	MR
4	SN449-41	SNL172410	FMSRSynC0S2-110-1-B-B-B	-	-
5	SN449-47	SNL172397	FMSRSynC0S2-147-1-B-B-B	4.2	MR
6	SN454-3	SNL182226	FMSRSynC0S2-14-4-B-B-B	5.6	MS
7	SN449-23	SNL182239	FMSRSynC0S2-67-2-B-B-B	3.1	MR
8	SN449-29	SNL19386	FMSRSynC0S2-56-1-B-B-B2	4.9	MR
9	SN433-6	SNL182228	FMSRSynC0S2-178-1-B-B-B	4.6	MR
10	SN433-14	SNL182236	FMSRSynC0S2-181-1-B-B1-B	4.2	MR
11	SN449-13	SNL19384	FMSRSynC0S2-14-2-B-B2-B2	3.9	MR
12	SN446-26	SNL172494	(FMSRSynC2S2)-27-3-1-1-B	5.1	MS
13	SN446-16	SNL172513	(FMSRSynC2S2)-34-3-2-1-B	4.7	MR
14	SN433-9	SNL182231	(FMSRSynC2S2)-35-1-1-1-B	4.4	MR
15	SN446-33	SNL172532	(FMSRSynC2S2)-52-2-1-1-B	4.6	MR
16	SN448-3	SNL181093	(FMSRSynC2S1)-1-1-1-1-B	5.2	MS
17	SN448-1	SNL181094	(FMSRSynC2S1)-1-2-1-1-B	3.9	MR
18	SN448-4	SNL172646	(FMSRSynC2S1)-2-2-2-1-B	3.0	R
19	SN448-5	SNL181097	(FMSRSynC2S1)-2-3-1-1-B	4.3	MR
20	SN448-6	SNL181098	(FMSRSynC2S1)-3-1-1-1-B	2.6	R
21	SN448-2	SNL172654	(FMSRSynC2S1)-4-1-3-1-B	4.1	MR
22	SN449-20	SNL181121	(FMSRSynC2S1)-2-2-1-2-B-B	4.2	MR
23	SN449-31	SNL19388	FMSRSynC0S2-116-1-B-B1-B2	3.4	MR
24	SN449-14	SNL18982	FMSRSynC0S2-12-1-B-B1-B	3.9	MR
25	SN449-4	SNL172396	FMSRSynC0S2-141-1-B-B-B	3.8	MR
26	SN398-32	SNL172433	FMSRSynC0S2-15-2-B-B	3.9	MR
27	SN398-13	SNL172422	FMSRSynC0S2-167-2-B-B	3.2	MR
28	SN449-16	SNL172406	FMSRSynC0S2-170-1-B-B-B	3.7	MR
29	SN449-3	SNL172446	FMSRSynC0S2-72-4-B-B-B	4.2	MR
30	SN449-10	SNL172447	FMSRSynC0S2-72-5-B-B-B	3.7	MR
31	SN449-17	SNL172449	FMSRSynC0S2-80-2-B-B-B	3.4	MR
32	SN446-3	SNL19380	(FMSRSynC2S2)-4-1-1-1-B2	4.4	MR
33	SN446-37	SNL172471	(FMSRSynC2S2)-6-1-1-1-B	3.0	R
34	SN432-13	SNL172473	(FMSRSynC2S2)-13-1-1-1-B	3.8	MR
35	SN446-42	SNL18959	(FMSRSynC2S2)-13-1-1-2-B	3.4	MR
36	SN446-21	SNL18960	(FMSRSynC2S2)-13-2-1-1-B	4.3	MR
37	SN446-11	SNL172475	(FMSRSynC2S2)-13-3-1-1-B	3.7	MR
38	SN446-28	SNL18961	(FMSRSynC2S2)-16-1-1-2-B	4.2	MR
39	SN446-18	SNL172477	(FMSRSynC2S2)-17-2-1-1-B	4.6	MR
40	SN446-45	SNL172479	(FMSRSynC2S2)-17-2-3-1-B	3.7	MR
41	SN446-43	SNL172481	(FMSRSynC2S2)-17-3-1-1-B	3.7	MR
42	SN446-41	SNL172482	(FMSRSynC2S2)-17-3-2-1-B	3.4	MR
43	SN446-15	SNL172487	(FMSRSynC2S2)-25-2-1-1-B	3.8	MR
44	SN446-25	SNL18962	(FMSRSynC2S2)-25-2-1-2-B	4.3	MR
45	SN446-30	SNL172489	(FMSRSynC2S2)-26-1-1-1-B	4.3	MR

Contd...

Table 77. Screening of CIMMYT maize germplasm in PZ

S.No.	Stock ID	Entry Name	Pedigree	TLB (1-9)	
				MAND	Reaction
46	SN446-49	SNL172492	(FMSRSynC2S2)-27-1-3-1-B	3.9	MR
47	SN446-23	SNL172498	(FMSRSynC2S2)-30-1-2-1-B	3.6	MR
48	SN446-44	SNL172499	(FMSRSynC2S2)-30-2-1-1-B	3.8	MR
49	SN396-32	SNL172504	(FMSRSynC2S2)-32-2-1-1	6.6	MS
50	SN446-35	SNL172505	(FMSRSynC2S2)-32-2-2-1-B	4.3	MR
51	SN446-24	SNL172520	(FMSRSynC2S2)-40-2-1-1-B	3.9	MR
52	SN446-54	SNL18966	(FMSRSynC2S2)-43-3-2-2-B	3.8	MR
53	SN446-51	SNL172527	(FMSRSynC2S2)-46-5-1-1-B	4.2	MR
54	SN446-6	SNL172538	(FMSRSynC2S2)-54-1-1-1-B	3.3	MR
55	SN446-13	SNL19382	(FMSRSynC2S2)-57-2-2-1-B2	3.4	MR
56	SN449-5	SNL172450	FMSRSynC0S2-104-2-B-B-B	4.8	MR
57	SN398-17	SNL172424	FMSRSynC0S2-174-2-B-B	3.9	MR
58	SN449-48	SNL172385	FMSRSynC0S2-4-1-B-B-B	4.7	MR
59	SN449-24	SNL172453	FMSRSynC0S2-14-1-B-B-B	4.7	MR
60	SN432-34	SNL172416	FMSRSynC0S2-134-3-B-B-B	3.2	MR
61	SN454-5	SNL172509	(FMSRSynC2S2)-33-3-1-1-B	4.3	MR
62	SN433-3	SNL182225	(FMSRSynC2S1)-2-2-1-1-B-B	3.4	MR
63	SN446-29	SNL182235	(FMSRSynC2S2)-25-4-1-1-B	3.5	MR
64	SN446-38	SNL172519	(FMSRSynC2S2)-40-1-1-1-B	3.3	MR
65	SN410-7	SNL181123	(FMSRSynC2S1)-4-1-1-2-B	4.1	MR
66	SN433-16	SNL182238	(FMSRSynC2S1)-2-2-2-2-B-B	4.3	MR
67	SN398-4	SNL172412	FMSRSynC0S2-110-3-B-B	4.2	MR
68	SN398-52	SNL172407	FMSRSynC0S2-170-2-B-B	4.9	MR
69	SN398-57	SNL172441	FMSRSynC0S2-58-1-B-B	3.7	MR
70	SN433-8	SNL182230	FMSRSynC0S2-38-3-B-B-B	3.8	MR
71	SN433-15	SNL182237	FMSRSynC0S2-181-1-B-B2-B	3.1	MR
72	SN398-73	SNL172402	FMSRSynC0S2-41-1-B-B	3.5	MR
73	SN446-7	SNL172506	(FMSRSynC2S2)-32-2-3-1-B1	3.7	MR
74	SN446-4	SNL182227	(FMSRSynC2S2)-34-5-1-1-B	5.3	MS
75	SN433-1	SNL182223	(FMSRSynC2S2)-51-1-1-1-B	3.7	MR
76	SN448-7	SNL181122	(FMSRSynC2S1)-4-1-2-1-B	3.2	MR
77	SN432-15	SNL172644	(FMSRSynC2S1)-2-2-1-3-B	4.3	MR
78	SN449-43	SNL18980	FMSRSynC0S2-116-1-B-B2-B	4.7	MR
79	SN449-35	SNL18981	FMSRSynC0S2-116-1-B-B3-B	4.3	MR
80	SN449-22	SNL172413	FMSRSynC0S2-126-1-B-B-B	4.3	MR
81	SN398-29	SNL172423	FMSRSynC0S2-174-1-B-B	3.2	MR
82	SN449-26	SNL172438	FMSRSynC0S2-53-4-B-B-B	3.4	MR
83	SN432-26	SNL172470	(FMSRSynC2S2)-5-3-1-1-B	4.1	MR
84	SN446-52	SNL172472	(FMSRSynC2S2)-6-1-2-1-B	3.7	MR
85	SN446-48	SNL172476	(FMSRSynC2S2)-16-1-1-1-B	3.3	MR
86	SN446-55	SNL172485	(FMSRSynC2S2)-25-1-1-1-B	4.1	MR
87	SN446-17	SNL172491	(FMSRSynC2S2)-27-1-2-1-B	3.2	MR
88	SN396-25	SNL172496	(FMSRSynC2S2)-27-4-2-1	4.1	MR
89	SN446-10	SNL172497	(FMSRSynC2S2)-30-1-1-1-B	3.2	MR
90	SN446-31	SNL172500	(FMSRSynC2S2)-31-2-1-1-B	4.7	MR

Contd...

Table 77. Screening of CIMMYT maize germplasm in PZ

S.No.	Stock ID	Entry Name	Pedigree	TLB (1-9) MAND	Reaction
91	SN396-42	SNL172518	(FMSRSynC2S2)-37-3-1-1	3.3	MR
92	SN446-40	SNL18964	(FMSRSynC2S2)-37-3-1-2-B	4.2	MR
93	SN446-36	SNL18965	(FMSRSynC2S2)-43-1-1-2-B	3.7	MR
94	SN446-32	SNL172523	(FMSRSynC2S2)-43-2-1-1-B	3.2	MR
95	SN432-9	SNL172525	(FMSRSynC2S2)-43-3-2-1-B	3.6	MR
96	SN432-21	SNL18967	(FMSRSynC2S2)-46-5-1-2-B	3.7	MR
97	SN446-14	SNL172530	(FMSRSynC2S2)-52-1-1-1-B	4.1	MR
98	CML470	CML470	CML470	3.9	MR
99	CML474	CML474	CML474	4.6	MR
100	CML451	CML451	CML451	3.9	MR
Mean				4.0	
LSD (0.05)				1.6	
MSe				0.5	
CV				17.6	
p				0.1	
p					
Min				2.6	
Max				6.6	
Phenotypic Variance				0.4	
Error Variance				0.2	
Genotypic Variance				0.2	
Heritability				0.4	

Table 78. Screening of inbreed lines

S. No	Inbred Lines	MLB (1-9) KARN	Reaction
1	CI-4TLB	5.3	MS
2	CM202TLB	5.1	MS
3	CMI164	4.4	MR
4	CMI223	4.3	MR
5	HKI161	5.7	MS
6	HUZM152	6.3	MS
7	HUZM186	5.3	MS
8	HUZM221	5.0	MR
9	HUZM246	5.8	MS
10	HUZM265	4.5	MR
11	HUZM36	4.1	MR
12	HUZM379	6.3	MS
13	HUZM383-2	4.4	MR
14	HUZM509	4.9	MR
15	HUZM53	7.2	S
16	HUZM531-1	6.2	MS
17	HUZM705	6.3	MS
18	HUZM72	6.9	MS
19	HUZM79	5.0	MR
20	IAMI16	6.3	MS
21	IAMI21	6.3	MS
22	IAMI23	5.0	MR
23	IAMI31	5.3	MS
24	IAMI34	4.9	MR
25	IAMI48	5.5	MS
26	IAMI52	6.7	MS
27	IAMI54	5.5	MS
28	IAMI57	5.7	MS
29	IAMI83	4.3	MR
30	JCY11-2	2.9	R
31	JCY45	3.6	MR
32	JCY6	4.5	MR
33	LMDR1	3.7	MR
34	LMDR18	5.8	MS
35	LMDR19	6.7	MS
36	LMDR2	4.2	MR
37	LMDR20	3.0	R
38	LMDR3	4.3	MR
39	LMDR4	4.3	MR
40	LMDR5	4.9	MR
41	LMDR8	4.5	MR
42	PMI-PV1	5.4	MS
43	PMI-PV2	5.9	MS
44	PMI-SwT019	7.2	S
45	PMI-SwT020	5.7	MS
46	PMI01	7.3	S
47	PMI02	4.4	MR
48	PMI03	3.7	MR
49	PML1223	5.6	MS
50	PML368	3.7	MR
51	PML902	4.6	MR
52	Rcheck	5.8	MS
53	S.Check	6.0	MS
Mean		5.2	
CV		15.6	
MS error		0.7	
Df		51.0	
ntr		53.0	

Table 79. Screening of inbreed lines

S. No	Inbred Lines	MLB (1-9) LUDH	Reaction
1	CI-4TLB	4.5	MR
2	CM202TLB	5.5	MS
3	CMI164	3.0	R
4	CMI223	2.5	R
5	HKI161	3.5	MR
6	HUZM152	7.5	S
7	HUZM186	7.5	S
8	HUZM221	2.5	R
9	HUZM246	6.5	MS
10	HUZM265	2.5	R
11	HUZM36	3.0	R
12	HUZM379	7.0	MS
13	HUZM383-2	5.5	MS
14	HUZM509	7.0	MS
15	HUZM53	7.0	MS
16	HUZM531-1	4.5	MR
17	HUZM705	8.0	S
18	HUZM72	8.0	S
19	HUZM79	3.0	R
20	IAMI21	6.5	MS
21	IAMI23	4.0	MR
22	IAMI31	3.5	MR
23	IAMI34	5.5	MS
24	IAMI48	5.0	MR
25	IAMI52	9.0	S
26	IAMI54	3.5	MR
27	IAMI57	4.5	MR
28	IAMI83	4.5	MR
29	JCY11-2	2.5	R
30	JCY45	3.0	R
31	JCY6	2.0	R
32	LMDR1	2.5	R
33	LMDR18	5.5	MS
34	LMDR19	4.0	MR
35	LMDR2	3.0	R
36	LMDR20	2.5	R
37	LMDR3	2.5	R
38	LMDR4	4.0	MR
39	LMDR5	3.5	MR
40	LMDR8	3.0	R
41	PMI-PV1	5.5	MS
42	PMI-PV2	3.5	MR
43	PMI-SwT019	6.5	MS
44	PMI-SwT020	7.0	MS
45	PMI01	6.0	MS
46	PMI02	5.5	MS
47	PMI03	4.5	MR
48	PML1223	3.5	MR
49	PML368	3.0	R
50	PML902	3.0	R
51	Rcheck	7.0	MS
52	S.Check	5.0	MR
Mean		4.6	
CV		19.5	
MS error		0.8	
Df		50.0	
ntr		52.0	

Table 80. Screening of inbreed lines

S. No	Inbred Lines	MLB (1-9) DHOL	Reaction
1	CI-4TLB	4.0	MR
2	CM202TLB	5.0	MR
3	CMI164	5.5	MS
4	CMI223	5.5	MS
5	HKI161	7.0	MS
6	HUZM152	8.0	S
7	HUZM186	6.5	MS
8	HUZM221	7.5	S
9	HUZM246	5.0	MR
10	HUZM265	5.0	MR
11	HUZM36	6.0	MS
12	HUZM379	7.5	S
13	HUZM383-2	4.5	MR
14	HUZM509	6.0	MS
15	HUZM53	7.0	MS
16	HUZM531-1	6.0	MS
17	HUZM705	7.0	MS
18	HUZM72	6.5	MS
19	HUZM79	6.5	MS
20	IAMI16	6.5	MS
21	IAMI21	7.0	MS
22	IAMI23	5.5	MS
23	IAMI31	5.5	MS
24	IAMI34	5.5	MS
25	IAMI48	4.0	MR
26	IAMI54	7.0	MS
27	IAMI57	7.5	S
28	IAMI83	5.5	MS
29	JCY11-2	5.5	MS
30	JCY45	5.0	MR
31	JCY6	5.0	MR
32	LMDR1	5.5	MS
33	LMDR18	6.5	MS
34	LMDR19	7.0	MS
35	LMDR2	5.5	MS
36	LMDR20	5.0	MR
37	LMDR3	5.0	MR
38	LMDR4	5.0	MR
39	LMDR5	7.0	MS
40	LMDR8	5.0	MR
41	PMI-PV1	8.0	S
42	PMI-PV2	7.5	S
43	PMI-SwT019	5.5	MS
44	PMI-SwT020	7.0	MS
45	PMI01	7.5	S
46	PMI02	8.0	S
47	PMI03	7.0	MS
48	PML1223	6.0	MS
49	PML368	5.0	MR
50	PML902	5.0	MR
51	Rcheck	5.5	MS
52	S.Check	7.5	S
Mean		6.1	
CV		15.2	
MS error		0.9	
Df		50.0	
ntr		52.0	

Table 81. Screening of inbreed lines

S. No	Inbred Lines	PR (1-9) MAND	Reaction
1	CI-4TLB	4.0	MR
2	CM141	4.0	MR
3	CM202TLB	5.5	MS
4	CMI164	4.5	MS
5	CMI223	5.0	MS
6	HKI161	4.0	MR
7	HUZM152	5.5	MS
8	HUZM186	5.5	MS
9	HUZM221	4.0	MR
10	HUZM246	4.5	MS
11	HUZM265	4.0	MR
12	HUZM36	3.5	MR
13	HUZM379	4.5	MS
14	HUZM383-2	4.5	MS
15	HUZM509	6.0	MS
16	HUZM53	3.0	MR
17	HUZM531-1	3.0	MR
18	HUZM705	4.0	MR
19	HUZM72	6.5	S
20	HUZM79	4.0	MR
21	IAMI21	3.5	MR
22	IAMI23	3.5	MR
23	IAMI31	3.5	MR
24	IAMI34	5.0	MS
25	IAMI48	4.0	MR
26	IAMI54	3.5	MR
27	IAMI57	5.0	MS
28	IAMI83	4.0	MR
29	JCY11-2	4.5	MS
30	KDM128	4.0	MR
31	KDM351	4.5	MS
32	KDM540	4.0	MR
33	KDM545	4.0	MR
34	KMD335	4.0	MR
35	LMDR1	4.0	MR
36	LMDR18	3.5	MR
37	LMDR19	5.0	MS
38	LMDR2	5.0	MS
39	LMDR3	3.5	MR
40	LMDR4	5.5	MS
41	LMDR5	4.0	MR
42	LMDR8	3.0	MR
43	PMI-PV1	4.0	MR
44	PMI-PV2	4.0	MR
45	PMI-SwT019	5.0	MS
46	PMI-SwT020	5.0	MS
47	PMI01	3.0	MR
48	PMI02	4.0	MR
49	PMI03	4.0	MR
50	PML1223	5.0	MS
51	PML368	5.0	MS
52	Rcheck	5.0	MS
53	S.Check	4.0	MR
54	V351	5.0	MS
55	V440	4.0	MR
56	VSL27	4.5	MS
Mean		4.3	
CV		23.5	
MS error		1.0	
Df		39.0	
ntr		56.0	

Table 82. Screening of inbreed lines

S. No	Inbred Lines	TLB (1-9) DHAR	Reaction
1	CI-4TLB	5.8	MS
2	CM202TLB	5.5	MS
3	CMI164	3.8	MR
4	CMI223	4.3	MR
5	HKI161	8.0	S
6	IAMI16	5.0	MR
7	IAMI21	4.8	MR
8	IAMI23	2.5	R
9	IAMI31	6.0	MS
10	IAMI34	4.0	MR
11	IAMI48	7.5	S
12	IAMI52	4.8	MR
13	IAMI54	5.3	MS
14	IAMI57	5.0	MR
15	IAMI83	3.5	MR
16	KDM128	8.0	S
17	KDM351	6.8	MS
18	KDM540	8.0	S
19	KDM545	8.0	S
20	KMD335	8.0	S
21	KMD347	8.0	S
22	LMDR18	6.5	MS
23	LMDR2	3.0	R
24	LMDR3	4.0	MR
25	LMDR4	9.0	S
26	LMDR5	8.5	S
27	LMDR8	4.0	MR
28	PMI-PV1	8.5	S
29	PMI-PV2	7.3	S
30	PMI-SwT019	8.0	S
31	PMI-SwT020	7.5	S
32	PMI01	5.3	MS
33	PMI02	5.0	MR
34	PMI03	4.3	MR
35	Rcheck	9.0	S
36	S.Check	7.0	MS
Mean		6.1	
CV		16.9	
MS error		1.1	
Df		35.0	
ntr		36.0	

Table 83. Screening of inbreed lines

S. No	Inbred Lines	TLB (1-9) MAND*	Reaction
1	CI-4TLB	5.0	
2	CM202TLB	4.5	
3	CMI164	4.0	
4	CMI223	7.5	
5	HKI161	6.0	
6	IAMI16	5.0	
7	IAMI21	5.5	
8	IAMI23	3.0	
9	IAMI31	5.5	
10	IAMI34	4.0	
11	IAMI48	7.0	
12	IAMI52	9.0	
13	IAMI54	6.0	
14	IAMI57	7.5	
15	IAMI83	6.0	
16	KDM128	5.5	
17	KDM351	4.5	
18	KDM540	4.5	
19	KDM545	5.5	
20	KMD335	6.5	
21	KMD347	7.0	
22	LMDR18	5.0	
23	LMDR2	6.0	
24	LMDR3	4.0	
25	LMDR4	6.5	
26	LMDR5	8.0	
27	LMDR8	4.0	
28	PMI-PV1	9.0	
29	PMI-PV2	6.5	
30	PMI-SwT019	7.0	
31	PMI01	4.0	
32	PMI02	4.0	
33	PMI03	4.5	
34	Rcheck	6.5	
35	S.Check	5.0	
Mean		5.7	
CV		33.6	
MS error		3.6	
Df		26.0	
ntr		35.0	

*The data are not considerd where cv exceed 30 %

Table 84. Screening of inbreed lines

S. No	Inbred Lines	BLSB (1-9) KARN	Reaction
1	CI-4TLB	4.6	MR
2	CM141	5.5	MS
3	CM202TLB	6.6	MS
4	CMI164	5.1	MS
5	CMI223	3.0	R
6	HKI161	5.0	MR
7	IAMI16	5.6	MS
8	IAMI21	6.2	MS
9	IAMI23	4.7	MR
10	IAMI31	5.9	MS
11	IAMI34	5.5	MS
12	IAMI48	4.1	MR
13	IAMI54	3.6	MR
14	IAMI57	6.4	MS
15	IAMI83	4.5	MR
16	LMDR2	3.6	MR
17	PMI-PV1	5.2	MS
18	PMI-PV2	5.7	MS
19	PMI-SwT019	5.2	MS
20	PMI-SwT020	5.7	MS
21	PMI01	5.3	MS
22	PMI02	3.6	MR
23	PMI03	4.6	MR
24	Rcheck	5.4	MS
25	S.Check	5.1	MS
26	V351	4.7	MR
27	V440	3.9	MR
28	VSL27	6.3	MS
Mean		5.0	
CV		22.4	
MS error		1.3	
Df		27.0	
ntr		28.0	

Table 85. Screening of inbreed lines

S. No	Inbred Lines	BLSB (1-9) PANT	Reaction
1	CI-4TLB	6.7	MS
2	CM202TLB	6.5	MS
3	CMI164	5.5	MS
4	CMI223	6.0	MS
5	HKI161	6.4	MS
6	IAMI16	6.8	MS
7	IAMI21	8.5	S
8	IAMI23	6.0	MS
9	IAMI31	7.0	MS
10	IAMI34	7.1	S
11	IAMI48	6.9	MS
12	IAMI52	6.0	MS
13	IAMI54	6.2	MS
14	IAMI57	6.7	MS
15	IAMI83	7.1	S
16	LMDR2	5.9	MS
17	LMDR4	6.3	MS
18	LMDR5	6.4	MS
19	LMDR8	6.6	MS
20	PMI-PV1	6.2	MS
21	PMI-PV2	7.1	S
22	PMI-SwT019	6.4	MS
23	PMI-SwT020	7.1	S
24	PMI01	7.5	S
25	PMI02	6.5	MS
26	Rcheck	7.0	MS
27	S.Check	7.7	S
28	V351	6.6	MS
29	V440	6.0	MS
Mean		6.6	
CV		13.1	
MS error		0.8	
Df		27.0	
ntr		29.0	

Table 86. Screening of inbreed lines

S. No	Inbred Lines	C. Rot (1-9) LUDH	Reaction
1	CI-4TLB	4.2	MR
2	CM202TLB	3.1	MR
3	CMI164	3.1	MR
4	CMI223	4.0	MR
5	HKI161	6.2	MS
6	IAMI16	3.9	MR
7	IAMI21	5.2	MS
8	IAMI23	4.1	MR
9	IAMI31	4.7	MR
10	IAMI34	2.8	R
11	IAMI48	3.3	MR
12	IAMI54	4.3	MR
13	IAMI57	6.4	MS
14	IAMI83	3.9	MR
15	JCY11-2	3.3	MR
16	JCY45	4.1	MR
17	JCY6	5.4	MS
18	LMDR1	3.6	MR
19	LMDR18	5.0	MR
20	LMDR19	4.0	MR
21	LMDR2	2.9	R
22	LMDR20	3.3	MR
23	LMDR3	4.4	MR
24	LMDR4	3.7	MR
25	LMDR5	4.3	MR
26	LMDR8	3.5	MR
27	PMI-PV1	5.9	MS
28	PMI-PV2	5.4	MS
29	PMI-SwT019	3.5	MR
30	PMI-SwT020	3.9	MR
31	PMI01	5.4	MS
32	PMI02	3.6	MR
33	PMI03	5.8	MS
34	PML1223	8.0	S
35	PML368	4.1	MR
36	PML902	7.0	MS
37	Rcheck	6.2	MS
38	S.Check	5.2	MS
Mean		4.4	
CV		28.1	
MS error		1.5	
Df		35.0	
ntr		38.0	

Table 87. Screening of inbreed lines

S. No	Inbred Lines	C. Rot (1-9) COIM	Reaction
1	CI-4TLB	4.0	MR
2	CM202TLB	4.9	MR
3	CMI164	5.0	MR
4	CMI223	6.2	MS
5	HKI161	4.0	MR
6	IAMI16	4.4	MR
7	IAMI21	4.4	MR
8	IAMI23	4.3	MR
9	IAMI31	6.6	MS
10	IAMI34	5.0	MR
11	IAMI48	5.2	MS
12	IAMI54	4.7	MR
13	IAMI57	6.0	MS
14	IAMI83	4.2	MR
15	JCY11-2	5.3	MS
16	JCY45	4.4	MR
17	JCY6	4.2	MR
18	LMDR1	7.4	S
19	LMDR18	4.6	MR
20	LMDR19	4.4	MR
21	LMDR2	5.9	MS
22	LMDR20	4.7	MR
23	LMDR3	4.2	MR
24	LMDR4	4.8	MR
25	LMDR5	4.4	MR
26	LMDR8	4.6	MR
27	PMI-PV1	6.0	MS
28	PMI-PV2	6.7	MS
29	PMI-SwT019	6.4	MS
30	PMI-SwT020	4.2	MR
31	PMI01	5.0	MR
32	PMI02	5.1	MS
33	PMI03	4.0	MR
34	PML1223	4.0	MR
35	PML183	6.0	MS
36	PML368	4.9	MR
37	PML902	4.4	MR
38	Rcheck	5.7	MS
39	S.Check	5.2	MS
Mean		5.0	
CV		22.4	
MS error		1.3	
Df		35.0	
ntr		39.0	

Table 88. Screening of inbreed lines

S. No	Inbred Lines	C. Rot (1-9) HYDE	Reaction
1	CI-4TLB	3.7	MR
2	CM202TLB	3.7	MR
3	CMI164	2.6	R
4	CMI223	2.8	R
5	HKI161	3.6	MR
6	IAMI16	4.0	MR
7	IAMI21	4.0	MR
8	IAMI23	3.4	MR
9	IAMI31	5.8	MS
10	IAMI34	3.9	MR
11	IAMI48	3.3	MR
12	IAMI52	2.4	R
13	IAMI54	5.3	MS
14	IAMI57	3.0	R
15	IAMI83	1.8	R
16	JCY11-2	2.3	R
17	JCY45	3.0	R
18	JCY6	3.0	R
19	LMDR1	2.7	R
20	LMDR18	4.0	MR
21	LMDR19	4.9	MR
22	LMDR2	2.6	R
23	LMDR20	3.3	MR
24	LMDR3	2.1	R
25	LMDR4	4.5	MR
26	LMDR5	2.9	R
27	LMDR8	2.8	R
28	PMI-PV1	4.4	MR
29	PMI-PV2	4.8	MR
30	PMI-SwT019	5.3	MS
31	PMI-SwT020	3.0	R
32	PMI01	4.0	MR
33	PMI02	3.8	MR
34	PMI03	3.3	MR
35	PML1223	3.9	MR
36	PML183	3.1	MR
37	PML368	3.2	MR
38	PML902	3.5	MR
39	Rcheck	2.2	R
40	S.Check	5.5	MS
Mean		3.5	
CV		24.6	
MS error		0.7	
Df		37.0	
ntr		40.0	

Table 89. Screening of inbreed lines

S. No	Inbred Lines	C. Rust (1-9) DHAR*	Reaction
1	CI-4TLB	4.0	
2	CM141	1.3	
3	CM202TLB	1.8	
4	CMI164	1.8	
5	CMI223	5.8	
6	HKI161	3.5	
7	IAMI16	1.3	
8	IAMI21	2.8	
9	IAMI23	4.3	
10	IAMI31	1.3	
11	IAMI34	1.8	
12	IAMI48	3.0	
13	IAMI52	1.8	
14	IAMI54	6.3	
15	IAMI57	1.8	
16	IAMI83	1.3	
17	JCY11-2	2.0	
18	JCY45	2.0	
19	JCY6	3.5	
20	LMDR1	3.3	
21	LMDR18	1.8	
22	LMDR19	3.8	
23	LMDR2	3.0	
24	LMDR3	1.9	
25	LMDR4	1.5	
26	LMDR5	1.8	
27	LMDR8	5.0	
28	PMI-PV1	3.3	
29	PMI-PV2	3.5	
30	PMI-SwT019	3.0	
31	PMI-SwT020	2.0	
32	PMI01	1.5	
33	PMI02	5.5	
34	PMI03	1.5	
35	PML1223	4.0	
36	PML368	2.0	
37	Rcheck	1.8	
38	S.Check	3.3	
39	V351	2.0	
40	V440	1.8	
41	VSL27	1.8	
Mean		2.7	
CV		57.7	
MS error		2.4	
Df		40.0	
ntr		41.0	

Table 90. Screening of inbreed lines

S. No	Inbred Lines	BSR (%) PANT*	Reaction
1	CI-4TLB	32.2	
2	CM141	100.0	
3	CM202TLB	50.0	
4	CMI164	75.0	
5	CMI223	20.0	
6	HKI161	100.0	
7	IAMI16	50.0	
8	IAMI21	25.0	
9	IAMI23	71.4	
10	IAMI31	68.8	
11	IAMI34	100.0	
12	IAMI48	50.0	
13	IAMI52	37.5	
14	IAMI54	41.7	
15	IAMI57	58.8	
16	IAMI83	10.0	
17	LMDR2	34.0	
18	PMI-PV1	37.5	
19	PMI-PV2	25.0	
20	PMI-SwT019	55.6	
21	PMI-SwT020	0.0	
22	PMI01	16.7	
23	PMI02	0.0	
24	PMI03	0.0	
25	Rcheck	50.0	
26	S.Check	0.0	
27	V351	100.0	
28	V440	75.0	
29	VSL27	62.5	
Mean		45.8	
CV		75.1	
MS error		1181.1	
Df		21.0	
ntr		29.0	

*The data are not considerd where cv exceed 30 %

Table 91. Screening of inbreed lines

S. No	Inbred Lines	SDM (%) MAND	Reaction
1	CI-4TLB	81.7	S
2	CM141	100.0	S
3	CM202TLB	100.0	S
4	CMI164	100.0	S
5	CMI223	100.0	S
6	HKI161	100.0	S
7	IAMI21	100.0	S
8	IAMI23	75.0	S
9	IAMI31	100.0	S
10	IAMI34	50.0	MS
11	IAMI48	80.0	S
12	IAMI52	100.0	S
13	IAMI54	100.0	S
14	IAMI57	100.0	S
15	IAMI83	100.0	S
16	KDM128	93.8	S
17	KDM351	100.0	S
18	KDM540	100.0	S
19	KDM545	75.0	S
20	KMD335	100.0	S
21	KMD347	100.0	S
22	LMDR2	100.0	S
23	LMDR3	33.3	MS
24	LMDR4	100.0	S
25	LMDR5	83.4	S
26	LMDR8	0.0	R
27	PMI-PV1	100.0	S
28	PMI-PV2	92.9	S
29	PMI-SwT019	75.0	S
30	PMI-SwT020	100.0	S
31	PMI01	100.0	S
32	PMI02	100.0	S
33	PMI03	75.0	S
34	PML1223	0.0	R
35	PML368	50.0	MS
36	Rcheck	100.0	S
37	S.Check	100.0	S
38	V351	100.0	S
39	V440	100.0	S
40	VSL27	100.0	S
Mean		87.0	
CV		22.5	
MS error		384.1	
Df		30.0	
ntr		40.0	

Table 92. Assessment of avoidable yield losses due to TLB at Bajaura

Location	Treatment	Disease score	PDI	Yield (q/ha)	Percent Avoidable Yield loss
Bajaura	Protected	3.0	33.7	54.3	20.13
	Unprotected	7.0	77.6	45.2	

Note: Each value is the mean of 10 replications

Table 93 Assessment of avoidable yield losses due to MLB at different locations

Location	Treatment	Disease score	PDI	Yield (q/ha)	Percent loss in yield
Dhaulakuan	Protected	2.05	22.84	25.07	24.81
	Unprotected	3.77	41.97	18.87	
Kalyani	Protected	6.08	-	48.35	22.41
	Unprotected	6.99	-	37.11	
Pantnagar	Protected	-	26.91	46.25	24.13
	Unprotected	-	63.70	35.09	
Udaipur	Protected	11.56	12.77	35.03	15.13
	Unprotected	35.90	38.77	30.45	

Note: Each value is the mean of 10 replications

Table 94. Maize diseases in trap nursery trial at different locations of the country

S.No	Genotype	Maydis Leaf Blight													PFSR/ C.ROT				
		ALMO	DHAU	IMPH	DELH	KARN	LUDH	PANT	DHOL	KALY	PEDD	UDAI	GODH	RAHU	HYDE	DELH	LUDH	UDAI	COIM
1	CM 400	2.0	8.0	-	2.0	8.5	7.0	5.0	8.0	3.1	3.0	1.5	6.5	4	4.0	60	8.0	3.5	9
2	CM 500	2.0	4.5	2	6.0	6	5.0	4.0	5.5	3.7	3.0	3.5	5.0	2	6.0	25	4.0	4.5	7.3
3	CM 501	1.0	5.0	-	3.0	6	4.0	2.0	4.5	2.2	3.0	4	6.0	3	7.1	0	4.0	4.2	9
4	CM 600	2.0	6.5	-	3.0	8.5	7.0	7.5	8.0	3.5	2.0	2.5	4.5	5	8.0	20	6.1	5.8	9
5	BML 6	2.0	-	-	3.0	3.5	4.0	-	9.0	3.1	2.0	3.5	3.5	-	2.5	50	3.0	4.2	-
6	BML 7	1.0	3.0	-	2.0	4.5	3.0	1.0	4.5	1.8	5.0	4	4.5	-	3.1	15	3.8	4	4.2
7	Surya	1.0	4.5	2	3.0	4.5	6.0	2.5	5.5	2.3	4.0	6	6.0	-	4.8	0	4.8	3	5.3
8	Early Composite	2.0	4.5	-	2.0	6.5	6.0	1.5	7.0	2.0	3.0	5.5	5.0	-	7.0	25	3.5	3.2	9
9	LM 14	1.0	4.5	-	2.0	5	4.0	1.0	5.0	1.6	2.0	4.5	4.0	4	4.5	50	3.9	1.8	-
10	IIMR SBT POOL	2.0	7.0	-	-	6.5	5.0	2.0	6.0	3.0	3.0	5.5	3.0	-	4.3	-	4.5	1.8	9

Contd…

Table 94. Maize diseases in trap nursery trial at different locations of the country.

S.No	Genotype	Turcicum Leaf Blight											C. RUST				BSR (%)		
		ALMO	DHAU	IMPH	KALY	PEDD	MAND	BAJA	DHAR	GODH	RAHU	COIM	IMPH	PEDD	UDAI	RAHU	IMPH	LUDH	PANT
1	CM 400	3.0	-	7.7	7.6	4.0	8.0	5.5	9.0	6.0	2	-	-	1.0	2.0	-	7.7	0	7.7
2	CM 500	2.0	-	4.8	7.0	3.0	4.0	0.0	3.0	5.0	3	3	-	2.0	1.5	3	-	0	16.7
3	CM 501	1.0	-	3.8	4.8	3.0	3.0	0.0	2.5	6.5	-	1	4	1.0	2.5	-	7.1	0	25.0
4	CM 600	4.0	-	9.0	8.1	1.0	7.0	3.0	9.0	4.5	-	-	3	1.0	2.5	-	-	0	9.5
5	BML 6	2.0	-	4.4	4.6	4.0	5.0	4.0	3.0	3.0	-	-	-	1.0	3.0	-	-	0	-
6	BML 7	1.0	-	4.9	5.0	4.0	2.0	3.0	3.0	4.5	3	2	-	1.0	1.5	4	8.3	0	-
7	Surya	3.0	-	4.2	5.4	3.0	6.0	0.0	3.5	3.5	6	-	-	1.0	1.5	4	7.7	0	-
8	Early Composite	2.0	-	8.2	6.0	1.0	8.0	6.0	9.0	4.0	3	-	-	1.0	2.5	-	-	0	-
9	LM 14	1.0	-	3.6	2.8	2.0	4.0	7.3	2.0	5.0	-	-	-	1.0	2.0	3	6.6	0	28.6
10	IIMR SBT POOL	1.0	-	3.8	4.9	1.0	3.0	1.5	4.0	6.0	4	-	3	1.0	1.5	-	-	9.35	-

Contd….

Table 94. Maize diseases in trap nursery trial at different locations of the country.

S.No	Genotype	BLSB								CLS							STALK ROT(%)	P. RUST	BS
		DHAU	IMPH	KARN	LUDH	PANT	PEDD	UDAI	GODH	DHAU	IMPH	KARN	PANT	UDAI	HYDE	GODH	KALY	MAND	DHAU
1	CM 400	5.5	-	3.0	4.0	3.0	3.0	1	3.0	4	-	3.5	-	3.5	2.0	3.0	-	3.0	2
2	CM 500	3.0	-	4.5	3.0	2.5	1.0	2.5	4.0	2	-	3.5	-	4.5	2.0	4.0	-	3.0	1
3	CM 501	3.5	-	3.0	2.0	2.0	3.0	1	3.0	5	-	2.5	25	4	Traces	3.0	-	2.0	6
4	CM 600	5.5	-	4.5	6.0	4.0	4.0	0	4.0	3.5	-	4.5	2	6.5	2.0	4.0	-	6.0	2.5
5	BML 6	-	-	3.5	2.0	-	5.0	0	4.0	-	5	3	-	6	Traces	5.0	-	2.0	-
6	BML 7	6.5	-	4.5	2.0	1.0	6.0	0	5.0	4	-	4.5	1	6.5	Traces	3.0	4.65%	1.0	1.5
7	Surya	6.5	2	4.5	6.0	2.0	4.0	2.5	4.0	4.5	-	4.5	2	5.5	4.0	4.0	-	3.0	5
8	Early Composite	5.0	-	4.5	6.0	3.0	4.0	2	6.0	4.5	-	3.5	2	4.5	3.0	5.0	4.54%	4.0	3.3
9	LM 14	4.0	-	3.0	2.0	1.0	3.0	1	4.0	5	-	3	-	4	Traces	6.0	4.00%	2.0	3
10	IIMR SBT POOL	6.5	-	3.5	5.0	2.5	3.0	1.5	5.0	3.5	-	2.5	2	2.5	4.0	5.0	4.00%	3.0	4

Table 95. Disease survey and surveillance in different maize growing areas of Himachal Pradesh (Bajaura)

S.No.	District	Crop stage	Diseases				
			TLB	BLSB	MLB	BS	CLS
1	Kullu	Silking to Dough	M-H	M	M	M	L
2	Mandi	Silking to Dough	M-H	H	M	M-H	L
3	Hamirpur	Silking to Dough	M	M	M	M	L
4	Bilaspur	Silking to Dough	M	H	M	M	L

Disease Intensity: T- Traces; L- Low; M- Medium; H- High

Table 96. Disease survey and surveillance in different maize growing areas of Himachal Pradesh (Dhaulakuan)

S.NO	**VILLAGE**	**BLSB***	**CLS**	**BS**	**BSR**	**TLB**	**MLB**
1.	Rampur	M-H	L	T	L-M	-	L
2.	Khamba Nagar	M-H	T	T	L-M	-	M
3.	Parduni	H	L	L-M	L-M	-	M
4.	Kotli	M	L	-	L	-	L
5.	Kolar	M-H	T	T	L-M	-	M
6.	Johro	M	L	L	L	-	M
7.	Ftehpur	M	L	-	L	-	-
8.	Sainwala	H	L	L	H	-	H
9.	Matak Majri	M	M	L	M	-	M
10.	Surajpur	M	-	L-M	L-M	-	-
11.	Johro	M	L	L	L	-	M
12.	Ftehpur	L-M	L	-	L	-	-
13.	Sainwala	H	L	L	M	-	H
14.	Nihalgarh	H	L	L	M	-	H

***BLSB incidence was more in early sown crop**

Disease intensity: T - Traces; L - Low; M - Medium; H - High

Table 97. Disease survey and surveillance in different maize growing areas of Bihar (Dholi)

No	District	Place	Crop stage	Foliar diseases (Disease Score and Intensity)				
				MLB (1-9)	MLB (PDI)	TLB (1-9)	BLSB (1-9)	BSR (1-9)
1	Samastipur	Ladaura	Knee high and grain filling stage	5	**55.55**	Trace	-	Trace
		Bakhari-Barai (Rajapakar)	Knee high and grain filling stage	6	66.66	Trace	-	-
		Faridpur (Rajapakar)	Knee high and grain filling stage	4	44.44	Trace	-	-
2	Muzaffarpur	Panchrukhi (Motipur)	Knee high and grain filling stage	7	**77.77**	Trace	-	Trace
3	Begusarai	Nurullahpur (Daulatpur)	Knee high and grain filling stage	4	44.44	Trace	-	-
		Daulatpur	Knee high and grain filling stage	5	**55.55**	Trace	-	Trace
		Chakawa (khodawanpur)	Knee high and grain filling stage	4	44.44	Trace	-	-
		Chakawa (Phaphot)	Knee high and grain filling stage	5	**55.55**	Trace	-	-
		Korjana (Basahi)	Knee high and grain filling stage	6	66.66	Trace	-	Trace
4	Vaisali	Faridpur (Rajapakar)	Knee high and grain filling stage	5	**55.55**	Trace	-	-
		Rampur Bhagel (shahdei (Bujurag)	Knee high and grain filling stage	6	66.66	Trace	-	-

PDI = Percent Disease Index.

Table 98. Disease survey and surveillance in different maize growing areas of Gujarat (Godhra)

S. No.	Locations	Grain filling stage	Dry silking stage or maturity 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	Yes	No	4	44.4	4	44.4	5	55.5	4	44.4	**MLB :** 14.08.19 **TLB :** 16.08.19 **CLS :** 20.08.19 **BLSB :**19.08.19	**MLB:**24.08.19 to 04.10.19 **TLB :**25.08.19 to 24.09.19 **CLS :**23.08.19 to 30.09.19 **BLSB :**22.08.19 to 27. 09.19
2.	Khanpur	Yes	No	4	44.4	5	55.5	6	66.6	5	55.5		
3.	Santrampur	Yes	No	4	44.4	4	44.4	5	55.5	6	66.6		
4.	Dahod	Yes	No	2	22.2	5	55.5	6	66.6	4	44.4		
5.	Garbada	Yes	No	3	33.3	5	55.5	4	44.4	3	33.3		
6.	Chhotaudipur	Yes	No	3	33.3	5	55.5	5	55.5	5	55.5		
7.	Pavijetpur	Yes	No	3	33.3	4	44.4	4	44.4	6	66.6		
8.	Amirgadh	Yes	No	3	33.3	4	44.4	4	44.4	3	33.3		
9.	Khedbrahma	Yes	No	5	55.5	5	55.5	6	66.6	4	44.4		
10.	Bhiloda	Yes	No	5	55.5	4	44.4	5	55.5	3	33.3		
11.	Virpur	Yes	No	4	44.4	5	55.5	3	33.3	6	66.6		
12.	Sonpur	Yes	No	5	55.5	6	66.6	3	33.3	4	44.4		
13.	Idar	No	Yes	3	33.3	3	33.3	3	33.3	3	33.3		
14.	Datta	No	Yes	3	33.3	3	33.3	3	33.3	3	33.3		
15.	Ambaji	No	Yes	3	33.3	4	44.4	2	22.2	3	33.3		
16.	Palanpur	No	Yes	3	33.3	4	44.4	3	33.3	3	33.3		
17.	Lunavada	No	Yes	3	33.3	4	44.4	4	44.4	2	22.2		
18.	Modasa	No	Yes	3	33.3	4	44.4	2	22.2	3	33.3		

Table 99. Disease survey and surveillance in different maize growing areas of Telangana (Hyderabad)

Crop Stage	Telangana State/ No of field visited	Pest/ disease	Intensity*
Vegetative stage (July to August)	36 fields	Erwinia stalk rot	T
Flowering to Maturity (September to October)	40 fields	Erwinia stalk rot Charcoal rot	L to M

****Disease intensity:T - Traces;L - Low; M - Medium;H - High***

Table 100. Disease survey and surveillance in different maize growing area of Manipur (Imphal)

District	**Stage of crop**	**Foliar Diseases (Disease Rating on 1-9 Scale)**					**Smut**		**Rust**		**Stalks rot**		**Ear rots at harvest**
Churchanpur district		**TLB**	**BLSB**	**MLB**	**BS**	**CLS**	**Corn smut**	**head smut**	**Common rust**	**Polysora rust**	**Brown stalk rot**	**PFSR**	
Siden Block	Harvesting stage	6.8	5.0	-	3.0	-	T	-	5.0	3.0	T	-	T
Saidan	Grain filling stage	5.5	4.0	-	2.0	3.0	T	-	5.0	-	T	T	-
Saikot	Dough stage	6.4	5.0	3.0	3.0	-	T	-	3.0	-	-	-	-
Henglep	Grain filling stage	6.2	5.4	-	2.0	-	T	-		-	-	-	-
Imphal West													
Khongampat Mayai Leikai	knee high stage and Silking stage	3.9	2.0		2.0	-	T	-	3.0	-	-	T	-
Kameng Sabal Leikai	Silking stage	4.6	2.0		2.0		T	-	3.0	-	-		-
Kanglatombi	Dough stage	5.9	4.0		3.0	3.0	Low	T	6.0	4.0	T	T	T
Lamsang	Grain filling stage	6.0	4.0	3.0	-	-	Low	-	4.0	-	T	-	-

Disease intensity: T-Traces; L-Low; M-Medium; H-High

Table 101. Disease survey and surveillance in different maize growing areas of West Bengal (Kalyani)

Sl. No.	Place / District	Crop stage	Variety	MLB score, reaction& incidence	TLB score, reaction& incidence	CLS score, reaction& incidence	Rust score, reaction & incidence	BLSB score, reaction & incidence	FSR score, reaction & incidence
1	Kayakhata/Alipurduar	Hard dough	DKC 9081	3.0; low; 96%	2.6, low, 16%	-	-	-	
2	Tatpara / Alipurduar	Soft dough	DKC 9081	1.7, low, 40%	1.8, low, 12%	-	-	-	
3	Latapata/ Coochbehar	Maturity	CP 444	3.2, low, 60%	2.6, low, 24%	-	-	-	
4	Falakata/ Alipurduar	Maturity	CP 444	2.8, low, 40%	1.8, low, 18%	-	-	-	
5	Piplan, Raiganj, Uttar Dinajpur	Dough	Syngenta 7720	-	6.0, Medium	3.0, low	-	-	4.0, Medium
6	Godhol, Dakshin Dinajpur	Dough	Avani-5994	-	5.0, Medium	2.0, low	-	-	5.0, Medium
7	Teesta Valley, Darjeeling	Maturity	Payeli (Local)	1.0, low	3.0; low	-	6.0; Medium	-	-
8	Takdah, Darjeeling	Soft Dough	Kaveri 50	7.0, High	3.0; low	-	-	-	-
9	Gairibus, Kalimpong	Soft Dough	Sathiya (Local)	1.0, Low	2.0, Low	-	3.0, Low	-	-
10	Dalgaon, Kalimpong	Hard Dough	Seti (local)	1.0, Low	4.0, Medium	-	6.0, Medium	-	-
11	Kumai, Kalimpong	Maturity	Payeli & Seti (Local)	-	6.0, Medium	-	9.0, High	-	-
12	Singha, 24 PGS(N)	Soft Dough	Sugar 75(Sweet Corn)	4.0, Medium	2.0, Low	3.0, Low	5.0, Medium	-	-

Table 102. Disease survey and surveillance in different maize growing areas of Haryana (Karnal)

Sr.No	Crop Stage	State/District No of field visited	No of field visited	Foliar Diseases		
				MLB	BLSB	CLS
1	Dough stage	Karnal	8	L-M*	M	L
2	Dough stage	Kurukshetra	8	L-M	L-M	L
3	Cob formation stage	Sonipat	5	L-M	L	T
4	Hard dough stage	Ambala	8	M	L	T
5	Hard dough stage	Panchkula	10	L	L	T
6	Cob formation stage	Yamunanagar	6	M	L-M	T

***Disease intensity: T - Traces; L - Low; M - Medium; H – High**

Table 103. Disease survey and surveillance in different maize growing areas of Punjab (Ludhiana)

S.No.	District	Crop Stage	Foliar diseases				Stalk rots		Ear rots at harvest
			MLB	BLSB	CLS	BLS	BSR	PFSR	
1.	Shaheed Bhagat Singh Nagar	Knee high and grain filling stage	Low to Moderate	Moderate	-	-	Low	Low	-
2.	Hoshiarpur	Knee high and grain filling stage	Moderate	Moderate	-	Low	Moderate	Low	Low
3.	Ludhiana	Knee high and grain filling stage	Moderate	Moderate	Low	Low	Low	Moderate	Low
4.	Rupnagar	Knee high and grain filling stage	Low to Moderate	Moderate	-	-	Low	Low	-
5.	Gurdaspur	Knee high and grain filling stage	Moderate	Moderate	-	-	Low	Low	Low
6.	Jalandhar	Knee high and grain filling stage	Low to Moderate	Low to moderate	-	-	Low	Low to Moderate	-
7.	Pathankot	Knee high and grain filling stage	Moderate	Moderate	-	Low	Low	Low to Moderate	-

Table 104. Disease survey and surveillance in different maize growing areas of Southern Karnataka (Mandya)

SI. No.	District/ place	No of field surveyed	Crop stage	Foliar disease severity(PDI)					BLSB (%)	
				TLB (%)	CLS (%)	MLB (%)	P.Rust (%)	SDM (%)		PFSR Incidence (%)
1	**Chamarajnagar**	10	Silking-Grain filling stage	70	20	30	40	25	-	-
2	**Hassan**	20	Silking-Grain filling stage	80	30	20	45	40	-	-
3	Chikkaballapur	12	Grain filling stage	30	20	20	20	15	-	30
4	**Mandya**	18	Silking-Grain filling stage	60	25	40	45	45	-	20
5	Mysuru	10	Grain filling stage	50	10	10	35	30		-

Table 105. Disease survey and surveillance in different maize growing areas of Uttarakhand (Pantnagar)

District (Place)	Crop Stage	Foliar Diseases (Disease Rating on 1-9 Scale)					Stalk Rot (% Incidence)	
		BLSB	MLB	TLB	CLS	BS	BSR	Fusarium Stalk Rot
U. S. Nagar (Pantnagar)	Seedling to maturity	8	8	0	4	3	15	8
Haridwar	Milk Stage	6	4	0	1	1	10	6
Dehradun	Milk Stage	7	5	2	0	0	0	0
Tehri	Milk Stage	5	5	0	1	1	2	1
Nainital	Silking to maturity	5	3	0	3	1	5	15
Champawat	Milk Stage	1	2	5	0	0	0	0
Pithoragarh	Milk Stage	0	1	6	0	0	0	0

Table 106. Disease survey and surveillance in different maize growing areas of Andhra Pradesh (Peddapuram)

S. NO.	PLACE	MONTH	CROP STAGE	DISEASE OBSERVED	DISEASE INTENSITY
1	KATRAVULAPALLI	July	Vegetative Stage	TLB	M
		August	Flowering stage	BLSB	S
		October	Grain Hardening Stage	TLB	S
2	JAGAMPET	July	Vegetative Stage	MLB	M
		September	Cob Formation Stage	TLB	S
3	KOVVUR	July	Vegetative Stage	TLB	M
		September	Cob Formation Stage	BLSB	S
4	TALLAPUDI	July	Vegetative Stage	TLB	M
		September	Cob Formation Stage	BLSB	S
5	MAREDUMILLI	July	Vegetative Stage	TLB	M
		August	Flowering stage	BLSB	M
6	SEETHANAGARAM	August	Vegetative Stage	MLB	M
		September	Flowering stage	BLSB	M
7	DEVARAPALLI	July	Vegetative Stage	TLB	M
		August	Flowering stage	BLSB	M
		October	Grain Hardening Stage	TLB	S
8	JANGAREDDGUDEM	July	Vegetative Stage	TLB	M
		August	Flowering stage	BLSB	M
		October	Grain Hardening Stage	TLB	S
9	GOPLAPURAM	August	Vegetative Stage	TLB	M
		September	Flowering stage	BLSB	M
		October	Cob Formation Stage	Rust	T
10	KOYALAGUDEM	September	Flowering stage	BLSB	S
		October	Cob Formation Stage	MLB,BLSB	M,S

Table 107. Disease survey and surveillance in different maize growing areas of Maharashtra (Rahuri)

Crop Stage	District	No of field visited	Diseases	Disease Intensity
Pre flowering - Grain filling	Ahmednagar	22	Turcicum leaf blight, Maydis leaf blight, rust	Traces-low
Flowering- Dough stage	Nasik	10	Turcicum leaf blight, Maydis leaf blight	Traces
Flowering- Dough stage	Dhule	08	Turcicum leaf blight, Maydis leaf blight	Traces
Flowering- Dough stage	Jalgaon	15	Turcicum leaf blight, Maydis leaf blight	Traces

* Disease intensity – *Traces <5%; L – Low 5-10%; M – Medium 10-50%; H – High >50%*

Table 108. Survey and surveillance of SDM in Southern (Karnataka Mandya)

S. No	Farmer	Location	Taluk	District	Per cent disease incidence
1	Vasanth	Hulikere	Pandavapura	Mandya	**27**
2	Kumar	Bellale	Pandavapura	Mandya	**33**
3	Swamy	Shettihalli	Pandavapura	Mandya	**57**
4	Shivakumar	Beladakuppe	Pandavapura	Mandya	**41**
5	Chandra	Chikka koppalu	Mandya	Mandya	**62**
6	Lokesh	Kagepura	Malavalli	Mandya	**05**
7	Kanatti Veerabhadra	Dudda	Mandya	Mandya	**31**
8	Prakash	M Hatna	Mandya	Mandya	**25**
9	Karigowda	Bettahalli	Mandya	Mandya	**13**
10	Timmegowda	Haleebedu	Pandavapura	Mandya	**10**
11	Chandrashekar S/o Rudre gowda	Bellale	Pandavapura	Mandya	**52**
12	Sannahaide gowda S/o Krishne gowda	Bellale	Pandavapura	Mandya	**62**
13	Nagaraj	Bellale	Pandavapura	Mandya	**11**
14	Boregowda	Mahadeshwara pura	Pandavapura	Mandya	**22**
Mean incidence of disease					**32.21**

Table 109. Disease survey and surveillance in different maize growing areas of Rajasthan (Udaipur)

S.No	Place	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.	Dhariawad	18	Maize local	5.00	3.0	3.5	6.0	1.5	4.0	2.5	-	Mod.	-	-	-
2.	Lakadwas	13	Maize Local (Yellow/white)	3.0	5.0	2.0	5.0	1.5	3.5	2.5	-	Severe at knee high stage.	-	-	Flag smut Mod.
3.	Kharwa chanda	14	Maize local	15.0	2.0	-	-	-	5.5	3.5	-	-	-	-	-
4.	Kheroda	23	Maize Local	5.0	2.0	2.5	-	2.5	2.5	1.5	-	Mod.	-	-	-
5.	Mavli	18	Maize Local (Yellow/white)	-	2.5	-	-	-	2.0	2.0	-	Mod.	-	-	-
6.	Undri	7	DHM-117	0.0	1.0	2.0	-	-	1.5	1.0	-	Mod.	-	-	-
7.	Dabok	9	Maize Local	-	2.0	1.0	-	2.5	2.5	2.0	-	Tr. To Mod.	-	-	-
8.	Lakadwas	13	Sweet Corn	10.0	2.5	3.5	-	-	2.0	1.0	-	-	-	-	-
9.	Bhatewar	10	Maize Local	-	1.5	-	-	2.0	1.5	2.0	-		-	-	Flag smut Mod.
10.	Bheel khera	9	Maize Local (Yellow/white)	10.0	1.0	1.5	20.0	2.5	1.5	1.5	-		-	-	-
11.	Kavita	6	Maize Local	5.0	2.0	-		1.0	1.0	1.0	-	Sev.	-		-
12.	Iswal	5	Maize Local	8.0	2.0	1.0	25.0	1.5	1.5	0.5	-	Sev.	--	-	-
13.	Pindwara	11	Sathi Local	-	4.5	6.0	6.0	-	5.0	2.5	-	Mod.	-	-	Common Rust
14.	Jetpura	7	Ujjawal Private Company	-	4.0	3.5	6.0	-	5.0	4.5	-	Mod.	-	-	Common Rust
15.	Ambaji	15	Gujarati Local and Sweet Corn	-	6.0	2.5	6.5	2.5	4.0	2.5	Common Rust	Mod.	-	-	-
16.	Gogunda	10	900 M Gold	-	5.0	5.5	5.5	2.5	4.0	2.0	Common Rust	Sev.	-	-	-
17.	Gorana	12	Local	-	3.5	-	3.5	3.5	4.0	2.5	CS	-	-	-	-
18.	Phalasia	8	Local	-	3.5	5.0	3.0	3.5	4.5	3.5	CS	Sev.	-	-	6.0
19.	Makradev	13	Sathi Local			5.0	-	3.0	6.5	1.5					

Tr. – Traces, Mod. – Moderate, Sev. – Severe.

Table 110. Disease survey and surveillance in different maize growing areas of Tamil Nadu (Coimbatore)

Sr. No.	Crop Stage	State/Distt.	Name of the disease	Intensity	Percent Incidence
1.	Grain maturity stage	Coimbatore	*Charcoal rot*	-	43.6 %
2.	Grain filling stage	Villupuram	Charcoal rot	-	37.4%
3.	Vegetative stage	Dharmapuri	Nil	-	-
4.	Flowering stage	Peramballur	Nil	-	-
5.	Vegetative Stage	Vellore	Nil	-	-
6.	Cob development stage	Thiruvannamalai	Nil	-	-
7.	Grain maturity stage	Vagarai, Dididukal	BLSB	Medium	27.4 PDI

Table 111. Survey and surveillance of maize diseases of Northern Karnataka (Dharwad)

S.No.	District/Place	No. of fields surveyed	Crop Stage	Foliar diseases severity (PDI)				
				TLB	C. Rust	CLS	MLB	Brown Spot
1	Arabhavi	25	Grain filling stage	50.66	55.50	21.80	29.66	Traces
2	Bagalkot	8	Flowering stage	39.50	41.25	Traces	26.34	Traces
3	Bailhongal	12	Grain filling stage	52.33	53.72	24.00	Traces	Traces
4	Ranebennur	23	Dough stage	52.65	47.66	39.53	49.80	Traces
5	Dharwad	21	Dough stage	56.82	41.38	49.50	26.75	Traces
6	Gokak	12	Maturity stage	48.66	49.36	Traces	Traces	Traces
7	Shigavon	15	Dough stage	51.46	45.33	31.50	26.80	24.75
8	Haveri	29	Grain filling stage	53.82	45.65	37.48	39.66	26.50
9	Kalaghatagi	16	Dough stage	55.36	41.26	48.73	31.47	25.80
10	Mudhol	18	Grain filling stage	46.82	50.66	Traces	Traces	Traces
11	Soundatti	13	Grain filling stage	51.65	35.27	Traces	29.38	Traces

Table 112. Survey and surveillance of maize cyst nematode in Rajasthan (Udaipur)

Places Surveyed	No. of samples collected	No. of samples containing *H. zeae*	Occurrence (%)	Average Nematode Population		
				Cyst / plant	Cyst/ 100 cc soil	Larvae / 100 cc soil
Udaipur						
Audvadia	6	4	66.67	10.50	7.50	450.00
Sangwa	4	3	75.00	8.67	6.00	380.00
Ghasa Khedi	5	4	80.00	6.00	4.00	350.00
Rajsamand						
Charbhuja Ji	6	5	83.33	13.00	10.00	680.00
Sevantri	3	3	100.00	12.00	8.33	570.00
Majera	5	3	60.00	7.67	5.00	350.00
Sisavi	5	4	80.00	5.50	4.25	310.00
Chittorgarh						
Bhadesar	3	2	66.67	7.00	5.50	400.00
Sanwalia Ji	4	2	50.00	6.50	4.00	250.00
Total	**41**	**30**	**73.17**			

Table 113. Efficacy of fungicides and bioproducts on incidence of TLB at Imphal

Treatments		Disease score	PDI	Disease control (%)	Yield (q/ha)	Yield Increase (%)
T_1	Dithane M-45 75 WP@ 0.25% seed treatment and spray @ 35 and 45 DAS	3.4	37.8	33.8	96.22	28.6
T_2	Azoxystrobin 18.2 w/w +Difenoconozole11.4% w/w SC@ 0.10% seed treatment and spray @ 0.10% @ 35 and 45 DAS	2.6	28.9	49.4	98.67	31.8
T_3	Azadirachtaindica (Neem) leaves @ 10% @ 35, 45 and 55 DAS	4.0	44.8	21.4	90.80	21.3
T_4	Allium sativum (Garlic) bulb@ 10%@ 35, 45 and 55 DAS	3.9	43.7	23.4	93.91	25.5
T_5	Lantana camara @10%@ 35, 45 and 55 DAS	4.5	49.6	13.0	84.71	13.2
T_6	Cow urine @ 20%@ 35, 45 and 55 DAS	4.1	45.6	20.1	82.22	9.9
T_7	Trichoderma asperellum @ 1% as seed treatment, bioagent-fortified FYM(1:50) and spray @ 1% 50 DAS	4.3	48.1	15.6	79.51	6.2
T_8	Unprotected inorganic check (inoculated)	4.7	51.9	9.1	76.58	2.3
T_9	Unprotected organic check (inoculated)	5.1	57.0	-	74.84	-
SEm±		0.24	2.63	-	2.57	-
CD(P=0.05)		0.70	7.80	-	7.65	-
CV%		2.03	6.76	-	5.06	-

Test hybrid-HQPM1

Seed treatment and foliar application of Azoxystrobin 18.2 w/w +Difenoconozole11.4% w/w SC@ 0.10% at 35 and 45 DAS found significantly superior with respect to disease control (49.4%) and increase in yield (31.8%).

Table 114. Efficacy of different components in management of charcoal rot at Hyderabad

T.No	Name of the treatment	Wilt incidence (DI%)	Yield/ ha(kg)
T_1	Seed treatment with *Trichoderma viride* @10g/kg seed	25.3	6458
T_2	Soil application of Vermicompost enriched with *T. viride (2x10^{9}cfu/g)@ 250kg/ha*	12.5	7242
T_3	Foliar application of humic acid @5ml/l at 35DAS and 45DAS	30.7	6540
T_4	Foliar application of Chitosan @ 5ml/l at 35DAS and 45DAS	18.5	6815
T_5	Foliar application of Azoxystrobin 18.2% w/w + Difenoconazole 11.4% w/w SC @0.1% at knee high stage	16.6	7180
T_6	Foliar application of Mancozeb 75WP @ 2.5g/l at knee high stage	30.7	6473
T_7	VAM (G.sp)@ 300kg/ha	19.9	7078
T_8	Control	42.3	4901
	CD	3.55	129
	SE(m)	1.164	1.109

In control plot the disease incidence recorded was 42.3% where as significant reduction in disease incidence and improvement in yield was observed in all the treatments imposed. Among all the treatments Soil application of Vermicompost enriched with *T. viride (2x10^{9}cfu/g)@ 250kg/ha* was found to be the best treatment in terms of disease reduction and increased grain yield.

Table 115. Efficacy of fungicides on incidence of TLB at Bajaura.

Treat	Name of treatment	PDI (%)	Average Disease Score	Disease Control (%)	Yield (q/ha)	Increase in Yield (%)
T1	Kresoxim methyl 44.3%SC @ 0.10% spray at 3 days and 18 days after inoculation	20.0 (26.5)	1.8	75.9	62.91	33.3
T2	Zineb75% WP @ 0.20% spray at 3 days and 18 days after inoculation	40.4 (39.4)	3.6	51.4	54.5	15.4
T3	Thiram 75% WS only seed treatment @ 0.20%	65.9 (54.3)	5.9	20.6	52.2	10.7
T4	Azoxystrobin 18.2 w/w +Difenoconozole11.4% w/w SC@ 0.10% spray at 3 days and 18 days after inoculation	22.6 (28.3)	2	72.8	58.8	24.6
T5	Tebuconazole 50% + Trifloxystrobin 25% WG @ 0.10% spray at 3 days and 18 days after inoculation	20.4 (26.8)	1.8	75.5	68.4	45.0
T6	Azoxystrobin 7.5% +Propiconazole 12.5% SE @ 0.20% at 3 days and 18 days after inoculation	18.9 (25.7)	1.7	77.2	62.7	32.8
T7	Protected check (Mancozeb 75%WP @ 0.20% spray at 3 days and 18 days after inoculation)	42.2 (40.5)	3.8	49.1	52.6	11.5
T8	Untreated Control (Water spray)	82.9 (65.6)	7.5	-	47.2	-
	CD (0.05)	2.2	0.3	-	4.3	-
	CV (%)	3.2	4.7	-	4.8	-

Variety : Early Composite

Table 116. Efficacy of fungicides on incidence of TLB at Godhra

Treat	Name of treatment	PDI (%)	Disease control (%)	Grain yield	
				(q/ha)	Increase (%)
T_1	Kresoxim methyl 44.3% SC @ 0.10% spray at 3 days and 18 days after inoculation	30.56 (33.53)	59.03	52.23	38.73
T_2	Zineb 75% WP @ 0.20% spray at 3 days and 18 days after inoculation	38.00 (38.04)	49.68	47.86	27.12
T_3	Thiram 75% WS only seed treatment @ 0.20%	38.89 (38.55)	48.56	44.35	17.80
T_4	Azoxystrobin 18.2 w/w +Difenoconozole11.4% w/w SC@ 0.10% spray at 3 days and 18 days after inoculation	24.11 (29.37)	67.12	54.58	44.97
T_5	Azoxystrobin 18.2% w/w + Cyproconazole 7.3% w/w SC @ 0.20% spray at 3 days and 18 days after inoculation	42.56 (40.71)	43.96	48.45	28.69
T_6	Pyraclostrobin 133g/l + Epoxiconazole 50g/l SE @ 0.15% at 3 days and 18 days after inoculation	37.00 (37.44)	50.94	46.85	24.44
T_7	Protected check (Mancozeb 75%WP @ 0.20% spray at 3 days and 18 days after inoculation)	36.11 (36.91)	52.05	44.44	18.03
T_8	Untreated Control (Water spray)	77.56 (61.97)	-	37.65	-
S.Em±		0.81	-	0.97	-
CD (0.05%)		2.45	-	2.96	-
CV (%)		3.54	-	3.60	-

Table 117. Efficacy of fungicides on incidence of MLB at Karnal.

Treat	Name of treatment	Mean PDI	% control	Mean Yield (q/ha)	Yield increase over check (%)
T1	Kresoxim methyl 44.3%SC @ 0.10% spray at 3 days and 18 days after inoculation	33.2 (35.1)	57.9	107.5	27.5
T2	Zineb75% WP @ 0.20% spray at 3 days and 18 days after inoculation	55.5 (48.1)	29.6	98.4	16.7
T3	Thiram 75% WS only seed treatment @ 0.20%	64.7 (53.5)	17.9	95.7	13.5
T4	Azoxystrobin 18.2 w/w +Difenoconozole11.4% w/w SC@ 0.10% spray at 3 days and 18 days after inoculation	28.2 (32.0)	64.2	111.8	32.6
T5	Pyraclostrobin 133g/l + Epoxiconazole 50g/l SE @ 0.15% at 3 days and 18 days after inoculation	23.7 (29.1)	69.9	114.3	35.6
T6	Protected check (Mancozeb 75%WP @ 0.20% spray at 3 days and 18 days after inoculation)	48.6 (44.2)	38.3	100.6	19.3
T7	Untreated Control (Water spray)	78.8 (62.6)	-	84.3	-
	C.D.	**5.93**		**3.78**	
	C.V.	**6.93**		**2.07**	

*** Figure in parentheses are angular transformed values**

Varieity: Punjab Sweet Corn composite

Note: Azoxystrobin 18.2% w/w + Cyproconazole 7.3% w/w SC was not available in market.

Table 118 Efficacy of fungicides on incidence of MLB at Ludhiana

Treat	Treatment	Disease severity* (%)	Disease control (%)	Dried grain weight* (kg/plot)	Average yield (q/ha)	1000-grain weight*(g)
T1	Kresoxim Methyl 44.3% @0.1 % spray at 3 days and 18 days after inoculation	37.00	45.19	2.37	32.87	166.0
T2	Zineb 75%WP @0.2 % spray at 3 days and 18 days after inoculation	59.17	12.35	2.08	28.94	161.3
T3	Thiram 75% WS only seed treatment @ 0.2 %	62.50	7.41	1.26	17.48	160.0
T4	Amistar Top @0.1 % spray at 3 days and 18 days after inoculation	32.67	51.60	2.56	35.50	170.0
T5	Azoxystrobin 18,2%+Cyproconazole 7.3%SC @0.2 % spray at 3 days and 18 days after inoculation	26.50	60.74	2.71	37.62	178.7
T6	Pyraclostrobin 133g/lt+epoxyconazole 50g/lt @0.15 % spray at 3 days and 18 days after inoculation	25.83	61.73	2.85	39.55	182.0
T7	Protected check (Mancozeb 75% WP @0.2 % spray at 3 days and 18 days after inoculation)	52.50	22.22	2.26	31.33	163.3
T8	Untreated control (water spray)	67.50	-	1.07	14.92	158.7
LSD (p=0.05)		**5.04**	**-**	**0.54**	**-**	**8.40**

Test Variety: Punjab sweet corn-I

* Mean of three replications

Table 119. Efficacy of fungicides on incidence of TLB at Mandya

Treat	Name of treatments	PDI	Per cent disease control	Grain yield (Q/ha)	Per cent increase in yield
T1	Keroxim methyl 44.3%SC @0.10% spary at 3 days and 18 days after inoculation	35.30 (36.45)	53.06	58.50	108.19
T2	Zineb 75% WP @ 0.20% spary 3 days and 18 days after inoculation	46.43 (42.95)	38.25	38.17	35.82
T3	Thiram 75% WS only seed treatment @ 0.20%	51.10 (45.63)	32.05	36.20	28.83
T4	Azoxystrobin 18.2% w/w + Difenoconozole 11.4% w/w SC @ 0.10% spary at 3 days and 18 days after inoculation	23.20 (28.79)	69.15	66.20	135.59
T5	Azoxystrobin 18.2% w/w + Cyproconazole 7.3% w/w SC @ 0.20% spary at 3 days and 18 days after inoculation**	**	**	**	**
T6	Pyrclostrobin 133g/l + Epoxiconazole 50g/l SE @0.15% at 3 days and 18 days after inoculation	27.53 (31.65)	63.39	63.10	124.56
T7	Protected check (Mancozeb 75%WP @ 0.20% spary 3 days and 18 days after inoculation	37.87 (37.98)	49.65	53.20	89.32
T8	Untreated control (Water spray)	75.20 (60.13)	-	28.10	-
SEm+		**2.89**		**3.52**	
CD (P=0.05)		**8.92**		**10.85**	
CV (%)		**12.37**		**12.43**	

*Figures in parenthesis are Arcsine transformed values
**Fungicide(T5) is not available in the market

Table 120. Efficacy of fungicides in control of SDM at Mandya

Treat	**Treatments details**	**PDI***	**PDOC#**	**Yield* (q/ha)**	**PIOC#**	**B:C ratio**
T1	Kresoxim methyl 44.3%SC @ 0.10 % spray at 3 days and 18 days after inoculation	38.2^{c}(38.17)	38.9	29.5^{c}	125.5	1.7
T2	Zineb 75% WP @ 0.20 % spray at0 3 days and 18 days after inoculation	33.3^{b}(35.24)	46.8	31.3^{c}	133.2	1.9
T3	Thiram 75% WS only seed treatment @0.20 %	28.7^{b}(32.39)	54.1	36.4^{b}	154.9	2.1
T4	Azoxystrobin 18.2 w/w + Difenoconozole 11.4% w/w SC @ 0.10% spray at 3 days and 18 days after inoculation	26.3^{b}(30.85)	57.9	36.5^{b}	155.3	2.1
T5*	Seed treatment with metalaxyl + mancozeb WS [3 g/kg of seed], Foliar spray with Azoxystrobin 18.2% w/w + Difenoconazole 11.4% w/w SC @0.1% using 500 l water/ha at 30DAS	3.6^{a}(10.94)	94.2	60.2^{a}	256.2	3.5
T6	Pyraclostrobin 133g/l + Epoxiconazole 50g/l SE @ 0.15% at 3 days and 18 days after inoculation	33.0^{b}(35.06)	47.1	31.2^{c}	132.8	1.8
T7	Protected check (Mancozeb 75% WP @ 0.20% spray at 3 days and 18 days after inoculation)	25.2^{b}(30.13)	59.7	35.2^{b}	149.8	2.1
T8	Untreated Control (Water spray)	62.5^{d}(52.24)	0.0	23.5^{d}	100.0	1.4

Variety -CP 808, *T5 – Since non-availability of Azoxystrobin 18.2 w/w + Cyproconazole 7.3 % w/w SC in the mark

Table 121. Evaluation of new fungicide molecules for the management of TLB at Dharwad

Treatment No.	Fungicide	Dosage (%)	Per cent disease index	Per cent disease control	Grain Yield (q/ha)	Per cent increase in yield
T_1	Kresoxim methyl 44.3% SC	0.10	65.47 (54.11)*	18.91	59.54	13.95
T_2	Mancozeb 75% WP	0.25	65.71 (54.21)	18.62	58.66	12.26
T_3	Hexaconazole 5% SC	0.10	66.45 (54.62)	17.69	59.72	14.29
T_4	Propiconazole 25% EC	0.10	44.00 (41.82)	45.50	68.35	30.81
T_5	Tebuconazole 250 EC	0.10	28.01 (32.20)	65.30	69.71	33.41
T_6	Azoxystrobin 18.2% + Difenoconazole 11.4%	0.10	31.70 (34.20)	60.73	69.30	32.63
T_7	Tebuconazole 50% + Trifloxystrobin 25% 75 WG	0.10	32.00 (34.72)	60.36	69.82	33.62
T_8	Difenconazole 25% EC	0.10	56.50 (57.13)	30.02	64.91	24.22
T_9	Chlorothalonil 75% WP	0.20	74.75 (60.30)	7.41	55.20	5.64
T_{10}	Pyraclostrobin 20%WG	0.10	47.16 (34.75)	41.72	64.93	24.26
T_{11}	Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l 500 SC	0.10	35.75 (36.96)	55.73	68.54	31.17
T_{12}	Untreated check	-	80.74 (63.99)	-	52.25	-
	S. Em. ±	-	1.91	-	2.05	-
	C.D. @ 5 %	-	5.61	-	6.02	-
	C. V. (%)	-	5.82	-	14.66	-

Hybrid: GH 0727

*Arcsine transformed values

Foliar application of Tebuconazole 250 EC, Azoxystrobin 18.23% + Difenconazole 11.4% Trifloxystrobin 25% + Tebuconazole 50% and Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l 500 SC @ 0.1% found significantly superier with respect to disease control efficacy and increase in yield over untreated check.

*Mean of three replications. Figures in parentheses are arcsine transformed values. Means followed by a common letter are not significantly different at 5% level by Tukey's (HSD)# PDOC: Percent decrease over control; # PIOC: Percent increase over control

PDI: CD = 0.05 = 7.26, CV= 13.22; Yield: CD = 0.05 = 3.83, CV= 6.16

Table 122. Seed treatment with cow products for the management of maize cyst nematode, *Heterodera zeae* on maize

Treatment	Nematode Parameters						Grain Yield	
	Females /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
Cow Urin 10 % w/v	20.67	11.43	24.33	13.10	980.00	14.78	31.00	09.50
Cow Urine 20 % w/v	17.00	27.14	21.67	22.62	860.00	25.22	34.90	23.28
Butter Milk 10 % w/v	22.33	04.29	26.00	07.14	1050.00	08.70	29.61	04.58
Butter Milk 20 % w/v	19.33	17.14	23.67	15.48	956.67	16.81	32.59	15.13
Panchgavya 10 % w/v	18.33	21.43	22.33	20.24	880.00	23.48	33.24	17.43
Panchgavya 20 % w/v	16.00	31.43	19.67	29.76	753.33	34.49	36.24	28.00
Acephate 2 % w/w	15.33	34.29	18.33	34.52	720.00	37.39	37.43	32.20
Check	23.33	--	28.00	--	1150.00	--	28.31	--
SEm +	1.25	--	1.60	--	47.87	--	1.08	--
CD at 5%	3.79	--	4.84	--	145.21	--	3.27	--

Table 123. Evaluation of different modules for management of SDM at Mandya

Treat.	Treatments details	PDI*	PDOC#	Yield* (q/ha)	PIOC#	B:C ratio
T1	**Organic approach**: Soil amendment with *Trichoderma* formulation [@6t/acre FYM], Seed treatment with *Trichoderma* formulation @ 20g/kg seed, Foliar spray with cow urine [@1% at 30 DAS]	14.7^{c} (22.54)	67.5	44.2^{c}	175.1	1.01
T2	**Organic approach**: Soil amendment with *Trichoderma* formulation [@6t/acre FYM], Seed treatment with *Trichoderma* formulation @ 20g/kg seed, Foliar spray with *Trichoderma* formulation @1% at 30DAS	17.5^{c} (24.73)	61.3	38.9^{c}	154.0	0.89
T3	**Chemical approach**: Seed treatment with metalaxyl 35% WS [3 g/kg of seed], Foliar spray with Azoxystrobin 18.2% w/w + Difenoconazole 11.4% w/w SC @0.1% using 500 l water/ha at 30DAS	4.1^{a} (11.68)	90.9	58.6^{ab}	232.3	1.37
T4	**IDM approach**: Soil amendment with *Trichoderma* formulation [@ 6t/acre FYM], metalaxyl 35% WS [3g/kg of seed], foliar spray with Azoxystrobim 18.2% w/w + Difenoconazole 11.4% w/w SC @ 0.1% using 500 l water/ha at 30DAS	0.7^{a} (4.80)	98.5	63.7^{a}	252.2	1.43
T5	Protected Check: Seed treatment with metalaxyl 35% WS @ 3g/kg of seed	9.8^{b} (18.24)	78.3	54.2^{b}	214.6	1.29
T6	Unprotected organic check (inoculated) (Use FYM only)	33.5^{d} (35.37)	25.9	29.2^{d}	115.6	0.67
T7	Positive check (Inoculated)	45.2^{e} (42.25)	0.0	25.2^{d}	-	-

*Mean of three replications. Figures in parentheses are arcsine transformed values. Means followed by a common letter are not significantly different at 5% level by Tukey's (HSD)
PDOC: Percent decrease over control; # PIOC: Percent increase over control
PDI: CD = 0.05 = 4.02, CV= 12.18; Yield: CD = 0.05 = 5.81, CV= 7.40

All treatments are inoculated using whorl inoculation technique at 7 days after germination. After harvesting conidia in distilled water the drop of inoculums is put in whorl and counting infected plants in the row in percent infection for RDM. MLB and CLS were inoculated through spray inoculation technique twice at 40 and 50 DAS.

Table 124. Evaluation of different modules for management of RDM at Udaipur

Treat	Treatment	Disease Severity (%)	Yield in Q/ha	PEDC	Overall effect of treatment
T-1	**Organic approach** : Soil amendment with *Trichoderma* formulation [@6t/acre FYM] + Seed treatment with *Trichoderma* formulation @ 20 g/Kg seed+ Foliar spray with cow urine [@1%, at 30 DAS]	6.0	35.6	89.09	The crop looks very healthy and faster growing.
T-2	**Organic approach**: Soil amendment with *Trichoderma* formulation [@6t/acre FYM] + Seed treatment with *Trichoderma* formulation @ 20 g/Kg seed and foliar spray with *Trichoderma* formulation(@1% at 30 DAS]	10.0	34.5	81.81	Crop was good in this also but comparatively it was poor.
T-3	**Chemical approach**: Seed treatment with Metalaxyl+Mancozeb [3 gram/kg of seeds] + Foliar spray with Azoxystrobin 18.2% w/w + Difenoconazole 11.4% w/w SC (@0.1% using 500 l water/ha, at 30 DAS	3.0	39.2	94.54	Excellent crop with vigor and fertility status very good
T-4	**Chemical approach**: Seed treatment with Azoxystrobin 18.2% w/w + Difenoconazole 11.4% w/w SC [3 ml/kg of seeds] + Foliar spray with Azoxystrobin 18.2% w/w + Difenoconazole 11.4% w/w SC (@0.1% using 500 l water/ha, at 30 DAS	2.5	38.7	95.45	Excellent crop with vigor and fertility status very good
T-5	**IDM approach**: Soil amendment with *Trichoderma f*ormulation [@6t/acre FYM] + metalaxyl+mancozeb [3 gram/kg of seeds]+ Foliar spray with Azoxystrobin 18.2% w/w + Difenoconazole 11.4% w/w SC @0.1% using 500 l water/ha [at 30 DAS]	0.0	42.2	100.00	Excellent crop with vigor and fertility status very good.
T-6	**IDM approach**: Soil amendment with Trichoderma formulation [@6t/acre FYM] + Seed treatment with Azoxystrobin 18.2% w/w + Difenoconazole 11.4% w/w SC [3 ml/kg of seeds] + Foliar spray with Azoxystrobin 18.2% w/w + Difenoconazole 11.4% w/w SC @0.1% using 500 l water/ha [at 30 DAS]	0.0	41.3	100.00	Very good and visible effect on the crop with vigor and yield.
T-7	Standard protected Check: (Seed treatment with metalaxyl 35% WS [3 g/kg of seed])	6.0	34.1	89.09	Moderately good
T-8	Unprotected organic check (inoculated) (Use FYM only)	9.0	33.6	83.63	Poor as compared to treatments.
T-9	Positive Control (Inoculated)	55.0	27.8	0.00	Very poor as compared to treated ones.

Table 125. Evaluation of different modules for effective management of CLS of maize at Godhra

Treat	Module	Germination	PDI (%)	Disease control (%)	Grain yield	
					(q/ha)	Increase (%)
T_1	**Organic module:**Seed treatment with T. viride@ 10g/kg seed, One foliar spray of Nimbicidine @ 5ml/lit of water @30 DAS and Two foliar Cow urine@ 10% (100 ml in 900 ml of water) at 40DAS and 50 DAS.	97.56	30.11 (33.25)	45.92	45.73	16.27
T_2	**Chemical module:**Seed treatment with Thiram75 WP @ 3g/kg seed, One foliar spray Mancozeb 75WP @ 2.5g/litre of water@ 35 DAS and one foliar application of Azoxystrobin 18.2% + Difenoconazole 11.4% (29.6 SC) @ 1 ml/litre of water @ 50 DAS.	97.24	29.19 (32.68)	47.58	46.69	18.71
T_3	**IDM module:**Seed treatment with *T. viride* @ 10g/kg seed and Thiram75 WP @ 3g/kg seed, One foliar application of Nimbicidine 5ml/litre of water @ 35 DAS and One foliar application Azoxystrobin 18.2% + Difenoconazole 11.4% (29.6 SC) @ 1 ml/litre of water @ 50 DAS.	98.64	26.72 (31.09)	52.01	53.64	36.38
T_4	Protected check Foliar spray with Mancozeb 75 WP @ 2.5g/ litre of water @ 35 and 50 DAS	98.59	35.67 (36.63)	35.94	42.92	9.13
T_5	Unprotected organic check (inoculated)	97.76	55.68 (48.27)	-	39.33	-
T_6	Unprotected inorganic check	97.84	58.38 (49.84)	-	35.23	-
S.Em±		2.10	0.60	-	1.10	-
CD (0.05%)		6.64	1.90	-	3.48	-
CV (%)		3.73	2.71	-	4.36	-

The *kharif*2019 results revealed that all the treatments were found significantly superior over unprotected inorganic check. Among the treatments IDM module (Seed treatment with *T. viride* @ 10g/kg seed and Thiram75 WP @ 3g/kg seed; One foliar application of Nimbicidine 5ml/litre of water @ 35 DAS and one foliar application Azoxystrobin 18.2% + Difenoconazole 11.4% (29.6 SC) @ 1 ml/litre of water @ 50 DAS) was observed best in checking curvularia leaf spot (CLS) disease severity (26.72%) resulted in highest grain (53.64 q/ha) with 36.38% yield increase over unprotected organic check

Table 126. Evaluation of different modules for effective management of MLB of maize at Kalyani

Treat	Treatment Details	PDI (Percent Disease Index)	Disease control %	Yield (q/ha)	Yield increase %
T1	Organic Module - Seed treatment with *Trichoderma harzianum*(@10g/kg of seed) + foliar spray of *Pseudomonas fluorescens*(@ 10g/l of water) at 45 DAS & Foliar spray of cow urine (20%) at 60 DAS	64.63	9.91	62.7	23.42
T2	Chemical Module - Seed treatment with Thiram@ 3g/kg of seed + foliarspray of Mancozeb 75WP @ 2.5g/l of water at 40 DAS + foliar spray ofAzoxystrobin 18.2% + Difenconazole 11.4% w/w SC (Amister Top 325 SC)1ml/l of water at 50 DAS	45.55	33.41	82.26	42.93
T3	IDM Module - Seed treatment with *Trichoderma harzianum* @ 10g/kg of seed + foliar spray of *Pseudomonas fluorescens* @ 10g/l of water at 35 DAS + foliar spray of Azoxystrobin 18.2% + Difenconazole 11.4% w/w SC (Amister Top 325 SC) 1ml/l of water at 40 DAS + oliar spray of cow urine (20%) at 50 DAS	35.83	44.39	88.08	47.38
T4	Protected Check : Foliar spray with Mancozeb 75WP @ 2.5g/li at 35 and 50 DAS	64.44		59.76	
T5	Unprotected Organic Check (inoculated)	71.74		50.8	
T6	Unprotected Inorganic Check (inoculated)	68.41		57.55	
Sem		**2.89**		**2.98**	
CD(5%)		**8.91**		**9.18**	
CV (%)		9.89		8.91	

Hybrid - Kaveri 50

Table 127. Evaluation of different modules for the management of TLB at Dharwad

Treat	Treatment	TLB PDI	Per cent Disease control	Grain Yield (q/ha)	Increase in yield (%)
T_1	**Organic module :** Seed treatment with T. harzianum@ 10 g/Kg seed, foliar spray of Nimbicidine @ 5 ml/lit of water @ 35 DAS and P. fluorescence @ 10 g/lit at 50 DAS	63.27 (52.74)	22.34	52.68	10.09
T_2	**Chemical module:** Seed treatment with Thiram 75WP @ 2 g/Kg seed, foliar application of Mancozeb 75WP @ 2.5 g/litre of water @ 35 DAS followed by Azoxystrobin 18.2% + Difenoconazole 11.4% (Amistar Top) @ 1 ml/lit of water at 50 days after sowing	45.95 (42.68)	43.60	59.74	24.84
T_3	**IDM Module:** Seed treatment with T. harzianum@ 10 g/Kg seed + Thiram 75WP @2 g/Kg seed, foliar application of Nimbicidine @ 5 ml/lit of water @ 35 DAS, followed by Azoxystrobin 18.2% + Difenoconazole 11.4% (Amistar Top) @ 1 ml/lit of water at 35-40 days after sowing.	34.75 (36.32)	57.35	63.95	33.64
T_4	**Protected check:** Protected check: Foliar spray with Mancozeb 75WP @ 2.5 g/lit @ 35 and 50 DAS	54.00 (47.30)	33.17	55.62	16.23
T_5	Unprotected organic check	81.48 (64.76)		47.85	
T_6	Unprotected inorganic check	76.06 (61.30)		50.24	
SEm±		1.29		1.45	
CD (P=0.05)		3.75		4.48	
CV (%)		5.86		12.92	

(Hybrid: GH-0727)

Table 128. Evaluation of different modules for the management of TLB at Mandya

Treat	Treatments Details	PDI	Per cent disease control	Grain yield (Q/ha)	Per cent increase in yield
T1	Organic module : Seed treatment with *T. harzianum* @ 10g/Kg of seed), foliar spray of *Pseudomonas fluorescens* (@ 10g/l of water) at 45 DAS & Foliar spray of cow urine (20%) at 60 DAS	58.50 (49.89*	7.4	38.77	32.4
T2	Chemical module : Seed treatment with Thiram 75WP @ 3g/Kg of seed, foliar application of Mancozeb 75WP @ 2.5g/litre of water @ 40 DAS, Foliar spray of Azoxystrobin 18.2% +Difenconazole 11.4 % (Amistar Top 325 SC) @ 1 ml/litre of water at 50 DAS	33.77 (35.53)	11.3	53.10	22.9
T3	IDM Module : Seed treatment with *T. harzianum* @ 10g/kg of seed, Foliar spray of *Pseudomonas fluorescens* @ 10g/l of water at 35 DAS, Foliar spray of Azoxystrobin 18.2% +Difenconazole 11.4 % (Amistar Top 325 SC) @ 1 ml/litre of water at 50 DAS	25.30 (30.20)	72.2	61.27	133.8
T4	Protected check : Foliar spray with Mancozeb 75 WP @ 2.5 g/litre @ 35 and 50 DAS	38.10 (38.12)	52.1	43.23	65.0
T5	Unportected organic check (Inoculated) (use of FYM only)	63.77 (52.99)	-	29.27	-
T6	Unportected inorganic check(Inoculated)	71.17 (57.52)	-	26.20	-
SEm+		3.79		3.63	
CD (P=0.05)		11.93		11.44	
CV (%)		14.88		14.98	

Hybrid -5402

*Figures in parenthesis are Arcsine transformed values

Table 129. Evaluation of Panchgavya for the management of TLB of Maize at Bajaura

Treat	Treatment Detail	PDI (%)	Average Disease Score	Disease Control (%)	Yield (q/ha)	Increase in Yield (%)
T1	Two sprays of Panchgavya @ 2% (20 ml/l)	48.5 (44.1)	4.4	30.3	48.2	12.1
T2	Two sprays of Panchgavya @ 4% (40 ml/l)	45.6 (42.4)	4.1	34.5	52.6	22.5
T3	Two sprays of Panchgavya @ 6% (60 ml/l)	45.2 (42.2)	4.1	35.1	54.3	26.6
T4	Two sprays of Panchgavya @ 8% 80 ml/l)	43.0 (40.9)	3.9	38.3	57.0	32.9
T5	Two sprays of Mancozeb @ 0.25% 2.5 gm/l)	30.4 (33.4)	2.7	56.4	60.8	42.1
T6	Control (Water spray)	69.6 (56.5)	6.3	-	43.1	-
		2.6	0.4	-	3.7	-
		3.3	5.3	-	3.9	-

Test variety; Early Composite

Table 130. Efficacy of fungicides on incidence of TLB at CAU, Imphal

Treat	Treatment	Disease score	PDI	Disease Control %	Cob Yield (q/ha)	Yield increase (%)
T1	Kresoxim methyl 44.3%SC @ 0.10% spray at 3 days and 18 days after inoculation	2.8	31.1	43.7	253.1	9.9
T2	Zineb75% WP @ 0.20% spray at 3 days and 18 days after inoculation	3.9	44.6	19.1	247.2	7.4
T3	Thiram 75% WS only seed treatment @ 0.20%	4.5	50.0	9.5	236.9	2.9
T4	Azoxystrobin 18.2 w/w +Difenoconozole11.4% w/w SC@ 0.10% spray at 3 days and 18 days after inoculation	2.2	23.9	56.6	260.8	13.3
T5	Pyraclostrobin 133g/l + Epoxiconazole 50g/l SE @ 0.15% at 3 days and 18 days after inoculation	2.4	26.2	52.5	305.8	32.8
T6	Protected check (Mancozeb 75%WP @ 0.20% spray at 3 days and 18 days after inoculation)	3.5	39.2	29.0	255.8	11.1
T7	Untreated Control (Water spray)	5.0	55.2	-	230.3	-
SEm±		0.11	1.47	-	15.32	-
CD(P=0.05)		0.34	4.38	-	45.53	-
CV%		1.04	4.11		16.60	

Annexure-I

Meteorological data of *kharif* 2019

Sr.No.	Place	Month	Rainfall	Rainy Days	Temprature		Relative Humidity		Mean RH(%)
					Max.	Min.	FN	AN	
1	Almora	June	53.5	7.0	36.2	13.1	85.6	46.6	66.1
		July	114.3	14.0	30.1	16.3	91.1	61.2	76.2
		August	253.0	19.0	30.1	19.1	93.9	67.0	80.5
		September	46.3	6.0	29.9	17.1	93.9	57.9	75.9
		October	16.5	3.0	27.9	8.8	95.3	37.7	66.5
2	Bajaura	April	41.4	8.0	27.8	10.1	91.0	46.0	68.5
		May	39.2	9.0	29.5	11.1	89.0	38.0	63.5
		June	51.4	8.0	33.9	14.5	87.0	39.0	63.0
		July	115.6	15.0	32.0	19.8	89.0	55.0	72.0
		August	268.3	19.0	30.4	20.3	91.0	59.0	75.0
		September	34.4	7.0	30.8	18.6	89.0	52.0	70.5
		October	15.7	6.0	26.8	8.4	89.0	53.0	71.0
3	Coimbatore	June	21	-	33.5	24.8	79	54.5	66.8
		July	8.5	-	31.8	23.7	82	57.7	69.9
		August	221.3	-	29.9	23.1	83.5	65.8	74.7
		September	49.3	-	30.8	23.5	83.9	66.4	75.2
4	Delhi	July	283.9	-	44.8	22.4	97.0	37.0	67.0
		August	227.0	-	36.8	24.0	98.0	46.0	72.0
		September	17.6	-	38.0	22.4	95.0	44.0	69.5
		October	41.0	-	34.0	14.0	96.0	3.4	49.7
		November	2.6	-	31.6	9.6	97.0	23.0	60.0
5	Dharwad	January	0.0	0.0	29.5	13.0	60.5	30.5	45.5
		February	0.0	0.0	32.8	15.9	54.8	25.3	40.1
		March	0.0	0.0	35.6	18.8	58.8	25.1	42.0
		April	54.5	6.0	37.2	21.0	68.9	37.0	53.0
		May	16.2	1.0	37.1	21.3	73.5	38.7	56.1
		june	104.7	6.0	31.5	21.5	86.4	65.0	75.7
		July	230.8	17.0	27.1	20.3	89.0	85.7	87.4
		August	451.2	17.0	26.4	20.4	89.8	85.4	87.6
		September	106.8	10.0	27.3	20.9	89.9	83.1	86.5
		October	323.2	12.0	28.8	20.3	91.1	81.5	86.3
		November	21.0	2.0	27.7	18.0	82.3	61.1	71.7
		December	7.8	1.0	28.4	16.4	84.0	57.4	70.7
6	Dhaulakuan	June	13.0	-	42.7	18.8	68.4	29.0	48.7
		July	493.9	-	35.4	17.4	91.2	70.8	81.0
		August	378.2	-	33.0	18.2	92.7	70.2	81.5
		September	353.7	-	32.7	18.6	91.5	62.1	76.8
		October	27.6	-	29.9	12.2	89.5	50.1	69.8

7	Dholi	June	45.8	3.0	36.7	27.8	92.4	59.5	76.0
		July	440.0	14.0	31.8	26.5	93.8	79.4	86.6
		August	155.6	3.0	33.1	27.1	96.7	77.0	86.9
		September	315.6	8.0	30.7	25.5	98.1	84.4	91.3
		October	-	-	30.0	21.9	98.1	82.8	90.5
		November	-	-	29.1	15.6	99.4	84.4	91.9
8	Godhra	June	224.0	6.0	41.2	24.2	-	-	79.3
		July	1583.0	20.0	35.9	23.5	-	-	87.3
		August	3304.0	17.0	31.2	24.1	-	-	91.6
		September	1003.8	4.0	34.0	24.5	-	-	84.7
9	Hyderabad	June	85.0	-	36.8	20.0	80.5	48.2	64.4
		July	61.0	-	31.8	18.3	83.5	58.2	70.9
		August	191.0	-	29.9	17.4	88.2	68.0	78.1
		September	319.0	-	29.7	16.7	93.1	69.9	81.5
		October	129.0	-	30.0	16.6	93.0	70.3	81.7
		November	0.0	-	29.9	17.7	90.3	49.4	69.9
10	Ludhiana	June	28.5	2.0	42.7	25.7	69.0	21.0	45.0
		July	183.4	8.0	37.6	25.0	86.0	48.0	67.0
		August	467.2	11.0	34.9	25.7	88.0	61.0	74.5
		September	164.0	7.0	34.7	23.3	88.0	60.0	74.0
		October	0.0	0.0	31.2	15.8	92.0	40.0	66.0
11	Peddapuram	Jan	5.2	-	19.6	29.4	58.7	92.4	75.6
		Feb	0.0	-	20.6	31.0	53.2	91.2	72.2
		March	2.0	-	24.1	33.6	53.8	89.9	71.9
		April	0.0	-	25.6	36.3	50.5	88.3	69.4
		May	0.0	-	28.2	39.1	43.8	86.6	65.2
		June	0.0	-	28.2	36.3	55.3	87.1	71.2
		July	54.5	-	26.2	32.6	67.1	90.4	78.8
		August	137.0	-	25.9	32.2	70.2	90.9	80.6
		September	87.3	-	25.6	30.7	75.8	93.0	84.4
12	Rahuri	June	77.0	3.0	39.1	23.8	80.7	30.3	55.5
		July	139.0	12.0	33.8	22.8	88.0	51.0	69.5
		August	92.2	4.0	32.5	21.3	80.0	47.0	63.5
		September	145.4	9.0	30.2	21.7	83.0	67.0	75.0
		October	204.8	10.0	31.7	18.6	87.1	50.3	68.7
		November	27.4	2.0	31.1	15.2	84.0	44.3	64.2
13	Umiam	June	380.4	-	28.1	19.9	87.3	78.9	83.1
		July	396.7	-	27.9	20.4	89.2	79.8	84.5
		August	290.6	-	29.6	20.6	84.4	74.6	79.5
		September	429.7	-	27.1	19.3	92.7	86.3	89.5

Entomology

CONTENT

Executive Summary

ET1. Evaluation of AICRP entries against stemborers under artificial infestation during Kharif 2019

During *Kharif* 2019, a total of 152 entries belonging to eleven AICRP trials of early, medium, late maturity group, QPM , baby corn, sweet corn and rain-fed entries were evaluated against *Chilo partellus* (Swinhoe)under artificial infestation. AICRP locations- Northern Hill Zone (NHZ) represented by Imphal, North West Plain Zone (NWPZ) represented by Karnal and Ludhiana, North East Plain Zone (NEPZ) by Dholi, Peninsular Zone (PZ) by Kolhapur, Coimbatore, Hyderabad and Central Western Zone (CWZ) represented by Udaipur.

The entries were evaluated by pinning 10-12 black-headed eggs of *C. partellus* laid on butter paper in the whorl of the plant. The plants were observed 35 days after infestation recording the leaf injury rating on 1-9 scale.

LIR	**Plant Symptoms**
1	Plants showing no infestation
2	1-2 leaves with pinholes
3	3-4 leaves with holes
4	1/3 leaves showing infestation
5	Half the number of the leaves with infestation
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 formed

The resistant, moderately resistant and susceptible entries are defined by LIR 1-3, >3.1-6 and >6.1-9 respectively.

Different maturity groups: The following entries registered resistant reaction against *C. partellus.*

- *Early Maturity group*: Out of 12 entries of early maturity group screened under artificial infestation against *C. partellus*, none of the entries were found to be resistant and all the twelve entires were moderately resistant across the zones.
- *Medium Maturity group*: Out of 36 entries of medium maturity group screened under artificial infestation against *C. partellus*, none of the entries were found to be resistant and the entryPM 18107 M (6.08) was susceptible.

- *Late Maturity group*: Out of 31 entries of late maturity group screened under artificial infestation against *C. partellus*, none of the entries were resistant, thirty entries were moderately resistant and one entry JKMH 150375(6.04) was susceptible.
- *QPM:* Outof23 QPMentries evaluated, none of the entries were found to be resistant and all the entries recorded LIR between 4.79 -5.74 across the zones.
- *Baby Corn*: Out of 15 baby corn entries evaluated, none of the entries were found to be resistant and all the fifteen entries were moderately resistant with LIR ranging from 4.07(DBCH 326) to 5.11 (AH 7043) respectively.
- *Sweet Corn*: Out of 15 sweet corn entries evaluated against *C. partellus*, none of the entries were found to be resistant and all the fifteen entries were moderately resistant with LIR ranging from 4.29(NUZI 260) to 5.64 in ISCH 1901 respectively.
- *Rainfed:* Out of 20 entries evaluated under rain-fed category of early(7), medium(8) and late(5) against*C. partellus* under artificial infestation all the entries were moderately resistant. The lowest LIR was observed in CMH 12 -686 (4.16) and the highest LIR was observed inOMH14-27(5.83).

ET2. Evaluation of maize AICRP entries against fall armyworm under natural infestation for during Kharif, 2019

- *Early Maturity group*: Out of 12 entries of early maturity group screened under artificial infestation against *C. partellus*, none of the entries were found to be resistant and all the twelve entires were moderately resistant across the zones.
- *Medium Maturity group*: Out of 36 entries of medium maturity group screened under artificial infestation against *C. partellus*, none of the entries were found to be resistant and the entryPM 18107 M (6.08) was susceptible.
- *Late Maturity group*: Out of 31 entries of late maturity group screened under artificial infestation against *C. partellus*, none of the entries were resistant, thirty entries were moderately resistant and one entry JKMH 150375(6.04) was susceptible.
- *QPM:* Outof23 QPMentries evaluated, none of the entries were found to be resistant and all the entries recorded LIR between 4.79-5.74 across the zones.
- *Baby Corn*: Out of 15 baby corn entries evaluated, none of the entries were found to be resistant and all the fifteen entries were moderately resistant with LIR ranging from 4.07(DBCH 326) to 5.11 in (AH 7043) respectively.

- *Sweet Corn*: Out of 15 sweet corn entries evaluated against *C. partellus*, none of the entries were found to be resistant and all the fifteen entries were moderately resistant with LIR ranging from 4.29(NUZI 260) to 5.64 (ISCH 1901) respectively.
- *Rainfed:* Out of 20 entries evaluated under rain-fed category of early(7), medium(8) and late(5) against*C. partellus* under artificial infestation all the entries were moderately resistant. The lowest LIR was observed in CMH 12 -686 (4.16) and the highest LIR was observed inOMH14-27(5.83).

ET3. Evaluation of maize inbred lines against fall armyworm Spodptera frugiperda under natural infestation during Kharif, 2019

A total of one hundred twelve accessions were evaluated against fall army worm during *kharif* 2019 at Imphal, Hyderabad and Coimbatore locations under natural infestation. The Davis score on 1-9 scale for whorl feeding injury ranged from 1.8 to 5.0 and eleven accessions recorded Davis score between 1.8 to 2.0.These lines needs further evaluation under artificial infestation.

ET 4: Evaluation of inbred lines against spotted stemborer Chilo partellus (Swinhoe) under artificial infestation- during Kharif 2019

A total of one hundred fifteen accessions were evaluated against spotted stemborer during *kharif* 2019 at four locations Karnal, Ludhiana, Hyderabad and Udaipur locations under artificial infestation. Leaf injury rating ranged from 3.6 to 6.4; only seven accessions recorded LIR between 3.6 to 4.0; and fifty one accessions recorded LIR between 4.1 to 5.0. and nine accessions recorded LIR more than 6.0

ET 5. Monitoring of *fall* ***armyworm by pheromone traps during Kharif 2019 at different locations***

Fall armyworm was monitored in 10 locations *viz.,* Ambikapur, Coimbatore, Delhi, Dholi, Hyderabad, Imphal, Kolhapur, Pantnagar, Rahuri and Udaipur using FAW pheromone traps at two places in each location. At Ambikapur, trap data was recorded from 27-2 SMW with peak moth catch during 2 SMW (0.73). At Coimbatore, trap data was recorded from 22-36 SMW with peak moth catch during 31 SMW (4.04). At Delhi, trap data was recorded from 26-52 SMW with peak moth catch during 44 SMW (23.12). At Dholi, trap data was recorded from 32-46 SMW with peak moth catch during 38 SMW (1.07).

At Hyderabad, trap data was recorded from 30-45 SMW with peak moth catch during 41 SMW (4.63). At Imphal trap data was recorded from 31-41 SMW with peak moth catch during 38 SMW(0.38).At Kolhapur trap data was recorded from 30-46 SMW with peak moth catch during 40(0.61). At Pantnagar trap data was recorded from 31-52 SMW with peak moth catch during 36 SMW (18.13). At Rahuri trap data was recorded from 31-52 SMW with peak moth catch during 49 SMW (2.14). At Udaipur, trap data was recorded from 32-39 SMW with peak moth catch during 36 SMW (3.5).

ET 6. Monitoring of corn ear borer, Helicoverpa armigera (Hubner) by pheromone traps at different AICRP locations during spring and Kharif 2019

To monitor *H. armigera* in *Kharif* maize, pheromone traps were installed at two locations each at Karnal and Delhi on 8th and 27th August, 2019 respectively. Trap data was recorded from 33 - 41 SMW at Karnal and 36 – 44 SMW at Delhi. At Karnal, moths were trapped from 36- 39 SMW with peak trap catch during 38SMW (3.13 moths/trap/location). At Delhi, moths were trapped from 37 - 44 SMW with peak activity during 41 SMW (10 moths/trap/location). At Ludhiana,*H. armigera* pheromone traps were installed on 15th March 2019 in spring maize and trap data was recorded from 12 - 24 SMW. Moths were trapped in every week starting from 12 till 24 SMW with the peak trap catch during 18 SMW (19.29 moths/trap/location). However, in *kharif*-sown crop no *H. armigera* moths were found in the traps at this location.

ET 7 Evaluation of insecticides as seed treatment against fall armyworm (FAW) (1st year) during Kharif 2019

Field experiments were conducted at Hyderabad (WNC), Godhra and Rahurito evaluate effect of the seed treatment insecticides at varying doses under natural infestation for the management of fall armyworm during *Kharif* 2019. The experiment was completely randomized with three replicates of twelve treatments including untreated control. At Hyderabad centre, lowest per cent plant infestation of 29.44 to 42.78 and 38.33 to 52.22 was observed in Cyantraniliprole 19.8% + Thiamethoxam 19.8% at 7 and 14 DAG, respectively compared to untreated control (65.56 to 87.22). Interms of whorl feeding injury as per Davis scale, all the treatments showed whorl injury rating <5.0 upto 14 DAG and thereafter, the leaf damage increased. Maximum grain yield was obtained in seed treated with Cyantraniliprole 19.8% + Thiamethoxam 19.8% @ 6ml/kg seed (74.00 q/ha) compared to untreated control (49.80 q/ha). It can be concluded that seed treatment is a viable alternative for controlling fall armyworm in maize up to 14 DAG.

At Godhra centre, lowest per cent plant infestation of 0.00 and 28.33 to 43.33 was observed in Cyantraniliprole 19.8% + Thiamethoxam 19.8% at 7 and 14 DAG, respectively compared to untreated control (61.67 to 100). Among all the treatments, whorl feeding injury rating was observed in the range of 1.0 to 5.35 upto 14 DAG and thereafter theleaf damage increased. Maximum grain yield was obtained in seed treated with Cyantraniliprole 19.8% + Thiamethoxam 19.8% @ 6ml/kg seed (79.83 q/ha) compared to untreated control (63.00 q/ha).

At Rahuri centre, among the treatments tested, Thiamethoxam 30 FS recorded significant lowest per cent plant infestation of 11.67 to 12.50 and 15.00 to 16.25 respectively at 7 and 14 DAG compared to untreated control (39.17 to 45.00). Thereafter, the efficacy of seed treatment with insecticides decreased. In terms of whorl feeding injury based on Davis scale, all the treatments showed leaf injury rating <4.0 upto 14 DAG. There after, this damage increased in the range of 4.42 to 5.37 among all the treatments at 28 DAG. Thiamethoxam 30 FS @ 8 ml/kg seed recorded maximum grain yield of 55.30 q/ha compared to untreated control (42.03 q/ha).

ET 8. Evaluation of Bio-pesticides against fall armyworm during Kharif 2019 (1st Year)

The efficacy of different bio-pesticides were evaluated at three AICRP centres,Hyderabad , Kolhapur and Coimbatore against fall armyworm during *Kharif* 2019. At Hyderabad, EPN *Heterorhabdus indica* NBAIR Hi101@ 4 kg/acre (21.20) followed by *Beauveria bassiana* 2 x 10^8 spores/ ml (21.60) and *Pseudomonas flourescens* (PfDWD 1%) (22.40) were found to be the most effective based on percent plant infestation. The maximum number of dead larvae were observed in EPN *Heterorhabdus indica* NBAIR Hi101@ 20g/l of water (0.13) followed by *Pseudomonas flourescens* (PfDWD 1%) (0.10) when compared to untreated control (0.02). However, minimum Davis score (1-9 scale) was observed among all the bio-pesticides tested (2.50 to 3.63) compared to untreated control (5.17). EPN *Heterorhabdus indica* NBAIR Hi101(50.04 q/ha) followed by *Beauveria bassiana* (48.15 q/ha) recorded maximum yield return as compared to untreated control (31.74 q/ha). Maximum number of ear wigs (5.33) were observed in NBAIR Bt 2%, Coccinellids (5.0) in *Metarhizium anisopliae* NBAIR- Ma 35 and spiders in *Pseudomonas flourescens* ,PfDWD 1% (1.33) compared to untreated control(3.67,2.33 and 0.33) respectively. The ear damage rating(Davis 1-9 scale) was less than 3.0 among all the treatments including control.

At Coimbatore, *Metarhizium anisopliae* NBAIR- Ma 35 (53.33) followed by *Metarhizium anisopliae* NBAIR- Ma 45 (66.67) were found to be the most effective based on percent plant infestation at ten days after first spray. However, the Davis score was less than 5 among all the treatments at seven days after first spray. *Bacillus thuringiensis var kurstaki* (63.32 q/ha)followed byEPN *Heterorhabdus indica* NBAIR Hi101 (63.25 q/ha) and *Metarhizium anisopliae* NBAIR- Ma 35 (62.95 q/ha) resulted in maximum yield return as compared to control (56 q/ha). The ear damage rating was less than 4.0 among all the treatments including control.

At Kolhapur, minimum percent plant infestation was recorded in EPN *Heterorhabdus indica* NBAIR Hi101 (20.18) followed by *Pseudomonas flourescens* (PfDWD 1%) (20.53) and NBAIR Bt 2% (24.73) compared to control (84.51). NBAIR Bt 2% (104.76 q/ha) followed by *Metarhizium anisopliae* NBAIR-Ma 35 (103.44 q/ha) resulted in maximum yield return as compared to control (85.78 q/ha).

ET 9A. Study on incidence of spotted stem borer, Chilo partellus in Kharif sown maize in relation to plant age and meteorological factors (3rd year)

The population dynamics of *C. partellus* was monitored in two genotypes during kharif 2018 at five different locations. The infested plants were recorded at weekly interval and then dissected to observe the number of larvae present. Therefore crop age wise observation was based on the existing number of plants in each week, where asthe total infestation and total number of larvae was based on the initial plant population.

In Ludhiana, highest infestation observed in PMH1 in crop established during third week of June (21.74 %), whereas maximum number of larvae (2.65/per plant) was recorded in JC 4 established during fourth week of June. In Karnal, highest infestation was recorded in HQPM 1established in third week of July (66.67%) and maximum number of larvae in HM 10 established during first week July (5.84/plant). In Udaipur, highest infestation was recorded in Pratap Hybrid Maize 3established during fourth week of June (52.56%) and the number of larvae recovered per plant ranged from 1.08 to 1.18 across the sowings. In Hyderabad, 100% infestation was recorded in CM 400 in the crop established during third week of June to first week of July and in fourth week of July. Maximum number of larvae (0.45/plant) was recorded in CM 400 established during second week of July. In Imphal, highest infestation was recorded in crop established during third week of July (52%) and maximum number of larvae in crop established during fourth week of July (1.92/plant) in Hybrid Vijay. Generally, no infestation was noticed after 50 days of crop growth except in Hyderabad, where the crop damage was recorded at later stage due to fall armyworm infestation.

ET 9B. Study on incidence of fall armyworm, Spodoptera frugiperda in Kharif sown maize in relation to plant age and meteorological factors (1st year)

The incidence of fall armyworm (FAW) was monitored in maize genotypes during *Kharif* 2019 at Udaipur location. In Udaipur, highest infestation was recorded in Pratap Hybrid Maize 3established during fourth week of June (53.75%) and the number of larvae recovered per plant ranged from 1.1 to 1.28 across the sowings.

ET 10. Study of insect pest succession on maize during kharif 2019 at different locations

The study on insect pest succession was conducted in Imphal, Hyderabad, Ludhiana and Udaipur locations during *Kharif* 2019.

Imphal: The incidence of Aphid, spotted stem borer, fall armyworm and corn ear borer were observed on maize at this location. Aphid infestation started in the last week of July and the peak aphid activity was observed in the third week of August and continued till third week of October. Spotted stem borer incidence was observed from first week of August and continued till third week of October. Peak incidence of *Chilo* was noticed in the fourth week of August. Fall armyworm incidence started from first week of August and continued till last week of October. Peak incidence of FAW was observed in the fourth week of August. Corn ear borer incidence was observed in the second week of August and continued till last week of October. Peak corn ear borer incidence was observed in the last week of August.

Hyderabad: Incidence of Spotted stem borer and fall army worm were observed during *kharif* maize at this location and incidence of these insects were observed in the last week of July and continued till the fourth week of August.

Ludhiana: In *kharif* sown maize, Spotted stem borer, fall army worm, chaffer beetle and aphid incidence was observed at Ludhiana. Spotted stem borer incidence started in the first week of July and the peak incidence was observed in the third week of July. Army worm incidence was noticed in the third week of September and observed till last week of September. *Chiloloba acuta* incidence was observed in the last week of August to first week of September only. Aphid incidence was noticed in the first week of September till second week of September only.

Udaipur: The incidence of following insects spotted stem borer, fall army worm, aphids, chaffer beetle and termite were noticed on maize at this location. Spotted stem borer incidence started from the last week of July and continued till first week of October. Peak spotted stem borer incidence was observed in the first week of September. Fall army worm incidence also started from from the last week of July and continued till first week of October. Peak FAW incidence was observed in the second week of September. Aphid and chaffer beetle incidences started from the first week of September till first week of October. Stray termite incidence was noticed in the last week of August and continued till last week of September.

ET11. Assessment of yield loss due to fall armyworm in maize during Kharif 2019

Assessment of grain loss due to fall armyworm infestation was studied at Kolhapur centre during *Kharif* 2019 on maize using the cutivar Rajashri with two treatments t *viz*., Protected and un protected. Mean grain yield/ear was 128g at Davis score of 1 as against Davis core of 9(51 g) .The loss in grain yield due to fall army worm infestation was 38.06 q/ha and the percent loss in grain yield due to this pest was

47.26. The grain yield was 118.6 q/ha when the crop was fully protected from FAW with three sprays of insecticides as against untreated control (80.54q/ha)

ET 12. Evaluation of different ITK's for management** fall **army worm during Kharif 2019

To evaluate the ITK's for the management fall armyworm during *kharif* 2019 on maize, field experiments were conducted at Coimbatore (18 treatments) and Kolhapur(17 treatments) in a replicated trial. Results indicated that mild phytotoxicity was observed on maize treated with lime + caustic soda, Washing powder + jaggery +lime and washing powder alone (0.7 to 3.5 %) at Coimbatore location. However the dry sand + lime/ash application did not cause any phytotoxicity in maize. Dry sand + lime (8:2) recorded mean Davis score of 2.95 over other ITK's. Mean percent plants infested were lowest in Washing powder* 4 g+ Jaggery 4 g+ Lime 4 g in 1 liter of water (61.25) as against other ITK's. However, mean percent plant infestation and mean Davis score was significantly lowest in Chlorantraniliprole @ 0.4 ml/l followed by Spinetoram @ 0.5 ml/l sprayed plots.

At Kolhapur, none of the ITK's were found effective in managing the FAW damage. However the insecticide sprays Spinetoram @ 0.5 ml/l followed by Chlorantraniliprole @ 0.4 ml/l recorded significantly lowest mean percent plant infestation (8.08, 9.59), Davis score (1.91, 2.15) and significantly higher grain yield (104.8, 97.4 q/ha) respectively.

ET 1 Evaluation of maize AICRP entries against spotted stem borer, *Chilo partellus* (Swinhoe) under artificial infestation during *Kharif* 2019

Table1. Summary of AICRP entries against spotted stem borer under artificial infestation during *Kharif* 2019

AICRP trials	Number of entries in different category		
	Resistant	Moderately resistant	Susceptible
Early maturity (12)	0	12	0
Medium maturity (36)	0	35	1
Late maturity (31)	0	30	1
QPM(23)	0	23	0
Baby corn(15)	0	15	0
Sweet corn(15)	0	15	0
Early maturity (Rain-fed) (7)	0	7	0
Medium maturity (Rain-fed) (8)	0	8	0
Late maturity (Rain-fed)(5)	0	5	0

(The figures parantheses indicate number of entries screened)

Table 2. Evaluation of maize AICRP Early maturity (AVT I & AVT II) entries against *C. partellus* under artificial infestation during Kharif 2019

Trial 656, Locations: Karnal, Ludhiana, Dholi, Hyderabad and Udaipur

S.No.	Name of the entry	Mean Leaf Injury Rating (LIR on 1-9 scale)						Category
		Karnal	Ludhiana	Dholi	Hyderabad	Udaipur	Over all	
1	AH 8181	4.29	4.82	4.60	5.50	3.20	**4.48**	**MR**
2	FH 3861	4.29	4.51	4.40	5.50	5.10	4.76	**MR**
3	FH 3879	4.67	4.34	4.40	6.25	4.70	4.87	**MR**
4	JH 31947	4.50	4.67	4.70	5.40	3.90	4.63	**MR**
5	JH 31950	5.21	4.95	4.00	6.45	6.30	5.38	**MR**
6	JH 32014	4.63	4.46	4.80	6.20	4.80	4.98	**MR**
7	JH 32056	4.71	4.28	4.80	6.15	4.70	4.93	**MR**
8	JH 32057	4.54	3.92	4.30	5.85	5.50	4.82	**MR**
9	JH 32094	5.12	3.85	4.85	5.95	4.30	4.81	**MR**
10	KMH 17-89	4.83	4.33	4.60	6.45	4.20	4.88	**MR**
11	BIO 605	4.79	3.64	3.80	4.90	7.30	4.89	**MR**
12	DKC 7074	2.96	4.44	4.80	5.70	4.80	4.54	**MR**
13	CM 202 (S Check)	5.67	5.50	3.10	6.25	8.30	5.76	
14	CM 400(S Check)	5.46	6.19	6.50	6.15	6.50	**6.16**	
15	CM 500 (R Check)	4.67	3.88	4.00	5.80	4.60	4.59	
16	CM 501 (R Check)	5.17	4.80	4.00	5.80	5.10	4.97	
	Location Mean	4.72	4.53	4.48	5.89	5.21	4.97	
	CD (5%)	1.71	1.54	1.67	1.3	3.01		
	CV (%)	17.04	15.91	17.53	10.34	27.16		

Table 3. Evaluation of maize AICRP medium maturity (AVT I & AVT II) entries against *C. partellus* under artificial infestation during Kharif 2019

Trial 659, Locations: Karnal, Ludhiana, Dholi, Hyderabad and Udaipur

S.No.	Name of the entry	Mean Leaf Injury Rating (LIR on 1-9 scale)						Category
		Karnal	Ludhiana	Dholi	Hyderabad	Udaipur	Overall	
1	AH 7067R	5.06	5.26	4.18	5.50	6.71	5.34	MR
2	AH4271	4.35	4.77	4.24	5.98	6.14	5.10	MR
3	BH 416032	5.42	5.04	5.01	5.39	3.61	**4.89**	MR
4	BH416215	5.66	4.15	4.91	6.40	5.19	5.26	MR
5	BLH 118	3.900	4.20	4.30	6.81	4.72	**4.79**	MR
6	CAH 1511	4.43	4.70	5.71	6.27	5.93	5.41	MR
7	DKC 8181	4.76	5.11	5.57	6.47	2.94	4.97	MR
8	DKC 9190	4.75	3.75	4.94	6.05	5.04	**4.91**	MR
9	DKC 9194	3.91	4.51	5.04	5.77	4.87	**4.82**	MR
10	DKC 9198	4.23	5.27	3.76	6.21	6.02	5.10	MR
11	HT 18607	4.67	5.12	4.79	5.76	6.89	5.45	MR
12	IMHBG-17 K-17	5.87	4.07	5.47	5.52	4.43	5.07	MR
13	IMHBG-17K-15	4.99	3.50	4.07	5.75	3.84	**4.43**	MR
14	INDAM 1118	4.41	5.42	4.70	6.21	6.26	5.40	MR
15	INDAM 1122	5.91	4.36	5.08	6.83	5.08	5.45	MR
16	JH 16045	4.57	5.85	3.53	5.32	4.63	**4.78**	MR
17	JKMH 15303	6.13	4.15	3.91	4.98	6.89	5.21	MR
18	JKMH1518	4.05	4.16	4.47	5.82	4.44	**4.59**	MR
19	KMH 004	4.57	4.54	4.31	6.21	3.63	**4.65**	MR
20	KMH 16-29	5.51	5.36	4.91	6.68	2.95	5.08	MR
21	KNMH 4181	4.51	4.38	4.54	6.37	4.63	**4.89**	MR
22	LMH 1016	4.95	4.75	5.30	5.47	6.18	5.33	MR
23	LMH 1417	4.94	5.36	4.72	5.82	3.15	**4.80**	MR
24	LMH 3417	5.64	4.84	5.63	5.15	6.87	5.63	MR
25	MM9309	4.58	3.87	4.24	5.63	4.5	**4.56**	MR
26	NMH 4053	4.72	5.32	4.88	6.65	5.07	5.33	MR

27	OMH 17-47	4.65	4.93	4.40	5.98	5.1	5.01	MR
28	PM 17102 M	5.25	4.1	4.07	5.74	2.5	**4.33**	MR
29	PM 18107 M	5.19	5.75	5.87	6.11	7.46	**6.08**	**S**
30	RCRMH 2	3.66	5.47	3.73	6.22	4.18	**4.65**	MR
31	RCRMH 7	5.72	5.17	4.03	6.79	5.32	5.41	MR
32	SYN816604	3.73	3.91	4.57	6.11	5.1	**4.68**	MR
33	TUFAN	4.08	4.73	5.00	6.37	3.73	**4.78**	MR
34	BIO 9544	4.08	5.24	4.67	6.83	4.68	5.10	MR
35	CMH 08-292	4.88	5.87	4.10	5.72	4.93	5.10	MR
36	DHH 121	4.73	3.62	5.38	5.63	4.85	4.84	MR
37	CM 202 (S Check)	4.02	5.21	5.22	6.72	7.65	5.76	
38	CM 400 (S Check)	5.02	4.77	6.58	6.58	6.35	5.86	
39	CM 500 (R Check)	5.19	4.13	3.30	5.81	6.32	4.95	
40	CM 501 (R Check)	5.31	4.03	4.83	6.50	6.27	5.39	
41	CM 600 (S Check)	4.67	5.27	6.57	6.28	6.18	**5.79**	
	Location Mean	4.79	4.74	4.72	6.06	5.17	5.10	
	CD (5%)	1.71	1.7	1.85	1.3	2.31		
	CV (%)	17.52	17.55	19.23	10.53	21.95		

Table 4. Evaluation of maize AICRP Late maturity entries against *C. partellus* under artificial infestation during Kharif 2019

Trial 660, Locations: Karnal, Ludhiana, Dholi, Hyderabad and Udaipur

S.No.	Name of the entry	Mean Leaf Injury Rating (LIR on 1-9 scale)						Category
		Karnal	Ludhiana	Dholi	Hyderabad	Udaipur	Over all	
1	ADV 1390064	4.87	4.33	5.33	5.53	6.42	5.30	MR
2	ADV 1390164	5.46	4.10	6.42	6.34	4.51	5.37	MR
3	ADV 7132	5.74	5.46	5.10	6.03	2.61	**4.99**	MR
4	B57	4.97	5.31	6.62	5.95	6.57	5.88	MR
5	BLH 137	4.68	5.49	6.82	6.30	3.67	5.39	MR
6	Bio 218	4.82	4.14	5.77	6.01	6.36	5.42	MR
7	Bio 534	5.45	4.81	5.60	4.78	4.01	**4.93**	MR
8	CP 858	3.99	5.45	5.47	6.14	5.39	5.29	MR
9	HT 17169	3.96	5.53	6.30	6.24	4.58	5.32	MR
10	JH 16041	5.45	5.13	6.72	5.72	6.62	5.93	MR
11	JH 16081	4.98	4.84	5.97	5.76	6.06	5.52	MR
12	JH 16224	5.48	5.63	7.06	6.02	5.24	5.89	MR
13	JH 17026	4.25	5.39	6.84	5.48	6.20	5.63	MR
14	JKMH 150375	5.25	6.23	6.92	6.29	5.51	6.04	S
15	KMH 005	4.08	5.02	6.93	6.28	5.02	5.47	MR
16	KMH 463	5.45	5.31	3.8	4.73	5.41	**4.94**	MR
17	L315 (OPV)	5.77	4.88	5.38	6.06	5.29	5.48	MR
18	PM 18101 L	4.45	4.37	4.62	5.97	6.92	5.27	MR
19	PM 18104 L	5.15	5.52	6.47	6.26	5.76	5.83	MR
20	PM 18105 L	4.71	4.11	7.00	6.04	5.18	5.41	MR
21	PM 18106 L	6.78	6.29	6.05	5.67	4.63	5.88	MR
22	RCM 1-61	4.56	4.56	6.26	5.95	5.76	5.42	MR
23	RCM 1-76	5.14	5.88	5.79	6.00	4.36	5.43	MR
24	Rasi 3499	4.61	4.50	5.62	5.32	5.72	5.15	MR
25	Rasi 4992	5.25	5.7	6.52	6.04	5.01	5.70	MR
26	SUPER 1818	5.45	5.75	5.85	5.87	4.53	5.49	MR

27	SYN816514	5.64	4.20	5.97	5.55	5.09	5.29	MR
28	TS 2505	4.89	4.74	5.24	5.86	2.98	**4.74**	MR
29	BIO 9682	5.58	4.77	6.57	5.44	3.19	5.11	MR
30	CMH 08-287	4.98	4.28	5.26	5.40	4.66	**4.92**	MR
31	NK 6240	4.89	5.14	6.39	5.70	5.66	5.56	MR
32	CM 202 (S Check)	5.51	4.80	5.19	6.25	6.96	5.74	
33	CM 400 (S Check)	5.02	5.73	5.56	6.75	6.06	5.82	
34	CM 500 (R Check)	6.64	4.65	6.18	6.31	5.59	5.87	
35	CM 501 (R Check)	4.91	5.66	5.37	6.54	2.99	5.09	
36	CM 600 (S Check)	5.47	5.09	6.78	6.11	6.39	**5.97**	
	Location Mean	5.12	5.08	5.99	5.91	5.23	5.47	
	CD (5%)	1.57	1.9	1.98	1.36	2.62		
	CV (%)	14.97	18.28	16.18	11.26	24.47		

Table 5. Screening of maize AICRP QPM entries (AVT I & AVT II) group against *C. partellus* under artificial infestation during Kharif, 2019

Trial 693, Locations: Karnal, Ludhiana, Dholi, Hyderabad and Udaipur

S.No.	Name of the entry	Mean Leaf Injury Rating (LIR on 1-9 scale)						Category
		Karnal	Ludhiana	Dholi	Hyderabad	Udaipur	Over all	
1	APH 1 (PROA)	4.58	4.79	5.20	6.15	6.20	5.38	MR
2	APH 2 (PROA)	4.17	4.70	5.30	6.30	5.60	**5.21**	MR
3	APH3 (PROA)	4.17	3.53	4.60	5.80	6.30	**4.88**	MR
4	APQH 1 (QPM+PROA)	4.96	4.42	3.50	6.50	6.60	**5.20**	MR
5	APQH 8 (QPM+PROA)	4.92	4.65	4.50	5.50	8.20	5.55	MR
6	FQH 148	4.46	3.86	4.40	6.20	6.20	**5.02**	MR
7	IIMRQPMH 1705	4.67	4.04	4.70	5.75	4.90	**4.81**	MR
8	IIMRQPMH 1708	5.75	4.04	4.70	7.20	6.50	5.64	MR
9	IQPMH-18-2	5.21	4.31	5.20	6.30	6.50	5.50	MR
10	IQPMH-18-4	3.75	4.29	6.00	7.20	3.00	**4.85**	MR
11	IQPMH-19-1	4.67	4.74	4.60	5.30	3.40	**4.54**	MR
12	IQPMH-19-2	2.79	4.47	5.60	5.45	7.10	**5.08**	MR
13	IQPMH-19-3	4.17	3.96	4.85	6.35	4.60	**4.79**	MR
14	IQPMH-19-4	5.83	4.93	6.10	6.45	4.00	5.46	MR
15	QPM MH-51	5.50	4.14	4.50	5.95	6.40	**5.30**	MR
16	VEHQ 16-1	4.63	5.09	4.70	5.95	5.10	**5.09**	MR
17	PUSA HM8 IMPROVED	4.88	4.41	6.00	7.00	4.80	5.42	MR
18	Pratap QPM Hybrid	6.04	5.28	5.50	5.80	6.10	5.74	MR
19	HQPM-1	4.42	4.91	4.40	5.75	5.20	4.94	MR
20	HQPM-5	4.92	4.62	6.20	6.00	5.60	5.47	MR
21	HQPM-7	4.96	4.67	6.10	6.70	4.90	5.47	MR
22	Vivek QPM 9	5.29	4.67	5.60	6.50	6.60	5.73	MR
23	APQH 9	4.63	4.33	4.90	6.60	7.40	5.57	MR
24	CM 400 (S Check)	4.79	5.40	6.10	6.35	6.40	**5.81**	
25	CM 500 (R Check)	4.92	4.12	6.30	6.90	4.50	**5.35**	
	Location Mean	4.76	4.49	5.18	6.24	5.68	5.27	
	CD (5%)	1.72	1.49	2.66	1.58	3.28	2.146	
	CV (%)	17.48	16.04	24.89	12.28	27.93	19.72	

Table 6. Screening of maize AICRP Baby corn entries(AVT I & AVT II) group against *C. partellus* under artificial infestation during Kharif , 2019

Trial 664, Locations: Karnal, Ludhiana, Dholi, Hyderabad and Udaipur

S.No.	Name of the entry	Mean Leaf Injury Rating (LIR on 1-9 scale)						Category
		Karnal	Ludhiana	Dholi	Hyderabad	Udaipur	Over all	
1	ABHS4-1	4.63	3.20	4.7	5.55	5.3	4.68	MR
2	ABHS4-2	4.67	3.44	4.5	5.75	2.7	4.21	MR
3	AH 5021	4.96	4.03	3.9	5.5	5.1	4.70	MR
4	AH 7043	4.96	.	3.1	5.39	7.0	5.11	MR
5	AH 7188	4.63	4.03	3.8	5.55	4.4	4.48	MR
6	AH 7204	3.67	4.53	4.4	5.90	4.6	4.62	MR
7	AHB 7985	4.79	3.82	4.6	5.45	3.5	4.43	MR
8	BAU BCH 18-1	4.50	4.17	3.9	5.45	3.6	4.32	MR
9	DBCH 326	4.54	3.26	4.4	5.35	2.8	**4.07**	MR
10	IMHSB-19KB-1	4.50	3.65	4.7	5.20	2.8	4.17	MR
11	IMHSB-19KB-2	4.08	4.26	4.8	4.90	3.8	4.37	MR
12	LMH 3517	4.79	3.65	4.1	5.55	4.4	4.50	MR
13	PAC 321	3.67	3.39	5.3	5.40	3.1	4.17	MR
14	HM 4	5.67	3.88	4.1	5.75	4.3	4.74	MR
15	CMVL Baby corn 2	4.96	4.16	4.3	5.25	3.7	4.47	MR
16	CM 202 (S Check)	5.29	4.96	5.7	5.45	6.5	**5.58**	
17	CM 400 (S Check)	4.50	4.96	4.9	6.00	5.9	5.25	
18	CM 500 (R Check)	3.83	4.21	3.8	5.80	2.8	4.09	
19	CM 501 (R Check)	4.87	4.18	4.7	5.75	3.3	4.56	
20	CM 600 (S Check)	5.54	4.60	5.5	5.85	4.1	5.12	
	Location Mean	4.65	4.02	4.46	5.54	4.17	4.57	
	CD (5%)	1.89	1.45	2.4	1.08	1.97		
	CV (%)	19.45	17.08	25.72	9.26	22.46		

Table 7. Screening of maize AICRP Sweet corn entries (AVT I & AVT II) group against *C. partellus* under artificial infestation during Kharif , 2019

Trial 687, Locations: Karnal, Ludhiana, Dholi, Hyderabad and Udaipur

S.No.	Name of the entry	Mean Leaf Injury Rating (LIR on 1-9 scale)						Category
		Karnal	Ludhiana	Dholi	Hyderabad	Udaipur	Over all	
1	BSCH 417006	5.33	4.23	3.50	5.80	6.00	**4.97**	**MR**
2	BSCH 417139	6.04	4.40	5.90	6.75	2.70	5.16	**MR**
3	CP Sweet 2	5.75	3.70	4.50	5.30	5.50	**4.95**	**MR**
4	CPSC 301	4.96	4.30	5.50	6.00	5.00	5.15	**MR**
5	ISCH 0913	5.17	4.64	5.70	6.60	4.70	5.36	**MR**
6	ISCH 1901	5.12	5.09	6.20	5.40	6.40	5.64	**MR**
7	NUZI 205	5.00	4.13	5.10	5.40	5.50	5.03	**MR**
8	NUZI 260	3.75	4.48	4.20	6.20	2.80	**4.29**	**MR**
9	Super sweet	4.00	3.66	4.90	6.50	4.70	**4.75**	**MR**
10	Sweet Purple	5.04	3.93	5.90	6.15	6.20	5.44	**MR**
11	Top Sweet	3.63	3.78	5.20	5.10	4.90	**4.52**	**MR**
12	Misthi	5.37	4.41	5.50	6.45	5.10	5.37	**MR**
13	ADVSW-1	5.00	4.63	4.60	5.35	6.20	5.16	**MR**
14	ADVSW-2	4.29	3.72	5.20	6.15	6.60	5.19	**MR**
15	CMVL SC 1	5.75	4.15	4.50	6.10	4.50	5.00	**MR**
16	CM 202 (S Check)	5.04	4.50	5.50	6.85	6.20	**5.62**	
17	CM 400 (S Check)	5.63	3.92	4.90	6.85	5.10	5.28	
18	CM 500 (R Check)	5.46	4.33	4.90	6.15	3.70	4.91	
19	CM 501 (R Check)	4.96	3.63	4.20	6.35	2.90	**4.41**	
	Location Mean	5.02	4.19	5.05	6.08	4.98	5.06	
	CD (5%)	1.85	1.57	2.87	1.5	2.89		
	CV (%)	17.52	17.84	27.05	11.72	27.58		

Table 8. Screening of maize AICRP Rain-fed Early maturity entries (AVT I & AVT II) against *C. partellus* under artificial infestation during Kharif , 2019

Trial 708, Locations: Karnal, Ludhiana, Hyderabad and Udaipur

S.No.	Name of the entry	Mean Leaf Injury Rating (LIR on 1-9 scale)					Category
		Karnal	Ludhiana	Hyderabad	Udaipur	Over all	
1	ADH 1619	3.83	4.27	6.95	5.60	**5.16**	**MR**
2	ADH 8106	4.88	4.42	6.20	6.10	5.40	**MR**
3	DKC7074	4.25	4.51	5.60	4.20	**4.64**	**MR**
4	Vivek Hybrid 45	3.25	4.98	6.75	4.50	**4.87**	**MR**
5	Vivek Hybrid 51	4.54	5.33	8.00	4.90	5.69	**MR**
6	AH 8127	4.58	4.00	5.85	6.60	5.26	**MR**
7	Bio 605	5.00	5.46	6.30	6.10	5.72	**MR**
8	CM 202 (S Check)	4.63	6.10	6.30	4.90	5.48	
9	CM 400 (S Check)	5.17	5.90	7.20	5.10	**5.84**	
10	CM 500 (R Check)	6.08	4.65	5.40	5.10	5.31	
11	CM 501 (R Check)	4.75	4.69	6.00	5.60	**5.26**	
	Location Mean	4.63	4.94	6.41	5.34	5.33	
	CD (5%)	1.75	1.48	1.81	4.3	2.34	
	CV (%)	16.91	13.48	12.64	36.18	19.80	

Table 9. Screening of maize AICRP Rain-fed Medium maturity entries (AVT I & AVT II) against *C. partellus* under artificial infestation during Kharif , 2019

Trial 706, Locations: Karnal, Ludhiana, Dholi, Hyderabad and Udaipur

S.No.	Name of the entry	Mean Leaf Injury Rating (LIR on 1-9 scale)						Category
		Karnal	Ludhiana	Dholi	Hyderabad	Udaipur	Over all	
1	CAH1511	5.38	4.31	6.90	5.40	6.80	5.76	MR
2	OMH14-27	5.71	4.92	5.80	5.80	6.90	5.83	MR
3	RCRMH7(ZH138388)	4.88	4.48	4.90	5.95	7.40	5.52	MR
4	VaMH 15036	5.08	4.15	4.70	5.25	7.40	5.32	MR
5	Bio 9544	3.96	4.62	5.30	6.15	2.70	**4.55**	MR
6	CMH 08 292	4.75	4.00	5.10	6.45	7.40	5.54	MR
7	DHM 121	4.67	4.88	6.60	5.65	5.30	5.42	MR
8	CM 202 (S Check)	5.21	6.24	6.30	6.30	6.70	6.15	
9	CM 400 (S Check)	5.92	6.21	6.80	7.80	7.00	6.75	
10	CM 500 (R Check)	5.50	5.62	4.60	5.85	4.60	**5.23**	
11	CM 501 (R Check)	5.04	4.53	5.40	6.60	7.00	5.71	
	Location Mean	5.10	4.90	5.67	6.11	6.29	5.61	
	CD (5%)	2.35	1.58	2.45	1.22	3.45		
	CV (%)	20.68	14.43	19.41	8.96	24.61		

Table 10. Screening of maize AICRP Rain-fed Late maturity entries (AVT I & AVT II) against *C. partellus* under artificial infestation during Kharif , 2019

Trial 707, Locations: Karnal, Ludhiana, Dholi, Hyderabad and Udaipur

S.No.	Name of the entry	Mean Leaf Injury Rating (LIR on 1-9 scale)						Category
		Karnal	Ludhiana	Dholi	Hyderabad	Udaipur	Over all	
1	CMH 12 -686	4.08	4.09	4.00	4.85	3.80	**4.16**	**MR**
2	CMH 15-005	5.08	4.42	4.60	5.80	6.80	5.34	**MR**
3	NK 6240	5.67	4.19	4.40	6.60	5.60	5.29	**MR**
4	Bio 9682	3.54	4.53	5.00	5.95	7.20	5.24	**MR**
5	CHM 08-282	4.42	4.13	3.70	6.25	6.50	5.00	**MR**
6	CM 202 (S Check)	5.75	6.31	4.60	6.65	4.70	5.60	
7	CM 400 (S Check)	4.79	6.18	4.50	5.50	6.60	5.51	
8	CM 500 (R Check)	4.71	4.60	3.60	5.54	4.40	**4.57**	
9	CM 501 (R Check)	5.08	4.17	5.00	6.55	6.90	5.54	
	Location Mean	4.81	4.71	4.27	6.00	5.74	5.11	
	CD (5%)	2.55	1.65	1.23	1.29	4.06	5.60	
	CV (%)	23.4	15.53	12.78	9.35	31.26	5.24	

ET 2: Evaluation of maize AICRP entries against fall armyworm under natural infestation during Kharif , 2019

Table 11.Summary of maize AICRP entries against *S. frugiperda* under natural infestation during *Kharif*, 2019

AICRP trials	Davis score (1-9 scale)		
	1.0-3.0	>3.0-6.0	>6.0 – 9.0
Early maturity (12)	1	11	0
Medium maturity (36)	0	36	0
Late maturity (31)	0	31	0
QPM(23)	0	23	0
Baby corn(15)	0	15	0
Sweet corn(15)	0	15	0
Early maturity (Rain-fed) (7)	0	1	6
Medium maturity (Rain-fed) (8)	0	2	5
Late maturity (Rain-fed)(5)	0	4	2

(The figures in parentheses indicate number of entries)

Table 12. Evaluation of maize AICRP entries of Early maturity (AVT I and II) against fall **armyworm under natural infestation during *Kharif*, 2019**

Trial 656, Locations: Locations: Imphal and Hyderabad

S.No	Name of the entry	Mean Davis score (on 1-9 scale)		
		Imphal	Hyderabad	Over all
1	AH 8181	5.9	4.3	5.1
2	FH 3861	4.9	5.4	5.2
3	FH 3879	5.5	3.8	4.7
4	JH 31947	5.0	3.4	4.2
5	JH 31950	5.0	3.7	4.4
6	JH 32014	6.3	3.7	5.0
7	JH 32056	5.1	4.0	4.6
8	JH 32057	5.4	4.4	4.9
9	JH 32094	6.0	3.5	4.7
10	KMH 17-89	5.5	3.1	4.3
11	BIO 605	5.6	4.2	4.9
12	DKC 7074	3.6	2.4	3.0
13	CM 202	5.5	4.9	5.2
14	CM 400	5.6	3.6	4.6
15	CM 500	5.0	2.9	4.0
16	CM 501	5.0	2.6	3.8
	Location Mean	5.3	3.7	4.5
	CV (%)	14.26	21.36	
	CD (5%)	1.62	1.69	

Table 13.Evaluation of maize AICRP entries of Medium maturity (AVT I&II) against fall **armyworm under natural infestation during *Kharif*, 2019**

Trial 659, Locations: Imphal and Hyderabad

S.No.	Name of the entry	Mean Davis score (on 1-9 scale)		
		Imphal	Hyderabad	Over all
1	AH 7067R	5.5	3.6	4.6
2	AH4271	6.4	2.8	4.6
3	BH 416032	6.8	3.9	5.3
4	BH416215	5.9	4.6	5.2
5	BLH 118	5.5	4.4	4.9
6	CAH 1511	6.0	4.1	5.0
7	DKC 8181	4.4	3.6	4.0
8	DKC 9190	6.4	5.0	5.7
9	DKC 9194	6.1	3.2	4.6
10	DKC 9198	5.0	4.6	4.8
11	HT 18607	6.1	3.1	4.6
12	IMHBG-17 K-17	6.0	3.5	4.8
13	IMHBG-17K-15	5.8	5.1	5.5
14	INDAM 1118	5.3	3.8	4.6
15	INDAM 1122	5.2	3.9	4.6
16	JH 16045	5.3	4.4	4.8
17	JKMH 15303	5.3	3.8	4.6
18	JKMH1518	5.4	3.7	4.6
19	KMH 004	5.5	3.7	4.6
20	KMH 16-29	6.1	3.7	4.9
21	KNMH 4181	5.5	3.2	4.4
22	LMH 1016	5.3	4.0	4.7
23	LMH 1417	6.2	4.1	5.2
24	LMH 3417	6.0	3.7	4.8
25	MM9309	5.6	5.4	5.5
26	NMH 4053	5.9	4.6	5.3
27	OMH 17-47	7.0	4.8	5.9

28	PM 17102 M	6.0	4.4	5.2
29	PM 18107 M	5.3	5.0	5.2
30	RCRMH 2	5.0	3.9	4.5
31	RCRMH 7	6.0	4.2	5.1
32	SYN816604	5.6	4.0	4.8
33	TUFAN	5.5	3.2	4.3
34	BIO 9544	3.7	3.2	3.4
35	CMH 08-292	6.5	2.9	4.7
36	DHH 121	5.5	3.7	4.6
37	CM 202	6.1	5.3	5.7
38	CM 400	7.3	4.0	5.7
39	CM 500	4.9	3.8	4.4
40	CM 501	6.2	3.8	5.0
41	CM 600	7.5	4.1	5.8
	Location Mean	5.8	4.0	4.9
	CD (5%)	1.6	1.67	5.3
	CV (%)	13.64	20.44	4.6

Table 14: Evaluation of maize AICRP entries of Late maturity (AVT I & II) against fall **armyworm under natural infestation during Kharif, 2019**

Trial 660, Locations: Imphal and Hyderabad

S.No.	**Name of the entry**	**Mean Davis score (on 1-9 scale)**		
		Imphal	**Hyderabad**	**Over all**
1	ADV 1390064	4.69	3.89	4.29
2	ADV 1390164	5.23	3.69	4.46
3	ADV 7132	4.88	4.05	4.47
4	B57	4.99	4.08	4.54
5	BLH 137	3.99	4.73	4.36
6	Bio 218	4.99	4.67	4.83
7	Bio 534	4.88	3.90	4.39
8	CP 858	5.59	4.64	5.12
9	HT 17169	4.54	5.27	4.91
10	JH 16041	5.40	3.73	4.57

11	JH 16081	5.74	4.77	5.26
12	JH 16224	4.38	5.34	4.86
13	JH 17026	5.46	3.99	4.73
14	JKMH 150375	5.61	4.09	4.85
15	KMH 005	4.19	4.39	4.29
16	KMH 463	5.38	4.40	4.89
17	L315 (OPV)	4.80	3.49	4.15
18	PM 18101 L	4.78	4.38	4.58
19	PM 18104 L	4.99	4.47	4.73
20	PM 18105 L	5.04	4.92	4.98
21	PM 18106 L	4.27	3.61	3.94
22	RCM 1-61	5.32	3.46	4.39
23	RCM 1-76	4.67	3.81	4.24
24	Rasi 3499	3.28	4.88	4.08
25	Rasi 4992	4.23	3.64	3.94
26	SUPER 1818	4.65	5.01	4.83
27	SYN816514	4.14	3.23	3.69
28	TS 2505	6.16	4.54	5.35
29	NK 6240	4.67	2.61	3.64
30	CMH 08-287	4.94	4.01	4.48
31	BIO 9682	5.71	3.99	4.85
32	CM 202	5.67	3.01	4.34
33	CM 400	5.44	4.91	5.18
34	CM 500	4.80	3.94	4.37
35	CM 501	6.21	3.14	4.68
36	CM 600	4.93	3.84	4.39
	Location Mean	4.96	4.13	4.55
	CD (5%)	1.22	1.92	
	CV (%)	12.01	22.79	

Table 15. Evaluation of maize AICRP entries of QPM against fall **armyworm under natural infestation for during Kharif, 2019**

Trial 693, Locations: Imphal and Hyderabad

S.No.	Name of the entry	Mean Davis score (on 1-9 scale)		
		Imphal	Hyderabad	Over all
1	APH 1 (PROA)	3.00	3.95	3.48
2	APH 2 (PROA)	3.00	5.30	4.15
3	APH3 (PROA)	4.13	4.40	4.27
4	APQH 1 (QPM+PROA)	4.96	5.85	5.41
5	APQH 8 (QPM+PROA)	4.13	4.20	4.17
6	APQH 9 (CHECK)	5.38	5.75	5.57
7	FQH 148	4.88	4.40	4.64
8	IIMRQPMH 1705	6.13	3.40	4.77
9	IIMRQPMH 1708	3.38	4.40	3.89
10	IQPMH-18-2	3.50	3.45	3.48
11	IQPMH-18-4	3.50	3.85	3.68
12	IQPMH-19-1	3.13	4.20	3.67
13	IQPMH-19-2	5.63	4.25	4.94
14	IQPMH-19-3	3.25	4.50	3.88
15	IQPMH-19-4	3.75	5.10	4.43
16	QPM MH-51	2.38	4.25	3.32
17	VEHQ 16-1	4.38	4.40	4.39
18	Vivek QPM 9	6.00	4.15	5.08
19	HQPM-1	4.25	5.40	4.83
20	HQPM-5	5.25	4.50	4.88
21	HQPM-7	3.75	4.00	3.88
22	PUSA HM8 IMPROVED	3.25	4.20	3.73
23	Pratap QPM Hybrid	6.00	3.80	4.90
24	CM 400	4.50	4.65	4.58
25	CM 500	4.13	5.35	4.74
	Location Mean	4.20	4.47	4.34
	CD (5%)	2.49	1.64	
	CV (%)	28.65	17.74	

Table 16. Evaluation of maize AICRP entries of Baby corn against fall **armyworm under natural infestation for during Kharif , 2019**

Trial 693, Locations: Imphal and Hyderabad

S.No.	Name of the entry	Mean Davis score (on 1-9 scale)		
		Imphal	Hyderabad	Over all
1	ABHS4-1	2.50	4.35	3.43
2	ABHS4-2	4.00	4.45	4.23
3	AH 5021	3.25	3.75	3.50
4	AH 7043	3.63	4.25	3.94
5	AH 7188	4.88	3.75	4.32
6	AH 7204	2.63	4.85	3.74
7	AHB 7985	3.00	3.75	3.38
8	BAU BCH 18-1	5.00	4.75	4.88
9	DBCH 326	3.38	4.15	3.77
10	HM 4	2.38	4.65	3.52
11	IMHSB-19KB-1	2.13	4.10	3.12
12	IMHSB-19KB-2	4.75	4.60	4.68
13	LMH 3517	2.88	4.05	3.47
14	PAC 321	3.12	4.65	3.89
15	CMVL Baby corn 2	3.50	3.65	3.58
16	CM 202	2.50	5.35	3.93
17	CM 400	3.63	4.50	4.07
18	CM 500	2.88	4.20	3.54
19	CM 501	4.38	3.85	4.12
20	CM 600	2.25	3.50	2.88
	Location Mean	3.33	4.26	3.80
	CD (5%)	2.28	1.36	
	CV (%)	32.63	15.25	

Table 17. Evaluation of maize AICRP entries of Sweet corn against fall **armyworm under natural infestation for during Kharif , 2019**

Trial 687, Locations: Imphal and Hyderabad

S.No.	Name of the entry	Mean Davis score (on 1-9 scale)		
		Imphal	Hyderabad	Over all
1	BSCH 417006	4.75	4.00	4.38
2	BSCH 417139	6.25	3.85	5.05
3	CP Sweet 2	5.88	4.10	4.99
4	CPSC 301	3.88	4.20	4.04
5	ISCH 0913	6.75	3.30	5.03
6	ISCH 1901	6.00	3.90	4.95
7	NUZI 205	4.50	4.00	4.25
8	NUZI 260	5.13	3.80	4.47
9	Super sweet	6.13	3.60	4.87
10	Sweet Purple	5.88	5.45	5.67
11	Top Sweet	6.25	4.05	5.15
12	Misthi	5.75	3.40	4.58
13	ADVSW-1	5.50	3.45	4.48
14	ADVSW-2	5.63	4.15	4.89
15	CMVL SC 1	5.38	3.85	4.62
16	CM 202	5.38	4.15	4.77
17	CM 400	5.75	4.05	4.90
18	CM 500	6.13	3.70	4.92
19	CM 501	6.38	3.85	5.12
	Location Mean	5.64	3.94	4.79
	CD (5%)	2.8	1.13	
	CV (%)	23.57	13.66	

Table 18. Evaluation of maize AICRP entries of rain-fed Early maturity (AVT I and II) against fall **armyworm under natural infestation in PZ during Kharif , 2019**

Trial 708, Locations: Hyderabad and Kolhapur

S.No.	Name of the entry	Mean Davis score (on 1-9 scale)		
		Hyderabad	Kolhapur	Over all
1	ADH 1619	3.50	8.80	6.15
2	ADH 8106	4.15	9.00	6.58
3	AH 8127	3.45	9.00	6.23
4	Bio 605	4.00	8.90	6.45
5	DKC7074	3.10	8.90	6.00
6	Vivek Hybrid 45	4.05	8.40	6.23
7	Vivek Hybrid 51	4.35	8.90	6.63
8	CM 202	5.85	8.90	7.38
9	CM 400	4.85	9.00	6.93
10	CM 500	3.55	9.00	6.28
11	CM 501	3.80	8.92	6.36
	Location Mean	4.06	8.89	6.48
	CD (5%)	1.92	0.67	
	CV (%)	21.22	3.28	

Table 19. Evaluation of maize AICRP entries of rain-fed Medium maturity (AVT I and II) against fall **armyworm under natural infestation in PZ for during Kharif , 2019**

Trial 708, Locations: Hyderabad and Kolhapur

S.No.	Name of the entry	Mean Davis score (on 1-9 scale)		
		Hyderabad	Kolhapur	Over all
1	CAH1511	4.20	9.00	6.60
2	OMH14-27	3.90	9.00	6.45
3	RCRMH7(ZH138388)	3.45	8.50	5.98
4	VaMH 15036	3.80	8.50	6.15
5	Bio 9544	3.95	8.30	6.13
6	CMH 08 292	3.95	7.80	5.89
7	DHM 121	4.85	7.50	6.18
8	CM 202	4.70	9.00	6.85
9	CM 400	3.70	9.00	6.35
10	CM 500	-	8.45	8.45
11	CM 501	4.50	7.90	6.20
	Location Mean	4.10	8.45	6.28
	CD (5%)	1.46	1.18	
	CV (%)	15.79	6.25	

Table 20. Evaluation of maize AICRP entries against fall armyworm under natural infestation for rain-fed Late maturity AVT I and II in PZ during Kharif , 2019

Trial 707, Locations: Hyderabad and Kolhapur

S.No.	Name of the entry	Mean Davis score (on 1-9 scale)		
		Hyderabad	Kolhapur	Over all
1	CMH 12 -686	4.50	8.20	6.35
2	CMH 15-005	4.25	8.80	6.53
3	Bio 9682	3.10	7.70	5.40
4	CHM 08-282	3.60	7.90	5.75
5	CMH 08-287	3.10	8.50	5.80
6	NK 6240	3.30	7.70	5.50
7	CM 202	4.85	9.00	6.93
8	CM 400	4.05	8.60	6.33
9	CM 500	3.50	7.75	5.63
10	CM 501	3.40	8.30	5.85
	Location Mean	3.77	8.21	5.99
	CD (5%)	1.75	0.71	
	CV (%)	20.52	3.75	

Table 21. Evaluation of maize AICRP entries of rain-fed Early maturity (AVT I and II) against fall armyworm under natural infestation in NHZ during Kharif, 2019

Trial 708, Location: Imphal

S.No.	Name of the entry	Mean Davis score (on 1-9 scale)
1	ADH 1619	2.50
2	ADH 8106	2.13
3	AH 8127	2.63
4	Bio 605	2.63
5	DKC7074	2.13
6	Vivek Hybrid 45	1.50
7	Vivek Hybrid 51	2.13
8	CM 202	2.50
9	CM 400	2.38
10	CM 500	2.25
11	CM 501	1.88
	Location Mean	2.24
	CD (5%)	0.94
	CV (%)	18.81

Table 22. Evaluation of maize AICRP entries of rain-fed Medium maturity (AVT I and II) against fall **armyworm under natural infestation in NHZ during Kharif , 2019**

Trial 708, Location : Imphal

S.No.	Name of the entry	Mean Davis score (on 1-9 scale)
1	CAH1511	2.75
2	OMH14-27	2.13
3	RCRMH7(ZH138388)	3.38
4	VaMH 15036	2.13
5	Bio 9544	2.50
6	CMH 08 292	2.38
7	DHM 121	2.38
8	CM 202	2.50
9	CM 400	2.38
10	CM 500	2.25
11	CM 501	2.13
	Location Mean	2.44
	CD (5%)	1.63
	CV (%)	29.88

Table 23. Evaluation of maize AICRP entries rain-fed Late maturity against fall **armyworm under natural infestation for AVT I and II in NHZ during Kharif , 2019**

Trial 707, Location: Imphal

S.No.	Name of the entry	Mean Davis score (on 1-9 scale)
1	CMH 12 -686	1.63
2	CMH 15-005	2.13
3	Bio 9682	2.13
4	CHM 08-282	2.38
5	CMH 08-287	2.13
6	NK 6240	2.25
7	CM 202	2.25
8	CM 400	2.63
9	CM 500	1.63
10	CM 501	2.13
	Location Mean	2.13
	CD (5%)	1.00
	CV (%)	20.82

ET 3. Evaluation of inbred lines against fall armyworm under natural infestation during Kharif 2019.

Table 24. Whorl feeding injury rating based on Davis scale for FAW at Hyderabad, Coimbatore and Imphal

Season: Kharif 2019 **Number of entries:112**

No. of Rows: **Spacing:** 75x20 cm

Row Length: 2.0**m** **Design: Augmented**

S.No.	Entry	Mean Davis score on 1-9 scale			
		Imphal	Hyderabad	Coimbatore	Over all
1	IC 0549903	2.5	2.9	1.6	2.3
2	IC 415073	3.8	2.5	1.6	2.6
3	MEGHALAYA - 215	4.8	-	-	4.8
4	CM 501	2.8	2.7	2.1	2.5
5	SRINGAR LOCAL	-	2.5	2.7	2.6
6	Acc.No.447304 -B-1	2.3	-	-	2.3
7	Acc.No.447425-B-1	3.0	3.0	2.1	2.7
8	CM 500	-	2.5	2.3	2.4
9	Acc.No.552825	-	-	3.5	3.5
10	Acc.No.552829-B-1	-	5.0	-	5.0
11	CML 226	3.5	4.0	2.3	3.3
12	CML 228BBB	2.8	-	1.7	2.3
13	DMRE63/CML 287-RANDOM13-1	3.0	2.5	1.3	2.3
14	DMR E63 / CML 287-4-14-3B	3.0	2.7	1.6	2.4
15	CM 202	2.8	3.1	3.0	3.0
16	DMR E63 / CML 287-2-34-1B	-	-	3.7	3.7
17	DMR E63 / CML 287-4-89-4B	-	3.2	2.8	3.0
18	DMR E63 / CML 287-2-38-4B	-	2.6	2.3	2.5
19	DMR E63 / CML 287-2-64-3B	-	2.8	1.8	2.3
20	CM 400	-	2.0	2.3	2.2
21	DMR E63 / CML 287-3-66-3B	2.3	1.5	1.5	1.8
22	DMR E63 / CML 287-2-87-3B	5.0	2.2	2.0	3.1
23	DMR E63 / CML 287-2-91-2B	4.0	2.0	1.6	2.5
24	DMR E63 / CML 287-3-61-2B	2.8	2.6	1.6	2.3
25	DMR E63 / CML 287-3-68-2B	3.0	1.5	1.5	2.0
26	DMR E63 / CML 287-4-51-8B	2.8	2.8	1.6	2.4
27	CM 400	3.8	3.3	2.0	3.0
28	CM500	3.3	3.3	1.9	2.8
29	CM 501	4.5	2.4	2.3	3.1
30	CM501	4.5	2.9	2.3	3.2
31	DMR E63 / CML 287-3-90-8B	3.5	2.6	1.9	2.7
32	DMR E63 / CML 287-4-10-3B	2.8	3.0	2.6	2.8
33	DMR E63 / CML 287-4-11-6B	5.8	3.1	2.4	3.8

34	DMR E63 / CML 287-4-11-6B	3.8	2.7	1.8	2.8
35	CM 400	4.0	3.4	2.0	3.1
36	DMR E63 / CML 287-4-14-3B	2.0	2.2	1.9	2.0
37	CM 500	2.0	2.3	2.5	2.3
38	CM 202	2.3	2.2	2.5	2.3
39	DMR E63 / CML 287-4-20-2B	2.3	3.4	2.8	2.8
40	DMR E63 / CML 287-4-2-7B	2.3	2.4	2.0	2.2
41	DMR E63 / CML 287-4-32-3B	2.5	4.0	2.0	2.8
42	DMR E63 / CML 287-4-32-3B	2.0	2.2	1.8	2.0
43	DMR E63 / CML 287-4-35-2B	5.5	3.0	1.7	3.4
44	CM 501	3.0	3.9	1.9	2.9
45	DMR E63 / CML 287-4-36-4B	3.3	2.8	2.3	2.8
46	CM 202	2.5	3.4	2.3	2.7
47	DMR E63 / CML 287-4-39-4B	3.0	2.8	2.0	2.6
48	DMR E63 / CML 287-4-3B	2.3	2.0	1.7	2.0
49	DMR E63 / CML 287-4-3B	2.8	2.3	1.7	2.3
50	DMR E63 / CML 287-4-3B	3.3	2.5	1.4	2.4
51	DMR E63 / CML 287-4-45-4B	3.0	2.8	1.8	2.5
52	DMR E63 / CML 287-4-46-6B	5.0	2.9	2.1	3.3
53	DMR E63 / CML 287-4-51-8B	3.0	2.8	2.6	2.8
54	DMR E63 / CML 287-4-61-2B	5.3	2.1	1.7	3.0
55	DMR E63 / CML 287-4-73-3B	2.8	2.4	1.7	2.3
56	DMR E63 / CML 287-4-81-3B	4.3	2.9	3.1	3.4
57	CM 400	2.5	3.5	2.2	2.7
58	DMR E63 / CML 2874-82-3B	2.3	2.4	2.9	2.5
59	DMR E63 / CML 287-4-73-3B	2.3	2.3	1.5	2.0
60	CM 500	-	2.5	1.3	1.9
61	DMR E63 / CML 287-4-88-1B	-	2.4	1.7	2.1
62	DMR E63 / CML 287-4-88-1B	-	2.2	1.7	2.0
63	DMR E63 / CML 287-5-16-2B	-	2.1	1.6	1.9
64	DMR E63 / CML 287-5-17-B	-	2.0	2.6	2.3
65	DMR E63 / CML 287-5-26-3B	2.5	2.2	1.9	2.2
66	DMR E63 / CML 287-5-26-3B	-	1.9	1.8	1.9
67	DMR E63 / CML 287-5-27-4B	3.0	*1.6*	1.8	2.1
68	DMR E63 / CML 287-5-2-8B	3.0	*1.4*	2.4	2.3
69	DMR E63 / CML 287-5-31-4B	5.8	*2.4*	2.1	3.4
70	DMR E63 / CML 287-5-36-3B	4.8	*2.5*	2.1	3.1
71	DMR E63 / CML 287-5-6-3B	5.0	*2.8*	2.1	3.3
72	CM 500	-	*2.5*	2.2	2.4
73	DMR E63 / CML 287-5-8-7B	4.3	*1.9*	1.8	2.7
74	DMR E63 / CML 287-5-9-4B	4.8	*2.6*	2.1	3.2
75	DMR E63 / CML 287-R 3-327-1B	4.5	*2.6*	1.4	2.8
76	DMR E63/CML 287-2-1	3.8	*2.6*	1.9	2.8
77	DMR E63/CML 287-2-3	4.0	*1.8*	2.1	2.6
78	CM 400	-	*2.8*	1.6	2.2
79	DMR E63/CML 287-3-5	3.5	*2.6*	1.9	2.7
80	DMR E63/CML 287-4-4	4.0	*2.0*	1.8	2.6
81	CM 202	4.3	*2.0*	2.6	3.0

82	IC624627	3.8	*2.5*	2.4	2.9
83	DMR E63/CML 287-4-5	5.0	*2.7*	1.7	3.1
84	DMR E63/CML 287-4-6	-	*2.1*	1.4	1.8
85	DMR E63/CML 287-5-3	-	*2.6*	1.8	2.2
86	DMR E63/CML 287-6-1	-	*2.5*	1.7	2.1
87	DMR E63/CML 287-8-1	4.5	*3.0*	1.7	3.1
88	DMR E63/CML338-1-5Ä	4.3	*2.8*	1.5	2.9
89	CM 501	5.0	*3.3*	1.5	3.3
90	BML 22 SEL	4.3	*3.5*	2.4	3.4
91	HKI 5072-2-BT	2.5	*3.8*	3.6	3.3
92	DMR E 63	4.8	*3.3*	2.3	3.5
93	CM 400	-	*3.2*	2.2	2.7
94	HKI 1105	3.3	*2.3*	2.4	2.7
95	CM 501	5.3	*2.5*	2.1	3.3
96	BML 20	4.0	*2.3*	2.4	2.9
97	BML 14	2.5	*2.7*	3.4	2.9
98	E5	5.5	*3.0*	2.0	3.5
99	CM 202	4.8	*2.5*	2.7	3.3
100	E 62	5.0	*2.5*	1.7	3.1
101	IIMR SBT POOL	3.5	*4.4*	1.3	3.1
102	IIME PBT POOL	5.8	*3.4*	1.3	3.5
103	DMRE63	2.8	*2.2*	1.4	2.1
104	CM 500	-	*2.5*	1.6	2.1
105	LM13	3.0	*2.0*	2.7	2.6
106	LM14	5.3	*1.8*	1.7	2.9
107	BML6	4.3	*2.5*	1.6	2.8
108	CM 202	4.3	*2.4*	1.7	2.8
109	DMR E63 / CML 287-5-15-3B	5.0	*2.8*	1.4	3.1
110	DMR E63 / CML 287-4-20-2B	5.3	*2.5*	1.8	3.2
111	DMR E63 / CML 287-4-20-2B	4.3	*2.8*	1.4	2.8
112	DMR E63 / CML 287-4-89-4B	2.8	*4.0*	1.4	2.7

Results:

Factors	**Imphal**	**Hyderabad**	**Coimbatore**	**Overall**
Grand Mean Gen	3.54	2.659	1.98	2.74
Avg Std Err Difference Gen	0.783	0.776	0.533	0.604
LSD Gen	1.557	1.677	1.15	1.304

Note: Hyderabad location having low heritability

ET 4. Evaluation of inbred lines against *C. partellus* under artificial infestation.
Table 25. Leaf injury rating for spotted stem borer at different locations during Kharif 2019

Season: Kharif 2019 Number of entries:115
No. of Rows: 1 Spacing: 75x20 cm
Row Length: 2.0m Design: Augmented

S.No.	ENTRY	Mean LIR (1-9 Scale)				
		Karnal	Ludhiana	Udaipur	Hyderabad	Overall
1	IC 0549903	5.1	4.5	8.0	2.8	5.1
2	IC 415073	5.7	4.3	2.6	2.5	3.8
3	IC 415073-1	4.8	3.7	5.2	-	4.6
4	MEGHALAYA - 214	4.9	-	7.0	-	6.0
5	MEGHALAYA - 215	5.0	4.1	5.4	-	4.8
6	CM 501	4.6	4.3	5.0	2.3	4.1
7	SRINGAR LOCAL	6.7	5.6	5.2	2.3	5.0
8	Acc.No.447304 -B-1	3.0	7.0	7.4	-	5.8
9	Acc.No.447425-B-1	5.0	5.5	5.2	3.8	4.9
10	CM 500	4.7	4.3	2.2	3.5	3.7
11	Acc.No.448803-B-1	4.4	-	5.0	-	4.7
12	Acc.No.552825	5.2	6.0	7.6	-	6.3
13	Acc.No.552829-B-1	4.6	6.5	7.0	-	6.0
14	CML 226	6.3	4.5	3.8	-	4.9
15	CML 228BBB	2.8	-	5.2	-	4.0
16	DMRE63/CML 287- RANDOM13-1	6.3	4.5	8.2	6.6	6.4
17	DMR E63 / CML 287-4-14-3B	5.3	6.6	4.0	3.5	4.9
18	CM 202	5.0	6.3	5.4	3.8	5.1
19	DMR E63 / CML 287-2-34-1B	4.6	6.4	2.4	-	4.5
20	DMR E63 / CML 287-4-89-4B	4.8	4.2	4.8	3.5	4.3
21	DMR E63 / CML 287-2-38-4B	4.8	6.4	7.4	4.0	5.7
22	DMR E63 / CML 287-2-64-3B	5.6	3.9	5.2	4.3	4.8
23	CM 400	5.3	5.5	4.8	2.8	4.6
24	DMR E63 / CML 287-3-66-3B	4.7	6.8	2.4	3.5	4.4
25	DMR E63 / CML 287-2-87-3B	5.1	4.7	3.8	4.0	4.4
26	DMR E63 / CML 287-2-91-2B	4.8	5.4	8.0	4.0	5.6
27	DMR E63 / CML 287-3-61-2B	4.7	6.2	4.2	4.3	4.9
28	DMR E63 / CML 287-3-68-2B	5.0	4.6	7.4	5.0	5.5
29	DMR E63 / CML 287-4-51-8B	6.5	4.2	6.8	-	5.8
30	CM 400	4.8	4.4	4.4	5.0	4.7
31	CM500	4.8	6.0	3.8	5.3	5.0
32	CM 501	6.1	3.5	2.2	4.6	4.1
33	CM501	5.0	3.2	7.8	3.1	4.8
34	DMR E63 / CML 287-3-90-8B	6.2	6.3	3.8	4.6	5.2
35	DMR E63 / CML 287-4-10-3B	2.7	4.0	3.6	6.3	4.2
36	DMR E63 / CML 287-4-11-6B	4.7	6.8	2.8	5.2	4.9
37	DMR E63 / CML 287-4-11-6B	4.3	4.1	3.6	4.0	4.0
38	CM 400	4.8	5.7	7.6	7.0	6.3
39	DMR E63 / CML 287-4-14-3B	4.7	6.2	4.8	4.3	5.0
40	CM 500	4.7	3.8	7.4	3.2	4.8

41	CM 202	5.0	7.2	6.8	6.3	6.3
42	DMR E63 / CML 287-4-20-2B	4.8	5.2	4.2	4.3	4.6
43	DMR E63 / CML 287-4-2-7B	4.8	3.9	4.0	4.0	4.2
44	DMR E63 / CML 287-4-32-3B	4.7	6.4	7.0	5.0	5.8
45	DMR E63 / CML 287-4-32-3B	5.2	4.4	2.8	5.3	4.4
46	DMR E63 / CML 287-4-35-2B	4.8	6.1	3.6	-	4.8
47	CM 501	4.7	3.3	7.8	6.0	5.5
48	DMR E63 / CML 287-4-36-4B	4.8	3.6	6.6	5.0	5.0
49	CM 202	4.8	6.2	4.2	7.5	5.7
50	DMR E63 / CML 287-4-39-4B	4.6	5.00	4.8	7.4	5.5
51	DMR E63 / CML 287-4-3B	2.8	6.8	3.8	-	4.5
52	DMR E63 / CML 287-4-3B	4.7	4.2	3.6	6.0	4.6
53	DMR E63 / CML 287-4-3B	4.5	4.6	2.2	7.0	4.6
54	DMR E63 / CML 287-4-45-4B	2.8	4.9	4.6	6.8	4.8
55	DMR E63 / CML 287-4-46-6B	4.7	3.9	7.2	8.0	6.0
56	DMR E63 / CML 287-4-51-8B	3.0	4.0	3.6	4.3	3.7
57	DMR E63 / CML 287-4-61-2B	6.2	3.8	7.0	5.0	5.5
58	DMR E63 / CML 287-4-73-3B	4.4	4.4	4.6	8.0	5.4
59	DMR E63 / CML 287-4-81-3B	5.0	5.1	2.2	-	4.1
60	CM 400	4.6	5.3	4.6	-	4.8
61	DMR E63 / CML 2874-82-3B	5.1	3.6	5.0	7.0	5.2
62	DMR E63 / CML 287-4-73-3B	2.8	5.3	5.8	6.2	5.0
63	CM 500	4.9	4.4	7.6	4.7	5.4
64	DMR E63 / CML 287-4-88-1B	4.7	4.9	6.4	6.5	5.6
65	DMR E63 / CML 287-4-88-1B	6.3	3.9	6.0	5.3	5.4
66	DMR E63 / CML 287-5-16-2B	4.7	5.2	7.4	3.9	5.3
67	DMR E63 / CML 287-5-17-B	4.4	4.3	5.6	6.5	5.2
68	DMR E63 / CML 287-5-26-3B	4.9	4.3	2.4	-	3.9
69	DMR E63 / CML 287-5-26-3B	5.3	4.2	6.0	6.0	5.4
70	DMR E63 / CML 287-5-27-4B	4.9	5.3	7.6	7.3	6.3
71	DMR E63 / CML 287-5-2-8B	5.1	4.6	8.2	5.0	5.7
72	DMR E63 / CML 287-5-31-4B	6.2	5.7	6.4	-	6.1
73	DMR E63 / CML 287-5-36-3B	4.9	-	7.2	5.0	5.7
74	DMR E63 / CML 287-5-6-3B	2.7	4.1	5.8	4.3	4.2
75	CM 500	4.6	4.5	2.6	2.8	3.6
76	DMR E63 / CML 287-5-8-7B	4.7	-	5.8	3.2	4.6
77	DMR E63 / CML 287-5-9-4B	4.9	5.0	7.8	5.0	5.7
78	DMR E63 / CML 287-R 3-327-1B	4.7	4.0	5.4	6.5	5.2
79	DMR E63/CML 287-2-1	5.0	4.3	7.0	7.5	6.0
80	DMR E63/CML 287-2-3	4.6	6.0	5.8	5.3	5.4
81	CM 400	4.7	5.8	5.2	8.2	6.0
82	DMR E63/CML 287-3-5	4.7	5.5	2.4	6.7	4.8
83	DMR E63/CML 287-4-4	4.7	5.5	4.2	2.8	4.3
84	CM 202	4.7	5.8	5.6	7.8	6.0
85	IC624627	4.6	4.4	5.4	3.5	4.5
86	DMR E63/CML 287-4-5	3.0	4.3	6.2	4.7	4.6
87	DMR E63/CML 287-4-6	5.6	5.6	5.8	7.8	6.2
88	DMR E63/CML 287-5-3	5.1	4.2	6.8	7.8	6.0
89	DMR E63/CML 287-6-1	2.6	4.4	7.2	6.2	5.1

90	DMR E63/CML 287-8-1	4.5	4.2	5.0	5.5	4.8
91	DMR E63/CML338-1-5Ä	5.0	4.9	6.6	7.3	6.0
92	CM 501	5.3	4.93	5.4	3.8	4.9
93	BML 22 SEL	5.1	4.8	4.8	7.3	5.5
94	HKI 5072-2-BT	4.5	6.0	2.8	8.4	5.4
95	DMR E 63	4.4	4.7	5.8	5.2	5.0
96	CM 400	5.8	5.7	6.8	6.0	6.1
97	HKI 1105	2.8	5.1	5.0	5.5	4.6
98	CM 501	4.4	4.7	4.8	4.8	4.7
99	BML 20	4.3	4.8	5.2	5.3	4.9
100	BML 14	4.8	4.6	2.6	4.4	4.1
101	E5	5.2	4.4	6.2	5.5	5.3
102	CM 202	4.4	4.7	6.8	6.7	5.7
103	E 62	6.1	3.7	5.6	4.3	4.9
104	IIMR SBT POOL	4.7	4.0	3.4	5.0	4.3
105	IIME PBT POOL	6.3	5.9	2.4	6.2	5.2
106	DMRE63	4.8	5.8	6.6	5.0	5.6
107	CM 500	4.8	4.6	6.0	3.0	4.6
108	LM13	5.1	7.0	5.0	6.8	6.0
109	LM14	5.0	5.0	7.2	5.7	5.7
110	BML6	4.9	4.2	4.4	8.8	5.6
111	CM 202	5.1	6.2	2.4	8.0	5.4
112	DMR E63 / CML 287-5-15-3B	4.8	6.7	4.6	7.8	6.0
113	DMR E63 / CML 287-4-20-2B	5.0	6.2	7.0	6.8	6.3
114	DMR E63 / CML 287-4-20-2B	5.3	5.8	6.6	4.8	5.6
115	DMR E63 / CML 287-4-89-4B	4.8	6.9	4.8	6.8	5.8

Results:

Factors	**Karnal**	**Ludhiana**	**Udaipur**	**Hyderabad**	**Overall**
Grand Mean Gen	4.773	4.979	5.26	5.157	5.101
Avg Std Err Difference Gen	0.555	0.872	2.519	1.568	0.807
LSD Gen	1.199	1.883	5.443	3.451	1.743

Note: Udaipur location having low heritability

ET 5. Monitoring of fall army worm *S. frugiperda* by pheromone traps during Kharif 2019 at different locations

Installation of pheromone traps at different locations during Kharif 2019	
Name of the centre	**Date of installation of traps**
Ambikapur	02.08.2019
Coimbatore	01.06.2019
Delhi	25.06.2019
Dholi	07.082019
Hyderabad	26.07.2019
Imphal	01.08.2019
Kalyani	10.08.2019
Karnal	01.08.2019
Kolhapur	01.08.2019
Ludhiana	08.08.2019
Pantnagar	01.08.2019
Rahuri	01.08.2019
Udaipur	12.08.2019

No moth trap catches were observed in Godhra, Kalyani, Karnal and Ludhiana locations

Table 26. Monitoring of fall **army worm *S. frugiperda* by pheromone traps during *kharif* at different locations**

Standard Meteorological Weeks	Mean number of fall armyworm moths/trap/week									
	Ambikapur	Coimbatore	Delhi	Dholi	Hyderabad	Imphal	Kolhapur	Pantnagar	Rahuri	Udaipur
22		0								
23		0.33								
24		0.25								
25		1.17	-							
26	-	1.95	0							
27	0	1.47	0							
28	0	1.16	0							
29	0	1.28	0		-					
30	0	1.28	0		0.75	-	-	-	-	
31	0	4.04	0	-	0.88	0	0	0.67	0.0	-
32	0.20	0	0	0.40	0.88	0	0	0.58	3.25	0.75
33	0	3.20	0.50	0.61	1.13	0	0	0.33	8.13	2.50
34	0	1.96	0.25	0.99	1.63	0.25	0	0.28	12.13	3.50
35	0	1.60	0.44	0.59	2.63	0.29	0	0.15	15.38	2.25
36	0	0	0.13	0.43	3.13	0.25	0.33	0.17	18.13	0.75
37	0		0.75	0.57	2.25	0.25	0.51	0.19	11.38	0.50
38	0		3.19	1.07	3.38	0.38	0	0.29	7.25	0
39	0		2.31	0.59	4.50	0.30	0.50	0.23	7.75	
40	0		1.50	0.77	4.25	0.35	0.61	0.18	6.38	
41	0.26		5.50	0.63	4.63	0.25	0.44	0.05	4.88	
42	0		3.88	0.48	3.25	0	0.52	0.04	2.75	
43	0.20		4.63	0.63	1.38		0	0	1.00	
44	0		23.12	0.38	0.75			0	0.25	
45	0		1.13	0.38	0			0	0.38	
46	0.50		1.75	0.47				0	0	
47	0.30		0.63	0				0	0.25	
48	0		0.88					0.8	0.63	
49	0.58		0.50					2.14	1.63	
50	0.60		0.13					0.43	1.00	
51	0.30		0					1.43	1.13	
52	0		0					0.81	0.75	
1	0.65									
2	0.73									

ET 6. Monitoring of corn ear borer, *Helicoverpa armigera* (Hubner) by pheromone traps at different AICRP locations during *Kharif* and *Spring* 2019

Table 27. Monitoring of *H.armigera* by pheromone traps during *kharif* at Karnal and Delhi

Number of traps and lures installed/acre: 4, Number of locations: 2

Standard Meteorological week	**No. of *Helicoverpa armigera* moths/trap/week (Mean of two locations)**	
	Karnal	**Delhi**
32	Installation of traps	-
33	0	-
34	0	-
35	0	Installation of traps
36	0.63	0.00
37	0.38	0.75
38	3.13	1.50
39	1	1.63
40	0	6.88
41	0	10.00
41	0	1.38
43	0	1.25
44	0	0.38
45	0	0

In Kharif season no trap catches were observed in Ludhiana

Table 28. Monitoring of *Helicoverpa armigera* by pheromone traps in *spring* sown maize at Ludhiana during 2019

Standard Meteorological week	**No. of *Helicoverpa armigera* moths/trap/week (Mean of two locations)**
11	Installation of traps
12	0.86
13	3.00
14	5.86
15	4.71
16	6.29
17	15.29
18	19.29
19	8.29
20	7.29
21	3.86
22	2.86
23	1.86
24	0.71

ET 7. Evaluation of insecticides as seed treatment against fall armyworm (FAW) during *Kharif* 2019

Table 29. Efficacy of seed treatment against fall armyworm on maize during *Kharif* 2019 at Hyderabad

Variety: CMH (M) 08, Date of Sowing: .08.2019, No .of Treatments: 12, Number of Rows : 8,Row length:2.0 m, Replications: 3

Treatments	Dose	Mean percent plant Infestation				Mean whorl feeding injury (Davis scale 1-9)				Grain Yield (q/ha)
		7 DAG	14 DAG	28 DAG	Overall	7 DAG	14 DAG	28 DAG	Overall	
T1-Thiamethoxam 30 FS	6ml/kg	53.89 (47.25)	62.22 (52.16)	70.00 (56.88)	62.04	1.53	4.97	5.30	3.93	69.74
T2-Thiamethoxam 30 FS	8ml/kg	45.56 (42.41)	67.22 (55.24)	83.89 (66.50)	65.56	1.58	4.60	4.90	3.69	72.67
T3-Thiamethoxam 30 FS	10ml/kg	47.22 (43.40)	70.56 (60.28)	88.33 (70.52)	68.70	1.83	4.20	4.80	3.61	67.81
T4-Imidaclprid 600 FS	6ml/kg	42.78 (40.72)	56.11 (48.80)	81.11 (65.42)	60.00	1.20	5.00	5.20	3.80	72.63
T5-Imidaclprid 600 FS	8ml/kg	56.67 (48.90)	67.78 (55.93)	81.67 (64.90)	68.70	1.60	4.90	4.90	3.80	72.19
T6-Imidaclprid 600 FS	10ml/kg	52.78 (46.56)	60.00 (51.22)	58.89 (50.16)	57.22	1.37	3.60	4.80	3.26	68.00
T7-Fipronil 5 SC	6ml/kg	35.56 (36.50)	68.33 (56.70)	91.67 (73.44)	65.19	1.77	4.97	5.43	4.06	67.96
T8-Fipronil 5 SC	8ml/kg	42.22 (40.25)	54.44 (47.58)	60.56 (51.59)	52.41	1.68	4.40	5.20	3.76	65.19
T9-Fipronil 5 SC	10ml/kg	56.11 (48.61)	75.56 (61.29)	69.44 (56.71)	67.04	1.72	3.93	4.67	3.44	68.00
T10- Cyantraniliprole 19.8%+Thiamethoxam 19.8%	4ml/kg	42.78 (40.84)	52.22 (46.27)	55.56 (48.23)	50.19	1.43	2.00	2.80	2.08	72.70
T11- Cyantraniliprole 19.8%+Thiamethoxam 19.8%	6ml/kg	29.44 (32.81)	38.33 (38.24)	51.67 (45.97)	39.81	1.48	2.30	2.47	2.08	74.00
T12-Untreated control	---	65.56 (54.07)	87.22 (69.12)	95.56 (78.00)	82.78	2.57	5.40	6.27	4.74	49.80
CD (5%)		10.48	11.17	13.80		0.20	0.10	0.10		**10.79**
CV		14.22	12.31	13.43		9.25	2.99	2.77		**12.49**

Figures in parantheses are Angular transformed values

Table 30. Efficacy of seed treatment against fall armyworm on maize during *Kharif* 2019 at Godhra

Variety: CMH (M) 08, Date of Sowing: 08.2019, Treatments: 12, Number of Rows :, Row length: m, Replications: 3

Treatments	Dose	Mean percent plant Infestation				Mean whorl feeding injury (Davis scale 1-9)				Grain Yield(q/ha)
		7 DAG	14 DAG	28 DAG	Overall	7 DAG	14 DAG	28 DAG	Overall	
T1-Thiamethoxam 30 FS	6ml/kg	16.67 (24.05)	98.33 (85.14)	100.00 (89.17)	71.67	1.20	5.25	5.73	4.06	64.07
T2-Thiamethoxam 30 FS	8ml/kg	5.00 (8.15)	98.33 (85.14)	100.00 (89.17)	67.78	1.07	5.07	5.20	3.78	66.17
T3-Thiamethoxam 30 FS	10ml/kg	1.67 (4.86)	100.00 (89.17)	100.00 (89.17)	67.22	1.02	4.53	5.03	3.53	75.10
T4-Imidaclprid 600 FS	6ml/kg	3.33 (8.89)	98.33 (85.14)	100.00 (89.17)	67.22	1.03	5.35	5.56	3.98	74.27
T5-Imidaclprid 600 FS	8ml/kg	6.67 (14.76)	100.00 (89.17)	100.00 (89.17)	68.89	1.07	5.25	5.23	3.85	74.30
T6-Imidaclprid 600 FS	10ml/kg	5.00 (12.92)	85.00 (67.41)	100.00 (89.17)	63.33	1.05	3.33	5.03	3.14	75.33
T7-Fipronil 5 SC	6ml/kg	3.33 (8.89)	91.67 (76.56)	100.00 (89.17)	65.00	1.03	5.12	5.65	3.93	72.00
T8-Fipronil 5 SC	8ml/kg	3.33 (8.89)	96.67 (83.30)	100.00 (89.17)	66.67	1.03	4.97	5.42	3.81	73.17
T9-Fipronil 5 SC	10ml/kg	5.00 (12.92)	93.33 (77.43)	100.00 (89.17)	66.11	1.05	4.28	4.95	3.43	73.50
T10- Cyantraniliprole 19.8%+Thiamethoxam 19.8%	4ml/kg	0.00 (0.83)	43.33 (41.13)	91.67 (75.98)	45.00	1.00	1.48	3.22	1.90	77.00
T11- Cyantraniliprole 19.8%+Thiamethoxam 19.8%	6ml/kg	0.00 (0.83)	28.33 (31.74)	76.67 (61.22)	38.33	1.13	1.30	2.60	1.68	79.83
T12-Untreated control	---	61.67 (51.76)	100.00 (89.17)	100.00 (89.17)	87.22	1.80	5.58	6.43	4.61	63.00
CD(5%)		9.12	11.15	5.93		0.03	0.12	0.11		8.09
CV		36.96	8.77	4.09		1.87	3.54	2.94		7.69

Phytotoxicity – Not observed in all the treatments, Figures in parantheses are Angular transformed values

Table 31. Efficacy of seed treatment against fall armyworm on maize during *Kharif* 2019 at Rahuri

Variety: CMH (M) 08, Date of Sowing: 07.08.2019, Treatments: 12, Number of Rows :8, Row length: 4.0 m, Replications: 3

Treatments	Dose	Mean per cent plant Infestation				Mean whorl feeding injury (Davis scale 1-9)				Grain Yield (q/ha)
		7DAG	14 DAG	28 DAG	Overall	7DAG	14 DAG	28 DAG	Overall	
T1-Thiamethoxam 30 FS	6ml/kg	11.67 (19.93)	16.25 (23.76)	75.42 (60.63)	34.44	1.87	2.45	4.73	3.02	51.70
T2-Thiamethoxam 30 FS	8ml/kg	12.50 (20.69)	15.00 (22.78)	75.00 (60.59)	34.17	1.90	2.13	4.97	3.00	55.30
T3-Thiamethoxam 30 FS	10ml/kg	16.67 (24.07)	18.33 (25.35)	80.42 (64.88)	38.47	2.23	2.53	5.03	3.27	54.07
T4-Imidaclprid 600 FS	6ml/kg	13.75 (21.75)	17.92 (25.02)	78.33 (62.92)	36.67	2.12	2.63	4.42	3.06	54.33
T5-Imidaclprid 600 FS	8ml/kg	12.92 (21.04)	16.25 (23.76)	82.08 (66.28)	37.08	2.08	2.33	4.98	3.13	52.40
T6-Imidaclprid 600 FS	10ml/kg	14.17 (22.11)	18.33 (25.31)	76.25 (61.01)	36.25	2.25	2.65	5.17	3.36	50.03
T7-Fipronil 5 SC	6ml/kg	14.58 (22.42)	21.67 (27.73)	72.08 (58.22)	36.11	2.33	3.10	5.10	3.51	49.90
T8-Fipronil 5 SC	8ml/kg	16.25 (23.76)	20.42 (26.86)	80.42 (64.34)	39.03	2.58	3.58	5.10	3.76	51.50
T9-Fipronil 5 SC	10ml/kg	18.33 (25.35)	23.33 (28.88)	81.25 (64.64)	40.97	2.58	3.35	5.03	3.66	53.40
T10- Cyantraniliprole 19.8%+Thiamethoxam 19.8%	4ml/kg	17.08 (24.40)	23.33 (28.88)	85.00 (68.77)	41.81	2.47	3.72	5.10	3.76	53.87
T11- Cyantraniliprole 19.8%+Thiamethoxam 19.8%	6ml/kg	16.67 (24.09)	22.50 (28.31)	84.17 (67.01)	41.11	2.45	3.45	5.37	3.76	51.90
T12-Untreated control	---	39.17 (38.73)	45.00 (42.13)	96.25 (79.31)	60.14	2.68	4.40	6.78	4.62	42.03
CD (5 %)		2.16	1.93	NS		0.12	0.14	0.13		**4.60**
CV		5.34	4.16	12.17		4.60	4.61	3.46		**5.26**

Figures in parantheses are Angular transformed values

ET 8. Evaluation of bio-pesticides against fall armyworm during *Kharif* 2019 at different locations (1st Year)

Table 32. Efficacy of bio-pesticides against fall armyworm during *Kharif* 2019 at Hyderabad

Cultivar : CMH (M) 08, ,Date of sowing: 08.08.2019,No. of treatments: 10, No. of replications: 3,No. of rows/treatment: 6, Row length: 3.0 m

Date of 1st spray: 30.08.2019 , Date of 2nd spray: 19.09.2019

S. No.	Treatment	Dose	Per cent Plant infestation			Mean number of Larvae/ plant		Mean whorl feeding injury Davis score (1-9)	Mean ear damage rating(1-9 scale	Grain yield (q/ha)
			Pre treatment	10 days after 1st spray	10 days after 2nd spray	Pre treatment count	Post treatment count (No. of dead larvae/ plant)	45 DAG		
1	EPN Heterorhabdus indica NBAIR Hi101@ 4 kg/acre	10 g/l	32.60 (34.78)	28.80 (32.39)	21.20 (27.38)	0.68	0.13	2.57	1.54	50.04
2	Pseudomonas flourescens (PfDWD 1%)	20 g/l	32.60 (34.80)	29.50 (32.89)	22.40 (28.18)	0.68	0.10	2.77	1.57	44.19
3	NBAIR Bt 2%	2 ml/l	35.70 (36.71)	32.30 (34.65)	26.30 (30.80)	0.78	0.07	2.80	1.57	46.07
4	Metarhizium anisopliae NBAIR- Ma 35	5 g/l	37.80 (37.90)	32.00 (34.43)	26.40 (30.91)	0.78	0.07	2.50	1.37	39.96
5	Metarhizium anisopliae NBAIR- Ma 45	5 g/l	32.80 (34.93)	28.30 (32.16)	23.30 (28.84)	0.63	0.08	2.70	1.65	40.74
6	Beauveria bassiana NBAIR Bb45	5 g/l	32.60 (34.84)	30.00 (33.21)	24.30 (29.50)	0.67	0.05	3.63	1.30	36.48
7	Bacillus thuringiensis var kurstaki 32000 ITU/mg	2 g/l	35.80 (36.72)	29.80 (33.03)	23.40 (28.87)	0.78	0.03	3.57	1.80	45.26
8	Beauveria bassiana 2 x 108 spores/ ml (Market)	5 ml/l	34.10 (35.74)	30.90 (33.78)	21.60 (27.72)	0.70	0.05	2.63	1.53	48.15
9	Metarhizium anisopliae 2 x 108 spores/ml (Market)	5 ml/l	32.60 (34.78)	31.50 (34.12)	24.30 (29.53)	0.65	0.07	3.33	1.87	38.07
10	Untreated control	---	38.30 (38.24)	46.30 (42.86)	48.20 (43.95)	0.73	0.02	5.17	2.43	31.74
	CD (5%)		NS	3.36	3.23	NS	NS	0.18	0.15	0.54
	CV		4.96	5.70	6.16	4.19	10.91	5.58	6.66	4.88

Table 33. Efficacy of bio-pesticides against fall armyworm and natural enemies population on maize during *Kharif* 2019 at Hyderabad

S. No.	Treatment	Dose	Natural enemies (Pre treatment count)		Natural enemies (Post treatment count)		
			Earwigs	Coccinellids	Earwigs	Coccinellids	Spiders
1	EPN Heterorhabdus indica NBAIR Hi101@ 4 kg/acre	10 g/l	0.33	2.00	2.00	3.33	0.67
2	Pseudomonas flourescens (PfDWD 1%)	20 g/l	0.00	0.67	2.67	2.33	1.33
3	NBAIR Bt 2%	2 ml/l	0.67	0.00	5.33	2.33	0.67
4	Metarhizium anisopliae NBAIR-Ma 35	5 g/l	0.67	1.00	1.67	5.00	0.00
5	Metarhizium anisopliae NBAIR-Ma 45	5 g/l	0.67	1.30	2.33	2.00	0.67
6	Beauveria bassiana NBAIR Bb45	5 g/l	2.33	2.00	3.33	3.00	0.67
7	Bacillus thuringiensis var kurstaki 32000 ITU/mg	2 g/l	0.00	1.67	3.00	2.67	0.00
8	Beauveria bassiana 2 x 108 spores/ ml (Market)	5 ml/l	0.67	2.00	2.67	3.33	0.33
9	Metarhizium anisopliae 2 x 108 spores/ml (Market)	5 ml/l	0.00	1.30	2.67	4.00	0.00
10	Untreated control	---	0.33	1.67	3.67	2.33	0.33
	CD 5%		NS	NS	NS	NS	NS
	CV		38.91	27.27	27.52	23.50	37.22

Table 34. Efficacy of bio-pesticides against fall armyworm during *Kharif 2019* at Coimbatore

Cultivar : CMH (M) 08, Date of sowing: 23.08.2019,Numbe r of treatments:10, Number of replications:3, No. of rows : 6 rows,

Row length: 2.5 m

Date of 1st spray: 20.09.2019 (Average FAW score – 3.4 to 4.9), Date of 2nd spray: not done due to rains

S. No.	Treatment	Dose	Mean Per cent plant infestation					Mean Davis score (1-9 Scale)					Mean ear damage rating (1-9 scale)	Grain yield (q/ha)
			Pre-treatment	3 days after 1st spray	7 days after 1st spray	10 days after 1st spray	Overall Mean	Pre-treatment	3 days after 1st spray	7 days after 1st spray	10 days after 1st spray	Overall Mean		
1	EPN *Heterorhabdus indica* NBAIR Hi101@ 4 kg/acre	10 g/l	80.00 (63.55)	78.33 (62.41)	78.33 (62.48)	75.00 (60.08)	77.22	4.17	4.23	3.80	6.72	4.92	1.70	63.25
2	*Pseudomonas flourescens* (PfDWD 1%)	20 g/l	78.33 (62.79)	76.67 (61.33)	75.00 (60.69)	73.33 (59.71)	75.00	4.03	4.00	3.35	8.23	5.19	3.07	62.87
3	NBAIR Bt 2%	2 ml/l	83.33 (65.95)	86.67 (69.24)	78.33 (62.29)	68.33 (56.15)	77.78	4.03	4.03	2.68	7.20	4.64	1.78	58.65
4	*Metarhizium anisopliae* NBAIR- Ma 35	5 g/l	75.00 (60.26)	71.67 (58.07)	51.67 (46.05)	53.33 (46.92)	58.89	3.87	4.00	2.75	6.32	4.36	1.67	62.95
5	*Metarhizium anisopliae* NBAIR- Ma 4	5 g/l	78.33 (62.91)	75.00 (60.31)	71.67 (58.69)	66.67 (54.83)	71.11	3.75	3.50	2.70	7.23	4.48	2.18	57.78
6	*Beauveria bassiana* NBAIR Bb45	5 g/l	88.33 (70.69)	91.67 (76.54)	81.67 (64.69)	78.33 (62.79)	83.89	3.47	3.38	4.23	6.83	4.81	1.82	54.00
7	*Bacillus thuringiensis var kurstaki* 32000 ITU/mg	2 g/l	88.33 (70.69)	83.33 (66.26)	85.00 (67.41)	80.00 (63.93)	82.78	4.38	3.98	4.47	8.68	5.71	2.52	63.32
8	*Beauveria bassiana* 2 x 10^8 spores/ ml (Market)	5 ml/l	78.33 (62.91)	81.67 (65.62)	73.33 (60.00)	68.33 (56.03)	74.44	3.88	3.53	3.57	8.18	5.09	2.80	58.51
9	*Metarhizium anisopliae* 2 x 10^8 spores/ml (Market)	5 ml/l	80.00 (63.74)	85.00 (71.03)	76.67 (61.33)	71.67 (58.26)	77.78	4.22	4.28	3.32	7.17	4.92	1.63	60.08
10	Untreated control	---	78.33 (66.62)	86.67 (72.48)	85.00 (72.31)	90.00 (75.39)	87.22	3.28	4.20	5.92	8.15	6.09	3.22	56.00
	CD 5%		NS	NS	NS	NS		NS	NS	NS	NS		NS	NS
	CV		14.49	15.61	16.85	14.70		8.08	8.24	12.17	7.88		11.27	10.31

Figures in parantheses are Angular transformed values

Table 35. Efficacy of bio-pesticides against fall armyworm during *Kharif 2019* at at Kolhapur

Cultivar : CMH (M) 08, Date of Sowing: 18-08-2019, No. of treatments: 10, No. of replications: 3,No. of rows/treatment: 10

Row length: 2.0 m, Date of 1st spray: 11.09.2019

S. No.	Treatment	Dose	Mean Per cent Plant infestation			Overall Mean	Grain yield (q/ha)
			7 days after 1st spray	14 days after 1st spray	28 days after 1st spray		
1	EPN *Heterorhabdus indica* NBAIR H38@ 4 kg/acre	10 g/l	9.81 (18.24)	20.18 (26.70)	96.47 (80.02)	42.15	103.30
2	*Psuedomonas flourescens* (DfDWD 1%)	20 g/l	7.51 (15.88)	20.53 (26.89)	94.02 (76.36)	40.69	97.17
3	NBAIR Bt 2%	2 ml/l	9.59 (17.80)	24.73 (29.80)	97.11 (80.47)	43.81	104.76
4	*Metarhizium anisopliae* NBAIR- Ma 35 0.5%	5 g/l	12.47 (20.65)	26.44 (30.86)	95.25 (77.60)	44.72	103.44
5	*Bacillus thuringiensis var. kurstagi* 17600 IU,mg	5 g/l	13.42 (21.40)	27.74 (31.75)	97.30 (82.47)	46.15	101.36
6	EPN 5.1 x 10^4 U/g	5 g/l	18.71 (25.26)	34.79 (36.14)	96.47 (79.49)	49.99	101.11
7	*Beauveria bassiana* 2 x 10^8 spores/ml	2 g/l	18.29 (25.28)	36.18 (36.96)	93.69 (75.98)	49.39	87.18
8	*Metarhizium anisopliae* 2 x 10^8 spores/ml	5 ml/l	26.36 (30.87)	42.32 (40.79)	95.51 (78.12)	54.73	85.60
9	*Beauveria bassiana* 2.5% WP 2 x 10^8 spores/ml	5 ml/l	29.97 (33.13)	42.70 (40.79)	94.86 (77.76)	55.84	88.72
10	Untreated control	---	66.38 (54.60)	84.51 (67.06)	95.33 (80.35)	82.08	85.78
	CD (5%)		4.17	4.06	NS		NS
	CV		9.23	6.44	5.89		10.23

Figures in parantheses are Angular transformed values

ET9: Study on incidence of spotted stem borer, *Chilo partellus* in *Kharif* sown maize in relation to plant age and meteorological factors (3rd year)

Table 36. Population dynamics of *C. partellus* in *Kharif* maize at Ludhiana

Name of the cultivars: PMH 1and JC 4; Sowing interval: biweekly sowing starting from 12.06.2019 to 25.07.2019, Plot size/sowing interval: 6 rows, 3 m

PMH 1	% infestation						No. of larvae/plant					
	Crop establishment						Crop establishment					
Crop age(days)	17 June	29 June	9 July	23 July	30 July	Mean	17 June	29 June	9 July	23 July	30 July	Mean
8	0.87	1.82	1.01	1.92	1.87	1.50	3.00	3.00	4.00	2.50	2.00	2.90
15	2.63	8.77	4.08	2.94	4.76	4.64	2.33	2.80	2.75	1.33	1.40	2.12
22	9.01	5.56	4.26	1.01	1.00	4.17	2.40	1.83	1.75	1.00	2.00	1.80
29	5.94	1.02	1.11	0.00	0.00	1.61	1.67	2.00	2.00			1.89
36	3.16	1.09	0.00	0.00	0.00	0.85	1.67	1.00				1.34
43	2.17	0.00	0.00	0.00	0.00	0.43	3.00					3.00
50	0.00	0.00	0.00	0.00	0.00	0.00						
57	0.00	0.00	0.00	0.00		0.00						
64	0.00	0.00	0.00			0.00						
71	0.00	0.00				0.00						
78	0.00					0.00						
85	0.00					0.00						
Infestation (%)/ crop	21.4	18.18	10.10	5.77	7.48	12.65	2.20	2.40	2.40	1.67	1.63	2.06

JC 4	**% infestation**						**No. of larvae/plant**					
	Crop establishment						**Crop establishment**					
Crop age(days)	17 June	29 June	9 July	23 July	30 July	Mean	17 June	29 June	9 July	23 July	30 July	Mean
8	1.71	1.94	1.98	1.83	2.88	2.068	3.00	2.50	3.50	3.00	1.33	2.67
15	3.48	9.90	7.07	2.80	4.95	5.64	2.25	2.80	1.57	1.67	1.60	1.98
22	8.11	4.40	4.35	0.96	0.00	3.564	2.33	2.75	1.50	1.00		1.90
29	2.94	1.15	1.14	0.00	0.00	1.046	1.67	1.00	2.00			1.56
36	1.01	0.00	0.00	0.00	0.00	0.202	2.00					2.00
43	0.00	0.00	0.00	0.00	0.00	0						
50	0.00	0.00	0.00	0.00		0						
57	0.00	0.00	0.00	0.00		0						
64	0.00	0.00	0.00			0						
71	0.00	0.00				0						
78	0.00					0						
85	0.00					0						
Infestation (%)/ crop	16.24	16.50	13.86	5.50	7.34	11.888	2.26	2.65	1.86	2.00	1.50	2.05

Table 37. Population dynamics of *C. partellus* in *Kharif* maize at Karnal

Name of the cultivars: HQPM 1 and HM 10; Sowing interval: weekly sowing from 27.6.2019 to 1.8.2019. Plot size/sowing interval: 5 rows, 3 m

HQPM-1	**% infestation**							**No. of larvae/plant**						
	Crop establishment							**Crop establishment**						
Crop age(days)	1 July	8 July	15 July	22 July	29 July	5 August	Mean	1 July	8 July	15 July	22 July	29 July	5 August	Mean
8	13.33	10.67	21.33	6.67	8.00	5.33	10.89	6.50	5.25	4.25	4.20	4.00	3.25	4.58
15	24.62	29.85	38.98	22.86	15.94	9.86	23.69	5.69	4.80	4.57	4.50	6.00	3.00	4.76
22	20.41	19.15	22.22	11.11	10.34	6.25	14.91	3.60	4.56	3.13	4.00	3.17	3.00	3.58
29	10.26	13.16	10.71	10.42	9.43	0.00	9.00	3.75	3.20	3.67	3.40	4.00		3.60
36	8.57	12.12	0.00	0.00	0.00		4.14	4.67	2.25	-	-	-		3.46
43	0.00	0.00	0.00	0.00			0.00	-	-	-	-			
50	0.00	0.00	0.00				0.00	-	-	-				
57	0.00	0.00					0.00	-	-					
64	0.00						0.00	-						
Infestation (%)/crop	57.33	61.33	66.67	42.67	37.33	20.00	47.56	5.14	4.43	4.18	4.19	4.61	3.07	4.27

HM-10	**% infestation**							**No. of larvae/plant**						
	Crop establishment													
Crop age(days)	1 July	8 July	15 July	22 July	29July	5 August	Mean	1 July	8 July	15 July	22 July	29 July	5 August	Mean
8	8.00	9.33	6.67	5.33	5.33	4.00	6.44	7.00	4.43	4.80	4.00	3.50	4.00	4.62
15	14.49	17.65	20.00	16.90	12.68	6.94	14.78	7.40	6.33	5.07	5.08	4.22	4.40	5.42
22	10.17	14.29	8.93	8.47	8.06	4.48	9.07	2.83	4.25	6.00	3.60	4.20	4.33	4.20
29	3.77	10.42	1.96	7.41	5.26	0.00	4.80	4.50	4.00	5.00	3.00	3.00		3.90
36	1.96	4.65	0.00	0.00	0.00		1.32	4.00	3.50	-	-	-		3.75
43	0.00	0.00	0.00	0.00			0.00	-	-	-	-			
50	0.00	0.00	0.00				0.00	-	-	-				
57	0.00	0.00					0.00	-	-					
64	0.00						0.00	-						
Infestation (%)/crop	33.33	45.33	33.33	33.33	28.00	16.92	31.71	5.84	4.94	5.20	4.28	3.90	4.27	4.74

Table 38. Population dynamics of *C. partellus* in *Kharif* maize at Udaipur

Name of the cultivars: Pratap Hybrid Maize -3 and Pratap QPM Hybrid - 1; Sowing interval: weekly sowing starting from 12.06.2019 to 31.07.2019, Plot size/sowing interval: 5 rows, 3 m

Pratap Hybrid Maize – 3	**% infestation**									**No. of larvae/plant**								
	Crop establishment									**Crop establishment**								
Crop age(days)	18 June	25 June	2 July	10 July	16 July	23 July	30 July	6 August	Mean	18 June	25 June	2 July	10 July	16 July	23 July	30 July	6 August	Mean
8	6.25	12.82	7.79	9.33	10.14	5.97	6.15	5.88	8.04	1.60	1.20	1.33	1.14	1.29	1.50	1.00	1.25	1.29
15	8.00	11.76	5.63	5.88	12.90	7.94	3.28	4.69	7.51	1.17	1.25	1.00	1.25	1.13	1.00	1.50	1.00	1.16
22	4.35	10.00	4.48	6.25	11.11	5.17	1.69	3.28	5.79	1.00	1.17	1.00	1.50	1.17	1.00	1.00	1.00	1.11
29	3.03	11.11	1.56	5.00	6.25	3.64	1.72	3.39	4.46	1.00	1.00	1.00	1.33	1.00	1.00	1.00	1.00	1.04
36	3.13	8.33	1.59	3.51	4.44	1.89	1.75	1.75	3.30	1.00	1.25	1.00	1.00	1.00	1.00	1.00	1.00	1.03
43	1.61	6.82	3.23	5.45	2.33	1.92	1.79	0.00	2.89	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	1.00
50	3.28	4.88	5.00	3.85	0.00	0.00	0.00	0.00	2.13	1.00	1.00	1.00	1.00	-	-	-	-	1.00
57	1.69	5.13	1.75	0.00	0.00	0.00	0.00		1.22	1.00	0.50	1.00	-	-	-	-		0.83
64	0.00	0.00	0.00	0.00	0.00	0.00			0.00	-	-	-	-	-	-			-
71	0.00	0.00	0.00						0.00	-	-	-						-
78	0.00	0.00							0.00	-	-							-
85	0.00								0.00	-								-
Infestation (%)/ crop	27.50	52.56	27.27	33.33	39.13	23.88	15.38	17.65	29.59	1.18	1.12	1.10	1.20	1.15	1.13	1.10	1.08	1.13

Pratap QPM Hybrid – 1	**% infestation**									**No. of larvae/plant**								
	Crop establishment									**Crop establishment**								
Crop age(days)	18 June	25 June	2 July	10 July	16 July	23 July	30 July	6 August	Mean	18 June	25 June	2 July	10 July	16 July	23 July	30 July	6 August	Mean
8	9.76	10.00	7.59	8.70	6.25	9.23	9.33	7.58	8.56	1.25	1.14	1.33	1.17	1.50	1.17	1.14	1.20	1.24
15	12.16	12.70	10.96	14.29	13.33	11.86	5.88	6.56	10.97	1.00	1.25	1.25	1.11	1.25	1.29	1.25	1.25	1.21
22	9.23	10.91	6.15	9.26	7.69	9.62	3.13	5.26	7.66	1.33	1.17	1.25	1.20	1.00	1.00	1.00	1.00	1.12
29	3.39	4.08	3.28	6.12	4.17	6.38	1.61	1.85	3.86	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.06
36	1.75	2.13	5.08	4.35	6.52	0.00	0.00	1.89	2.72	1.0	1.0	1.0	1.0	1.0	-	-	1.0	1.00
43	1.79	2.17	5.36	2.27	6.98	0.00	0.00	0.00	2.32	1.0	1.0	1.0	1.0	1.0	-	-	-	1.00
50	1.82	4.44	3.77	0.00	0.00	0.00	0.00	0.00	1.25	1.0	1.0	1.0	-	-	-	-	-	1.00
57	0.00	2.33	0.00	0.00	0.00	0.00	0.00		0.33	-	1.0	-	-	-	-	-		1.00
64	0.00	0.00	0.00	0.00	0.00	0.00			0.00	-	-	-	-	-	-			-
71	0.00	0.00	0.00		0.00				0.00	-	-	-		-				-
78	0.00	0.00							0.00	-	-							-
85	0.00								0.00	-								-
Infestation(%)/ crop	**34.15**	**40.00**	**35.44**	**37.68**	**37.50**	**32.31**	**18.67**	**21.21**	**32.12**	**1.18**	**1.14**	**1.18**	**1.12**	**1.17**	**1.14**	**1.14**	**1.14**	1.15

Table 39. Population dynamics of *C. partellus* in *Kharif* maize at Hyderabad

Name of the cultivars: CM 400 and CM 500; Sowing interval: weekly sowing starting from 15-6-2017 to 22-7-2029 Plot size/sowing interval: 5 rows, 3 m

%infestation								**No. of larvae/plant**						
CM 400	**Crop establishment**							**Crop establishment**						
Crop age(days)	20 June	30 June	5 July	14 July	20 July	26 July	Mean	20 June	30 June	5 July	14 July	20 July	26 July	Mean
8	12.82	17.14	19.23	18.33	12.99	30.77	18.55	0.10	0.00	0.00	0.27	0.30	0.20	0.15
15	22.06	27.59	21.43	16.33	20.90	24.44	22.13	0.13	0.06	0.44	0.25	0.29	0.27	0.24
22	30.19	19.05	30.30	14.63	13.21	38.24	24.27	0.13	0.50	0.50	1.00	0.71	0.23	0.51
29	18.92	35.29	34.78	22.86	19.57	19.05	25.08	0.86	0.50	0.38	0.63	0.33	0.50	0.53
36	26.67	36.36	46.67	25.93	10.81	29.41	29.31	0.38	0.38	0.71	0.00	0.50	0.20	0.36
43	31.82	64.29	100.00	20.00	15.15	41.67	45.49	0.57	0.44	0.25	0.25	0.80	0.00	0.39
50	46.67	100.00		18.75	28.57	85.71	55.94	0.71	0.00		1.33	0.00	0.17	0.44
57	100.00			30.77	30.00	100.00	65.19	0.00			0.50	0.00	1.00	0.38
64					35.71		35.71					0.00		0.00
Infestation (%)/ crop	100.00	100.00	100.00	85.00	88.31	100.00	95.55	0.29	0.26	0.37	0.45	0.31	0.23	0.32

%infestation								**No. of larvae/plant**						
CM 500	**Crop establishment**							**Crop establishment**						
Crop age(days)	20 June	30 June	5 July	14 July	20 July	26 July	Mean	20 June	30 June	5 July	14 July	20 July	26 July	Mean
8	5.68	5.88	7.69	12.12	8.96	15.38	9.29	0.00	0.20	0.00	0.00	0.17	0.17	0.09
15	6.02	10.00	11.67	10.34	6.56	15.15	9.96	0.00	0.00	0.29	0.50	0.50	0.10	0.23
22	6.41	5.56	9.43	17.31	8.77	16.07	10.59	0.20	0.50	0.40	0.22	0.40	0.22	0.32
29	5.48	8.82	18.75	11.63	7.69	10.64	10.50	0.25	0.33	0.11	0.40	0.00	0.00	0.18
36	4.35	4.84	5.13	15.79	4.17	9.52	7.30	0.67	0.00	1.00	0.50	0.50	0.25	0.49
43	6.06	6.78	8.11	12.50	2.17	7.89	7.25	0.00	0.25	0.00	0.00	2.00	0.00	0.38
50	4.84	3.64	0.00	0.00	6.67	5.71	3.48	0.00	0.00	-	-	0.33	0.00	0.08
57	3.39	7.55	0.00	3.57	2.33	6.06	3.82	0.00	0.00	-	0.00	0.00	0.00	0.00
64				0.00	0.00	3.23	1.08				-	-	0.00	0.00
Infestation (%)/ crop	35.23	42.35	47.69	59.09	38.81	61.54	47.45	0.13	0.17	0.23	0.26	0.35	0.13	0.21

Table 40. Population dynamics of *C. partellus* in *Kharif* maize at Imphal

Name of the cultivars: Vijay Hybrid and Gx888; Sowing interval: weekly sowing starting from 10.7.2019 to 16.8.2018,

Plot size/sowing interval: 4 rows, 3 m

Hybrid Vijay	**% infestation**							**No. of larvae/plant**						
	Crop establishment							**Crop establishment**						
Crop age(days)	15 July	22 July	29 July	7 August	14August	20 August	Mean	15 July	22 July	29 July	7 August	14August	20 August	Mean
8	0.00	0.00	6.00	2.00	4.00	4.00	2.67			1.00	2.00	1.00	1.00	1.25
15	8.00	6.00	4.26	4.08	2.08	2.08	4.42	1.00	3.33	1.00	1.00	0.00	0.00	1.06
22	10.87	10.64	0.00	0.00	2.13	2.13	4.30	1.60	1.60	-	-	1.00	1.00	1.30
29	17.07	4.76	0.00	0.00	0.00	0.00	3.64	2.00	1.50	-	-	-	-	1.75
36	14.29	2.50	2.22	4.44	0.00	2.17	4.27	1.20	1.00	3.00	1.50	-	1.00	1.54
43	10.00	2.56	2.27	2.27	2.17	0.00	3.21	1.33	1.00	1.00	0.00	0.00	-	0.67
50	7.41	0.00	0.00	2.33	0.00	2.22	1.99	2.00	-	-	0.00	-	1.00	1.00
57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	-	-	-	-
Infestation (%)/crop	52.00	24.00	14.00	14.00	10.00	12.00	21.00	1.54	1.92	1.29	1.00	0.60	0.83	1.20

Gx888	**% infestation**							**No. of larvae/plant**						
	Crop establishment													
Crop age(days)	15 July	22 July	29 July	7 August	14August	20 August	Mean	15 July	22 July	29 July	7 August	14August	20 August	Mean
8	0.00	0.00	0.00	0.00	2.00	2.00	0.67	-	-	-	-	1.00	1.00	1.00
15	4.00	4.00	2.00	0.00	2.04	0.00	2.01	2.00	1.50	1.00	-	0.00	-	1.13
22	8.33	6.25	2.04	4.00	0.00	2.04	3.78	1.75	0.67	2.00	0.50	-	1.00	1.18
29	0.00	2.22	0.00	4.17	2.08	2.08	1.76	-	0.00	-	1.00	0.00	1.00	0.50
36	4.76	0.00	0.00	0.00	0.00	0.00	0.79	1.00	-	-	-	-	-	1.00
43	2.44	4.55	2.17	4.35	0.00	2.13	2.61	1.00	1.00	2.00	1.00	-	0.00	1.00
50	0.00	0.00	2.22	0.00	2.13	2.17	1.09	-	-	1.00	-	0.00	1.00	0.67
57	0.00	0.00	0.00	0.00	0.00	2.22	0.37	-	-	-	-	-	1.00	1.00
Infestation (%)/crop	18.00	16.00	8.00	12.00	8.00	12.00	12.33	1.56	0.88	1.50	0.83	0.25	0.83	0.98

ET 9B. Study on incidence of fall army worm,*Spodoptera frugiperda* in *Kharif* sown maize in relation to plant age and meteorological factors

Table 41. Population dynamics of *S. frugiperda* in *Kharif* maize at Udaipur

Name of the cultivars: Pratap Hybrid Maize -3 and Pratap QPM Hybrid - 1; Sowing interval: weekly sowing starting from 12.06.2019 to 31.07.2019, Plot size/sowing interval: 5 rows, 3 m

Pratap Hybrid Maize – 3	**% infestation**									**No. of larvae/plant**								
	Crop establishment									**Crop establishment**								
Crop age(days)	18 June	25 June	2 July	10 July	16 July	23 July	30 July	6 August	Mean	18 June	25 June	2 July	10 July	16 July	23 July	30 July	6 August	Mean
8	11.69	15.00	11.84	15.71	7.58	11.11	13.24	8.96	11.89	1.11	1.17	1.33	1.27	1.60	1.14	1.33	1.00	1.24
15	11.76	14.71	13.43	15.25	11.48	14.29	10.17	6.56	12.21	1.13	1.00	1.11	1.11	1.43	1.13	1.33	1.25	1.19
22	10.00	12.07	12.07	12.00	9.26	10.42	7.55	1.75	9.39	1.33	1.14	1.29	1.00	1.20	1.00	1.00	2.00	1.25
29	9.26	11.76	9.80	9.09	6.12	6.98	4.08	1.79	7.36	1.60	1.00	1.40	1.25	1.00	1.33	1.00	1.00	1.20
36	8.16	8.89	4.35	2.50	4.35	2.50	4.26	1.82	4.60	1.50	1.75	1.50	2.00	1.50	1.00	1.00	2.00	1.53
43	8.89	2.44	2.27	2.56	2.27	2.56	2.22	0.00	2.90	1.00	2.00	1.00	1.00	1.00	1.00	2.00		1.29
50	7.32	5.00	2.33	2.63	2.33	2.63	0.00	0.00	2.78	1.67	1.00	2.00	2.00	1.00	1.00			1.45
57	2.63	2.63	2.38	0.00	2.38	0.00	0.00		1.43	1.00	1.00	1.00		2.00				1.25
64	0.00	0.00	0.00	0.00	0.00	0.00			0.00									
71	0.00	0.00	0.00	0.00	0.00				0.00									
78	0.00	0.00	0.00						0.00									
85	0.00	0.00							0.00									
Infestation(%)/ crop	51.95	53.75	46.05	47.14	37.88	41.27	35.29	19.40	41.59	1.28	1.16	1.29	1.21	1.36	1.12	1.25	1.23	1.24
Pratap QPM Hybrid – 1	**% infestation**									**No. of larvae/plant**								
	Crop establishment									Crop establishment								
Crop age(days)	18 June	25 June	2 July	10 July	16 July	23 July	30 July	6 August	Mean	18 June	25 June	2 July	10 July	16 July	23 July	30 July	6 August	Mean
8	7.69	10.81	6.10	12.99	12.50	8.70	14.29	7.69	10.10	1.50	1.25	1.60	1.00	1.33	1.00	1.00	1.00	1.21
15	5.56	6.06	3.90	11.94	12.70	6.35	14.75	6.67	8.49	1.50	1.50	1.33	1.13	1.13	1.25	1.11	1.50	1.31
22	2.94	8.06	4.05	13.56	16.36	5.08	13.73	7.14	8.87	1.00	1.00	1.00	1.00	1.11	1.67	1.14	1.00	1.12

29	1.52	5.26	2.82	13.73	10.87	3.57	2.27	1.92	5.25	2.00	1.33	1.50	1.14	1.00	1.00	2.00	2.00	1.50
36	1.54	1.85	1.45	11.36	14.63	1.85	2.33	3.92	4.87	1.00	2.00	1.00	1.20	1.17	1.00	1.00	1.00	1.17
43	1.56	1.89	2.94	7.69	5.71	3.77	4.76	0.00	3.54	2.00	1.00	1.00	1.33	1.00	1.00	1.00		1.19
50	0.00	3.85	3.03	5.56	3.03	1.96	0.00	0.00	2.18		1.00	1.00	1.00	1.00	1.00			1.00
57	3.17	2.00	3.13	0.00	0.00	0.00	0.00		1.19	1.00	1.00	1.00						1.00
64	1.64	2.04	1.61	2.94	0.00	0.00			1.37	1.00	1.00	1.00	1.00					1.00
71	1.67	0.00	0.00	0.00	0.00				0.33	1.00								1.00
78	0.00	0.00	0.00						0.00									
85	0.00	0.00							0.00									
Infestation(%)/ crop	24.36	35.14	25.61	57.14	55.56	27.54	42.86	24.62	36.60	1.37	1.23	1.24	1.09	1.15	1.16	1.10	1.71	1.26

Table 42. Population dynamics of *S. frugiperda* in *Kharif* maize at Coimbatore

Inbreds	UMI 1201							UMI 1200					
	Date of sowing							Date of sowing					
Crop age (days)	19.06.2019	25.06.2019	03.07.2019	10.07.2019	17.07.2019	24.07.2019		19.06.2019	25.06.2019	03.07.2019	10.07.2019	17.07.2019	24.07.2019
7	1.2	1.6	1.9	2.4	1.1	1.9		1.1	2	2.1	2	1.2	1.1
14	1.8	2.1	1.8	2.8	1.4	1.4		1.9	2.2	1.6	2.4	1.7	1.6
21	2.2	3.4	2.4	3.1	1.8	2.4		2.4	3	2.6	3	1.6	2.8
28	2.8	3.1	2.7	3.4	2.4	2.5		3	3.5	2.8	3.1	2.5	2
35	3.4	3.4	3.1	3.9	2.8	3.5		3.5	3.2	3.4	3.5	2.9	3.9
42	3.9	3.8	3.4	4.4	3.5	3.9		4	3.6	3.9	4	3.9	4.5
49	3.8	3.6	3.8	3.1	3.5	2.1		3.8	4	4.1	2.5	4.5	2.3
56	1.8	2.1	2.2	2	4.5	2.4		2.1	2	2.3	2	4.5	2.8
63 *	0	0	0	0	0	0		0	0	0	0	0	0
70	0	0	0	0	0	0		0	0	0	0	0	0
77	0	0	0	0	0	0		0	0	0	0	0	0
84	0	0	0	0	0	0		0	0	0	0	0	0
91	0	0	0	0	0	0		0	0	0	0	0	0
98	0	0	0	0	0	0		0	0	0	0	0	0
105**	1.3	1.31	1.24	1.25	1.27	1.2		1.3	1.32	1.2	1.2	1.28	1.15
Mean	2.61	2.89	2.66	3.14	2.63	2.51		2.73	2.94	2.85	2.81	2.85	2.63

* Tasseling stage,** Ear and kernel damage rating

ET 10. Study of insect pest succession on maize during *kharif* 2019 at different locations

Table 43. Incidence of different insect pests on maize during *kharif* at Imphal

Variety: Hybrid Vijay, Date of sowing: 15/07/2019,Date of germination: 22/07/2019

No. of rows- 10 rows Row length: 3m

Weekly observations were taken from 10 randomly selected plants per plot.

Date of observation	Mean number of insets pests recorded/plant			
	Aphids	Spotted stem borer	fall armyworm	Cob borer
29.07.2019	12.0	0.0	0.0	0.0
05.08.2019	75.8	0.3	0.7	0.0
12.08.2019	169.0	0.8	1.5	0.3
19.08.2019	195.5	1.3	2.6	0.5
26.08.2019	154.0	2.0	5.5	0.7
02.09.2019	97.0	1.7	3.0	0.5
09.09.2019	58.9	1.0	2.3	0.3
16.10.2019	26.0	0.5	1.6	0.0
23.10.2019	8.8	0.0	1.1	0.1
30.10.2019	0.0	0.0	0.7	0.0

Table 44. Insect pests on maize during kharif 2019 at Hyderabad

Cultivar: DHM 117, Date of planting:15.07.2019, Date of germination: 20.07.2019

Row length 3.0m, Nnumber of row: 8

Date of observation	**Mean number of infested plants**	
	Spotted stemborer	fall **armyworm**
30.07.2019	13.9	24.5
14.08.2019	14.7	27.9
28.08.2019	14.7	27.9

Table 45. Incidence of insect pests on maize during *kharif* 2019 at Ludhiana

Name of cultivar : PMH 1 ; D O S : 12.6.19 ; D O G : 17.6.19

Number of rows: 20, Row length: 3 m

Date of observation	Mean number of *Chilo* infested plants	Mean Percent of dead hearts	Mean number of armyworm larvae/plant	Mean number of *Chiloloba acuta* adults/plant	Mean number aphids per plant
24.06.19	-	-	-	-	-
01.07.19	8.0	-	-	-	-
08.07.19	32.0	4.0	-	-	-
15.07.19	36.0	(8.0	-	-	-
22.07.19	36.0	16.0	-	-	-
29.07.19	36.0	16.0	-	-	-
05.08.19	36.0	16.0	-	-	-
12.08.19	36.0	16.0	-	-	-
19.08.19	36.0	16.0	-	-	-
26.08.19	36.0	16.0	-	1(0.4)	-
02.09.19	36.0	16.0	-	1(0.4)	19(0.76)
09.09.19	36.0	16.0	-	-	16(0.64)
16.09.19	36.0	16.0	1(0.4)	-	-
23.09.19	36.0	16.0	2(0.8)	-	-
30.09.19	36.0	16.0	1(0.4)	-	-

Figures in parantheses are mean percent
Observation: Weekly observation on insect-pests from predetermined 25 tagged plant

Table 46. Incidence of insect pests on maize during *Kharif* 2019 at Udaipur

Date of Planting:09.07.2019, Date of germination:16.07.2019

Number of rows:10 Row length : 2.5m

Date of observation (weekly intervals from date of germination	Spotted stem borer		fall Armyworm (FAW)		Mean No. of aphids per plant	Mean No. of Chafer beetle, *Chiloloba acuta*	Mean No. of termite infested plants
	Mean no. of infested plants	Mean No. of dead hearts formed	Mean No. of infested plants	Mean No. of larvae/ plant			
23.07.2019	0.05	0.05	0.10	0.15	-	-	-
30.07.2019	0.15	0.10	0.25	0.20	-	-	-
06.08.2019	0.35	0.25	0.45	0.10	-	-	-
13.08.2019	0.45	0.25	0.54	0.70	-	-	-
20.08.2019	0.52	0.40	0.54	0.80	-	-	-
27.08.2019	0.52	0.45	0.56	0.70	-	-	0.5
03.09.2019	0.52	0.45	0.75	0.85	3.2	0.1	0
10.09.2019	0.45	0.25	0.85	0.85	4.4	0.25	0
17.09.2019	0.45	0.20	0.45	0.55	4.9	0.45	0.5
24.09.2019	0.35	0.20	0.45	0.50	3.4	0.65	0.15
01.10.2019	0.20	0.10	0.30	0.24	2.3	0.30	0.15

Observation: Weekly observation on pest succession recorded on 20 selected tagged plants.

ET11. Assessment of yield loss due to fall armyworm in maize during *kharif* 2019

Location: Kolhapur Name of the cultivar: Rajashri

Date of planting:17.08.2019, Date of harvesting : 02.12.2019 ,Number of rows: 23, Row length:2.0m
Treatments: two
1.Unprotected
2. Protected: 3 sprays
1st spray: Chlorpyriphos 20EC @ 2ml/l on 11.09.2019
2nd spray: Chlorantrinilprole 18.5 SC @0.4ml/l on 26.09.2019
3rd spray: Emamectin benzoate 5 SG @ 0.4g/l of water on 10.10.2019

Table 47. Mean whorl feeding injury by FAW and ear yield

Whorl Feeding Injury (Davis score 1-9)	Grain Yield /ear(g)											Mean increase in ear yield over 9 rating(g)
	Plant Number											
	1	2	3	4	5	6	7	8	9	10	Mean	
1	131	125	128	131	123	128	138	125	126	130	128	77
2	85	115	100	88	105	90	110	112	95	98	100	49
3	92	92	92	100	92	90	88	87	90	95	92	41
4	87	89	88	84	88	93	95	85	90	80	88	37
5	83	74	79	72	75	80	75	78	85	87	79	28
6	73	69	71	65	68	70	72	80	65	80	71	20
7	59	62	61	60	70	55	65	66	60	55	61	10
8	60	56	54	58	52	45	58	55	48	52	54	3
9	50	52	50	53	52	52	51	55	48	50	51	-

Treatment	Grain Yield (q/ha)	Yield loss (q/ha)	% yield loss
1.Protected (Three spays)	118.6	38.06	47.26
2. Untreated	80.54		

ET 12. Evaluation of different ITK's for management Fall army worm during *Kharif* 2019

Table 48. Efficacy of ITK's in the management of FAW at Coimbatore

Cultivar : CMH (M) 08, Location: Coimbatore, Cultivar Row Length: 2.0m, No. of Rows: 2,

Date of sowing: 23.08.2019,Date of 1st spray: 20.09.2019, Date of 2nd spray: not done due to rains

S. No.	Treatment	Mean Per cent Plant infestation				Mean Davis Score (1-9 Scale)				Ear damage rating(Davis 1-9 scale)	Phytotoxicityc it
		Pre-treatment	7 days after spray	10 days after spray	Overall Mean	Pretreatment	7 days after spray	10 days after spray	Overall Mean		
1	Dry Sand alone	67.50 (55.26)	60.00 (50.80)	65.00 (53.78)	62.50	4.51	4.18	4.28	4.23	2.1	0.0
2	Dry Sand + lime 9:1	65.00 (53.78)	60.00 (50.77)	67.50 (55.38)	63.75	4.35	3.85	3.85	3.85	2.0	0.0
3	Dry Sand + lime 8:2	62.50 (52.50)	62.50 (52.33)	72.50 (58.40)	67.50	3.50	2.95	2.95	2.95	1.7	0.0
4	Dry Sand + Ash 8:2	67.50 (55.38)	65.00 (53.73)	67.50 (55.38)	66.25	4.08	3.99	3.99	3.99	1.7	0.0
5	Lime 5 g + Caustic Soda 5 g in 1 liter of water	75.00 (60.00)	70.00 (56.79)	77.50 (61.72)	73.75	3.75	3.85	3.85	3.85	1.9	1.2
6	Lime 7.5 g + Caustic Soda 7.5 g in 1 liter of water	70.00 (57.10)	65.00 (53.73)	70.00 (56.86)	67.50	3.91	3.45	3.45	3.45	2.2	0.7
7	Lime 10 g+ Caustic Soda 10 g in 1 liter of water	60.00 (50.77)	60.00 (50.80)	67.50 (55.38)	63.75	4.71	4.10	4.10	4.10	2.3	1.4
8	Washing powder* 5 g+Jaggery 5 g+ Lime 5 g in 1 liter of water	50.00 (45.00)	60.00 (50.77)	67.50 (55.38)	63.75	3.87	2.97	2.97	2.97	2.0	1.1
9	Washing powder* 4 g+Jaggery 4 g+ Lime 4 g in 1 liter of water	65.00 (53.78)	60.00 (50.80)	62.50 (52.50)	61.25	3.83	3.10	3.10	3.10	3.0	1.1
10	Washing powder* 8 g+Jaggery 8 g+ Lime 8 g in 1 liter of water	60.00 (50.77)	55.00 (47.87)	77.50 (61.72)	66.25	4.60	3.75	3.75	3.75	1.9	3.8
11	Washing powder** 8 g+Jaggery 8 g+ Lime 8 g in 1 liter of water	65.00 (53.78)	62.50 (47.88)	72.50 (58.40)	67.50	3.86	3.30	3.30	3.30	1.6	3.2
12	Washing Powder** 5 g in 1 liter of water	70.00 (56.86)	70.00 (56.79)	77.50 (61.72)	73.75	3.31	3.00	3.00	3.00	1.8	3.5

13	Neem formulation 1500 ppm@ 5 ml /1 lit. of water	65.00 (53.78)	55.00 (47.88)	65.00 (53.78)	60.00	4.63	4.04	4.04	4.04	3.4	0.0
14	NSKL 5% @ 5 ml/ lit. of water	70.00 (56.86)	65.00 (53.78)	67.50 (55.26)	66.25	3.20	2.90	2.90	2.90	1.9	0.0
15	Chlorantraniliprole @ 0.4 ml/lit.of water	62.50 (52.25)	15.00 (22.50)	2.50 (6.80)	8.75	3.80	2.10	2.10	2.10	1.4	0.0
16	Spinetoram @ 0.5 ml/lit.of water	67.50 (55.26)	22.50 (28.28)	0.00 (0.68)	11.25	4.17	2.65	2.65	2.65	2.1	0.0
17	Water spray	65.00 (53.78)	70.00 (56.79)	70.00 (56.86)	70.00	4.11	3.77	3.77	3.77	2.9	0.0
18	Untreated control	62.50 (52.50)	65.00 (53.78)	72.50 (58.40)	68.75	3.77	4.15	4.15	4.15	2.2	0.0
	CD 5%	NS	6.76	11.10		NS	NS	NS		NS	11.25
	CV	8.91	6.43	10.24		7.24	10.19	10.14		-	-

Note: * Washing powder – Nirma, ** Washing powder– Surf

Table 49. Efficacy of different ITK' in the management of FAW during *Kharif* 2019 at Kolhapur

Variety: Rajarshi, Row Length: 2.0m, No. of Rows: 2, Date of Sowing: 18.08.2019. Date of spray 11.09.2019

S. No.	Treatment	Mean Per cent Plant infestation				Mean Davis score(1-9 scale)				Grain Yield (q/ha)
		3 days after spray	7 days after spray	10 days after spray	Overall	3days after spray	7 days after spray	10 days after spray	Overall	
1	Dry Sand alone	76.77 (61.41)	81.77 (64.89)	82.27 (65.23)	80.27	3.48	4.00	4.93	4.13	27.72
2	Dry Sand + lime 9:1	81.16 (64.28)	82.16 (65.04)	83.16 (65.78)	82.16	3.60	4.13	4.93	4.22	38.15
3	Dry Sand + lime 8:2	72.50 (58.40)	76.00 (60.67)	76.60 (61.07)	75.03	3.35	3.75	4.95	4.02	40.47
4	Dry Sand + Ash 8:2	87.34 (69.22)	88.84 (70.53)	88.84 (70.53)	88.34	3.43	4.15	5.33	4.30	37.43
5	Lime 5 g + Caustic Soda 5 g in 1 liter of water	83.26 (65.85)	84.76 (67.02)	85.76 (67.85)	84.59	3.13	4.20	5.28	4.20	42.23
6	Lime 7.5 g + Caustic Soda 7.5 g in 1 liter of water	84.34 (66.85)	86.84 (68.76)	87.34 (69.17)	86.17	3.65	4.48	5.00	4.38	34.07
7	Lime 10 g+ Caustic Soda 10 g in 1 liter of water	80.33 (63.70)	82.83 (65.57)	83.83 (66.31)	82.33	4.10	4.83	5.10	4.68	47.22
8	Washing powder* 5 g+Jaggery 5 g+ Lime 5 g in 1 liter of water	87.45 (70.06)	89.45 (71.83)	89.95 (72.22)	88.95	3.38	4.35	5.08	4.27	45.45
9	Washing powder* 4 g+Jaggery 4 g+ Lime 4 g in 1 liter of water	90.38 (72.57)	91.88 (74.54)	91.88 (74.54)	91.38	3.85	4.40	4.98	4.41	43.59
10	Washing powder* 8 g+Jaggery 8 g+ Lime 8 g in 1 liter of water	82.99 (66.03)	84.49 (67.20)	84.99 (67.55)	84.15	3.45	4.23	4.80	4.16	36.28
11	Washing Powder** 5 g in 1 liter of water	77.21 (61.60)	78.21 (62.30)	79.21 (62.96)	78.21	3.33	4.35	4.50	4.06	46.71
12	Neem formulation 1500 ppm@ 5 ml /1 lit. of water	83.79 (66.52)	84.79 (67.34)	85.29 (67.70)	84.63	3.45	4.48	5.10	4.34	51.90

13	NSKL 5% @ 5 ml/ lit. of water	71.95 (58.05)	73.95 (59.35)	74.45 (59.67)	73.45	3.23	4.28	5.25	4.25	50.93
14	Chlorantraniliprole @ 0.4 ml/lit.of water	8.77 (17.16)	9.77 (18.16)	10.22 (18.55)	9.59	2.08	1.85	2.53	2.15	97.35
15	Spinetoram @ 0.5 ml/lit.of water	7.23 (15.59)	8.28 (16.72)	8.73 (17.16)	8.08	1.93	1.73	2.08	1.91	104.76
16	Water spray	94.38 (76.41)	95.93 (78.36)	96.93 (79.91)	95.75	3.65	4.73	4.98	4.45	32.33
17	Untreated control	100.00 (89.31)	100.00 (89.31)	100.00 (89.31)	100.00	3.38	4.50	4.93	4.27	27.95
	CD (5%)	**7.27**	**6.96**	**6.95**		**0.23**	**0.14**	**0.12**		**14.02**
	CV	**5.59**	**5.23**	**5.19**		**6.08**	**3.39**	**2.70**		**13.97**

Note: * Washing powder – Nirma, ** Washing powder– Surf

Biochemistry

BIOCHEMISTRY

The biochemistry laboratory facilitates the analysis of samples received under AICRP quality trial. The laboratory is well equipped with modern equipment's including Ultra Performance liquid Chromatography, Automatic Nitrogen Analyzer, Automatic Solvent Extraction System, NIRT, Double Beam Spectrophotometers, Vacuum Concentrator and Lyfolyzer etc. The laboratory also helps the AICRP centres in identifying superior germplasm for protein quality, oil content, carotenoids composition and starch profile. During the period of 2018–2019 samples received under AICRP quality programme were analyzed for protein quality and provitamin A components as required. For protein quality analysis a total of 14 genotypes consisting of seven newly developed QPM hybrids and seven checks were grown at two locations, *viz*,: Ludhiana and Delhi. The selfed maize ears collected from respective entries from each center was analyzed separately at the above mentioned two locations for protein quality parameters viz: protein, tryptophan and lysine. 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 i.e. tryptophan and lysine content in the endosperm protein. The data for protein, tryptophan and lysine are 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, respectively. The entries namely APQH 1, APH 1, APH 2, VEQH 16-1, IIMRQPMH 1705, IIMRQPMH 1708 and APQH-8 possessed the threshold concentration of protein quality to be considered as QPM.

Table 1: Protein content (%) of samples of coordinated QPM breeding programme

S. No	Name of entry	Samples grown at						Overall mean
		Ludhiana			Delhi			
		L	D	Mean	L	D	Mean	
1	APQH 1 (QPM+PROA)	7.6	8.8	**8.2**	8.2	9.2	**8.7**	**8.45**
2	APH 1 (PROA)	9.6	9.6	**9.6**	8.3	9.9	**9.1**	**9.35**
3	APH 2 (PROA)	10.0	9.2	**9.6**	8.3	9.0	**8.7**	**9.15**
4	PUSA HM8 IMPROVED (CHECK)	7.4	9.3	**8.4**	7.7	9.6	**8.7**	**8.55**
5	VEHQ 16-1	9.3	9.8	**9.6**	8.2	10.0	**9.1**	**9.35**
6	IIMRQPMH 1705	7.3	9.0	**8.2**	6.9	9.0	**8.0**	**8.10**
7	IIMRQPMH 1708	6.8	9.5	**8.2**	7.7	9.6	**8.7**	**8.45**
8	APQH 8 (QPM+PROA)	8.2	9.5	**8.9**	8.0	9.4	**8.7**	**8.80**
9	APQH 9 (CHECK)	7.8	9.5	**8.7**	8.4	9.3	**8.9**	**8.80**
10	Vivek QPM 9 (Check)	8.7	9.1	**8.9**	8.2	9.3	**8.8**	**8.85**
11	Pratap QPM Hybrid (Check)	8.2	9.6	**8.9**	8.1	9.2	**8.7**	**8.80**
12	HQPM-1 (Check)	7.9	9.4	**8.7**	7.7	9.5	**8.6**	**8.65**
13	HQPM-5 (Check)	8.3	9.1	**8.7**	8.1	9.5	**8.8**	**8.75**
14	HQPM-7 (Check)	7.6	9.4	**8.5**	8.9	9.5	**9.2**	**8.85**
	CV (%)	10.16	5.95	**8.8**	8.73	4.0	**8.7**	**8.78**
	CD (5%)	1.43	0.95		1.12	0.63		

L – Samples analyzed at Ludhiana center
D - Samples analyzed at Delhi center

Table 2: Tryptophan content (% of endosperm protein) of samples of coordinated QPM breeding programme

S. No	Name of entry	Samples grown at						Overall mean
		Ludhiana			Delhi			
		L	D	Mean	L	D	Mean	
1	APQH 1 (QPM+PROA)	0.96	0.89	**0.93**	0.88	0.89	**0.89**	**0.91**
2	APH 1 (PROA)	0.62	0.83	**0.73**	0.71	0.74	**0.73**	**0.73**
3	APH 2 (PROA)	0.64	0.85	**0.75**	0.75	0.85	**0.8**	**0.78**
4	PUSA HM8 IMPROVED (CHECK)	0.89	0.86	**0.88**	0.73	0.82	**0.78**	**0.83**
5	VEHQ 16-1	0.67	0.65	**0.66**	0.78	0.63	**0.71**	**0.69**
6	IIMRQPMH 1705	0.67	0.74	**0.71**	0.88	0.76	**0.82**	**0.77**
7	IIMRQPMH 1708	0.66	0.76	**0.71**	0.91	0.83	**0.87**	**0.79**
8	APQH 8 (QPM+PROA)	0.71	0.85	**0.78**	0.94	0.78	**0.86**	**0.82**
9	APQH 9 (CHECK)	0.75	0.80	**0.78**	0.84	0.79	**0.82**	**0.8**
10	Vivek QPM 9 (Check)	0.93	0.70	**0.82**	0.83	0.78	**0.81**	**0.82**
11	Pratap QPM Hybrid (Check)	0.70	0.80	**0.75**	0.75	0.79	**0.77**	**0.76**
12	HQPM-1 (Check)	0.82	0.82	**0.82**	1.00	0.82	**0.91**	**0.87**
13	HQPM-5 (Check)	0.74	0.75	**0.75**	0.90	0.75	**0.83**	**0.79**
14	HQPM-7 (Check)	0.86	0.86	**0.86**	0.80	0.82	**0.81**	**0.84**
	CV (%)	12.02	9.08	**0.78**	15.25	10.09	**0.82**	**0.80**
	CD (5%)	0.15	0.12		0.22	0.13		

L – Samples analyzed at Ludhiana center
D - Samples analyzed at Delhi center

Table 3: Lysine content (% of endosperm protein) of samples of coordinated QPM breeding programme

S. No	Name of entry	Samples grown at						Overall mean
		Ludhiana			Delhi			
		L	D	Mean	L	D	Mean	
1	APQH 1 (QPM+PROA)	3.10	3.92	**3.51**	3.87	3.83	**3.85**	**3.68**
2	APH 1 (PROA)	2.93	3.60	**3.27**	2.86	3.26	**3.06**	**3.17**
3	APH 2 (PROA)	3.00	3.85	**3.43**	2.76	3.73	**3.25**	**3.34**
4	PUSA HM8 IMPROVED (CHECK)	2.91	3.70	**3.31**	2.74	3.54	**3.14**	**3.23**
5	VEHQ 16-1	2.61	2.81	**2.71**	2.59	2.80	**2.70**	**2.71**
6	IIMRQPMH 1705	3.30	3.31	**3.31**	4.09	3.19	**3.64**	**3.48**
7	IIMRQPMH 1708	3.61	3.23	**3.42**	4.18	3.79	**3.99**	**3.71**
8	APQH 8 (QPM+PROA)	3.64	3.78	**3.71**	3.92	3.48	**3.7**	**3.71**
9	APQH 9 (CHECK)	3.78	3.09	**3.44**	3.82	3.66	**3.74**	**3.59**
10	Vivek QPM 9 (Check)	4.30	2.89	**3.60**	3.61	3.10	**3.36**	**3.48**
11	Pratap QPM Hybrid (Check)	2.75	3.36	**3.06**	2.97	3.27	**3.12**	**3.09**
12	HQPM-1 (Check)	3.50	3.51	**3.51**	4.19	3.68	**3.94**	**3.73**
13	HQPM-5 (Check)	4.07	3.42	**3.75**	3.96	3.23	**3.60**	**3.68**
14	HQPM-7 (Check)	3.76	3.62	**3.69**	3.91	3.52	**3.72**	**3.71**
	CV (%)	14.27	9.71	**3.41**	5.96	10.72	**3.48**	**3.45**
	CD (5%)	0.83	0.57		0.35	0.62		

L – Samples analyzed at Ludhiana center
D - Samples analyzed at Delhi center

Maize Nutrition

Results of the Experiments Conducted by Asst Nutritionist, AICRP (Maize), ZARS, V.C. Farm, Mandya, for the Year 2019-20

Experiment 1: Study of TSS content in baby corn genotypes

Objective: To assess the total soluble solid (TSS) content in baby corn genotypes

Table 1. Total soluble solid (TSS) content of baby corn genotypes.

Sl No	IIMR Code	TSS^0 brix
1	LMH 3517	8.0
2	DBCH 326	8.1
3	ABHS4-1	8.0
4	ABHS4-2	8.0
5	AH 7043	8.3
6	AH 5021	8.8
7	AH 7204	8.3
8	AH 7188	8.9
9	AHB 7985	8.3
10	BAU BCH 18-1	8.0
11	IMHSB-19KB-1	7.0
12	IMHSB-19KB-2	7.7
13	PAC 321	7.6
14	CMVL Baby corn 2 (Check)	7.7
15	HM 4 (Check)	8.3

Characteristics	**F-Value**			
	Between replication	**Between treatments**	**Sem±**	**CD@5%**
TSS^0 brix	NS	4.52	0.22	0.66

Inference: Among the babycorn genotypes tested, AH7188 (8.9^0 brix), AH5021 (8.8^0 brix) and AH7043 (8.3^0 brix) recorded more TSS content compared to other genotypes tested.

Experiment 2: Assessment of TSS content in sweet corn genotypes

Objective: To assess the total soluble solid (TSS) content in sweet corn genotypes

Table 2. Total Soluble Solid (TSS) content of sweet corn genotypes.

Sl No	IIMR Code	Mean tss^0 brix		
1	ISCH 0913	16.7		
2	BSCH 417006	14.7		
3	BSCH 417139	14.7		
4	NUZI 260	15.7		
5	NUZI 205	15.3		
6	ADVSW-1 (Check)	14.3		
7	ADVSW-2 (Check)	15.3		
8	Misthi (Check)	16.7		
9	CMVL SC 1(Check)	14.7		
10	CPSC 301	15.7		
11	Sweet purple	17.0		
12	Top sweet	15.0		
13	Super sweet	13.5		
14	CP Sweet 2	14.2		
15	ISCH 1901	15.7		
Characteristics	**F-Value**			
	Between replication	**Between treatments**	**Sem±**	**CD@5%**
TSS^0 brix	NS	3.08	0.568	1.64

Inference: Among the 15 sweet corn genotypes tested, Sweet purple (17.0^0 brix) Misthi (16.7^0 brix) and ISCH 0913 (16.7^0 brix) were recorded more TSS content compared to other genotypes tested.

Experiment 3: Development of maize based Ready-to-cook (RTC) roti mix

Objective: To standardize the ready-to-cook (RTC) maize roti mix using maize and other ingredients.

Table 3. The different variations of maize roti mix are as follows.

Ingredients	A	B	C	D
	50:50	**60:40**	**70:30**	**80:20**
Maize	50	60	70	80
Barley flour , soya flour, dehydrated green chilli powder and cumin seed powder	50	40	30	20

Table 4. Sensory evaluation of developed roti mixes.

Characteristics	A	B	C	D	F-Value	SEm±	CD@5%
Appearance	**8.4**	6.8	6.3	6.5	*	0.16	0.44
Colour	**8.1**	6.4	6.8	6.3	*	0.16	0.46
Texture	**8.1**	6.6	6.5	6.7	*	0.17	0.49
Flavour	**8.4**	7.1	6.7	7.0	*	0.17	0.47
Taste	**8.3**	6.6	6.5	6.6	*	0.13	0.37
Overall acceptability	**8.5**	6.4	6.8	6.2	*	0.15	0.43

Inference: The ready to cook roti mix was standardized using maize flour, barley flour, soya flour, dehydrated green chilli powder and cumin seed powder. The ratio comprising of **50:50** was acceptable by the sensory evaluation panelists.

Table 5. Sensory evaluations of developed roti mix in comparison with control (Wheat flour)

Characteristics	Maize roti	Wheat roti	F-Value	SEm±	CD@5%
Appearance	**8.5**	8.2	*	0.12	NS
Colour	**8.2**	7.8	*	0.11	NS
Texture	**8.1**	7.8	*	0.09	NS
Flavour	**8.3**	8.1	*	0.10	NS
Taste	**8.3**	8.1	*	0.09	NS
Overall acceptability	**8.5**	8.1	*	0.14	NS

Inference: There was no difference between maize roti and wheat roti in sensory quality both are equally acceptable in terms of organoleptic characters.

Experiment 4. Development of ready-to-cook (RTC) maize suji savory pongal mix

Objective: To study the suitability of maize semolina (suji) for the preparation of RTC savory pongal mix

Table 6. The different variations of **maize savory pongal mix** is as follows

Ingredients	A	B	C	D
	50:50	**60:40**	**70:30**	**80:20**
Maize suji	50	**60**	70	80
Green gram dhal	50	**40**	30	20
Spice mixture	10g	**10g**	10g	10g

Table 7. Sensory evaluation of developed maize savory pongal mix.

Characteristics	A	B	C	D	F-Value	SEm±	CD@5%
Appearance	6.9	**8.3**	6.3	6.6	*	0.16	0.45
Colour	6.6	**8.0**	6.5	6.5	*	0.17	0.48
Texture	6.7	**8.2**	6.6	6.1	*	0.16	0.46
Flavour	6.5	**8.2**	6.4	6.2	*	0.20	0.55
Taste	6.9	**8.3**	6.4	6.1	*	0.23	0.64
Overall acceptability	6.9	**8.5**	6.6	6.5	*	0.17	0.47

Inference: The ready to cook (RTC) pongal mix was standardized using maize suji and green gram dhal with addition of spice mix. The ratio of **60:40** was acceptable by the sensory evaluation panelists.

Table 8. Sensory evaluation of developed maize savory pongal mix and rice savory pongal mix

Characteristics	Maize savory pongal	Rice savory pongal	F-Value	SEm±	CD@5%
Appearance	8.3	8.6	*	0.10	NS
Colour	8.0	8.5	*	0.17	NS
Texture	8.1	8.5	*	0.11	NS
Flavour	8.1	8.3	*	0.07	NS
Taste	8.2	8.7	*	0.15	NS
Overall acceptability	8.3	8.7	*	0.13	NS

Inference: Even though the rice savoury pongal mix has higher values for sensory acceptability, there was no significant difference was observed with respect to maize and rice.

Experiment 5. Development of Ready-to-cook (RTC) maize sweet pongal

Objectives: To study the suitability of maize suji for the preparation of RTC sweet pongal mix.

Table 9. The different variations **of maize sweet pongal mix** is as follows

Food item	A	B	C	D
	50:50	**60:40**	**70:30**	**80:20**
Maize suji	50	60	70	80
Green gram dhal	50	40	30	20
Jaggery, Cardamom, Dehydrated ginger powder	60	60	60	60

Table 10. Sensory evaluation of developed maize sweet pongal mix

Characteristics	A	B	C	D	F-Value	SEm±	CD@5%
Appearance	6.8	8.4	6.3	6.7	*	0.16	0.44
Colour	6.4	8.1	6.8	64	*	0.16	0.46
Texture	6.6	8.1	6.5	6.2	*	0.17	0.49
Flavour	7.1	8.4	6.7	6.3	*	0.17	0.47
Taste	6.6	8.3	6.5	6.1	*	0.13	0.37
Overall acceptability	6.4	8.5	6.8	6.6	*	0.15	0.43

Inference: The ready to cook sweet Pongal mix was standardized using maize suji, green gram dhal in 60:40 ratio with 60 % addition of Jaggery. The ratio of 60:40 was acceptable by the sensory evaluation panelists.

Table 11. Sensory evaluations scores of developed maize sweet pongal mix and rice sweet pongal mix (control)

Characteristics	Maize sweet pongal	Rice sweet pongal	F-Value	SEm±	CD@5%
Appearance	8.2	8.6	*	0.13	NS
Colour	8.0	8.2	*	0.05	NS
Texture	8.1	8.4	*	0.09	NS
Flavour	8.3	8.6	*	0.12	NS
Taste	8.2	8.8	*	0.20	NS
Overall acceptability	8.4	8.8	*	0.12	NS

Inference: Even though the rice pongal mix had higher sensory scores, there was no difference in maize and rice mix with respect to statistical significance. Both are acceptable in sensory qualities.

Experiment 6. Development of RTC maize bisibele bath mix

Objective: To study the suitability of maize semolina for the preparation of RTC bisibele bath mix

Table 12. The different variations of maize bisibele bath mix.

Food item	A	B	C	D
	50:50	**60:40**	**70:30**	**80:20**
Maize suji	50	60	70	80
Broken red gram dhal	50	40	30	20
Spice mix	13	13	13	13

Table 13. Sensory evaluation of developed maize bisibele bath mix

Characteristics	A	B	C	D	F-Value	SEm±	CD@5%
Appearance	6.9	8.3	6.3	6.1	*	0.16	0.45
Colour	6.6	8.0	6.5	6.2	*	0.17	0.48
Texture	6.7	8.2	6.6	6.3	*	0.16	0.46
Flavour	6.5	8.2	6.4	6.1	*	0.2	0.55
Taste	6.9	8.3	6.4	6.4	*	0.23	0.64
Overall acceptability	6.9	8.5	6.6	6.3	*	0.17	0.47

Inference: The ready to cook bisibele bath mix was standardized using maize suji and red gram dhal with addition of spice mix. The ratio of 60:40 was acceptable by the sensory evaluation panelists.

Table 14. Sensory evaluation of developed maize bisibele bath and rice bisibele bath

Characteristics	Maize bisibele bath	Rice bisibele bath	F-Value	SEm±	CD@5%
Appearance	8.2	**8.5**	*	0.11	NS
Colour	8.0	**8.2**	*	0.09	NS
Texture	8.1	**8.5**	*	0.12	NS
Flavour	8.1	**8.5**	*	0.12	NS
Taste	8.2	**8.7**	*	0.18	NS
Overall acceptability	8.4	**8.8**	*	0.17	NS

Inference: Rice bisibele bath mix had higher sensory scores compared to maize suji bath mix. However, statistically there was no difference in sensory quality of both the mixes.

Experiment 7. Evaluation of nutritional composition of roti mix
Objective: To study evaluation of nutritional composition of roti mix
Table 15. Nutritional composition of developed maize **roti mix.**

Nutritional composition / 100 g	maize roti mix	Control (wheat flour 100 %)
Moisture	9.35±0.70[a]	6.70±00[b]
Protein	**19.78±0.49**[a]	7.26±0.12[b]
Fat	1.1±0.14[a]	2.75±1.06[a]
Ash	1.5±0.42[a]	1.45±0.07[a]
Crude Fiber	1.85±0.07[a]	1.95±0.07[a]
Calcium	**48.05±5.72**[a]	30.4±0.43[b]
Iron	**8.59±0.22**[a]	4.13±0.05[b]
Zinc	1.72±0.09[a]	2.82±0.02[b]
Magnesium	147.5±0.36[a]	124.86±0.80[b]
Phosphorus	316±1.01[a]	314.8±0.56 [a]

Inference: The developed mix was found to be superior in protein (19.78 g), iron (8.59 mg) and calcium (48.05 mg) contents.

Experiment 8. Evaluation of nutritional composition of savory pongal nix
Objective: To study evaluation of nutritional composition of savory pongal mix
Table 16. **Nutritional composition of maize savory pongal mix** compared to **rice (control).**

Nutritional composition/ 100 g	Maize (60:40)	Control (60:40)
Moisture	10.70±00[a]	10.45±0.07[b]
Protein	15.14±0.12[a]	14.62±0.36[a]
Fat	3.25±2.47[a]	2.1 ± 0.14[b]
Ash	2.55±0.07[a]	2.4±0.28[a]
Crude Fiber	2.85±1.12[a]	2.15±0.07[b]
Calcium	56.15±5.72[a]	46±2.82[a]
Iron	5.23±0.05[a]	3.56±0.06[b]
Zinc	5.22±0.04[a]	4.55±0.09[b]
Magnesium	169.2±0.26	93.49±0.23[b]
Phosphorus	349.48±1.30[a]	240.5±0.89[b]

Inference: The nutritional composition of the developed mix was found to be superior in protein (15.14 g), crude fiber (2.85g), iron (5.23 mg) and calcium (56.15 mg) contents compared to control

Table 17. Functional properties of maize savory pongal mix

Parameters	Maize savory pongal mix	Rice Savory pongal mix
WAC (ml/ g)	2.6	1.8
OAC (ml/ g)	1.2	1.0
BD (g/ml)	0.71	0.68
SWC (g/g)	14.10	11.4

Inference: The functional properties like water absorption capacity, oil absorption capacity and swelling capacity was high for maize mix compared to rice mix.

Experiment 9. Evaluation of nutritional composition of sweet pongal nix
Objective: To study evaluation of nutritional composition of sweet pongal mix
Table 18. **Nutritional composition of maize and rice (Control) sweet pongal mix**

Nutritional composition/ 100 g	maize (60:40)	Control (60:40)
Moisture	11.35±0.07[a]	11.20±0.14[a]
Protein	15.14±0.86[a]	11.96±0.65[a]
Fat	3.5±0.70[a]	2.1±0.14[a]
Ash	2±0.28[a]	1.5±0.07[a]
Crude Fiber	2.15±0.35[a]	1.8±0.42[a]
Calcium	62.05±36.84[a]	86.10±8.48[a]
Iron	5.65±0.17[a]	4.88±0.10[b]
Zinc	2.53±0.04[a]	2.37±0.27[a]
Magnesium	218.26±0.30[a]	149.8±0.58[b]
Phosphorus	377.81±0.37[a]	263.3±0.45[b]

Inference: The nutritional composition of the developed mix was found to contain protein (15.14 g), crude fiber (2.15), iron (5.65 mg) and calcium (62.05 mg) contents.

Table 19. Functional properties of maize sweet pongal mix

Parameters	Maize Sweet pongal	Rice sweet pongal mix
WAC (ml/ g)	1.2	0.6
OAC (ml/ g)	0.7	0.5
BD (g/ml)	0.83	0.71
SWC (g/g)	12.2	10.5

Inference: The functional properties like water absorption capacity, oil absorption capacity and swelling capacity was high for maize mix compared to rice mix.

Experiment 10. Evaluation of nutritional composition of sweet pongal nix
Objective: To study evaluation of nutritional composition of sweet pongal mix
Table 20. **Nutritional composition of maize and rice (Control) bisibele bath mix**

Nutritional composition/ 100 g	Maize bisibele bath mix	Control
Moisture	12.65±0.21[a]	9.35±0.21[b]
Protein	16.46±0.49[a]	13.91±2.84[a]
Fat	3.75±0.35[a]	3.25±0.35[a]
Ash	2.7±0.14[a]	2.2±0.28[a]
Crude Fiber	2.3±0.28[a]	2.2±0.14[a]
Calcium	72.05±16.90[a]	56.10±5.65[a]
Iron	3.03±0.02[a]	2.14±0.04[b]
Zinc	2.21±0.06[b]	2.44±0.11[a]
Magnesium	134.26±0.30[a]	106.1±0.2[b]
Phosphorus	297.95±0.91[a]	263.1±0.26[b]

Inference: The nutritional composition of the developed mix was found to contain protein (16.46 g) crude fiber (2.30 g), iron (3.03 mg) and calcium (72.05 mg) contents.

Table 21. Functional properties of bisibele bath mix

Parameters	Maize bisibele bath mix	Rice bisibele bath mix
WAC (ml/ g)	2.8	2.2
OAC (ml/ g)	1.7	0.9
BD (g/ml)	0.75	0.66
SWC (g/g)	13.4	11.5

Inference: The functional properties like water absorption capacity, oil absorption capacity and swelling capacity was high for maize mix compared to rice mix.

Experiment 11. Evaluation of storage quality of maize roti mix
Objective: To study evaluation of storage quality of maize roti mix
Table 22. Study of dough and roti making qualities of roti mix

Steamed maize flour	Before dry baking		After dry baking		
	Dough weight (g)	Diameter (cm)	Roti weight (g)	Diameter (cm)	Thickness (mm)
Roti 1	52	22.4	37	20.3	1.23
Roti 2	46	20.1	34	19	1.33
Roti 3	47	20.3	36	19	1.20
Roti 4	54	23.2	38	20.5	1.36
Mean	**49.75**	**21.50**	**36.25**	**19.70**	**1.28**

Inference : The 50:50 ratio of maize roti mix standardized for different time of steaming and found that 30 minutes steaming followed by addition of hot water (80^0 C) found to be suitable for getting good dough and roti making qualities with a mean diameter of 21.0 cm (before dry roasting) and 19.70 cm (after dry roasting).

Table 23. Insect infestation of roti mix (/ 100 g of mix) during storage.

Months of insect studies	*Red flour beetle*		*Rice weevil*	
	A	**B**	**A**	**B**
Initial	**0**	**0**	**0**	**0**
1st month	**0**	**0**	**0**	**0**
2nd month	**2**	**1**	**13**	**11**
3rd month	**Count less**		**Count less**	

Note; - A-LDPE, B-MPP

Inference: The developed roti mix was infested with rice flour beetle and rice weevil during third month of storage. Hence, further storage study with different treatments is required.

Experiment 12. Evaluation of storage quality of maize savory pongal mix
Objective: To study evaluation of storage quality of maize savory pongal mix
Table 24. Sensory scores of maize savory pongal mix during storage

Characteristics	Months of Storage											
	1st month		2nd month		3rd month		4th month		5th month		6th month	
	A	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**
Appearance	8.20	8.63	8.16	8.60	8.16	8.60	8.10	8.66	8.30	8.36	8.13	8.43
Colour	7.96	8.40	7.80	8.33	7.46	8.20	7.16	8.16	7.06	8.13	6.90	8.10
Texture	7.96	8.40	7.83	8.36	7.33	8.10	7.06	8.06	6.93	8.10	6.70	8.03
Flavour	8.53	8.60	8.36	8.56	8.20	8.46	8.03	8.66	7.93	8.70	7.26	8.60
Taste	8.16	8.26	8.06	8.13	7.96	7.80	7.70	8.63	6.33	8.66	4.90	8.63
Overall acceptability	8.46	8,43	8.26	8.36	8.06	8.46	7.70	8.16	7.43	8.16	7.23	8.33

Characteristics		F-Value	SEm±	CD@5%
Appearance	Between packaging	31.59*	0.047	0.137
	Between Months	0.341^{NS}	0.081	NS
	Packaging X Months	1.126^{NS}	0.115	NS
Colour	Between packaging	64.16*	0.073	0.215
	Between Months	4.57*	0.127	0.372
	Packaging X Months	1.48^{NS}	0.179	NS
Texture	Between packaging	55.26*	0.083	0.244
	Between Months	5.28*	0.114	0.422
	Packaging X Months	1.53^{NS}	0.203	NS
Flavour	Between packaging	162.7*	0.030	0.089
	Between Months	17.02*	0.052	0.153

	Packaging X Months	20.20*	0.074	0.217
Taste	Between packaging	121.4*	0.075	0.220
	Between Months	18.54*	0.130	0.381
	Packaging X Months	36.08*	0.183	0.538
OAA	Between packaging	25.05*	0.065	0.191
	Between Months	6.51*	0.113	0.331
	Packaging X Months	3.38*	0.160	0.469

Inference: The maize savory pongal mix prepared using maize semolina was kept for storage studies for a period of six months in two different packaging materials (LDPE and MPP). The pongal mix (savory) stored in MPP cover was acceptable up to six and four months respectively in MPP and LDPE pouches.

Table 25. Sensory scores of rice savory pongal mix during storage

Characteristics	Months of Storage											
	1st month		2nd month		3rd month		4th month		5th month		6th month	
	A	B	A	B	A	B	A	B	A	B	A	B
Appearance	6.86	7.03	6.80	7.13	6.86	7.10	6.80	7.13	6.73	7.10	6.53	7.13
Colour	6.86	7.13	6.93	7.03	6.73	7.06	6.60	7.00	6.30	6.90	5.70	6.86
Texture	7.00	7.10	6.83	7.00	6.76	6.90	6.73	6.83	6.66	6.73	6.63	6.66
Flavor	6.66	6.76	6.56	6.76	6.56	6.70	5.80	5.40	5.40	6.96	5.13	7.13
Taste	6.60	7.00	6.53	7.00	6.43	7.00	5.96	7.16	5.36	7.16	5.16	7.06
Overall acceptability	6.86	7.30	6.96	7.26	6.90	7.20	6.13	7.16	5.56	7.43	4.86	7.26

Characteristics		F-Value	SEm±	CD@5%
Appearance	Between packaging	29.06*	0.044	0.130
	Between Months	0.515^{NS}	0.077	NS
	Packaging X Months	0.926^{NS}	0.109	NS
Colour	Between packaging	81.26*	0.037	0.110
	Between Months	18.10*	0.065	0.191
	Packaging X Months	8.35*	0.092	0.270
Texture	Between packaging	1.530^{NS}	0.057	NS
	Between Months	2.182^{NS}	0.099	NS
	Packaging X Months	0.056^{NS}	0.140	NS
Flavor	Between packaging	62.87*	0.072	0.212
	Between Months	4.677*	0.125	0.368
	Packaging X Months	10.59*	0.177	0.520
Taste	Between packaging	220.12*	0.050	0.148
	Between Months	10.66*	0.087	0.256
	Packaging X Months	15.17*	0.123	0.362
OAA	Between packaging	67.98*	0.091	0.266
	Between Months	7.117*	0.157	0.460
	Packaging X Months	8.125*	0.222	0.651

Table 26. Bio chemical changes of maize savory pongal mix

Characteristics	Months of Storage													
	Initial		1st month		2nd month		3rd month		4th month		5th month		6th month	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Moisture (%)	8.03	8.00	8.20	8.10	8.30	8.16	8.56	8.23	9.03	8.60	9.16	8.73	9.30	8.86
Peroxide (m eq/kg fat)	2.73	2.33	3.70	2.76	6.73	4.23	7.10	4.80	8.40	5.33	8.86	6.06	9.50	6.46
Free fatty acid (% Oleic acid)	0.10	0.10	0.15	0.15	0.20	0.19	0.30	0.28	0.37	0.30	0.49	0.34	0.57	0.48
Alcoholic acidity	0.05	0.18	0.29	0.29	0.31	0.29	0.47	0.31	0.56	0.37	0.68	0.46	0.84	0.52

Characteristics		F-Value	SEm±	CD@5%
Moisture	Between packaging	39.24*	0.019	0.056
	Between Months	129.3*	0.036	0.105
	Packaging X Months	5.19*	0.051	0.149
Peroxide	Between packaging	568.0*	0.040	0.116
	Between Months	740.1*	0.074	0.216
	Packaging X Months	71.43	0.105	0.306
Free fatty acid	Between packaging	869.11*	0.001	0.003
	Between Months	5381.9*	0.002	0.005
	Packaging X Months	282.48*	0.002	0.007
Alcoholic acidity	Between packaging	1269.6*	0.003	0.008
	Between Months	1964.4*	0.005	0.014
	Packaging X Months	257.21*	0.007	0.020

Table 27. Bio chemical changes of rice savory pongal mix

Characteristics	Months of Storage													
	Initial		1st month		2nd month		3rd month		4th month		5th month		6th month	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Moisture (%)	8.53	8.56	8.60	8.60	8.80	8.70	9.00	8.73	9.16	9.00	9.56	9.30	9.83	9.40
Peroxide (m eq/kg fat)	2.10	2.00	2.10	2.03	2.73	2.33	3.70	2.76	6.73	4.23	7.10	4.80	8.40	5.33
Free fatty acid (% Oleic acid)	0.10	0.10	0.10	0.11	0.15	0.15	0.20	0.19	0.30	0.28	0.37	0.30	0.49	0.34
Alcoholic acidity	0.02	0.02	0.09	0.09	0.12	0.11	0.33	0.21	0.46	0.34	0.61	0.36	0.80	0.38

Characteristics		F-Value	SEm±	CD@5%
Moisture	Between packaging	406.08*	0.010	0.028
	Between Months	566.09*	0.018	0.052
	Packaging X Months	24.75*	0.025	0.073
Peroxide	Between packaging	982.6*	0.048	0.141
	Between Months	525.4*	0.091	0.264
	Packaging X Months	34.14*	0.128	0.373
Free fatty acid	Between packaging	7005.5*	0.000	0.001
	Between Months	37925.4*	0.001	0.002
	Packaging X Months	1260.7*	0.001	0.003
Alcoholic acidity	Between packaging	33.858*	0.014	0.040
	Between Months	54.472*	0.026	0.075
	Packaging X Months	9.301*	0.036	0.106

Table 28. Microbial studies of savory pongal mix.

Months of Microbial studies	Fungi (cfu/ml) 10^{-3}				Bacteria (cfu/ml) 10^{-4}				*E coli* (cfu/ml) 10^{-5}			
	Maize		Control		Maize		Control		Maize		Control	
	A	B	A	B	A	B	A	B	A	B	A	B
Initial	0	0	0	0	1.1	1.2	1.2	1.1	0	0	0	0
1st Month	0	0	0	0	1.2	1.3	1.2	1.3	0	0	0	0
2nd Month	0	0	0	0	2.2	1.9	2.4.	1.9	0	0	0	0
3rd Month	0	0	0	0	3.6	2.0	3.8	3.0	0	0	0	0
4th Month	0	0	0	0	4.3	2.6	3.9	3.0	0	0	0	0
5th Month	0	0	0	0	4.9	2.9	4.1	3.2	0	0	0	0
6th Month	0	0	0	0	5.0	3.4	4.5	3.4	0	0	0	0

Table 29. Consumer acceptability of maize savory pongal mix (N=90)

Consumer ratings	Agree		Disagree		Neutral	
	No	%	No	%	No	%
Product is good	60	60.6	05	5.5	25	27.7
Easy to prepared/cooked	80	88.8	02	2.2	08	8.8
Willing to buy	65	72.2	08	8.8	17	18.8
Can be promoted as an enterprise	62	68.8	06	6.6	22	24.4
Cost is appropriate	60	60.6	05	5.5	25	27.7

Experiment 13. Evaluation of storage quality of maize sweet pongal mix

Objective: To study evaluation of storage quality of maize sweet pongal mix

Table 30. Sensory scores of maize sweet pongal mix during storage

Characteristics	Months of Storage											
	1st month		2nd month		3rd month		4th month		5th month		6th month	
	A	B	A	B	A	B	A	B	A	B	A	B
Appearance	7.73	7.86	7.60	7.76	7.53	7.70	7.50	7.60	7.46	7.60	7.40	7.50
Colour	7.70	7.83	7.63	7.80	7.53	7.63	7.33	7.50	7.30	7.40	7.20	7.30
Texture	7.00	7.13	7.00	7.06	6.93	7.00	6.90	6.93	6.73	6.90	6.63	6.86
Flavor	7.73	7.80	7.76	7.76	7.73	7.73	6.50	7.70	6.46	7.66	5.80	7.60
Taste	8.20	8.26	8.13	8.26	8.06	8.23	7.60	8.16	7.23	8.16	6.73	8.00
Overall acceptability	8.26	8.46	8.13	8.33	7.90	8.20	7.70	8.26	7.53	8.10	7.40	8.16

Characteristics		F-Value	SEm±	CD@5%
Appearance	Between packaging	2.76^{NS}	0.040	NS
	Between Months	5.32*	0.070	0.20
	Packaging X Months	0.21^{NS}	0.099	NS
Colour	Between packaging	1.017^{NS}	0.059	NS
	Between Months	3.95*	0.101	0.29
	Packaging X Months	0.018^{NS}	0.143	NS
Texture	Between packaging	3.18^{NS}	0.040	NS
	Between Months	7.41*	0.069	0.202
	Packaging X Months	0.70^{NS}	0.097	NS
Flavor	Between packaging	19.47*	0.077	0.225
	Between Months	3.72*	0.133	0.389
	Packaging X Months	4.68*	0.188	0.551
Taste	Between packaging	78.23*	0.052	0.151
	Between Months	1.34^{NS}	0.089	NS
	Packaging X Months	12.77*	0.126	0.371
OAA	Between packaging	147.6*	0.043	0.125
	Between Months	2.21^{NS}	0.074	NS
	Packaging X Months	28.75*	0.105	0.307

Inference: The maize sweet pongal mix prepared using maize semolina was kept for storage studies for a period of six months in two different packaging materials. The sweet pongal mix stored in MPP covers was acceptable up to six months of storage period and four months in LDPE covers when evaluated by 21 semi trained judges of ZARS, V C Farm, Mandya.

Table 31. Sensory scores of rice sweet pongal mix during storage

Characteristics	Months of Storage											
	1st month		2nd month		3rd month		4th month		5th month		6th month	
	A	B	A	B	A	B	A	B	A	B	A	B
Appearance	8.16	8.00	8.00	7.96	7.93	7.80	7.83	7.83	7.80	7.70	7.70	7.56
Colour	8.06	8.10	7.93	8.00	7.86	7.96	7.73	7.83	7.60	7.70	7.50	7.60
Texture	7.10	7.13	6.90	7.23	6.96	7.03	6.73	6.80	6.63	6.66	6.76	6.83
Flavor	7.83	7.86	7.66	7.76	7.53	7.56	7.56	7.90	6.83	7.80	6.50	7.90

Taste	8.33	8.43	8.16	8.36	8.10	8.26	7.80	8.46	7.60	8.60	7.30	9.03
Overall acceptability	8.50	8.60	8.36	8.50	8.23	8.40	8.03	8.56	7.60	9.23	7.33	9.16

Characteristics		**F-Value**	**SEm±**	**CD@5%**
Appearance	Between packaging	10.30*	0.029	0.086
	Between Months	5.901*	0.051	0.150
	Packaging X Months	0.083^{NS}	0.072	NS
Colour	Between packaging	3.112^{NS}	0.051	NS
	Between Months	5.483*	0.089	0.260
	Packaging X Months	0.034^{NS}	0.125	NS
Texture	Between packaging	3.645^{NS}	0.043	NS
	Between Months	2.713*	0.075	0.220
	Packaging X Months	0.253^{NS}	0.106	NS
Flavor	Between packaging	174.2*	0.038	0.112
	Between Months	48.67*	0.066	0.194
	Packaging X Months	35.50*	0.093	0.274
Taste	Between packaging	45.30*	0.055	0.161
	Between Months	12.96*	0.095	0.279
	Packaging X Months	6.704*	0.134	0.395
OAA	Between packaging	95.02*	0.031	0.092
	Between Months	17.75*	0.054	0.160
	Packaging X Months	4.61*	0.077	0.226

Table 32. Biochemical changes of maize sweet pongal mix during storage

Characteristics	**Months of Storage**													
	Initial		**1st month**		**2nd month**		**3rd month**		**4th month**		**5th month**		**6th month**	
	A	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**
Moisture (%)	8.20	8.20	8.30	8.26	8.40	8.23	8.63	8.36	8.96	8.43	9.20	8.63	9.40	8.70
Peroxide (m eq/kg fat)	2.70	2.26	3.66	2.76	6.73	4.23	7.10	5.26	9.36	6.33	9.93	6.96	10.2	8.03
Free fatty acid (% Oleic acid)	0.12	0.12	0.18	0.17	0.48	0.28	0.59	0.52	0.68	0.56	0.74	0.60	0.86	0.69
Alcoholic acidity	0.05	0.05	0.13	0.07	0.34	0.27	0.47	0.35	0.74	0.41	0.83	0.45	0.96	0.50

Characteristics		F-Value	SEm±	CD@5%
Moisture	Between packaging	243.36*	0.015	0.043
	Between Months	144.87*	0.027	0.080
	Packaging X Months	25.498*	0.039	0.113
Peroxide	Between packaging	1317*	0.039	0.113
	Between Months	1262*	0.072	0.211
	Packaging X Months	47.70*	0.102	0.298
Free fatty acid	Between packaging	24234.2*	0000	0.001
	Between Months	83190.4*	0.001	0.003
	Packaging X Months	1976.0*	0.001	0.004
Alcoholic acidity	Between packaging	438.34*	0.020	0.007
	Between Months	427.19*	0.037	0.013
	Packaging X Months	49.57*	0.053	0.018

Table 33. Biochemical changes of rice sweet pongal mix during storage

Characteristics	Months of Storage													
	Initial		1st month		2nd month		3rd month		4th month		5th month		6th month	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Moisture (%)	8.73	8.70	8.80	8.70	9.06	9.10	9.30	9.16	9.63	9.23	10.0	9.33	10.4	9.60
Peroxide (m eq/kg fat)	2.06	1.96	2.03	2.00	2.70	2.26	3.66	2.76	6.73	4.23	7.10	5.26	9.36	6.33
Free fatty acid (% Oleic acid)	0.12	0.12	0.13	0.13	0.18	0.17	049	0.28	0.59	0.52	0.68	0.56	0.74	0.60
Alcoholic acidity	0.04	0.04	0.10	0.09	0.12	0.10	0.22	0.20	0.71	0.41	0.80	0.53	0.90	0.54

Characteristics		F-Value	SEm±	CD@5%
Moisture	Between packaging	320.5*	0.013	0.037
	Between Months	422.1*	0.024	0.069
	Packaging X Months	57.55*	0.033	0097
Peroxide	Between packaging	536.0*	0.039	0.112
	Between Months	1037.0*	0.072	0.210
	Packaging X Months	69.52*	0.102	0.297
Free fatty acid	Between packaging	4079.4*	0.001	0.003
	Between Months	2027.2*	0.002	0.005
	Packaging X Months	558.39*	0.002	0.007
Alcoholic acidity	Between packaging	2261.8*	0.002	0.006
	Between Months	5597.7*	0.004	0.011
	Packaging X Months	420.6*	0.006	0.016

Table 34. Microbial studies of sweet pongal mix

Months of Microbial studies	Fungi (cfu/ml) 10^{-3}				Bacteria (cfu/ml) 10^{-4}				E-coli (cfu/ml) 10^{-5}			
	Maize		Control		Maize		Control		Maize		Control	
	A	B	A	B	A	B	A	B	A	B	A	B
Initial	0	0	0	0	1.4	1.2	1.3	1.5	0	0	0	0
1st Month	0	0	0	0	2.0	1.9	1.6	1.9	0	0	0	0
2nd Month	0	0	0	0	2.4	2.0	2.6	2.0	0	0	0	0
3rd Month	0	0	0	0	3.2	2.6	2.9	2.4	0	0	0	0
4th Month	0	0	0	0	3.9	2.9	3.3	2.9	0	0	0	0
5th Month	0	0	0	0	4.0	3.2	3.8	3.0	0	0	0	0
6th Month	0	0	0	0	4.9	3.6	4.4	3.1	0	0	0	0

Table 35. Consumer acceptability of maize sweet pongal mix (N=90)

Consumer ratings	Agree		Disagree		Neutral	
	No	%	No	%	No	%
Product is good	70	77.7	03	3.3	17	18.8
Easy to prepared/cooked	85	94.4	-	-	05	5.5
Willing to buy	78	86.6	02	2.2	10	11.1
Can be promoted as an enterprise	81	90	-	-	09	10
Cost is appropriate	76	84.4	05	5.5	09	10

Inference: Maize sweet pongal mix was biochemically and microbiologically acceptable up to six months in MPP pouches and 77.7 % of the consumers liked the product as good.

Experiment 14. Evaluation of storage quality of maize bisibele bath mix

Objective: To study evaluation of storage quality of maize bisibele bath mix

Table 36. Sensory scores of maize suji bisibele bath mix during storage.

Characteristics	Months of Storage											
	1st month		2nd month		3rd month		4th month		5th month		6th month	
	A	B	A	B	A	B	A	B	A	B	A	B
Appearance	8.46	8.56	8.46	8.50	8.40	8.43	8.36	8.43	8.13	8.33	7.96	8.16
Colour	8.40	8.43	8.36	8.36	8.26	8.26	8.00	8.16	7.63	7.96	7.30	7.83
Texture	7.80	7.83	7.80	7.80	7.70	7.73	7.60	7.66	7.43	7.60	7.36	7.60
Flavor	8.06	8.06	7.93	8.10	7.86	8.03	7.60	8.20	7.46	8.13	7.46	8.20
Taste	8.33	8.36	8.30	8.36	8.20	8.26	8.03	8.36	7.80	8.33	7.73	8.30
Overall acceptability	8.33	8.40	8.23	8.36	8.06	8.30	7.93	8.36	7.73	8.33	7.66	8.33

Characteristics		F-Value	SEm±	CD@5%
Appearance	Between packaging	6.612*	0.029	0.086
	Between Months	11.502*	0.050	0.148
	Packaging X Months	0.574^{NS}	0.071	NS
Colour	Between packaging	6.095*	0.051	0.150
	Between Months	14.714*	0.088	0.259
	Packaging X Months	1.510^{NS}	0.125	NS
Texture	Between packaging	4.367*	0.030	0.089
	Between Months	7.312*	0.052	0.153
	Packaging X Months	0.752^{NS}	0.074	NS
Flavor	Between packaging	63.58*	0.034	0.101
	Between Months	3.004*	0.060	0.175
	Packaging X Months	6.88*	0.084	0.248
Taste	Between packaging	60.67*	0.024	0.711
	Between Months	10.55*	0.042	0.123
	Packaging X Months	8.52*	0.059	0.174
OAA	Between packaging	51.87*	0.035	0.103
	Between Months	5.67*	0.060	0.178
	Packaging X Months	4.23*	0.086	0.251

Table 37. Sensory scores of rice bisibele bath mix.

Characteristics	Months of Storage											
	1st month		2nd month		3rd month		4th month		5th month		6th month	
	A	B	A	B	A	B	A	B	A	B	A	B
Appearance	7.46	7.50	7.43	7.46	7.40	7.43	7.10	7.40	7.06	7.30	6.90	7.23
Colour	8.20	8.23	8.10	8.16	8.03	8.10	7.70	7.96	7.30	7.76	7.00	7.63
Texture	7.60	7.60	7.53	7.53	7.40	7.43	7.30	7.33	7.06	7.13	6.83	7.06
Flavor	7.76	7.80	7.73	7.40	7.50	7.60	6.76	7.53	6.46	7.20	6.06	7.00
Taste	7.43	7.46	7.36	7.36	7.16	7.33	7.20	7.46	6.56	7.43	6.60	7.46
Overall acceptability	7.60	7.66	7.46	7.66	7.20	7.60	6.80	7.43	6.46	7.50	6.40	7.53

Characteristics		F-Value	SEm±	CD@5%
Appearance	Between packaging	9.65*	0.037	0.108
	Between Months	6.94*	0.063	0.186
	Packaging X Months	1.28^{NS}	0.090	NS
Colour	Between packaging	14.38*	0.048	0.140
	Between Months	19.00*	0.082	0.242
	Packaging X Months	2.265^{NS}	0.117	NS
Texture	Between packaging	0.987^{NS}	0.044	NS
	Between Months	11.01*	0.076	0.223
	Packaging X Months	0.331^{NS}	0.108	NS
Flavor	Between packaging	74.78*	0.030	0.089
	Between Months	84.29*	0.053	0.155
	Packaging X Months	23.18*	0.075	0.219
Taste	Between packaging	55.14*	0.035	0.103
	Between Months	9.257*	0.060	0.178
	Packaging X Months	10.87*	0.086	0.251
	Between packaging	120.18*	0.037	0.109

OAA	Between Months	20.84*	0.065	0.190
	Packaging X Months	11.45*	0.091	0.268

Table 38. Biochemical changes of maize bisibele bath mix during storage

Characteristics	Months of Storage													
	Initial		1st month		2nd month		3rd month		4th month		5th month		6th month	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Moisture (%)	9.50	9.50	9.53	9.50	9.93	9.73	10.3	10.0	10.6	10.1	10.9	10.1	11.1	10.2
Peroxide (m eq/kg fat)	2.30	2.06	4.63	3.86	5.83	4.13	6.60	4.83	7.86	5.20	8.30	6.60	9.76	7.30
Free fatty acid (% Oleic acid)	0.13	0.13	0.14	0.14	0.17	0.15	0.21	0.19	0.24	0.20	0.35	0.30	0.53	0.44
Alcoholic acidity	0.05	0.05	0.22	0.20	0.39	0.36	0.48	0.40	0.67	0.48	0.85	0.52	0.95	0.61

Characteristics		F-Value	SEm±	CD@5%
Moisture	Between packaging	1092.4*	0.008	0.024
	Between Months	946.8*	0.015	0.045
	Packaging X Months	116.7*	0.022	0.064
Peroxide	Between packaging	2051*	0.025	0.073
	Between Months	2006*	0.047	0.137
	Packaging X Months	84.32*	0.067	0.194
Free fatty acid	Between packaging	594.9*	0.001	0.003
	Between Months	5117.4*	0.002	0.005
	Packaging X Months	88.74*	0.003	0.007
Alcoholic acidity	Between packaging	1412.5*	0.003	0.008
	Between Months	2628.7*	0.005	0.015
	Packaging X Months	212.7*	0.007	0.021

Table 39. Biochemical changes of rice bisibele bath mix during storage

Characteristics	Months of Storage													
	Initial		1st month		2nd month		3rd month		4th month		5th month		6th month	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Moisture (%)	8.80	8.73	8.90	8.80	9.06	8.93	9.13	9.03	9.40	9.16	9.76	9.16	9.83	9.30
Peroxide (m eq/kg fat)	5.83	4.13	6.60	4.83	7.86	5.20	8.30	6.60	9.76	7.30	10.2	7.80	10.8	8.20
Free fatty acid (% Oleic acid)	0.13	0.13	0.17	0.15	0.21	0.19	0.24	0.20	0.35	0.30	0.53	0.44	0.67	0.51
Alcoholic acidity	0.12	0.14	0.37	0.27	0.44	0.34	0.56	0.44	0.65	0.47	0.74	0.55	0.94	0.57

Characteristics		F-Value	SEm±	CD@5%
Moisture	Between packaging	312.28*	0.010	0.029
	Between Months	259.31*	0.019	0.055
	Packaging X Months	34.46*	0.027	0.078
Peroxide	Between packaging	2335*	0.032	0.094
	Between Months	821.7*	0.060	0.175
	Packaging X Months	14.06*	0.085	0.247
Free fatty acid	Between packaging	1710.1*	0.001	0.003
	Between Months	9569.1*	0.002	0.005
	Packaging X Months	252.6*	0.003	0.007
Alcoholic acidity	Between packaging	283.32*	0.006	0.018
	Between Months	322.34*	0.012	0.034
	Packaging X Months	25.46*	0.017	0.048

Table 40. Microbial studies of bisibele bath mix

Months of Microbial studies	Fungi (cfu/ml) 10^{-3}				Bacteria (cfu/ml) 10^{-4}				E-coli (cfu/ml) 10^{-5}			
	Maize		Control		Maize		Control		Maize		Control	
	A	B	A	B	A	B	A	B	A	B	A	B
Initial	0	0	0	0	1.1	1.0	1.3	1.2	0	0	0	0
1st Month	0	0	0	0	1.9	1.2	1.9	1.9	0	0	0	0
2nd Month	0	0	0	0	2.4	1.6	2.7	1.9	0	0	0	0
3rd Month	0	0	0	0	2.9	1.9	3.4	2.1	0	0	0	0
4th Month	0	0	0	0	3.2	2.4	4.3	2.2	0	0	0	0
5th Month	0	0	0	0	4.1	2.9	4.8	2.9	0	0	0	0
6th Month	0	0	0	0	5.3	3.2	5.7	3.1	0	0	0	0

Table 41. Consumer acceptability of maize bisibele bath mix (N=90)

Consumer ratings	Agree		Disagree		Neutral	
	No	%	No	%	No	%
Product is good	85	94.4	01	1.1	04	4.4
Easy to prepared/cooked	75	83.3	02	2.2	13	14.4
Willing to buy	68	75.5	02	2.2	20	22.2
Can be promoted as an enterprise	81	90	-	-	19	21.1
Cost is appropriate	76	84.4	05	5.5	19	21.1

Inference: Consumer acceptability of the developed mixes revealed that the consumers who have themselves tasted and prepared the products liked the product in terms of easy in preparation, cost and product quality maize bisibele bath mix (75.5-94.4%).

Table 42. Cost of RTC maize food mixes

Food items	Cost raw materials (total)	Over head charges (20% of the total cost)	Profit @15 %	Grand total	Selling cost (per 500g)/pack
Maize suji pongal mix (Savory)	46.14	9.22	8.30	63.66	**64**
Maize suji Bisibele bath mix	51.10	10.22	9.19	70.51	**71**
Maize suji pongal mix (Sweet)	41.05	8.21	7.38	56.64	**57**

Inference : The selling cost of the developed mixes when calculated by keeping 15 % profit was respectively 64Rs, 71Rs and 57 Rs/ 500 g mix of maize suji pongal mix (Savory), maize suji bisibele bath mix and maize suji pongal mix (Sweet) .

Annual Progress Report of ICAR-CIMMYT Collaborative Research Programme on Maize

ICAR-CIMMYT Collaborative Program on Maize

Partners:

ICAR-Indian Institute of Maize Research (IIMR), Ludhiana
All India Coordinated Maize Improvement Project (AICMIP) Centres
International Maize & Wheat Improvement Centre (CIMMYT)

Annual Progress Report

(2019-20)

Compiled by:

CIMMYT and ICAR-IIMR

Submitted to:

Indian Council of Agricultural Research (ICAR),
Krishi Bhawan, New Delhi-110001, India

C O N T E N T S

1. Background:

Maize area in India now averages over 10 million ha, with a production of about 25 million tons per annum (IIMR annual report, 2017). Out of this, maize is largely grown as rainfed crop, which is prone to the vagaries of monsoon rains and associated abiotic and biotic constraints. Moisture availability is seldom adequate for rainfed maize, as erratic/un-even distribution pattern of monsoon rains often cause intermittent drought or excessive moisture/waterlogging at different crop growth stage(s). Uncertainty of assured returns often discourage rainfed farmers to invest on improved seed and recommended inputs, which further contribute to poor yields of rainfed maize. Rainfed systems are largely dependent on prevailing weather conditions and therefore extremely vulnerable to climate changes.

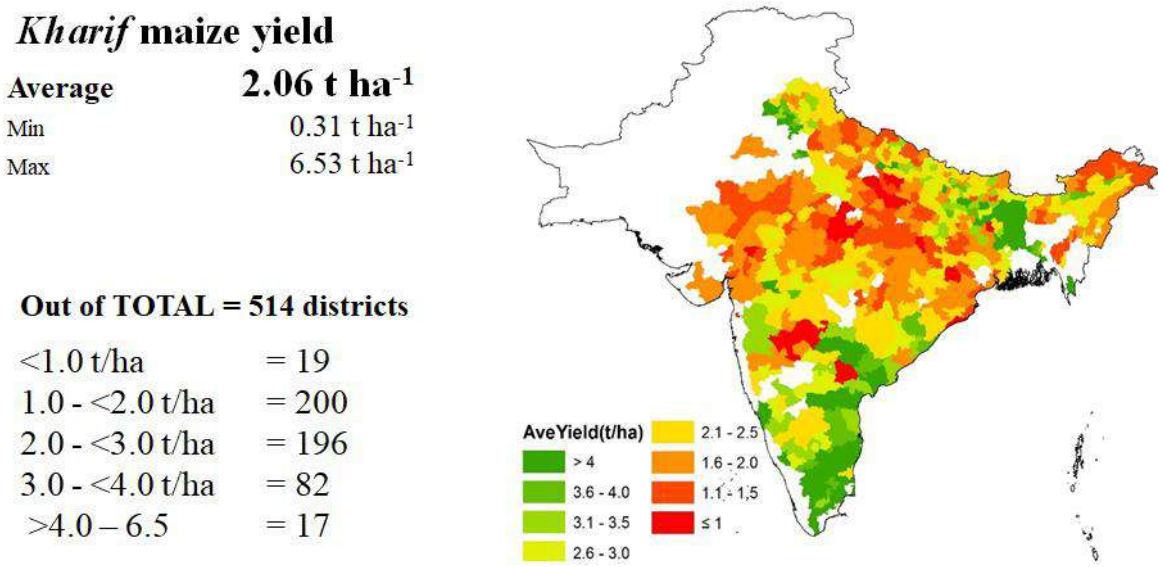

Fig. 1: District-wise average productivity of maize (average of 2014-15, 2015-16 & 2016-17). *(Data: Directorate of Economics & Statistics, Ministry of Agriculture & Farmer Welfare, Govt. of India)*

Several high yielding hybrids are officially released in India. However, the overall benefit of these high yielding cultivars seems to be more in irrigated maize (rabi and spring maize). The productivity of rainfed-kharif maize, which account for about 80% to the total maize grown in the country, remain low (~2.0 t/ha). This is largely because rainfed crop is prone to the vagaries of monsoon rains and associated abiotic and biotic constraints. Moisture availability is seldom adequate for rainfed maize, as erratic/un-even distribution pattern of monsoon rains often cause intermittent drought or excessive moisture/waterlogging at different crop growth stage(s). Rainfed systems are largely dependent on prevailing weather conditions and therefore extremely vulnerable to climate change effects. Such impacts are evident in form of shifting seasons and significant inter-annual variation in rainfall, temperature etc. with increased frequency of extreme weather causing severe drought, water-logging and heat stress, and also reduced number of rainy days per year.

In recent years the Indian tropics have experienced frequent and widespread drought years, coupled with increased day/night temperatures during the main maize growing season, apart from scattered drought/waterlogging/heat almost every year in one or the other part of the country. The compound effects of multiple stresses during monsoon season is reflected in terms of low productivity of *Kharif* maize, which is usually less than half compared to irrigated *Rabi* maize. Even within *Kharif* maize area

there is huge variation in district-wise average productivity, ranging from less half tons to as high as 6.5 tons ha^{-1}. Analysis of the district-wise average productivity indicated that out of 514, average productivity of almost 415 districts is less than national average productivity (Fig. 1).

Taking the above facts into consideration, the work-plan under ICAR-CIMMYT collaborative program is refined to focus largely on developing stress resilient technologies, including high-yielding stress resilient maize germplasm and agronomic practices for improving rainfed-kharif maize productivity in stress-vulnerable agro-ecologies.

The collaborative program was implemented in partnerships with ICAR-IIMR, AICRP centres and CIMMYT through under different projects as follows:

- ICAR grant -Improving *Kharif* maize productivity
- Bi-lateral projects:
  - *Climate-resilient Maize for Asia (CRMA), funded by BMZ/GIZ, Germany*
  - *Heat Tolerant Maize for Asia (HTMA), funded by USAID, USA*
  - *International Maize Improvement Consortium (IMIC)- India Chapter*
  - *Sustainable Intensification of maize-based systems*
- Work-packages under CRP-MAIZE

Apart from planned research activities a range of capacity development events were organized for project partners, including joint studentships and a number of joint publications were brought-out across different projects.

Research highlights & salient achievements under various ICAR-CIMMYT collaborative projects are described as follows:

2. ICAR-funded project: Improving rainfed-*Kharif* maize productivity:

This project started in June-2019 funded through ICAR annual grant to CG centres. The work-plan and activities to be executed was discussed and finalized in the meeting held on 28 June 2019 at ICAR-IIMR Unit Office, New Delhi, as follows:

Activity 1 : Establish managed stress phenotyping sites for drought, waterlogging & heat

Activity 2 : Implement precision phenotyping under managed stress environment

Activity 3 : Identification of source germplasm for abiotic stress tolerance and heterotic grouping through genomic and combining ability studies

Sub-Activity 3.1: Assessing available genetic diversity

Sub-Activity 3.2: Heterotic classification of ICAR-IIMR and AICMIP inbred lines and combining abilities

Activity 4: Identify commercially viable hybrids for rainfed system

The project was implemented in partnership of ICAR-IIMR, three AICRC centres (AAU-Godhra, BHU, Varanasi and MPKVV, Kolhapur) and CIMMYT. Salient achievements during the year under report are as follows:

2.1 Establish managed stress phenotyping sites for drought, waterlogging & heat

- Suitable locations for establishing precision phenotyping site for respective stresses, at least three sites were identified (Table-1).

Table-1: Locations identified for establishing precision phenotyping for key abiotic stresses.

S.No.	Locations	Environment	Season	Partner
1	Begusarai	Waterlogging	Kharif	ICAR-IIMR
2	Ludhiana	Heat	Spring	ICAR-IIMR
3	Kolhapur	Drought, Heat	Rabi, Spring	AICRP-MPKV
4	Godhra	Drought, Heat	Rabi, Spring	AICRP-AAU
5	Varanasi	Heat, Waterlogging	Spring, Kharif	AICRP-BHU
6	Hyderabad	Drought	Rabi	CIMMYT
7	Daulatabad	Waterlogging	Kharif	CIMMYT

- Suitable field site at each location was selected, keeping in view the basic requirements of soil-type, field variability, irrigation & drainage facilities etc.
- Key equipment including soil moisture profile probe (Fig. 2) and weather station installed and master data-sheet for capturing daily weather data during experiment was made available to each center for quantitative management of stress intensity with uniformity based on growing degree days (GDD), and depleting soil moisture recorded on volumetric basis.
- Data-logger with Field-log made available to three AICRP centers for digital data-capture in the phenotyping trials.
- Training of local staffs on various tools and system is organized.

Fig. 2: Soil moisture profile probe installed at drought phenotyping locations.

2.2 Implement precision phenotyping under managed stress environment

Trials were constituted including released/pipelines hybrids from IIMR/AICRP and CIMMYT and managed drought stress trials were planted during December 2019 in Kolhapur, Godhra and Hyderabad (Table-2, Fig. 3).

Table 2: Trials planted at Kolhapur, Godhra and Hyderabad for managed drought phenotyping.

Trial code	#Entries	#Reps	Rows/ Plot	#Plots	Rows/trial
Elite Early hybrids from AICRP_Maize	36	2	3	108	324
Elite Med hybrids from AICRP_Maize	55	2	2	110	220
Stage-V hybrids from DT/HT	28	2	4	112	448
Stage-V hybrids from DT/WL	32	2	4	128	512
Stage-III hybrids from DT/WL	35	2	3	105	315
Stage-IV hybrids from DT/WL	20	2	3	60	180
Stage-III hybrids from DT	60	2	2	120	240
TOTAL	266				

Fig. 3: Managed drought stress trials at Hyderabad, Godhra & Kolhapur during Rabi 2019-20.

The drought trials at all the three locations are being harvested by end ofApril-2020. The set of entries (Table-3) were planted in 2/3 week of March, 2020 at four locations (Godhra, Varanasi, Kolhapur and Ludhiana) for evaluation under natural heat stress at reproductive stage.

2.3 Identification of potential germplasm sources for abiotic stress tolerance and heterotic grouping through genomic and combining ability studies

Sub-Activity 3.1: Genetic diversity studies to complement field studies for heterotic grouping

A panel of 752 lines available with AICRP were planted at Winter Nursery Centre (WNC), Hyderabad (Table 3) and a panel of 658 CIMMYT germplasm selected for waterlogging, drought, heat or combination stress tolerance were planted at ICRISAT Hyderabad. DNA samples were collected from all the lines planted at WNC & ICRISAT, and the validation process of the DArTAG platform is in progress.

Table 3: List of lines being genotyped from AICRP partners (through IIMR)

AICRP Centers	# lines
IIMR (Ludhiana)	100
IIMR (Begusarai)	104
IIMR (Delhi)	218
IIMR (WNC)	132
Karnal	10
Bajaura	10
Dharwad	10
Pantnagar	19
Hyderabad	10
Coimbatore	8
Vagarai	2
Delhi	7
Almora	30
Mandya	19
Varanasi	16
Ludhiana	25
Barapani	10
Srinagar	10
Kolhapur	10
Total	752

Sub-Activity 3.2: Heterotic classification of ICAR-IIMR and AICMIP inbred lines through delineation of combining abilities

A crossing block at WNC, ICAR-IIMR, Rajendranagar, Hyderabad was planted on 31st August 2019 in order to develop a Design II with two testers each from CIMMYT and ICAR-IIMR. A sub-set of 193 lines from the IIMR/AICMIP panel reported in 3.2.1 were crossed to four testers. Crosses were harvested in January 2020. The Table-5 illustrates the number of successful crosses that were harvested.

Simultaneously, a crossing block for forming a Diallel amongst the above 4 testers was planted on 31st August at Winter Nursery Center, ICAR-IIMR, Rajendranagar, Hyderabad. This was harvested on 6th January 2020. This activity was done to determine relationship between CIMMYT and ICAR-IIMR testers. However, due to a lack of nicking between the testers, these crosses had poor seed set. Hence, this would need to be remade to ensure enough seed for evaluation. The crosses will be evaluated across location during Kharif-2020 under optimal conditions (with supplemental irrigation) to determine HG and combining ability.

2.4 Identify commercially viable CIMMYT and ICAR-IIMR hybrids

Selected stress-resilient high-yielding hybrids across locations will be evaluated in specifically designed rainfed trials under AICRP network to identify stress-resilient hybrids for *Kharif.* This includes selection among existing pipeline/released hybrids (Table-3) after going through series of testing (Table-1), as well as new hybrid combination generated under activity 3.

3. Bilateral Project-1 - Climate-resilient maize for Asia (CRMA):

The project "*Climate-resilient maize for Asia (CRMA)*" funded by BMZ/GIZ, Germany was launched in January, 2016 with a period of three years, and extended for six months till 30 June, 2019. The project was led by CIMMYT and implemented in collaboration with four national programs, two each from South and Southeast Asia, and six seed companies in partner countries, as listed below. University of Hohenheim (UoH) collaborated as resource partner.

Project partners:

- Indian Institute of Maize Research (IIMR), Ludhiana, India;
- Anand Agricultural University (AAU), Anand, India;
- Banaras Hindu University (BHU), Varanasi, India;
- Bangladesh Agriculture Research Institute (BARI), Gazipur;
- National Maize Research Institute (NMRI), Hanoi, Vietnam;
- *Nakhon Sawan Field Crops Research Center, Tak Fa, Thailand.*
- BRAC, Bangladesh
- Bioseed Asia Pvt. Ltd., India
- Bisco Biosciences, India & Thailand
- Ajeet Seeds, India
- Rasi Seeds Pvt. Ltd. India
- Indo-American Hybrid Seeds, India
- University of Hohenheim, Germany
- CIMMYT, India

Major research findings of the project are as follows:

3.1 Climate-resilient maize through integration of genomic selection (GS) and doubled haploid (DH) technologies:

Two multi-parent synthetic populations, one each in heterotic groups A and B (MYS-1 and MYS-2) were developed using elite drought and waterlogging tolerant donors. These populations were advanced through three cycles, C1 using phenotypic selection (PS) and other two cycles (C2 and C3) using rapid-cycle genomic selection (RC-GS). Simultaneously, C1 of both the population was also advanced through two more recombination following a simple recurrent selection scheme. Population bulks of improved cycles using GS and PS were submitted for DH induction and a set of 1100 DH lines were derived, test-crossed and evaluated under managed drought, waterlogging and optimal moisture conditions.

The best hybrids with combination of traits were identified based on across moisture regime results (Fig-4). There were quite a few hybrids having combined tolerance to drought and waterlogging stress and good yields under optimal condition as well. Comparison of performance across three environments indicated that high and consistent performance of entries across moisture regimes was closely related to performance under drought environment followed by excess moisture.

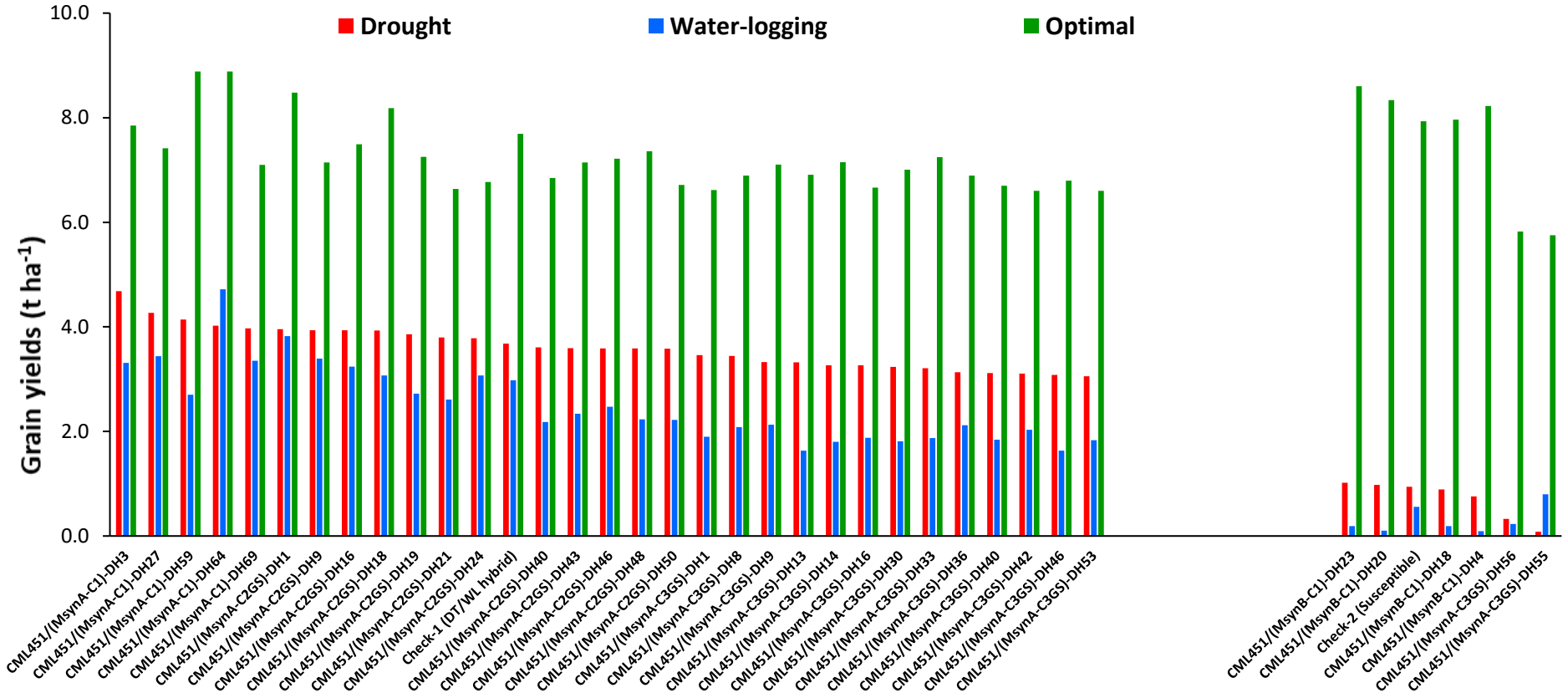

Fig-4: Stress-resilient progenies with combined DT and WL tolerance and good performance under optimal moisture.

3.2 Genetic gains with genomic selection in comparison with phenotypic selection:

An assessment of the performance of different selection cycles of genomic selection (GS) or phenotypic selection (PS) showed varied responses for grain yields under different moisture regimes (Fig. 5). Test crosses of selection cycles showed at par or higher gains with GS compared to PS under both drought and waterlogging stresses, with the exception of MYS-1 that showed relatively more gains under waterlogging stress with PS (Fig. 15). MYS-2 responded relatively better to GS for drought as well as waterlogging. The realized gains in grain yields with GS or PS under both the stresses was linear from C_1 to C_3.

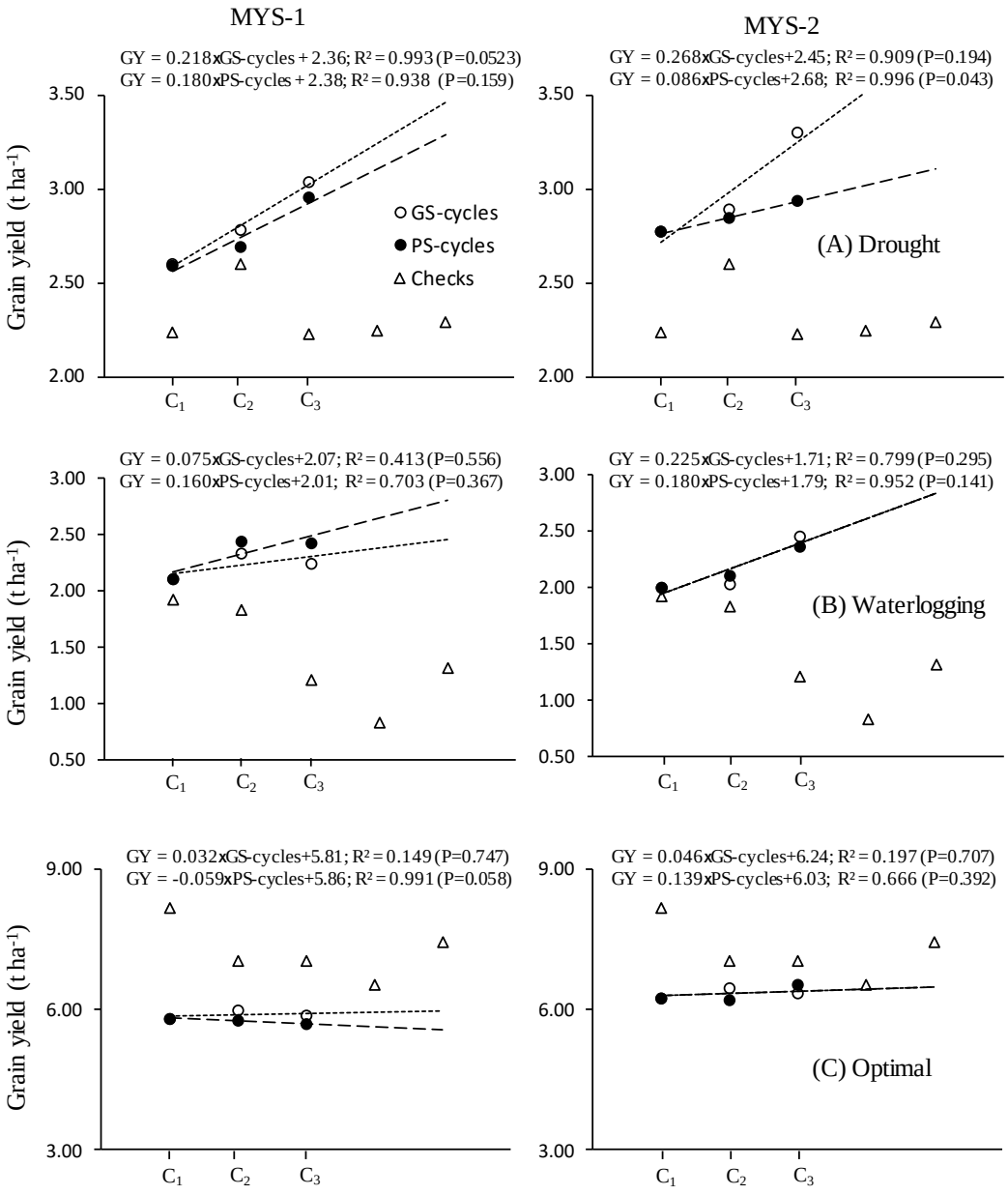

Fig. 5. Genetic gains on different improved cycles (C1 to C3) following genomic selection and simple recurrent selection under different management.

However, in contrast to selection cycle evaluation results, both the populations showed relatively more gain from C_2 to C_3 in comparison to C_1 to C_2, with the exception of MYS-1 under waterlogging that showed nominal loss from C_2 to C_3 (-3.4% and -0.8% with GS and PS, respectively). The two cycles of selection using GS or PS for drought and waterlogging tolerance did not significantly affected grain yields under optimal moisture conditions.

3.3 Stress resilient version of elite Asia-adapted maize lines developed through introgression of validated genomic regions:

A total 18 genomic regions were identified for water logging that was identified in more than one mapping study. Similarly, eight genomic regions for drought tolerance were found to be significant in more than one study. 76 KASPAR assays, which allow for high throughput genotyping in breeding populations, were developed for drought tolerance based on the genomic regions identified. 50 SNPs for water logging tolerance based on the genomic regions identified on the basis of various experiments, of which 33 KASPAR assays have been developed successfully. These were used in improving two elite testers, CML451 and CL02450 using two and one sequence-indexed donors for drought and water logging tolerance respectively in each heterotic groups through back crossing and BC-intercrosses. A total 802 DH lines were derived from BC-intercrosses families with different favorable alleles fixed for the stress tolerance traits in the back ground of CML451 and CL-02450 (Table 4). Seed advancement of these DH lines have been done and awaiting test crossing for further evaluation under water logging and drought stress conditions.

Table 4: DH lines in the background of CML451 and CL02450 from drought tolerant and water logging tolerant genomic regions

S.No.	Pedigree	#DH lines
1	(CML451-B*4)/(DTPYC9-F102-4-5-1-1-BBB-B1-B)//CML451-B/(CML451-B*4)/(CML433-BBB)//CML451-B-4	37
2	(CML451-B*4)/(CML433-BBB)//CML451-B/(CML451-B*4)/((DT/LN/EM-46-3-1xCML311-2-1-3)-B-F239-1-1-1-BB)//CML451-B-1	29
3	(DTPYC9-F46-3-9-1-2-2-1-3-B*5)/(CL02450-BB)//CL02450-B/(Saracura-11-3-2-2-1-B*7)/(CL02450-BB)//CL02450-B-2	99
4	(DTPYC9-F46-3-9-1-2-2-1-3-B*5)/(CL02450-BB)//CL02450-B/(Saracura-11-3-2-2-1-B*7)/(CL02450-BB)//CL02450-B-3	79
5	(DTPYC9-F46-3-9-1-2-2-1-3-B*5)/(CL02450-BB)//CL02450-B/(Saracura-11-3-2-2-1-B*7)/(CL02450-BB)//CL02450-B-6	55
6	(DTPYC9-F46-3-9-1-2-2-1-3-B*5)/(CL02450-BB)//CL02450-B/(CML165xCL-02839)-B-22-1-1-BB-1-BB/CL02450-BB//CL02450-B-1	157
7	(DTPYC9-F46-3-9-1-2-2-1-3-B*5)/(CL02450-BB)//CL02450-B/(CML165xCL-02839)-B-22-1-1-BB-1-BB/CL02450-BB//CL02450-B-5	80
8	(DTPYC9-F46-3-9-1-2-2-1-3-B*5)/(CL02450-BB)//CL02450-B/(CML165xCL-02839)-B-22-1-1-BB-1-BB/CL02450-BB//CL02450-B-7	43
9	(Saracura-11-3-2-2-1-B*7)/(CL02450-BB)//CL02450-B/(CML165xCL-02839)-B-22-1-1-BB-1-BB/CL02450-BB//CL02450-B-2	16
10	(Saracura-11-3-2-2-1-B*7)/(CL02450-BB)//CL02450-B/(CML165xCL-02839)-B-22-1-1-BB-1-BB/CL02450-BB//CL02450-B-4	166
11	(CML451-B*4)/(DTPYC9-F102-4-5-1-1-BBB-B1-B)//CML451-B/(CML451-B*4)/((DT/LN/EM-46-3-1xCML311-2-1-3)-B-F239-1-1-1-BB)//CML451-B-6	41

3.4 Stress-resilient hybrids licenced to project partners:

Based on the across location performance and also in specific target market hybrids were selected by partners and formal request for licencing was submitted to product allocation committee. During the project period a total 12 hybrids were licenced to various partners, including public and private sector partners from India (Table-5). Next set of 11 hybrids have been identified from 2018 trials and are advanced to CIMMYT Asia regional testing at multiple locations in 2019 for licensing in 2020.

Table 5. Hybrids licenced to partners on exclusive or non-exclusive basis.

Year/Hybrids	Partners
2017	
CAH1511	BRAC, Bangladesh
	BAU, Sabor
CAH153	BRAC, Bangladesh
	Lall Seeds, India
CAH1714	BRAC, Bangladesh
CAH1519	Srimad Seeds, india
2018	
CAH153	Kumar Bioseeds And Agro Products LLP
CAH1711	Kumar Bioseeds And Agro Products LLP
CAH1511	AAU, Anand, India
CAH1519	AAU, Anand, India
CAH1525	AAU, Anand, India

3.5 Selected stress-resilient lines shared with partners for joint hybrids:

Apart from indenting best performing CIMMYT bred hybrids, partners requested one of the parents (female lines, Table-6) of these hybrids to develop joint hybrids by crossing their best-bet lines with stress-resilient parent from CIMMYT.

Table 6: Selected stress-resilient lines from CRMA shared with partners

AAU	ICAR-IIMR		BHU	IARI	Partner companies	#lines
ZL135423	ZP1716	ZL171326	CML563	CAL14137	BIOSEED	9
ZL153708	ZP1710	ZL171333	CML579	CAL1514	Ajeet Seeds	7
ZL1612	ZP1715	ZL171402	ZL11456	CAL1733	Rasi Seeds	11
ZL135440	ZP1717	ZL126614	CAL14135	CAL1723	Bisco	8
ZL171297	ZP1714	VL109126	CML451	CAL1441		
ZL153494	ZP1713	ZL153793	CAL1510	ZL17333		
ZL153493	ZL153708	ZL131231	ZL14499	ZL155285		
ZL135437	ZL135387	ZL131206	CAL1510	ZL154308		
ZP1713	ZL135274	ZL131247	CAL153	CAL14135		
ZL153688	ZL171302	ZL131237	CAL147	ZL155542		
VL108727	ZL153602	VL145717	CAL153			
ZL153493	ZL135423	ZL131215	ZL11456			
VL1055	ZL1614	ZL131245	CAL14137			
VL1036	ZL171337	VL1055	CIL12180			
		VL1036				

A series of experimental hybrids (joint hybrids and/or CIMMYT bred hybrids) were taken forward for testing by partners in their respective target ecologies/markets through state and/or AICRP testing network (Table-7).

Table-7: Hybrids entered into station trails, state trials and/or AICRP testing network.

ICAR-IIMR

NIVT- Medium 2019-20	AVT-I Medium 2019-20
IMHSB-19R-3	IMHSB-17R-8
IMHSB-19R-4	IMHSB-17R-9
IMHSB-19R-6	IMHSB-17R-16
IMHSB-19R-7	IMHSB-17R-17
IMHSB-19R-8	IMHSB-17R-3
IMHSB-19R-11	IMHSB-17R-14
IMHSB-19R-13	
IMHSB-19R-14	
IMHSB-19R-15	
IMHSB-19R-18	

Other partners

Partners	#Comb.
BHU, Varanasi	12
BIOSEED	22
RASI	18
BISCO	10
Ajeet Seeds	23

OUAT, Bhubaneshwar

1.	ZH17225	OMH 17-19	NIVT - Medium	All zones
2.	ZH17228	OMH 17-24	NIVT - Medium	All zones
3.	ZH159	OMH 17-47	AVT 1- Medium	2 (NWPZ)

AAU, Godhra

Sr. No.	Name of the hybrid	Sr. No.	Name of the hybrid	Sr. No.	Name of the hybrid
	Trial :AAU-OS-12 (Rabi 2017-18)		**Trial :AAU-OS-11 (Rabi 2017-18)**		**Kharif trials**
1	ZH161047	4	ZH161464		**MLT-1**
2	ZH17705	5	ZH161210	11	VH11130
	Trial :HY17101-216 (Rabi 2017-18)	6	ZH161032		**HY17101-1**
3	ZH161398	7	ZH17191	12	CAH1511
		8	ZH161050		
		9	ZH161100		
		10	ZH161051		

3.6 Identification of trait donor lines for drought/waterlogging stress:

Apart from identifying bets performing promising hybrids, trait donor lines for drought and/or waterlogging tolerance was identified by evaluation cross combination with multiple testers and evaluation across moisture regimes. Seven most promising lines carry varying degrees of tolerance to drought or combined drought and waterlogging were identified and released as international public good, in form of CIMMYT Maize lines i.e.- CMLs 562, 563, 564, 565, 578, 579 and 580. These elite tropical Asia adapted lines are released globally for use of partners in their breeding program. A brief about each of the lines is presented as Table 8.

Table 8. Trait donor lines with drought (DT)/heat/waterlogging (WL) tolerance globally released as CIMMYT Maize Lines (CMLs).

CML number	Year of global release	Maturity	Male GDD (10/35) d°	Female GDD (10/35) d°	Resistance to Turcicum (1-9)	Ear rot (1-5)	Seed Yield (t/ha)	Grain Color	Heterotic group	Stress tolerance
562	2017	Early	801	839	4.6	1.0	2.5	White	A	DT, WL
563	2017	Med/Late	954	954	4.8	1.0	4.0	Yellow	A	DT & WL
564	2017	Ealy/Med	801	801	4.2	1.0	2.7	Yellow	B	DT
565	2017	Med/Late	940	954	4.6	1.0	3.3	Yellow	A	DT, WL
578	2018	Ealy/Med	1028	1061	1.4	1.3	3.2	Yellow	A	DT
579	2018	Late	1247	1266	1.4	1.0	3.7	Orange	A	DT
580	2018	Med/Late	1200	1230	1.7	1.0	4.0	Orange	A	DT

4. Bilateral project 2 - Heat tolerant maize for Asia (HTMA):

The project Heat Tolerant Maize for Asia (HTMA), supported by USAID under Feed the Future (FTF) initiative, was launched in 2012 in a public-private alliance mode. Led by CIMMYT the project was implemented in partnership of national maize programs and seed company partners in Bangladesh, Bhutan, India, Nepal and Pakistan. In its 1st phase (2013-2018) the project made significant progress on various fronts, including (a) assessment of the impact of current and future heat stress on maize in South Asia, clearly showing that heat stress affected areas in South Asia will increase under the future climate, particularly in the pre-monsoon and monsoon season; (b) first hypothesis on the gene networks formulated that confer tolerance to heat stress in maize and identification of specific candidate genes for future functional characterization; (c) first extensive description of the maize leaf transcriptome and lipidome re-modulation in response to heat stress on maize; (d) GWAS-identified and validated genomic regions for heat tolerance with most stable associations (S3_219780373-220028155 and S7_168290256-168465445) that can be potentially used for marker-assisted breeding for improving heat tolerance in maize; (e) improved populations using rapid cycle genomic selection (RC-GS), with a series of doubled haploid (DH) lines derived from these populations; (f) licensing of a total of 35 best-bet heat stress tolerant maize hybrids from CIMMYT to project partners in South Asia, including partners from public sector, SMEs and multinational companies for large-scale testing, seed scale-up and deployment in the target agro-ecologies/markets. (g) Six hybrids are officially released for cultivation, two each in Bangladesh, India and Nepal.

The second phase of the project, HTMA-II (2018-2023) is built upon the progress made in phase 1, and take forward research leads and outputs of phase-I for piloting, deployment and scale-out. For faster and wider deployment of the products new partnership especially with SMEs in locally operating in the region and farmers' cooperative groups developed. The project is implemented in the partnership of followings public and private sector institutions:

National programs/SAUs:

- ICAR-IIMR, Ludhiana, India
- UAS, Raichur, India
- BARI, Bangladesh
- NMRP, Nepal
- MMRI, Pakistan
- Field Crops Sector, Bhutan

International institutions:

- Purdue University, USA
- USAID
- CIMMYT

Seed companies partners:

- Pioneer Hi-bred, India
- Kaveri Seed Company Ltd., Hyderabad, India
- BRAC, Bangladesh
- ACI Seed industry, Bangladesh
- Supreme Seed Company Pvt. Ltd. , Bangladesh
- Lal Teer Seed Company, Bangladesh
- Krishibid Group, Bangladesh
- The SEAN Seed Service Centre Ltd. (SSSC), Nepal
- Jullundur Private Limited (JPL), Pakistan
- Hi-sell Seed Industry, Pakistan
- BIOSEED Research, Hyderabad, India
- Ankur Seeds Pvt. Ltd., Nagpur, India
- Metahelix Life Science Ltd., Bangalore, India
- Bisco Biosciences Pvt. Ltd., Hyderabad
- Saya Ji Seeds, India
- Kumar Bioseeds, India

Salient achievements of the project during the year under report are as follows:

4.1 Rapid cycle-genomic selection (RC-GS) for heat stress tolerance:

Six multi parent synthetic populations (MPS1 to MPS6) were developed, three each belonging to CIMMYT heterotic group A (HG-A) and B (HGB), for implementation of genomic selection for heat stress tolerance. From each population 300-600 S_1 families were derived, genotyped with medium density SNP markers for implementing genomic selection in the populations. The families were test crossed and the test crosses were then evaluated under heat stress at multiple locations in India, Nepal, Bangladesh and Pakistan. From each population, 5 to 10% families based on their superior phenotypic performance were selected and intermated to form the first cycle (C1) of recombination. To further recombine the cycle 1 (C1) to the next cycles (C2 to C3), the plants used for recombination were selected on the basis of their genomic estimated breeding values (GEBVs) estimated based on the genomic selection model developed on the S_1 families of MPS population (training set).

A set of 722 DH lines were received from different improved cycles of these six multi parent populations. Nearly 50 % of these lines received were multiplied and test crossed to opposite heterotic group testers. These were phenotyped under heat stress in Spring 2019 across locations in India and Bangladesh. (Fig. 6). Interestingly, the average grain yield of best entries was substantially higher in severe stress (37%) and moderate stress (13%) environments in comparison to the best commercial checks used in the study. In addition, the number of entries that out-performed the best commercial check were also higher under moderate and severe stressed environments. This also validates the breeding strategy followed to achieve significantly higher yield under heat stressed environments, without yield loss under optimal environments. Ten per cent selection intensity was used and based on the genomic estimated breeding values the DH lines were advanced to stage II testing. In addition, the genetic gains made in the three improved recombinants cycles from the first two multi-parent populations were also assessed across three different Spring locations in 2019 and gains were recorded in cycle 3 of each of the two population for grain yield under heat stress (Fig. 7). For these 50 lines representing each cycle were test crossed to opposite heterotic group testers along with founder lines that formed the C0 selection. These crosses were arranged in a split plot design and evaluated for heat stress tolerance at three locations with in India during spring 2019. The gains varied across the three locations for the two population, however, in both the population, average gains per cycle recorded was 512 kg/ ha (MPS-1) and 285 Kg /ha (MPS2) respectively.

4.2 Introgression of validated genomic regions for improving heat tolerance in elite germplasm:

Another strategy employed to fast track the development of heat stress resilient hybrids was identification of genomic regions for heat stress tolerance through a genome wide association study, and validation studies by QTL mapping, followed by deployment of these identified regions in back crosses populations developed using multiple heat stress tolerant donor lines for simultaneous introgression and validation. Fifteen back crosses were generated in the background of CML451, CML472 and CL02450 with multiple heat, drought and heat + drought tolerant donors like, ZEWBc1F2-216-2-2-B-2-B*4-1-B-1-BB, DRB-F2-60-1-1-1-BBB-3-B, LaPostaSeqC7-F86-3-1-2-1-B*6, LaPostaSeqC7-F18-3-2-2-3-B*7, DTPWC9-F24-2-3-1-3-2-1-2-B*4, POOL16BNSEQC3F10x34-3-1-2-2-B*5, SW5-10-B*5-2-B*6/CML451-BB, DT/LN/EM-46-3-1xCML311-2-1-3)-B-F293-1-1-1-BBB and DT/LN/EM-46-3-1xCML311-2-1-3)-B-F14-1-1-1-B1-BB. These were genotyped for polymorphic markers already found to be associated with heat tolerance, and lines

with maximum number of favourable loci were selected and bulked from each population for DH induction. 1023 DH lines were obtained in total from 20 BC bulks. 927 lines were genotyped with segregating markers used to screen the back-cross generation (Table 5). These lines were test crossed and evaluated in multiple locations in 2018 and some promising heat tolerant lines and combinations were obtained. 10 percent selection intensity was applied and the top entries were forwarded to a second round of testing under heat stress in larger plots during 2019 Spring at 7 locations (Fig. 8). Based on this entry (47) with better performance under heat stress have been identified and advanced to stage III testing during spring 2020.

4.3 New generation of stress-resilient hybrids for hot-dry environments:

A set of advanced stage hybrids, were evaluated at in multi-location trials (58 sites) in larger size plots ($100m^2$) in India, Bangladesh, Nepal, Bhutan and Pakistan during spring 2019 (Table-9). The across location analysis of the hybrids under high VPD (optimal condition) ranged between 7.75 t/ha to 7.04 t/ha with a mean of 7.43 t/ha. Under optimal condition the hybrids performance was in on-par with the internal and commercial checks, whereas in moderate stress condition hybrids *viz.,* ZH16930 (5.75 t/ha), ZH16929 (5.40 t/ha) and ZH182087 (5.37 t/ha) out-performed the internal and commercial checks. Under severe stress condition, mean performance of the hybrids was 0.97 t/ha with a range of 1.87t/ha to 0.74 t/ha. Notably, under severe stress condition hybrids viz., ZH1774, ZH182084, ZH16930, ZH182082 ZH16822, ZH1768, ZH1770 performed better than the internal and commercial check. The across location performance indicates that the hybrids viz., ZH16930, ZH1770, ZH1768, ZH182082, ZH16929 (Ranked in top 5 in 10 or more than 10 locations) were found to have a stable performance and out-performed the checks under stress and in on-par with the checks under optimal condition.

Apart from this a number of hybrids at various stages of testing (Stage-1 to Stage-IV) were evaluated across location under varied heat stress regimes and advanced to next stage.

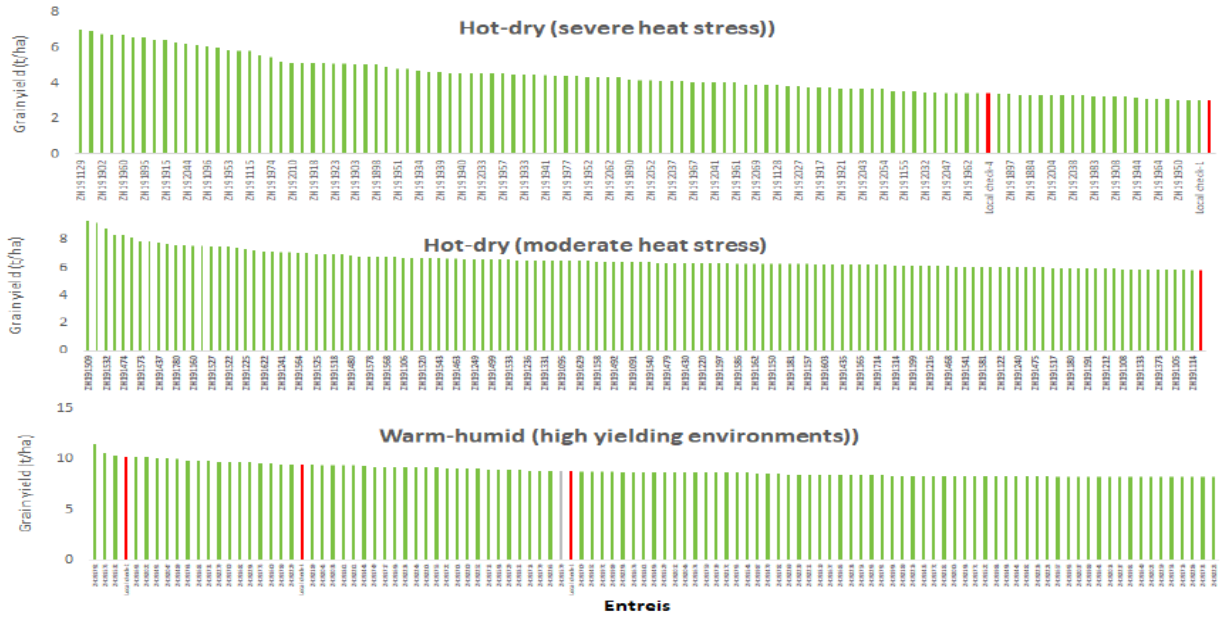

Fig. 6: Performance of DH lines derived from MPS population under low moderate and high yielding environments in Spring 2019 against commercial checks (red bars)

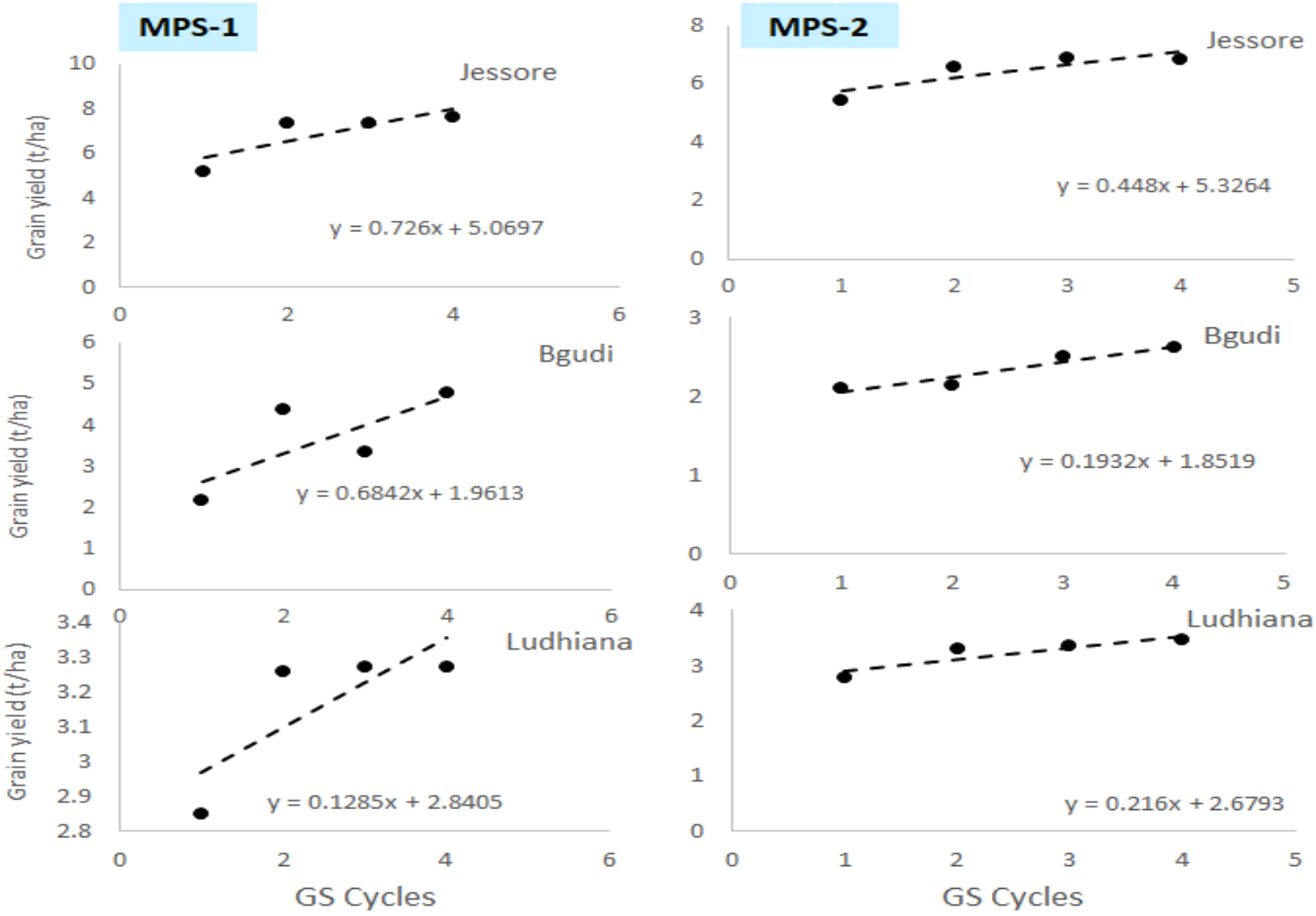
MPS-1
Jessore
y = 0.726x + 5.0697
Bgudi
y = 0.6842x + 1.9613
Ludhiana
y = 0.1285x + 2.8405
Grain yield (t/ha)
GS Cycles
MPS-2
Jessore
y = 0.448x + 5.3264
Bgudi
y = 0.1932x + 1.8519
Ludhiana
y = 0.216x + 2.6793
GS Cycles

Fig. 7: Gains with RC-GS in two MPS population under heat stress tolerance at different locations during Spring 2019.

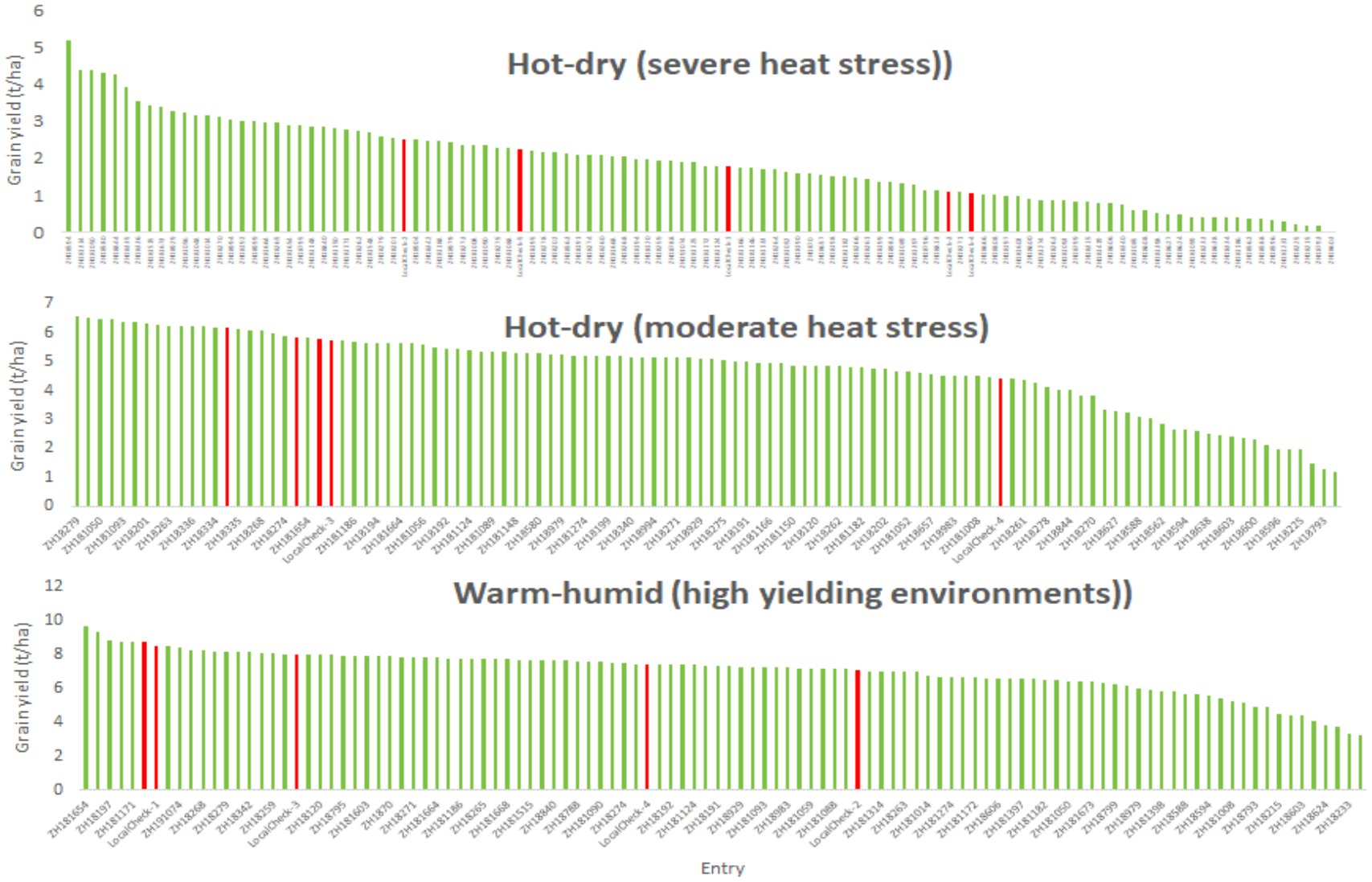

Fig.8: Performance of test-crosses of DH lines derived from back cross-intercross populations during Spring 2019

Table- 9: Across location performance of HTMA hybrids in multi-location evaluation under optimal, moderate and severe heat stress condition. (Hybrids in bold font are top performers in all three conditions)

Optimal (low VPD)				Moderate heat stress				Severe heat stress			
Genotype	**GY**	**AD**	**PH**	**Genotype**	**GY**	**AD**	**PH**	**Genotype**	**GY**	**AD**	**PH**
	t/ha	#days	cm		t/ha	#days	cm		t/ha	#days	cm
ZH16930	**7.75**	61.09	227.73	**ZH16930**	**5.75**	58.9	205.44	ZH1774	1.32	61.75	121.8
LocalCheck	7.72	60.69	218.91	ZH16929	5.40	57.38	204.03	**ZH182084**	**1.06**	62.64	126.2
ZH182084	**7.71**	60.49	214.37	ZH182087	5.37	56.55	203.98	**ZH16930**	**1.03**	63.27	138.9
ZH16899	7.71	59.58	222.82	Int.lCheck	5.33	59.54	212.62	**ZH182082**	**1.02**	62.16	128.9
Int.lCheck	7.69	62	237.06	**ZH1770**	**5.30**	59	207.65	**ZH16822**	**0.99**	62.87	128.8
ZH1770	**7.68**	61.52	230.04	LocalCheck	5.27	58.24	192.81	ZH1768	0.95	62.57	121.7
ZH182082	**7.61**	60.22	211.05	ZH141592	5.25	58.08	193.83	**ZH1770**	0.95	63.96	136.4
ZH192308	7.54	60.49	211.45	ZH1768	5.21	57.31	210.21	Int.lCheck	0.93	63.82	135.7
ZH141592	7.52	60.8	222.59	**ZH182084**	**5.21**	56.56	194.52	ZH16114	0.93	61.46	145.5
ZH16929	7.48	60.57	227.57	**ZH182082**	**5.15**	56.79	191.25	ZH1688	0.91	63.85	143.7
ZH16822	**7.46**	60.3	224.89	ZH16817	5.10	56.25	193.99	ZH16899	0.90	62.95	109.1
ZH1768	7.37	60.77	224.92	**ZH16822**	**5.01**	57.1	199.5	ZH192308	0.88	63.39	153.2
ZH16114	7.32	59.82	208.93	ZH16899	4.98	56.18	201.47	ZH16399	0.85	63.69	133.7
ZH182087	7.31	60.1	217.58	ZH161003	4.94	56.33	182.61	ZH16311	0.81	63.02	151.1
ZH1774	7.29	59.62	206.33	ZH192308	4.92	56.04	178.17	LocalCheck	0.81	62.9	143.3
ZH161003	7.23	59.7	213.18	ZH1774	4.57	55.71	169.36	ZH16929	0.80	64.58	119.3
ZH16817	7.23	59.51	214.03	ZH1688	4.51	55.45	175.65	ZH16817	0.77	63.12	131.7
ZH16311	7.10	59.27	214.71	ZH16114	4.28	56.13	181.2	ZH141592	0.76	65.73	114.5
ZH16399	7.08	60.49	214.09	ZH16399	4.25	57.03	186.82	ZH161003	0.76	62.27	138.2
ZH1688	7.04	59.78	206.92	ZH16311	4.03	55.93	182.8	ZH182087	0.74	63.55	130.5
Mean	**7.43**	**60.34**	**218.46**		**4.99**	**57.03**	**193.4**		**0.93**	**63.18**	**132.6**
h	0.54	0.7	0.84		0.71	0.82	0.9		0.53	0.53	0.88
SE	0.57	1.24	9.25		0.68	1.36	9.65		0.59	3.81	9.32
CV%	13.31	3.04	5.22		16.21	3.01	5.58		54.77	8.17	7.87

5. ICAR-CIMMYT trials on disease résistance:

5.1 Turcicum leaf blight (TLB):

As part of the approved work plan under the AICRP workshop in 2019, three trials were constituted for phenotyping for TLB.

- Advanced generation inbred lines (100) derived from line conversion of elite CMLs using marker assisted backcross selection, CIMMYT Asia lines and CMLs were sent to three AICRP centres as replicated trial (1) SKUAS&T, Kashmir, (2) ZARS Farm, Mandya (3) ICAR-NOFRI, Sikkim.
- Heritability of the trials were 0.7, 0.4 and 0.5 at SKUAS&T, Kashmir, ZARS Farm, Mandya and ICAR-NOFRI, Sikkim, respectively.
- Range of disease scores of the lines at three locations is represented in the Fig.9 and the summary statistics of the trials are listed in Table 10.

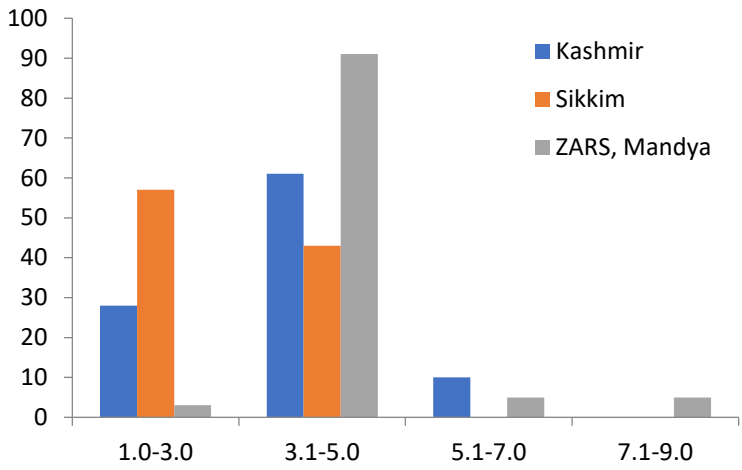

Fig 9: Phenotypic variability of advance generation lines for TLB at ICAR-NOFRI, Sikkim, SKUAS&T, Kashmir and ZARS, Mandya during the year 2019.

Table 10: Summary statistics of the trials at ICAR-NOFRI, SKUAS&T and ZARS-Farm for TLB evaluation during kharif 2019

	ICAR-NOFRI	SKUAS & T	ZARS Farm
Mean	3.1	3.6	4.0
CV	19.8	19.4	17.6
Min	1.5	2.3	2.6
Max	4.9	6.1	6.6
Heritability	0.5	0.7	0.4

5.2 Banded leaf and sheath blight (BLSB):

As per the approved AICRP work plan of 2019, two trials were constituted for BLSB.

- A set of 50 and 100 advanced generation inbred lines derived from bi-parental cross between involving *Nei* lines from Thailand germplasm and one BLSB resistant line from China, CIMMYT

Asia elite lines and CMLs were evaluated at PAU, Ludhiana and HAU, Karnal respectively during kharif 2019.

- Heritability estimate of the trials were 0.6 at Ludhiana and 0.2 at HAU, Karnal.
- Phenotypic variability of the lines at two locations is represented in the Fig. 10 and the summary statistics of the trials are listed in Table 11.
- Line showing resistance to BLSB will be used in developing new crosses and multi-parent synthetic populations for BLSB resistance. AICRP partners also will include the resistant lines identified in the research programs for resistance to this disease.

Table 11: Summary statistics of the trials planted at PAU, Ludhiana and HAU, Karnal for BLSB resistance during 2019

	PAU, Ludhiana	HAU, Karnal
Mean	6.7	6.4
CV	13.2	19.1
Min	4	3.9
Max	9	8.1
Heritability	0.6	0.2

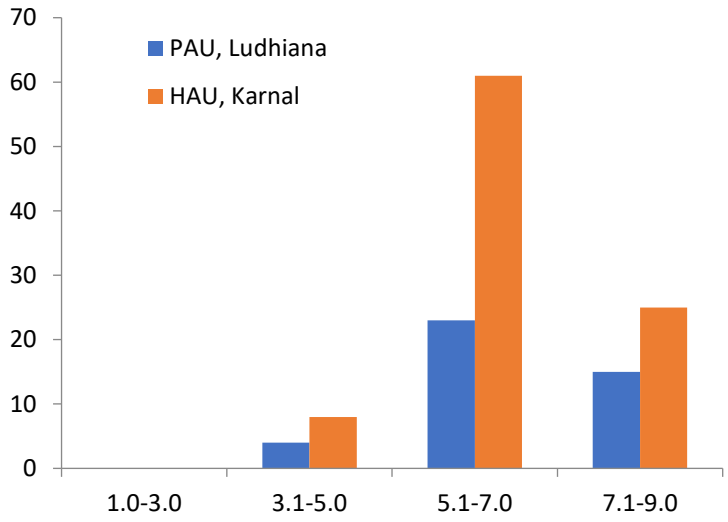

Fig 10: Disease score range of advanced generation lines for BLSB at PAU, Ludhiana and HAU Karnal during the year 2019.

6. International Maize Improvement for Asia Phase II (IMIC-Asia II)

The delivery of germplasm, tools and technologies as International Public Goods (IPGs) has been a routine at CIMMYT. CIMMYT has been ensuring the impact of such technologies on farmers' field by catalysing partnerships through recognizing the complementary strengths of seed partners, especially the private companies, in delivering maize technology (especially seed) through wide networks of marketing and distribution, to the intended farmers. Therefore, as a formalized channel to engage with R&D partners, the International Maize Improvement Consortium for Asia (IMIC-Asia) was initiated and has been operational since 2010, through the following sub-projects.

- *Sub Project 1*: Development and distribution of improved maize source germplasm and commercially viable inbred lines for partner identified commercial maize segments: viz. South India Kharif, Central and Western India Kharif, North and East India Kharif, Spring Maize, South India Rabi.
- *Sub-Project 2*: IMIC Multi-Location Evaluation Network for identifying superior IMIC germplasm and evaluation of partner pre-commercial hybrids
- *Sub-Project 3*: Capacity Strengthening through Training on breeding, stress phenotyping, data management, statistics, genomics and seed systems
- *Sub-Project 4*: Value-Added IMIC Services – QA/QC genotyping, disease phenotyping services, etc.

Along with about 25 seed companies, AICRP on Maize (with ICAR-IIMR as the lead centre) has been an honorary member, since 2013. Director, ICAR-IIMR has been a member of the Project Steering Committee which meets periodically to review the progress and give recommendations on project execution. In 2014, Dr. Swapan Datta (then DDG-CS, ICAR) attended the Steering Committee Meeting, the IMIC-Asia Field Day and the General Body Meeting as a special invitee. During the Steering Committee Meeting, Dr. Datta endorsed the concept of IMIC and was very pleased to note that AICRP-Maize was a member of this consortium. He further endorsed the establishment of a maize centralized DH facility in India and the CIMMYT Product Allocation Guidelines (through which CIMMYT has been allocating geographically exclusive licenses on CIMMYT combinations for public and private seed partners to commercialize).

Some notable achievements to date include:

- Successful conduct of IMIC-Asia Germplasm Field Days in 2012, 2014, 2018 (and March 2020) where over 4500 early generation and fixed lines have been demonstrated and all selections distributed. AICRP-Maize collaborators (including ICAR-IIMR) have received at least 1664 unique entries in about 6000 seed packets.
- IMIC Multi-location Evaluation Network covering the prioritized 5 Indian maize market segments formed and IMIC trials containing pre-commercial member hybrids have been coordinated for Spring, Kharif and Rabi seasons every year. Trials have been distributed, data collated, analyzed and results reported every season. Test-cross evaluation from this effort has been used to identify superior inbred lines that have been displayed at each field day. AICRP Maize has been an integral part of this network (sites used in 2019 listed in Table-12 below).

Table 12: Indian Maize Program locations used for evaluation in the reporting period

IMIC Partner	Locations
ANGRAU	Peddapuram (AP), Vijayarai (AP), Nandiyal (AP)
GBPUAT Pantnagar	Pantnagar (UK)
PDKV Akola	Buldana (MH)
UAS Dharwad	Dharwad (KA)
UAS Bangalore	Mandya (KA)
UAHS Shivamogga	Kathalagere (KA)
UAS Raichur	Bheemrayangudi (KA)
BAU Sabour	Sabour (BR)
ICAR- IIMR, Ludhiana	Ludhiana (PB), Vagarai (TN), Karimnagar (TS), Banswara (RJ)

- Over 150 IMIC participants have been trained in 11 courses since 2010. Topics covered include maize breeding, stress phenotyping, statistics, genomics, data management and seed systems. More recently:
  - Eight scientists from the Indian Maize Program were trained on "Statistical, Biometrical and Genomic Methods Applied to Maize Breeding". This training was held at ICRISAT campus on 3-6 October 2018
  - Nine scientists from the Indian Maize Program were trained on "Maize Seed Systems Research and Seed Production". This training was held at ICRISAT campus on 4-5 December 2019.

The successful conduct of the IMIC Asia II Field Day in March 2020 and the subsequent distribution of germplasm (yet to be done) will be described in the next report.

7. Doubled-Haploid Platform for Accelerated Maize Breeding

Doubled haploid (DH) technology is the primary mode of deriving new, genetically homozygous maize inbred lines by several large private sector breeding programs. The NARS and small- and medium-sized seed enterprises (SMEs) in several Asian countries, including India, have so far not derived benefits out of maize DH technology for various reasons. The reasons include, lack of: (a) adequate technical know-how, (b) capacity to effectively use tropicalized haploid inducers (although these are available to both public and private institutions from CIMMYT on specific MTA), and (c) a centralized cost-effective platform for deriving DH lines from diverse source populations of interest. An urgent requirement for establishing a state-of-the-art maize DH facility in India came out clearly, in a survey, conducted by CIMMYT and the ICAR-Indian Institute of Maize Research (IIMR – formerly DMR) as expressed by the NARS institutions and Indian seed companies. Hence, this critical gap will be filled through this initiative.

Objectives of the Maize DH Project

1. To establish and operate a centralized maize DH platform with a capacity to produce at least 25,000 DH lines per year to serve the breeding programs in India and other South and South East Asian Countries.
2. To offer DH development service to NARS and SME seed companies (besides CIMMYT) on specific terms and conditions and/or on a cost-recovery basis, as applicable;
3. To develop, validate and offer whole genome enabled prediction services for resource-efficient identification of superior DH lines for a range of biotic and abiotic stress resilience traits; and

4. To undertake training/capacity building of public and private sector partners in South and South East Asia on effective use of DH lines in maize breeding and hybrid development strategies.

Facility Location:

The Maize Doubled Haploid Facility will be located at Agricultural Research Station, Kunigal which is under the management of the University of Agricultural Sciences, Bangalore. An extensive survey of sites in India was done by CIMMYT for selecting a suitable site. Based on the criteria such as availability of dedicated 12 acres of land with good soil quality and adequate supply of water for irrigation, conducive environmental conditions (temperatures, lower disease pressure, minimal exposure to abiotic stress) that accommodate growing of populations adapted to diverse agro-ecologies all through the year. This site is close to Bangalore and is easily accessible.

Role of Partners

- CIMMYT Global Maize Program, through its breeding hub based in ICRISAT-Hyderabad, will coordinate the DH Facility establishment, provide technical oversight on the platform establishment and line development operations. CIMMYT's maize DH specialists based in Kenya will provide necessary technical inputs on DH platform establishment and will periodically visit the DH platform to ensure compliance of the SOPs. CIMMYT Global Maize Program Director will provide technical oversight on the entire project and ensure its alignment with DH research-for-development strategy.
- UAS-Bangalore will provide the site and facilitate the establishment of the facility.
- ***The All-India Coordinated Maize Improvement Program, coordinated by ICAR-Indian Institute of Maize Research (IIMR) will be one of the key stakeholders.***
- NARS and SME seed companies based in India and other South and South East Asian countries will be the key clients of the maize DH development service, which will be managed by CIMMYT, while maintaining necessary confidentiality of the germplasm identity.

Project Governance

A Project Steering Committee, will comprise the Director of CIMMYT Global Maize Program (as Chair), and members comprising the Project Principal Investigator from CIMMYT, the Director of Research of UAS-Bangalore, **Director of ICAR-Indian Institute of Maize Research.**

Progress

MoA for the establishment of this facility was signed in February 2019. Architectural designing has been completed and construction work is expected to begin as soon as the COVID-19 situation is eased. The facility is expected to be functional by February 2021.

Funding

This facility is being established with partner grants from the CG Research Program on Maize (CRP MAIZE)

8. Establish screen-houses for the Fall Armyworm (FAW*):*

Native to the Americas, the fall armyworm (FAW; *Spodoptera frugiperda* (JE Smith); Lepidoptera, Noctuidae) was first reported in India in June 2018. Subsequently, in a matter of months, the confirmed incidence of the pest was reported in many South and South East Asian (SSEA) countries – Nepal, Bangladesh, Sri Lanka, Bhutan, Myanmar, Thailand. It has been causing extensive damage, especially to maize fields and to a lesser degree sorghum and other crops. Though new agricultural pests are periodically introduced in agricultural environments, a number of characteristic factors make FAW a more devastating pest than many others:

- FAW is capable of feeding on over 80 different crop species, making it one of the most damaging crop pests. While FAW has a preference for maize, it can also affect many other major cultivated crops, including sorghum, rice, sugarcane, cabbage, beet, groundnut, soybean, onion, cotton, pasture grasses, millets, tomato, potato, and cotton.
- FAW spreads quickly across large geographic areas. Like other moths in the genus *Spodoptera*, FAW moths have both a migratory habit and a more localized dispersal habit. In the migratory habit, moths can migrate over 500 km before oviposition. When the wind pattern is right, moths can move much larger distances.
- FAW can persist throughout the year wherever host plants are available, including off-season and irrigated crops, and climatic conditions are favorable.

As part of the initiative on FAW Management, CIMMYT has been leading the global effort since the pest was reported in Africa in 2016. Several notable achievements include:

1. The publication of the FAW IPM Guide for Africa in Jan 2018;
2. A video on FAW Identification and Scouting through SAWBO (Scientific Animations Without Borders), and its translation into major Indian languages
3. FAW Pest Management Decision Guides for various countries by CABI-USAID-CIMMYT team
4. Organization of innumerable FAW sensitization workshops and meetings across Asia and Africa, the most recent of which was the **Regional Workshop on FAW Management in Asia** held at ICRISAT campus, Hyderabad from 1-3 May 2019. Global experts were the resource persons and the meeting was attended by regional stakeholders and representatives from several ICAR institutions including: Indian Institute of Maize Research, Indian Institute of Millets Research, National Bureau of Agricultural Insect Resources, Indian Agricultural Research Institute, representatives of the Ministry of Agriculture – GOI, and various State Agricultural Universities.
5. Identification of CIMMYT inbred lines and hybrids within CIMMYT's vast array of diverse germplasm having partial resistance to FAW. CML71 and CML338 are amongst CMLs elite materials that have been identified. This has only been possible due to the decades of work on insect resistance that CIMMYT has been involved with. Largely, resistance to FAW has been found to be prevalent in the Caribbean and Tuxpeño germplasm. However, central to any germplasm improvement work is the ability to screen for FAW under controlled no-choice conditions.

CIMMYT, through funding from the CG Research Program on Maize (CRP MAIZE) plans to establish one screen house each at ICAR-IIMR Winter Nursery (Rajendranagar), Acharya NG Ranga Agricultural University at Bapatla, and ICRISAT campus at Hyderabad. With one acre under each screen house the immediate key activities would include:

1. Rearing of at least 1,50,000 neonate larvae per season (3 larvae per plant x 22750 plants per acre [in 3m rows] x 1 acre x 1 season) and infestation of 1 acre of maize under the screen house per season.

2. Screening of 700 entries (in 2 replicates) in 3 m rows over 1 acre
3. Import lines with known insect resistance from Zimbabwe and Mexico

Expected Outputs for 2020:
1. Potential FAW resistant inbred lines identified from CIMMYT Asia germplasm.
2. Promising FAW resistant CIMMYT Asia hybrids identified.
3. Preliminary genomic analysis of data to identify potential regions conferring FAW resistance (based on existing genotype information).

Assuming a return to normalcy surrounding the COVID-19 situation, at least 2 screen-houses are expected to be functional by August 2020. Through insect rearing support (on cost recovery basis for the requirement indicated above) from respective institutions, potential sources of resistance to FAW from CIMMYT's diverse germplasm base will be identified. Germplasm improvement work is expected to start from 2021.

9. Path to Commercialization of CIMMYT Hybrid Products

Amongst its wide research for development agenda, CIMMYT is currently focused on targeting and deploying climate resilient maize hybrids (high yielding with tolerances to drought, waterlogging and heat stresses – CIMMYT's USP and something that is lacking in most commercial hybrids) that have been developed. Since CIMMYT does not have the mandate nor the mechanism to deliver seeds to farmers at commercial scale, CIMMYT has been implementing a model of engagement with seed partners (seed companies and state seed corporations) to scale up, commercialize and deploy superior maize hybrids to farmers through a licensing model that ensures a win-win situation for all stakeholders. Through this model, CIMMYT has been licensing (by applying CIMMYT's Product Allocation Policy briefed below) hybrid combinations for commercializing to both public and private partners, free of cost, for seed scale up and deployment through the licensee's marketing modes and channel. In several instances, SAUs have further sub-licensed their allocated hybrid to seed companies. Whatever the specific modus operandi of such an engagement model, CIMMYT being a non-profit organization, only takes away statements/testimonies and data of impact.

Product Hybrid Licensing (Allocation) Policy:

Based on a formal request by members, hybrids are allocated (licensed) to collaborators in accordance with the CIMMYT Product Allocation Policy and Standard Material Transfer Agreement (SMTA). Allocation/licensing, which is essentially a permission to commercialize (preceded by hybrid notification if required or desired) a particular hybrid combination, is given to one single partner in a target market (semi-exclusive), based on the merits of the bid. Information on which partner is licensed a hybrid combination is confidential between CIMMYT and the respective partner for its marketing. The recipient of this license becomes the maintainer of the hybrid variety, and may give the hybrid a unique name. The recipient is therefore not obliged to publicly reveal the source of the variety nor provide parental seed to other interested parties. However, CIMMYT continues to reserve the right to freely distribute the inbred lines of a licensed hybrid (but will not reveal the licensed combination) as products of International Public Good. At present a product allocation license for a CIMMYT pre-commercial hybrid to any public or private sector institution is free of cost.

Several SAUs (including AICRP partners) have been licensed CIMMYT combinations. Several of these hybrids are in commercial production (Table-13).

Table 13. List of SAUs (including AICRP Maize) that have received CIMMYT hybrid Licenses.

Row Labels	2015	2016	2017	2018	2019	Grand Total
Anand Agricultural University				3		3
ANGRAU India				1		1
BAU, Sabor		3			1	4
Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola					1	1
GBPUAT	6		2			8
OUAT	5					5
SKUAST Jammu	2		1			3
UAHS Shimogga				1		1
UAS Bengaluru	8					8
UAS Dharwad			3	1		4
UAS Raichur	5	4	6			15
Grand Total	**26**	**7**	**12**	**6**	**2**	**53**

10. Sharing of germplasm:

During 2019-20 indented lines from CIMMYT-Hyderabad and Mexico were shared with ICAR-IIMR and AICRP centres (Table-14) for using their breeding program, as listed below:

Table 14: Indented lines shared with ICAR-IIMR and AICRP centres.

CIMMYT-Mexico	
Institute	#Lines
PAU	11
PAU	45
ICAR-IARI Pusa New Delhi	25
PJTSAU, Hyderabad	2
ICAR-NBPGR New Delhi	17

CIMMYT-Hyderabad, India	
#Shipments	**60**
#Lines (early/advanced)	**661**

Included in the above are partially insect resistant lines CML71 and CML338 that have been shared with PAU and TNAU.

11. Sustainable Intensification of Maize Based Systems

Agriculture's contribution to the Sustainable Development Goals (SDGs) requires climate-smart and profitable farm innovations. In the last decade, attention has been given to conservation agriculture (CA) as a 'sustainable intensification' strategy, although a lack of evidence-based consensus on the merits of CA prevails in the context of intensive and smallholder farming systems. Long-term basic and strategic process-based research on conservation agriculture based sustainable intensification of major maize based systems in key geographies of India were carried-out to generate science-based evidence. The key thematic area research and capacity development includes systems optimization and sustainable intensification through diversification, precision water and nutrient management, nitrogen dynamics in CA and drip irrigation, Genotype x Management interactions in maize systems, Conservation agriculture and soil health, Climate smart maize systems and Adapted mechanization. The research was undertaken jointly by ICAR/NARS and CIMMYT under the umbrella of ICAR-CIMMYT workplan and was supported by ICAR- (W3), CGIAR Research Program on Climate Change, Agriculture & Food Security (CCAFS) and Maize Agri-Food Systems (MAIZE). The activities A brief summary of the 2019 outputs is given below-

11.1: Strategic research:

Strategic research on exploring the scope and implications of diversifying rice-wheat systems in North-West India: In Northwest India, due to growing concerns related to declining water tables, scarcity of labour and energy, soil quality deterioration, air pollution due to residue burning and climate change induced stresses, there is growing interest of the policy planners in intensifying and diversifying the current rice-wheat cropping system. Maize is one which has potentially productive and profitable as rice and consume 80-90% less irrigation water. A production scale process-based study has been undertaken exploring all possible scenarios for production capacity, profitability, water use and soil health etc. The key results given in Table below indicates that maize coupled with conservation agriculture based sustainable intensification

Table 15- Effect of CA- based sustainable intensification on grain yield and irrigation water use

Scenarios	Crop Rotations	Grain yield (Mg ha^{-1})			Irrigation water use (cm ha^{-1})		
		Rice/ maize/ soybean/ pigeon pea	Wheat/ mustard	System (REY)	Rice/ maize/ soybean/ pigeon pea	Wheat/ mustard	System
1	Rice-Wheat- Fallow	5.73	6.56	12.63	145	56	200
2	Rice-Wheat- Fallow	6.00	7.03	13.39	134	51	185
3	Rice-Wheat-Mungbean	5.58	7.13	13.81 (0.18)	141	49	208
4	Maize-Mustard-Mungbean	7.04*	2.70****	16.16 (0.74)	11	14	41
5	Maize-Wheat-Mungbean	7.82*	6.75	15.47 (0.20)	11	41	65
6	Soybean-Wheat-Mungbean	2.87**	5.73	12.29 (0.17)	11	41	66
7	Pigeonpea-Wheat-Mungbean	1.25***	5.80	12.68 (0.63)	10	39	65

Actual yield of maize; ** Actual yield of soybean; ** *Actual yield of pigeon pea; ** Actual yield of mustard; Values in parenthesis indicated the actual grain yield of mungbean*

11.2 New state recommendations on maize systems:

Based on the strategic research on Food-Energy-Water (FEW) nexus in collaboration with PAU, state recommendation on subsurface drip irrigation under CA in maize -wheat systems have been made for their scaling in Punjab/North-West India

11.3 Meta-genomic studies under long-term CA:

To understand the diversity and richness of soil fungi at phylum and family taxonomic level, meta-genomic studies were conducted in cereal/maize based systems in collaboration with ICAR-CSSRI Karnal. Higher Shannon diversity index was found in CA based maize systems compared to rice-based systems. Maximum types of fungal species were recorded under partial CA based management due to increases food supply to microbes. Ascomycota was a dominating (69-95%) phyla across the management but was recorded higher in CA based rice systems whereas, Zygomycota having mutualistic symbiotic relationships with plants, was dominating in CA based maize systems.

11.4 Nitrogen dynamics under Conservation Agriculture with sub-surface fertigation:

To understand and quantify the nitrogen dynamics under Conservation Agriculture (CA) with sub-surface drip (SSD) irrigation and fertigation scenarios in maize-wheat system, specific studies on (i) modelling of soil water balance in maize using Hydrus-2D and (ii) assessing the NO3-N and NH4-N dynamics in soil under maize were carried out during kharif 2019 in @ CIMMYT-BISA, Ludhiana and in collaboration with ICAR-IARI. The key findings revealed that daily root water uptake (cm) by maize was ~40% higher under CA+SSD with nitrogen application @150 kg/ha compared to conventional tillage during entire simulation period of 43 days (Fig 11). Whereas, under the same treatment, the cumulative evaporation was recorded at lowest signifying higher water use efficiency. The Cumulative Deep Drainage (CDD) followed the trends: SSD N0-R> SSD N0+R> CT 120 N> ZT 120 N> SSD150 N-R> SSD150 N+R.

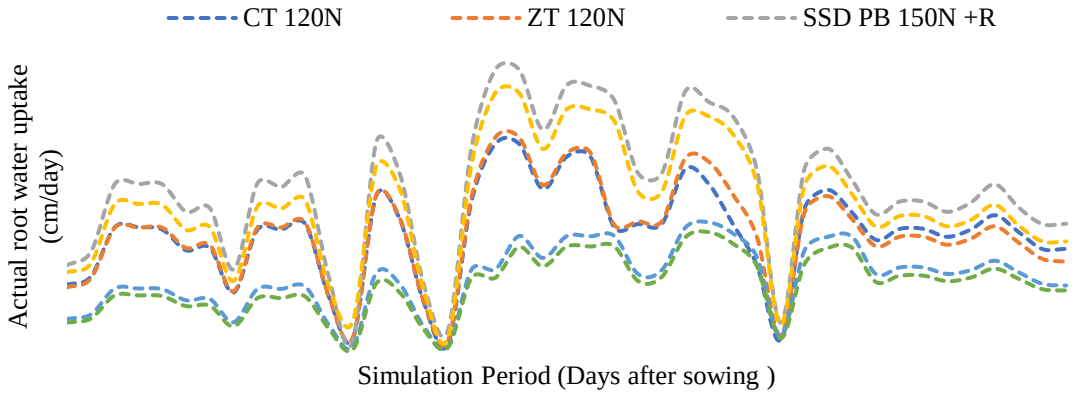

Fig. 11: Simulated actual root water uptake (cm/day) (vertical axis) versus simulated period (horizontal axis) for different irrigation and nitrogen management practices in maize under conservation agriculture-based maize-wheat system. CT: Conventional Tillage; ZT: Zero Tillage; PB: Permanent Beds; SSD: Sub-Surface Drip.

11.5 Genotype x Management interactions in maize-wheat system:

There is a major focus on diversification of rice in North-West India wherein maize is a major candidate crop. However, until the maize productivity is achieved >7.5 t/ha during the kharif season (<100 days in north-west India), diversification of rice is difficult. Therefore, integrating genetics and management through capitalizing on genotype x management (modern agronomy) interactions are critical. A study was conducted at Ludhiana with four management options using major public hybrids (NARS & CIMMYT) and private sector best check rice needs to A field experiment with four managements: The management options includes (i) conventional tillage with flood irrigation (CT-Flood), (ii) zero tillage with flood irrigation (ZT-Flood), (iii) zero tillage with subsurface drip irrigation using recommended N rate (SSD), and (iv) zero tillage with subsurface drip irrigation using low N rate (SSD diff). The results (Figure 12) indicates a good interaction of genotype x management to attain higher yields of kharif maize in north-west India which can help in diversification.

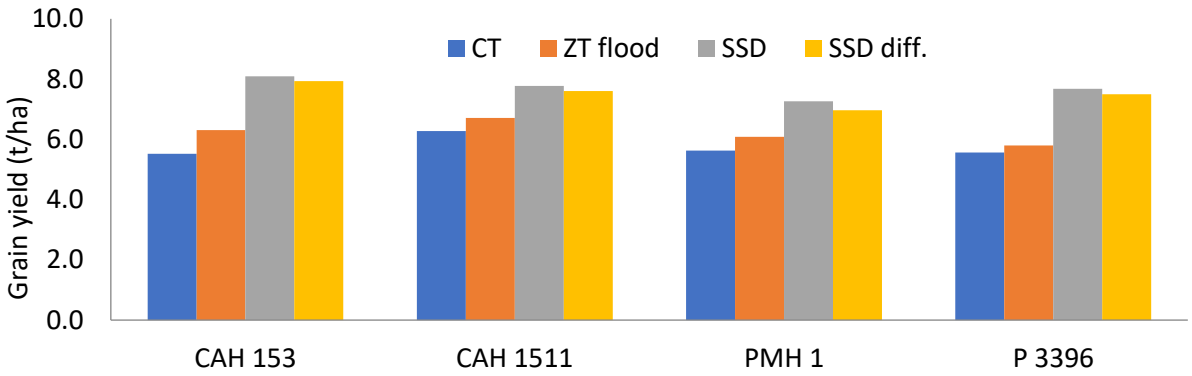

Fig.12: Genotype x management interactions in maize under various managements.

12. Capacity development and knowledge sharing:

This is one the core areas of the ICAR-CIMMYT collaborative program, which is implemented across various projects. Various training courses organized and joint publication brought-out during 2019-20 are as follows:

12.1 Training courses/workshop organized:

- *Maize Seed Systems Research and Seed Production*, 4-5 Dec 2019, Hyderabad
- *Gender responsive maize research & gender mainstreaming in product deployment*, 26 Sep, Nepalgunj, Nepal
- On-site trainings/technical backstopping on managed drought stress phenotyping for project partners under ICAR-funded project on *Kharif* maize
- Advanced Course on CA-Asia and North Africa (6 researchers from Indian)
- South-South collaboration: Capacity development on CA & mechanization in India
- Short-term trainings on CA and sustainable intensification in maize systems

12.2 Students trained through joint studentship:

- Seven students, 3 M.Sc. and 4 Ph.D. (UAS, Raichur, PAU Ludhiana and AAU, Jorhat) worked under joint studentship program, awarded degree.

- Six students (IARI, CCSHAU, PAU) working on various aspects of maize systems

12.3 Policy brief:

A policy brief on "*Roadmap for agricultural development in North-Eastern Hill Region*" was brought out Jointly by ICAR, NAAS, CIMMYT and IAHF

12.4 Joint publications:

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2. Kulkarni, A.P., D.B. Rahut, Ranjit Kumar and P H Zaidi (2019). Value chain analysis of different types of maize hybrid seed: a comparative study of public and private sector in Bihar. *Agricultural Economics Research Review* 32(2), 187-198. DOI: 10.5958/0974-0279.2019.00031.4
3. Jewel Jameeta Noor, M.T.Vinayan, Shahid Umar, Pooja Devi, Muhammad Iqbal, K. Seetharam, P.H. Zaidi (2019). Morpho-physiological traits associated with heat stress tolerance in tropical maize (*Zea mays* L.) at reproductive stage. Aust. J Crop Sci. 13(04):536-545
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8. S.L. Jat, C.M. Parihar, A.K. Singh, H.S. Nayak, B.R. Meena, B. Kumar, M.D. Parihar, M.L. Jat. 2019. Differential response from nitrogen sources with and without residue management under conservation agriculture on crop yields, water-use and economics in maize-based rotations. *Field Crops Research*. 236: 96-110.
9. Sridhar Patra, Stefan Julich, Karl-Heinz Feger, ML Jat, HS Jat, PC Sharma, Kai Schwärzel. 2019. Soil hydraulic response to conservation agriculture under irrigated intensive cereal-based cropping systems in a semi-arid climate. *Soil and Tillage Research*. 192: 151-163.
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