

Annual Progress Report

Rabi Maize

2016-17



All India Coordinated Research Project on Maize

ICAR-Indian Institute of Maize Research

PAU Campus, Ludhiana-141004, India

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Maize hybrids experiment

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BREEDING

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4	Performance of medium maturing experimental hybrids/single crosses/top crosses & composites at Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Kalyani, Ranchi, Sabour, Varanasi, Coimbatore, Dharwad, Karimnagar, Kolhapur, Mandya, Rahuri, Vagarai, Banswara, Godhra in trial no. Tr 5 (AVT I-Medium) during rabi (2016-17)	BR125-138
5	Performance of late maturing experimental hybrids/single crosses/top crosses & composites at Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Kalyani, Ranchi, Sabour, Varanasi, Coimbatore, Dharwad, Karimnagar, Kolhapur, Mandya, Rahuri, Vagarai, Banswara, Godhra in trial no. Tr 7 (AVT II- Late) during rabi (2016-17)	BR139-151
6	Performance of medium maturing experimental hybrids/single crosses/top crosses & composites at Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Kalyani, Ranchi, Sabour, Varanasi, Coimbatore, Dharwad, Karimnagar, Kolhapur, Mandya, Rahuri, Vagarai, Banswara, Godhra in trial no. Tr 8 (AVT II- Late) during rabi (2016-17)	BR152-163
7	Performance of late/medium maturing experimental hybrids/single crosses/top crosses & composites at Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Kalyani, Ranchi, Sabour, Varanasi, Coimbatore, Dharwad, Karimnagar, Kolhapur, Mandya, Rahuri, Vagarai, Banswara, Godhra in trial no. Tr QPM 1-II (QPM1 - Late/Medium) rabi (2016-17)	BR164-176
8	Decoding of entries tested in Rabi 2016-17 coordinated trials	i-xii

Breeding summary of AICRP Rabi 2016-17 trials

During *Rabi* 2016-17, total 99 entries were received for multi-location evaluation in AICRP late, medium maturity and quality protein maize (QPM) trials. Of 99 test entries, 75 entries were received in NIVT, 11 in AVT-I, 9 in AVT-II and 4 entries in QPM trials. Total seven different breeding trials were constituted and put for evaluation at 20 test centres across the four zones. There were 90 entries available for promotion from first and second year of testing, out of which only 33 entries got promoted to their advance stage of testing. The entries were promoted based on the criteria enlisted in table 1. The detail list of entries promoted from rabi 2016-17 to rabi 2017-18 are given in table 2. Out of 44 test entries evaluated in NIVT late, 25 were found superior for set criteria and therefore were promoted to AVT I-Late. Similarly, in NIVT medium, 6 out of 31 entries; and in AVT-I medium, 2 out of 3 were found superior and hence were promoted. In AVT-Late and QPM trials, no any entries were found superior over the check and therefore not promoted.

Table 1. Promotion Criteria used to prepare promotion list for entries from Rabi 2016-17 to Rabi 2017-18

SN	Criteria
NIVT-AVT1	
1.	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 ($P=0.05$)
2.	In medium trials, the test entry should not exceed the relevant best check by 2.0 days in days to 50% Anthesis.
3.	In addition to the above, the entry should have resistance to moderately resistance response on scale 1-9 for major diseases in a zone
AVT-I to AVTII	
1.	Test entry should have 10% superiority in yield over best relevant check in normal and 5% in QPM maize
2.	In medium trials, the test entry should not exceed the relevant best check by 2.0 days in days to 50% Anthesis.
3.	In addition to the above, the entry should have resistance to moderately resistance response on scale 1-9*; for major diseases in a zone * In Advance trials of NEPZ (Z-III), the 1-5 scale have been used for TLB disease

Table 2. List of Entries promoted from Rabi 2016-17 to Rabi 2017-2018

List of Entries promoted from Rabi 2016-17 to Rabi 2017-2018									
NWPZ (Z2) Late maturity [NIVT Late (Tr.1) To AVT I Late (Tr.4)]									
E.N.	Hybrids Name	Yield (Kg/Hac)	Rank	%Sup	Days to 75% dry husk	Days to silking	Days to anthesis	C.ROT (1-9)	Final Remark
35	PM16204L	12659.32	1	16.52	142.00	106.67	103.78	C.ROT (4.6) MR	promoted
4	BLH 116	11374.61	2	4.70	142.33	106.33	103.67	C.ROT (3.8) MR	promoted

BR-2

34	HT 16047	11354.56	3	4.51	142.00	107.67	104.67	C.ROT(6.9) MS	Not promoted
8	DAS-MH-903	11288.10	4	3.90	140.83	106.89	104.44	C.ROT (5.2) MS	Not promoted
38	BIO 305	11223.00	5	3.30	141.83	106.00	103.44	C.ROT (5.0) MR	promoted
11	ADV 7037	11050.70	6	1.72	145.17	111.11	108.11	C.ROT (4.0) MR	promoted
5	HT 16052	10977.93	7	1.05	145.17	108.22	105.67	C.ROT (4.4) MR	promoted
36	VNR-32994	10912.39	8	0.44	144.50	108.33	105.78	C.ROT (5.7) MS	Not promoted
46	Seedtech 2324 (C)	10864.25	9	0.00	140.83	108.56	106.22	C.ROT (4.2) MR	
	CD (5%)	1834.94							
	Cut off yield	10824.38							

List of Entries promoted from Rabi 2016-17 to Rabi 2017-2018

NEPZ (Z3) Late maturity [NIVT Late (Tr.1) To AVT I Late (Tr.4)]

E.N.	Hybrids Name	Yield (Kg/Hac)	Rank	%Sup	Days to 75% dry husk	Days to silking	Days to anthesis	TLB (1-9)	Final Remark
25	PM16203L	10763.72	1	6.95	137.96	100.48	97.38	TLB (7.0) MS	Not promoted
34	HT 16047	10286.12	2	2.20	137.52	101.59	98.16	TLB (4.0) MR	promoted
38	BIO 305	10284.11	3	2.18	136.87	100.97	98.05	TLB (3.5) MR	promoted
19	DKC 9181(IR8494)	10242.55	4	1.77	139.56	103.21	100.51	TLB (2.5) R	promoted
29	MM2033	10234.91	5	1.69	139.02	104.05	101.02	TLB (2.5) R	promoted
44	PM16205L	10153.19	6	0.88	134.82	99.90	96.55	TLB (4.5) MR	promoted
10	CMH 2829	10120.67	7	0.56	137.82	99.55	96.73	TLB (5.0) MR	promoted
9	Super 3366	10096.99	8	0.32	138.82	102.97	99.83	TLB (5.0) MR	promoted
45	Bio 9681 (C)	10064.69	9	0.00	130.82	100.16	96.75	TLB (3.0) R	
	CD (5%)	1615.45							
	Cut off yield	9148.27							

List of Entries promoted from Rabi 2016-17 to Rabi 2017-2018

PZ (Z4) Late maturity [NIVT Late (Tr.1) To AVT I Late (Tr.4)]

E.N.	Hybrids Name	Yield (Kg/Hac)	Rank	%Sup	Days to 75% dry husk	Days to silking	Days to anthesis	C.ROT (1-9)	Final Remark
22	PM16202L	8145.09	1	11.21	108.78	68.00	65.39	C.ROT (4.7) MR	promoted
16	DAS-MH-904	8085.10	2	10.39	109.39	69.44	66.94	C.ROT (4.3) MR	promoted
4	BLH 116	8025.50	3	9.58	109.61	69.89	67.00	C.ROT (3.1) R	promoted
7	ADV 7139	7917.90	4	8.11	109.83	70.56	67.72	C.ROT (4.3) MR	promoted
21	DKC 9188(IR8737)	7814.45	5	6.70	110.56	70.89	68.33	C.ROT (4.7) MR	promoted
25	PM16203L	7707.45	6	5.24	109.44	69.39	66.61	C.ROT (4.2) MR	promoted
43	GK3208	7652.58	7	4.49	110.83	70.78	67.67	C.ROT (4.4) MR	promoted
33	KWS-8933	7630.23	8	4.18	111.67	73.06	70.17	C.ROT (3.6) MR	promoted
20	JH 273	7625.03	9	4.11	111.78	72.33	69.56	C.ROT (3.8) MR	promoted
11	ADV 7037	7584.58	10	3.56	113.28	74.72	71.67	C.ROT (5.2) MS	Not promoted
42	PM16206L	7549.01	11	3.07	108.89	69.56	67.00	C.ROT (4.0) MR	promoted
26	PM16207L	7491.39	12	2.29	109.56	69.33	66.67	C.ROT (5.9) MS	Not promoted
18	Rasi 2015	7485.16	13	2.20	109.89	69.83	67.11	C.ROT (4.5) MR	promoted
24	Rasi 1107	7474.76	14	2.06	109.67	70.22	67.39	C.ROT (5.1) MR	promoted
5	HT 16052	7438.65	15	1.57	111.78	73.17	69.56	C.ROT (4.6) MR	promoted

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37	Star-57	7351.86	16	0.38	109.06	69.78	67.28	C.ROT (5.3) MS	Not promoted
45	P3522 (C)	7323.98	17	0.00	111.11	71.06	68.44	C.ROT (3.6) MR	
	CD (5%)	1234.27							
	Cut off yield	6910.82							

List of Entries promoted from Rabi 2016-17 to Rabi 2017-2018**CWZ (Z5) Late maturity [NIVT Late (Tr.1) To AVT I Late (Tr.4)]**

E.N.	Hybrids Name	Yield (Kg/Hac)	Rank	%Sup	Days to 75% dry husk	Days to silking	Days to anthesis		Final Remark
26	PM16207L	10352.24	1	22.12	118.91	87.93	85.60		promoted
8	DAS-MH-903	10073.09	2	18.83	119.02	86.74	83.90		promoted
44	PM16205L	9989.33	3	17.84	117.25	84.55	81.55		promoted
36	VNR-32994	9979.31	4	17.72	120.00	89.03	86.53		promoted
19	DKC 9181(IR8494)	9658.13	5	13.93	120.84	87.08	84.59		promoted
42	PM16206L	9484.85	6	11.89	118.80	84.89	82.06		promoted
16	DAS-MH-904	9407.70	7	10.98	117.84	84.72	82.37		promoted
4	BLH 116	9349.36	8	10.29	121.14	87.82	84.67		promoted
6	BLH 113	9205.10	9	8.59	118.94	88.79	86.02		promoted
22	PM16202L	9111.35	10	7.48	119.19	86.84	83.83		promoted
34	HT 16047	8988.60	11	6.03	120.12	88.13	85.63		promoted
2	PM16201L	8971.66	12	5.83	122.55	91.84	89.00		promoted
29	MM2033	8877.34	13	4.72	122.44	92.01	89.59		promoted
25	PM16203L	8770.07	14	3.46	119.09	86.69	84.03		promoted
35	PM16204L	8595.67	15	1.40	121.37	87.01	84.52		promoted
18	Rasi 2015	8592.24	16	1.36	120.14	88.64	85.80		promoted
21	DKC 9188(IR8737)	8581.17	17	1.23	118.66	88.52	85.68		promoted
24	Rasi 1107	8556.92	18	0.94	121.94	87.35	84.86		promoted
45	P3522 (C)	8477.09	19	0.00	121.69	88.96	85.95		
	CD (5%)	3407.75							
	Cut off yield	6944.49							

List of Entries promoted from Rabi 2016-17 to Rabi 2017-2018**NWPZ (Z2) Medium maturity [NIVT Medium (Tr.2) To AVT I Medium (Tr.5)]**

E.N.	Hybrids Name	Yield (Kg/Hac)	Rank	%Sup	Days to 75% dry husk	Days to silking	Days to anthesis	C.ROT (1-9)	Final Remark
9	DKC8185(IR8332)	11523.39	1	4.18	142.67	108.67	106.33	C.ROT (6.4) MS	Not promoted
12	100 K-18	11352.81	2	2.64	141.17	107.67	105.33	C.ROT (6.7) MS	Not promoted
34	Bio 9544(C)	11060.90	3	0.00	140.17	105.44	102.89	C.ROT (6.1) MS	
							2.00		
	Consideration anthesis						104.89		
	CD (5%)	2231.13							
	Cut off yield	9292.26							

List of Entries promoted from Rabi 2016-17 to Rabi 2017-2018**NEPZ (Z3) Medium maturity [NIVT Medium (Tr.2) To AVT I Medium (Tr.5)]**

E.N.	Hybrids Name	Yield (Kg/Hac)	Rank	%Sup	Days to 75% dry	Days to silking	Days to anthesis	TLB (1-9)	Final Remark
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					husk				
9	DKC8185(IR8332)	9670.35	1	16.59	135.33	102.12	99.26	TLB (6.5) MS	Not promoted
26	IMHBG16R-6	8375.08	2	0.97	134.22	99.04	95.81	TLB (4.0) MR	promoted
32	HM 10 (C)	8294.48	3	0.00	134.22	100.80	96.29	TLB (3.0) R	
							2.00		
	Consideration anthesis						98.29		
	CD (5%)	1501.96							
	Cut off yield	8168.39							

List of Entries promoted from Rabi 2016-17 to Rabi 2017-2018

PZ (Z4) Medium maturity [NIVT Medium (Tr.2) To AVT I Medium (Tr.5)]

E.N.	Hybrids Name	Yield (Kg/Hac)	Rank	%Sup	Days to 75% dry husk	Days to silking	Days to anthesis	C.ROT (1-9)	Final Remark
12	100 K-18	8179.08	1	2.80	108.07	70.56	67.78	C.ROT (4.7) MR	promoted
9	DKC8185(IR8332)	8105.32	2	1.88	108.53	71.06	68.50	C.ROT (3.7) MR	promoted
3	100K-16	8041.14	3	1.07	107.00	68.39	65.89	C.ROT (4.6) MR	promoted
6	CP.898	8015.94	4	0.75	106.53	68.28	65.61	C.ROT (6.0) MS	Not promoted
34	Bio 9544(C)	7955.92	5	0.00	107.13	69.06	66.50	C.ROT (5.1) MR	
							2.00		
	Consideration anthesis						68.50		
	CD (5%)	1147.38							
	Cut off yield	7031.7							

List of Entries promoted from Rabi 2016-17 to Rabi 2017-2018

CWZ (Z5) Medium maturity [NIVT Medium (Tr.2) To AVT I Medium (Tr.5)]

E.N.	Hybrids Name	Yield (Kg/Hac)	Rank	%Sup	Days to 75% dry husk	Days to silking	Days to anthesis		Final Remark
12	100 K-18	9994.50	1	27.32	109.50	82.83	80.67		Not promoted
7	VaMH 12013	8796.12	2	12.06	108.50	78.67	76.67		promoted
27	HKH 358	8490.86	3	8.17	108.67	82.83	80.50		Not promoted
14	VEH-16-1	8230.47	4	4.85	107.67	83.83	81.33		Not promoted
29	REH-2014-3	8131.82	5	3.59	109.50	81.00	77.83		promoted
26	IMHBG16R-6	8127.83	6	3.54	111.67	83.33	81.33		Not promoted
9	DKC8185(IR8332)	8083.20	7	2.97	108.33	83.67	81.83		Not promoted
35	Bio 9637 (C)	7849.76	8	0.00	107.33	80.00	77.50		
							2.00		
	Consideration anthesis						79.50		
	CD (5%)	2622.06							
	Cut off yield	7372.44							

AVTI TO AVTII

List of Entries promoted from Rabi 2016-17 to Rabi 2017-2018

NWPZ (Z2) Late maturity [AVTI Late (Tr.4) To AVT II Late (Tr.7)] (No entries were promoted)

E.N.	Hybrids Name	Yield (Kg/Hac)	Rank	%Sup	Days to 75% dry husk	Days to silking	Days to anthesis	C.ROT (1-9)	Final Remark
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BR-5

12	Bio 9681 (C)	9830.25	5	0.00	144.00	107.67	104.78		
List of Entries promoted from Rabi 2016-17 to Rabi 2017-2018									
NEPZ (Z3) Late maturity [AVTI Late (Tr.4) To AVT II Late (Tr.7)](No entries were promoted)									
E.N.	Hybrids Name	Yield (Kg/Hac)	Rank	%Sup	Days to 75% dry husk	Days to silking	Days to anthesis	TLB (1-5)	Final Remark
12	Bio 9681 (C)	9454.43	3	0.00	138.29	102.58	99.37		
PZ (Z4) Late maturity [AVTI Late (Tr.4) To AVT II Late (Tr.7)] (No entries were promoted)									
E.N.	Hybrids Name	Yield (Kg/Hac)	Rank	%Sup	Days to 75% dry husk	Days to silking	Days to anthesis	C.ROT (1-9)	Final Remark
9	P3522 (C)	7903.06	4	0.00	111.71	72.95	72.95		
List of Entries promoted from Rabi 2016-17 to Rabi 2017-2018									
CWZ (Z5) Late maturity [AVTI Late (Tr.4) To AVT II Late (Tr.7)](No entries were promoted)									
E.N.	Hybrids Name	Yield (Kg/Hac)	Rank	%Sup	Days to 75% dry husk	Days to silking	Days to anthesis		Final Remark
12	Bio 9981 (C)	10854.68	3	0.00	130.67	95.49	93.25		
List of Entries promoted from Rabi 2016-17 to Rabi 2017-2018									
NWPZ (Z2) Medium maturity [AVTI Medium (Tr.5) To AVT II Medium (Tr.8)]									
E.N.	Hybrids Name	Yield (Kg/Hac)	Rank	%Sup	Days to 75% dry husk	Days to silking	Days to anthesis	C.ROT (1-9)	Final Remark
2	DKC8171(IP8204)	12286.44	1	10.71	146.17	107.78	104.78	C.ROT (4.5) MR	promoted
6	Bio 9544(C)	11097.65	3	0.00	143.83	105.44	102.89		
	Consideration anthesis						2		
							104.89		
List of Entries promoted from Rabi 2016-17 to Rabi 2017-2018									
NEPZ (Z3) Medium maturity [AVTI Medium (Tr.5) To AVT II Medium (Tr.8)]									
E.N.	Hybrids Name	Yield (Kg/Hac)	Rank	%Sup	Days to 75% dry husk	Days to silking	Days to anthesis	TLB (1-5)	Final Remark
3	BLH 109	10868.33	1	13.19	137.10	101.52	98.24	TLB (2.0) R	promoted
2	DKC8171(IP8204)	10746.28	2	11.92	136.00	100.90	97.00	TLB (3.5) MS	Not promoted
6	Bio 9544(C)	9601.97	3	0.00	135.05	99.90	97.10		
	Consideration anthesis						2.00		
							99.10		
List of Entries promoted from Rabi 2016-17 to Rabi 2017-2018									
PZ (Z4) Medium maturity [AVTI Medium (Tr.5) To AVT II Medium (Tr.8)](No entries were promoted)									
E.N.	Hybrids Name	Yield (Kg/Hac)	Rank	%Sup	Days to 75% dry husk	Days to silking	Days to anthesis		Final Remark
6	Bio 9544(C)	8592.46	1	0.00	107.90	69.19	66.33		
List of Entries promoted from Rabi 2016-17 to Rabi 2017-2018									
CWZ (Z5) Medium maturity [AVTI Medium (Tr.5) To AVT II Medium (Tr.8)](No entries were promoted)									

BR-6

E.N.	Hybrids Name	Yield (Kg/Hac)	Rank	%Sup	Days to 75% dry husk	Days to silking	Days to anthesis		Final Remark
6	Bio 9544(C)	9751.60	6.00	0.00	123.50	88.00	85.50		
	QPM I-II To QPM II-III								
NWPZ (Z2)- (Tr.QPM I to Tr. QPM II) (No entries were promoted)									
S.N.	Hybrids Name	Yield (kg/ha)	Rank	%SUP	Days to 75% dry husk	Days to silking	Days to anthesis		Final Remark
5	HQPM 1(C)	8515.15	1	0.00	145.00	110.11	107.67		
NEPZ (Z3)- (Tr.QPM I to Tr. QPM II) (No entries were promoted)									
S.N.	Hybrids Name	Yield (kg/ha)	Rank	%SUP	Days to 75% dry husk	Days to silking	Days to anthesis		Final Remark
7	HQPM 7 (C)	10605.64	1.00	0.00	138.00	101.33	98.05		
PZ (Z4)- (Tr.QPM II to Tr. QPM III) (No entries were promoted)									
S.N.	Hybrids Name	Yield (kg/ha)	Rank	%SUP	Days to 75% dry husk	Days to silking	Days to anthesis	C.ROT (1-9)	Final Remark
5	HQPM 1(C)	7505.44	2	0.00	111.62	72.52	69.86		
CWZ (Z5)- (Tr.QPM I to Tr. QPM II) (No entries were promoted)									
S.N.	Hybrids Name	Yield (kg/ha)	Rank	%SUP	Days to 75% dry husk	Days to silking	Days to anthesis		Final Remark
7	HQPM 7 (C)	8765.74	1.00	0.00	128.83	89.83	86.83		

TABLE No. 1: PERFORMANCE OF EXPERIMENTAL HYBRIDS/SINGLE CROSSES/TOP CROSSES & COMPOSITES AT KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, BHUBANESHWAR, DHOLI, KALYANI, RANCHI, SABOUR, VARANASI, COIMBATORE, DHARWAD, KARIMNAGAR, KOLHAPUR, RAHURI, VAGARAI, BANSWARA, GODHRA IN TRIAL No. TR1 DURING RABI (2016-17)

Sl	Entry Name	GRAIN YIELD (kg/ha) AT 15% MOISTURE																							
		2								3															
		Karnal		Ludhiana		Pantnagar		Zone		Bahraich		Bhubaneshwar		Dholi		Kalyani		Ranchi		Sabour		Varanasi		Zone	
Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank
1	JH 248	8741	43	6956	41	11911	30	9203	41	5124	36	6846	34	11447	5	10906	24	10922	41	1771	2	8355	37	8943	31
2	PM16201L	10194	14	9621	7	11718	33	10511	21	10378	1	7766	8	8573	23	9302	38	12225	32	1295	21	11215	6	9917	11
3	JH 295	10163	15	6029	43	11624	36	9272	40	6034	27	8095	3	8159	33	9382	37	12240	31	1091	34	8070	38	8660	34
4	BLH 116	11361	1	10117	4	12646	17	11375	2	5640	30	7163	20	9870	8	9614	34	14773	4	1193	30	10164	18	9521	19
5	HT 16052	10464	9	8463	24	14007	7	10978	7	7354	18	7510	11	8472	24	11641	9	13687	16	1567	6	9422	27	9674	15
6	BLH 113	9952	24	8600	22	12583	19	10378	23	5073	37	6957	31	7853	36	13039	3	13851	14	756	48	9642	22	9392	22
7	ADV 7139	9452	32	9193	11	10430	41	9691	35	6525	23	6557	40	7454	43	10323	28	11420	38	1505	9	9309	29	8601	38
8	DAS-MH-903	9406	35	10196	3	14262	6	11288	4	7957	8	7010	25	8402	27	11021	20	14031	13	863	44	9387	28	9625	16
9	Super 3366	9831	26	7365	38	14532	3	10576	17	7837	10	6979	28	7998	34	12928	4	14461	6	1688	3	10437	14	10097	8
10	CMH 2829	11211	2	8437	25	12075	26	10574	18	7637	13	7065	21	11795	4	9397	35	14177	9	1623	5	10694	12	10121	7
11	ADV 7037	11031	4	9499	8	12622	18	11051	6	5308	35	7198	19	12177	3	9389	36	12618	28	1278	25	10958	9	9609	17
12	IH-1304	8030	46	5428	45	7052	46	6837	46	4197	44	6364	42	6914	46	8488	43	8582	45	1415	14	6403	45	6836	45
13	KWS-8915	10352	12	6376	42	11918	29	9549	38	7628	14	6807	36	7573	41	11455	12	14075	10	959	42	4443	48	8645	36
14	KH-2124	9959	23	9315	10	11796	31	10357	24	5407	34	6488	41	9390	13	8815	41	12290	30	1341	19	9298	30	8610	37
15	JH 412	9992	21	7753	33	12039	27	9928	29	4632	43	6888	32	8958	20	8075	44	11186	39	1657	4	6831	43	7759	44
16	DAS-MH-904	10686	7	7400	36	11450	39	9845	33	7807	11	6560	39	7908	35	11197	16	12981	24	1049	38	10497	13	9489	20
17	GK3209	10067	20	8989	13	13501	12	10853	10	6236	25	7053	22	7756	39	10292	29	13723	15	1016	41	11025	8	9338	25
18	Rasi 2015	9323	36	8055	30	12698	16	10025	28	7052	19	6980	27	9157	16	10375	27	13680	17	1118	32	9084	31	9379	23
19	DKC 9181(IR8494)	9230	37	9369	9	11623	37	10074	27	6934	21	7805	7	12616	2	10992	21	13270	20	1268	26	9831	20	10243	4
20	JH 273	9115	38	7960	31	11628	35	9568	36	7896	9	7200	18	9588	9	9615	33	12147	33	1295	22	7546	41	8999	29
21	DKC 9188(IR8737)	9822	27	8311	27	13881	8	10671	13	6749	22	7452	14	10108	7	12225	7	13375	18	1525	7	9736	21	9939	10
22	PM16202L	8872	41	10283	2	13355	13	10836	11	7042	20	5849	44	8448	25	11108	18	14049	12	952	43	9523	24	9324	26
23	IH-031	6060	48	4172	48	5594	48	5275	48	3691	46	4751	47	11278	6	7416	47	6480	47	2168	1	6672	44	6742	46
24	Rasi 1107	9436	33	8981	15	13595	10	10671	14	8341	6	5945	43	8215	30	7805	45	12793	26	1045	39	8986	32	8673	33
25	PM16203L	11134	3	8720	20	12117	25	10657	15	9471	3	6847	33	8195	31	11349	13	16304	2	1252	27	12531	1	10764	1
26	PM16207L	10486	8	8871	18	11558	38	10305	25	5512	32	7001	26	7801	38	11130	17	14055	11	1431	13	9527	23	9157	27
27	KH-1226	10106	17	7062	40	12353	21	9840	34	3845	45	7487	13	8420	26	11291	14	11536	35	816	45	8477	36	8511	40
28	Star-47	9657	30	9687	6	12137	24	10494	22	5638	31	7041	23	9470	10	6676	48	11436	37	1389	16	11608	3	8648	35
29	MM2033	8881	40	7727	34	14300	5	10303	26	8045	7	8093	4	9212	15	10075	31	14510	5	759	47	11528	4	10235	5
30	JH 358	10076	19	8631	21	12868	14	10525	19	8430	5	6961	29	8667	21	10155	30	10969	40	1120	31	8828	33	9011	28

TABLE No. 1: PERFORMANCE OF EXPERIMENTAL HYBRIDS/SINGLE CROSSES/TOP CROSSES & COMPOSITES AT KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, BHUBANESHWAR, DHOLI, KALYANI, RANCHI, SABOUR, VARANASI, COIMBATORE, DHARWAD, KARIMNAGAR, KOLHAPUR, RAHURI, VAGARAI, BANSWARA, GODHRA IN TRIAL No. TR1 DURING RABI (2016-17)

Sl	Entry Name	GRAIN YIELD (kg/ha) AT 15% MOISTURE																							
		2												3											
		Karnal		Ludhiana		Pantnagar		Zone		Bahraich		Bhubaneshwar		Dholi		Kalyani		Ranchi		Sabour		Varanasi		Zone	
Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank		
31	IH-0712	9690	28	4283	47	6309	47	6761	47	3261	48	4682	48	7116	45	7747	46	6901	46	1087	35	7020	42	6141	48
32	CMH 2725	9589	31	8436	26	11690	34	9905	31	7571	15	8026	5	9392	12	10927	23	12874	25	1058	37	8595	35	9563	18
33	KWS-8933	9427	34	7192	39	10100	43	8906	42	3480	47	7489	12	8272	29	10936	22	11495	36	1115	33	6132	46	7964	43
34	HT 16047	9686	29	9016	12	15361	2	11355	3	5984	28	7577	9	7833	37	11917	8	17003	1	1446	12	11416	5	10286	2
35	PM16204L	10098	18	10707	1	17173	1	12659	1	7504	16	5442	45	9230	14	12799	5	10906	42	1291	23	12106	2	9680	14
36	VNR-32994	10370	11	8561	23	13806	9	10912	8	9635	2	7218	17	8291	28	11619	10	13279	19	1312	20	9427	26	9910	12
37	Star-57	10205	13	8183	29	10303	42	9564	37	5466	33	7038	24	7364	44	10713	25	13121	21	1045	40	10011	19	8944	30
38	BIO 305	11003	5	8306	28	14360	4	11223	5	7657	12	8225	1	12783	1	10424	26	13078	22	1228	28	9520	25	10284	3
39	REH-2014-6	9003	39	5602	44	8070	45	7558	45	4696	42	6584	38	6525	48	11049	19	10251	44	1289	24	10921	10	8348	41
40	IH-0330	7429	47	4730	46	10638	40	7599	44	4775	40	4890	46	9438	11	8577	42	6403	48	1077	36	4869	47	6518	47
41	JH 409	8834	42	7386	37	9759	44	8660	43	5064	39	7879	6	7465	42	8923	40	12122	34	1203	29	7569	39	8164	42
42	PM16206L	10922	6	8977	16	12173	23	10691	12	5068	38	7307	16	8995	18	11495	11	12411	29	1362	17	10881	11	9360	24
43	GK3208	8292	44	7898	32	11744	32	9311	39	9124	4	7423	15	6745	47	11254	15	12753	27	1345	18	11125	7	9738	13
44	PM16205L	10415	10	8988	14	12546	20	10650	16	6049	26	6708	37	8175	32	14340	1	15545	3	795	46	10208	17	10153	6
45	P3522 (C)	8074	45	9729	5	11926	28	9909	30	4715	41	6840	35	8970	19	9902	32	14220	7	1509	8	8675	34	8869	32
46	Seedtech 2324 (C)	10156	16	8906	17	13531	11	10864	9	6386	24	6960	30	9009	17	13276	2	10492	43	1494	10	10390	16	9436	21
47	Buland (C)	9977	22	7550	35	12180	22	9902	32	5838	29	7576	10	8591	22	8974	39	12993	23	1492	11	7550	40	8577	39
48	Bio 9981 (C)	9877	25	8826	19	12861	15	10521	20	7418	17	8156	2	7692	40	12519	6	14216	8	1402	15	10435	15	10065	9
	General Mean	9711	.	8142	.	12050	.	9968	.	6440	.	6974	.	8828	.	10476	.	12586	.	1266	.	9310	.	9093	.
	CV(%)	11	.	13	.	8	.	10	.	9	.	5	.	3	.	12	.	10	.	26	.	7	.	9	.
	P-Value	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.
	CD (5%)	1698	.	1716	.	1518	.	1835	.	951	.	511	.	403	.	2088	.	2487	.	525	.	1006	.	1615	.
	Plot Size	6		5.28		6				4.8		4.8		4		6		5.6		4.8		4.8			
	AGRONOMY DATA																								
	Sowing Date	29-11		2-2-17		20-12-16				3-12-16		8-12-16		2-12-16		6-12-16		3-2-17		9-12-16		3-12-16			
	Harvest Date	26-05		15-6-17		08.06.2017				13-5-17		28-4-17		10-5-17		NA		17-6-17		31-5-17		3-5-17			
	Irrigation Nos	9		15		6				5		NA		2		5		NA		6		NA			
	Fertilizer Applied N	180		50		120				150		120		150		150		140		130		150			
	Fertilizer Applied P	60		24		60				75		60		70		75		60		75		75			
	Fertilizer Applied K	60		12		40				60		60		60		75		40		50		60			

TABLE No. 1: (Contd.)

Sl	Entry Name	GRAIN YIELD (kg/ha) AT 15% MOISTURE																						
		4														5						All India		
		Coimbatore		Dharwad		Karimnagar		Kolhapur		Rahuri		Vagarai		Zone		Banswara		Godhra		Zone		Mean	Rank	
Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	
1	JH 248	8940	31	3176	47	6870	18	5396	37	4894	39	7114	39	6065	39	8854	44	4153	27	6453	43	7684	39	
2	PM16201L	9791	21	6150	29	7952	9	6545	19	4595	44	8538	13	7262	20	12296	21	5674	6	8972	12	8973	13	
3	JH 295	8238	39	3613	46	2103	48	5097	41	5663	25	7618	28	5389	43	9465	42	5085	12	7218	37	7441	41	
4	BLH 116	11067	7	6844	19	8182	5	7615	4	5756	18	8688	11	8026	3	14631	4	3936	31	9349	8	9298	2	
5	HT 16052	10716	11	6248	26	6508	24	6415	20	5889	16	8856	5	7439	15	12871	12	3669	35	8307	20	8955	15	
6	BLH 113	10529	12	5462	38	7848	11	7376	7	4359	45	7983	23	7260	21	12819	14	5594	7	9205	9	8787	21	
7	ADV 7139	12434	2	6742	21	6776	19	7141	11	4632	42	9782	2	7918	4	10148	39	6433	2	8221	21	8511	29	
8	DAS-MH-903	7968	42	8443	3	8706	3	5713	32	4951	35	7616	29	7233	23	14304	6	5796	5	10073	2	9121	6	
9	Super 3366	13025	1	5516	37	4614	40	4954	42	5992	14	7139	37	6873	33	12884	11	3307	39	8140	24	8811	19	
10	CMH 2829	12017	3	7010	17	3258	47	6831	16	5172	33	6944	41	6872	34	12338	18	3722	33	8055	27	8810	20	
11	ADV 7037	10744	10	7792	9	6621	22	5808	31	5707	23	8835	7	7585	10	10015	40	3741	32	6858	40	8834	18	
12	IH-1304	8651	33	4324	43	3842	43	4318	47	5330	29	5721	47	5364	44	9482	41	4341	24	6869	39	6321	45	
13	KWS-8915	10466	13	5936	31	4695	39	4272	48	4699	41	8653	12	6452	38	11935	23	3228	40	7609	32	7906	38	
14	KH-2124	8995	29	5930	32	7415	12	5325	39	6050	12	8848	6	7094	24	11173	34	3976	29	7572	33	8264	34	
15	JH 412	8447	35	3664	45	6162	28	5606	35	4948	36	7157	35	5997	40	11374	29	4847	18	8095	26	7558	40	
16	DAS-MH-904	10234	14	8420	4	8116	6	7396	6	6832	3	7513	31	8085	2	12596	16	6257	3	9408	7	9045	11	
17	GK3209	7884	44	7274	14	6111	29	6328	22	5743	19	8751	9	7015	28	11329	32	5131	11	8208	22	8652	24	
18	Rasi 2015	10010	16	7802	8	5323	36	8505	1	5938	15	7333	32	7485	13	12853	13	4283	26	8592	16	8730	23	
19	DKC 9181(IR8494)	9854	20	8467	2	5695	35	6713	17	5534	28	7631	27	7316	18	15576	3	3558	36	9658	5	9107	7	
20	JH 273	9411	22	5874	33	8648	4	6982	14	6454	5	8382	16	7625	9	10872	35	5514	8	8155	23	8517	27	
21	DKC 9188(IR8737)	9068	27	7269	15	9232	1	6040	27	6873	2	8406	15	7814	5	12326	19	4829	19	8581	17	9160	4	
22	PM16202L	9332	23	7291	13	7989	8	7776	3	6476	4	10007	1	8145	1	13401	9	4771	20	9111	10	9149	5	
23	IH-031	6748	46	4935	39	3875	42	4504	45	5115	34	6535	42	5285	46	7705	46	3712	34	5644	46	5845	48	
24	Rasi 1107	8016	41	7775	10	8001	7	8169	2	5693	24	7195	33	7475	14	10751	37	6481	1	8557	18	8589	26	
25	PM16203L	11347	5	8998	1	5817	34	5654	34	4928	37	9501	3	7707	6	12666	15	4854	17	8770	14	9427	1	
26	PM16207L	10821	9	6314	25	7857	10	7506	5	4912	38	7538	30	7491	12	16214	2	4312	25	10352	1	8905	16	
27	KH-1226	8949	30	4729	40	6992	16	5392	38	5741	20	8730	10	6756	36	10776	36	4949	14	7833	31	8048	36	
28	Star-47	9239	25	6718	22	7233	13	6013	28	5291	32	7879	24	7062	25	11348	31	4963	13	8137	25	8357	32	
29	MM2033	7967	43	5538	36	6929	17	6096	25	6316	7	8368	17	6869	35	12383	17	5384	9	8877	13	8894	17	
30	JH 358	10008	17	6873	18	5826	33	5250	40	5577	27	7825	26	6893	32	11719	27	3947	30	7842	30	8398	31	

TABLE No. 1: (Contd.)

Sl	Entry Name	GRAIN YIELD (kg/ha) AT 15% MOISTURE																					
		4										5						All India					
		Coimbatore		Dharwad		Karimnagar		Kolhapur		Rahuri		Vagarai		Zone		Banswara		Godhra		Zone		All India	
Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank		
31	IH-0712	6526	47	5644	35	3527	45	4877	43	4706	40	6395	44	5279	47	7989	45	4699	21	6266	44	5965	47
32	CMH 2725	8863	32	6173	28	7062	15	5967	29	7267	1	8066	21	7233	22	11367	30	4562	23	7955	28	8613	25
33	KWS-8933	10121	15	7504	12	6643	21	6572	18	5859	17	9083	4	7630	8	11840	24	4023	28	7941	29	8012	37
34	HT 16047	9262	24	8271	5	4147	41	6358	21	6004	13	8219	19	7043	27	13012	10	4935	15	8989	11	9177	3
35	PM16204L	8487	34	6146	30	6767	20	7054	12	5741	21	7193	34	6898	31	12301	20	4886	16	8596	15	9102	8
36	VNR-32994	8359	37	6232	27	6245	27	5712	33	6226	9	8775	8	6925	29	13726	8	6225	4	9979	4	9035	12
37	Star-57	10004	18	6349	24	7155	14	6040	26	6052	10	8511	14	7352	16	11786	25	3164	41	7500	34	8323	33
38	BIO 305	9896	19	7048	16	5918	31	7324	10	5301	31	8252	18	7290	19	11737	26	2801	44	7301	35	9048	10
39	REH-2014-6	7263	45	4474	41	4725	38	4660	44	5311	30	7124	38	5593	42	10299	38	2879	43	6591	41	7030	44
40	IH-0330	6405	48	4389	42	3333	46	5410	36	5593	26	5694	48	5138	48	6186	48	4650	22	5306	47	6088	46
41	JH 409	9031	28	2734	48	5304	37	4376	46	6051	11	6480	43	5663	41	11380	28	2750	45	7091	38	7240	43
42	PM16206L	11012	8	7860	7	5854	32	7005	13	6408	6	7155	36	7549	11	13731	7	5191	10	9485	6	8969	14
43	GK3208	12011	4	7590	11	6054	30	6099	24	6302	8	7860	25	7653	7	9061	43	3328	38	6164	45	8514	28
44	PM16205L	8431	36	6757	20	9027	2	7345	9	3949	47	6020	45	6921	30	16268	1	3499	37	9989	3	9071	9
45	P3522 (C)	11114	6	7950	6	6365	25	6972	15	3506	48	8038	22	7324	17	14362	5	2412	46	8477	19	8458	30
46	Seedtech 2324 (C)	8273	38	6631	23	6534	23	6154	23	4608	43	7026	40	6538	37	7178	47	3073	42	5063	48	8165	35
47	Buland (C)	8211	40	3953	44	3818	44	5891	30	4129	46	5828	46	5305	45	11237	33	1703	48	6513	42	7413	42
48	Bio 9981 (C)	9086	26	5767	34	6295	26	7368	8	5720	22	8134	20	7062	26	12153	22	2340	47	7295	36	8761	22
	General Mean	9443	.	6305	.	6249	.	6207	.	5516	.	7811	.	6922	.	11723	.	4324	.	8026	.	8356	.
	CV(%)	10	.	18	.	17	.	8	.	16	.	8	.	13	.	11	.	16	.	14	.	11	.
	P-Value	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.
	CD (5%)	1513	.	1811	.	1738	.	826	.	1463	.	1034	.	1234	.	2155	.	1410	.	3408	.	864	.
	Plot Size	4.8		4.8		6		6		6		4.8		4.8		4.8		4.8		3408		864	
	AGRONOMY DATA																						
	Sowing Date	6-1-17		5-12-16		6-12-16		17-12-16		16-12-16		10-1-17				30-11-16		12-7-16					
	Harvest Date	5-5-17		25-4-17		18-4-17		10-5-17		2-5-17		5-5-17				9-5-17		22-4-17					
	Irrigation Nos	12		8		13		NA		7		12				6		7					
	Fertilizer Applied N	250		150		240		NA		120		250				200		120					
	Fertilizer Applied P	75		65		60		NA		60		75				80		60					
	Fertilizer Applied K	75		65		60		NA		40		75				0		0					

TABLE No. 1 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER P3522											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
1	JH 248	8.3	-28.5	-0.1	-7.1	8.7	0.1	27.6	10.2	-23.2	17.4	-3.7	0.8
2	PM16201L	26.3	-1.1	-1.7	6.1	120.1	13.6	-4.4	-6.1	-14.0	-14.1	29.3	11.8
3	JH 295	25.9	-38.0	-2.5	-6.4	28.0	18.4	-9.0	-5.3	-13.9	-27.7	-7.0	-2.4
4	BLH 116	40.7	4.0	6.0	14.8	19.6	4.7	10.0	-2.9	3.9	-20.9	17.2	7.3
5	HT 16052	29.6	-13.0	17.5	10.8	56.0	9.8	-5.6	17.6	-3.8	3.9	8.6	9.1
6	BLH 113	23.3	-11.6	5.5	4.7	7.6	1.7	-12.5	31.7	-2.6	-49.9	11.2	5.9
7	ADV 7139	17.1	-5.5	-12.5	-2.2	38.4	-4.1	-16.9	4.3	-19.7	-0.2	7.3	-3.0
8	DAS-MH-903	16.5	4.8	19.6	13.9	68.8	2.5	-6.3	11.3	-1.3	-42.8	8.2	8.5
9	Super 3366	21.8	-24.3	21.9	6.7	66.2	2.0	-10.8	30.6	1.7	11.9	20.3	13.8
10	CMH 2829	38.9	-13.3	1.3	6.7	62.0	3.3	31.5	-5.1	-0.3	7.6	23.3	14.1
11	ADV 7037	36.6	-2.4	5.8	11.5	12.6	5.2	35.8	-5.2	-11.3	-15.3	26.3	8.3
12	IH-1304	-0.5	-44.2	-40.9	-31.0	-11.0	-7.0	-22.9	-14.3	-39.7	-6.2	-26.2	-22.9
13	KWS-8915	28.2	-34.5	-0.1	-3.6	61.8	-0.5	-15.6	15.7	-1.0	-36.4	-48.8	-2.5
14	KH-2124	23.4	-4.3	-1.1	4.5	14.7	-5.2	4.7	-11.0	-13.6	-11.1	7.2	-2.9
15	JH 412	23.8	-20.3	1.0	0.2	-1.8	0.7	-0.1	-18.4	-21.3	9.8	-21.3	-12.5
16	DAS-MH-904	32.4	-23.9	-4.0	-0.7	65.6	-4.1	-11.8	13.1	-8.7	-30.5	21.0	7.0
17	GK3209	24.7	-7.6	13.2	9.5	32.3	3.1	-13.5	3.9	-3.5	-32.7	27.1	5.3
18	Rasi 2015	15.5	-17.2	6.5	1.2	49.6	2.1	2.1	4.8	-3.8	-25.9	4.7	5.8
19	DKC 9181(IR8494)	14.3	-3.7	-2.5	1.7	47.1	14.1	40.7	11.0	-6.7	-16.0	13.3	15.5
20	JH 273	12.9	-18.2	-2.5	-3.5	67.5	5.3	6.9	-2.9	-14.6	-14.2	-13.0	1.5
21	DKC 9188(IR8737)	21.7	-14.6	16.4	7.7	43.2	9.0	12.7	23.5	-5.9	1.1	12.2	12.1
22	PM16202L	9.9	5.7	12.0	9.4	49.4	-14.5	-5.8	12.2	-1.2	-36.9	9.8	5.1
23	IH-031	-24.9	-57.1	-53.1	-46.8	-21.7	-30.5	25.7	-25.1	-54.4	43.7	-23.1	-24.0
24	Rasi 1107	16.9	-7.7	14.0	7.7	76.9	-13.1	-8.4	-21.2	-10.0	-30.7	3.6	-2.2
25	PM16203L	37.9	-10.4	1.6	7.5	100.9	0.1	-8.6	14.6	14.7	-17.0	44.5	21.4
26	PM16207L	29.9	-8.8	-3.1	4.0	16.9	2.4	-13.0	12.4	-1.2	-5.2	9.8	3.2
27	KH-1226	25.2	-27.4	3.6	-0.7	-18.4	9.5	-6.1	14.0	-18.9	-45.9	-2.3	-4.0
28	Star-47	19.6	-0.4	1.8	5.9	19.6	3.0	5.6	-32.6	-19.6	-7.9	33.8	-2.5
29	MM2033	10.0	-20.6	19.9	4.0	70.6	18.3	2.7	1.8	2.0	-49.7	32.9	15.4
30	JH 358	24.8	-11.3	7.9	6.2	78.8	1.8	-3.4	2.6	-22.9	-25.8	1.8	1.6

TABLE No. 1 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER P3522											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
31	IH-0712	20.0	-56.0	-47.1	-31.8	-30.8	-31.5	-20.7	-21.8	-51.5	-28.0	-19.1	-30.8
32	CMH 2725	18.8	-13.3	-2.0	-0.1	60.6	17.3	4.7	10.4	-9.5	-29.9	-0.9	7.8
33	KWS-8933	16.8	-26.1	-15.3	-10.1	-26.2	9.5	-7.8	10.5	-19.2	-26.1	-29.3	-10.2
34	HT 16047	20.0	-7.3	28.8	14.6	26.9	10.8	-12.7	20.4	19.6	-4.1	31.6	16.0
35	PM16204L	25.1	10.1	44.0	27.8	59.2	-20.4	2.9	29.3	-23.3	-14.4	39.5	9.1
36	VNR-32994	28.4	-12.0	15.8	10.1	104.4	5.5	-7.6	17.4	-6.6	-13.0	8.7	11.7
37	Star-57	26.4	-15.9	-13.6	-3.5	15.9	2.9	-17.9	8.2	-7.7	-30.8	15.4	0.8
38	BIO 305	36.3	-14.6	20.4	13.3	62.4	20.3	42.5	5.3	-8.0	-18.6	9.7	16.0
39	REH-2014-6	11.5	-42.4	-32.3	-23.7	-0.4	-3.7	-27.3	11.6	-27.9	-14.5	25.9	-5.9
40	IH-0330	-8.0	-51.4	-10.8	-23.3	1.3	-28.5	5.2	-13.4	-55.0	-28.6	-43.9	-26.5
41	JH 409	9.4	-24.1	-18.2	-12.6	7.4	15.2	-16.8	-9.9	-14.8	-20.2	-12.8	-8.0
42	PM16206L	35.3	-7.7	2.1	7.9	7.5	6.8	0.3	16.1	-12.7	-9.8	25.4	5.5
43	GK3208	2.7	-18.8	-1.5	-6.0	93.5	8.5	-24.8	13.7	-10.3	-10.9	28.2	9.8
44	PM16205L	29.0	-7.6	5.2	7.5	28.3	-1.9	-8.9	44.8	9.3	-47.3	17.7	14.5
45	P3522 (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	Seedtech 2324 (C)	25.8	-8.5	13.5	9.6	35.4	1.8	0.4	34.1	-26.2	-1.0	19.8	6.4
47	Buland (C)	23.6	-22.4	2.1	-0.1	23.8	10.8	-4.2	-9.4	-8.6	-1.1	-13.0	-3.3
48	Bio 9981 (C)	22.3	-9.3	7.8	6.2	57.3	19.3	-14.3	26.4	0.0	-7.1	20.3	13.5

TABLE No. 1 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER P3522										
		4							5			All India
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	
1	JH 248	-19.6	-60.1	7.9	-22.6	39.6	-11.5	-17.2	-38.4	72.2	-23.9	-9.2
2	PM16201L	-11.9	-22.6	24.9	-6.1	31.1	6.2	-0.9	-14.4	135.3	5.8	6.1
3	JH 295	-25.9	-54.6	-67.0	-26.9	61.5	-5.2	-26.4	-34.1	110.8	-14.9	-12.0
4	BLH 116	-0.4	-13.9	28.5	9.2	64.2	8.1	9.6	1.9	63.2	10.3	9.9
5	HT 16052	-3.6	-21.4	2.3	-8.0	68.0	10.2	1.6	-10.4	52.1	-2.0	5.9
6	BLH 113	-5.3	-31.3	23.3	5.8	24.4	-0.7	-0.9	-10.7	131.9	8.6	3.9
7	ADV 7139	11.9	-15.2	6.5	2.4	32.1	21.7	8.1	-29.3	166.7	-3.0	0.6
8	DAS-MH-903	-28.3	6.2	36.8	-18.1	41.2	-5.3	-1.2	-0.4	140.3	18.8	7.8
9	Super 3366	17.2	-30.6	-27.5	-28.9	70.9	-11.2	-6.2	-10.3	37.1	-4.0	4.2
10	CMH 2829	8.1	-11.8	-48.8	-2.0	47.5	-13.6	-6.2	-14.1	54.3	-5.0	4.2
11	ADV 7037	-3.3	-2.0	4.0	-16.7	62.8	9.9	3.6	-30.3	55.1	-19.1	4.4
12	IH-1304	-22.2	-45.6	-39.6	-38.1	52.1	-28.8	-26.8	-34.0	80.0	-19.0	-25.3
13	KWS-8915	-5.8	-25.3	-26.2	-38.7	34.1	7.7	-11.9	-16.9	33.8	-10.2	-6.5
14	KH-2124	-19.1	-25.4	16.5	-23.6	72.6	10.1	-3.1	-22.2	64.9	-10.7	-2.3
15	JH 412	-24.0	-53.9	-3.2	-19.6	41.1	-11.0	-18.1	-20.8	101.0	-4.5	-10.6
16	DAS-MH-904	-7.9	5.9	27.5	6.1	94.9	-6.5	10.4	-12.3	159.4	11.0	6.9
17	GK3209	-29.1	-8.5	-4.0	-9.2	63.8	8.9	-4.2	-21.1	112.7	-3.2	2.3
18	Rasi 2015	-9.9	-1.9	-16.4	22.0	69.4	-8.8	2.2	-10.5	77.6	1.4	3.2
19	DKC 9181(IR8494)	-11.3	6.5	-10.5	-3.7	57.9	-5.1	-0.1	8.5	47.5	13.9	7.7
20	JH 273	-15.3	-26.1	35.9	0.2	84.1	4.3	4.1	-24.3	128.6	-3.8	0.7
21	DKC 9188(IR8737)	-18.4	-8.6	45.0	-13.4	96.1	4.6	6.7	-14.2	100.2	1.2	8.3
22	PM16202L	-16.0	-8.3	25.5	11.5	84.7	24.5	11.2	-6.7	97.8	7.5	8.2
23	IH-031	-39.3	-37.9	-39.1	-35.4	45.9	-18.7	-27.8	-46.4	53.9	-33.4	-30.9
24	Rasi 1107	-27.9	-2.2	25.7	17.2	62.4	-10.5	2.1	-25.1	168.7	0.9	1.6
25	PM16203L	2.1	13.2	-8.6	-18.9	40.6	18.2	5.2	-11.8	101.3	3.5	11.5
26	PM16207L	-2.6	-20.6	23.4	7.7	40.1	-6.2	2.3	12.9	78.8	22.1	5.3
27	KH-1226	-19.5	-40.5	9.9	-22.7	63.8	8.6	-7.8	-25.0	105.2	-7.6	-4.9
28	Star-47	-16.9	-15.5	13.6	-13.8	50.9	-2.0	-3.6	-21.0	105.8	-4.0	-1.2
29	MM2033	-28.3	-30.3	8.9	-12.6	80.2	4.1	-6.2	-13.8	123.2	4.7	5.2
30	JH 358	-10.0	-13.5	-8.5	-24.7	59.1	-2.7	-5.9	-18.4	63.6	-7.5	-0.7

TABLE No. 1 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER P3522										
		4							5			All India
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	
31	IH-0712	-41.3	-29.0	-44.6	-30.0	34.3	-20.4	-27.9	-44.4	94.8	-26.1	-29.5
32	CMH 2725	-20.3	-22.4	11.0	-14.4	107.3	0.3	-1.2	-20.9	89.1	-6.2	1.8
33	KWS-8933	-8.9	-5.6	4.4	-5.7	67.1	13.0	4.2	-17.6	66.8	-6.3	-5.3
34	HT 16047	-16.7	4.1	-34.9	-8.8	71.3	2.3	-3.8	-9.4	104.6	6.0	8.5
35	PM16204L	-23.6	-22.7	6.3	1.2	63.8	-10.5	-5.8	-14.4	102.6	1.4	7.6
36	VNR-32994	-24.8	-21.6	-1.9	-18.1	77.6	9.2	-5.5	-4.4	158.1	17.7	6.8
37	Star-57	-10.0	-20.1	12.4	-13.4	72.6	5.9	0.4	-17.9	31.2	-11.5	-1.6
38	BIO 305	-11.0	-11.3	-7.0	5.1	51.2	2.7	-0.5	-18.3	16.1	-13.9	7.0
39	REH-2014-6	-34.7	-43.7	-25.8	-33.2	51.5	-11.4	-23.6	-28.3	19.4	-22.2	-16.9
40	IH-0330	-42.4	-44.8	-47.6	-22.4	59.5	-29.2	-29.9	-56.9	92.8	-37.4	-28.0
41	JH 409	-18.7	-65.6	-16.7	-37.2	72.6	-19.4	-22.7	-20.8	14.0	-16.4	-14.4
42	PM16206L	-0.9	-1.1	-8.0	0.5	82.8	-11.0	3.1	-4.4	115.2	11.9	6.0
43	GK3208	8.1	-4.5	-4.9	-12.5	79.8	-2.2	4.5	-36.9	38.0	-27.3	0.7
44	PM16205L	-24.1	-15.0	41.8	5.4	12.7	-25.1	-5.5	13.3	45.1	17.8	7.2
45	P3522 (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	Seedtech 2324 (C)	-25.6	-16.6	2.7	-11.7	31.4	-12.6	-10.7	-50.0	27.4	-40.3	-3.5
47	Buland (C)	-26.1	-50.3	-40.0	-15.5	17.8	-27.5	-27.6	-21.8	-29.4	-23.2	-12.4
48	Bio 9981 (C)	-18.3	-27.5	-1.1	5.7	63.2	1.2	-3.6	-15.4	-3.0	-13.9	3.6

TABLE No. 1 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Seedtech 2324											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
1	JH 248	-13.9	-21.9	-12.0	-15.3	-19.8	-1.6	27.1	-17.9	4.1	18.5	-19.6	-5.2
2	PM16201L	0.4	8.0	-13.4	-3.3	62.5	11.6	-4.8	-29.9	16.5	-13.3	7.9	5.1
3	JH 295	0.1	-32.3	-14.1	-14.7	-5.5	16.3	-9.4	-29.3	16.7	-27.0	-22.3	-8.2
4	BLH 116	11.9	13.6	-6.5	4.7	-11.7	2.9	9.6	-27.6	40.8	-20.1	-2.2	0.9
5	HT 16052	3.0	-5.0	3.5	1.1	15.2	7.9	-6.0	-12.3	30.5	4.9	-9.3	2.5
6	BLH 113	-2.0	-3.4	-7.0	-4.5	-20.6	-0.1	-12.8	-1.8	32.0	-49.4	-7.2	-0.5
7	ADV 7139	-6.9	3.2	-22.9	-10.8	2.2	-5.8	-17.3	-22.2	8.8	0.8	-10.4	-8.9
8	DAS-MH-903	-7.4	14.5	5.4	3.9	24.6	0.7	-6.7	-17.0	33.7	-42.3	-9.7	2.0
9	Super 3366	-3.2	-17.3	7.4	-2.7	22.7	0.3	-11.2	-2.6	37.8	13.0	0.4	7.0
10	CMH 2829	10.4	-5.3	-10.8	-2.7	19.6	1.5	30.9	-29.2	35.1	8.6	2.9	7.3
11	ADV 7037	8.6	6.7	-6.7	1.7	-16.9	3.4	35.2	-29.3	20.3	-14.5	5.5	1.8
12	IH-1304	-20.9	-39.1	-47.9	-37.1	-34.3	-8.6	-23.3	-36.1	-18.2	-5.3	-38.4	-27.6
13	KWS-8915	1.9	-28.4	-11.9	-12.1	19.5	-2.2	-15.9	-13.7	34.2	-35.8	-57.2	-8.4
14	KH-2124	-1.9	4.6	-12.8	-4.7	-15.3	-6.8	4.2	-33.6	17.1	-10.2	-10.5	-8.8
15	JH 412	-1.6	-12.9	-11.0	-8.6	-27.5	-1.1	-0.6	-39.2	6.6	10.9	-34.3	-17.8
16	DAS-MH-904	5.2	-16.9	-15.4	-9.4	22.3	-5.8	-12.2	-15.7	23.7	-29.8	1.0	0.6
17	GK3209	-0.9	0.9	-0.2	-0.1	-2.4	1.3	-13.9	-22.5	30.8	-32.0	6.1	-1.0
18	Rasi 2015	-8.2	-9.6	-6.2	-7.7	10.4	0.3	1.6	-21.9	30.4	-25.1	-12.6	-0.6
19	DKC 9181(IR8494)	-9.1	5.2	-14.1	-7.3	8.6	12.1	40.0	-17.2	26.5	-15.1	-5.4	8.6
20	JH 273	-10.3	-10.6	-14.1	-11.9	23.7	3.4	6.4	-27.6	15.8	-13.3	-27.4	-4.6
21	DKC 9188(IR8737)	-3.3	-6.7	2.6	-1.8	5.7	7.1	12.2	-7.9	27.5	2.1	-6.3	5.3
22	PM16202L	-12.7	15.5	-1.3	-0.3	10.3	-16.0	-6.2	-16.3	33.9	-36.3	-8.4	-1.2
23	IH-031	-40.3	-53.2	-58.7	-51.4	-42.2	-31.7	25.2	-44.1	-38.2	45.1	-35.8	-28.6
24	Rasi 1107	-7.1	0.9	0.5	-1.8	30.6	-14.6	-8.8	-41.2	21.9	-30.0	-13.5	-8.1
25	PM16203L	9.6	-2.1	-10.5	-1.9	48.3	-1.6	-9.0	-14.5	55.4	-16.2	20.6	14.1
26	PM16207L	3.3	-0.4	-14.6	-5.2	-13.7	0.6	-13.4	-16.2	34.0	-4.2	-8.3	-3.0
27	KH-1226	-0.5	-20.7	-8.7	-9.4	-39.8	7.6	-6.5	-15.0	10.0	-45.4	-18.4	-9.8
28	Star-47	-4.9	8.8	-10.3	-3.4	-11.7	1.2	5.1	-49.7	9.0	-7.0	11.7	-8.4
29	MM2033	-12.6	-13.2	5.7	-5.2	26.0	16.3	2.3	-24.1	38.3	-49.2	10.9	8.5
30	JH 358	-0.8	-3.1	-4.9	-3.1	32.0	0.0	-3.8	-23.5	4.6	-25.0	-15.0	-4.5

TABLE No. 1 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Seedtech 2324											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
31	IH-0712	-4.6	-51.9	-53.4	-37.8	-48.9	-32.7	-21.0	-41.7	-34.2	-27.2	-32.4	-34.9
32	CMH 2725	-5.6	-5.3	-13.6	-8.8	18.6	15.3	4.3	-17.7	22.7	-29.2	-17.3	1.4
33	KWS-8933	-7.2	-19.2	-25.4	-18.0	-45.5	7.6	-8.2	-17.6	9.6	-25.3	-41.0	-15.6
34	HT 16047	-4.6	1.2	13.5	4.5	-6.3	8.9	-13.1	-10.2	62.1	-3.2	9.9	9.0
35	PM16204L	-0.6	20.2	26.9	16.5	17.5	-21.8	2.5	-3.6	4.0	-13.6	16.5	2.6
36	VNR-32994	2.1	-3.9	2.0	0.4	50.9	3.7	-8.0	-12.5	26.6	-12.2	-9.3	5.0
37	Star-57	0.5	-8.1	-23.9	-12.0	-14.4	1.1	-18.3	-19.3	25.1	-30.1	-3.7	-5.2
38	BIO 305	8.3	-6.7	6.1	3.3	19.9	18.2	41.9	-21.5	24.6	-17.8	-8.4	9.0
39	REH-2014-6	-11.4	-37.1	-40.4	-30.4	-26.5	-5.4	-27.6	-16.8	-2.3	-13.7	5.1	-11.5
40	IH-0330	-26.9	-46.9	-21.4	-30.1	-25.2	-29.8	4.8	-35.4	-39.0	-27.9	-53.1	-30.9
41	JH 409	-13.0	-17.1	-27.9	-20.3	-20.7	13.2	-17.1	-32.8	15.5	-19.4	-27.2	-13.5
42	PM16206L	7.5	0.8	-10.0	-1.6	-20.6	5.0	-0.2	-13.4	18.3	-8.9	4.7	-0.8
43	GK3208	-18.4	-11.3	-13.2	-14.3	42.9	6.6	-25.1	-15.2	21.6	-10.0	7.1	3.2
44	PM16205L	2.5	0.9	-7.3	-2.0	-5.3	-3.6	-9.3	8.0	48.2	-46.8	-1.8	7.6
45	P3522 (C)	-20.5	9.2	-11.9	-8.8	-26.2	-1.7	-0.4	-25.4	35.5	1.0	-16.5	-6.0
46	Seedtech 2324 (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	Buland (C)	-1.8	-15.2	-10.0	-8.9	-8.6	8.8	-4.6	-32.4	23.8	-0.1	-27.3	-9.1
48	Bio 9981 (C)	-2.8	-0.9	-5.0	-3.2	16.2	17.2	-14.6	-5.7	35.5	-6.2	0.4	6.7

TABLE No. 1 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Seedtech 2324										
		4							5			All India
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	
1	JH 248	8.1	-52.1	5.2	-12.3	6.2	1.3	-7.2	23.3	35.2	27.4	-5.9
2	PM16201L	18.4	-7.3	21.7	6.4	-0.3	21.5	11.1	71.3	84.6	77.2	9.9
3	JH 295	-0.4	-45.5	-67.8	-17.2	22.9	8.4	-17.6	31.9	65.5	42.6	-8.9
4	BLH 116	33.8	3.2	25.2	23.8	24.9	23.7	22.8	103.8	28.1	84.6	13.9
5	HT 16052	29.5	-5.8	-0.4	4.2	27.8	26.0	13.8	79.3	19.4	64.1	9.7
6	BLH 113	27.3	-17.6	20.1	19.9	-5.4	13.6	11.0	78.6	82.0	81.8	7.6
7	ADV 7139	50.3	1.7	3.7	16.1	0.5	39.2	21.1	41.4	109.3	62.4	4.2
8	DAS-MH-903	-3.7	27.3	33.2	-7.2	7.5	8.4	10.6	99.3	88.6	98.9	11.7
9	Super 3366	57.4	-16.8	-29.4	-19.5	30.0	1.6	5.1	79.5	7.6	60.8	7.9
10	CMH 2829	45.3	5.7	-50.1	11.0	12.3	-1.2	5.1	71.9	21.1	59.1	7.9
11	ADV 7037	29.9	17.5	1.3	-5.6	23.9	25.8	16.0	39.5	21.7	35.4	8.2
12	IH-1304	4.6	-34.8	-41.2	-29.8	15.7	-18.6	-18.0	32.1	41.3	35.7	-22.6
13	KWS-8915	26.5	-10.5	-28.2	-30.6	2.0	23.2	-1.3	66.3	5.0	50.3	-3.2
14	KH-2124	8.7	-10.6	13.5	-13.5	31.3	25.9	8.5	55.7	29.4	49.6	1.2
15	JH 412	2.1	-44.8	-5.7	-8.9	7.4	1.9	-8.3	58.5	57.7	59.9	-7.4
16	DAS-MH-904	23.7	27.0	24.2	20.2	48.3	6.9	23.7	75.5	103.6	85.8	10.8
17	GK3209	-4.7	9.7	-6.5	2.8	24.6	24.6	7.3	57.8	67.0	62.1	6.0
18	Rasi 2015	21.0	17.7	-18.5	38.2	28.9	4.4	14.5	79.1	39.4	69.7	6.9
19	DKC 9181(IR8494)	19.1	27.7	-12.8	9.1	20.1	8.6	11.9	117.0	15.8	90.7	11.5
20	JH 273	13.8	-11.4	32.4	13.5	40.1	19.3	16.6	51.5	79.4	61.1	4.3
21	DKC 9188(IR8737)	9.6	9.6	41.3	-1.9	49.2	19.6	19.5	71.7	57.1	69.5	12.2
22	PM16202L	12.8	10.0	22.3	26.4	40.6	42.4	24.6	86.7	55.2	79.9	12.1
23	IH-031	-18.4	-25.6	-40.7	-26.8	11.0	-7.0	-19.2	7.3	20.8	11.5	-28.4
24	Rasi 1107	-3.1	17.3	22.4	32.8	23.6	2.4	14.3	49.8	110.9	69.0	5.2
25	PM16203L	37.2	35.7	-11.0	-8.1	7.0	35.2	17.9	76.5	58.0	73.2	15.5
26	PM16207L	30.8	-4.8	20.3	22.0	6.6	7.3	14.6	125.9	40.3	104.5	9.1
27	KH-1226	8.2	-28.7	7.0	-12.4	24.6	24.3	3.3	50.1	61.0	54.7	-1.4
28	Star-47	11.7	1.3	10.7	-2.3	14.8	12.1	8.0	58.1	61.5	60.7	2.4
29	MM2033	-3.7	-16.5	6.1	-0.9	37.1	19.1	5.1	72.5	75.2	75.3	8.9
30	JH 358	21.0	3.7	-10.8	-14.7	21.0	11.4	5.4	63.3	28.4	54.9	2.9

TABLE No. 1 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Seedtech 2324										
		4							5			All India
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	
31	IH-0712	-21.1	-14.9	-46.0	-20.8	2.1	-9.0	-19.3	11.3	52.9	23.8	-26.9
32	CMH 2725	7.1	-6.9	8.1	-3.0	57.7	14.8	10.6	58.4	48.4	57.1	5.5
33	KWS-8933	22.3	13.2	1.7	6.8	27.2	29.3	16.7	64.9	30.9	56.8	-1.9
34	HT 16047	12.0	24.7	-36.5	3.3	30.3	17.0	7.7	81.3	60.6	77.5	12.4
35	PM16204L	2.6	-7.3	3.6	14.6	24.6	2.4	5.5	71.4	59.0	69.8	11.5
36	VNR-32994	1.0	-6.0	-4.4	-7.2	35.1	24.9	5.9	91.2	102.6	97.1	10.7
37	Star-57	20.9	-4.3	9.5	-1.8	31.3	21.1	12.5	64.2	2.9	48.1	1.9
38	BIO 305	19.6	6.3	-9.4	19.0	15.0	17.5	11.5	63.5	-8.9	44.2	10.8
39	REH-2014-6	-12.2	-32.5	-27.7	-24.3	15.3	1.4	-14.5	43.5	-6.3	30.2	-13.9
40	IH-0330	-22.6	-33.8	-49.0	-12.1	21.4	-19.0	-21.4	-13.8	51.3	4.8	-25.4
41	JH 409	9.2	-58.8	-18.8	-28.9	31.3	-7.8	-13.4	58.5	-10.5	40.0	-11.3
42	PM16206L	33.1	18.5	-10.4	13.8	39.1	1.8	15.5	91.3	68.9	87.3	9.9
43	GK3208	45.2	14.5	-7.4	-0.9	36.8	11.9	17.1	26.2	8.3	21.7	4.3
44	PM16205L	1.9	1.9	38.1	19.4	-14.3	-14.3	5.9	126.6	13.8	97.3	11.1
45	P3522 (C)	34.3	19.9	-2.6	13.3	-23.9	14.4	12.0	100.1	-21.5	67.4	3.6
46	Seedtech 2324 (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	Buland (C)	-0.8	-40.4	-41.6	-4.3	-10.4	-17.1	-18.9	56.5	-44.6	28.6	-9.2
48	Bio 9981 (C)	9.8	-13.0	-3.7	19.7	24.1	15.8	8.0	69.3	-23.9	44.1	7.3

TABLE No. 1 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Buland											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
1	JH 248	-12.4	-7.9	-2.2	-7.1	-12.2	-9.6	33.2	21.5	-15.9	18.7	-19.7	4.3
2	PM16201L	2.2	27.4	-3.8	6.2	77.8	2.5	-0.2	3.7	-5.9	-13.2	55.6	15.6
3	JH 295	1.9	-20.1	-4.6	-6.4	3.3	6.9	-5.0	4.6	-5.8	-26.9	-8.6	1.0
4	BLH 116	13.9	34.0	3.8	14.9	-3.4	-5.5	14.9	7.1	13.7	-20.0	73.1	11.0
5	HT 16052	4.9	12.1	15.0	10.9	26.0	-0.9	-1.4	29.7	5.3	5.1	58.1	12.8
6	BLH 113	-0.3	13.9	3.3	4.8	-13.1	-8.2	-8.6	45.3	6.6	-49.3	38.2	9.5
7	ADV 7139	-5.3	21.8	-14.4	-2.1	11.8	-13.4	-13.2	15.0	-12.1	0.9	70.6	0.3
8	DAS-MH-903	-5.7	35.1	17.1	14.0	36.3	-7.5	-2.2	22.8	8.0	-42.2	113.6	12.2
9	Super 3366	-1.5	-2.5	19.3	6.8	34.2	-7.9	-6.9	44.1	11.3	13.1	39.5	17.7
10	CMH 2829	12.4	11.8	-0.9	6.8	30.8	-6.7	37.3	4.7	9.1	8.8	77.3	18.0
11	ADV 7037	10.6	25.8	3.6	11.6	-9.1	-5.0	41.7	4.6	-2.9	-14.4	97.1	12.0
12	IH-1304	-19.5	-28.1	-42.1	-31.0	-28.1	-16.0	-19.5	-5.4	-34.0	-5.1	9.4	-20.3
13	KWS-8915	3.8	-15.6	-2.2	-3.6	30.7	-10.2	-11.9	27.7	8.3	-35.7	50.2	0.8
14	KH-2124	-0.2	23.4	-3.2	4.6	-7.4	-14.4	9.3	-1.8	-5.4	-10.1	50.0	0.4
15	JH 412	0.2	2.7	-1.2	0.3	-20.7	-9.1	4.3	-10.0	-13.9	11.1	-7.3	-9.5
16	DAS-MH-904	7.1	-2.0	-6.0	-0.6	33.7	-13.4	-8.0	24.8	-0.1	-29.7	113.0	10.6
17	GK3209	0.9	19.1	10.8	9.6	6.8	-6.9	-9.7	14.7	5.6	-31.9	84.0	8.9
18	Rasi 2015	-6.6	6.7	4.3	1.2	20.8	-7.9	6.6	15.6	5.3	-25.0	97.4	9.4
19	DKC 9181(IR8494)	-7.5	24.1	-4.6	1.7	18.8	3.0	46.9	22.5	2.1	-15.0	114.2	19.4
20	JH 273	-8.6	5.4	-4.5	-3.4	35.2	-5.0	11.6	7.1	-6.5	-13.2	48.6	4.9
21	DKC 9188(IR8737)	-1.6	10.1	14.0	7.8	15.6	-1.6	17.7	36.2	2.9	2.2	83.9	15.9
22	PM16202L	-11.1	36.2	9.6	9.4	20.6	-22.8	-1.7	23.8	8.1	-36.2	84.4	8.7
23	IH-031	-39.3	-44.7	-54.1	-46.7	-36.8	-37.3	31.3	-17.4	-50.1	45.3	24.9	-21.4
24	Rasi 1107	-5.4	19.0	11.6	7.8	42.9	-21.5	-4.4	-13.0	-1.5	-29.9	96.7	1.1
25	PM16203L	11.6	15.5	-0.5	7.6	62.2	-9.6	-4.6	26.5	25.5	-16.1	127.6	25.5
26	PM16207L	5.1	17.5	-5.1	4.1	-5.6	-7.6	-9.2	24.0	8.2	-4.1	59.7	6.8
27	KH-1226	1.3	-6.5	1.4	-0.6	-34.1	-1.2	-2.0	25.8	-11.2	-45.3	19.6	-0.8
28	Star-47	-3.2	28.3	-0.4	6.0	-3.4	-7.1	10.2	-25.6	-12.0	-6.9	70.0	0.8
29	MM2033	-11.0	2.4	17.4	4.0	37.8	6.8	7.2	12.3	11.7	-49.2	40.1	19.3
30	JH 358	1.0	14.3	5.7	6.3	44.4	-8.1	0.9	13.2	-15.6	-24.9	73.9	5.1

TABLE No. 1 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Buland											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
31	IH-0712	-2.9	-43.3	-48.2	-31.7	-44.1	-38.2	-17.2	-13.7	-46.9	-27.2	42.8	-28.4
32	CMH 2725	-3.9	11.7	-4.0	0.0	29.7	5.9	9.3	21.8	-0.9	-29.1	56.2	11.5
33	KWS-8933	-5.5	-4.7	-17.1	-10.1	-40.4	-1.2	-3.7	21.9	-11.5	-25.2	89.8	-7.1
34	HT 16047	-2.9	19.4	26.1	14.7	2.5	0.0	-8.8	32.8	30.9	-3.1	109.2	19.9
35	PM16204L	1.2	41.8	41.0	27.8	28.5	-28.2	7.4	42.6	-16.1	-13.5	55.5	12.9
36	VNR-32994	3.9	13.4	13.4	10.2	65.0	-4.7	-3.5	29.5	2.2	-12.0	57.7	15.5
37	Star-57	2.3	8.4	-15.4	-3.4	-6.4	-7.1	-14.3	19.4	1.0	-30.0	60.6	4.3
38	BIO 305	10.3	10.0	17.9	13.3	31.2	8.6	48.8	16.2	0.7	-17.7	78.3	19.9
39	REH-2014-6	-9.8	-25.8	-33.8	-23.7	-19.6	-13.1	-24.1	23.1	-21.1	-13.6	13.2	-2.7
40	IH-0330	-25.5	-37.4	-12.7	-23.3	-18.2	-35.5	9.9	-4.4	-50.7	-27.8	11.0	-24.0
41	JH 409	-11.5	-2.2	-19.9	-12.6	-13.3	4.0	-13.1	-0.6	-6.7	-19.3	-30.8	-4.8
42	PM16206L	9.5	18.9	-0.1	8.0	-13.2	-3.6	4.7	28.1	-4.5	-8.7	98.8	9.1
43	GK3208	-16.9	4.6	-3.6	-6.0	56.3	-2.0	-21.5	25.4	-1.9	-9.9	92.0	13.5
44	PM16205L	4.4	19.1	3.0	7.6	3.6	-11.5	-4.8	59.8	19.7	-46.7	70.9	18.4
45	P3522 (C)	-19.1	28.9	-2.1	0.1	-19.3	-9.7	4.4	10.3	9.4	1.1	101.1	3.4
46	Seedtech 2324 (C)	1.8	18.0	11.1	9.7	9.4	-8.1	4.9	47.9	-19.3	0.1	67.7	10.0
47	Buland (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	Bio 9981 (C)	-1.0	16.9	5.6	6.3	27.1	7.7	-10.5	39.5	9.4	-6.1	45.9	17.4

TABLE No. 1 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Buland										
		4							5			All India
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	
1	JH 248	8.9	10.7	80.0	-8.4	18.5	22.1	14.3	-21.2	143.9	-0.9	3.7
2	PM16201L	19.3	48.5	108.3	11.1	11.3	46.5	36.9	9.4	233.2	37.8	21.1
3	JH 295	0.3	6.9	-44.9	-13.5	37.2	30.7	1.6	-15.8	198.6	10.8	0.4
4	BLH 116	34.8	34.6	114.3	29.3	39.4	49.1	51.3	30.2	131.1	43.5	25.4
5	HT 16052	30.5	24.8	70.5	8.9	42.6	52.0	40.2	14.5	115.5	27.5	20.8
6	BLH 113	28.2	27.7	105.6	25.2	5.6	37.0	36.9	14.1	228.5	41.3	18.5
7	ADV 7139	51.4	23.3	77.5	21.2	12.2	67.9	49.3	-9.7	277.7	26.2	14.8
8	DAS-MH-903	-3.0	24.3	128.0	-3.0	19.9	30.7	36.3	27.3	240.3	54.7	23.0
9	Super 3366	58.6	38.2	20.9	-15.9	45.1	22.5	29.6	14.7	94.2	25.0	18.9
10	CMH 2829	46.4	41.7	-14.7	16.0	25.3	19.2	29.5	9.8	118.6	23.7	18.9
11	ADV 7037	30.9	45.1	73.4	-1.4	38.2	51.6	43.0	-10.9	119.7	5.3	19.2
12	IH-1304	5.4	-15.2	0.6	-26.7	29.1	-1.8	1.1	-15.6	154.9	5.5	-14.7
13	KWS-8915	27.5	-41.2	23.0	-27.5	13.8	48.5	21.6	6.2	89.5	16.8	6.7
14	KH-2124	9.6	23.2	94.2	-9.6	46.5	51.8	33.7	-0.6	133.5	16.3	11.5
15	JH 412	2.9	-9.5	61.4	-4.8	19.8	22.8	13.1	1.2	184.6	24.3	2.0
16	DAS-MH-904	24.6	39.0	112.6	25.6	65.5	28.9	52.4	12.1	267.4	44.4	22.0
17	GK3209	-4.0	46.0	60.1	7.4	39.1	50.2	32.2	0.8	201.3	26.0	16.7
18	Rasi 2015	21.9	20.3	39.4	44.4	43.8	25.8	41.1	14.4	151.5	31.9	17.8
19	DKC 9181(IR8494)	20.0	30.2	49.2	14.0	34.0	30.9	37.9	38.6	108.9	48.3	22.9
20	JH 273	14.6	-0.1	126.5	18.5	56.3	43.8	43.7	-3.3	223.8	25.2	14.9
21	DKC 9188(IR8737)	10.4	29.0	141.8	2.5	66.5	44.2	47.3	9.7	183.6	31.8	23.6
22	PM16202L	13.7	26.1	109.3	32.0	56.8	71.7	53.5	19.3	180.1	39.9	23.4
23	IH-031	-17.8	-11.6	1.5	-23.5	23.9	12.1	-0.4	-31.4	117.9	-13.4	-21.2
24	Rasi 1107	-2.4	19.0	109.6	38.7	37.9	23.5	40.9	-4.3	280.6	31.4	15.9
25	PM16203L	38.2	66.0	52.4	-4.0	19.4	63.0	45.3	12.7	185.0	34.7	27.2
26	PM16207L	31.8	26.2	105.8	27.4	19.0	29.3	41.2	44.3	153.2	58.9	20.1
27	KH-1226	9.0	12.3	83.1	-8.5	39.1	49.8	27.4	-4.1	190.6	20.3	8.6
28	Star-47	12.5	53.8	89.5	2.1	28.2	35.2	33.1	1.0	191.4	24.9	12.7
29	MM2033	-3.0	52.7	81.5	3.5	53.0	43.6	29.5	10.2	216.2	36.3	20.0
30	JH 358	21.9	16.9	52.6	-10.9	35.1	34.3	29.9	4.3	131.8	20.4	13.3

TABLE No. 1 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Buland										
		4							5			All India
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	
31	IH-0712	-20.5	-7.0	-7.6	-17.2	14.0	9.7	-0.5	-28.9	175.9	-3.8	-19.5
32	CMH 2725	8.0	13.8	85.0	1.3	76.0	38.4	36.4	1.2	167.9	22.1	16.2
33	KWS-8933	23.3	-18.8	74.0	11.6	41.9	55.9	43.8	5.4	136.2	21.9	8.1
34	HT 16047	12.8	51.2	8.6	7.9	45.4	41.0	32.8	15.8	189.8	38.0	23.8
35	PM16204L	3.4	60.3	77.3	19.8	39.0	23.4	30.0	9.5	186.9	32.0	22.8
36	VNR-32994	1.8	24.9	63.6	-3.0	50.8	50.6	30.5	22.2	265.5	53.2	21.9
37	Star-57	21.8	32.6	87.4	2.5	46.6	46.0	38.6	4.9	85.8	15.2	12.3
38	BIO 305	20.5	26.1	55.0	24.3	28.4	41.6	37.4	4.5	64.5	12.1	22.1
39	REH-2014-6	-11.5	44.7	23.8	-20.9	28.6	22.2	5.4	-8.3	69.1	1.2	-5.2
40	IH-0330	-22.0	-35.5	-12.7	-8.2	35.4	-2.3	-3.2	-45.0	173.1	-18.5	-17.9
41	JH 409	10.0	0.3	38.9	-25.7	46.5	11.2	6.7	1.3	61.5	8.9	-2.3
42	PM16206L	34.1	44.1	53.3	18.9	55.2	22.8	42.3	22.2	204.8	45.6	21.0
43	GK3208	46.3	47.4	58.6	3.5	52.6	34.9	44.3	-19.4	95.4	-5.4	14.9
44	PM16205L	2.7	35.2	136.4	24.7	-4.4	3.3	30.5	44.8	105.4	53.4	22.4
45	P3522 (C)	35.4	14.9	66.7	18.4	-15.1	37.9	38.1	27.8	41.6	30.2	14.1
46	Seedtech 2324 (C)	0.8	37.6	71.2	4.5	11.6	20.6	23.2	-36.1	80.5	-22.3	10.2
47	Buland (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	Bio 9981 (C)	10.7	38.2	64.9	25.1	38.5	39.6	33.1	8.2	37.4	12.0	18.2

TABLE No. 1 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Bio 9981											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
1	JH 248	-11.5	-21.2	-7.4	-12.5	-30.9	-16.1	48.8	-12.9	-23.2	26.3	-19.9	-11.2
2	PM16201L	3.2	9.0	-8.9	-0.1	39.9	-4.8	11.5	-25.7	-14.0	-7.6	7.5	-1.5
3	JH 295	2.9	-31.7	-9.6	-11.9	-18.7	-0.8	6.1	-25.1	-13.9	-22.2	-22.7	-14.0
4	BLH 116	15.0	14.6	-1.7	8.1	-24.0	-12.2	28.3	-23.2	3.9	-14.9	-2.6	-5.4
5	HT 16052	5.9	-4.1	8.9	4.3	-0.9	-7.9	10.1	-7.0	-3.7	11.8	-9.7	-3.9
6	BLH 113	0.8	-2.6	-2.2	-1.4	-31.6	-14.7	2.1	4.2	-2.6	-46.0	-7.6	-6.7
7	ADV 7139	-4.3	4.2	-18.9	-7.9	-12.0	-19.6	-3.1	-17.5	-19.7	7.4	-10.8	-14.5
8	DAS-MH-903	-4.8	15.5	10.9	7.3	7.3	-14.1	9.2	-12.0	-1.3	-38.5	-10.0	-4.4
9	Super 3366	-0.5	-16.6	13.0	0.5	5.7	-14.4	4.0	3.3	1.7	20.4	0.0	0.3
10	CMH 2829	13.5	-4.4	-6.1	0.5	3.0	-13.4	53.3	-24.9	-0.3	15.8	2.5	0.6
11	ADV 7037	11.7	7.6	-1.9	5.0	-28.4	-11.8	58.3	-25.0	-11.2	-8.8	5.0	-4.5
12	IH-1304	-18.7	-38.5	-45.2	-35.0	-43.4	-22.0	-10.1	-32.2	-39.6	1.0	-38.6	-32.1
13	KWS-8915	4.8	-27.8	-7.3	-9.2	2.8	-16.5	-1.6	-8.5	-1.0	-31.6	-57.4	-14.1
14	KH-2124	0.8	5.5	-8.3	-1.6	-27.1	-20.5	22.1	-29.6	-13.6	-4.3	-10.9	-14.5
15	JH 412	1.2	-12.2	-6.4	-5.6	-37.6	-15.6	16.5	-35.5	-21.3	18.2	-34.5	-22.9
16	DAS-MH-904	8.2	-16.2	-11.0	-6.4	5.3	-19.6	2.8	-10.6	-8.7	-25.2	0.6	-5.7
17	GK3209	1.9	1.9	5.0	3.2	-15.9	-13.5	0.8	-17.8	-3.5	-27.5	5.7	-7.2
18	Rasi 2015	-5.6	-8.7	-1.3	-4.7	-4.9	-14.4	19.0	-17.1	-3.8	-20.2	-12.9	-6.8
19	DKC 9181(IR8494)	-6.6	6.2	-9.6	-4.3	-6.5	-4.3	64.0	-12.2	-6.7	-9.5	-5.8	1.8
20	JH 273	-7.7	-9.8	-9.6	-9.1	6.5	-11.7	24.7	-23.2	-14.6	-7.6	-27.7	-10.6
21	DKC 9188(IR8737)	-0.6	-5.8	7.9	1.4	-9.0	-8.6	31.4	-2.4	-5.9	8.8	-6.7	-1.3
22	PM16202L	-10.2	16.5	3.8	3.0	-5.1	-28.3	9.8	-11.3	-1.2	-32.1	-8.7	-7.4
23	IH-031	-38.7	-52.7	-56.5	-49.9	-50.2	-41.8	46.6	-40.8	-54.4	54.7	-36.1	-33.0
24	Rasi 1107	-4.5	1.8	5.7	1.4	12.5	-27.1	6.8	-37.7	-10.0	-25.4	-13.9	-13.8
25	PM16203L	12.7	-1.2	-5.8	1.3	27.7	-16.1	6.5	-9.4	14.7	-10.7	20.1	7.0
26	PM16207L	6.2	0.5	-10.1	-2.1	-25.7	-14.2	1.4	-11.1	-1.1	2.1	-8.7	-9.0
27	KH-1226	2.3	-20.0	-4.0	-6.5	-48.2	-8.2	9.5	-9.8	-18.9	-41.7	-18.8	-15.4
28	Star-47	-2.2	9.8	-5.6	-0.3	-24.0	-13.7	23.1	-46.7	-19.6	-0.9	11.2	-14.1
29	MM2033	-10.1	-12.5	11.2	-2.1	8.5	-0.8	19.8	-19.5	2.1	-45.9	10.5	1.7
30	JH 358	2.0	-2.2	0.1	0.0	13.7	-14.7	12.7	-18.9	-22.8	-20.1	-15.4	-10.5

TABLE No. 1 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Bio 9981										
		4							5			All India
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	
1	JH 248	-1.6	-44.9	9.2	-26.8	-14.4	-12.6	-14.1	-27.2	77.5	-11.6	-12.3
2	PM16201L	7.8	6.6	26.3	-11.2	-19.7	5.0	2.8	1.2	142.5	23.0	2.4
3	JH 295	-9.3	-37.4	-66.6	-30.8	-1.0	-6.4	-23.7	-22.1	117.3	-1.1	-15.1
4	BLH 116	21.8	18.7	30.0	3.4	0.6	6.8	13.7	20.4	68.2	28.2	6.1
5	HT 16052	18.0	8.3	3.4	-12.9	3.0	8.9	5.3	5.9	56.8	13.9	2.2
6	BLH 113	15.9	-5.3	24.7	0.1	-23.8	-1.9	2.8	5.5	139.1	26.2	0.3
7	ADV 7139	36.9	16.9	7.7	-3.1	-19.0	20.3	12.1	-16.5	174.9	12.7	-2.9
8	DAS-MH-903	-12.3	46.4	38.3	-22.5	-13.4	-6.4	2.4	17.7	147.7	38.1	4.1
9	Super 3366	43.4	-4.4	-26.7	-32.8	4.8	-12.2	-2.7	6.0	41.3	11.6	0.6
10	CMH 2829	32.3	21.5	-48.2	-7.3	-9.6	-14.6	-2.7	1.5	59.1	10.4	0.6
11	ADV 7037	18.3	35.1	5.2	-21.2	-0.2	8.6	7.4	-17.6	59.9	-6.0	0.8
12	IH-1304	-4.8	-25.0	-39.0	-41.4	-6.8	-29.7	-24.0	-22.0	85.5	-5.8	-27.9
13	KWS-8915	15.2	2.9	-25.4	-42.0	-17.8	6.4	-8.6	-1.8	37.9	4.3	-9.8
14	KH-2124	-1.0	2.8	17.8	-27.7	5.8	8.8	0.5	-8.1	69.9	3.8	-5.7
15	JH 412	-7.0	-36.5	-2.1	-23.9	-13.5	-12.0	-15.1	-6.4	107.1	11.0	-13.7
16	DAS-MH-904	12.6	46.0	28.9	0.4	19.4	-7.6	14.5	3.6	167.4	29.0	3.2
17	GK3209	-13.2	26.1	-2.9	-14.1	0.4	7.6	-0.7	-6.8	119.3	12.5	-1.3
18	Rasi 2015	10.2	35.3	-15.4	15.4	3.8	-9.9	6.0	5.8	83.0	17.8	-0.4
19	DKC 9181(IR8494)	8.5	46.8	-9.5	-8.9	-3.3	-6.2	3.6	28.2	52.0	32.4	3.9
20	JH 273	3.6	1.8	37.4	-5.2	12.8	3.0	8.0	-10.5	135.6	11.8	-2.8
21	DKC 9188(IR8737)	-0.2	26.0	46.7	-18.0	20.2	3.3	10.7	1.4	106.4	17.6	4.6
22	PM16202L	2.7	26.4	26.9	5.5	13.2	23.0	15.3	10.3	103.9	24.9	4.4
23	IH-031	-25.7	-14.4	-38.4	-38.9	-10.6	-19.7	-25.2	-36.6	58.6	-22.6	-33.3
24	Rasi 1107	-11.8	34.8	27.1	10.9	-0.5	-11.6	5.9	-11.5	177.0	17.3	-2.0
25	PM16203L	24.9	56.0	-7.6	-23.3	-13.8	16.8	9.2	4.2	107.5	20.2	7.6
26	PM16207L	19.1	9.5	24.8	1.9	-14.1	-7.3	6.1	33.4	84.3	41.9	1.6
27	KH-1226	-1.5	-18.0	11.1	-26.8	0.4	7.3	-4.3	-11.3	111.5	7.4	-8.2
28	Star-47	1.7	16.5	14.9	-18.4	-7.5	-3.1	0.0	-6.6	112.1	11.5	-4.6
29	MM2033	-12.3	-4.0	10.1	-17.3	10.4	2.9	-2.7	1.9	130.1	21.7	1.5
30	JH 358	10.2	19.2	-7.5	-28.8	-2.5	-3.8	-2.4	-3.6	68.7	7.5	-4.2

TABLE No. 1 (Contd.)

Sl	Entry Name	MOISTURE % AT HARVEST											
		2				3							
		Karnal Ludhiana Pantnagar Zone Mean				Bahraich Bhubaneshwar Dholi Kalyani Ranchi Sabour Varanasi Zone Mean							
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
1	JH 248	30.5	13.6	25.2	23.1	24.3	19.6	21.1	18.3	23.3	32.8	30.1	30.9
2	PM16201L	29.8	14.1	21.9	22.0	27.9	19.7	21.9	18.9	25.4	32.7	31.8	33.1
3	JH 295	27.6	13.6	24.4	21.8	24.1	19.5	25.1	18.3	24.9	28.1	32.0	31.4
4	BLH 116	28.2	13.9	25.4	22.5	25.9	20.3	25.0	18.4	22.3	26.6	31.4	32.6
5	HT 16052	28.5	13.4	24.8	22.2	26.7	19.2	24.6	18.4	24.4	30.4	31.7	32.3
6	BLH 113	26.6	13.8	25.1	21.8	24.1	20.4	23.5	18.1	25.8	28.1	32.8	33.0
7	ADV 7139	28.9	14.5	22.7	22.0	24.5	20.0	24.3	18.2	25.3	27.6	32.3	32.4
8	DAS-MH-903	29.4	13.4	22.1	21.7	27.9	19.2	23.7	18.2	26.8	29.4	31.2	33.2
9	Super 3366	30.6	13.7	25.7	23.4	26.9	20.6	24.7	18.3	26.8	32.4	32.5	32.0
10	CMH 2829	27.5	14.0	24.3	21.9	25.9	20.6	24.3	17.8	25.7	30.2	31.7	31.2
11	ADV 7037	30.2	14.4	27.4	24.0	27.3	20.4	27.2	18.4	23.8	29.5	33.1	33.1
12	IH-1304	27.3	13.0	20.9	20.4	23.3	20.9	20.9	17.7	24.3	31.6	30.7	31.9
13	KWS-8915	28.5	13.8	22.9	21.7	25.0	19.2	23.9	17.8	23.9	31.6	31.4	33.4
14	KH-2124	30.5	14.0	26.3	23.6	27.1	19.0	24.2	18.8	26.9	32.3	30.9	32.9
15	JH 412	26.4	13.6	20.2	20.1	25.0	19.9	22.0	19.8	25.4	31.4	31.7	32.4
16	DAS-MH-904	27.0	13.6	22.6	21.0	25.2	20.2	20.7	18.2	27.3	32.1	28.1	31.8
17	GK3209	30.6	13.8	24.9	23.1	25.1	20.4	25.3	18.2	26.8	31.1	29.7	33.7
18	Rasi 2015	28.6	13.7	24.6	22.3	25.9	19.7	23.0	19.1	24.9	30.6	31.3	33.2
19	DKC 9181(IR8494)	30.1	14.1	27.4	23.8	26.9	20.1	21.4	18.1	25.5	30.6	30.8	32.3
20	JH 273	28.9	13.5	24.1	22.2	23.9	20.8	23.2	17.9	25.8	31.9	32.7	33.0
21	DKC 9188(IR8737)	29.6	13.8	28.8	24.1	25.8	20.0	23.6	18.9	26.7	31.1	31.6	32.3
22	PM16202L	30.9	13.4	26.0	23.4	25.1	20.7	22.0	18.6	24.1	30.6	30.0	32.8
23	IH-031	28.8	13.5	20.3	20.9	23.1	20.2	19.5	19.1	23.9	29.3	27.7	28.3
24	Rasi 1107	29.5	13.5	27.0	23.3	26.0	19.9	25.7	18.7	26.2	27.2	33.7	33.4
25	PM16203L	27.5	14.6	24.0	22.0	26.9	20.4	23.7	18.4	23.9	33.5	32.0	32.5
26	PM16207L	27.5	14.0	24.0	21.8	23.8	21.1	21.2	18.0	28.0	32.0	30.7	32.7
27	KH-1226	28.9	14.2	25.4	22.8	31.7	20.1	25.1	18.7	24.6	28.9	32.9	34.2
28	Star-47	28.5	13.8	21.1	21.1	25.8	19.3	23.5	19.1	26.9	26.9	29.6	32.1
29	MM2033	28.9	13.5	21.1	21.2	25.5	19.6	24.3	18.3	24.3	27.9	30.3	32.9
30	JH 358	25.4	13.8	24.0	21.0	24.1	19.9	24.4	18.3	25.8	29.1	29.6	32.4

TABLE No. 1 (Contd.)

Sl	Entry Name	MOISTURE % AT HARVEST											
		2				3							
		Karnal Ludhiana Pantnagar Zone Mean				Bahraich Bhubaneshwar Dholi Kalyani Ranchi Sabour				Varanasi Zone Mean			
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
31	IH-0712	27.2	13.2	21.1	20.5	23.1	20.7	23.3	19.0	23.5	31.0	26.9	32.6
32	CMH 2725	30.5	14.1	24.1	22.9	26.9	19.6	24.9	18.0	23.4	30.5	35.0	32.9
33	KWS-8933	29.5	14.0	24.1	22.5	52.0	20.4	25.3	18.0	26.6	27.0	32.8	33.5
34	HT 16047	26.8	13.8	22.8	21.1	27.0	19.1	26.6	18.0	22.6	29.5	30.9	31.4
35	PM16204L	27.4	14.0	23.2	21.5	24.8	19.1	21.6	18.7	26.3	29.0	30.2	32.1
36	VNR-32994	29.5	13.6	26.6	23.2	27.9	19.4	23.9	18.6	25.5	30.2	33.7	32.4
37	Star-57	30.9	13.9	26.8	23.9	24.8	20.1	21.8	18.2	29.5	30.9	30.7	33.4
38	BIO 305	27.7	13.9	26.6	22.7	24.8	20.7	28.1	18.6	27.5	29.2	31.3	32.7
39	REH-2014-6	31.3	13.9	22.8	22.7	25.3	19.7	23.4	18.3	25.3	29.0	30.1	32.7
40	IH-0330	27.3	13.0	19.9	20.1	24.0	19.5	22.2	18.2	26.0	30.9	26.9	32.1
41	JH 409	28.4	13.6	26.5	22.8	26.0	19.1	21.3	18.4	27.2	26.1	32.5	32.5
42	PM16206L	28.2	14.1	25.1	22.4	25.2	19.5	21.0	19.2	21.9	26.2	28.8	30.0
43	GK3208	29.6	13.6	24.4	22.5	25.0	19.6	24.2	20.0	27.8	31.2	32.0	32.8
44	PM16205L	29.7	14.1	24.3	22.7	24.0	19.1	23.1	18.6	25.5	29.4	29.4	32.2
45	P3522 (C)	30.2	14.3	22.5	22.3	25.9	19.7	23.0	19.7	25.5	28.2	30.0	31.6
46	Seedtech 2324 (C)	28.5	13.9	22.9	21.8	24.7	19.6	25.5	18.6	25.7	28.3	29.3	32.1
47	Buland (C)	29.5	13.4	22.0	21.7	24.0	19.5	24.5	19.1	25.7	27.5	29.3	31.9
48	Bio 9981 (C)	28.0	14.0	20.0	20.6	26.1	10.6	22.3	19.6	23.5	29.5	30.9	30.2
	General Mean	28.8	13.8	24.0	22.2	26.1	19.7	23.5	18.5	25.3	29.8	31.0	32.3
	CV(%)	3.1	3.1	3.0	3.4	20.3	10.6	4.6	1.9	8.6	12.1	3.5	4.7
	P-Value	0.0	0.2	0.0	0.0	0.3	0.6	0.0	0.0	0.4	0.8	0.0	0.2
	CD (5%)	1.4	0.9	1.4	2.2	10.6	4.2	2.2	0.6	4.4	5.8	2.2	2.6

TABLE No. 1 (Contd.)

Sl	Entry Name	MOISTURE % AT HARVEST										
		4							5		All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean		Zone Mean
1	JH 248	19.1	14.6	21.9	11.4	7.2	15.4	15.0	16.2	17.2	16.6	22.7
2	PM16201L	19.0	14.0	19.7	10.3	7.6	15.9	14.5	17.3	15.4	16.4	23.1
3	JH 295	20.6	12.4	23.5	12.3	7.0	16.5	15.9	16.6	15.0	15.8	22.9
4	BLH 116	20.0	16.0	23.5	11.1	7.2	16.0	15.5	18.4	16.2	17.3	23.5
5	HT 16052	21.5	17.4	21.9	11.2	7.5	15.8	15.5	17.6	17.2	17.3	23.3
6	BLH 113	18.8	19.3	17.9	10.0	7.0	17.1	14.1	17.9	17.0	17.4	23.0
7	ADV 7139	22.2	17.8	22.6	10.5	7.3	16.1	15.7	17.0	16.2	16.6	23.3
8	DAS-MH-903	17.8	20.9	17.7	10.0	7.4	15.9	13.7	18.4	15.4	17.0	22.9
9	Super 3366	18.4	16.3	22.2	11.6	7.4	16.6	15.2	17.8	16.0	16.9	23.3
10	CMH 2829	17.5	17.1	22.0	13.2	6.9	16.4	15.2	17.8	17.0	17.4	22.7
11	ADV 7037	25.7	14.0	19.3	12.7	7.3	17.1	16.3	16.6	16.2	16.3	24.1
12	IH-1304	15.5	13.3	20.9	9.9	7.7	15.9	14.0	16.1	16.5	16.2	22.2
13	KWS-8915	20.1	19.2	21.1	12.3	7.2	16.9	15.5	17.3	16.0	16.7	23.5
14	KH-2124	21.4	14.1	20.4	10.3	7.9	16.3	15.2	17.0	15.4	16.2	23.6
15	JH 412	20.2	16.2	21.8	10.5	7.3	15.8	15.1	16.9	15.2	16.1	22.7
16	DAS-MH-904	13.8	10.5	19.8	9.3	7.8	17.2	13.6	17.0	14.9	16.0	22.1
17	GK3209	20.9	16.1	20.6	10.0	7.7	16.5	15.1	17.6	15.0	16.4	23.8
18	Rasi 2015	19.8	15.8	21.3	10.7	7.4	15.6	14.9	17.8	16.2	17.0	23.4
19	DKC 9181(IR8494)	18.5	14.0	19.7	10.1	7.3	16.1	14.3	18.1	15.1	16.7	23.1
20	JH 273	20.3	17.1	22.2	10.0	7.2	16.5	15.2	16.7	16.7	16.7	23.4
21	DKC 9188(IR8737)	20.1	19.8	21.3	10.8	7.6	17.1	15.3	17.9	17.2	17.5	23.6
22	PM16202L	19.5	19.0	19.9	10.6	7.1	15.8	14.5	17.8	17.5	17.6	23.5
23	IH-031	10.7	15.6	22.0	9.4	7.7	16.3	13.3	16.1	16.2	16.1	20.7
24	Rasi 1107	19.5	13.2	19.8	10.9	7.2	16.2	14.7	16.7	15.9	16.3	23.5
25	PM16203L	20.2	14.2	21.1	10.8	6.2	16.0	14.8	17.4	16.8	17.1	23.1
26	PM16207L	17.3	16.0	18.0	10.3	7.1	15.7	13.6	19.0	17.2	18.1	22.8
27	KH-1226	22.8	18.2	23.0	11.6	7.3	16.1	16.1	17.5	16.1	16.8	24.3
28	Star-47	16.9	16.1	18.2	10.5	7.1	15.7	13.7	17.3	15.0	16.2	22.3
29	MM2033	18.0	15.9	20.1	10.7	7.1	17.0	14.6	17.4	17.2	17.3	23.0
30	JH 358	18.7	12.5	21.3	10.1	7.3	16.2	14.7	17.4	17.8	17.5	22.9

TABLE No. 1 (Contd.)

Sl	Entry Name	MOISTURE % AT HARVEST										
		4							5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
31	IH-0712	17.4	13.1	20.8	11.7	6.7	16.2	14.5	16.1	15.2	15.6	22.6
32	CMH 2725	21.0	19.6	20.3	11.9	7.5	17.8	15.7	17.0	16.2	16.6	23.6
33	KWS-8933	21.4	18.4	22.7	11.7	7.4	15.7	15.8	18.0	14.1	16.2	23.8
34	HT 16047	21.4	14.5	21.3	10.5	7.6	16.0	15.3	18.0	15.2	16.7	22.6
35	PM16204L	18.7	18.5	20.2	9.6	7.2	17.4	14.6	17.9	16.0	17.0	22.7
36	VNR-32994	21.9	15.7	19.9	11.0	7.4	17.1	15.4	18.1	15.8	17.0	23.5
37	Star-57	16.8	20.1	17.4	11.0	7.2	16.2	13.6	17.3	16.4	16.8	23.4
38	BIO 305	22.8	14.9	21.4	11.4	6.3	16.0	15.5	17.6	17.2	17.4	23.6
39	REH-2014-6	20.1	15.0	21.4	11.8	7.3	16.0	15.3	16.1	18.0	16.9	23.4
40	IH-0330	12.7	12.4	19.0	9.9	7.2	15.7	12.9	16.4	17.8	17.0	21.9
41	JH 409	20.5	17.9	19.6	10.4	7.6	15.9	14.8	17.3	16.7	17.0	23.2
42	PM16206L	13.4	16.2	18.9	9.7	7.4	15.8	13.0	18.6	16.2	17.5	21.7
43	GK3208	19.6	19.7	19.3	10.4	7.3	15.7	14.4	17.6	16.5	17.1	23.2
44	PM16205L	14.3	14.3	18.9	9.4	6.3	16.0	13.0	18.5	15.9	17.2	22.5
45	P3522 (C)	15.3	15.4	20.2	13.0	7.4	15.7	14.3	18.3	15.8	17.1	22.6
46	Seedtech 2324 (C)	21.1	14.3	19.4	10.7	7.5	15.6	14.8	15.7	15.7	15.7	22.7
47	Buland (C)	14.2	13.8	19.2	9.2	6.6	16.6	13.1	16.6	16.0	16.3	22.2
48	Bio 9981 (C)	22.5	17.6	21.4	10.7	8.1	15.9	15.7	17.4	16.8	17.1	22.2
	General Mean	18.9	15.9	20.5	10.7	7.3	16.2	14.7	17.3	16.2	16.8	23.0
	CV(%)	6.7	20.4	8.5	8.0	5.4	2.7	7.7	2.9	.	3.0	5.3
	P-Value	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	.	0.7	0.0
	CD (5%)	2.6	6.6	2.8	1.7	0.6	0.9	1.8	1.0	.	1.7	1.2

TABLE No. 1 (Contd.)

Sl	Entry Name	SHELLING %											
		2				3							
		Karnal Ludhiana Pantnagar Zone Mean				Bahraich Bhubaneshwar Dholi Kalyani Ranchi Sabour Varanasi Zone Mean							
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
1	JH 248	80.5	78.7	84.0	81.0	72.0	80.8	83.5	88.2	80.0	73.2	72.7	73.0
2	PM16201L	81.6	84.6	79.4	82.0	81.5	79.5	83.5	86.7	80.0	81.1	76.6	74.3
3	JH 295	80.3	82.3	84.9	82.4	74.8	80.4	82.5	89.3	80.0	68.7	73.8	72.7
4	BLH 116	82.0	83.3	81.9	82.4	76.4	80.9	83.5	89.3	80.0	78.3	75.3	73.0
5	HT 16052	80.2	83.9	83.6	82.6	79.8	80.7	83.0	89.7	80.0	75.5	74.4	74.0
6	BLH 113	81.1	86.1	87.4	84.8	75.0	81.1	80.5	90.5	80.0	77.3	78.3	73.4
7	ADV 7139	78.9	88.4	84.6	84.0	71.0	80.9	81.0	86.3	80.0	74.6	80.5	72.3
8	DAS-MH-903	81.4	85.0	85.2	83.8	78.5	80.4	81.0	89.1	80.0	80.2	80.2	74.0
9	Super 3366	80.7	83.9	84.5	83.0	75.0	80.9	80.0	88.5	80.0	69.1	76.0	73.4
10	CMH 2829	77.6	81.8	80.8	80.1	76.0	81.9	80.0	66.4	80.0	67.3	76.0	69.3
11	ADV 7037	81.2	84.9	87.0	84.3	70.9	80.2	82.0	89.8	80.0	75.8	75.9	72.7
12	IH-1304	80.4	79.1	78.4	79.3	71.2	80.7	80.0	81.6	80.0	77.0	73.0	71.1
13	KWS-8915	79.8	83.2	85.0	82.6	76.9	81.9	81.0	89.9	80.0	84.3	71.4	73.4
14	KH-2124	77.3	85.8	81.1	81.4	73.5	80.3	81.0	87.5	80.0	77.7	76.9	73.2
15	JH 412	80.5	84.7	79.0	81.5	72.7	82.3	86.5	84.7	80.0	75.7	77.4	73.4
16	DAS-MH-904	81.3	86.7	80.6	82.9	74.3	80.5	77.0	92.4	80.0	76.6	80.5	74.1
17	GK3209	81.2	85.7	88.4	85.0	74.3	80.3	81.0	90.5	80.0	82.3	76.7	73.6
18	Rasi 2015	77.4	83.9	81.8	81.0	77.2	80.6	87.0	88.1	80.0	81.3	75.2	74.0
19	DKC 9181(IR8494)	80.9	85.0	84.8	83.5	75.4	79.7	80.0	89.1	80.0	77.6	79.6	73.6
20	JH 273	80.6	79.6	81.7	80.6	77.9	80.7	83.0	86.0	80.0	77.6	74.9	73.5
21	DKC 9188(IR8737)	80.8	84.7	84.3	83.3	74.7	80.3	86.5	89.7	80.0	73.2	76.7	74.2
22	PM16202L	79.3	85.9	82.7	82.7	77.7	80.6	80.0	89.8	80.0	81.8	77.8	73.8
23	IH-031	78.6	82.0	83.9	81.4	69.1	78.3	81.5	88.6	80.0	58.9	79.5	72.4
24	Rasi 1107	80.7	85.3	87.6	84.5	78.8	80.4	79.0	88.7	80.0	76.3	76.8	72.9
25	PM16203L	80.7	83.7	81.9	82.1	80.6	80.3	83.0	87.0	80.0	76.4	75.9	74.4
26	PM16207L	82.0	80.6	81.3	81.3	70.3	78.7	81.0	85.9	80.0	77.2	72.5	71.7
27	KH-1226	83.0	79.6	85.3	82.6	71.4	79.6	80.0	92.6	80.0	84.0	72.8	72.5
28	Star-47	80.2	84.3	77.2	80.7	75.0	80.3	82.0	76.9	80.0	74.2	76.3	70.6
29	MM2033	76.5	80.0	81.6	79.3	74.7	81.0	81.0	85.4	80.0	80.6	74.2	71.9
30	JH 358	81.3	80.6	81.7	81.2	75.9	78.8	79.5	85.7	80.0	76.4	74.5	71.9

TABLE No. 1 (Contd.)

Sl	Entry Name	SHELLING %											
		2				3							
		Karnal Ludhiana Pantnagar Zone Mean				Bahraich Bhubaneshwar Dholi Kalyani Ranchi Sabour Varanasi Zone Mean							
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
31	IH-0712	80.2	80.4	78.9	79.9	69.2	80.3	85.0	88.9	80.0	82.2	71.2	72.4
32	CMH 2725	81.6	81.8	83.2	82.2	78.8	82.0	80.0	83.7	80.0	76.9	72.0	72.3
33	KWS-8933	80.4	84.2	80.8	81.8	77.8	82.2	83.0	88.6	80.0	78.3	72.9	73.0
34	HT 16047	78.4	85.6	84.8	82.9	74.9	81.3	80.0	85.6	80.0	71.5	76.0	72.4
35	PM16204L	80.3	83.4	82.0	81.9	77.8	80.0	80.0	86.7	80.0	76.4	77.5	72.9
36	VNR-32994	79.3	85.6	80.6	81.9	76.8	80.6	79.0	89.8	80.0	73.6	74.0	73.0
37	Star-57	81.9	88.2	83.1	84.4	71.2	80.5	77.0	91.7	80.0	80.3	74.3	72.5
38	BIO 305	79.0	81.4	81.4	80.6	72.9	80.3	80.0	87.5	80.0	70.5	72.4	71.8
39	REH-2014-6	79.6	82.4	81.6	81.2	76.9	80.3	78.0	86.0	80.0	79.4	76.1	72.3
40	IH-0330	79.5	83.5	79.0	80.7	70.0	80.0	80.0	85.4	80.0	80.0	76.2	71.8
41	JH 409	81.2	78.9	84.0	81.3	72.8	79.0	82.0	84.7	80.0	76.8	74.5	71.1
42	PM16206L	81.6	82.0	83.9	82.5	76.1	82.3	79.5	88.2	80.0	69.3	76.4	72.5
43	GK3208	82.7	85.5	85.8	84.6	77.9	80.2	81.0	88.5	80.0	73.2	75.3	73.5
44	PM16205L	82.4	82.7	83.9	83.0	75.6	81.2	81.0	89.5	80.0	77.5	78.6	73.6
45	P3522 (C)	80.9	84.6	85.9	83.8	77.1	80.2	84.0	88.8	80.0	71.7	79.0	73.8
46	Seedtech 2324 (C)	80.0	81.9	81.4	81.1	75.8	82.1	79.0	87.8	80.0	74.2	76.8	72.8
47	Buland (C)	81.4	77.9	79.4	79.6	72.9	80.6	84.0	84.7	80.0	73.0	67.1	70.9
48	Bio 9981 (C)	81.4	82.1	81.7	81.7	77.2	81.8	81.0	87.5	80.0	74.4	73.6	72.9
	General Mean	80.4	83.2	82.8	82.1	75.1	80.6	81.3	87.2	80.0	76.0	75.5	72.8
	CV(%)	1.1	2.2	1.1	1.7	1.7	0.7	2.7	7.2	0.0	2.8	2.5	4.8
	P-Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	.	0.0	0.0	0.3
	CD (5%)	1.5	3.0	1.8	3.3	2.6	1.1	4.5	10.2	0.0	4.3	3.9	2.7

TABLE No. 1 (Contd.)

Sl	Entry Name	SHELLING %										
		4							5		All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean		Zone Mean
1	JH 248	76.4	76.2	74.7	80.0	51.3	77.3	70.6	77.8	80.3	78.9	74.3
2	PM16201L	76.1	83.4	77.9	86.5	54.4	79.5	74.1	80.4	84.2	82.0	76.5
3	JH 295	77.9	79.2	71.5	77.8	55.5	79.0	71.5	77.9	81.4	79.4	74.9
4	BLH 116	81.2	82.7	77.5	83.1	53.0	79.6	74.1	80.7	81.5	81.0	76.0
5	HT 16052	77.1	84.0	78.7	84.1	53.9	79.6	74.1	82.0	80.4	81.2	76.4
6	BLH 113	83.6	86.5	83.2	85.5	55.1	78.6	76.7	80.1	83.3	81.5	77.4
7	ADV 7139	84.9	87.7	81.5	84.4	56.8	81.4	77.5	78.3	87.0	82.1	77.2
8	DAS-MH-903	80.9	85.7	82.4	86.5	55.8	78.3	76.2	80.3	83.4	81.6	77.4
9	Super 3366	82.5	82.6	68.5	76.1	54.9	78.9	72.0	79.8	85.7	82.4	75.6
10	CMH 2829	80.6	82.7	80.9	79.5	51.9	77.4	73.6	81.6	81.3	81.4	74.1
11	ADV 7037	76.4	85.5	78.3	81.4	52.8	81.7	74.0	80.2	82.8	81.3	76.2
12	IH-1304	79.9	81.8	77.3	79.5	49.3	77.3	72.1	76.0	86.6	80.7	73.9
13	KWS-8915	80.9	83.5	76.5	76.1	53.7	79.6	73.2	80.4	80.4	80.4	75.8
14	KH-2124	80.7	86.8	76.5	79.1	55.8	80.1	74.6	79.3	75.2	77.4	75.8
15	JH 412	81.2	82.5	76.6	85.5	55.2	78.8	74.4	81.1	88.0	84.1	76.3
16	DAS-MH-904	82.6	89.1	85.5	87.8	57.7	78.5	78.2	79.8	85.7	82.4	77.9
17	GK3209	81.4	84.5	77.0	86.5	54.5	79.8	75.0	77.9	86.4	81.7	76.9
18	Rasi 2015	81.9	84.1	73.9	81.8	54.6	77.8	73.6	81.6	80.2	80.9	76.0
19	DKC 9181(IR8494)	82.1	87.6	85.0	72.6	54.6	78.3	75.4	80.9	81.4	81.1	76.9
20	JH 273	79.5	79.9	76.5	80.0	52.4	79.6	72.6	78.5	83.1	80.5	75.3
21	DKC 9188(IR8737)	81.0	84.1	79.3	84.9	58.0	79.8	75.8	82.2	79.3	80.9	77.2
22	PM16202L	81.1	84.9	81.3	86.6	54.5	80.8	76.0	80.7	77.4	79.1	76.8
23	IH-031	83.6	84.6	83.3	84.1	52.0	78.4	75.6	75.9	86.1	80.4	75.9
24	Rasi 1107	83.5	85.4	76.9	86.6	55.6	78.7	75.5	81.9	83.9	82.7	76.9
25	PM16203L	78.3	84.3	80.2	81.4	49.8	81.6	73.9	80.8	82.1	81.3	76.4
26	PM16207L	79.1	78.1	75.2	82.8	58.7	77.3	73.2	82.5	80.2	81.4	75.0
27	KH-1226	81.0	83.8	72.6	82.8	52.5	78.8	73.0	79.3	81.6	80.2	75.3
28	Star-47	80.6	83.6	80.1	82.8	55.2	78.5	74.8	80.4	79.4	79.9	74.9
29	MM2033	81.6	79.9	77.1	79.6	53.7	79.8	73.3	79.4	81.6	80.4	74.6
30	JH 358	82.3	82.4	79.5	83.0	48.6	80.7	73.9	79.5	83.4	81.2	75.2

TABLE No. 1 (Contd.)

Sl	Entry Name	SHELLING %										
		4						5		All India Mean		
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Zone Mean	Banswara Mean	Godhra Zone Mean			
31	IH-0712	77.5	82.4	75.2	84.2	51.0	77.7	72.4	78.8	87.0	82.4	74.7
32	CMH 2725	81.9	80.1	77.2	82.9	54.4	78.4	73.7	78.2	87.1	82.1	75.6
33	KWS-8933	80.3	82.3	74.4	88.7	57.6	81.5	75.1	79.5	86.9	82.7	76.3
34	HT 16047	79.3	83.4	78.3	82.4	56.1	79.9	74.6	82.5	76.6	79.8	75.9
35	PM16204L	81.1	86.0	81.6	84.6	55.2	78.0	75.7	79.0	86.3	82.2	76.5
36	VNR-32994	78.8	82.1	77.3	83.0	57.8	81.0	74.7	80.2	80.4	80.2	76.0
37	Star-57	82.4	84.0	79.5	86.4	54.1	79.3	75.4	80.3	81.3	80.7	76.5
38	BIO 305	77.2	81.5	75.9	83.6	56.9	78.8	73.6	79.7	86.3	82.6	75.1
39	REH-2014-6	78.6	81.6	78.0	78.1	55.2	79.0	73.3	80.7	81.9	81.1	75.2
40	IH-0330	80.2	84.6	81.2	85.1	57.9	77.5	75.8	76.7	79.6	77.9	75.5
41	JH 409	79.8	78.1	72.0	73.0	52.4	78.1	70.5	81.1	84.2	82.4	74.0
42	PM16206L	82.8	83.7	79.2	84.7	56.5	78.8	75.6	81.0	85.7	83.0	76.4
43	GK3208	81.6	85.4	78.5	83.7	57.2	78.6	75.5	78.9	81.3	79.9	76.9
44	PM16205L	82.2	83.7	85.0	85.9	50.2	76.6	75.1	80.6	82.8	81.5	76.7
45	P3522 (C)	81.6	84.5	81.8	85.4	49.3	78.3	74.6	82.4	86.6	84.2	76.9
46	Seedtech 2324 (C)	78.3	83.5	81.1	84.7	54.7	79.0	74.8	75.6	80.4	77.7	75.6
47	Buland (C)	81.5	78.8	73.1	81.3	52.0	76.7	71.7	78.8	75.2	77.1	73.5
48	Bio 9981 (C)	82.8	81.6	78.6	81.1	56.3	79.0	74.7	80.8	85.0	82.6	76.1
	General Mean	80.6	83.2	78.2	82.6	54.3	79.0	74.3	79.8	82.7	81.0	75.9
	CV(%)	1.9	1.7	3.5	.	5.3	1.2	3.1	2.3	.	2.2	3.6
	P-Value	0.0	0.0	0.0	.	0.0	0.0	0.0	0.0	.	0.9	0.0
	CD (5%)	3.0	2.8	4.4	.	4.7	1.9	2.8	3.6	.	5.5	1.6

TABLE No. 1 (Contd.)

Sl	Entry Name	STAND AT HARVEST											
		2				3							
		Karnal Ludhiana Pantnagar Zone Mean				Bahraich Bhubaneshwar Dholi Kalyani Ranchi Sabour				Varanasi Zone Mean			
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
1	JH 248	62.8	71.3	62.8	65.6	61.8	64.6	48.9	71.1	69.6	83.3	78.5	68.2
2	PM16201L	58.3	78.9	65.6	67.6	66.7	60.4	56.1	70.0	63.4	83.3	81.9	68.9
3	JH 295	66.1	73.2	65.0	68.1	59.7	61.8	62.2	67.2	64.3	83.3	79.2	68.3
4	BLH 116	59.4	77.0	66.1	67.5	59.0	60.4	55.6	71.1	62.5	82.6	72.9	66.3
5	HT 16052	65.0	79.6	64.4	69.7	69.4	62.5	62.2	70.0	67.9	81.9	82.6	71.0
6	BLH 113	61.7	62.5	64.4	62.9	59.7	62.5	65.0	66.7	68.8	83.3	79.2	69.3
7	ADV 7139	62.2	73.2	61.7	65.7	75.7	63.2	50.6	68.9	70.5	82.6	78.5	69.9
8	DAS-MH-903	60.6	79.6	66.1	68.7	66.7	62.5	66.7	67.8	67.9	83.3	82.6	71.1
9	Super 3366	60.0	68.8	65.0	64.6	70.8	61.8	55.0	67.8	61.6	81.3	76.4	67.9
10	CMH 2829	61.7	71.3	65.6	66.2	73.6	63.2	55.6	67.2	62.5	83.3	79.9	69.4
11	ADV 7037	60.0	73.2	64.4	65.9	70.8	61.8	50.6	67.8	62.5	83.3	81.3	68.4
12	IH-1304	60.6	77.0	63.3	67.0	61.1	63.2	53.9	66.7	69.6	83.3	81.3	68.4
13	KWS-8915	62.2	73.9	62.8	66.3	66.7	62.5	64.4	68.9	64.3	83.3	76.4	69.6
14	KH-2124	64.4	76.4	61.7	67.5	70.8	62.5	52.2	60.6	67.0	82.6	81.9	68.2
15	JH 412	61.1	64.4	56.7	60.7	63.2	63.9	70.6	62.8	63.4	82.6	76.4	69.0
16	DAS-MH-904	62.8	78.9	65.0	68.9	68.8	66.0	47.8	67.2	67.9	76.4	75.7	67.0
17	GK3209	63.3	72.6	64.4	66.8	65.3	65.3	63.3	68.3	67.0	83.3	79.9	70.4
18	Rasi 2015	57.2	76.4	65.0	66.2	60.4	63.9	60.6	70.0	63.4	83.3	81.3	69.0
19	DKC 9181(IR8494)	60.0	77.0	63.9	67.0	65.3	66.0	62.2	67.8	66.1	81.9	78.5	69.7
20	JH 273	63.3	75.1	64.4	67.6	75.7	65.3	48.9	67.2	64.3	83.3	69.4	67.8
21	DKC 9188(IR8737)	62.8	64.4	65.0	64.1	73.6	62.5	60.0	68.9	62.5	83.3	81.9	70.5
22	PM16202L	60.0	77.7	63.3	67.0	70.8	61.8	55.6	69.4	62.5	83.3	79.2	69.0
23	IH-031	61.7	58.1	63.9	61.2	59.7	60.4	61.1	62.8	69.6	83.3	79.2	67.9
24	Rasi 1107	60.6	78.3	58.9	65.9	71.5	64.6	57.8	67.8	63.4	79.9	75.7	68.7
25	PM16203L	60.6	73.2	61.7	65.2	65.3	61.8	53.9	67.2	68.8	83.3	80.6	68.6

TABLE No. 1 (Contd.)

Sl	Entry Name	STAND AT HARVEST											
		2				3							
		Karnal Ludhiana Pantnagar Zone Mean				Bahraich Bhubaneshwar		Dholi Kalyani		Ranchi Sabour		Varanasi Zone Mean	
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
26	PM16207L	63.9	70.1	62.2	65.4	61.1	61.8	56.1	66.1	61.6	83.3	81.3	67.4
27	KH-1226	63.3	76.4	64.4	68.1	66.7	62.5	40.0	67.2	65.2	80.6	76.4	65.5
28	Star-47	59.4	72.0	63.9	65.1	72.9	62.5	55.0	65.0	67.9	83.3	77.1	69.1
29	MM2033	60.0	75.1	65.0	66.7	73.6	62.5	62.2	63.3	70.5	81.9	80.6	70.6
30	JH 358	60.6	72.6	61.7	64.9	66.7	62.5	50.0	66.1	66.1	83.3	80.6	67.9
31	IH-0712	56.1	65.7	64.4	62.1	56.3	60.4	45.0	61.1	69.6	83.3	78.5	64.7
32	CMH 2725	62.8	77.7	62.2	67.6	73.6	61.8	48.9	67.8	64.3	83.3	75.0	67.8
33	KWS-8933	60.0	75.8	62.8	66.2	68.1	63.2	63.3	68.9	72.3	83.3	74.3	70.4
34	HT 16047	60.6	74.5	64.4	66.5	66.7	62.5	59.4	68.3	67.7	82.6	77.8	69.3
35	PM16204L	58.3	70.7	63.9	64.3	66.7	62.5	60.0	68.3	68.8	83.3	79.2	69.8
36	VNR-32994	63.3	63.8	62.2	63.1	73.6	61.1	56.1	67.8	63.4	83.3	79.9	69.4
37	Star-57	62.8	77.0	62.8	67.5	62.5	63.2	58.9	67.8	67.9	83.3	75.7	68.4
38	BIO 305	60.0	73.2	65.0	66.1	66.7	63.2	47.8	66.7	62.5	83.3	75.0	66.5
39	REH-2014-6	56.7	58.1	53.9	56.2	59.7	62.5	47.2	63.9	63.4	83.3	78.5	65.5
40	IH-0330	61.7	67.6	54.4	61.2	66.0	63.2	57.8	66.7	62.5	83.3	66.7	66.6
41	JH 409	61.7	70.7	64.4	65.6	70.8	61.8	45.0	60.6	66.1	83.3	72.2	65.6
42	PM16206L	62.2	78.9	64.4	68.5	63.9	62.5	62.8	68.3	60.7	83.3	73.6	68.0
43	GK3208	65.0	75.8	62.8	67.9	72.2	62.5	48.9	65.6	66.1	83.3	79.2	68.2
44	PM16205L	61.7	79.6	65.0	68.7	71.5	59.7	61.1	67.8	67.0	82.6	81.9	70.3
45	P3522 (C)	60.0	75.8	64.4	66.7	63.2	64.6	60.0	70.0	65.2	83.3	75.0	68.8
46	Seedtech 2324 (C)	56.1	78.3	64.4	66.3	70.1	62.5	59.4	65.0	63.4	82.6	79.2	69.0
47	Buland (C)	57.8	70.1	63.9	63.9	69.4	63.2	62.8	67.8	65.2	81.9	74.3	69.3
48	Bio 9981 (C)	63.9	76.4	63.9	68.1	66.0	61.1	56.1	68.9	67.0	83.3	81.3	69.1
	General Mean	61.2	73.1	63.3	65.8	67.1	62.7	56.3	67.1	65.8	82.8	78.0	68.5
	CV(%)	5.6	9.9	4.0	7.4	5.8	4.2	8.5	6.1	5.1	2.1	5.3	5.3
	P-Value	0.1	0.0	0.0	0.0	0.0	0.7	0.0	0.3	0.1	0.1	0.0	0.3
	CD (5%)	5.5	11.7	4.1	5.5	6.4	4.2	7.8	6.6	6.8	2.8	6.7	3.9

TABLE No. 1 (Contd.)

Sl	Entry Name	STAND AT HARVEST										
		4							5		All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean		
1	JH 248	65.3	63.2	62.8	60.6	57.2	57.6	61.1	65.3	67.7	66.3	65.2
2	PM16201L	66.0	73.6	57.8	60.0	59.4	59.0	62.6	75.0	81.3	77.7	67.5
3	JH 295	66.0	72.2	60.0	59.4	55.6	59.0	62.0	68.8	77.1	72.3	66.6
4	BLH 116	66.0	70.8	62.8	63.9	58.3	62.5	64.1	71.5	72.9	72.1	66.4
5	HT 16052	65.3	63.2	56.7	60.0	55.6	61.8	60.4	70.1	65.6	68.2	66.9
6	BLH 113	63.9	66.0	59.4	61.1	58.3	57.6	61.1	64.6	71.9	67.7	65.3
7	ADV 7139	66.0	67.4	60.6	59.4	56.1	62.5	62.0	65.3	70.8	67.6	66.3
8	DAS-MH-903	65.3	64.6	59.4	56.7	57.2	58.3	60.3	69.4	76.0	72.2	67.2
9	Super 3366	65.3	72.2	61.1	57.8	57.8	59.0	62.2	77.1	64.6	71.8	65.9
10	CMH 2829	64.6	70.8	54.4	61.7	56.1	57.6	60.9	64.6	72.9	68.1	65.9
11	ADV 7037	65.3	73.6	57.8	56.1	55.0	59.7	61.3	65.3	71.9	68.1	65.6
12	IH-1304	66.7	66.0	56.7	55.0	56.1	54.9	59.2	70.1	64.6	67.8	65.0
13	KWS-8915	67.4	75.3	59.4	56.1	57.8	62.5	62.9	70.1	64.6	67.8	66.6
14	KH-2124	67.4	68.1	48.3	58.3	56.1	59.7	59.7	65.3	64.6	65.0	64.9
15	JH 412	66.0	63.2	52.2	56.7	57.2	55.6	58.5	81.9	63.5	74.2	64.6
16	DAS-MH-904	63.9	70.8	62.2	61.1	58.3	59.0	62.6	66.0	67.7	66.7	65.9
17	GK3209	67.4	70.8	59.4	57.8	56.7	61.1	62.2	75.0	76.0	75.5	67.6
18	Rasi 2015	64.6	71.5	59.4	63.3	54.4	56.3	61.6	75.0	77.1	75.9	66.8
19	DKC 9181(IR8494)	65.3	75.0	51.7	58.3	56.1	59.7	61.0	75.0	74.0	74.6	66.9
20	JH 273	66.0	65.3	62.8	60.0	57.8	60.4	62.0	71.5	64.6	68.6	65.9
21	DKC 9188(IR8737)	66.7	74.3	60.0	55.0	56.1	60.4	62.1	77.1	80.2	78.4	67.4
22	PM16202L	68.1	70.8	62.8	62.2	57.8	63.2	64.1	75.0	72.9	74.1	67.6
23	IH-031	62.5	68.8	55.0	53.3	56.1	55.6	58.5	70.8	67.7	69.5	63.8
24	Rasi 1107	61.8	63.2	58.9	62.2	56.7	57.6	60.1	66.7	81.3	72.9	65.8
25	PM16203L	64.6	73.6	61.7	56.1	57.8	63.2	62.8	66.7	66.7	66.7	65.9

TABLE No. 1 (Contd.)

Sl	Entry Name	STAND AT HARVEST										
		4							5		All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean		Zone Mean
26	PM16207L	67.4	68.1	62.2	60.0	58.9	58.3	62.5	81.3	68.8	76.0	66.3
27	KH-1226	65.3	55.6	61.1	56.1	56.7	61.1	59.3	65.3	68.8	66.8	64.0
28	Star-47	62.5	65.3	60.6	58.9	57.8	59.0	60.7	72.2	71.9	72.1	65.9
29	MM2033	63.2	66.7	59.4	59.4	56.1	61.1	61.0	75.0	64.6	70.6	66.7
30	JH 358	61.8	64.6	63.3	54.4	55.6	61.1	60.1	59.0	74.0	65.4	64.6
31	IH-0712	64.6	63.9	53.9	56.1	56.7	59.0	59.0	72.9	68.8	71.2	63.0
32	CMH 2725	66.0	66.0	61.1	57.2	57.2	61.1	61.4	68.8	71.9	70.1	65.9
33	KWS-8933	65.3	69.4	60.6	56.7	57.2	59.7	61.5	80.6	72.9	77.3	67.4
34	HT 16047	65.3	69.4	59.4	58.3	60.0	62.5	62.5	66.0	68.8	67.2	66.4
35	PM16204L	63.2	70.1	61.7	61.1	56.1	58.3	61.8	75.7	69.8	73.2	66.5
36	VNR-32994	66.7	72.9	56.1	56.7	56.7	63.9	62.2	72.2	78.1	74.7	66.5
37	Star-57	64.6	63.2	62.2	55.0	57.2	58.3	60.1	67.4	70.8	68.8	65.6
38	BIO 305	66.0	70.8	62.2	61.1	58.9	58.3	62.9	73.6	70.8	72.4	65.9
39	REH-2014-6	63.2	54.9	56.1	56.1	56.7	59.0	57.7	63.9	65.6	64.6	61.2
40	IH-0330	66.0	59.7	56.1	57.8	56.7	54.9	58.5	61.8	51.0	57.3	62.0
41	JH 409	63.9	63.9	54.4	56.1	55.6	56.3	58.4	81.9	64.6	74.6	64.1
42	PM16206L	64.6	68.1	59.4	58.9	58.9	56.9	61.1	75.7	70.8	73.7	66.4
43	GK3208	66.7	68.1	57.8	57.8	56.1	59.7	61.0	65.3	65.6	65.4	65.5
44	PM16205L	62.5	69.4	61.1	59.4	56.7	54.9	60.7	73.6	64.6	69.8	66.7
45	P3522 (C)	64.6	66.0	61.7	60.0	58.3	61.1	61.9	66.0	70.8	68.0	66.1
46	Seedtech 2324 (C)	63.9	68.1	56.7	58.3	56.7	56.3	60.0	62.5	68.8	65.2	65.2
47	Buland (C)	66.0	66.0	55.6	57.8	57.2	53.5	59.3	75.7	64.6	71.0	65.2
48	Bio 9981 (C)	65.3	65.3	62.8	62.2	57.8	58.3	61.9	68.1	70.8	69.2	66.6
	General Mean	65.1	67.7	58.9	58.5	57.0	59.1	61.1	70.6	69.9	70.3	65.8
	CV(%)	4.5	10.2	4.9	3.9	3.8	4.7	6.0	11.0	8.1	10.2	6.6
	P-Value	0.8	0.1	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.2	0.0
	CD (5%)	4.7	11.1	4.7	3.7	3.5	4.5	3.0	12.6	11.4	10.4	2.3

TABLE No. 1 (Contd.)

Sl	Entry Name	DAYS TO 50% POLLEN SHED											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	JH 248	124.3	83.0	112.3	106.6	121.7	73.3	115.0	87.0	87.0	105.3	109.0	99.7
2	PM16201L	126.3	82.3	112.3	107.0	119.7	73.0	116.3	84.3	82.5	104.0	109.0	98.4
3	JH 295	123.0	84.7	113.0	106.9	121.7	77.3	116.7	85.0	83.0	100.0	109.3	99.0
4	BLH 116	119.7	81.0	110.3	103.7	121.3	79.3	114.0	86.3	83.0	105.7	105.7	99.4
5	HT 16052	125.0	82.7	109.3	105.7	121.7	78.7	116.3	87.7	85.0	106.3	106.7	100.3
6	BLH 113	126.3	83.0	113.0	107.4	120.7	79.0	116.3	84.7	83.5	99.7	109.3	99.0
7	ADV 7139	125.3	82.0	113.7	107.0	118.7	77.7	116.7	85.7	84.0	103.3	109.3	99.3
8	DAS-MH-903	123.7	80.3	109.3	104.4	114.7	71.0	111.7	82.3	82.5	101.0	104.7	95.4
9	Super 3366	126.3	84.7	112.7	107.9	120.3	78.0	117.3	88.3	83.0	105.3	106.3	99.8
10	CMH 2829	121.7	82.0	107.7	103.8	115.7	71.0	114.3	82.7	81.5	105.3	106.7	96.7
11	ADV 7037	125.3	84.3	114.7	108.1	124.7	78.0	118.0	87.7	88.0	107.0	109.7	101.8
12	IH-1304	118.3	76.3	102.3	99.0	116.3	71.0	111.3	77.7	76.0	104.0	96.7	93.3
13	KWS-8915	127.3	85.7	112.0	108.3	122.7	74.0	121.3	85.7	87.0	104.7	110.3	100.8
14	KH-2124	126.0	81.7	110.3	106.0	122.0	72.0	114.0	88.7	86.0	104.0	108.3	99.2
15	JH 412	124.7	83.7	113.7	107.3	122.7	73.0	115.3	85.7	86.0	106.7	111.0	100.0
16	DAS-MH-904	118.3	82.7	107.3	102.8	116.0	73.0	113.7	80.3	83.0	107.3	102.7	96.5
17	GK3209	126.0	82.0	107.3	105.1	116.7	73.0	113.3	84.3	82.5	107.0	104.7	97.3
18	Rasi 2015	119.7	83.7	112.0	105.1	122.7	73.0	116.0	87.3	83.0	106.0	110.3	99.8
19	DKC 9181(IR8494)	127.3	83.3	112.7	107.8	123.7	78.0	116.0	87.0	84.5	104.3	110.0	100.5
20	JH 273	120.0	82.0	112.0	104.7	119.7	78.0	115.7	85.7	85.0	107.7	109.7	100.2
21	DKC 9188(IR8737)	125.7	83.3	111.3	106.8	121.7	78.0	117.7	88.7	83.0	106.0	108.7	100.6
22	PM16202L	122.3	79.0	106.7	102.7	117.7	77.0	110.3	81.3	80.0	107.0	104.7	96.9
23	IH-031	124.0	74.7	102.3	100.3	115.0	72.0	108.0	76.0	72.0	108.3	97.3	92.8
24	Rasi 1107	123.3	82.7	111.7	105.9	120.7	74.7	113.7	86.3	84.0	103.7	108.0	98.7
25	PM16203L	117.7	80.7	108.3	102.2	115.7	76.7	113.3	81.0	82.0	108.3	104.7	97.4
26	PM16207L	125.7	82.7	109.0	105.8	120.7	73.0	114.7	86.0	83.0	109.0	107.0	99.1
27	KH-1226	125.0	82.7	111.0	106.2	122.7	74.0	116.0	86.3	81.5	105.7	107.3	99.1
28	Star-47	120.3	79.0	106.7	102.0	114.7	72.0	109.7	81.7	79.5	106.3	103.0	95.3
29	MM2033	121.7	83.7	112.7	106.0	124.7	73.0	119.7	88.0	87.0	104.0	111.0	101.0
30	JH 358	115.3	80.3	108.7	101.4	120.7	76.0	115.7	83.3	80.5	103.7	105.7	98.0

TABLE No. 1 (Contd.)

Sl	Entry Name	DAYS TO 50% POLLEN SHED											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
31	IH-0712	125.7	76.0	97.0	99.6	111.7	73.0	104.3	70.7	69.0	105.7	90.3	89.3
32	CMH 2725	125.3	82.3	111.3	106.3	122.3	74.7	117.0	86.7	85.5	105.3	110.3	100.3
33	KWS-8933	127.7	86.3	114.0	109.3	121.7	74.0	117.7	88.3	85.5	101.7	110.7	99.9
34	HT 16047	123.3	82.0	108.7	104.7	119.7	78.3	113.7	86.7	81.8	100.7	106.3	98.2
35	PM16204L	124.0	81.7	105.7	103.8	120.7	75.0	113.7	80.7	82.0	104.7	102.3	97.0
36	VNR-32994	120.7	83.7	113.0	105.8	122.7	72.0	118.0	86.3	86.0	106.0	109.7	100.1
37	Star-57	122.3	82.0	109.7	104.7	121.7	71.3	114.3	78.7	81.5	107.0	105.0	97.1
38	BIO 305	120.0	83.0	107.3	103.4	119.7	72.0	116.3	83.0	82.0	105.7	107.7	98.1
39	REH-2014-6	124.7	82.3	112.3	106.4	121.7	74.3	115.3	85.3	83.0	108.0	106.7	99.2
40	IH-0330	118.3	75.0	96.7	96.7	107.7	71.3	107.3	73.0	71.5	108.0	92.3	90.2
41	JH 409	124.3	84.7	116.7	108.6	125.7	78.0	119.0	89.3	87.0	103.3	113.3	102.2
42	PM16206L	117.7	81.7	107.7	102.3	118.7	77.7	114.3	84.7	81.5	104.0	106.3	98.2
43	GK3208	120.3	82.0	104.7	102.3	118.7	75.0	117.0	84.0	81.5	99.3	106.3	97.4
44	PM16205L	120.7	81.3	109.7	103.9	117.7	74.3	114.7	86.0	82.0	96.7	104.7	96.6
45	P3522 (C)	126.0	82.7	111.0	106.6	120.7	73.0	117.3	86.7	84.0	102.0	109.7	99.0
46	Seedtech 2324 (C)	123.7	82.7	112.3	106.2	120.7	73.0	113.0	86.3	80.5	104.7	106.3	97.8
47	Buland (C)	125.0	84.7	112.7	107.4	122.7	72.7	119.3	88.7	86.0	100.0	108.7	99.7
48	Bio 9981 (C)	120.0	81.0	106.7	102.6	115.7	73.0	114.3	82.3	79.0	107.3	105.3	96.8
	General Mean	123.0	82.0	109.7	104.9	119.7	74.6	114.9	84.4	82.5	104.7	106.4	98.2
	CV(%)	1.3	2.1	2.7	2.1	1.4	1.5	2.0	2.1	1.4	4.4	0.7	2.4
	P-Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
	CD (5%)	2.7	2.8	4.7	3.7	2.7	1.9	3.7	2.9	2.3	7.5	1.2	2.7

TABLE No. 1 (Contd.)

Sl	Entry Name	DAYS TO 50% POLLEN SHED										
		4							5		All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean		Zone Mean
1	JH 248	59.3	75.0	67.3	79.0	78.3	55.3	69.1	91.3	80.5	86.0	89.1
2	PM16201L	59.0	75.0	69.7	75.0	76.7	55.7	68.5	93.0	85.0	89.0	88.8
3	JH 295	60.7	74.7	69.0	79.0	77.0	56.7	69.5	94.0	80.0	87.1	89.2
4	BLH 116	58.0	71.0	67.3	75.0	75.3	55.3	67.0	91.7	77.5	84.7	87.7
5	HT 16052	59.3	72.3	67.3	86.0	76.3	56.0	69.6	90.7	85.5	88.1	89.6
6	BLH 113	57.3	72.0	66.7	74.0	76.0	55.0	66.8	87.7	84.5	86.0	88.2
7	ADV 7139	58.7	73.7	68.0	75.0	76.3	54.7	67.7	91.0	85.0	88.0	88.8
8	DAS-MH-903	56.7	70.0	66.0	70.0	76.3	55.7	65.8	87.3	80.5	83.9	85.7
9	Super 3366	57.7	73.0	67.7	78.0	78.0	55.3	68.3	89.7	86.5	88.0	89.3
10	CMH 2829	56.3	71.3	67.0	75.0	76.0	54.0	66.6	89.7	80.0	84.9	86.6
11	ADV 7037	62.7	73.0	72.3	86.0	79.3	56.7	71.7	94.3	88.0	91.2	91.6
12	IH-1304	55.3	67.3	66.0	75.0	79.0	53.3	66.0	88.3	73.0	80.8	83.8
13	KWS-8915	63.3	73.7	71.7	84.0	79.3	56.7	71.5	92.7	84.5	88.6	90.9
14	KH-2124	60.0	74.3	67.3	81.0	78.0	56.3	69.5	95.0	84.5	89.8	89.4
15	JH 412	63.0	77.3	71.0	75.0	78.3	57.3	70.3	92.7	87.5	90.1	90.2
16	DAS-MH-904	56.0	70.0	67.0	78.0	77.0	53.7	66.9	87.7	77.0	82.4	86.2
17	GK3209	57.7	72.3	66.7	75.0	76.0	56.0	67.3	88.7	82.0	85.3	87.3
18	Rasi 2015	58.0	75.0	67.3	71.0	77.7	53.7	67.1	88.7	83.0	85.8	88.2
19	DKC 9181(IR8494)	59.3	71.7	69.0	75.0	76.3	53.7	67.5	88.7	80.5	84.6	89.0
20	JH 273	60.0	73.3	66.3	83.0	77.7	57.0	69.6	89.0	84.5	86.7	89.2
21	DKC 9188(IR8737)	58.0	72.7	70.3	75.0	77.7	56.3	68.3	87.0	84.5	85.7	89.2
22	PM16202L	56.0	71.3	67.0	69.0	75.7	53.3	65.4	87.7	80.0	83.8	85.9
23	IH-031	54.3	66.0	66.3	67.0	76.3	53.3	63.9	87.7	79.0	83.4	83.3
24	Rasi 1107	59.3	73.7	67.0	74.0	76.7	53.7	67.4	89.7	80.0	84.9	87.9
25	PM16203L	56.7	70.7	66.7	75.0	75.3	55.3	66.6	89.0	79.0	84.0	86.5
26	PM16207L	57.3	73.0	67.7	71.0	76.3	54.7	66.7	87.3	84.0	85.6	87.9
27	KH-1226	58.3	73.7	67.0	76.0	78.0	54.7	67.9	89.7	87.0	88.3	88.7
28	Star-47	56.3	71.0	67.3	74.0	75.0	53.3	66.2	89.0	78.0	83.6	85.4
29	MM2033	62.7	75.7	70.7	86.0	78.0	55.0	71.3	93.7	85.5	89.6	90.7
30	JH 358	57.7	71.7	66.7	79.0	76.0	57.0	68.0	85.3	78.0	81.7	86.8

TABLE No. 1 (Contd.)

Sl	Entry Name	DAYS TO 50% POLLEN SHED										
		4						5			All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Vagarai Zone Mean	Banswara Mean	Godhra Mean	Zone Mean			
31	IH-0712	54.0	65.0	65.3	68.0	74.3	53.3	63.3	84.7	70.0	77.4	81.1
32	CMH 2725	59.7	74.0	67.0	79.0	76.3	56.7	68.8	94.7	81.5	88.2	89.4
33	KWS-8933	61.0	74.7	71.7	79.0	79.0	55.7	70.2	93.0	87.5	90.2	90.5
34	HT 16047	57.7	71.7	66.7	79.0	75.0	55.3	67.6	88.3	83.0	85.6	87.7
35	PM16204L	59.0	72.3	67.3	78.0	75.3	53.7	67.6	89.0	80.0	84.5	87.0
36	VNR-32994	60.0	74.3	71.3	79.0	78.3	57.3	70.1	88.7	84.5	86.5	89.5
37	Star-57	57.0	72.0	65.7	76.0	76.7	56.3	67.3	87.3	80.0	83.7	86.9
38	BIO 305	56.7	72.0	66.3	73.0	75.3	55.3	66.4	90.0	86.0	88.0	87.3
39	REH-2014-6	62.3	75.0	68.3	76.0	77.7	54.0	68.9	94.3	84.5	89.5	89.2
40	IH-0330	54.7	65.3	66.0	69.0	77.7	54.3	64.5	86.7	71.0	78.9	81.5
41	JH 409	64.0	80.3	72.0	86.0	79.7	58.3	73.4	94.3	87.5	90.9	92.4
42	PM16206L	58.7	71.3	66.7	75.0	75.0	55.3	67.0	88.0	76.0	82.1	86.7
43	GK3208	58.0	71.7	67.0	77.0	75.3	57.0	67.7	89.0	84.0	86.5	87.1
44	PM16205L	59.0	71.0	66.0	76.0	74.0	56.3	67.1	87.0	76.0	81.6	86.3
45	P3522 (C)	58.7	73.3	71.7	74.0	77.0	56.0	68.4	88.0	84.0	86.0	88.6
46	Seedtech 2324 (C)	59.0	73.7	66.3	75.0	76.0	56.3	67.7	90.0	82.0	86.0	87.9
47	Buland (C)	59.7	78.0	71.7	79.0	78.3	57.3	70.7	89.3	86.0	87.6	90.0
48	Bio 9981 (C)	57.7	71.3	66.3	75.0	75.3	54.7	66.7	88.7	81.0	84.8	86.4
	General Mean	58.6	72.5	67.9	76.4	76.8	55.4	67.9	89.8	81.9	85.8	87.8
	CV(%)	1.4	2.5	1.2	0.5	1.7	1.3	1.6	1.9	0.7	1.7	2.1
	P-Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	1.4	2.9	1.4	0.6	2.2	1.2	2.2	2.8	1.1	5.0	1.5

TABLE No. 1 (Contd.)

Sl	Entry Name	DAYS TO 50% SILK											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	JH 248	127.7	84.7	115.3	109.2	123.7	76.0	117.0	89.3	90.5	109.0	112.7	102.5
2	PM16201L	129.7	83.3	114.3	109.1	122.0	76.0	118.3	86.7	86.0	108.3	111.7	101.3
3	JH 295	126.3	86.3	116.0	109.6	124.0	80.3	118.7	87.7	87.5	105.0	114.3	102.5
4	BLH 116	123.0	82.3	113.7	106.3	123.0	82.3	116.0	89.0	86.5	109.3	110.3	102.4
5	HT 16052	128.7	83.7	112.3	108.2	123.3	81.7	117.7	89.7	87.5	109.7	110.3	102.8
6	BLH 113	126.3	84.0	116.0	108.8	122.7	82.0	118.3	87.0	86.0	104.3	112.0	101.8
7	ADV 7139	128.7	83.0	116.7	109.4	120.7	80.7	118.7	88.0	88.5	107.0	114.3	102.5
8	DAS-MH-903	126.7	81.7	112.3	106.9	117.0	74.0	113.7	84.7	85.5	105.0	108.0	98.2
9	Super 3366	129.7	86.7	115.7	110.7	122.0	81.0	119.3	90.7	87.0	110.3	110.3	103.0
10	CMH 2829	125.3	84.0	111.7	107.0	117.3	74.0	116.3	84.7	86.0	108.7	110.0	99.6
11	ADV 7037	129.0	86.7	117.7	111.1	126.0	81.3	120.0	89.7	92.0	110.7	114.3	104.8
12	IH-1304	122.0	78.0	105.7	101.9	118.7	74.0	113.3	79.7	81.5	107.3	102.7	96.7
13	KWS-8915	130.7	88.3	115.0	111.3	125.0	77.0	123.3	88.0	91.0	108.3	115.7	104.0
14	KH-2124	129.7	82.7	113.3	108.6	124.7	75.0	116.7	91.0	88.5	107.7	111.0	102.1
15	JH 412	127.7	84.7	116.7	109.7	125.3	76.0	118.3	88.3	88.5	110.7	115.7	103.3
16	DAS-MH-904	121.7	84.3	110.3	105.4	117.7	76.0	115.7	82.7	86.0	111.7	106.0	99.4
17	GK3209	129.3	83.3	110.7	107.8	119.3	76.0	115.7	86.7	86.5	110.3	108.3	100.4
18	Rasi 2015	123.0	85.0	115.3	107.8	124.7	76.0	118.3	90.0	85.0	110.0	115.0	102.8
19	DKC 9181(IR8494)	130.3	84.3	115.7	110.1	125.7	81.0	118.0	89.3	87.0	108.0	113.3	103.2
20	JH 273	123.0	83.3	115.0	107.1	121.7	81.0	117.7	88.0	87.5	112.3	112.7	103.0
21	DKC 9188(IR8737)	129.0	84.3	113.7	109.0	123.7	81.0	119.7	91.0	86.0	109.0	112.0	103.2
22	PM16202L	126.0	79.3	110.0	105.1	119.7	80.3	112.3	83.7	83.5	112.0	107.3	99.9
23	IH-031	127.3	75.7	105.0	102.7	117.7	75.0	110.0	78.7	77.0	112.7	102.0	96.2
24	Rasi 1107	126.7	83.7	114.7	108.3	123.0	76.0	115.7	88.7	86.0	108.7	110.7	101.2
25	PM16203L	121.0	82.3	112.0	105.1	117.7	79.7	115.3	83.7	85.0	112.7	109.3	100.5
26	PM16207L	129.0	83.7	111.7	108.1	123.0	76.0	116.7	88.7	85.0	113.0	110.0	101.8
27	KH-1226	128.0	84.3	114.3	108.9	125.3	77.0	118.3	89.0	86.0	109.7	111.7	102.5
28	Star-47	124.0	79.3	109.7	104.3	117.3	75.0	111.7	84.0	83.0	109.0	105.7	98.0
29	MM2033	125.0	85.0	115.7	108.6	126.7	76.0	121.7	90.3	90.5	108.7	114.7	104.1
30	JH 358	118.7	81.3	111.7	103.9	123.0	79.0	117.7	86.0	85.0	107.3	109.7	101.1

TABLE No. 1 (Contd.)

Sl	Entry Name	DAYS TO 50% SILK											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
31	IH-0712	129.3	74.0	100.0	101.1	113.3	76.0	106.7	73.0	74.5	109.3	96.0	92.7
32	CMH 2725	128.3	83.7	114.3	108.8	124.3	76.0	119.0	88.7	88.5	109.7	113.7	102.8
33	KWS-8933	130.7	87.7	117.0	111.8	124.0	77.0	119.7	90.3	91.5	106.3	115.7	103.5
34	HT 16047	126.3	84.7	112.0	107.7	122.0	81.3	115.7	89.0	85.8	106.3	111.0	101.6
35	PM16204L	127.7	82.7	109.7	106.7	121.7	78.0	115.7	83.3	85.0	108.3	105.7	99.7
36	VNR-32994	123.7	85.0	116.3	108.3	124.3	75.0	120.0	89.0	89.0	110.0	112.7	102.8
37	Star-57	125.7	83.3	112.7	107.2	124.3	74.3	116.3	81.3	84.0	111.0	109.3	100.1
38	BIO 305	123.0	84.7	110.3	106.0	122.0	75.0	118.3	85.3	85.0	110.3	110.7	101.0
39	REH-2014-6	127.7	83.3	115.3	108.8	124.7	77.3	117.3	87.7	87.5	112.0	109.7	102.3
40	IH-0330	121.3	75.7	99.3	98.8	110.0	74.3	109.3	75.3	76.5	111.7	98.0	93.6
41	JH 409	127.3	86.7	119.7	111.2	127.3	81.0	121.0	91.3	90.0	107.0	117.3	105.0
42	PM16206L	121.0	82.7	111.0	104.9	121.0	80.7	116.3	87.0	85.0	108.7	109.7	101.2
43	GK3208	123.7	83.3	108.3	105.1	121.7	78.0	119.0	86.7	85.5	105.0	110.0	100.8
44	PM16205L	123.7	82.0	110.0	105.2	119.7	77.3	116.7	88.7	85.0	103.7	108.3	99.9
45	P3522 (C)	129.0	83.7	114.3	109.0	122.7	76.0	119.3	89.0	87.5	107.3	113.0	102.1
46	Seedtech 2324 (C)	126.7	83.7	115.3	108.6	123.7	76.0	115.0	89.0	84.5	108.0	108.7	100.7
47	Buland (C)	128.0	85.7	115.7	109.8	124.7	75.7	121.3	91.0	89.0	105.3	112.0	102.7
48	Bio 9981 (C)	123.0	82.7	110.0	105.2	118.7	76.0	116.3	85.0	84.0	111.3	109.7	100.2
	General Mean	126.2	83.2	112.7	107.4	121.9	77.5	116.9	86.8	86.0	108.9	110.3	101.2
	CV(%)	1.4	2.3	2.5	2.0	1.5	1.3	2.1	2.1	1.3	3.6	0.8	2.1
	P-Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
	CD (5%)	2.9	3.1	4.5	3.9	3.0	1.6	3.9	2.9	2.3	6.4	1.4	2.6

TABLE No. 1 (Contd.)

Sl	Entry Name	DAYS TO 50% SILK										All India Mean
		4							5			
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	JH 248	64.3	79.0	69.7	81.0	81.0	57.7	72.1	94.7	82.5	88.6	92.0
2	PM16201L	63.3	78.0	72.3	77.0	78.3	58.7	71.3	96.7	87.0	91.8	91.5
3	JH 295	65.7	78.7	71.3	81.0	79.3	59.7	72.6	97.3	82.0	89.8	92.3
4	BLH 116	63.0	73.3	69.7	77.0	78.0	58.3	69.9	95.0	80.5	87.8	90.6
5	HT 16052	64.0	76.3	70.3	88.0	81.7	58.7	73.2	94.3	87.0	90.6	92.5
6	BLH 113	61.3	76.0	69.3	76.0	78.3	58.0	69.8	91.7	86.0	88.8	90.8
7	ADV 7139	63.3	75.3	71.0	77.0	78.7	58.0	70.6	94.3	87.0	90.6	91.7
8	DAS-MH-903	60.7	70.3	68.7	72.0	78.3	58.3	68.1	91.0	82.5	86.7	88.3
9	Super 3366	62.3	76.7	69.7	80.0	80.3	58.0	71.2	93.3	87.5	90.4	92.2
10	CMH 2829	60.7	75.7	70.0	77.0	78.3	56.3	69.7	93.3	82.0	87.7	89.5
11	ADV 7037	66.7	76.7	75.0	88.0	82.0	60.0	74.7	98.0	90.5	94.2	94.7
12	IH-1304	59.3	70.7	68.3	76.7	81.3	56.0	68.7	92.3	75.0	83.8	86.8
13	KWS-8915	68.0	76.4	75.0	86.0	81.3	59.7	74.4	96.0	86.0	91.0	93.9
14	KH-2124	64.7	77.3	69.7	83.0	80.0	59.7	72.4	98.0	86.0	92.0	92.1
15	JH 412	67.0	80.3	73.3	77.0	80.3	60.3	73.1	96.0	89.0	92.5	93.1
16	DAS-MH-904	60.7	71.3	69.0	80.0	79.3	56.3	69.4	91.3	78.0	84.7	88.8
17	GK3209	62.3	74.7	69.0	77.0	78.3	58.7	70.0	92.3	84.5	88.4	90.2
18	Rasi 2015	62.7	77.0	69.7	73.0	80.0	56.7	69.8	92.3	85.0	88.6	91.0
19	DKC 9181(IR8494)	64.3	73.7	71.0	77.0	78.7	56.3	70.2	91.7	82.5	87.1	91.6
20	JH 273	64.3	76.0	68.7	85.0	80.0	60.0	72.3	92.0	85.5	88.7	91.9
21	DKC 9188(IR8737)	63.0	74.7	71.7	77.0	80.0	59.0	70.9	90.7	86.5	88.5	91.8
22	PM16202L	60.3	73.3	69.7	71.0	78.0	55.7	68.0	91.7	82.0	86.8	88.7
23	IH-031	59.3	66.7	69.0	68.7	78.3	56.0	66.3	91.0	80.0	85.5	86.1
24	Rasi 1107	63.3	76.3	69.7	76.0	79.3	56.7	70.2	92.7	82.0	87.4	90.6
25	PM16203L	62.0	72.3	69.3	77.0	77.3	58.3	69.4	92.3	81.0	86.7	89.4
26	PM16207L	62.0	74.7	71.0	73.0	78.0	57.3	69.3	90.0	86.0	87.9	90.5
27	KH-1226	62.7	77.0	69.7	78.0	80.7	57.3	70.9	92.7	89.5	91.0	91.7
28	Star-47	60.7	71.7	69.7	76.0	77.3	56.3	68.6	92.3	80.0	86.2	87.9
29	MM2033	66.3	78.7	73.7	88.0	80.0	57.7	74.1	97.0	87.0	92.0	93.5
30	JH 358	62.7	73.7	69.3	81.0	78.3	60.3	70.9	88.3	80.0	84.2	89.6

TABLE No. 1 (Contd.)

Sl	Entry Name	DAYS TO 50% SILK										All India Mean
		4							5			
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
31	IH-0712	58.0	67.0	68.3	70.0	76.7	55.3	65.9	88.7	72.0	80.4	83.8
32	CMH 2725	64.3	76.3	69.7	81.0	77.7	59.7	71.4	98.3	83.0	90.8	92.0
33	KWS-8933	65.7	78.0	74.0	81.0	81.0	58.7	73.1	96.7	90.0	93.3	93.6
34	HT 16047	62.7	73.7	69.3	81.0	77.7	58.7	70.5	91.3	85.0	88.1	90.7
35	PM16204L	63.7	75.3	69.7	80.0	77.3	57.0	70.5	92.0	82.0	87.0	89.7
36	VNR-32994	64.3	77.0	73.7	81.0	81.7	60.3	73.0	91.7	86.5	89.0	92.3
37	Star-57	61.0	73.0	68.3	78.0	79.0	59.3	69.8	91.0	82.5	86.7	89.7
38	BIO 305	61.7	75.7	69.7	75.0	77.3	58.7	69.7	94.0	88.0	91.0	90.2
39	REH-2014-6	65.7	79.0	71.3	78.0	79.3	56.7	71.7	98.0	86.5	92.3	92.1
40	IH-0330	59.3	67.3	68.7	71.0	79.7	57.0	67.2	89.7	73.0	81.4	84.3
41	JH 409	67.7	83.0	75.0	88.0	82.3	61.3	76.2	98.0	89.5	93.7	95.2
42	PM16206L	63.3	73.3	68.7	76.7	77.0	58.3	69.6	91.7	78.0	84.9	89.5
43	GK3208	63.0	74.3	70.0	79.0	78.0	60.3	70.8	93.0	86.5	89.7	90.3
44	PM16205L	64.0	71.0	68.3	77.7	76.0	59.3	69.4	91.0	78.0	84.6	88.9
45	P3522 (C)	63.7	75.0	74.0	76.0	79.0	58.7	71.1	92.0	86.0	89.0	91.4
46	Seedtech 2324 (C)	63.7	75.7	69.3	77.0	78.3	59.3	70.6	93.7	84.0	88.8	90.7
47	Buland (C)	65.0	80.7	74.7	81.0	81.0	60.7	73.8	92.3	87.0	89.6	92.8
48	Bio 9981 (C)	62.7	74.0	69.3	77.0	77.7	58.0	69.8	91.7	83.0	87.3	89.5
General Mean		63.1	75.0	70.5	78.4	79.1	58.3	70.8	93.2	83.8	88.5	90.7
CV(%)		1.7	2.8	1.2	0.5	1.8	1.6	1.8	1.8	0.6	1.6	2.0
P-Value		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	3.4	1.4	0.6	2.3	1.5	2.2	2.8	1.0	5.1	1.5

TABLE No. 1 (Contd.)

Sl	Entry Name	DAYS TO 75% DRY HUSK										
		2			3							
		Karnal Mean	Ludhiana Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	JH 248	169.7	118.0	143.8	156.3	115.3	155.0	121.3	126.5	145.0	144.3	137.6
2	PM16201L	168.0	120.7	144.3	155.7	119.0	155.7	128.3	124.0	143.7	147.3	139.2
3	JH 295	167.0	121.0	144.0	154.7	115.7	151.7	125.3	124.0	136.7	145.0	136.1
4	BLH 116	164.7	120.0	142.3	155.3	117.3	153.3	123.0	125.0	144.3	145.0	137.6
5	HT 16052	171.0	119.3	145.2	153.3	117.0	153.3	124.7	124.5	147.7	144.3	137.8
6	BLH 113	170.3	122.3	146.3	158.3	117.3	149.3	128.7	125.0	138.7	145.7	137.5
7	ADV 7139	167.0	118.7	142.8	153.3	118.3	153.3	126.3	126.0	145.0	146.3	138.3
8	DAS-MH-903	165.0	116.7	140.8	154.3	116.0	151.0	127.0	121.0	140.3	142.0	136.0
9	Super 3366	165.7	122.7	144.2	155.3	118.3	156.0	125.0	124.5	147.0	145.3	138.8
10	CMH 2829	166.3	119.7	143.0	157.3	117.0	154.0	124.3	124.0	143.7	144.3	137.8
11	ADV 7037	170.7	119.7	145.2	160.3	117.0	158.3	125.7	127.5	144.3	146.7	139.9
12	IH-1304	162.3	115.0	138.7	150.7	117.0	146.7	91.3	121.5	145.0	128.0	128.3
13	KWS-8915	170.3	123.0	146.7	156.3	117.0	155.0	89.0	126.5	145.0	148.0	133.5
14	KH-2124	171.7	121.7	146.7	154.7	119.0	158.3	124.7	126.0	145.3	145.3	139.0
15	JH 412	169.0	118.7	143.8	155.3	115.0	153.0	125.7	125.0	145.3	147.0	138.0
16	DAS-MH-904	164.0	121.7	142.8	151.7	118.0	151.7	130.0	123.5	147.3	143.7	138.0
17	GK3209	162.3	123.0	142.7	155.3	116.3	154.3	122.7	123.5	144.7	143.7	137.2
18	Rasi 2015	165.0	119.0	142.0	157.3	117.0	155.7	124.3	123.0	149.7	147.0	139.3
19	DKC 9181(IR8494)	168.0	120.0	144.0	156.3	118.7	156.3	126.3	124.0	147.0	147.7	139.6
20	JH 273	163.3	118.3	140.8	149.7	115.0	151.7	129.0	125.0	151.0	145.7	138.1
21	DKC 9188(IR8737)	168.3	120.3	144.3	159.3	118.0	157.3	125.0	123.5	147.3	146.0	139.6
22	PM16202L	165.0	118.3	141.7	158.3	118.7	151.7	130.3	121.5	149.3	143.7	139.3
23	IH-031	165.3	113.3	139.3	148.3	116.0	143.3	124.0	124.0	148.0	126.3	132.6
24	Rasi 1107	166.7	120.0	143.3	156.3	119.0	153.3	123.3	123.5	144.0	146.3	138.0
25	PM16203L	162.7	120.3	141.5	155.3	118.0	153.3	129.7	123.0	141.7	144.3	138.0
26	PM16207L	170.3	115.7	143.0	149.7	117.0	150.0	123.3	123.5	150.3	141.3	136.4
27	KH-1226	173.0	119.7	146.3	156.0	119.0	156.7	128.7	123.5	146.3	146.0	139.6
28	Star-47	165.7	118.3	142.0	151.3	116.0	149.0	131.3	121.0	147.7	141.7	137.0
29	MM2033	168.0	118.0	143.0	158.3	113.7	155.7	123.7	126.0	148.7	147.3	139.0
30	JH 358	161.7	115.7	138.7	153.3	118.3	155.7	130.0	123.5	145.3	143.3	138.6

TABLE No. 1 (Contd.)

Sl	Entry Name	DAYS TO 75% DRY HUSK										
		2			3							
		Karnal Mean	Ludhiana Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
31	IH-0712	162.7	113.7	138.2	148.3	118.0	143.7	126.3	111.5	145.0	134.0	132.8
32	CMH 2725	171.0	118.0	144.5	154.3	117.0	153.0	129.7	124.5	146.7	145.0	138.6
33	KWS-8933	171.0	117.7	144.3	156.3	116.0	152.0	132.7	126.0	143.3	146.7	139.0
34	HT 16047	164.0	120.0	142.0	153.3	119.0	153.0	125.3	123.8	144.0	144.0	137.5
35	PM16204L	165.0	119.0	142.0	152.7	116.3	155.3	123.3	123.0	148.3	142.0	137.3
36	VNR-32994	165.7	123.3	144.5	158.3	117.0	154.0	124.3	125.5	146.0	146.3	138.8
37	Star-57	169.0	117.3	143.2	151.3	117.0	139.7	123.3	122.0	147.3	142.7	134.7
38	BIO 305	164.7	119.0	141.8	153.3	115.0	153.3	122.3	123.5	147.7	143.0	136.9
39	REH-2014-6	169.0	120.3	144.7	154.3	117.0	155.0	130.7	124.0	150.3	145.0	139.6
40	IH-0330	162.0	112.0	137.0	150.3	115.0	143.3	122.3	113.5	148.3	136.3	133.0
41	JH 409	169.7	118.7	144.2	158.3	121.0	155.7	130.7	127.0	147.7	146.3	141.0
42	PM16206L	164.7	114.3	139.5	153.3	116.0	152.3	123.7	122.5	148.0	143.0	137.0
43	GK3208	167.0	119.0	143.0	155.3	117.3	155.0	129.3	123.0	142.0	145.3	138.3
44	PM16205L	164.7	118.0	141.3	149.7	115.0	151.3	125.0	120.5	137.7	144.3	134.8
45	P3522 (C)	171.0	118.7	144.8	156.3	114.0	153.0	124.7	126.0	144.3	146.3	137.7
46	Seedtech 2324 (C)	163.0	118.7	140.8	154.3	117.0	153.0	130.0	122.0	143.7	143.3	137.7
47	Buland (C)	167.0	120.3	143.7	153.3	115.0	155.0	131.0	126.5	141.7	144.0	138.0
48	Bio 9981 (C)	164.0	118.3	141.2	156.0	117.0	152.3	121.3	122.0	105.3	143.3	130.8
General Mean		166.7	118.9	142.8	154.5	117.0	152.7	124.8	123.6	144.6	143.7	137.3
CV(%)		1.0	1.7	1.3	0.8	0.9	2.3	11.1	0.7	8.7	2.7	5.5
P-Value		0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.8	0.0	0.0
CD (5%)		2.7	3.2	4.8	1.9	1.7	5.7	22.5	1.7	20.3	6.2	4.8

TABLE No. 1 (Contd.)

Sl	Entry Name	DAYS TO 75% DRY HUSK										
		4							5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Zone Mean	Banswara Mean	Godhra Mean	Zone Mean		
1	JH 248	104.7	117.7	109.7	117.7	121.7	96.7	111.3	130.7	113.0	121.9	127.2
2	PM16201L	104.0	114.0	112.3	114.3	120.3	98.3	110.6	131.0	114.0	122.6	127.7
3	JH 295	106.0	117.7	111.3	120.0	119.7	99.7	112.4	132.7	112.5	122.8	127.1
4	BLH 116	103.7	113.3	109.7	114.0	119.0	98.0	109.6	129.7	112.5	121.1	126.3
5	HT 16052	104.0	113.0	110.3	120.7	124.7	98.0	111.8	129.7	114.0	121.8	127.6
6	BLH 113	102.0	113.0	109.3	114.0	119.0	97.0	109.1	126.0	112.0	118.9	126.3
7	ADV 7139	103.3	114.0	111.0	114.3	119.0	97.3	109.8	128.0	115.0	121.4	126.8
8	DAS-MH-903	101.0	110.3	108.7	111.3	119.0	98.0	108.1	127.0	111.0	119.0	124.7
9	Super 3366	103.3	113.0	109.7	119.7	121.3	97.3	110.7	129.3	115.0	122.1	127.5
10	CMH 2829	101.3	115.7	110.0	115.0	119.7	95.7	109.6	127.7	113.0	120.3	126.4
11	ADV 7037	107.7	114.0	115.0	120.0	122.3	100.7	113.3	133.0	117.5	125.3	129.4
12	IH-1304	100.3	113.7	108.3	114.0	124.3	95.3	109.3	128.3	108.0	118.3	121.7
13	KWS-8915	107.7	117.3	115.0	121.7	123.0	100.0	114.1	131.0	115.0	123.0	127.0
14	KH-2124	105.0	112.0	109.7	118.0	121.7	99.7	111.0	132.3	115.0	123.7	128.2
15	JH 412	107.0	116.0	113.3	114.3	122.7	100.7	112.3	131.7	116.5	124.1	128.0
16	DAS-MH-904	101.3	112.0	109.0	116.0	121.7	96.3	109.4	125.7	110.0	117.8	126.1
17	GK3209	103.0	113.0	109.0	115.0	120.7	98.0	109.8	127.0	115.0	120.9	126.2
18	Rasi 2015	103.3	116.0	109.7	111.0	123.3	96.0	109.9	128.7	111.5	120.1	127.0
19	DKC 9181(IR8494)	103.7	112.0	111.0	114.0	123.3	96.0	110.0	128.7	113.0	120.8	127.4
20	JH 273	105.3	114.0	108.7	117.7	125.0	100.0	111.8	126.3	113.0	119.6	127.0
21	DKC 9188(IR8737)	103.3	113.0	111.7	115.0	121.7	98.7	110.6	126.3	111.0	118.7	127.5
22	PM16202L	100.0	116.7	109.7	111.0	120.7	94.7	108.8	127.3	111.0	119.2	126.4
23	IH-031	99.7	108.0	109.0	110.0	121.3	95.7	107.3	127.0	108.0	117.6	122.7
24	Rasi 1107	104.0	111.0	109.7	113.0	124.0	96.3	109.7	129.0	115.0	121.9	126.7
25	PM16203L	102.3	113.0	109.3	114.0	120.3	97.7	109.4	128.0	110.0	119.1	126.1
26	PM16207L	103.3	115.0	111.0	111.0	120.0	97.0	109.6	123.3	115.0	118.9	125.6
27	KH-1226	102.7	116.7	109.7	115.7	123.7	97.0	110.9	128.7	117.0	122.7	128.2
28	Star-47	101.3	110.7	109.7	113.0	120.3	95.7	108.4	128.3	109.5	119.0	125.4
29	MM2033	106.7	114.0	113.7	116.7	122.7	98.0	111.9	131.7	113.0	122.4	128.0
30	JH 358	102.7	112.3	109.3	120.0	122.0	100.7	111.2	124.3	110.5	117.4	126.4

TABLE No. 1 (Contd.)

Sl	Entry Name	DAYS TO 75% DRY HUSK										
		4						5				All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Zone Mean	Banswara Mean	Godhra Mean	Zone Mean		
31	IH-0712	99.3	106.3	108.3	109.0	119.0	94.3	106.1	125.7	109.5	117.6	122.2
32	CMH 2725	105.0	111.0	109.7	120.0	119.3	100.0	110.8	132.3	108.0	120.5	127.4
33	KWS-8933	105.7	111.0	114.0	117.3	123.3	98.7	111.7	130.3	115.0	122.7	128.0
34	HT 16047	102.3	110.3	109.3	117.0	119.0	98.7	109.4	127.3	113.0	120.1	126.1
35	PM16204L	104.3	111.0	109.7	119.3	120.0	96.7	110.2	129.7	113.0	121.4	126.4
36	VNR-32994	104.3	111.3	113.7	120.0	123.3	100.7	112.2	126.7	113.5	120.0	127.9
37	Star-57	100.7	110.3	108.3	115.3	120.3	99.3	109.1	125.0	110.5	117.7	124.7
38	BIO 305	103.0	115.7	109.7	113.0	122.0	98.0	110.2	129.0	113.0	121.0	126.2
39	REH-2014-6	106.0	115.0	111.3	115.7	121.3	96.3	110.9	133.0	115.0	124.1	128.2
40	IH-0330	100.0	105.0	108.7	111.0	123.0	96.3	107.3	122.3	108.0	115.1	122.3
41	JH 409	107.7	117.7	115.0	122.7	124.7	102.0	114.9	134.7	114.0	124.5	130.2
42	PM16206L	104.3	109.7	108.7	114.0	118.7	98.0	108.9	128.3	109.0	118.8	125.2
43	GK3208	102.7	115.0	110.0	116.3	120.3	100.7	110.8	129.3	114.0	121.7	127.2
44	PM16205L	104.0	113.0	108.3	115.7	118.3	98.7	109.7	125.0	109.5	117.3	124.7
45	P3522 (C)	103.7	115.0	114.0	114.0	121.7	98.3	111.1	127.7	116.0	121.7	127.3
46	Seedtech 2324 (C)	104.0	112.0	109.3	116.3	121.0	99.3	110.3	129.0	117.5	123.1	126.6
47	Buland (C)	105.7	113.3	114.7	120.0	123.0	100.7	112.9	128.0	115.0	121.4	127.9
48	Bio 9981 (C)	103.3	117.0	109.3	114.0	120.7	97.7	110.3	126.7	108.5	117.7	123.3
	General Mean	103.5	113.1	110.5	115.7	121.4	98.0	110.4	128.5	112.7	120.6	126.5
	CV(%)	1.1	2.5	0.8	1.9	1.3	1.1	1.6	1.6	1.3	1.5	4.0
	P-Value	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	4.6	1.4	3.6	2.6	1.8	2.1	3.3	3.0	4.0	2.2

TABLE No. 1 (Contd.)

Sl	Entry Name	PLANT HEIGHT											
		2				3							
		Karnal Ludhiana Pantnagar Zone Mean				Bahraich Bhubaneshwar Dholi Kalyani Ranchi Sabour Varanasi Zone Mean							
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
1	JH 248	127.7	84.7	115.3	109.2	123.7	76.0	117.0	89.3	90.5	109.0	112.7	102.5
2	PM16201L	129.7	83.3	114.3	109.1	122.0	76.0	118.3	86.7	86.0	108.3	111.7	101.3
3	JH 295	126.3	86.3	116.0	109.6	124.0	80.3	118.7	87.7	87.5	105.0	114.3	102.5
4	BLH 116	123.0	82.3	113.7	106.3	123.0	82.3	116.0	89.0	86.5	109.3	110.3	102.4
5	HT 16052	128.7	83.7	112.3	108.2	123.3	81.7	117.7	89.7	87.5	109.7	110.3	102.8
6	BLH 113	126.3	84.0	116.0	108.8	122.7	82.0	118.3	87.0	86.0	104.3	112.0	101.8
7	ADV 7139	128.7	83.0	116.7	109.4	120.7	80.7	118.7	88.0	88.5	107.0	114.3	102.5
8	DAS-MH-903	126.7	81.7	112.3	106.9	117.0	74.0	113.7	84.7	85.5	105.0	108.0	98.2
9	Super 3366	129.7	86.7	115.7	110.7	122.0	81.0	119.3	90.7	87.0	110.3	110.3	103.0
10	CMH 2829	125.3	84.0	111.7	107.0	117.3	74.0	116.3	84.7	86.0	108.7	110.0	99.6
11	ADV 7037	129.0	86.7	117.7	111.1	126.0	81.3	120.0	89.7	92.0	110.7	114.3	104.8
12	IH-1304	122.0	78.0	105.7	101.9	118.7	74.0	113.3	79.7	81.5	107.3	102.7	96.7
13	KWS-8915	130.7	88.3	115.0	111.3	125.0	77.0	123.3	88.0	91.0	108.3	115.7	104.0
14	KH-2124	129.7	82.7	113.3	108.6	124.7	75.0	116.7	91.0	88.5	107.7	111.0	102.1
15	JH 412	127.7	84.7	116.7	109.7	125.3	76.0	118.3	88.3	88.5	110.7	115.7	103.3
16	DAS-MH-904	121.7	84.3	110.3	105.4	117.7	76.0	115.7	82.7	86.0	111.7	106.0	99.4
17	GK3209	129.3	83.3	110.7	107.8	119.3	76.0	115.7	86.7	86.5	110.3	108.3	100.4
18	Rasi 2015	123.0	85.0	115.3	107.8	124.7	76.0	118.3	90.0	85.0	110.0	115.0	102.8
19	DKC 9181(IR8494)	130.3	84.3	115.7	110.1	125.7	81.0	118.0	89.3	87.0	108.0	113.3	103.2
20	JH 273	123.0	83.3	115.0	107.1	121.7	81.0	117.7	88.0	87.5	112.3	112.7	103.0
21	DKC 9188(IR8737)	129.0	84.3	113.7	109.0	123.7	81.0	119.7	91.0	86.0	109.0	112.0	103.2
22	PM16202L	126.0	79.3	110.0	105.1	119.7	80.3	112.3	83.7	83.5	112.0	107.3	99.9
23	IH-031	127.3	75.7	105.0	102.7	117.7	75.0	110.0	78.7	77.0	112.7	102.0	96.2
24	Rasi 1107	126.7	83.7	114.7	108.3	123.0	76.0	115.7	88.7	86.0	108.7	110.7	101.2
25	PM16203L	121.0	82.3	112.0	105.1	117.7	79.7	115.3	83.7	85.0	112.7	109.3	100.5
26	PM16207L	129.0	83.7	111.7	108.1	123.0	76.0	116.7	88.7	85.0	113.0	110.0	101.8
27	KH-1226	128.0	84.3	114.3	108.9	125.3	77.0	118.3	89.0	86.0	109.7	111.7	102.5
28	Star-47	124.0	79.3	109.7	104.3	117.3	75.0	111.7	84.0	83.0	109.0	105.7	98.0
29	MM2033	125.0	85.0	115.7	108.6	126.7	76.0	121.7	90.3	90.5	108.7	114.7	104.1
30	JH 358	118.7	81.3	111.7	103.9	123.0	79.0	117.7	86.0	85.0	107.3	109.7	101.1

TABLE No. 1 (Contd.)

Sl	Entry Name	PLANT HEIGHT											
		2				3							
		Karnal Ludhiana Pantnagar Zone Mean				Bahraich Bhubaneshwar Dholi Kalyani Ranchi Sabour Varanasi Zone Mean							
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
31	IH-0712	129.3	74.0	100.0	101.1	113.3	76.0	106.7	73.0	74.5	109.3	96.0	92.7
32	CMH 2725	128.3	83.7	114.3	108.8	124.3	76.0	119.0	88.7	88.5	109.7	113.7	102.8
33	KWS-8933	130.7	87.7	117.0	111.8	124.0	77.0	119.7	90.3	91.5	106.3	115.7	103.5
34	HT 16047	126.3	84.7	112.0	107.7	122.0	81.3	115.7	89.0	85.8	106.3	111.0	101.6
35	PM16204L	127.7	82.7	109.7	106.7	121.7	78.0	115.7	83.3	85.0	108.3	105.7	99.7
36	VNR-32994	123.7	85.0	116.3	108.3	124.3	75.0	120.0	89.0	89.0	110.0	112.7	102.8
37	Star-57	125.7	83.3	112.7	107.2	124.3	74.3	116.3	81.3	84.0	111.0	109.3	100.1
38	BIO 305	123.0	84.7	110.3	106.0	122.0	75.0	118.3	85.3	85.0	110.3	110.7	101.0
39	REH-2014-6	127.7	83.3	115.3	108.8	124.7	77.3	117.3	87.7	87.5	112.0	109.7	102.3
40	IH-0330	121.3	75.7	99.3	98.8	110.0	74.3	109.3	75.3	76.5	111.7	98.0	93.6
41	JH 409	127.3	86.7	119.7	111.2	127.3	81.0	121.0	91.3	90.0	107.0	117.3	105.0
42	PM16206L	121.0	82.7	111.0	104.9	121.0	80.7	116.3	87.0	85.0	108.7	109.7	101.2
43	GK3208	123.7	83.3	108.3	105.1	121.7	78.0	119.0	86.7	85.5	105.0	110.0	100.8
44	PM16205L	123.7	82.0	110.0	105.2	119.7	77.3	116.7	88.7	85.0	103.7	108.3	99.9
45	P3522 (C)	129.0	83.7	114.3	109.0	122.7	76.0	119.3	89.0	87.5	107.3	113.0	102.1
46	Seedtech 2324 (C)	126.7	83.7	115.3	108.6	123.7	76.0	115.0	89.0	84.5	108.0	108.7	100.7
47	Buland (C)	128.0	85.7	115.7	109.8	124.7	75.7	121.3	91.0	89.0	105.3	112.0	102.7
48	Bio 9981 (C)	123.0	82.7	110.0	105.2	118.7	76.0	116.3	85.0	84.0	111.3	109.7	100.2
	General Mean	126.2	83.2	112.7	107.4	121.9	77.5	116.9	86.8	86.0	108.9	110.3	101.2
	CV(%)	1.4	2.3	2.5	2.0	1.5	1.3	2.1	2.1	1.3	3.6	0.8	2.1
	P-Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
	CD (5%)	2.9	3.1	4.5	3.9	3.0	1.6	3.9	2.9	2.3	6.4	1.4	2.6

TABLE No. 1 (Contd.)

Sl	Entry Name	PLANT HEIGHT										All India Mean
		4						5				
		Coimbatore Dharwad Karimnagar Kolhapur Rahuri Vagarai Zone Mean						Banswara Godhra Zone Mean				
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean		
1	JH 248	64.3	79.0	69.7	81.0	81.0	57.7	72.1	94.7	82.5	88.6	92.0
2	PM16201L	63.3	78.0	72.3	77.0	78.3	58.7	71.3	96.7	87.0	91.8	91.5
3	JH 295	65.7	78.7	71.3	81.0	79.3	59.7	72.6	97.3	82.0	89.8	92.3
4	BLH 116	63.0	73.3	69.7	77.0	78.0	58.3	69.9	95.0	80.5	87.8	90.6
5	HT 16052	64.0	76.3	70.3	88.0	81.7	58.7	73.2	94.3	87.0	90.6	92.5
6	BLH 113	61.3	76.0	69.3	76.0	78.3	58.0	69.8	91.7	86.0	88.8	90.8
7	ADV 7139	63.3	75.3	71.0	77.0	78.7	58.0	70.6	94.3	87.0	90.6	91.7
8	DAS-MH-903	60.7	70.3	68.7	72.0	78.3	58.3	68.1	91.0	82.5	86.7	88.3
9	Super 3366	62.3	76.7	69.7	80.0	80.3	58.0	71.2	93.3	87.5	90.4	92.2
10	CMH 2829	60.7	75.7	70.0	77.0	78.3	56.3	69.7	93.3	82.0	87.7	89.5
11	ADV 7037	66.7	76.7	75.0	88.0	82.0	60.0	74.7	98.0	90.5	94.2	94.7
12	IH-1304	59.3	70.7	68.3	76.7	81.3	56.0	68.7	92.3	75.0	83.8	86.8
13	KWS-8915	68.0	76.4	75.0	86.0	81.3	59.7	74.4	96.0	86.0	91.0	93.9
14	KH-2124	64.7	77.3	69.7	83.0	80.0	59.7	72.4	98.0	86.0	92.0	92.1
15	JH 412	67.0	80.3	73.3	77.0	80.3	60.3	73.1	96.0	89.0	92.5	93.1
16	DAS-MH-904	60.7	71.3	69.0	80.0	79.3	56.3	69.4	91.3	78.0	84.7	88.8
17	GK3209	62.3	74.7	69.0	77.0	78.3	58.7	70.0	92.3	84.5	88.4	90.2
18	Rasi 2015	62.7	77.0	69.7	73.0	80.0	56.7	69.8	92.3	85.0	88.6	91.0
19	DKC 9181(IR8494)	64.3	73.7	71.0	77.0	78.7	56.3	70.2	91.7	82.5	87.1	91.6
20	JH 273	64.3	76.0	68.7	85.0	80.0	60.0	72.3	92.0	85.5	88.7	91.9
21	DKC 9188(IR8737)	63.0	74.7	71.7	77.0	80.0	59.0	70.9	90.7	86.5	88.5	91.8
22	PM16202L	60.3	73.3	69.7	71.0	78.0	55.7	68.0	91.7	82.0	86.8	88.7
23	IH-031	59.3	66.7	69.0	68.7	78.3	56.0	66.3	91.0	80.0	85.5	86.1
24	Rasi 1107	63.3	76.3	69.7	76.0	79.3	56.7	70.2	92.7	82.0	87.4	90.6
25	PM16203L	62.0	72.3	69.3	77.0	77.3	58.3	69.4	92.3	81.0	86.7	89.4
26	PM16207L	62.0	74.7	71.0	73.0	78.0	57.3	69.3	90.0	86.0	87.9	90.5
27	KH-1226	62.7	77.0	69.7	78.0	80.7	57.3	70.9	92.7	89.5	91.0	91.7
28	Star-47	60.7	71.7	69.7	76.0	77.3	56.3	68.6	92.3	80.0	86.2	87.9
29	MM2033	66.3	78.7	73.7	88.0	80.0	57.7	74.1	97.0	87.0	92.0	93.5
30	JH 358	62.7	73.7	69.3	81.0	78.3	60.3	70.9	88.3	80.0	84.2	89.6

TABLE No. 1 (Contd.)

Sl	Entry Name	PLANT HEIGHT										All India Mean
		4						5				
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Zone Mean	Banswara Mean	Godhra Zone Mean			
31	IH-0712	58.0	67.0	68.3	70.0	76.7	55.3	65.9	88.7	72.0	80.4	83.8
32	CMH 2725	64.3	76.3	69.7	81.0	77.7	59.7	71.4	98.3	83.0	90.8	92.0
33	KWS-8933	65.7	78.0	74.0	81.0	81.0	58.7	73.1	96.7	90.0	93.3	93.6
34	HT 16047	62.7	73.7	69.3	81.0	77.7	58.7	70.5	91.3	85.0	88.1	90.7
35	PM16204L	63.7	75.3	69.7	80.0	77.3	57.0	70.5	92.0	82.0	87.0	89.7
36	VNR-32994	64.3	77.0	73.7	81.0	81.7	60.3	73.0	91.7	86.5	89.0	92.3
37	Star-57	61.0	73.0	68.3	78.0	79.0	59.3	69.8	91.0	82.5	86.7	89.7
38	BIO 305	61.7	75.7	69.7	75.0	77.3	58.7	69.7	94.0	88.0	91.0	90.2
39	REH-2014-6	65.7	79.0	71.3	78.0	79.3	56.7	71.7	98.0	86.5	92.3	92.1
40	IH-0330	59.3	67.3	68.7	71.0	79.7	57.0	67.2	89.7	73.0	81.4	84.3
41	JH 409	67.7	83.0	75.0	88.0	82.3	61.3	76.2	98.0	89.5	93.7	95.2
42	PM16206L	63.3	73.3	68.7	76.7	77.0	58.3	69.6	91.7	78.0	84.9	89.5
43	GK3208	63.0	74.3	70.0	79.0	78.0	60.3	70.8	93.0	86.5	89.7	90.3
44	PM16205L	64.0	71.0	68.3	77.7	76.0	59.3	69.4	91.0	78.0	84.6	88.9
45	P3522 (C)	63.7	75.0	74.0	76.0	79.0	58.7	71.1	92.0	86.0	89.0	91.4
46	Seedtech 2324 (C)	63.7	75.7	69.3	77.0	78.3	59.3	70.6	93.7	84.0	88.8	90.7
47	Buland (C)	65.0	80.7	74.7	81.0	81.0	60.7	73.8	92.3	87.0	89.6	92.8
48	Bio 9981 (C)	62.7	74.0	69.3	77.0	77.7	58.0	69.8	91.7	83.0	87.3	89.5
General Mean		63.1	75.0	70.5	78.4	79.1	58.3	70.8	93.2	83.8	88.5	90.7
CV(%)		1.7	2.8	1.2	0.5	1.8	1.6	1.8	1.8	0.6	1.6	2.0
P-Value		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	3.4	1.4	0.6	2.3	1.5	2.2	2.8	1.0	5.1	1.5

TABLE No. 1 (Contd.)

Sl	Entry Name	EAR HEIGHT											
		2				3							
		Karnal Ludhiana Pantnagar Zone Mean				Bahraich Bhubaneshwar Dholi Kalyani Ranchi Sabour Varanasi Zone Mean							
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	JH 248	94.3	95.0	88.3	92.6	86.1	105.0	93.3	76.8	89.9	127.3	86.7	95.1
2	PM16201L	110.8	108.3	98.3	105.8	99.2	104.0	100.0	124.1	101.8	120.0	96.7	106.6
3	JH 295	120.7	103.3	104.0	109.3	82.0	111.7	106.7	111.7	98.0	109.0	100.0	102.8
4	BLH 116	110.7	116.7	105.3	110.9	105.8	104.7	109.7	103.2	112.8	122.3	101.7	108.5
5	HT 16052	101.8	103.3	108.0	104.4	104.2	113.7	107.3	103.8	107.5	118.0	98.3	107.5
6	BLH 113	103.7	106.7	103.3	104.6	132.4	114.0	106.3	126.7	126.3	107.3	101.7	116.2
7	ADV 7139	84.3	95.0	88.7	89.3	109.5	114.7	81.7	106.5	99.9	118.3	91.7	103.2
8	DAS-MH-903	72.7	85.0	95.7	84.4	98.7	106.0	92.3	110.6	90.8	105.3	90.0	99.2
9	Super 3366	91.0	81.7	89.3	87.3	99.2	110.7	114.7	95.9	100.1	107.7	88.3	102.4
10	CMH 2829	97.3	85.0	93.7	92.0	105.1	112.7	87.7	118.9	90.8	115.0	96.7	104.1
11	ADV 7037	98.3	103.3	89.7	97.1	98.9	113.0	104.0	107.3	98.4	112.7	100.0	105.0
12	IH-1304	101.0	90.0	70.7	87.2	90.0	105.3	80.0	84.1	87.7	109.7	70.0	89.6
13	KWS-8915	94.8	105.0	118.0	105.9	122.8	115.3	90.0	108.2	122.3	101.7	91.7	107.1
14	KH-2124	92.7	96.7	93.3	94.2	95.6	101.0	93.3	82.8	95.3	116.0	95.0	97.0
15	JH 412	97.7	108.3	108.0	104.7	99.4	110.7	106.3	120.9	112.9	121.0	93.3	109.1
16	DAS-MH-904	85.0	81.7	84.7	83.8	96.6	112.0	74.0	104.8	86.3	106.3	86.7	95.4
17	GK3209	100.3	81.7	86.3	89.4	79.4	105.0	86.0	104.3	87.0	114.0	90.0	95.2
18	Rasi 2015	117.7	93.3	94.7	101.9	97.9	116.3	99.7	110.8	100.6	113.3	88.3	103.9
19	DKC 9181(IR8494)	107.6	113.3	101.7	107.5	95.0	107.7	112.0	121.5	116.4	113.0	95.0	108.5
20	JH 273	95.0	91.7	88.0	91.6	98.8	110.7	96.0	108.8	96.9	101.7	86.7	100.0
21	DKC 9188(IR8737)	115.0	90.0	97.7	100.9	95.6	105.3	105.7	100.6	104.3	105.7	90.0	100.9
22	PM16202L	107.0	108.3	97.0	104.1	97.5	110.3	107.0	115.1	106.0	102.3	93.3	104.5
23	IH-031	75.3	65.0	69.3	69.9	97.2	112.7	91.7	94.5	92.0	113.3	80.0	97.4
24	Rasi 1107	100.0	93.3	94.3	95.9	102.8	116.3	94.0	100.1	98.2	110.3	80.0	100.3
25	PM16203L	81.3	98.3	96.7	92.1	99.9	109.0	99.3	104.4	94.3	99.3	85.0	98.8
26	PM16207L	122.3	116.7	113.3	117.4	118.0	113.7	122.0	147.6	115.9	110.0	118.3	120.9
27	KH-1226	102.7	96.7	106.0	101.8	97.4	107.3	99.0	132.7	99.9	100.7	100.0	105.4
28	Star-47	85.3	96.7	100.7	94.2	114.7	104.3	99.3	83.6	89.7	107.0	105.0	100.7
29	MM2033	110.7	93.3	98.3	100.8	126.1	112.7	114.7	103.0	114.5	101.3	105.0	110.9
30	JH 358	84.7	93.3	99.0	92.3	93.0	113.0	94.7	81.0	89.8	98.3	93.3	94.8

TABLE No. 1 (Contd.)

Sl	Entry Name	EAR HEIGHT											
		2				3							
		Karnal Ludhiana Pantnagar Zone Mean				Bahraich Bhubaneshwar Dholi Kalyani Ranchi Sabour Varanasi Zone Mean							
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
31	IH-0712	65.7	58.3	66.3	63.4	95.7	110.0	72.3	71.8	80.3	105.0	68.3	86.3
32	CMH 2725	94.3	88.3	89.0	90.6	106.2	112.0	108.0	113.8	111.7	99.7	93.3	106.3
33	KWS-8933	108.3	118.3	106.3	111.0	113.3	110.0	108.0	125.8	113.9	102.0	90.0	108.9
34	HT 16047	96.0	105.0	102.7	101.2	113.9	116.7	103.7	90.0	102.0	99.3	101.7	103.9
35	PM16204L	83.4	101.7	93.7	92.9	88.4	114.0	94.0	90.4	94.0	109.0	95.0	97.9
36	VNR-32994	119.0	98.3	96.7	104.7	109.7	109.7	125.0	94.5	101.8	104.7	103.3	107.0
37	Star-57	106.1	91.7	94.3	97.4	94.8	116.0	90.0	109.7	94.8	117.3	96.7	102.9
38	BIO 305	115.0	90.0	97.0	100.7	96.9	104.7	105.7	112.8	97.5	102.0	86.7	100.9
39	REH-2014-6	98.3	101.7	82.7	94.2	89.7	107.7	89.3	89.1	104.4	118.3	85.0	97.5
40	IH-0330	83.7	95.0	67.0	81.9	80.8	112.0	84.0	106.9	82.7	114.7	70.0	93.2
41	JH 409	121.0	106.7	108.3	112.0	120.7	112.0	119.7	112.8	109.2	115.3	90.0	111.4
42	PM16206L	107.3	110.0	99.0	105.4	111.3	114.7	73.3	98.1	99.1	106.3	101.7	100.7
43	GK3208	82.7	75.0	98.3	85.3	101.7	106.3	107.0	79.6	88.7	91.0	96.7	96.0
44	PM16205L	121.4	105.0	109.0	111.8	123.1	107.7	99.0	108.8	106.9	95.0	103.3	106.2
45	P3522 (C)	112.7	116.7	109.3	112.9	119.6	114.0	109.0	142.8	119.6	101.0	113.3	117.0
46	Seedtech 2324 (C)	92.7	96.7	100.7	96.7	115.9	103.0	105.0	99.4	101.0	118.7	110.0	107.7
47	Buland (C)	100.9	113.3	102.3	105.5	118.8	117.0	114.0	125.7	115.4	109.0	90.0	112.8
48	Bio 9981 (C)	107.3	106.7	99.0	104.3	112.7	103.7	91.3	115.1	103.9	116.0	98.3	105.9
	General Mean	99.5	97.4	95.9	97.6	103.2	110.2	99.3	105.9	101.1	109.0	93.6	103.2
	CV(%)	6.7	11.6	5.3	8.3	13.4	4.9	4.8	6.2	4.4	11.6	9.1	8.7
	P-Value	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%)	10.8	18.4	8.2	12.7	22.4	8.8	7.8	10.6	9.0	20.5	13.9	10.0

TABLE No. 1 (Contd.)

Sl	Entry Name	EAR HEIGHT										
		4							5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Zone Mean	Banswara Mean	Godhra Mean	Zone Mean		
1	JH 248	76.4	123.4	103.0	78.3	94.3	89.3	94.1	118.3	95.0	106.7	95.7
2	PM16201L	85.2	127.0	113.0	96.7	103.3	97.0	103.7	116.7	95.8	106.3	106.0
3	JH 295	85.4	124.5	113.0	91.7	114.3	102.5	105.2	105.0	100.0	102.5	105.0
4	BLH 116	97.2	155.1	115.0	105.0	118.0	106.2	116.1	106.7	103.3	105.0	111.5
5	HT 16052	99.1	133.1	133.7	95.0	117.7	106.5	114.2	110.0	94.2	102.1	109.5
6	BLH 113	99.1	131.8	129.0	95.0	115.0	116.7	114.4	173.3	113.3	143.3	116.8
7	ADV 7139	86.2	131.7	106.7	100.0	116.7	106.7	108.0	108.3	89.2	98.8	102.7
8	DAS-MH-903	85.1	129.4	118.0	86.7	115.0	99.7	105.6	110.0	95.0	102.5	99.5
9	Super 3366	87.4	107.9	119.3	83.3	122.0	98.3	103.0	125.0	93.7	109.3	101.3
10	CMH 2829	79.7	130.7	86.7	80.0	120.0	89.2	97.7	111.7	98.3	105.0	100.1
11	ADV 7037	101.0	127.3	111.3	75.0	118.3	104.1	106.2	110.0	107.5	108.8	104.3
12	IH-1304	75.5	125.0	100.3	80.0	111.7	86.9	96.6	115.0	304.2	209.6	93.1
13	KWS-8915	113.5	139.4	129.3	93.3	116.7	113.1	117.8	128.3	97.5	112.9	111.9
14	KH-2124	78.6	133.1	119.3	86.7	115.0	98.5	105.2	118.3	99.2	108.8	100.7
15	JH 412	91.2	134.9	121.3	100.0	119.3	112.2	113.2	121.7	100.8	111.3	110.5
16	DAS-MH-904	76.3	122.5	102.0	81.7	111.7	79.8	95.7	111.7	112.5	112.1	94.4
17	GK3209	76.1	125.6	96.0	95.0	119.7	98.2	101.8	115.0	110.0	112.5	97.7
18	Rasi 2015	82.9	133.3	107.7	98.3	119.3	99.0	106.8	116.7	96.7	106.7	105.3
19	DKC 9181(IR8494)	84.5	147.3	119.3	91.7	120.0	94.9	109.6	116.7	98.3	107.5	109.2
20	JH 273	93.8	128.1	115.0	90.0	112.7	120.5	110.0	90.0	113.3	101.7	101.5
21	DKC 9188(IR8737)	82.5	134.5	113.0	96.7	113.3	92.9	105.5	113.3	107.5	110.4	103.3
22	PM16202L	83.2	126.1	116.7	101.7	120.0	97.0	107.4	115.0	83.2	99.1	106.1
23	IH-031	71.2	114.7	105.7	91.7	104.3	74.5	93.7	105.0	95.0	100.0	91.6
24	Rasi 1107	82.6	135.7	107.7	85.0	106.0	88.1	100.8	120.0	99.2	109.6	100.9
25	PM16203L	78.1	139.9	103.7	80.0	121.7	90.9	102.4	128.3	94.2	111.3	100.6
26	PM16207L	113.8	141.7	137.7	108.3	124.3	120.7	124.4	120.0	111.7	115.8	121.5
27	KH-1226	92.3	131.4	113.3	91.7	116.0	105.3	108.3	130.0	107.5	118.8	107.2
28	Star-47	75.5	132.4	124.7	95.0	106.3	100.6	105.8	120.0	97.5	108.8	102.5
29	MM2033	78.9	135.8	128.0	98.3	119.7	100.2	110.2	98.3	89.2	93.8	108.1
30	JH 358	97.3	125.0	98.3	85.0	111.7	103.5	103.5	108.3	115.0	111.7	98.3

TABLE No. 1 (Contd.)

Sl	Entry Name	EAR HEIGHT										
		4							5			All India
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
31	IH-0712	71.0	122.6	91.3	63.3	103.3	68.9	86.7	126.7	108.3	117.5	84.8
32	CMH 2725	86.4	146.6	121.0	85.0	117.3	109.4	111.0	106.7	94.2	100.4	105.1
33	KWS-8933	99.4	148.1	114.7	86.7	119.7	105.8	112.4	110.0	97.5	103.8	110.6
34	HT 16047	94.8	147.2	127.0	95.0	119.3	109.1	115.4	121.7	101.7	111.7	108.5
35	PM16204L	75.8	124.6	110.3	86.7	115.0	91.4	100.6	103.3	113.3	108.3	98.3
36	VNR-32994	86.0	119.5	110.7	90.0	119.7	87.5	102.2	111.7	90.2	100.9	105.2
37	Star-57	75.9	122.3	102.7	83.3	113.3	111.9	101.6	125.0	113.3	119.2	102.8
38	BIO 305	88.0	125.8	110.0	93.3	115.0	108.8	106.8	126.7	131.7	129.2	104.5
39	REH-2014-6	83.5	130.1	106.7	76.7	101.7	100.7	99.9	110.0	103.3	106.7	98.5
40	IH-0330	71.8	137.3	102.7	81.7	118.7	91.2	100.6	111.7	98.3	105.0	94.9
41	JH 409	102.6	135.5	143.3	91.7	128.3	121.8	120.5	123.3	90.8	107.1	115.5
42	PM16206L	98.4	142.3	124.3	91.7	122.7	98.5	113.0	121.7	115.8	118.8	107.1
43	GK3208	76.3	131.2	111.0	105.0	86.7	114.1	104.0	133.3	98.2	115.8	99.2
44	PM16205L	85.8	136.3	135.3	115.0	120.0	104.1	116.1	123.3	104.2	113.8	111.7
45	P3522 (C)	102.5	149.3	127.7	118.3	119.0	112.0	121.5	118.3	98.3	108.3	117.9
46	Seedtech 2324 (C)	79.7	144.3	107.0	98.3	117.7	105.1	108.7	110.0	89.2	99.6	106.2
47	Buland (C)	86.9	143.9	135.7	106.7	121.3	111.0	117.6	115.0	87.5	101.3	113.3
48	Bio 9981 (C)	98.6	144.3	119.0	103.3	120.0	98.4	113.9	111.7	92.5	102.1	108.8
	General Mean	86.9	132.9	114.8	91.8	115.1	100.9	107.1	116.6	105.1	110.9	104.4
	CV(%)	7.5	9.7	7.9	18.0	4.7	3.8	9.4	13.6	45.0	29.3	9.4
	P-Value	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.7	0.4	0.0
	CD (5%)	10.6	20.8	14.7	26.7	8.7	6.3	8.7	25.7	95.2	60.4	6.0

TABLE No. 2: PERFORMANCE OF EXPERIMENTAL HYBRIDS/SINGLE CROSSES/TOP CROSSES & COMPOSITES AT KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, BHUBANESHWAR, DHOLI, KALYANI, RANCHI, SABOUR, VARANASI, COIMBATORE, DHARWAD, KARIMNAGAR, KOLHAPUR, RAHURI, VAGARAI, BANSWARA, GODHRA IN TRIAL No. TR2 DURING RABI (2016-17)

Sl	Entry Name	GRAIN YIELD (kg/ha) AT 15% MOISTURE																							
		2								3															
		Karnal		Ludhiana		Pantnagar		Zone		Bahraich		Bhubaneswar		Dholi		Kalyani		Ranchi		Sabour		Varanasi		Zone	
Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank
1	IMHBG16R-7	8303	12	5906	33	10675	17	8294	24	6952	12	5088	33	5730	13	8990	30	11668	9	873	21	5972	30	7074	17
2	REH-2015-2	7157	28	6033	32	6897	34	6695	34	2890	35	5904	22	4694	25	12168	9	9119	26	900	18	6295	22	5780	34
3	100K-16	8725	3	8030	8	13482	5	10079	5	8206	3	6422	13	6912	7	10909	20	10466	20	819	28	8990	1	8194	5
4	IMHBG16R-4	7085	30	6889	27	11458	9	8477	19	4510	30	5786	25	6017	12	12070	10	11961	7	792	30	6342	21	6912	20
5	HKH 360	8351	9	7660	14	8955	28	8322	23	3949	32	7210	4	5212	23	8252	34	10214	21	890	19	5450	33	6404	27
6	CP.898	7503	21	9866	3	15301	4	10890	4	7338	8	6651	11	7103	6	10110	27	11127	13	756	33	8910	2	8228	4
7	VaMH 12013	8719	4	8898	5	10956	12	9525	7	5964	21	6263	16	5357	20	11104	18	11516	11	1076	4	7719	4	7358	12
8	IMH16-14	7702	16	7119	21	10633	18	8485	18	7376	7	5695	27	5346	21	9952	29	10703	17	906	17	7533	6	7330	13
9	DKC8185(IR8332)	7528	20	11083	1	15959	2	11523	1	10085	1	7326	2	9679	1	13019	3	14175	2	915	15	7125	14	9670	1
10	WH 1010	7529	19	7177	19	10865	13	8524	17	5508	24	6666	10	4673	26	10763	24	9201	25	916	14	7265	12	6667	23
11	IMH16-12	8256	14	8430	7	12538	6	9741	6	9105	2	6932	7	6199	10	11297	16	10606	18	879	20	7207	13	8014	6
12	100 K-18	7280	27	10601	2	16178	1	11353	2	6366	16	5080	34	4319	29	13446	1	14882	1	997	10	7644	5	7633	9
13	KH-7502	7103	29	7747	11	10720	15	8524	16	7085	10	5531	28	6370	8	10880	21	9658	23	1302	1	7394	10	7213	15
14	VEH-16-1	8369	8	7405	17	9849	22	8541	15	6361	17	5476	30	4253	30	12607	6	12247	6	939	13	6218	25	6898	21
15	IMH16-13	8275	13	7671	13	10012	20	8652	12	6677	15	5413	32	5318	22	10687	25	8553	33	839	25	6611	19	6522	25
16	IMHBG16R-3	8384	7	7079	22	10479	19	8648	13	5152	26	5517	29	6018	11	12755	5	10583	19	832	26	4599	34	6368	28
17	IMHBG16R-2	7342	25	7846	9	9539	26	8243	26	5379	25	5833	24	7184	5	12305	8	11752	8	1051	5	6798	17	7382	11
18	MMH15-8	6510	35	7403	18	9843	23	7919	29	6318	19	6951	6	6287	9	8645	32	9092	27	990	11	6948	16	7128	16
19	IMHBG16R-9	6584	34	7793	10	10708	16	8362	22	7306	9	6576	12	3961	32	10543	26	10030	22	1097	3	5716	31	6718	22
20	IMHBG16R-5	7655	17	7644	15	11456	10	8918	8	5668	22	6115	19	5430	18	10773	23	11399	12	853	23	6275	24	6970	18
21	HKH 359	8927	1	6754	28	8838	29	8173	27	4730	28	6173	17	5697	14	11951	12	8827	29	941	12	5687	32	6227	30
22	IMHBG16R-8	6949	31	7515	16	10778	14	8414	21	4419	31	6772	8	4668	27	11062	19	10852	16	1129	2	6290	23	6594	24
23	MMH15-9	6865	32	5695	34	8418	30	6993	32	5598	23	5426	31	4837	24	8881	31	7405	34	1032	7	3802	35	5422	35
24	IMHBG16R-10	7439	22	6966	25	9741	24	8049	28	6936	13	5912	21	8297	3	13091	2	10959	15	736	34	6374	20	7696	8
25	AH 7005	8813	2	6989	24	7393	33	7731	30	6143	20	5898	23	5418	19	12603	7	6499	35	788	32	5976	29	6005	32

TABLE No. 2: PERFORMANCE OF EXPERIMENTAL HYBRIDS/SINGLE CROSSES/TOP CROSSES & COMPOSITES AT KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, BHUBANESHWAR, DHOLI, KALYANI, RANCHI, SABOUR, VARANASI, COIMBATORE, DHARWAD, KARIMNAGAR, KOLHAPUR, RAHURI, VAGARAI, BANSWARA, GODHRA IN TRIAL No. TR2 DURING RABI (2016-17)

SI	Entry Name	GRAIN YIELD (kg/ha) AT 15% MOISTURE																							
		2								3															
		Karnal		Ludhiana		Pantnagar		Zone		Bahraich		Bhubaneshwar		Dholi		Kalyani		Ranchi		Sabour		Varanasi		Zone	
Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank		
26	IMHBG16R-6	8664	5	7709	12	9001	27	8458	20	6847	14	5962	20	7833	4	11405	14	13376	3	1037	6	7911	3	8375	2
27	HKH 358	7852	15	6948	26	9979	21	8259	25	7998	5	4645	35	3861	33	10066	28	8764	30	870	22	6031	27	6265	29
28	IMHBG16R-1	7561	18	7175	20	11620	7	8786	10	4907	27	7529	1	3687	34	8534	33	8740	31	1014	9	7459	9	6471	26
29	REH-2014-3	8310	11	4413	35	6605	35	6443	35	4672	29	5732	26	4416	28	11953	11	8861	28	789	31	6775	18	6118	31
30	IMH16-15	7351	24	9372	4	9728	25	8817	9	3862	33	7294	3	5510	17	11589	13	12306	5	691	35	7479	8	7279	14
31	REH-2015-1	6860	33	6120	31	7471	32	6817	33	3712	34	6147	18	4214	31	12899	4	9264	24	1015	8	6018	28	5870	33
32	HM 10 (C)	7426	23	7045	23	8407	31	7626	31	7928	6	6281	15	9096	2	10861	22	11042	14	832	27	7108	15	8294	3
33	DHM 117 (C)	8342	10	6415	30	11219	11	8658	11	6961	11	6704	9	3266	35	11325	15	11566	10	851	24	6191	26	6929	19
34	Bio 9544(C)	8529	6	8701	6	15953	3	11061	3	6331	18	6387	14	5647	15	4032	35	13026	4	912	16	7387	11	7743	7
35	Bio 9637 (C)	7334	26	6741	29	11613	8	8562	14	8170	4	7066	5	5532	16	11219	17	8710	32	793	29	7531	7	7414	10
	General Mean	7760	.	7510	.	10665	.	8645	.	6212	.	6182	.	5658	.	10936	.	10570	.	916	.	6715	.	7062	.
	CV(%)	18	.	12	.	14	.	15	.	11	.	6	.	5	.	25	.	8	.	24	.	8	.	8	.
	P-Value	1	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.
	CD (5%)	2219	.	1448	.	2414	.	2231	.	1093	.	575	.	439	.	4468	.	1700	.	355	.	851	.	1502	.
	Plot Size	6		5.28		6				4.8		4.8		4		6		5.6		4.8		4.8			
	AGRONOMY DATA																								
	Sowing Date	29-11-16		2-2-17		20-12-16				3-12-16		9-12-16		5-12-16		6-12-16		3-2-17		9-12-16		1-12-16			
	Harvest Date	23-5-17		15-6-17		8-5-17				11-5-17		29-4-17		7-5-17		NA		19-6-17		1-6-17		2-5-17			
	Irrigation Nos	8		15		6				5		NA		2		5		8		6		NA			
	Fertilizer Applied N	180		50		120				150		120		150		150		140		130		150			
	Fertilizer Applied P	60		24		60				75		60		70		5		60		75		75			
	Fertilizer Applied K	60		12		60				60		60		60		75		40		50		60			

TABLE No. 2: Contd.

Sl	Entry Name	GRAIN YIELD (kg/ha) AT 15% MOISTURE																					
		4														5					All India		
		Coimbatore		Dharwad		Karimnagar		Kolhapur		Rahuri		Vagarai		Zone		Banswara		Godhra		Zone	All India		
Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank		
1	IMHBG16R-7	6806	29	6825	19	6463	15	5206	29	4696	20	7852	15	6308	20	10069	16	5500	9	7785	10	7088	20
2	REH-2015-2	4909	34	5278	30	6512	13	4789	32	5855	1	5312	32	5443	31	6886	35	4405	23	5645	32	5797	34
3	100K-16	9605	8	9356	1	7391	8	8199	2	4840	15	8855	7	8041	3	9142	25	4317	24	6730	28	8297	4
4	IMHBG16R-4	8887	13	6898	17	7070	9	6270	14	4740	18	8601	10	7078	11	9737	17	5099	16	7418	20	7315	13
5	HKH 360	6995	28	6963	14	4359	29	5847	18	4248	27	6955	24	5895	26	9174	24	5297	12	7236	21	6664	29
6	CP.898	11166	2	8482	5	6135	17	7264	6	5580	2	9467	3	8016	4	8722	28	5131	15	6926	25	8476	3
7	VaMH 12013	9305	11	8331	7	7968	3	5314	26	4976	12	8132	12	7338	9	13116	2	4477	22	8796	2	7925	6
8	IMH16-14	8840	14	7463	12	6368	16	5670	22	3881	31	6987	23	6535	16	11621	3	3725	30	7673	13	7279	15
9	DKC8185(IR8332)	10967	3	9286	2	6969	10	7215	7	4991	11	9203	5	8105	2	11301	4	4865	18	8083	7	9215	1
10	WH 1010	7981	19	7520	11	5438	20	6671	12	5054	8	6463	28	6521	17	9564	20	4777	21	7170	23	7016	21
11	IMH16-12	9882	7	6840	18	8102	2	6229	15	5065	7	7473	18	7265	10	7771	33	4128	28	5950	31	7788	7
12	100 K-18	10845	4	8907	4	7520	5	6824	11	5420	5	9557	2	8179	1	14625	1	5364	10	9995	1	8812	2
13	KH-7502	7288	24	6726	21	7431	7	6881	10	4953	13	5302	33	6430	18	9368	22	6196	4	7782	11	7227	16
14	VEH-16-1	9105	12	6310	25	5510	19	6381	13	5009	10	8771	9	6848	12	10469	11	5992	6	8230	4	7338	11
15	IMH16-13	8500	15	6751	20	5947	18	6894	9	4725	19	6857	26	6612	15	9676	18	5782	7	7729	12	7102	18
16	IMHBG16R-3	9566	9	5914	27	3281	34	5306	27	4764	16	8564	11	6232	23	8968	26	6319	2	7644	15	6892	23
17	IMHBG16R-2	6376	30	7539	10	5303	21	6015	16	4675	22	7892	14	6300	22	8223	29	6109	5	7166	24	7094	19
18	MMH15-8	7406	22	5250	31	3822	32	5029	30	4478	25	7012	22	5500	30	10337	15	4134	27	7235	22	6669	28
19	IMHBG16R-9	7990	18	6898	16	7475	6	4477	34	5464	4	7915	13	6703	14	10516	10	4782	20	7649	14	7127	17
20	IMHBG16R-5	8002	17	6394	24	4408	28	5981	17	4619	24	6309	29	5952	25	6941	34	4222	26	5581	33	6764	25
21	HKH 359	7356	23	6929	15	4151	30	6975	8	4329	26	7312	20	6175	24	7959	31	4293	25	6126	29	6552	30
22	IMHBG16R-8	9521	10	7884	8	7756	4	7618	3	3608	35	9069	6	7576	7	10416	14	3184	32	6800	27	7318	12
23	MMH15-9	5360	33	2574	35	3712	33	5321	25	4130	29	5050	34	4358	35	10442	13	3292	31	6867	26	5491	35
24	IMHBG16R-10	8134	16	6449	23	9006	1	7356	4	4675	23	8826	8	7408	8	9592	19	5341	11	7466	18	7613	9
25	AH 7005	7901	20	5929	26	6507	14	4660	33	5209	6	7603	16	6302	21	7913	32	2859	34	5386	35	6362	31

TABLE No. 2: Contd.

Sl	Entry Name	GRAIN YIELD (kg/ha) AT 15% MOISTURE																					
		4													5				All India				
		Coimbatore		Dharwad		Karimnagar		Kolhapur		Rahuri		Vagarai		Zone		Banswara		Godhra		Zone			
Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank				
26	IMHBG16R-6	7180	26	5695	28	4873	22	4382	35	4741	17	6859	25	5622	29	11231	6	5025	17	8128	6	7304	14
27	HKH 358	7893	21	5661	29	3159	35	5480	24	4216	28	7483	17	5649	28	10687	9	6295	3	8491	3	6679	27
28	IMHBG16R-1	7139	27	7675	9	4847	24	7279	5	3741	34	7179	21	6310	19	8206	30	2932	33	5569	34	6725	26
29	REH-2014-3	4455	35	3996	34	4455	27	5679	21	3777	33	4641	35	4500	34	10986	7	5277	13	8132	5	5809	33
30	IMH16-15	9997	6	8359	6	6694	12	5740	19	5032	9	9891	1	7619	6	11240	5	3727	29	7484	17	7705	8
31	REH-2015-1	5846	32	4783	33	4555	26	5720	20	3993	30	6758	27	5276	33	10444	12	5162	14	7803	9	6055	32
32	HM 10 (C)	6281	31	6687	22	3847	31	4830	31	4686	21	5652	31	5331	32	9217	23	5703	8	7460	19	6936	22
33	DHM 117 (C)	7275	25	5216	32	4853	23	5649	23	5577	3	5958	30	5755	27	8829	27	6384	1	7606	16	6881	24
34	Bio 9544(C)	11202	1	9272	3	4778	25	8295	1	4885	14	9304	4	7956	5	9374	21	2585	35	5980	30	8209	5
35	Bio 9637 (C)	10154	5	7088	13	6756	11	5286	28	3804	32	7341	19	6738	13	10851	8	4849	19	7850	8	7425	10
	General Mean	8175	.	6804	.	5812	.	6078	.	4698	.	7497	.	6511	.	9818	.	4787	.	7302	.	7170	.
	CV(%)	10	.	17	.	13	.	8	.	14	.	9	.	12	.	13	.	17	.	15	.	12	.
	P-Value	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.
	CD (5%)	1359	.	1837	.	1226	.	772	.	1107	.	1045	.	1147	.	2140	.	1318	.	2622	.	834	.
	Plot Size	4.8		4.8		6		6		6		4.8				4.8		4.8					
	AGRONOMY DATA																						
	Sowing Date	29-12-16		5-12-16		1-12-16		17-12-16		16-12-16		10-1-17				30-11-16		29-12-16					
	Harvest Date	24-4-17		2-5-17		10-4-17		5-10-17		2-5-17		2-5-17				9-5-17		3-5-17					
	Irrigation Nos	11		8		11		NA		7		11				6		7					
	Fertilizer Applied N	250		150		240		NA		120		250				200		120					
	Fertilizer Applied P	75		65		60		NA		60		75				80		60					
	Fertilizer Applied K	75		65		60		NA		60		75				0		0					

TABLE No. 2 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER HM 10											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
1	IMHBG16R-7	11.8	-16.2	27.0	8.8	-12.3	-19.0	-37.0	-17.2	5.7	4.9	-16.0	-14.7
2	REH-2015-2	-3.6	-14.4	-18.0	-12.2	-63.5	-6.0	-48.4	12.0	-17.4	8.1	-11.4	-30.3
3	100K-16	17.5	14.0	60.4	32.2	3.5	2.2	-24.0	0.4	-5.2	-1.6	26.5	-1.2
4	IMHBG16R-4	-4.6	-2.2	36.3	11.2	-43.1	-7.9	-33.9	11.1	8.3	-4.9	-10.8	-16.7
5	HKH 360	12.5	8.7	6.5	9.1	-50.2	14.8	-42.7	-24.0	-7.5	6.9	-23.3	-22.8
6	CP.898	1.0	40.0	82.0	42.8	-7.4	5.9	-21.9	-6.9	0.8	-9.1	25.4	-0.8
7	VaMH 12013	17.4	26.3	30.3	24.9	-24.8	-0.3	-41.1	2.2	4.3	29.3	8.6	-11.3
8	IMH16-14	3.7	1.0	26.5	11.3	-7.0	-9.3	-41.2	-8.4	-3.1	8.9	6.0	-11.6
9	DKC8185(IR8332)	1.4	57.3	89.8	51.1	27.2	16.6	6.4	19.9	28.4	9.9	0.3	16.6
10	WH 1010	1.4	1.9	29.2	11.8	-30.5	6.1	-48.6	-0.9	-16.7	10.1	2.2	-19.6
11	IMH16-12	11.2	19.7	49.1	27.7	14.8	10.4	-31.9	4.0	-4.0	5.6	1.4	-3.4
12	100 K-18	-2.0	50.5	92.4	48.9	-19.7	-19.1	-52.5	23.8	34.8	19.8	7.6	-8.0
13	KH-7502	-4.4	10.0	27.5	11.8	-10.6	-11.9	-30.0	0.2	-12.5	56.4	4.0	-13.0
14	VEH-16-1	12.7	5.1	17.2	12.0	-19.8	-12.8	-53.2	16.1	10.9	12.8	-12.5	-16.8
15	IMH16-13	11.4	8.9	19.1	13.5	-15.8	-13.8	-41.5	-1.6	-22.5	0.8	-7.0	-21.4
16	IMHBG16R-3	12.9	0.5	24.6	13.4	-35.0	-12.2	-33.8	17.4	-4.2	0.0	-35.3	-23.2
17	IMHBG16R-2	-1.1	11.4	13.5	8.1	-32.2	-7.1	-21.0	13.3	6.4	26.3	-4.4	-11.0
18	MMH15-8	-12.3	5.1	17.1	3.8	-20.3	10.7	-30.9	-20.4	-17.7	18.9	-2.2	-14.1
19	IMHBG16R-9	-11.3	10.6	27.4	9.6	-7.8	4.7	-56.5	-2.9	-9.2	31.8	-19.6	-19.0
20	IMHBG16R-5	3.1	8.5	36.3	16.9	-28.5	-2.7	-40.3	-0.8	3.2	2.5	-11.7	-16.0
21	HKH 359	20.2	-4.1	5.1	7.2	-40.3	-1.7	-37.4	10.0	-20.1	13.1	-20.0	-24.9
22	IMHBG16R-8	-6.4	6.7	28.2	10.3	-44.3	7.8	-48.7	1.9	-1.7	35.6	-11.5	-20.5
23	MMH15-9	-7.6	-19.2	0.1	-8.3	-29.4	-13.6	-46.8	-18.2	-32.9	24.0	-46.5	-34.6
24	IMHBG16R-10	0.2	-1.1	15.9	5.5	-12.5	-5.9	-8.8	20.5	-0.8	-11.5	-10.3	-7.2
25	AH 7005	18.7	-0.8	-12.1	1.4	-22.5	-6.1	-40.4	16.0	-41.1	-5.3	-15.9	-27.6
26	IMHBG16R-6	16.7	9.4	7.1	10.9	-13.6	-5.1	-13.9	5.0	21.1	24.6	11.3	1.0
27	HKH 358	5.7	-1.4	18.7	8.3	0.9	-26.1	-57.6	-7.3	-20.6	4.5	-15.2	-24.5
28	IMHBG16R-1	1.8	1.8	38.2	15.2	-38.1	19.9	-59.5	-21.4	-20.9	21.9	5.0	-22.0
29	REH-2014-3	11.9	-37.4	-21.4	-15.5	-41.1	-8.8	-51.5	10.1	-19.8	-5.2	-4.7	-26.3
30	IMH16-15	-1.0	33.0	15.7	15.6	-51.3	16.1	-39.4	6.7	11.4	-17.0	5.2	-12.2
31	REH-2015-1	-7.6	-13.1	-11.1	-10.6	-53.2	-2.1	-53.7	18.8	-16.1	21.9	-15.3	-29.2
32	HM 10 (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	DHM 117 (C)	12.3	-9.0	33.4	13.5	-12.2	6.7	-64.1	4.3	4.7	2.2	-12.9	-16.5
34	Bio 9544(C)	14.9	23.5	89.8	45.0	-20.1	1.7	-37.9	-62.9	18.0	9.6	3.9	-6.7
35	Bio 9637 (C)	-1.3	-4.3	38.1	12.3	3.1	12.5	-39.2	3.3	-21.1	-4.7	6.0	-10.6

TABLE No. 2 (Cont)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER HM 10										
		4							5			All India
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	
1	IMHBG16R-7	8.4	2.1	68.0	7.8	0.2	38.9	18.3	9.3	-3.6	4.4	2.2
2	REH-2015-2	-21.8	-21.1	69.3	-0.9	25.0	-6.0	2.1	-25.3	-22.8	-24.3	-16.4
3	100K-16	52.9	39.9	92.1	69.8	3.3	56.7	50.9	-0.8	-24.3	-9.8	19.6
4	IMHBG16R-4	41.5	3.2	83.8	29.8	1.2	52.2	32.8	5.6	-10.6	-0.6	5.5
5	HKH 360	11.4	4.1	13.3	21.1	-9.3	23.1	10.6	-0.5	-7.1	-3.0	-3.9
6	CP.898	77.8	26.9	59.5	50.4	19.1	67.5	50.4	-5.4	-10.0	-7.2	22.2
7	VaMH 12013	48.1	24.6	107.1	10.0	6.2	43.9	37.7	42.3	-21.5	17.9	14.3
8	IMH16-14	40.7	11.6	65.5	17.4	-17.2	23.6	22.6	26.1	-34.7	2.9	4.9
9	DKC8185(IR8332)	74.6	38.9	81.2	49.4	6.5	62.8	52.1	22.6	-14.7	8.4	32.8
10	WH 1010	27.1	12.5	41.4	38.1	7.9	14.4	22.3	3.8	-16.2	-3.9	1.2
11	IMH16-12	57.3	2.3	110.6	29.0	8.1	32.2	36.3	-15.7	-27.6	-20.3	12.3
12	100 K-18	72.7	33.2	95.5	41.3	15.7	69.1	53.4	58.7	-5.9	34.0	27.0
13	KH-7502	16.0	0.6	93.2	42.5	5.7	-6.2	20.6	1.6	8.7	4.3	4.2
14	VEH-16-1	45.0	-5.6	43.2	32.1	6.9	55.2	28.5	13.6	5.1	10.3	5.8
15	IMH16-13	35.3	1.0	54.6	42.7	0.8	21.3	24.1	5.0	1.4	3.6	2.4
16	IMHBG16R-3	52.3	-11.6	-14.7	9.9	1.7	51.5	16.9	-2.7	10.8	2.5	-0.6
17	IMHBG16R-2	1.5	12.7	37.9	24.5	-0.2	39.6	18.2	-10.8	7.1	-3.9	2.3
18	MMH15-8	17.9	-21.5	-0.6	4.1	-4.4	24.1	3.2	12.2	-27.5	-3.0	-3.9
19	IMHBG16R-9	27.2	3.2	94.3	-7.3	16.6	40.0	25.8	14.1	-16.2	2.5	2.8
20	IMHBG16R-5	27.4	-4.4	14.6	23.8	-1.4	11.6	11.7	-24.7	-26.0	-25.2	-2.5
21	HKH 359	17.1	3.6	7.9	44.4	-7.6	29.4	15.9	-13.7	-24.7	-17.9	-5.5
22	IMHBG16R-8	51.6	17.9	101.6	57.7	-23.0	60.4	42.1	13.0	-44.2	-8.8	5.5
23	MMH15-9	-14.7	-61.5	-3.5	10.2	-11.9	-10.7	-18.3	13.3	-42.3	-8.0	-20.8
24	IMHBG16R-10	29.5	-3.6	134.1	52.3	-0.2	56.2	39.0	4.1	-6.4	0.1	9.8
25	AH 7005	25.8	-11.3	69.2	-3.5	11.2	34.5	18.2	-14.2	-49.9	-27.8	-8.3
26	IMHBG16R-6	14.3	-14.8	26.7	-9.3	1.2	21.4	5.5	21.9	-11.9	9.0	5.3
27	HKH 358	25.7	-15.3	-17.9	13.5	-10.0	32.4	6.0	16.0	10.4	13.8	-3.7
28	IMHBG16R-1	13.7	14.8	26.0	50.7	-20.2	27.0	18.4	-11.0	-48.6	-25.4	-3.1
29	REH-2014-3	-29.1	-40.2	15.8	17.6	-19.4	-17.9	-15.6	19.2	-7.5	9.0	-16.3
30	IMH16-15	59.2	25.0	74.0	18.8	7.4	75.0	42.9	22.0	-34.6	0.3	11.1
31	REH-2015-1	-6.9	-28.5	18.4	18.4	-14.8	19.6	-1.0	13.3	-9.5	4.6	-12.7
32	HM 10 (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	DHM 117 (C)	15.8	-22.0	26.2	17.0	19.0	5.4	8.0	-4.2	11.9	2.0	-0.8
34	Bio 9544(C)	78.3	38.7	24.2	71.7	4.2	64.6	49.3	1.7	-54.7	-19.8	18.3
35	Bio 9637 (C)	61.7	6.0	75.6	9.4	-18.8	29.9	26.4	17.7	-15.0	5.2	7.1

TABLE No. 2 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER DHM117											
		2						3					
		Karnal Ludhiana Pantnagar Zone Mean						Bahraich Bhubaneshwar Dholi Kalyani Ranchi Sabour Varanasi Zone Mean					
1	IMHBG16R-7	-0.5	-7.9	-4.9	-4.2	-0.1	-24.1	75.5	-20.6	0.9	2.6	-3.5	2.1
2	REH-2015-2	-14.2	-6.0	-38.5	-22.7	-58.5	-11.9	43.8	7.4	-21.2	5.7	1.7	-16.6
3	100K-16	4.6	25.2	20.2	16.4	17.9	-4.2	111.7	-3.7	-9.5	-3.8	45.2	18.3
4	IMHBG16R-4	-15.1	7.4	2.1	-2.1	-35.2	-13.7	84.2	6.6	3.4	-6.9	2.5	-0.2
5	HKH 360	0.1	19.4	-20.2	-3.9	-43.3	7.5	59.6	-27.1	-11.7	4.6	-12.0	-7.6
6	CP.898	-10.1	53.8	36.4	25.8	5.4	-0.8	117.5	-10.7	-3.8	-11.1	43.9	18.8
7	VaMH 12013	4.5	38.7	-2.3	10.0	-14.3	-6.6	64.0	-2.0	-0.4	26.5	24.7	6.2
8	IMH16-14	-7.7	11.0	-5.2	-2.0	6.0	-15.1	63.7	-12.1	-7.5	6.5	21.7	5.8
9	DKC8185(IR8332)	-9.8	72.8	42.3	33.1	44.9	9.3	196.4	15.0	22.6	7.5	15.1	39.6
10	WH 1010	-9.8	11.9	-3.2	-1.6	-20.9	-0.6	43.1	-5.0	-20.4	7.7	17.4	-3.8
11	IMH16-12	-1.0	31.4	11.8	12.5	30.8	3.4	89.8	-0.2	-8.3	3.3	16.4	15.7
12	100 K-18		65.3	44.2	31.1	-8.6	-24.2	32.3	18.7	28.7	17.2	23.5	10.2
13	KH-7502	-14.9	20.8	-4.4	-1.6	1.8	-17.5	95.1	-3.9	-16.5	53.0	19.4	4.1
14	VEH-16-1	0.3	15.4	-12.2	-1.4	-8.6	-18.3	30.3	11.3	5.9	10.4	0.5	-0.4
15	IMH16-13	-0.8	19.6	-10.8	-0.1	-4.1	-19.3	62.9	-5.6	-26.1	-1.4	6.8	-5.9
16	IMHBG16R-3	0.5	10.4	-6.6	-0.1	-26.0	-17.7	84.3	12.6	-8.5	-2.2	-25.7	-8.1
17	IMHBG16R-2	-12.0	22.3	-15.0	-4.8	-22.7	-13.0	120.0	8.7	1.6	23.6	9.8	6.6
18	MMH15-8	-22.0	15.4	-12.3	-8.5	-9.2	3.7	92.5	-23.7	-21.4	16.3	12.2	2.9
19	IMHBG16R-9	-21.1	21.5	-4.6	-3.4	5.0	-1.9	21.3	-6.9	-13.3	28.9	-7.7	-3.0
20	IMHBG16R-5	-8.2	19.2	2.1	3.0	-18.6	-8.8	66.3	-4.9	-1.4	0.2	1.4	0.6
21	HKH 359	7.0	5.3	-21.2	-5.6	-32.1	-7.9	74.5	5.5	-23.7	10.6	-8.1	-10.1
22	IMHBG16R-8	-16.7	17.2	-3.9	-2.8	-36.5	1.0	42.9	-2.3	-6.2	32.7	1.6	-4.8
23	MMH15-9	-17.7	-11.2	-25.0	-19.2	-19.6	-19.1	48.1	-21.6	-36.0	21.3	-38.6	-21.8
24	IMHBG16R-10	-10.8	8.6	-13.2	-7.0	-0.4	-11.8	154.1	15.6	-5.3	-13.5	3.0	11.1
25	AH 7005	5.6	9.0	-34.1	-10.7	-11.8	-12.0	65.9	11.3	-43.8	-7.4	-3.5	-13.3
26	IMHBG16R-6	3.9	20.2	-19.8	-2.3	-1.6	-11.1	139.9	0.7	15.7	21.9	27.8	20.9
27	HKH 358	-5.9	8.3	-11.1	-4.6	14.9	-30.7	18.2	-11.1	-24.2	2.2	-2.6	-9.6
28	IMHBG16R-1	-9.4	11.9	3.6	1.5	-29.5	12.3	12.9	-24.7	-24.4	19.2	20.5	-6.6
29	REH-2014-3	-0.4	-31.2	-41.1	-25.6	-32.9	-14.5	35.2	5.6	-23.4	-7.3	9.4	-11.7
30	IMH16-15	-11.9	46.1	-13.3	1.8	-44.5	8.8	68.7	2.3	6.4	-18.8	20.8	5.1
31	REH-2015-1	-17.8	-4.6	-33.4	-21.3	-46.7	-8.3	29.0	13.9	-19.9	19.3	-2.8	-15.3
32	HM 10 (C)	-11.0	9.8	-25.1	-11.9	13.9	-6.3	178.6	-4.1	-4.5	-2.2	14.8	19.7
33	DHM 117 (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	Bio 9544(C)	2.2	35.6	42.2	27.8	-9.1	-4.7	72.9	-64.4	12.6	7.2	19.3	11.8
35	Bio 9637 (C)	-12.1	5.1	3.5	-1.1	17.4	5.4	69.4	-0.9	-24.7	-6.8	21.7	7.0

TABLE No. 2 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER DHM117										
		4							5			
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	All India
1	IMHBG16R-7	-6.5	30.8	33.2	-7.8	-15.8	31.8	9.6	14.1	-13.9	2.4	3.0
2	REH-2015-2	-32.5	1.2	34.2	-15.2	5.0	-10.9	-5.4	-22.0	-31.0	-25.8	-15.8
3	100K-16	32.0	79.4	52.3	45.2	-13.2	48.6	39.7	3.6	-32.4	-11.5	20.6
4	IMHBG16R-4	22.2	32.2	45.7	11.0	-15.0	44.4	23.0	10.3	-20.1	-2.5	6.3
5	HKH 360	-3.8	33.5	-10.2	3.5	-23.8	16.7	2.4	3.9	-17.0	-4.9	-3.2
6	CP.898	53.5	62.6	26.4	28.6	0.1	58.9	39.3	-1.2	-19.6	-8.9	23.2
7	VaMH 12013	27.9	59.7	64.2	-5.9	-10.8	36.5	27.5	48.6	-29.9	15.6	15.2
8	IMH16-14	21.5	43.1	31.2	0.4	-30.4	17.3	13.6	31.6	-41.7	0.9	5.8
9	DKC8185(IR8332)	50.8	78.0	43.6	27.7	-10.5	54.5	40.9	28.0	-23.8	6.3	33.9
10	WH 1010	9.7	44.2	12.0	18.1	-9.4	8.5	13.3	8.3	-25.2	-5.7	2.0
11	IMH16-12	35.8	31.1	66.9	10.3	-9.2	25.4	26.3	-12.0	-35.3	-21.8	13.2
12	100 K-18	49.1	70.8	55.0	20.8	-2.8	60.4	42.1	65.7	-16.0	31.4	28.1
13	KH-7502	0.2	28.9	53.1	21.8	-11.2	-11.0	11.7	6.1	-2.9	2.3	5.0
14	VEH-16-1	25.2	21.0	13.5	13.0	-10.2	47.2	19.0	18.6	-6.2	8.2	6.6
15	IMH16-13	16.9	29.4	22.5	22.0	-15.3	15.1	14.9	9.6	-9.4	1.6	3.2
16	IMHBG16R-3	31.5	13.4	-32.4	-6.1	-14.6	43.7	8.3	1.6	-1.0	0.5	0.2
17	IMHBG16R-2	-12.4	44.5	9.3	6.5	-16.2	32.5	9.5	-6.9	-4.3	-5.8	3.1
18	MMH15-8	1.8	0.7	-21.2	-11.0	-19.7	17.7	-4.4	17.1	-35.2	-4.9	-3.1
19	IMHBG16R-9	9.8	32.2	54.0	-20.8	-2.0	32.8	16.5	19.1	-25.1	0.6	3.6
20	IMHBG16R-5	10.0	22.6	-9.2	5.9	-17.2	5.9	3.4	-21.4	-33.9	-26.6	-1.7
21	HKH 359	1.1	32.8	-14.5	23.5	-22.4	22.7	7.3	-9.9	-32.8	-19.5	-4.8
22	IMHBG16R-8	30.9	51.1	59.8	34.9	-35.3	52.2	31.7	18.0	-50.1	-10.6	6.4
23	MMH15-9	-26.3	-50.7	-23.5	-5.8	-26.0	-15.2	-24.3	18.3	-48.4	-9.7	-20.2
24	IMHBG16R-10	11.8	23.6	85.6	30.2	-16.2	48.1	28.7	8.7	-16.3	-1.8	10.6
25	AH 7005	8.6	13.7	34.1	-17.5	-6.6	27.6	9.5	-10.4	-55.2	-29.2	-7.6
26	IMHBG16R-6	-1.3	9.2	0.4	-22.4	-15.0	15.1	-2.3	27.2	-21.3	6.9	6.2
27	HKH 358	8.5	8.5	-34.9	-3.0	-24.4	25.6	-1.8	21.1	-1.4	11.6	-2.9
28	IMHBG16R-1	-1.9	47.1	-0.1	28.9	-32.9	20.5	9.7	-7.1	-54.1	-26.8	-2.3
29	REH-2014-3	-38.8	-23.4	-8.2	0.5	-32.3	-22.1	-21.8	24.4	-17.3	6.9	-15.6
30	IMH16-15	37.4	60.3	37.9	1.6	-9.8	66.0	32.4	27.3	-41.6	-1.6	12.0
31	REH-2015-1	-19.6	-8.3	-6.2	1.3	-28.4	13.4	-8.3	18.3	-19.1	2.6	-12.0
32	HM 10 (C)	-13.7	28.2	-20.7	-14.5	-16.0	-5.1	-7.4	4.4	-10.7	-1.9	0.8
33	DHM 117 (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	Bio 9544(C)	54.0	77.8	-1.6	46.9	-12.4	56.2	38.3	6.2	-59.5	-21.4	19.3
35	Bio 9637 (C)	39.6	35.9	39.2	-6.4	-31.8	23.2	17.1	22.9	-24.1	3.2	7.9

TABLE No. 2 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Bio 9544											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
1	IMHBG16R-7	-2.7	-32.1	-33.1	-25.0	-8.7	9.8	-20.3	1.5	123.0	-10.4	-4.3	-19.2
2	REH-2015-2	-16.1	-30.7	-56.8	-39.5	-25.4	-54.4	-7.6	-16.9	201.8	-30.0	-1.4	-14.8
3	100K-16	2.3	-7.7	-15.5	-8.9	5.8	29.6	0.6	22.4	170.6	-19.7	-10.2	21.7
4	IMHBG16R-4	-16.9	-20.8	-28.2	-23.4	-10.7	-28.8	-9.4	6.6	199.4	-8.2	-13.2	-14.2
5	HKH 360	-2.1	-12.0	-43.9	-24.8	-17.3	-37.6	12.9	-7.7	104.7	-21.6	-2.5	-26.2
6	CP.898	-12.0	13.4	-4.1	-1.5	6.3	15.9	4.1	25.8	150.8	-14.6	-17.1	20.6
7	VaMH 12013	2.2	2.3	-31.3	-13.9	-5.0	-5.8	-1.9	-5.1	175.4	-11.6	17.9	4.5
8	IMH16-14	-9.7	-18.2	-33.4	-23.3	-5.3	16.5	-10.8	-5.3	146.8	-17.8	-0.7	2.0
9	DKC8185(IR8332)	-11.7	27.4	0.0	4.2	24.9	59.3	14.7	71.4	222.9	8.8	0.3	-3.6
10	WH 1010	-11.7	-17.5	-31.9	-22.9	-13.9	-13.0	4.4	-17.2	167.0	-29.4	0.4	-1.7
11	IMH16-12	-3.2	-3.1	-21.4	-11.9	3.5	43.8	8.5	9.8	180.2	-18.6	-3.6	-2.5
12	100 K-18	-14.6	21.8	1.4	2.6	-1.4	0.6	-20.5	-23.5	233.5	14.3	9.3	3.5
13	KH-7502	-16.7	-11.0	-32.8	-22.9	-6.8	11.9	-13.4	12.8	169.9	-25.9	42.7	0.1
14	VEH-16-1	-1.9	-14.9	-38.3	-22.8	-10.9	0.5	-14.3	-24.7	212.7	-6.0	2.9	-15.8
15	IMH16-13	-3.0	-11.8	-37.2	-21.8	-15.8	5.5	-15.2	-5.8	165.1	-34.3	-8.0	-10.5
16	IMHBG16R-3	-1.7	-18.6	-34.3	-21.8	-17.8	-18.6	-13.6	6.6	216.4	-18.8	-8.8	-37.7
17	IMHBG16R-2	-13.9	-9.8	-40.2	-25.5	-4.7	-15.0	-8.7	27.2	205.2	-9.8	15.2	-8.0
18	MMH15-8	-23.7	-14.9	-38.3	-28.4	-8.0	-0.2	8.8	11.3	114.4	-30.2	8.5	-6.0
19	IMHBG16R-9	-22.8	-10.4	-32.9	-24.4	-13.2	15.4	3.0	-29.9	161.5	-23.0	20.2	-22.6
20	IMHBG16R-5	-10.3	-12.1	-28.2	-19.4	-10.0	-10.5	-4.3	-3.8	167.2	-12.5	-6.5	-15.1
21	HKH 359	4.7	-22.4	-44.6	-26.1	-19.6	-25.3	-3.4	0.9	196.4	-32.2	3.2	-23.0
22	IMHBG16R-8	-18.5	-13.6	-32.4	-23.9	-14.8	-30.2	6.0	-17.3	174.4	-16.7	23.7	-14.9
23	MMH15-9	-19.5	-34.5	-47.2	-36.8	-30.0	-11.6	-15.1	-14.3	120.3	-43.2	13.1	-48.5
24	IMHBG16R-10	-12.8	-19.9	-38.9	-27.2	-0.6	9.6	-7.4	46.9	224.7	-15.9	-19.3	-13.7
25	AH 7005	3.3	-19.7	-53.7	-30.1	-22.5	-3.0	-7.7	-4.1	212.6	-50.1	-13.6	-19.1
26	IMHBG16R-6	1.6	-11.4	-43.6	-23.5	8.2	8.2	-6.7	38.7	182.9	2.7	13.7	7.1
27	HKH 358	-7.9	-20.2	-37.5	-25.3	-19.1	26.3	-27.3	-31.6	149.7	-32.7	-4.7	-18.4
28	IMHBG16R-1	-11.4	-17.5	-27.2	-20.6	-16.4	-22.5	17.9	-34.7	111.7	-32.9	11.2	1.0
29	REH-2014-3	-2.6	-49.3	-58.6	-41.8	-21.0	-26.2	-10.3	-21.8	196.5	-32.0	-13.6	-8.3
30	IMH16-15	-13.8	7.7	-39.0	-20.3	-6.0	-39.0	14.2	-2.4	187.5	-5.5	-24.3	1.2
31	REH-2015-1	-19.6	-29.7	-53.2	-38.4	-24.2	-41.4	-3.8	-25.4	219.9	-28.9	11.2	-18.5
32	HM 10 (C)	-12.9	-19.0	-47.3	-31.1	7.1	25.2	-1.7	61.1	169.4	-15.2	-8.8	-3.8
33	DHM 117 (C)	-2.2	-26.3	-29.7	-21.7	-10.5	10.0	5.0	-42.2	180.9	-11.2	-6.7	-16.2
34	Bio 9544(C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	Bio 9637 (C)	-14.0	-22.5	-27.2	-22.6	-4.2	29.1	10.6	-2.0	178.3	-33.1	-13.1	1.9

TABLE No. 2 (Cont)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Bio 9544										
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Rahuri	Vagarai	Zone Mean	5			All India
								Banswara	Godhra	Zone Mean		
1	IMHBG16R-7	-39.2	-26.4	35.3	-37.2	-3.9	-15.6	-20.7	30.2	7.4	112.8	-13.7
2	REH-2015-2	-56.2	-43.1	36.3	-42.3	19.9	-42.9	-31.6	-5.6	-26.6	70.4	-29.4
3	100K-16	-14.3	0.9	54.7	-1.2	-0.9	-4.8	1.1	12.5	-2.5	67.0	1.1
4	IMHBG16R-4	-20.7	-25.6	48.0	-24.4	-3.0	-7.6	-11.0	24.1	3.9	97.3	-10.9
5	HKH 360	-37.6	-24.9	-8.8	-29.5	-13.0	-25.3	-25.9	21.0	-2.1	104.9	-18.8
6	CP.898	-0.3	-8.5	28.4	-12.4	14.2	1.8	0.8	15.8	-7.0	98.5	3.3
7	VaMH 12013	-16.9	-10.2	66.8	-35.9	1.9	-12.6	-7.8	47.1	39.9	73.2	-3.5
8	IMH16-14	-21.1	-19.5	33.3	-31.6	-20.6	-24.9	-17.9	28.3	24.0	44.1	-11.3
9	DKC8185(IR8332)	-2.1	0.2	45.9	-13.0	2.2	-1.1	1.9	35.2	20.6	88.2	12.3
10	WH 1010	-28.8	-18.9	13.8	-19.6	3.5	-30.5	-18.0	19.9	2.0	84.8	-14.5
11	IMH16-12	-11.8	-26.2	69.6	-24.9	3.7	-19.7	-8.7	-0.5	-17.1	59.7	-5.1
12	100 K-18	-3.2	-3.9	57.4	-17.7	11.0	2.7	2.8	67.1	56.0	107.5	7.4
13	KH-7502	-34.9	-27.5	55.5	-17.1	1.4	-43.0	-19.2	30.1	-0.1	139.7	-12.0
14	VEH-16-1	-18.7	-32.0	15.3	-23.1	2.5	-5.7	-13.9	37.6	11.7	131.8	-10.6
15	IMH16-13	-24.1	-27.2	24.5	-16.9	-3.3	-26.3	-16.9	29.3	3.2	123.7	-13.5
16	IMHBG16R-3	-14.6	-36.2	-31.3	-36.0	-2.5	-8.0	-21.7	27.8	-4.3	144.5	-16.0
17	IMHBG16R-2	-43.1	-18.7	11.0	-27.5	-4.3	-15.2	-20.8	19.8	-12.3	136.4	-13.6
18	MMH15-8	-33.9	-43.4	-20.0	-39.4	-8.3	-24.6	-30.9	21.0	10.3	59.9	-18.8
19	IMHBG16R-9	-28.7	-25.6	56.4	-46.0	11.9	-14.9	-15.8	27.9	12.2	85.0	-13.2
20	IMHBG16R-5	-28.6	-31.0	-7.8	-27.9	-5.4	-32.2	-25.2	-6.7	-26.0	63.4	-17.6
21	HKH 359	-34.3	-25.3	-13.1	-15.9	-11.4	-21.4	-22.4	2.5	-15.1	66.1	-20.2
22	IMHBG16R-8	-15.0	-15.0	62.3	-8.2	-26.1	-2.5	-4.8	13.7	11.1	23.2	-10.9
23	MMH15-9	-52.2	-72.2	-22.3	-35.9	-15.5	-45.7	-45.2	14.8	11.4	27.4	-33.1
24	IMHBG16R-10	-27.4	-30.5	88.5	-11.3	-4.3	-5.1	-6.9	24.9	2.3	106.6	-7.3
25	AH 7005	-29.5	-36.1	36.2	-43.8	6.6	-18.3	-20.8	-9.9	-15.6	10.6	-22.5
26	IMHBG16R-6	-35.9	-38.6	2.0	-47.2	-3.0	-26.3	-29.3	35.9	19.8	94.4	-11.0
27	HKH 358	-29.5	-39.0	-33.9	-33.9	-13.7	-19.6	-29.0	42.0	14.0	143.6	-18.6
28	IMHBG16R-1	-36.3	-17.2	1.4	-12.3	-23.4	-22.8	-20.7	-6.9	-12.5	13.4	-18.1
29	REH-2014-3	-60.2	-56.9	-6.8	-31.5	-22.7	-50.1	-43.4	36.0	17.2	104.2	-29.2
30	IMH16-15	-10.8	-9.9	40.1	-30.8	3.0	6.3	-4.2	25.2	19.9	44.2	-6.1
31	REH-2015-1	-47.8	-48.4	-4.7	-31.1	-18.3	-27.4	-33.7	30.5	11.4	99.7	-26.2
32	HM 10 (C)	-43.9	-27.9	-19.5	-41.8	-4.1	-39.3	-33.0	24.8	-1.7	120.6	-15.5
33	DHM 117 (C)	-35.1	-43.7	1.6	-31.9	14.2	-36.0	-27.7	27.2	-5.8	147.0	-16.2
34	Bio 9544(C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	Bio 9637 (C)	-9.4	-23.6	41.4	-36.3	-22.1	-21.1	-15.3	31.3	15.8	87.6	-9.6

TABLE No. 2 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Bio 9637											
		2						3					
		Karnal Ludhiana Pantnagar Zone Mean						Babraich Bhubaneshwar Dholi Kalyani Ranchi Sabour Varanasi Zone Mean					
1	IMHBG16R-7	13.2	-12.4	-8.1	-3.1	-14.9	-28.0	3.6	-19.9	34.0	10.1	-20.7	-4.6
2	REH-2015-2	-2.4	-10.5	-40.6	-21.8	-64.6	-16.4	-15.1	8.5	4.7	13.5	-16.4	-22.0
3	100K-16	19.0	19.1	16.1	17.7	0.4	-9.1	25.0	-2.8	20.2	3.3	19.4	10.5
4	IMHBG16R-4	-3.4	2.2	-1.3	-1.0	-44.8	-18.1	8.8	7.6	37.3	-0.1	-15.8	-6.8
5	HKH 360	13.9	13.6	-22.9	-2.8	-51.7	2.0	-5.8	-26.4	17.3	12.2	-27.6	-13.6
6	CP.898	2.3	46.4	31.8	27.2	-10.2	-5.9	28.4	-9.9	27.8	-4.6	18.3	11.0
7	VaMH 12013	18.9	32.0	-5.7	11.2	-27.0	-11.4	-3.2	-1.0	32.2	35.7	2.5	-0.8
8	IMH16-14	5.0	5.6	-8.4	-0.9	-9.7	-19.4	-3.4	-11.3	22.9	14.3	0.0	-1.1
9	DKC8185(IR8332)	2.7	64.4	37.4	34.6	23.4	3.7	75.0	16.1	62.7	15.4	-5.4	30.4
10	WH 1010	2.7	6.5	-6.4	-0.5	-32.6	-5.7	-15.5	-4.1	5.6	15.6	-3.5	-10.1
11	IMH16-12	12.6	25.1	8.0	13.8	11.4	-1.9	12.1	0.7	21.8	10.9	-4.3	8.1
12	100 K-18	-0.7	57.3	39.3	32.6	-22.1	-28.1	-21.9	19.9	70.9	25.8	1.5	3.0
13	KH-7502	-3.1	14.9	-7.7	-0.5	-13.3	-21.7	15.2	-3.0	10.9	64.1	-1.8	-2.7
14	VEH-16-1	14.1	9.9	-15.2	-0.2	-22.2	-22.5	-23.1	12.4	40.6	18.4	-17.4	-7.0
15	IMH16-13	12.8	13.8	-13.8	1.1	-18.3	-23.4	-3.9	-4.7	-1.8	5.8	-12.2	-12.0
16	IMHBG16R-3	14.3	5.0	-9.8	1.0	-37.0	-21.9	8.8	13.7	21.5	5.0	-38.9	-14.1
17	IMHBG16R-2	0.1	16.4	-17.9	-3.7	-34.2	-17.5	29.9	9.7	34.9	32.6	-9.7	-0.4
18	MMH15-8	-11.2	9.8	-15.2	-7.5	-22.7	-1.6	13.7	-22.9	4.4	24.8	-7.7	-3.9
19	IMHBG16R-9	-10.2	15.6	-7.8	-2.3	-10.6	-6.9	-28.4	-6.0	15.2	38.3	-24.1	-9.4
20	IMHBG16R-5	4.4	13.4	-1.4	4.2	-30.6	-13.5	-1.9	-4.0	30.9	7.5	-16.7	-6.0
21	HKH 359	21.7	0.2	-23.9	-4.6	-42.1	-12.6	3.0	6.5	1.3	18.7	-24.5	-16.0
22	IMHBG16R-8	-5.3	11.5	-7.2	-1.7	-45.9	-4.2	-15.6	-1.4	24.6	42.4	-16.5	-11.1
23	MMH15-9	-6.4	-15.5	-27.5	-18.3	-31.5	-23.2	-12.6	-20.8	-15.0	30.1	-49.5	-26.9
24	IMHBG16R-10	1.4	3.3	-16.1	-6.0	-15.1	-16.3	50.0	16.7	25.8	-7.1	-15.4	3.8
25	AH 7005	20.2	3.7	-36.3	-9.7	-24.8	-16.5	-2.1	12.3	-25.4	-0.6	-20.7	-19.0
26	IMHBG16R-6	18.1	14.4	-22.5	-1.2	-16.2	-15.6	41.6	1.7	53.6	30.8	5.1	13.0
27	HKH 358	7.1	3.1	-14.1	-3.5	-2.1	-34.3	-30.2	-10.3	0.6	9.7	-19.9	-15.5
28	IMHBG16R-1	3.1	6.4	0.1	2.6	-39.9	6.5	-33.4	-23.9	0.3	27.9	-1.0	-12.7
29	REH-2014-3	13.3	-34.5	-43.1	-24.8	-42.8	-18.9	-20.2	6.6	1.7	-0.5	-10.0	-17.5
30	IMH16-15	0.2	39.0	-16.2	3.0	-52.7	3.2	-0.4	3.3	41.3	-12.9	-0.7	-1.8
31	REH-2015-1	-6.5	-9.2	-35.7	-20.4	-54.6	-13.0	-23.8	15.0	6.4	28.0	-20.1	-20.8
32	HM 10 (C)	1.3	4.5	-27.6	-10.9	-3.0	-11.1	64.4	-3.2	26.8	5.0	-5.6	11.9
33	DHM 117 (C)	13.8	-4.8	-3.4	1.1	-14.8	-5.1	-41.0	1.0	32.8	7.3	-17.8	-6.6
34	Bio 9544(C)	16.3	29.1	37.4	29.2	-22.5	-9.6	2.1	-64.1	49.6	15.1	-1.9	4.4
35	Bio 9637 (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE No. 2 (Contd.)

Sl	Entry Name	MOISTURE % AT HARVEST											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	IMHBG16R-7	28.0	14.0	26.9	23.0	33.4	24.7	20.3	19.4	18.5	26.2	26.5	30.0
2	REH-2015-2	27.6	13.7	26.5	22.6	33.2	23.1	19.3	20.6	18.9	26.2	30.8	30.1
3	100K-16	27.9	14.1	25.3	22.5	34.3	26.7	20.6	20.2	18.4	26.6	27.3	28.9
4	IMHBG16R-4	27.0	14.0	26.5	22.4	33.7	24.1	20.2	20.3	18.5	24.7	27.1	31.6
5	HKH 360	27.4	13.6	25.0	22.0	33.4	23.9	19.7	20.3	18.1	25.4	28.2	30.6
6	CP.898	28.3	14.9	25.8	23.0	33.4	24.9	19.9	21.6	18.8	25.5	28.1	29.1
7	VaMH 12013	28.0	13.8	26.2	22.7	32.6	24.8	19.6	18.8	18.2	26.7	27.3	29.5
8	IMH16-14	28.5	14.4	26.3	23.1	33.8	25.4	20.7	21.4	18.1	26.0	31.4	30.3
9	DKC8185(IR8332)	28.9	14.5	27.5	23.6	33.5	27.0	19.3	19.8	18.8	25.0	28.2	32.9
10	WH 1010	26.7	13.7	27.9	22.6	33.5	22.7	19.2	20.2	18.3	25.5	30.6	30.7
11	IMH16-12	28.4	14.0	26.9	23.1	33.5	26.1	19.2	19.8	18.7	27.1	27.5	30.6
12	100 K-18	28.5	14.5	27.5	23.5	33.3	26.9	19.1	19.8	18.4	25.6	27.2	31.1
13	KH-7502	28.1	13.8	26.2	22.7	31.8	23.3	19.2	18.7	17.7	25.4	30.0	29.0
14	VEH-16-1	28.9	13.5	27.0	23.2	33.6	24.3	20.5	20.3	18.2	25.7	27.7	32.2
15	IMH16-13	27.9	13.5	26.8	22.8	33.5	25.7	19.4	21.2	18.9	24.7	27.1	30.3
16	IMHBG16R-3	27.1	14.5	27.1	22.8	33.4	25.8	19.9	19.0	18.5	25.0	28.0	31.3
17	IMHBG16R-2	27.9	14.2	26.9	23.0	33.1	25.9	19.2	19.7	18.3	26.0	27.6	30.4
18	MMH15-8	28.2	13.5	24.5	22.2	32.3	24.9	19.4	18.8	18.2	24.4	28.4	30.0
19	IMHBG16R-9	28.3	14.9	27.0	23.4	32.3	24.4	19.2	19.4	18.2	24.5	27.1	30.4
20	IMHBG16R-5	27.7	14.3	26.9	22.9	31.5	24.2	19.3	18.8	19.0	23.9	24.3	30.1
21	HKH 359	27.8	14.3	25.9	22.7	33.0	23.7	20.5	19.2	18.5	25.6	30.6	29.8
22	IMHBG16R-8	27.5	14.3	26.6	22.8	32.8	23.9	20.4	19.9	18.4	25.8	30.8	31.1
23	MMH15-9	27.3	13.8	25.2	22.1	32.7	23.3	19.3	19.6	18.3	26.0	25.7	30.5
24	IMHBG16R-10	27.5	14.1	27.2	22.9	33.2	26.1	19.0	19.9	18.1	25.1	25.6	31.7
25	AH 7005	28.2	14.0	27.3	23.2	33.3	24.8	19.5	20.3	18.9	24.3	25.1	31.9

TABLE No. 2 (Contd.)

Sl	Entry Name	MOISTURE % AT HARVEST											
		2				3							
		Karnal Ludhiana Pantnagar Zone Mean				Bahraich Bhubaneshwar Dholi Kalyani				Ranchi Sabour Varanasi Zone Mean			
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
26	IMHBG16R-6	28.0	14.2	25.8	22.7	32.7	25.0	19.3	21.2	18.3	24.2	26.5	28.6
27	HKH 358	27.4	13.8	27.1	22.7	33.6	24.1	20.6	18.9	18.8	26.1	29.7	30.6
28	IMHBG16R-1	27.1	14.1	25.9	22.3	33.1	23.9	19.2	19.0	18.8	26.3	27.2	31.3
29	REH-2014-3	26.3	14.2	27.0	22.4	33.2	23.2	20.1	19.6	19.1	28.2	27.9	29.1
30	IMH16-15	28.1	14.5	26.1	22.9	33.0	23.4	19.9	18.9	18.4	23.7	25.6	31.1
31	REH-2015-1	26.9	13.9	26.8	22.5	33.1	24.9	18.8	21.8	18.6	25.0	28.3	31.5
32	HM 10 (C)	27.8	14.1	23.3	21.8	33.7	26.8	19.4	19.0	18.2	26.6	28.4	28.5
33	DHM 117 (C)	27.7	14.6	26.6	22.9	33.6	26.0	20.6	19.4	19.2	25.2	27.7	31.7
34	Bio 9544(C)	26.1	14.1	27.3	22.3	33.6	24.0	20.7	18.8	74.5	25.5	27.3	32.5
35	Bio 9637 (C)	27.5	14.5	27.0	22.9	32.9	24.7	19.7	19.9	18.3	23.2	24.0	30.9
	General Mean	27.7	14.1	26.4	22.8	33.2	24.7	19.7	19.8	20.1	25.4	27.7	30.5
	CV(%)	4.4	4.0	2.5	4.2	4.7	3.0	1.7	1.4	81.3	5.3	11.2	3.5
	P-Value	0.7	0.7	0.0	0.4	0.2	0.0	0.0	0.0	0.5	0.4	0.5	0.0
	CD (5%)	2.0	1.2	1.3	1.1	1.4	1.5	0.7	0.6	26.6	2.7	5.1	2.2

TABLE No. 2 (Contd.)

Sl	Entry Name	MOISTURE % AT HARVEST										
		4							5			All India
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	
1	IMHBG16R-7	15.3	24.6	14.8	18.5	10.0	7.6	16.1	16.4	16.4	16.4	23.7
2	REH-2015-2	14.9	22.5	17.4	17.5	11.1	7.8	15.9	15.6	16.2	15.0	23.3
3	100K-16	14.9	23.5	12.8	17.6	10.0	7.4	16.5	16.2	16.8	15.6	23.8
4	IMHBG16R-4	14.9	22.1	15.9	17.5	11.7	7.4	15.9	16.3	16.0	16.7	23.5
5	HKH 360	15.4	22.7	15.7	20.0	10.5	7.3	16.5	16.2	17.4	15.0	23.5
6	CP.898	14.3	20.7	19.3	17.5	9.8	7.6	15.7	15.5	16.7	14.2	23.2
7	VaMH 12013	14.7	21.5	13.0	17.8	10.6	7.3	16.3	17.0	17.2	16.9	23.2
8	IMH16-14	15.2	22.4	12.3	18.6	11.3	7.5	16.5	16.4	15.8	16.9	23.8
9	DKC8185(IR8332)	15.1	24.5	14.5	17.5	10.2	7.7	15.7	17.0	16.9	17.0	23.8
10	WH 1010	15.1	23.2	18.0	18.8	10.7	7.0	16.2	16.1	17.0	15.2	23.5
11	IMH16-12	15.0	22.9	17.9	18.0	10.9	7.5	16.1	15.4	16.1	14.8	23.5
12	100 K-18	15.3	23.9	19.3	18.5	11.1	7.5	15.8	16.3	17.1	15.5	23.7
13	KH-7502	16.0	24.1	18.0	19.6	11.4	7.7	17.7	15.6	15.7	15.6	23.2
14	VEH-16-1	15.9	23.6	17.4	20.3	11.8	7.5	16.5	16.5	16.7	16.3	24.0
15	IMH16-13	15.0	22.8	16.3	18.1	11.3	7.4	15.7	16.8	17.0	16.6	23.6
16	IMHBG16R-3	15.3	23.1	19.6	19.2	10.1	8.1	15.9	16.7	17.1	16.3	23.7
17	IMHBG16R-2	15.1	23.8	16.1	18.2	10.4	7.3	15.9	16.6	16.5	16.8	23.5
18	MMH15-8	14.5	20.8	16.2	17.8	10.8	7.5	15.8	16.6	16.5	16.7	22.9
19	IMHBG16R-9	15.3	23.4	16.1	18.6	10.9	7.8	16.2	17.3	17.5	17.1	23.5
20	IMHBG16R-5	15.2	23.2	13.9	18.6	10.2	7.8	16.5	16.3	17.0	15.6	23.0
21	HKH 359	15.0	22.0	12.7	18.5	10.7	7.7	16.3	16.3	16.1	16.4	23.4
22	IMHBG16R-8	14.8	24.2	17.5	16.8	10.7	7.3	15.5	17.5	17.4	17.6	23.4
23	MMH15-9	15.3	22.6	14.3	20.2	10.4	7.0	16.4	16.4	16.4	16.4	23.3
24	IMHBG16R-10	15.5	24.9	14.9	17.4	11.3	7.7	16.7	16.0	17.1	14.8	23.6
25	AH 7005	15.6	25.5	21.4	18.5	11.7	7.1	15.9	16.5	16.6	16.4	23.8

TABLE No. 2 (Contd.)

Sl	Entry Name	MOISTURE % AT HARVEST										
		4							5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
26	IMHBG16R-6	15.7	24.5	14.9	18.7	10.4	7.7	17.4	17.0	16.6	17.3	23.6
27	HKH 358	14.9	21.9	14.4	18.8	11.0	7.7	15.4	16.9	16.4	17.4	23.6
28	IMHBG16R-1	14.7	22.3	15.1	16.9	10.6	7.4	16.6	16.0	16.5	15.4	23.2
29	REH-2014-3	15.5	25.5	13.5	16.7	11.1	7.4	17.5	16.5	16.6	16.4	23.6
30	IMH16-15	14.9	21.6	16.8	17.6	11.5	7.9	16.0	16.9	17.6	16.3	23.4
31	REH-2015-1	15.1	22.9	12.7	17.0	11.5	7.5	17.4	16.5	16.6	16.4	23.4
32	HM 10 (C)	14.5	22.7	15.6	17.1	9.9	7.6	15.6	16.8	16.4	17.2	23.3
33	DHM 117 (C)	16.0	23.5	19.9	20.9	10.9	7.7	17.1	15.0	16.5	13.5	23.8
34	Bio 9544(C)	15.0	23.0	17.9	17.9	11.2	7.5	16.0	16.5	16.6	16.4	23.5
35	Bio 9637 (C)	15.4	24.1	20.6	19.0	10.9	7.6	15.8	15.4	17.4	13.4	23.4
	General Mean	15.2	23.1	16.2	18.3	10.8	7.5	16.2	16.4	16.7	16.0	23.5
	CV(%)	5.7	4.6	26.1	6.7	6.1	4.0	4.0	3.6	4.1	3.0	4.8
	P-Value	0.1	0.0	0.9	0.0	0.2	0.0	0.1	0.6	0.5	0.0	0.4
	CD (5%)	1.0	2.2	8.6	2.0	1.4	0.5	1.3	1.7	1.4	1.0	0.7

TABLE No. 2 (Contd.)

Sl	Entry Name	SHELLING %											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	IMHBG16R-7	79.7	77.8	77.0	78.2	71.1	75.9	78.2	80.5	84.7	80.0	79.9	72.0
2	REH-2015-2	79.4	78.8	74.4	77.6	71.0	65.8	79.2	80.0	86.8	80.0	79.8	73.1
3	100K-16	81.0	85.1	85.0	83.7	73.1	80.1	81.2	77.0	89.8	80.0	83.1	76.6
4	IMHBG16R-4	80.1	79.6	81.1	80.3	70.1	68.5	79.9	77.0	84.8	80.0	81.6	72.8
5	HKH 360	81.3	80.9	79.5	80.6	70.4	66.8	80.8	80.0	83.4	80.0	80.3	73.3
6	CP.898	81.6	86.0	81.0	82.9	73.0	77.8	80.7	77.0	90.5	80.0	79.6	76.1
7	VaMH 12013	79.8	81.6	81.2	80.9	71.5	74.0	80.8	77.0	85.0	80.0	76.5	76.5
8	IMH16-14	80.2	79.0	79.7	79.6	72.5	75.3	82.1	80.0	84.3	80.0	79.2	74.3
9	DKC8185(IR8332)	80.5	82.5	80.8	81.3	73.6	80.9	81.1	82.0	87.2	80.0	77.2	76.1
10	WH 1010	77.9	84.7	86.8	83.1	73.2	75.2	80.1	80.0	88.9	80.0	82.5	77.3
11	IMH16-12	79.5	81.6	75.3	78.9	72.1	77.0	80.7	80.0	86.3	80.0	78.2	73.4
12	100 K-18	80.7	85.6	80.8	82.4	72.7	77.8	80.9	80.0	88.3	80.0	77.2	75.0
13	KH-7502	79.5	83.9	79.4	81.0	71.2	72.1	77.6	81.0	84.8	80.0	75.4	72.5
14	VEH-16-1	80.4	79.6	80.9	80.3	70.7	71.0	81.9	80.0	82.5	80.0	78.6	72.4
15	IMH16-13	80.7	80.6	72.2	78.0	70.7	73.4	79.8	80.0	81.9	80.0	79.7	73.0
16	IMHBG16R-3	81.3	77.3	78.7	79.1	70.1	70.8	81.8	80.0	79.2	80.0	79.5	71.3
17	IMHBG16R-2	81.6	78.3	72.0	77.4	70.3	71.1	79.6	80.0	82.4	80.0	77.5	71.6
18	MMH15-8	80.8	80.5	80.7	80.7	71.8	73.6	81.2	80.0	85.4	80.0	76.6	74.1
19	IMHBG16R-9	80.3	81.9	81.9	81.4	71.2	73.9	79.0	80.0	85.8	80.0	76.0	72.8
20	IMHBG16R-5	80.8	81.1	78.5	80.2	71.0	72.0	81.4	80.0	86.2	80.0	73.1	73.3
21	HKH 359	80.1	81.2	83.0	81.4	72.4	70.9	80.5	80.5	88.4	80.0	79.2	75.0
22	IMHBG16R-8	81.0	77.8	77.3	78.7	70.7	69.0	78.3	81.0	84.8	80.0	75.9	69.8
23	MMH15-9	80.5	83.7	83.1	82.4	71.6	73.8	79.9	78.0	88.7	80.0	77.9	75.2
24	IMHBG16R-10	81.0	77.6	77.2	78.7	71.6	76.1	79.1	80.0	88.0	80.0	77.6	72.3
25	AH 7005	80.4	78.5	75.7	78.3	69.7	74.6	77.9	77.0	80.5	80.0	79.0	73.5

TABLE No. 2 (Contd.)

Sl	Entry Name	SHELLING %											
		2				3							
		Karnal Ludhiana Pantnagar Zone Mean				Bahraich Bhubaneshwar Dholi Kalyani Ranchi Sabour Varanasi Zone Mean							
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean		
26	IMHBG16R-6	80.8	76.8	79.1	78.9	71.5	75.0	81.5	80.0	84.7	80.0	78.0	72.9
27	HKH 358	79.8	77.8	76.1	78.0	70.2	72.6	78.7	80.0	79.0	80.0	81.2	71.9
28	IMHBG16R-1	80.4	78.5	81.6	80.1	68.8	66.3	82.1	80.0	74.9	80.0	78.8	72.3
29	REH-2014-3	80.2	80.9	79.1	80.1	70.4	70.6	79.1	80.0	79.9	80.0	80.2	76.0
30	IMH16-15	78.9	82.1	80.6	80.5	70.6	72.5	78.0	77.0	84.9	80.0	81.2	76.3
31	REH-2015-1	81.0	79.6	82.2	80.9	70.2	68.0	82.0	77.0	80.7	80.0	76.5	75.7
32	HM 10 (C)	80.6	77.9	75.1	78.0	70.5	75.7	79.5	77.0	80.7	80.0	82.2	72.4
33	DHM 117 (C)	83.1	77.6	77.9	79.6	70.1	69.4	80.1	80.5	79.8	80.0	78.9	74.0
34	Bio 9544(C)	80.3	79.9	86.0	82.0	72.2	76.7	80.8	80.0	87.2	80.0	80.0	73.5
35	Bio 9637 (C)	80.7	80.8	86.9	82.7	70.7	71.4	78.0	80.0	86.9	80.0	79.3	75.0
	General Mean	80.5	80.5	79.6	80.2	71.2	73.0	80.1	79.4	84.5	80.0	78.8	73.8
	CV(%)	2.2	2.3	1.6	2.1	3.2	2.3	0.6	1.6	3.8	0.0	4.2	2.2
	P-Value	0.8	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	.	0.7	0.0
	CD (5%)	2.9	3.0	2.5	3.9	2.3	3.4	1.0	2.6	5.3	0.0	6.7	3.4

TABLE No. 2 (Contd.)

Sl	Entry Name	SHELLING %										
		4							5		All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean		
1	IMHBG16R-7	71.5	76.7	79.6	75.8	78.9	51.2	78.2	77.4	79.4	75.4	73.3
2	REH-2015-2	73.4	74.2	79.3	83.5	82.6	54.2	77.3	78.1	79.8	76.4	73.8
3	100K-16	76.5	79.9	85.7	84.8	85.0	54.5	80.0	81.5	78.5	84.6	77.1
4	IMHBG16R-4	72.9	77.9	81.2	77.4	79.0	53.6	78.8	76.2	76.9	75.6	73.6
5	HKH 360	73.4	76.7	80.4	80.3	83.7	52.6	78.2	80.7	81.1	80.3	74.4
6	CP.898	77.6	81.0	85.8	86.8	84.1	57.7	80.1	81.2	77.3	85.1	77.2
7	VaMH 12013	74.6	78.5	83.3	80.7	80.7	54.9	79.8	78.1	79.5	76.7	75.0
8	IMH16-14	74.5	80.1	87.1	80.5	79.2	51.7	78.8	81.5	79.9	83.1	75.5
9	DKC8185(IR8332)	75.3	82.1	83.8	80.2	80.7	56.2	78.9	81.1	79.7	82.5	76.4
10	WH 1010	76.1	82.1	86.3	81.2	86.8	54.9	77.5	82.5	80.8	84.1	77.0
11	IMH16-12	74.6	79.7	81.8	80.7	83.6	55.3	77.7	78.3	77.5	79.1	74.9
12	100 K-18	76.3	78.3	85.0	84.5	83.1	56.2	80.8	81.2	79.8	82.7	76.6
13	KH-7502	73.7	75.7	84.7	79.6	83.6	52.4	77.9	82.7	78.3	87.2	75.1
14	VEH-16-1	73.5	80.9	80.0	76.7	81.2	53.4	80.5	80.5	79.9	81.1	74.5
15	IMH16-13	74.1	80.0	82.5	77.7	83.1	54.2	78.6	80.1	80.3	80.0	74.2
16	IMHBG16R-3	71.2	75.7	78.8	74.6	77.3	52.1	79.5	81.6	82.0	81.3	73.4
17	IMHBG16R-2	71.7	74.6	80.0	78.2	78.9	51.0	78.6	77.9	79.0	76.7	73.0
18	MMH15-8	74.3	80.0	81.6	82.0	79.6	55.1	77.6	79.7	79.6	79.8	75.2
19	IMHBG16R-9	74.2	77.6	83.2	80.8	79.3	54.5	79.7	78.0	80.1	75.9	74.8
20	IMHBG16R-5	72.5	74.3	82.5	77.7	81.0	52.4	78.3	78.9	80.0	77.9	74.1
21	HKH 359	76.0	80.2	85.7	82.2	84.4	55.4	79.1	79.1	79.2	79.0	76.0
22	IMHBG16R-8	71.3	74.9	79.1	76.0	80.5	49.3	79.8	78.5	79.5	77.5	73.2
23	MMH15-9	74.6	77.8	85.1	78.3	84.8	56.4	76.7	80.9	80.0	81.8	75.6
24	IMHBG16R-10	73.0	80.6	77.3	74.9	86.5	51.9	80.1	78.6	80.4	76.8	74.2
25	AH 7005	71.1	77.3	78.4	73.0	73.1	55.4	78.5	82.7	78.2	87.1	73.2

TABLE No. 2 (Contd.)

Sl	Entry Name	SHELLING %										
		4							5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
26	IMHBG16R-6	69.5	71.0	75.7	76.4	75.4	50.0	78.8	78.0	79.3	76.7	73.0
27	HKH 358	72.0	76.8	81.4	74.9	80.3	51.9	78.1	80.4	78.1	82.7	73.4
28	IMHBG16R-1	73.7	73.5	84.6	82.3	82.6	52.1	78.4	77.7	79.7	75.8	73.5
29	REH-2014-3	73.8	77.3	82.5	79.2	83.6	55.0	76.6	81.2	79.6	82.8	74.5
30	IMH16-15	74.6	78.0	82.9	80.1	82.1	54.5	81.2	80.3	80.5	80.1	74.8
31	REH-2015-1	74.5	76.0	85.5	78.5	82.8	57.7	77.3	81.0	78.0	83.9	74.7
32	HM 10 (C)	73.0	76.5	80.2	79.8	80.8	53.2	78.4	77.2	78.6	75.7	73.5
33	DHM 117 (C)	71.3	75.5	80.0	74.0	79.3	54.1	76.3	80.7	79.6	81.8	73.5
34	Bio 9544(C)	75.2	79.1	83.2	81.1	84.3	55.1	79.9	76.5	78.9	74.2	75.5
35	Bio 9637 (C)	73.6	78.5	80.4	82.9	82.8	49.0	79.3	75.9	79.6	72.2	74.4
	General Mean	73.7	77.7	82.1	79.4	81.6	53.7	78.7	79.6	79.4	79.8	74.6
	CV(%)	2.6	2.3	2.5	2.2	.	4.4	1.2	2.4	2.9	1.9	2.7
	P-Value	0.0	0.0	0.0	0.0	.	0.0	0.0	0.6	1.0	0.0	0.0
	CD (5%)	2.4	3.6	4.1	2.8	.	3.9	1.9	5.8	4.7	3.0	1.5

TABLE No. 2 (Contd.)

Sl	Entry Name	STAND AT HARVEST											
		2				3							
		Karnal Ludhiana Pantnagar Zone Mean				Bahraich Bhubaneshwar Dholi Kalyani Ranchi Sabour Varanasi Zone Mean							
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
1	IMHBG16R-7	56.1	58.7	60.6	58.5	68.5	71.5	61.8	64.4	58.9	68.8	77.8	76.4
2	REH-2015-2	53.3	67.6	62.2	61.0	67.4	60.4	62.5	52.8	71.1	67.0	81.9	76.4
3	100K-16	56.1	74.5	66.7	65.8	69.2	66.0	61.8	55.0	66.7	70.0	83.3	81.3
4	IMHBG16R-4	60.0	63.8	59.4	61.1	65.1	55.6	60.4	46.7	66.1	66.1	82.6	78.5
5	HKH 360	66.1	72.0	64.4	67.5	65.3	70.8	62.5	52.8	66.7	67.0	83.3	54.2
6	CP.898	61.7	77.7	66.7	68.7	69.4	69.4	63.9	61.1	62.2	67.9	81.9	79.2
7	VaMH 12013	65.6	69.4	57.2	64.1	68.1	67.4	61.8	60.0	63.3	69.6	81.9	72.9
8	IMH16-14	60.0	75.1	63.9	66.3	67.2	59.0	63.2	53.9	65.0	68.8	83.3	77.8
9	DKC8185(IR8332)	62.8	74.5	66.7	68.0	68.7	69.4	62.5	59.4	64.4	65.2	80.6	79.2
10	WH 1010	61.7	68.8	62.2	64.2	62.4	56.9	59.7	42.8	61.1	67.0	82.6	67.4
11	IMH16-12	59.4	73.9	66.7	66.7	70.4	77.1	62.5	64.4	66.1	58.9	83.3	79.2
12	100 K-18	63.9	67.6	55.6	62.3	65.6	57.6	62.5	45.0	67.8	67.0	83.3	76.4
13	KH-7502	61.1	74.5	64.4	66.7	69.5	68.1	63.9	61.1	67.8	66.1	83.3	75.7
14	VEH-16-1	57.2	71.3	50.0	59.5	65.1	68.8	62.5	45.6	67.2	67.9	83.3	61.1
15	IMH16-13	65.6	65.0	66.7	65.8	68.3	61.8	61.1	61.7	68.3	68.8	83.3	73.6
16	IMHBG16R-3	61.1	68.2	61.1	63.5	67.4	59.7	58.3	55.6	66.7	68.8	83.3	79.9
17	IMHBG16R-2	58.9	71.3	53.3	61.2	66.0	70.1	61.1	47.8	68.3	58.9	83.3	71.5
18	MMH15-8	61.1	75.1	66.7	67.6	71.1	75.7	64.6	58.9	67.8	69.6	83.3	77.8
19	IMHBG16R-9	62.8	74.5	65.0	67.4	68.4	70.1	59.0	56.1	66.1	66.1	83.3	77.8
20	IMHBG16R-5	57.2	73.9	63.3	64.8	68.9	66.0	65.3	63.3	58.9	67.0	79.2	82.6
21	HKH 359	60.0	70.1	48.3	59.5	68.6	66.7	62.5	68.3	67.2	56.3	82.6	75.0
22	IMHBG16R-8	61.1	63.1	63.3	62.5	66.2	58.3	62.5	59.4	65.0	70.5	77.8	70.8
23	MMH15-9	61.7	70.1	64.4	65.4	67.4	59.7	65.3	53.3	68.3	68.8	83.3	73.6
24	IMHBG16R-10	62.2	70.1	60.0	64.1	67.0	62.5	64.6	63.3	62.2	68.8	71.5	76.4
25	AH 7005	58.3	59.3	36.1	51.3	64.0	60.4	59.0	56.1	66.1	50.9	81.9	72.2

TABLE No. 2 (Contd.)

Sl	Entry Name	STAND AT HARVEST											
		2				3							
		Karnal Ludhiana Pantnagar Zone Mean				Bahraich Bhubaneshwar Dholi Kalyani Ranchi Sabour Varanasi Zone Mean							
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean		
26	IMHBG16R-6	60.0	72.0	62.2	64.7	70.8	75.0	62.5	62.8	68.3	67.0	83.3	76.4
27	HKH 358	61.7	74.5	66.7	67.6	69.4	66.7	58.3	65.6	64.4	70.5	83.3	77.1
28	IMHBG16R-1	61.1	70.7	66.7	66.2	66.9	74.3	63.2	56.1	63.9	62.5	78.5	69.4
29	REH-2014-3	58.3	70.1	46.7	58.4	63.5	70.8	59.0	38.9	65.6	63.3	80.6	67.4
30	IMH16-15	57.8	70.7	46.7	58.4	64.8	63.2	61.8	45.6	67.8	53.6	83.3	77.1
31	REH-2015-1	62.8	74.5	38.3	58.5	63.7	56.9	59.0	48.9	66.7	58.9	83.3	71.5
32	HM 10 (C)	60.0	78.9	61.1	66.7	68.3	70.1	65.3	59.4	56.7	63.4	83.3	79.2
33	DHM 117 (C)	65.0	65.0	58.9	63.0	68.2	68.8	63.9	50.6	67.8	68.8	83.3	74.3
34	Bio 9544(C)	57.8	76.4	66.7	66.9	69.1	66.7	64.6	62.2	63.9	67.9	83.3	75.0
35	Bio 9637 (C)	57.8	71.3	43.3	57.5	66.4	63.2	62.5	50.6	62.8	69.6	83.3	73.6
	General Mean	60.5	70.7	59.2	63.5	67.3	65.9	62.1	55.7	65.4	65.7	82.0	74.5
	CV(%)	7.7	11.5	9.3	9.9	6.4	6.1	5.5	9.1	6.3	8.1	4.6	6.1
	P-Value	0.3	0.4	0.0	0.1	0.1	0.0	0.4	0.0	0.0	0.1	0.2	0.0
	CD (5%)	7.6	13.2	8.9	8.8	4.9	6.5	5.6	8.2	6.7	10.9	6.2	7.4

TABLE No. 2 (Contd.)

Sl	Entry Name	STAND AT HARVEST										
		4						5			All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Vagarai Zone Mean	Banswara Zone Mean	Godhra Zone Mean				
1	IMHBG16R-7	62.3	65.3	66.0	62.2	60.6	58.3	61.1	65.3	61.1	69.4	64.4
2	REH-2015-2	58.5	66.0	60.4	60.0	55.6	56.1	52.8	62.2	51.4	72.9	62.8
3	100K-16	63.4	66.7	71.5	62.8	62.8	53.9	62.5	67.7	66.0	69.4	66.5
4	IMHBG16R-4	61.3	65.3	67.4	62.8	56.1	54.4	61.8	67.4	70.8	63.9	63.4
5	HKH 360	60.0	62.5	69.4	57.8	53.9	57.2	59.0	63.5	63.2	63.9	63.7
6	CP.898	62.3	66.0	72.2	59.4	58.3	56.7	61.1	64.2	64.6	63.9	66.3
7	VaMH 12013	60.9	66.0	67.4	62.2	54.4	55.6	59.7	65.6	63.9	67.4	64.7
8	IMH16-14	62.1	65.3	72.2	62.2	56.7	57.2	59.0	69.4	71.5	67.4	65.6
9	DKC8185(IR8332)	63.1	65.3	69.4	64.4	61.1	55.6	62.5	66.0	68.1	63.9	66.4
10	WH 1010	59.2	64.6	61.8	59.4	57.8	54.4	56.9	63.2	60.4	66.0	61.7
11	IMH16-12	62.9	66.0	73.6	62.8	57.2	57.8	59.7	67.0	68.8	65.3	66.9
12	100 K-18	61.8	65.3	68.8	57.2	58.3	57.2	63.9	67.7	66.7	68.8	64.0
13	KH-7502	58.5	66.0	64.6	54.4	57.2	53.9	54.9	63.9	63.9	63.9	64.7
14	VEH-16-1	61.1	66.0	63.9	61.7	57.8	55.6	61.8	63.5	61.1	66.0	62.7
15	IMH16-13	61.9	66.0	74.3	59.4	58.9	56.1	56.9	74.3	72.9	75.7	66.4
16	IMHBG16R-3	59.6	65.3	63.9	55.6	56.1	55.0	61.8	63.2	62.5	63.9	63.7
17	IMHBG16R-2	60.4	66.0	63.2	57.2	57.8	57.2	61.1	65.3	61.8	68.8	63.3
18	MMH15-8	60.9	65.3	70.8	60.0	55.6	53.9	59.7	68.4	66.0	70.8	66.8
19	IMHBG16R-9	61.6	66.0	68.1	61.7	55.6	58.3	59.7	67.0	69.4	64.6	65.8
20	IMHBG16R-5	60.8	64.6	68.1	58.9	58.3	57.2	57.6	67.0	60.4	73.6	65.3
21	HKH 359	59.8	66.0	63.9	58.3	57.2	54.4	59.0	67.7	67.4	68.1	64.0
22	IMHBG16R-8	62.3	66.0	68.1	62.2	60.0	56.1	61.1	66.3	68.8	63.9	64.3
23	MMH15-9	59.3	66.7	61.8	61.7	56.1	56.7	52.8	65.6	64.6	66.7	64.2
24	IMHBG16R-10	62.7	66.0	69.4	63.9	61.1	54.4	61.1	67.7	68.8	66.7	65.2
25	AH 7005	60.5	65.3	65.3	61.7	57.8	53.3	59.7	64.6	55.6	73.6	60.8

TABLE No. 2 (Contd.)

Sl	Entry Name	STAND AT HARVEST										
		4							5		All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean		Zone Mean
26	IMHBG16R-6	61.0	67.4	70.1	60.6	53.9	55.6	58.3	66.3	65.3	67.4	66.0
27	HKH 358	62.0	66.7	70.1	63.3	57.8	53.9	60.4	71.5	70.8	72.2	66.9
28	IMHBG16R-1	61.3	63.2	69.4	57.8	62.2	56.1	59.0	67.4	64.6	70.1	65.0
29	REH-2014-3	53.9	46.5	55.6	53.9	57.2	57.2	52.8	66.3	57.6	75.0	59.7
30	IMH16-15	60.8	66.0	65.3	61.1	56.1	53.3	63.2	68.8	67.4	70.1	62.9
31	REH-2015-1	58.9	66.0	58.3	60.6	55.0	55.0	58.3	62.2	61.1	63.2	61.1
32	HM 10 (C)	57.9	63.2	61.1	57.8	53.9	57.2	54.2	66.7	64.6	68.8	64.4
33	DHM 117 (C)	60.1	63.9	67.4	60.0	54.4	55.6	59.0	66.7	62.5	70.8	64.4
34	Bio 9544(C)	62.0	65.3	71.5	55.0	62.8	55.0	62.5	66.3	68.8	63.9	66.1
35	Bio 9637 (C)	60.3	65.3	64.6	59.4	56.1	56.7	59.7	66.7	67.4	66.0	62.9
	General Mean	60.7	64.9	66.8	60.0	57.5	55.8	59.3	66.4	64.8	67.9	64.4
	CV(%)	5.0	3.0	8.4	3.1	3.1	4.2	4.4	7.7	9.1	6.1	6.9
	P-Value	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.0	0.0	0.0	0.0
	CD (5%)	3.0	3.2	9.2	3.0	2.9	3.8	4.3	9.5	9.6	6.7	2.7

TABLE No. 2 (Contd.)

Sl	Entry Name	DAYS TO 50% POLLEN SHED											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	IMHBG16R-7	126.3	79.3	110.3	105.3	118.3	66.0	112.0	90.7	81.5	104.3	110.7	97.7
2	REH-2015-2	126.7	82.3	111.7	106.9	114.7	65.0	112.0	88.7	84.0	105.0	109.0	96.8
3	100K-16	122.0	79.3	106.3	102.6	117.7	67.0	114.0	91.0	80.0	106.0	106.3	97.4
4	IMHBG16R-4	123.0	83.3	113.0	106.4	120.3	66.7	113.0	89.7	85.0	104.3	110.3	98.4
5	HKH 360	123.7	78.7	108.7	103.7	115.7	65.0	113.0	88.7	78.0	105.0	109.0	96.4
6	CP.898	125.7	76.7	106.3	102.9	112.3	66.0	110.7	88.3	79.5	104.0	106.3	95.3
7	VaMH 12013	123.3	78.0	108.0	103.1	115.7	68.0	110.7	89.0	82.0	104.0	106.3	96.5
8	IMH16-14	121.7	80.0	110.7	104.1	115.7	67.0	111.3	87.3	79.0	101.0	105.3	95.3
9	DKC8185(IR8332)	124.7	82.7	111.7	106.3	120.3	68.0	116.0	88.7	85.0	104.7	112.3	99.3
10	WH 1010	122.3	75.7	106.0	101.3	115.7	66.0	110.0	89.7	77.5	104.0	105.0	95.5
11	IMH16-12	124.0	78.0	110.0	104.0	115.7	70.0	111.3	88.3	80.0	104.7	109.0	97.0
12	100 K-18	125.7	79.0	111.3	105.3	116.3	68.0	113.3	87.7	82.0	103.7	110.3	97.3
13	KH-7502	121.7	76.7	104.0	100.8	112.7	64.0	110.7	89.3	76.5	104.7	100.7	94.1
14	VEH-16-1	123.7	83.0	111.7	106.1	118.3	68.0	113.3	90.0	86.0	100.3	111.7	98.2
15	IMH16-13	126.3	76.0	110.3	104.2	116.3	68.0	112.7	88.0	79.0	104.0	105.3	96.2
16	IMHBG16R-3	121.7	83.0	112.3	105.7	118.3	68.0	118.7	91.7	83.0	104.7	113.0	99.7
17	IMHBG16R-2	123.7	82.7	111.0	105.8	121.3	66.0	114.0	86.7	83.0	104.7	111.7	98.2
18	MMH15-8	124.3	77.3	111.0	104.2	115.3	68.0	111.3	89.3	83.0	101.0	107.0	96.4
19	IMHBG16R-9	126.7	78.7	110.7	105.3	116.3	68.0	114.3	87.3	83.5	103.7	111.3	97.8
20	IMHBG16R-5	124.7	76.3	108.0	103.0	114.3	67.0	115.7	90.3	80.0	102.7	106.7	96.7
21	HKH 359	119.7	80.0	110.7	103.4	110.7	67.0	113.3	89.7	79.5	103.3	107.0	95.8
22	IMHBG16R-8	120.7	81.0	112.0	104.6	119.3	68.0	114.3	87.7	85.0	104.7	110.7	98.5
23	MMH15-9	123.3	79.7	112.3	105.1	117.3	68.0	113.3	89.3	83.0	103.7	110.3	97.9
24	IMHBG16R-10	124.0	80.7	113.0	105.9	118.3	67.0	113.3	86.3	84.0	105.3	110.7	97.8
25	AH 7005	123.0	81.7	112.3	105.7	119.7	69.0	117.7	89.3	82.0	102.0	110.0	98.6

TABLE No. 2 (Contd.)

Sl	Entry Name	DAYS TO 50% POLLEN SHED											
		2				3							
		Karnal Ludhiana Pantnagar Zone Mean				Bahraich Bhubaneshwar Dholi Kalyani Ranchi Sabour Varanasi Zone Mean							
	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
26	IMHBG16R-6	126.0	77.3	107.0	103.4	116.3	65.0	112.7	85.7	81.5	102.3	107.3	95.8
27	HKH 358	123.7	80.0	109.0	104.2	115.7	68.0	113.7	88.3	82.0	103.3	110.3	97.3
28	IMHBG16R-1	121.7	77.3	106.3	101.8	114.7	66.0	110.0	89.0	81.5	104.7	106.3	96.0
29	REH-2014-3	121.3	83.3	112.3	105.7	117.7	68.0	111.7	87.3	78.0	98.3	109.7	96.0
30	IMH16-15	124.3	80.0	110.7	105.0	119.7	67.0	111.3	87.3	84.5	101.7	111.0	97.4
31	REH-2015-1	123.0	83.3	111.3	105.9	117.3	69.0	113.3	88.3	83.5	102.7	111.7	98.0
32	HM 10 (C)	122.7	78.0	105.7	102.1	113.3	66.0	114.0	91.0	81.0	101.3	107.3	96.3
33	DHM 117 (C)	123.7	82.7	112.3	106.2	118.3	68.7	115.7	88.0	83.0	100.7	111.7	98.0
34	Bio 9544(C)	120.7	81.3	106.7	102.9	114.7	68.3	111.3	89.3	82.0	103.3	109.3	96.9
35	Bio 9637 (C)	125.0	83.7	109.7	106.1	120.3	68.0	114.0	89.7	84.5	101.0	110.7	98.3
	General Mean	123.6	79.9	109.8	104.4	116.7	67.2	113.1	88.8	81.8	103.3	108.9	97.1
	CV(%)	2.2	2.3	2.5	2.3	1.1	1.3	1.8	2.2	1.2	3.4	1.4	2.0
	P-Value	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.8	0.0	0.0
	CD (5%)	4.4	3.0	4.4	3.2	2.0	1.5	3.3	3.2	2.0	5.7	2.4	1.9

TABLE No. 2 (Contd.)

Sl	Entry Name	DAYS TO 50% POLLEN SHED										
		4							5		All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean		
1	IMHBG16R-7	55.7	72.0	66.3	76.0	72.3	53.0	65.9	87.3	68.3	77.8	86.1
2	REH-2015-2	57.3	73.3	68.3	75.0	76.3	54.3	67.4	88.0	69.3	78.7	86.7
3	100K-16	57.0	71.3	68.3	72.0	73.7	53.0	65.9	86.7	75.3	81.0	85.9
4	IMHBG16R-4	59.0	74.7	67.0	75.0	75.0	54.0	67.4	87.0	75.3	81.2	87.5
5	HKH 360	55.3	72.0	65.7	75.0	72.7	51.0	65.3	87.3	69.0	78.2	85.2
6	CP.898	56.0	70.7	68.7	73.0	72.0	53.3	65.6	84.7	71.3	78.0	84.8
7	VaMH 12013	55.3	72.0	68.0	77.3	72.7	54.0	66.6	85.7	67.7	76.7	85.4
8	IMH16-14	55.7	71.3	67.0	75.0	72.7	53.0	65.8	83.3	75.7	79.5	85.2
9	DKC8185(IR8332)	60.0	76.3	64.0	79.0	75.7	56.0	68.5	88.3	75.3	81.8	88.3
10	WH 1010	54.7	70.0	66.0	71.0	71.3	51.3	64.1	88.7	67.3	78.0	84.0
11	IMH16-12	57.0	73.3	64.3	77.0	72.7	52.7	66.2	86.7	76.3	81.5	86.2
12	100 K-18	57.0	74.0	68.0	79.0	75.0	53.7	67.8	87.0	74.3	80.7	87.0
13	KH-7502	55.0	69.3	63.3	72.0	72.0	52.0	63.9	86.7	69.0	77.8	83.4
14	VEH-16-1	58.7	75.0	70.7	75.0	75.3	56.7	68.6	87.3	75.3	81.3	87.8
15	IMH16-13	56.7	72.0	69.7	77.0	72.7	53.0	66.8	86.0	75.0	80.5	86.0
16	IMHBG16R-3	57.7	74.0	71.7	79.0	74.0	53.0	68.2	86.3	75.7	81.0	88.1
17	IMHBG16R-2	57.3	74.0	62.3	79.0	75.0	53.3	66.8	90.3	75.3	82.8	87.3
18	MMH15-8	56.7	73.3	64.0	79.0	75.0	53.0	66.8	87.3	75.0	81.2	86.2
19	IMHBG16R-9	57.0	73.7	69.0	79.0	74.0	53.0	67.6	89.0	74.0	81.5	87.2
20	IMHBG16R-5	56.7	70.7	67.0	77.0	72.7	53.7	66.3	88.3	75.0	81.7	85.9
21	HKH 359	56.3	70.7	66.3	74.0	74.0	53.0	65.7	87.3	69.0	78.2	85.1
22	IMHBG16R-8	56.3	73.3	67.7	75.0	75.0	54.3	66.9	87.3	75.7	81.5	87.1
23	MMH15-9	59.7	76.7	66.3	79.0	75.0	55.7	68.7	87.3	76.3	81.8	87.6
24	IMHBG16R-10	56.0	73.3	69.7	79.0	74.7	53.3	67.7	87.3	75.7	81.5	87.3
25	AH 7005	61.7	75.3	69.3	79.0	75.7	55.7	69.4	86.0	75.7	80.8	88.1

TABLE No. 2 (Contd.)

Sl	Entry Name	DAYS TO 50% POLLEN SHED										
		4							5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
26	IMHBG16R-6	56.7	72.7	71.3	77.0	74.0	53.0	67.4	87.3	75.3	81.3	86.0
27	HKH 358	56.0	73.0	67.0	74.0	74.3	53.3	66.3	86.0	75.0	80.5	86.3
28	IMHBG16R-1	56.3	70.7	71.0	74.0	73.7	53.0	66.4	87.3	70.3	78.8	85.2
29	REH-2014-3	55.7	74.0	70.0	75.0	75.0	54.0	67.3	86.7	69.0	77.8	86.0
30	IMH16-15	56.7	74.3	65.3	79.0	73.7	53.7	67.1	88.3	75.3	81.8	86.9
31	REH-2015-1	56.7	75.0	68.3	79.0	75.0	55.0	68.2	86.3	69.3	77.8	87.1
32	HM 10 (C)	57.3	72.0	68.0	79.0	72.3	53.3	67.0	84.7	71.7	78.2	85.5
33	DHM 117 (C)	62.3	74.0	70.3	79.0	75.0	55.0	69.3	89.7	69.3	79.5	87.7
34	Bio 9544(C)	56.3	71.3	68.3	75.0	74.3	53.7	66.5	87.0	69.7	78.3	85.7
35	Bio 9637 (C)	56.7	74.0	69.3	77.3	75.0	54.3	67.8	87.3	67.7	77.5	87.1
	General Mean	57.0	73.0	67.7	76.5	74.0	53.6	67.0	87.1	72.7	79.9	86.4
	CV(%)	1.3	1.4	1.3	0.4	1.3	1.6	1.2	1.3	1.0	1.2	1.9
	P-Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
	CD (5%)	1.2	1.7	1.4	0.4	1.6	1.4	1.7	1.8	1.1	5.1	1.2

TABLE No. 2 (Contd.)

Sl	Entry Name	DAYS TO 50% SILK											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	IMHBG16R-7	130.0	80.7	113.7	108.1	121.0	69.0	114.0	92.7	87.0	107.3	114.3	100.8
2	REH-2015-2	129.0	83.7	114.7	109.1	117.0	68.0	114.3	91.0	88.5	109.0	113.3	100.1
3	100K-16	124.7	80.7	110.0	105.1	120.0	70.0	116.0	93.0	84.7	110.3	111.7	100.8
4	IMHBG16R-4	126.7	84.3	116.3	109.1	122.3	69.7	114.7	92.0	88.5	107.7	113.0	101.1
5	HKH 360	127.7	79.7	111.7	106.3	118.3	68.0	115.0	91.0	83.0	108.7	111.7	99.5
6	CP.898	128.3	77.0	110.0	105.1	114.7	69.0	112.7	90.7	84.0	108.7	110.7	98.6
7	VaMH 12013	127.0	78.7	111.3	105.7	118.0	71.0	112.7	91.0	86.0	108.3	109.7	99.5
8	IMH16-14	124.7	81.7	113.7	106.7	118.0	70.0	113.7	90.0	84.5	107.7	109.7	99.1
9	DKC8185(IR8332)	127.3	83.7	115.0	108.7	122.3	71.0	118.3	91.0	87.0	108.0	117.0	102.1
10	WH 1010	126.0	77.7	109.3	104.3	118.0	69.0	112.3	91.7	83.0	107.7	109.7	98.8
11	IMH16-12	127.0	79.3	112.3	106.2	118.3	73.0	113.3	90.3	84.5	108.7	113.7	100.3
12	100 K-18	128.3	80.0	114.7	107.7	119.0	71.0	115.7	90.0	86.0	107.3	114.3	100.5
13	KH-7502	124.0	76.0	107.0	102.3	114.7	67.0	112.7	91.7	82.0	108.0	106.0	97.5
14	VEH-16-1	127.3	84.3	114.7	108.8	120.7	71.0	115.3	92.0	89.0	107.0	116.3	101.6
15	IMH16-13	129.3	78.7	113.3	107.1	118.3	71.0	114.7	90.3	85.0	108.0	111.3	99.8
16	IMHBG16R-3	124.3	83.3	115.7	107.8	120.3	71.0	120.7	94.0	88.5	109.0	128.7	104.7
17	IMHBG16R-2	126.7	84.0	114.3	108.3	124.0	69.0	115.7	88.7	87.5	109.7	115.3	101.4
18	MMH15-8	127.3	79.3	114.3	107.0	118.0	71.0	113.3	91.7	87.0	105.7	111.7	99.7
19	IMHBG16R-9	129.0	80.3	114.0	107.8	119.0	71.0	116.3	90.0	88.5	107.3	114.7	100.9
20	IMHBG16R-5	127.3	79.0	111.0	105.8	116.7	70.0	117.7	92.3	85.0	107.0	113.7	100.4
21	HKH 359	122.0	81.0	113.7	105.6	113.3	70.0	115.3	92.3	84.0	106.7	111.0	99.0
22	IMHBG16R-8	123.3	82.0	115.0	106.8	122.3	71.0	116.3	90.3	87.5	109.0	115.0	101.6
23	MMH15-9	125.7	80.7	115.7	107.3	120.0	71.0	115.3	91.7	87.5	107.7	114.0	101.0
24	IMHBG16R-10	127.0	82.0	116.0	108.3	120.3	70.0	115.3	88.7	88.0	110.7	114.3	101.0
25	AH 7005	125.7	83.0	115.3	108.0	122.0	72.0	119.7	91.7	86.5	106.7	114.7	101.9

TABLE No. 2 (Contd.)

Sl	Entry Name	DAYS TO 50% SILK											
		2				3							
		Karnal Ludhiana Pantnagar Zone Mean				Bahraich Bhubaneshwar Dholi Kalyani Ranchi Sabour Varanasi Zone Mean							
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean		
26	IMHBG16R-6	129.0	79.3	110.7	106.3	119.3	68.0	114.7	88.3	85.0	107.0	111.0	99.0
27	HKH 358	127.0	81.0	112.3	106.8	118.0	71.0	115.0	90.7	86.5	107.3	114.0	100.3
28	IMHBG16R-1	125.0	79.7	109.7	104.8	117.0	69.0	112.0	91.3	85.0	108.7	111.3	99.2
29	REH-2014-3	124.3	84.3	82.3	97.0	120.0	71.0	115.7	89.3	81.9	104.7	114.7	99.9
30	IMH16-15	127.3	81.3	113.3	107.3	121.7	70.0	113.3	89.7	87.5	107.0	113.3	100.3
31	REH-2015-1	126.3	83.7	114.3	108.1	120.0	72.0	115.3	90.3	88.0	107.7	115.3	101.2
32	HM 10 (C)	126.3	79.3	108.7	104.8	116.3	69.0	116.0	93.3	84.5	105.7	120.3	100.8
33	DHM 117 (C)	127.0	84.0	115.7	108.9	121.0	71.7	118.0	90.0	88.0	106.0	117.0	101.7
34	Bio 9544(C)	124.0	82.3	110.0	105.4	116.7	71.3	113.3	91.3	86.0	108.3	113.3	100.0
35	Bio 9637 (C)	128.7	84.7	113.0	108.8	122.7	71.0	114.0	92.0	89.0	105.7	114.7	101.2
	General Mean	126.6	81.2	112.1	106.6	119.1	70.2	115.1	91.0	86.2	107.7	113.7	100.4
	CV(%)	2.2	2.3	9.0	5.8	1.1	1.3	1.7	2.1	1.4	2.6	3.9	2.4
	P-Value	0.2	0.0	0.5	0.2	0.0	0.0	0.0	0.1	0.0	0.9	0.0	0.0
	CD (5%)	4.6	3.0	16.4	5.8	2.0	1.5	3.3	3.0	2.4	4.5	7.2	2.0

TABLE No. 2 (Contd.)

Sl	Entry Name	DAYS TO 50% SILK										
		4							5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	IMHBG16R-7	59.3	74.7	69.7	78.0	74.7	55.7	68.7	91.0	70.3	80.7	89.0
2	REH-2015-2	61.0	76.0	71.3	77.0	78.7	57.7	70.3	90.7	71.0	80.8	89.5
3	100K-16	60.7	72.0	72.0	74.0	76.0	55.7	68.4	89.7	76.7	83.2	88.8
4	IMHBG16R-4	63.0	76.0	70.7	77.0	77.7	57.0	70.2	89.7	76.7	83.2	90.1
5	HKH 360	59.7	72.7	69.3	77.0	74.7	54.0	67.9	91.0	70.3	80.7	88.0
6	CP.898	60.0	72.0	72.3	75.0	74.3	56.0	68.3	88.0	72.3	80.2	87.5
7	VaMH 12013	58.7	71.7	71.3	79.3	75.0	56.3	68.7	88.7	68.7	78.7	88.0
8	IMH16-14	59.3	73.3	70.3	77.0	75.0	55.3	68.4	86.7	76.7	81.7	88.2
9	DKC8185(IR8332)	63.7	77.3	68.0	81.0	77.7	58.7	71.1	91.0	76.3	83.7	90.8
10	WH 1010	58.7	72.3	69.3	73.0	73.3	53.7	66.7	91.3	69.3	80.3	87.0
11	IMH16-12	60.7	74.7	67.0	79.0	75.0	55.3	68.6	90.3	77.3	83.8	88.9
12	100 K-18	60.7	76.3	71.7	81.0	77.3	56.3	70.6	90.3	75.3	82.8	89.8
13	KH-7502	58.7	70.0	67.0	74.0	75.0	54.7	66.6	90.0	71.0	80.5	86.1
14	VEH-16-1	62.7	76.3	73.7	77.0	77.3	58.7	70.9	91.0	76.7	83.8	90.6
15	IMH16-13	60.0	75.0	73.3	79.0	75.3	55.7	69.7	89.7	76.0	82.8	89.1
16	IMHBG16R-3	60.7	75.3	74.0	81.0	76.7	55.7	70.6	90.3	76.0	83.2	91.4
17	IMHBG16R-2	60.3	77.3	66.7	81.0	77.0	56.0	69.7	93.3	76.3	84.8	90.2
18	MMH15-8	60.0	76.7	68.3	81.0	77.0	56.0	69.8	90.3	76.3	83.3	89.2
19	IMHBG16R-9	60.3	76.7	72.0	81.0	76.0	56.0	70.3	92.0	75.3	83.7	90.0
20	IMHBG16R-5	60.3	73.3	70.0	79.0	75.0	56.3	69.0	91.7	76.0	83.8	89.0
21	HKH 359	59.7	71.3	70.0	76.0	76.0	55.7	68.1	90.0	70.7	80.3	87.7
22	IMHBG16R-8	60.3	74.7	71.3	77.0	77.0	58.0	69.7	90.0	76.7	83.3	89.8
23	MMH15-9	63.0	78.7	69.7	81.0	77.3	57.7	71.2	90.7	78.0	84.3	90.3
24	IMHBG16R-10	59.7	75.3	72.3	81.0	76.7	56.0	70.2	90.7	76.7	83.7	90.0
25	AH 7005	64.3	78.0	72.0	81.0	78.0	58.7	72.0	90.0	76.7	83.3	90.9

TABLE No. 2 (Contd.)

Sl	Entry Name	DAYS TO 50% SILK										
		4							5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Zone Mean	Banswara Mean	Godhra Zone Mean	All India Mean		
26	IMHBG16R-6	60.0	75.7	73.7	79.0	76.7	56.0	70.2	90.3	76.3	83.3	88.9
27	HKH 358	59.3	75.3	70.0	76.0	76.7	55.7	68.8	89.7	76.0	82.8	89.0
28	IMHBG16R-1	60.0	73.3	74.0	76.0	76.0	55.7	69.2	91.3	71.7	81.5	88.2
29	REH-2014-3	59.3	77.3	73.0	77.0	77.3	57.7	70.3	90.3	71.7	81.0	87.4
30	IMH16-15	60.0	74.0	68.7	81.0	76.0	56.0	69.3	91.0	76.3	83.7	89.3
31	REH-2015-1	60.0	76.7	71.3	81.0	77.3	57.7	70.7	89.3	72.0	80.7	89.9
32	HM 10 (C)	60.3	72.0	71.0	81.0	74.7	56.3	69.2	88.0	73.3	80.7	88.7
33	DHM 117 (C)	64.7	77.3	73.7	81.0	77.3	57.3	71.9	93.3	71.0	82.2	90.8
34	Bio 9544(C)	59.7	72.7	71.7	77.0	77.0	56.3	69.1	90.7	71.0	80.8	88.5
35	Bio 9637 (C)	60.3	75.3	72.3	79.3	76.7	57.3	70.2	90.3	69.7	80.0	89.8
	General Mean	60.5	74.8	70.9	78.5	76.3	56.4	69.6	90.4	74.1	82.2	89.1
	CV(%)	1.3	1.9	1.4	0.4	1.3	1.4	1.3	1.3	0.9	1.2	3.4
	P-Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
	CD (5%)	1.3	2.3	1.6	0.4	1.6	1.3	1.7	1.9	1.1	4.6	1.4

TABLE No. 2 (Contd.)

Sl	Entry Name	DAYS TO 75% DRY HUSK										
		2			3							
		Karnal Ludhiana Zone Mean			Bhraich Bhubaneshwar		Dholi Kalyani		Ranchi Sabour		Varanasi Zone Mean	
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
1	IMHBG16R-7	165.0	117.7	141.3	155.3	110.0	142.3	129.0	124.5	145.7	147.3	136.4
2	REH-2015-2	165.3	121.0	143.2	155.0	108.0	143.7	129.7	125.0	149.7	147.7	137.0
3	100K-16	161.3	117.3	139.3	156.3	107.0	137.7	125.7	122.7	144.7	143.0	133.9
4	IMHBG16R-4	164.3	118.0	141.2	155.7	108.0	142.0	133.0	125.5	143.7	146.3	136.3
5	HKH 360	164.3	115.7	140.0	153.3	108.0	140.3	122.0	121.0	141.0	146.3	133.2
6	CP.898	165.0	118.3	141.7	150.3	110.0	142.7	128.3	122.5	145.7	145.0	135.0
7	VaMH 12013	164.7	116.3	140.5	152.7	108.0	138.0	138.3	124.0	148.3	143.3	136.2
8	IMH16-14	162.3	117.7	140.0	151.7	110.0	140.3	126.0	123.0	140.3	144.7	133.7
9	DKC8185(IR8332)	167.3	118.0	142.7	156.3	109.0	141.0	123.3	125.0	143.3	149.3	135.3
10	WH 1010	161.3	114.3	137.8	150.3	109.0	136.7	127.0	119.0	142.7	142.3	132.5
11	IMH16-12	165.3	117.7	141.5	154.3	109.0	139.7	132.3	123.0	149.0	146.7	136.4
12	100 K-18	165.3	117.0	141.2	153.3	109.0	140.0	132.3	124.5	142.3	146.3	135.4
13	KH-7502	162.3	114.7	138.5	152.3	108.0	127.7	125.7	155.0	146.0	140.0	135.4
14	VEH-16-1	164.7	119.7	142.2	156.3	109.0	155.7	124.3	126.0	144.3	147.3	137.6
15	IMH16-13	164.0	115.3	139.7	154.3	109.0	139.7	133.3	123.0	142.0	145.7	135.4
16	IMHBG16R-3	164.7	120.3	142.5	156.3	109.0	143.7	125.7	125.5	141.3	149.3	135.8
17	IMHBG16R-2	167.0	120.7	143.8	157.3	109.0	142.0	124.3	124.5	144.7	147.0	135.6
18	MMH15-8	164.0	116.7	140.3	154.3	109.0	141.0	122.0	125.5	144.3	145.3	134.5
19	IMHBG16R-9	166.7	117.0	141.8	154.7	109.0	144.3	129.7	124.0	146.7	146.3	136.5
20	IMHBG16R-5	163.7	117.0	140.3	151.7	109.0	142.0	125.3	123.5	146.7	146.0	134.9
21	HKH 359	162.7	115.7	139.2	153.3	109.0	138.7	123.3	122.0	142.7	140.0	132.7
22	IMHBG16R-8	164.7	117.0	140.8	156.7	110.0	139.7	129.7	125.0	145.7	147.7	136.4
23	MMH15-9	161.3	115.0	138.2	152.3	109.0	137.3	125.7	125.5	145.3	145.7	134.4
24	IMHBG16R-10	164.0	117.0	140.5	154.3	110.0	141.7	133.0	125.5	146.7	147.3	137.0
25	AH 7005	165.0	120.0	142.5	158.3	111.0	144.7	125.7	126.0	144.7	148.3	137.0

TABLE No. 2 (Contd.)

Sl	Entry Name	DAYS TO 75% DRY HUSK										
		2			3							
		Karnal Ludhiana Zone Mean			Bhraich Bhubaneshwar		Dholi Kalyani		Ranchi Sabour		Varanasi Zone Mean	
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
26	IMHBG16R-6	164.7	117.3	141.0	154.3	108.0	141.7	125.0	123.0	143.7	143.7	134.2
27	HKH 358	164.0	118.0	141.0	154.7	109.0	141.0	134.7	124.5	146.3	145.7	136.6
28	IMHBG16R-1	161.7	114.3	138.0	148.3	109.0	136.7	131.7	122.5	145.3	143.3	133.9
29	REH-2014-3	165.3	118.0	141.7	152.3	108.7	141.3	126.7	120.8	137.0	147.7	133.6
30	IMH16-15	165.0	118.3	141.7	155.3	110.0	141.7	124.7	124.5	144.0	148.0	135.5
31	REH-2015-1	163.7	121.7	142.7	154.3	108.0	142.7	123.3	125.0	141.0	149.7	134.8
32	HM 10 (C)	164.3	121.7	143.0	153.7	109.0	143.0	124.3	123.0	141.0	145.3	134.2
33	DHM 117 (C)	164.3	117.7	141.0	152.3	109.0	140.7	131.0	125.5	141.0	149.3	135.5
34	Bio 9544(C)	162.3	118.0	140.2	152.3	109.0	140.7	124.7	124.5	143.3	146.7	134.4
35	Bio 9637 (C)	166.0	120.3	143.2	155.7	109.0	144.3	123.3	126.5	141.3	147.3	135.3
	General Mean	164.2	117.7	141.0	154.0	109.0	141.0	127.5	124.9	144.0	146.0	135.2
	CV(%)	1.1	1.4	1.2	0.7	0.9	4.3	2.5	6.8	3.6	0.8	3.1
	P-Value	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.7	0.7	0.0	0.3
	CD (5%)	3.1	2.6	2.6	1.7	1.5	9.8	5.1	17.3	8.4	1.9	3.4

TABLE No. 2 (Contd.)

Sl	Entry Name	DAYS TO 75% DRY HUSK										
		4							5		6	
		Coimbatore Dharwad Karimnagar Kolhapur Rahuri Vagarai Zone Mean							Banswara Godhra Zone Mean		All India	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
1	IMHBG16R-7	99.3	112.0	104.7	117.0	116.7	94.0	106.3	118.7	97.7	108.2	124.1
2	REH-2015-2	100.3	114.7	106.3	115.7	120.7	96.7	107.9	124.0	96.7	110.3	125.4
3	100K-16	101.0	110.0	107.0	112.7	119.3	95.0	107.0	119.7	94.3	107.0	122.8
4	IMHBG16R-4	102.0	112.7	105.7	115.0	119.7	95.7	107.6	122.0	98.7	110.3	124.7
5	HKH 360	100.3	110.0	104.3	115.0	115.3	93.3	105.7	119.7	96.0	107.8	122.3
6	CP.898	100.3	114.7	107.3	113.7	116.3	95.0	106.5	120.0	96.0	108.0	123.6
7	VaMH 12013	99.0	110.0	106.3	117.0	117.7	95.7	107.1	118.3	98.7	108.5	124.2
8	IMH16-14	99.3	114.0	105.3	115.7	116.0	94.7	106.2	117.0	97.0	107.0	122.6
9	DKC8185(IR8332)	103.0	114.0	103.0	120.0	119.0	97.7	108.5	123.3	93.3	108.3	124.5
10	WH 1010	98.7	114.0	104.3	111.7	115.7	93.0	104.7	118.3	100.0	109.2	121.6
11	IMH16-12	100.7	114.7	102.0	117.7	116.0	94.0	106.1	121.7	98.7	110.2	124.3
12	100 K-18	100.7	112.0	106.7	120.0	117.7	95.3	108.1	118.7	100.3	109.5	124.4
13	KH-7502	98.7	108.7	102.0	112.7	117.3	93.3	104.8	119.3	97.0	108.2	122.9
14	VEH-16-1	102.0	112.7	108.7	115.0	119.0	97.7	108.5	119.3	96.0	107.7	125.3
15	IMH16-13	100.0	114.7	108.3	117.7	116.3	94.7	107.4	118.0	103.7	110.8	124.1
16	IMHBG16R-3	100.7	449.3	109.0	120.0	118.3	94.0	108.4	118.7	101.3	110.0	124.9
17	IMHBG16R-2	100.3	113.3	101.7	119.7	119.0	95.3	107.2	125.7	96.0	110.8	124.7
18	MMH15-8	100.3	114.0	103.3	120.0	118.3	95.3	107.5	120.3	94.7	107.5	123.4
19	IMHBG16R-9	100.7	116.0	107.0	120.0	117.7	95.3	108.1	119.3	97.7	108.5	124.8
20	IMHBG16R-5	100.0	114.3	105.0	115.0	115.7	95.7	106.3	123.0	99.0	111.0	123.7
21	HKH 359	99.7	110.0	105.0	116.0	116.0	94.7	106.3	119.0	98.3	108.7	122.3
22	IMHBG16R-8	99.7	112.0	106.3	115.7	117.7	97.0	107.3	120.3	102.3	111.3	124.7
23	MMH15-9	103.0	116.0	104.7	120.0	119.0	96.7	108.7	118.7	96.7	107.7	123.5
24	IMHBG16R-10	99.7	114.7	107.3	120.0	117.7	95.3	108.0	119.7	100.3	110.0	125.0
25	AH 7005	103.7	116.7	107.0	120.0	118.0	97.0	109.1	118.7	96.7	107.7	125.3

TABLE No. 2 (Contd.)

Sl	Entry Name	DAYS TO 75% DRY HUSK										
		4							5		6	
		Coimbatore Dharwad Karimnagar Kolhapur Rahuri Vagarai Zone Mean							Banswara Godhra Zone Mean		All India	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
26	IMHBG16R-6	100.0	115.3	108.7	118.3	117.0	95.0	107.8	122.0	101.3	111.7	124.0
27	HKH 358	99.7	114.7	105.0	114.0	117.3	94.3	106.1	121.3	96.0	108.7	124.1
28	IMHBG16R-1	100.0	108.7	109.0	114.0	116.7	95.0	106.9	119.0	94.7	106.8	122.6
29	REH-2014-3	99.7	115.7	108.0	115.0	117.7	96.0	107.3	121.3	97.7	109.5	123.4
30	IMH16-15	100.0	116.0	103.7	119.7	116.0	95.3	106.9	118.3	96.3	107.3	123.8
31	REH-2015-1	99.7	116.0	106.3	119.7	117.3	96.0	107.8	120.3	98.3	109.3	124.2
32	HM 10 (C)	100.0	113.3	106.0	120.0	116.7	95.0	107.5	117.0	97.3	107.2	123.6
33	DHM 117 (C)	103.7	116.0	108.7	119.3	118.3	96.3	109.3	125.0	98.3	111.7	125.0
34	Bio 9544(C)	99.7	113.3	106.7	115.0	119.0	95.3	107.1	123.0	95.0	109.0	123.5
35	Bio 9637 (C)	100.0	114.0	107.3	118.7	118.7	96.3	108.2	119.0	95.7	107.3	124.3
	General Mean	100.4	123.1	105.9	117.0	117.6	95.3	107.3	120.2	97.7	108.9	123.9
	CV(%)	1.0	79.2	0.9	1.0	1.0	0.8	1.0	1.9	2.0	1.9	2.4
	P-Value	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0
	CD (5%)	1.7	158.8	1.6	2.0	1.9	1.2	2.0	3.6	3.1	5.0	1.7

TABLE No. 2 (Contd.)

Sl	Entry Name	PLANT HEIGHT											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	IMHBG16R-7	166.7	200.0	227.0	197.9	190.8	190.7	187.0	177.3	228.3	200.7	190.7	161.7
2	REH-2015-2	164.0	188.3	218.3	190.2	199.0	172.5	204.0	200.0	247.0	202.8	206.7	168.3
3	100K-16	170.3	188.3	223.7	194.1	193.6	188.9	195.3	168.3	258.3	185.6	209.7	165.0
4	IMHBG16R-4	162.0	198.3	244.0	201.4	199.1	195.9	200.0	198.3	220.3	217.3	203.3	165.0
5	HKH 360	150.7	183.3	226.0	186.7	194.3	199.7	199.0	189.0	235.0	187.5	192.0	155.0
6	CP.898	155.0	188.3	208.0	183.8	183.9	178.0	188.7	181.7	224.0	178.6	200.3	151.7
7	VaMH 12013	161.3	166.7	220.7	182.9	196.7	178.1	195.0	213.0	228.0	211.1	208.3	156.7
8	IMH16-14	175.0	188.3	202.3	188.6	185.2	185.3	197.3	169.3	218.7	176.4	211.7	163.3
9	DKC8185(IR8332)	162.7	216.7	244.0	207.8	211.5	214.8	199.3	196.3	266.3	208.6	200.3	183.3
10	WH 1010	164.0	183.3	208.7	185.3	198.6	202.2	197.0	199.3	225.0	197.8	203.0	170.0
11	IMH16-12	162.3	195.0	212.0	189.8	187.7	177.7	189.3	184.3	233.3	194.2	201.3	148.3
12	100 K-18	168.7	203.3	244.7	205.6	211.2	217.8	197.0	198.3	250.3	211.9	199.3	191.7
13	KH-7502	148.3	195.0	200.3	181.2	168.7	150.1	200.0	172.7	179.7	165.9	193.0	143.3
14	VEH-16-1	178.3	206.7	231.0	205.3	196.7	179.3	197.7	196.3	230.7	207.6	188.7	170.0
15	IMH16-13	168.0	168.3	206.7	181.0	180.5	177.0	203.7	167.3	211.0	173.3	203.0	150.0
16	IMHBG16R-3	156.7	193.3	210.0	186.7	188.6	187.6	200.0	161.0	241.0	196.2	189.0	146.7
17	IMHBG16R-2	161.0	183.3	212.0	185.4	179.9	174.0	201.0	178.3	194.3	180.3	175.3	151.7
18	MMH15-8	162.7	175.0	206.7	181.4	183.6	186.9	199.3	166.0	217.7	174.0	206.3	156.7
19	IMHBG16R-9	145.0	186.7	204.7	178.8	181.6	177.6	195.3	152.3	217.0	191.7	202.7	156.7
20	IMHBG16R-5	163.3	176.7	177.7	172.6	180.0	169.9	203.7	157.3	238.0	170.1	200.7	140.0
21	HKH 359	149.0	183.3	209.0	180.4	182.2	179.9	198.3	161.7	225.3	177.5	205.3	150.0
22	IMHBG16R-8	165.3	185.0	224.7	191.7	191.6	183.2	199.3	188.3	217.7	204.3	172.0	158.3
23	MMH15-9	152.0	171.7	156.0	159.9	167.2	185.7	196.7	156.7	176.7	163.5	207.3	123.3
24	IMHBG16R-10	159.3	203.3	230.0	197.6	199.6	192.0	198.0	198.7	245.7	198.1	201.0	165.0
25	AH 7005	150.3	183.3	200.0	177.9	173.0	163.7	198.3	169.0	205.0	166.2	198.3	135.0

TABLE No. 2 (Contd.)

Sl	Entry Name	PLANT HEIGHT											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
26	IMHBG16R-6	163.3	203.3	217.0	194.6	198.9	193.6	194.0	199.7	260.3	187.5	207.0	156.7
27	HKH 358	151.7	175.0	210.0	178.9	178.7	167.5	199.3	162.7	231.7	168.3	200.7	141.7
28	IMHBG16R-1	160.0	163.3	214.7	179.3	186.2	185.9	199.3	166.7	232.3	182.3	214.0	150.0
29	REH-2014-3	170.3	196.7	220.7	195.9	198.6	186.5	194.7	182.7	255.3	191.4	196.7	178.3
30	IMH16-15	163.3	193.3	224.7	193.8	204.3	190.6	195.3	220.7	242.3	209.3	206.0	168.3
31	REH-2015-1	161.0	193.3	205.3	186.6	193.7	195.2	198.3	167.7	253.7	197.8	196.3	150.0
32	HM 10 (C)	158.7	185.0	224.7	189.4	197.7	200.0	198.7	172.3	252.3	197.9	211.0	165.0
33	DHM 117 (C)	165.3	198.3	221.7	195.1	198.6	200.0	199.0	186.0	242.7	204.9	195.0	160.0
34	Bio 9544(C)	161.7	158.3	205.3	175.1	184.6	187.3	198.0	159.4	225.3	177.5	838.3	156.7
35	Bio 9637 (C)	187.3	195.0	223.3	201.9	197.7	193.5	199.3	189.0	235.3	186.2	197.7	181.7
	General Mean	161.9	187.8	214.7	188.1	190.4	186.0	197.6	180.5	230.5	189.8	218.1	158.1
	CV(%)	8.9	10.0	5.0	8.0	5.5	7.2	3.6	2.8	6.2	5.6	86.2	5.4
	P-Value	0.4	0.1	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.5	0.0
	CD (5%)	23.5	30.6	17.3	17.0	13.1	21.9	11.6	8.3	23.4	21.8	306.3	14.0

TABLE No. 2 (Contd.)

Sl	Entry Name	PLANT HEIGHT										
		4							5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	IMHBG16R-7	200.9	156.1	204.9	208.7	161.7	263.3	211.0	225.3	261.7	188.9	199.7
2	REH-2015-2	195.8	172.7	203.3	189.7	160.0	253.3	195.7	199.2	200.0	198.3	196.3
3	100K-16	199.5	163.0	198.4	196.3	175.0	255.0	209.2	205.8	216.7	195.0	197.2
4	IMHBG16R-4	211.4	175.5	210.7	199.7	178.3	276.7	227.7	217.2	240.0	194.4	206.0
5	HKH 360	186.3	161.0	191.4	176.7	151.7	240.0	197.3	206.9	233.3	180.6	191.6
6	CP.898	197.2	166.0	199.0	196.0	156.7	260.0	205.3	223.3	256.7	190.0	193.3
7	VaMH 12013	198.7	160.7	200.4	203.0	161.7	266.7	200.0	211.1	220.0	202.2	196.6
8	IMH16-14	194.4	162.5	184.3	194.3	176.7	265.0	183.7	215.3	228.3	202.2	192.7
9	DKC8185(IR8332)	216.7	178.0	220.9	213.3	188.3	281.7	217.8	218.3	246.7	190.0	213.5
10	WH 1010	203.5	174.8	222.1	185.7	175.0	256.7	206.8	198.6	208.3	188.9	197.9
11	IMH16-12	194.0	169.9	192.1	199.7	140.0	260.0	202.1	204.2	218.3	190.0	192.2
12	100 K-18	211.8	180.6	209.9	209.0	170.0	276.7	224.3	206.7	233.3	180.0	209.8
13	KH-7502	180.7	151.9	191.3	165.7	145.0	243.3	186.9	218.6	240.0	197.2	181.1
14	VEH-16-1	206.1	184.1	218.6	186.0	175.0	265.0	207.6	208.3	226.7	190.0	202.9
15	IMH16-13	180.2	156.2	179.1	169.7	146.7	243.3	186.3	210.3	236.7	183.9	184.0
16	IMHBG16R-3	182.9	171.2	179.8	173.0	133.3	253.3	186.8	197.5	216.7	178.3	187.2
17	IMHBG16R-2	174.9	138.1	187.0	166.3	131.7	255.0	171.1	214.7	253.3	176.1	183.2
18	MMH15-8	186.9	158.4	201.9	185.0	148.3	238.3	189.5	194.2	203.3	185.0	185.7
19	IMHBG16R-9	194.7	167.2	196.1	199.7	151.7	261.7	191.9	195.3	201.7	188.9	187.3
20	IMHBG16R-5	176.4	161.4	180.1	168.0	136.7	235.0	177.2	206.1	220.0	192.2	180.5
21	HKH 359	186.2	152.6	190.8	189.0	155.0	240.0	189.6	213.6	236.7	190.6	187.0
22	IMHBG16R-8	209.2	178.1	212.2	203.3	191.7	251.7	218.1	190.3	205.0	175.6	197.7
23	MMH15-9	155.8	145.3	140.3	163.7	115.0	190.0	180.7	222.5	253.3	191.7	168.4
24	IMHBG16R-10	211.2	179.9	212.2	207.0	181.7	266.7	219.5	210.8	221.7	200.0	204.7
25	AH 7005	184.1	152.2	176.8	180.7	145.0	251.7	198.5	217.8	248.3	187.2	183.1

TABLE No. 2 (Contd.)

Sl	Entry Name	PLANT HEIGHT										
		4							5			All India
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean		
26	IMHBG16R-6	204.6	165.4	201.7	208.3	161.7	278.3	212.3	201.4	215.0	187.8	200.4
27	HKH 358	180.6	163.3	186.5	155.3	155.0	233.3	189.9	221.4	253.3	189.4	184.5
28	IMHBG16R-1	180.9	142.9	192.9	171.0	158.3	240.0	180.5	219.4	255.0	183.9	187.0
29	REH-2014-3	192.7	169.5	200.4	175.3	153.3	261.7	195.9	188.9	206.7	171.1	194.7
30	IMH16-15	206.3	177.2	215.0	200.7	168.3	266.7	209.9	204.4	236.7	172.2	203.1
31	REH-2015-1	184.5	151.4	177.5	178.7	156.7	241.7	200.9	209.4	243.3	175.6	191.0
32	HM 10 (C)	188.9	156.6	189.7	182.7	125.0	268.3	210.8	214.7	236.7	192.8	195.1
33	DHM 117 (C)	197.6	170.6	198.6	188.0	160.0	248.3	220.1	218.3	251.7	185.0	199.9
34	Bio 9544(C)	188.3	159.4	197.7	161.3	158.3	250.0	203.1	194.7	200.0	189.4	185.4
35	Bio 9637 (C)	200.4	168.9	214.5	180.3	170.0	273.3	195.5	203.1	221.7	184.4	200.1
	General Mean	193.3	164.1	196.5	186.6	157.7	254.6	200.1	208.8	229.9	187.7	193.2
	CV(%)	6.3	6.3	6.6	6.9	9.2	5.6	3.1	7.4	7.6	7.2	6.6
	P-Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.4	0.0
	CD (5%)	10.6	16.9	21.1	21.0	23.7	23.3	10.0	29.5	28.3	22.0	8.0

TABLE No. 2 (Contd.)

Sl	Entry Name	EAR HEIGHT											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	IMHBG16R-7	85.3	113.3	94.7	97.8	87.5	94.3	84.0	84.3	99.4	99.7	71.7	88.5
2	REH-2015-2	86.7	100.0	85.7	90.8	69.4	101.0	92.7	97.0	100.8	104.3	78.3	91.8
3	100K-16	82.3	106.7	96.0	95.0	81.0	93.7	91.3	101.7	92.6	108.0	76.7	92.1
4	IMHBG16R-4	76.7	108.3	93.3	92.8	76.9	97.7	88.7	74.7	104.0	98.7	80.0	88.4
5	HKH 360	85.0	110.0	96.7	97.2	90.0	97.7	93.7	80.7	99.2	93.7	85.0	91.3
6	CP.898	71.0	98.3	75.7	81.7	82.0	96.3	73.0	69.0	75.4	100.7	66.7	80.6
7	VaMH 12013	76.0	111.7	83.3	90.3	74.4	95.0	92.3	78.0	54.0	113.3	66.7	82.5
8	IMH16-14	87.7	116.7	87.0	97.1	95.5	96.7	91.0	96.0	100.8	99.3	96.7	96.5
9	DKC8185(IR8332)	80.7	115.0	98.0	97.9	103.3	99.7	92.7	122.7	101.6	95.7	86.7	100.3
10	WH 1010	74.3	103.3	83.3	87.0	92.0	100.3	86.7	90.3	97.0	95.0	83.3	92.0
11	IMH16-12	79.7	106.7	83.3	89.9	81.2	90.7	85.0	90.7	83.3	100.0	61.7	84.7
12	100 K-18	81.0	128.3	106.0	105.1	104.9	98.7	94.0	106.7	10.7	95.7	108.3	89.8
13	KH-7502	83.0	100.0	89.3	90.8	72.1	102.3	92.7	76.0	88.0	102.0	80.0	87.6
14	VEH-16-1	80.3	103.3	91.0	91.6	70.7	98.3	99.0	90.7	103.4	90.0	76.7	89.6
15	IMH16-13	74.7	96.7	81.0	84.1	67.7	98.0	70.0	83.3	86.9	101.0	76.7	83.3
16	IMHBG16R-3	78.7	103.3	75.7	85.9	76.9	98.3	69.3	90.0	91.2	91.0	66.7	83.2
17	IMHBG16R-2	81.7	96.7	76.0	84.8	64.6	100.3	87.7	55.0	82.3	106.7	66.7	80.5
18	MMH15-8	88.3	103.3	93.0	94.9	99.7	98.3	87.7	94.3	101.0	107.7	88.3	96.7
19	IMHBG16R-9	63.3	88.3	67.0	72.9	69.3	94.7	57.0	65.3	83.6	104.0	60.0	76.2
20	IMHBG16R-5	85.0	110.0	70.7	88.6	84.5	103.3	70.0	116.0	93.6	99.7	76.7	92.0
21	HKH 359	90.0	110.0	89.3	96.4	84.5	96.7	77.7	99.3	90.7	98.3	86.7	90.6
22	IMHBG16R-8	78.0	91.7	89.7	86.4	69.5	100.3	86.0	78.3	96.7	98.3	71.7	85.7
23	MMH15-9	67.0	96.7	56.0	73.2	96.6	98.7	65.0	73.0	90.7	104.0	63.3	84.4
24	IMHBG16R-10	72.0	111.7	87.0	90.2	77.0	98.0	90.7	85.3	86.8	96.0	68.3	86.0
25	AH 7005	72.7	105.0	84.7	87.4	84.6	101.0	91.7	96.3	96.3	98.0	73.3	91.6

TABLE No. 2 (Contd.)

Sl	Entry Name	EAR HEIGHT											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
26	IMHBG16R-6	71.0	108.3	75.7	85.0	84.5	95.0	84.0	100.0	88.7	99.7	56.7	86.9
27	HKH 358	70.7	100.0	86.0	85.6	79.7	97.7	88.0	98.0	94.5	99.7	76.7	90.6
28	IMHBG16R-1	86.0	91.7	94.0	90.6	98.7	97.3	83.7	102.7	101.9	108.3	73.3	95.0
29	REH-2014-3	80.7	95.0	89.3	88.3	85.3	97.7	90.7	110.3	99.5	97.7	85.0	95.0
30	IMH16-15	82.7	96.7	88.7	89.3	80.3	97.7	107.3	93.7	99.2	101.0	81.7	94.3
31	REH-2015-1	74.3	100.0	77.3	83.9	70.9	98.3	72.7	105.3	95.6	99.0	71.7	87.5
32	HM 10 (C)	79.7	111.7	90.7	94.0	87.2	95.0	122.3	96.0	100.7	105.3	90.0	99.5
33	DHM 117 (C)	81.0	113.3	99.3	97.9	88.4	97.0	89.3	105.7	104.5	98.0	85.0	95.3
34	Bio 9544(C)	89.3	96.7	91.0	92.3	98.6	97.7	86.0	106.7	100.7	100.3	85.0	96.4
35	Bio 9637 (C)	100.7	115.0	93.3	103.0	93.4	99.3	92.7	106.3	92.4	99.3	98.3	97.5
	General Mean	79.9	104.7	86.3	90.3	83.5	97.8	86.5	92.0	91.0	100.3	77.7	89.8
	CV(%)	15.3	9.7	8.8	11.3	13.3	6.4	11.7	9.1	13.8	10.6	10.5	10.7
	P-Value	0.4	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.9	0.0	0.0
	CD (5%)	20.0	16.6	12.3	10.5	18.0	10.2	16.4	13.6	25.6	17.3	13.3	11.1

TABLE No. 2 (Contd.)

Sl	Entry Name	EAR HEIGHT										
		4							5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	IMHBG16R-7	81.2	124.7	109.3	98.3	121.3	108.0	107.1	121.7	88.3	105.0	98.7
2	REH-2015-2	82.2	119.7	93.7	95.0	113.3	92.9	99.5	103.3	85.6	94.4	95.0
3	100K-16	80.4	113.8	95.7	101.7	120.0	88.2	100.0	105.0	86.7	95.8	96.2
4	IMHBG16R-4	84.5	125.9	99.3	105.0	123.0	112.6	108.4	118.3	90.0	104.2	98.0
5	HKH 360	81.1	120.5	92.3	91.7	113.3	101.9	100.1	105.0	86.7	95.8	96.3
6	CP.898	77.5	106.3	87.3	70.0	110.0	89.9	90.2	118.3	87.2	102.8	86.4
7	VaMH 12013	78.3	106.3	89.0	83.3	108.3	89.2	92.4	111.7	92.7	102.2	89.2
8	IMH16-14	90.1	112.3	113.7	111.7	125.3	94.4	107.9	113.3	183.9	148.6	101.6
9	DKC8185(IR8332)	85.1	126.9	102.3	100.0	122.0	111.8	108.0	108.3	89.4	98.9	103.1
10	WH 1010	88.1	121.5	85.3	93.3	105.0	107.6	100.1	128.3	96.7	112.5	96.1
11	IMH16-12	74.2	107.3	91.0	75.0	111.0	91.2	91.6	110.0	92.2	101.1	89.6
12	100 K-18	92.3	126.7	118.7	101.7	125.7	112.5	112.9	108.3	90.0	99.2	102.0
13	KH-7502	69.2	114.7	86.3	83.3	113.3	84.3	91.9	106.7	97.2	101.9	90.8
14	VEH-16-1	86.9	115.0	85.3	85.0	114.7	102.7	98.3	115.0	91.1	103.1	94.5
15	IMH16-13	88.7	107.1	86.0	90.0	117.7	91.1	96.8	105.0	87.2	96.1	89.5
16	IMHBG16R-3	72.2	102.9	77.7	68.3	117.7	81.5	86.7	113.3	83.6	98.4	86.7
17	IMHBG16R-2	63.2	96.3	72.0	68.3	110.0	75.0	80.8	120.0	84.4	102.2	83.7
18	MMH15-8	89.1	122.9	100.3	90.0	121.3	105.8	104.9	106.7	87.8	97.2	99.8
19	IMHBG16R-9	72.4	104.5	88.7	81.7	113.0	83.9	90.7	101.7	89.4	95.6	82.2
20	IMHBG16R-5	81.3	105.9	94.7	86.7	114.0	88.0	95.1	110.0	93.9	101.9	93.5
21	HKH 359	89.1	117.3	97.0	90.0	108.0	87.9	98.2	113.3	82.2	97.8	95.7
22	IMHBG16R-8	84.2	121.0	98.0	103.3	116.3	112.7	105.9	105.0	75.6	90.3	94.1
23	MMH15-9	66.4	79.8	92.0	56.7	100.0	80.2	79.2	110.0	91.1	100.6	82.0
24	IMHBG16R-10	94.2	122.6	98.0	120.0	126.3	106.4	111.3	105.0	93.9	99.4	96.9
25	AH 7005	78.2	105.5	97.7	81.7	122.0	101.3	97.7	131.7	88.3	110.0	95.4

TABLE No. 2 (Contd.)

Sl	Entry Name	EAR HEIGHT										
		4							5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
26	IMHBG16R-6	78.8	124.4	103.0	88.3	122.3	100.9	103.0	113.3	89.4	101.4	93.8
27	HKH 358	87.3	117.0	88.0	101.7	110.0	94.9	99.8	118.3	85.0	101.7	94.6
28	IMHBG16R-1	78.2	117.7	97.0	96.7	125.0	92.1	101.4	96.7	84.4	90.6	96.5
29	REH-2014-3	84.5	114.7	84.3	85.0	111.7	91.6	95.3	110.0	78.3	94.2	94.7
30	IMH16-15	86.5	120.7	92.0	90.0	117.7	98.8	100.9	113.3	79.4	96.4	96.9
31	REH-2015-1	74.3	92.0	75.7	85.0	101.7	91.4	86.7	126.7	87.2	106.9	88.8
32	HM 10 (C)	79.0	112.8	86.7	73.3	120.7	89.7	93.7	113.3	85.6	99.4	97.2
33	DHM 117 (C)	82.2	121.0	91.0	93.3	110.0	112.0	101.6	116.7	92.8	104.7	99.2
34	Bio 9544(C)	83.2	115.5	85.3	91.7	117.7	114.3	101.3	111.7	94.4	103.1	98.3
35	Bio 9637 (C)	88.5	129.3	88.3	108.3	124.0	104.5	107.2	95.0	90.0	92.5	101.8
	General Mean	81.5	114.1	92.7	89.9	115.8	96.9	98.5	111.7	90.9	101.3	94.2
	CV(%)	7.5	7.5	9.0	16.6	5.1	4.7	8.9	8.0	31.6	19.8	10.0
	P-Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0
	CD (5%)	9.9	14.0	13.6	24.2	9.6	7.4	7.4	14.6	46.8	30.7	6.0

TABLE NO. 3: PERFORMANCE OF EXPERIMENTAL HYBRIDS/SINGLE CROSS/TOP CROSS & COMPOSITES AT KARNAL, LUDHIANA, PANTNAGAR, BAHAIRCH, BHUBANESHWAR, DHOLI, KALYANI, RANCHI, SABOUR, VARANASI, COIMBATORE, DHARWAD, KARIMNAGAR, KOLHAPUR, MANDYA, RAHURI, VAGARAI, BANSWARA & GODHRA IN TR.4 DURING RABI (2016-17)

Sl	Entry Name	GRAIN YIELD (kg/Ha) at 15% MOISTURE																									
		2										3															
		Karnal		Ludhiana		Pantnagar		Zone		Bahraich		Bhubaneshwar		Dholi		Kalyani		Ranchi		Sabour		Varanasi		Zone			
Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank		
1	CP.808	10209	3	9570	8	7802	7	9889	4	8453	5	7320	2	9743	6	16758	1	12328	6	1398	4	7818	10	9131	5		
2	DKC9177 (IP8572)	7465	11	9998	6	6760	11	8731	9	6500	9	6435	8	10145	4	14615	7	17334	1	962	12	9252	5	9902	1		
3	MM 2222	8658	8	10778	2	8166	6	9718	6	5376	11	5994	11	7397	10	9395	12	12833	3	1404	3	8641	8	8036	11		
4	KMH-3981	7712	10	10441	5	7682	9	9076	8	11108	1	7572	1	7042	11	15606	3	10580	11	1384	5	9264	4	9124	6		
5	115-08-01	9188	5	9461	10	10011	4	9325	7	9131	4	5851	12	8317	8	13773	10	12573	5	1003	11	6776	12	8522	8		
6	DKC9170 (IQ8579)	10872	1	9944	7	7787	8	10408	3	7343	7	6004	10	10631	2	14584	8	12784	4	1438	2	10901	1	9531	2		
7	DKC9175(IP8514)	8787	7	12241	1	10374	3	10514	2	5994	10	6808	4	10014	5	16247	2	8347	12	1163	9	10768	2	8408	10		
8	PM15202L	10603	2	10692	3	11489	2	10648	1	7914	6	6654	6	7694	9	14325	9	10866	10	1223	8	9026	6	8436	9		
9	P3522 (C)	7211	12	9522	9	13318	1	8367	11	10220	2	6442	7	10508	3	14816	6	11212	9	1157	10	8689	7	9423	4		
10	Seedtech 2324 (C)	7835	9	8487	11	7331	10	8161	12	9519	3	6740	5	8625	7	14994	4	11308	8	1315	6	7677	11	8778	7		
11	Buland (C)	9203	4	8075	12	5889	12	8639	10	5040	12	6071	9	5942	12	13341	11	13074	2	1850	1	8104	9	7629	12		
12	Bio 9981 (C)	9057	6	10603	4	9705	5	9830	5	6784	8	7125	3	11339	1	14983	5	11970	7	1311	7	10036	3	9454	3		
	General Mean	8900	.	9984	.	8859	.	9442	.	7782	.	6585	.	8950	.	14453	.	12101	.	1301	.	8913	.	8865	.		
	CV(%)	6.03	.	9.3	.	33.62	.	8.03	.	8.01	.	3.02	.	4.68	.	23.19	.	15.2	.	19.68	.	7.51	.	8.59	.		
	P-Value	0	.	0	.	0.18	.	0.39	.	0	.	0	.	0	.	0.54	.	0.06	.	0.03	.	0	.	0.57	.		
	CD (5%)	908.02	.	1572	.	5043.4	.	2436.8	.	1055.88	.	336.76	.	709.5	.	5675.39	.	4047.88	.	433.59	.	1133.11	.	2066.92	.		
	CD (1%)	1234.16	.	2136.62	.	6854.87	.	3438.56	.	1435.12	.	457.71	.	964.34	.	7713.84	.	5711.96	.	589.32	.	1540.1	.	2761.15	.		
	Plot Size	12		10.6		12				9.6		9.6		6		12		5.6		9.6		9.6					
	AGRONOMY DATA																										
	Sowing Date	29-11-16		2-2-17		20-12-16				3-12-16		6-12-16		30-11-16		14-12-16		3-2-17		8-12-16		30-11-16					
	Harvest Date	25-5-17		12-6-17		9-6-17				13-5-17		26-4-17		9-6-17		NA		21-6-17		31-5-17		1-5-17					
	Irrigation Nos	9		15		6				5		NA		2		5		8		6		NA					
	Fertilizer Applied N	180		50		120				150		120		150		150		140		130		150					
	Fertilizer Applied P	60		24		60				75		60		70		75		60		75		75					
	Fertilizer Applied K	60		12		40				60		60		60		75		40		50		60					

TABLE NO. 3: (Contd.)

Sl	Entry Name	GRAIN YIELD (kg/Ha) at 15% MOISTURE																							
		4																5						All India	
		Coimbatore		Dharwad		Karimnagar		Kolhapur		Mandya		Rahuri		Vagarai		Zone		Banswara		Godhra		Zone		Mean	Rank
Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank
1	CP.808	10928	5	10034	1	6002	8	4959	9	8661	5	3925	7	8885	5	7628	5	10466	10	9525	1	9968	5	8662	4
2	DKC9177 (IP8572)	9847	9	9693	3	7734	5	7874	1	9631	1	4102	6	9762	1	8378	1	15799	1	7745	4	11789	1	9310	1
3	MM 2222	9505	12	6196	11	7477	6	7549	2	8002	10	3707	9	9749	2	7455	7	12356	7	5974	8	9171	7	8130	9
4	KMH-3981	12180	1	8214	5	7215	7	4625	12	8365	9	3613	11	7924	8	7448	8	12796	5	4731	12	8780	9	8345	7
5	115-08-01	11268	4	7564	6	7807	4	4929	10	9103	2	3848	8	7808	9	7475	6	9933	11	7671	5	8782	8	8189	8
6	DKC9170 (IQ8579)	10070	8	8928	4	7974	3	6618	4	8811	4	5075	2	9468	4	8135	3	14560	2	7640	6	11110	2	9222	2
7	DKC9175(IP8514)	11402	3	9901	2	8160	2	7319	3	8406	8	5653	1	7671	10	8359	2	12508	6	8348	2	10421	4	8903	3
8	PM15202L	9741	10	6251	10	4870	10	6425	5	7973	11	4720	3	8006	7	6855	11	12074	8	4755	11	8427	10	8022	10
9	P3522 (C)	11771	2	6682	9	8164	1	5822	8	8921	3	4301	4	9660	3	7903	4	13390	3	5838	9	9628	6	8651	5
10	Seedtech 2324 (C)	10682	6	6975	8	4764	11	5837	7	8526	6	3707	10	8195	6	6955	10	10707	9	5405	10	8056	11	7811	11
11	Buland (C)	9578	11	4102	12	3151	12	4925	11	7891	12	3254	12	6229	12	5590	12	9418	12	6292	7	7841	12	6877	12
12	Bio 9981 (C)	10546	7	7503	7	4994	9	5910	6	8484	7	4237	5	7664	11	7048	9	13380	4	8333	3	10855	3	8614	6
	General Mean	10627	.	7670	.	6526	.	6066	.	8564	.	4178	.	8419	.	7436	.	12282	.	6855	.	9569	.	8395	.
	CV(%)	9.09	.	12.34	.	13.99	.	18.89	.	7.37	.	17.57	.	7.91	.	11.76	.	6.26	.	5.71	.	6.84	.	9.7	.
	P-Value	0.03	.	0	.	0	.	0.02	.	0.09	.	0.03	.	0	.	0	.	0	.	0	.	0.41	.	0	.
	CD (5%)	1635.52	.	1602.91	.	1545.71	.	1940.47	.	1068.74	.	1243.17	.	1127.04	.	1050.71	.	1301.29	.	860.77	.	3703.42	.	887.85	.
	CD (1%)	2222.96	.	2178.63	.	2100.89	.	2637.43	.	1452.6	.	1689.69	.	1531.84	.	1395.85	.	1768.68	.	1214.62	.	5225.89	.	1171.82	.
	Plot Size	9.6		9.6		12		12		9.6		12		9.6				9.6		7.2					
	AGRONOMY DAT.																								
	Sowing Date	29-12-16		5-12-16		6-12-16		17-12-16		30-11-16		16-12-16		10-1-17				30-11-16		7-12-16					
	Harvest Date	3-5-17		2-5-17		19-4-17		11-5-17		2-5-17		2-5-17		5-5-17				12-5-17		22-4-17					
	Irrigation Nos	12		8		13		NA		12		7		12				6		8					
	Fertilizer Applied N	250		150		240		NA		150		120		250				200		120					
	Fertilizer Applied P	75		65		60		NA		75		60		75				80		60					
	Fertilizer Applied K	75		65		60		NA		40		40		75				0		0					

TABLE NO. 3 (Contd.)

SI	Entry Name	GRAIN YIELD % SUPERIORITY OVER P3522												
		2				3								
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean	
1	CP.808	41.6	0.5	-41.4	18.2	-17.3		13.6	-7.3	13.1	10.0	20.9	-10.0	-3.1
2	DKC9177 (IP8572)	3.5	5.0	-49.2	4.4	-36.4		-0.1	-3.5	-1.4	54.6	-16.8	6.5	5.1
3	MM 2222	20.1	13.2	-38.7	16.2	-47.4		-7.0	-29.6	-36.6	14.5	21.4	-0.6	-14.7
4	KMH-3981	7.0	9.6	-42.3	8.5	8.7		17.5	-33.0	5.3	-5.6	19.7	6.6	-3.2
5	115-08-01	27.4	-0.6	-24.8	11.5	-10.7		-9.2	-20.9	-7.0	12.1	-13.3	-22.0	-9.6
6	DKC9170 (IQ8579)	50.8	4.4	-41.5	24.4	-28.2		-6.8	1.2	-1.6	14.0	24.3	25.5	1.2
7	DKC9175(IP8514)	21.9	28.6	-22.1	25.7	-41.4		5.7	-4.7	9.7	-25.6	0.6	23.9	-10.8
8	PM15202L	47.1	12.3	-13.7	27.3	-22.6		3.3	-26.8	-3.3	-3.1	5.8	3.9	-10.5
9	P3522 (C)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	Seedtech 2324 (C)	8.7	-10.9	-45.0	-2.5	-6.9		4.6	-17.9	1.2	0.9	13.7	-11.6	-6.9
11	Buland (C)	27.6	-15.2	-55.8	3.3	-50.7		-5.8	-43.5	-10.0	16.6	60.0	-6.7	-19.0
12	Bio 9981 (C)	25.6	11.4	-27.1	17.5	-33.6		10.6	7.9	1.1	6.8	13.3	15.5	0.3

SI	Entry Name	GRAIN YIELD % SUPERIORITY OVER P3522												
		4							5				All India	
		Coimba	Dharwad	Karimnagar	Kolhapur	Mandya	Rahuri	Vagara	Zone Me	Banswar	Godhra	Zone Mea		
1	CP.808	-7.2	50.2	-26.5	-14.8	-2.9		-8.8	-8.0	-3.5	-21.8	63.2	3.5	0.1
2	DKC9177 (IP8572)	-16.4	45.1	-5.3	35.3	8.0		-4.6	1.1	6.0	18.0	32.7	22.5	7.6
3	MM 2222	-19.3	-7.3	-8.4	29.7	-10.3		-13.8	0.9	-5.7	-7.7	2.3	-4.7	-6.0
4	KMH-3981	3.5	22.9	-11.6	-20.6	-6.2		-16.0	-18.0	-5.8	-4.4	-19.0	-8.8	-3.5
5	115-08-01	-4.3	13.2	-4.4	-15.3	2.0		-10.5	-19.2	-5.4	-25.8	31.4	-8.8	-5.3
6	DKC9170 (IQ8579)	-14.5	33.6	-2.3	13.7	-1.2		18.0	-2.0	2.9	8.7	30.9	15.4	6.6
7	DKC9175(IP8514)	-3.1	48.2	-0.1	25.7	-5.8		31.4	-20.6	5.8	-6.6	43.0	8.2	2.9
8	PM15202L	-17.3	-6.4	-40.4	10.4	-10.6		9.7	-17.1	-13.3	-9.8	-18.6	-12.5	-7.3
9	P3522 (C)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	Seedtech 2324 (C)	-9.3	4.4	-41.7	0.3	-4.4		-13.8	-15.2	-12.0	-20.0	-7.4	-16.3	-9.7
11	Buland (C)	-18.6	-38.6	-61.4	-15.4	-11.5		-24.4	-35.5	-29.3	-29.7	7.8	-18.6	-20.5
12	Bio 9981 (C)	-10.4	12.3	-38.8	1.5	-4.9		-1.5	-20.7	-10.8	-0.1	42.8	12.7	-0.4

TABLE NO. 3 (Contd.)

SI	Entry Name	GRAIN YIELD % SUPERIORITY OVER Seedtech2324											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
1	CP.808	30.3	12.8	6.4	21.2	-11.2	8.6	13.0	11.8	9.0	6.3	1.8	4.0
2	DKC9177 (IP8572)	-4.7	17.8	-7.8	7.0	-31.7	-4.5	17.6	-2.5	53.3	-26.8	20.5	12.8
3	MM 2222	10.5	27.0	11.4	19.1	-43.5	-11.1	-14.2	-37.3	13.5	6.7	12.6	-8.5
4	KMH-3981	-1.6	23.0	4.8	11.2	16.7	12.3	-18.4	4.1	-6.4	5.2	20.7	4.0
5	115-08-01	17.3	11.5	36.6	14.3	-4.1	-13.2	-3.6	-8.1	11.2	-23.7	-11.8	-2.9
6	DKC9170 (IQ8579)	38.8	17.2	6.2	27.5	-22.9	-10.9	23.3	-2.7	13.1	9.3	42.0	8.6
7	DKC9175(IP8514)	12.2	44.2	41.5	28.8	-37.0	1.0	16.1	8.4	-26.2	-11.6	40.3	-4.2
8	PM15202L	35.3	26.0	56.7	30.5	-16.9	-1.3	-10.8	-4.5	-3.9	-7.0	17.6	-3.9
9	P3522 (C)	-8.0	12.2	81.7	2.5	7.4	-4.4	21.8	-1.2	-0.9	-12.1	13.2	7.4
10	Seedtech 2324 (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	Buland (C)	17.5	-4.9	-19.7	5.9	-47.1	-9.9	-31.1	-11.0	15.6	40.6	5.6	-13.1
12	Bio 9981 (C)	15.6	24.9	32.4	20.5	-28.7	5.7	31.5	-0.1	5.9	-0.3	30.7	7.7

SI	Entry Name	GRAIN YIELD % SUPERIORITY OVER Seedtech2324											
		4							5				
		Coimba	Dharwad	Karimnagar	Kolhapur	Mandya	Rahuri	Vagarai	Zone Me	Banswar	Godhra	Zone Mea	All India
1	CP.808	2.3	43.9	26.0	-15.0	1.6	5.9	8.4	9.7	-2.3	76.2	23.7	10.9
2	DKC9177 (IP8572)	-7.8	39.0	62.3	34.9	13.0	10.7	19.1	20.5	47.6	43.3	46.4	19.2
3	MM 2222	-11.0	-11.2	57.0	29.3	-6.2	0.0	19.0	7.2	15.4	10.5	13.9	4.1
4	KMH-3981	14.0	17.8	51.4	-20.8	-1.9	-2.5	-3.3	7.1	19.5	-12.5	9.0	6.8
5	115-08-01	5.5	8.4	63.9	-15.6	6.8	3.8	-4.7	7.5	-7.2	41.9	9.0	4.9
6	DKC9170 (IQ8579)	-5.7	28.0	67.4	13.4	3.3	36.9	15.5	17.0	36.0	41.3	37.9	18.1
7	DKC9175(IP8514)	6.7	42.0	71.3	25.4	-1.4	52.5	-6.4	20.2	16.8	54.5	29.4	14.0
8	PM15202L	-8.8	-10.4	2.2	10.1	-6.5	27.3	-2.3	-1.4	12.8	-12.0	4.6	2.7
9	P3522 (C)	10.2	-4.2	71.4	-0.3	4.6	16.0	17.9	13.6	25.1	8.0	19.5	10.8
10	Seedtech 2324 (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	Buland (C)	-10.3	-41.2	-33.9	-15.6	-7.4	-12.2	-24.0	-19.6	-12.0	16.4	-2.7	-12.0
12	Bio 9981 (C)	-1.3	7.6	4.8	1.3	-0.5	14.3	-6.5	1.3	25.0	54.2	34.8	10.3

TABLE NO. 3 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Buland											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
1	CP.808	10.9	18.5	32.5	14.5	67.7	20.6	64.0	25.6	-5.7	-24.4	-3.5	19.7
2	DKC9177 (IP8572)	-18.9	23.8	14.8	1.1	29.0	6.0	70.7	9.6	32.6	-48.0	14.2	29.8
3	MM 2222	-5.9	33.5	38.7	12.5	6.7	-1.3	24.5	-29.6	-1.9	-24.1	6.6	5.3
4	KMH-3981	-16.2	29.3	30.5	5.1	120.4	24.7	18.5	17.0	-19.1	-25.2	14.3	19.6
5	115-08-01	-0.2	17.2	70.0	7.9	81.2	-3.6	40.0	3.2	-3.8	-45.8	-16.4	11.7
6	DKC9170 (IQ8579)	18.1	23.2	32.3	20.5	45.7	-1.1	78.9	9.3	-2.2	-22.3	34.5	24.9
7	DKC9175(IP8514)	-4.5	51.6	76.2	21.7	18.9	12.1	68.5	21.8	-36.2	-37.1	32.9	10.2
8	PM15202L	15.2	32.4	95.1	23.3	57.0	9.6	29.5	7.4	-16.9	-33.9	11.4	10.6
9	P3522 (C)	-21.7	17.9	126.2	-3.2	102.8	6.1	76.8	11.1	-14.3	-37.5	7.2	23.5
10	Seedtech 2324 (C)	-14.9	5.1	24.5	-5.5	88.9	11.0	45.2	12.4	-13.5	-28.9	-5.3	15.1
11	Buland (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	Bio 9981 (C)	-1.6	31.3	64.8	13.8	34.6	17.4	90.8	12.3	-8.5	-29.1	23.8	23.9

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Buland											
		4								5		All India	
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Mandya	Rahuri	Vagarai	Zone Mean	Banswara	Godhra		Zone Mean
1	CP.808	14.1	144.6	90.5	0.7	9.8	20.6	42.6	36.5	11.1	51.4	27.1	25.9
2	DKC9177 (IP8572)	2.8	136.3	145.5	59.9	22.1	26.1	56.7	49.9	67.8	23.1	50.4	35.4
3	MM 2222	-0.8	51.1	137.3	53.3	1.4	13.9	56.5	33.4	31.2	-5.1	17.0	18.2
4	KMH-3981	27.2	100.3	129.0	-6.1	6.0	11.0	27.2	33.2	35.9	-24.8	12.0	21.3
5	115-08-01	17.7	84.4	147.8	0.1	15.4	18.3	25.3	33.7	5.5	21.9	12.0	19.1
6	DKC9170 (IQ8579)	5.1	117.7	153.1	34.4	11.7	56.0	52.0	45.5	54.6	21.4	41.7	34.1
7	DKC9175(IP8514)	19.1	141.4	159.0	48.6	6.5	73.7	23.2	49.5	32.8	32.7	32.9	29.5
8	PM15202L	1.7	52.4	54.6	30.4	1.0	45.1	28.5	22.6	28.2	-24.4	7.5	16.6
9	P3522 (C)	22.9	62.9	159.1	18.2	13.1	32.2	55.1	41.4	42.2	-7.2	22.8	25.8
10	Seedtech 2324 (C)	11.5	70.1	51.2	18.5	8.0	13.9	31.6	24.4	13.7	-14.1	2.7	13.6
11	Buland (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	Bio 9981 (C)	10.1	82.9	58.5	20.0	7.5	30.2	23.0	26.1	42.1	32.4	38.4	25.2

TABLE NO. 3 (Contd.)

Sl	Entry Name	MOISTURE % AT HARVEST											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	CP.808	26.6	13.6	23.1	21.1	26.8	19.8	24.4	18.7	26.7	33.1	33.0	35.2
2	DKC9177 (IP8572)	25.4	14.3	20.3	20.0	26.7	20.5	23.0	18.8	25.6	30.0	31.4	35.0
3	MM 2222	27.4	13.2	19.6	20.1	25.0	20.4	22.6	18.3	26.2	28.5	31.9	33.8
4	KMH-3981	26.6	13.7	23.8	21.4	27.8	19.6	21.5	18.2	24.2	32.2	33.4	34.5
5	115-08-01	26.5	13.6	26.9	22.3	24.8	19.5	23.4	18.7	24.8	24.8	35.0	34.4
6	DKC9170 (IQ8579)	26.7	13.6	26.9	22.4	26.1	19.3	23.3	18.6	26.2	32.2	31.2	33.6
7	DKC9175(IP8514)	28.5	13.9	26.0	22.8	27.7	18.8	24.2	19.1	27.0	25.7	31.9	34.5
8	PM15202L	26.5	13.7	21.5	20.6	26.1	20.0	14.0	19.1	26.0	28.2	28.7	32.1
9	P3522 (C)	27.3	14.2	22.2	21.2	26.9	19.0	22.0	18.5	26.5	29.9	30.5	34.2
10	Seedtech 2324 (C)	26.4	14.3	22.1	20.9	26.4	19.7	21.5	18.9	26.1	27.6	31.6	33.0
11	Buland (C)	26.5	13.2	20.3	20.0	23.2	19.9	20.3	18.7	25.2	30.1	30.5	31.8
12	Bio 9981 (C)	26.3	13.8	23.6	21.2	24.6	19.1	21.4	18.8	25.1	30.2	30.6	32.9
	General Mean	26.7	13.7	23.0	21.2	26.0	19.6	21.8	18.7	25.8	29.4	31.6	33.7
	CV(%)	3.7	2.8	2.8	3.6	3.0	1.2	9.6	7.8	5.3	1.2	2.6	4.4
	P-Value	0.1	0.2	0.0	0.3	0.0	0.0	0.0	0.1	0.7	0.0	0.0	0.0
	CD (5%)	1.7	0.9	1.4	2.5	1.7	0.5	4.6	2.4	3.0	2.0	1.8	2.1

TABLE NO. 3 (Contd.)

Sl	Entry Name	MOISTURE % AT HARVEST											
		4							5			All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Zone Mean	Banswara Mean	Godhra Zone Mean			
1	CP.808	16.5	25.8	13.0	22.8	11.7	15.2	7.3	16.5	14.5	17.4	11.4	23.7
2	DKC9177 (IP8572)	16.3	27.0	14.1	19.8	11.6	15.5	7.1	17.3	16.2	18.1	14.2	23.5
3	MM 2222	15.6	24.4	15.5	20.3	10.4	15.8	7.0	16.3	16.4	17.8	15.0	22.9
4	KMH-3981	15.5	24.2	14.4	18.5	11.5	15.3	7.1	16.9	16.4	17.6	15.1	23.3
5	115-08-01	15.7	25.2	18.2	18.9	11.6	16.5	7.2	15.7	17.1	17.1	17.2	23.7
6	DKC9170 (IQ8579)	15.1	22.4	12.1	18.7	11.2	14.6	7.6	16.3	16.9	17.4	16.5	23.1
7	DKC9175(IP8514)	14.8	21.8	14.7	19.4	10.3	14.5	7.1	15.7	15.4	17.7	13.0	23.2
8	PM15202L	15.7	22.0	18.3	21.5	10.4	15.6	7.6	17.1	17.0	17.6	16.5	22.5
9	P3522 (C)	15.2	22.8	12.5	20.6	10.5	13.6	8.0	15.9	17.0	17.5	16.5	23.2
10	Seedtech 2324 (C)	15.6	23.6	13.8	20.1	11.4	15.0	7.1	16.8	16.6	17.8	15.3	22.8
11	Buland (C)	15.6	23.4	15.8	21.3	10.4	15.6	7.1	15.9	16.1	17.3	15.0	22.2
12	Bio 9981 (C)	16.0	23.7	16.5	22.6	11.3	14.6	7.6	16.0	16.4	17.8	15.0	22.9
	General Mean	15.6	23.8	14.9	20.4	11.0	15.1	7.3	16.4	16.3	17.6	15.1	23.1
	CV(%)	6.5	4.5	20.6	8.5	6.2	3.7	6.3	2.1	3.5	3.4		4.9
	P-Value	0.2	0.0	0.6	0.1	0.3	0.0	0.2	0.0	0.7	0.9		0.1
	CD (5%)	1.1	2.3	6.8	2.9	1.5	1.2	0.8	0.8	2.7	1.3		1.0

TABLE NO. 3 (Contd.)

Sl	Entry Name	SHELLING %											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	CP.808	80.2	84.7	79.6	81.5	79.9	82.2	83.0	84.1	80.0	80.4	80.4	74.0
2	DKC9177 (IP8572)	82.0	77.7	76.4	78.7	74.6	80.5	79.0	81.7	80.0	82.7	82.7	71.3
3	MM 2222	77.5	85.6	75.8	79.7	77.7	79.4	78.0	85.5	80.0	76.5	76.5	71.4
4	KMH-3981	78.0	82.1	78.7	79.6	82.1	82.6	79.5	88.6	80.0	80.5	80.5	74.3
5	115-08-01	78.1	85.6	82.4	82.0	78.4	81.3	80.0	87.1	80.0	79.1	79.1	71.7
6	DKC9170 (IQ8579)	81.2	81.9	82.2	81.7	80.3	80.2	78.5	69.3	80.0	75.7	75.7	70.6
7	DKC9175(IP8514)	81.7	84.6	85.5	83.9	80.8	82.1	80.0	85.6	80.0	77.4	77.4	72.6
8	PM15202L	80.4	85.9	82.9	83.1	79.2	81.4	77.0	84.7	80.0	77.9	77.9	72.8
9	P3522 (C)	81.5	83.0	85.2	83.2	81.3	79.1	80.0	85.9	80.0	80.5	80.5	73.4
10	Seedtech 2324 (C)	76.4	80.3	81.0	79.2	80.1	79.9	80.0	84.2	80.0	72.7	72.6	72.3
11	Buland (C)	81.4	79.1	73.1	77.9	72.1	79.0	80.0	88.7	80.0	72.0	72.0	71.9
12	Bio 9981 (C)	80.1	82.3	77.4	80.0	76.0	81.1	79.5	85.4	80.0	76.4	76.4	72.2
	General Mean	79.9	82.7	80.0	80.9	78.5	80.7	79.5	84.2	80.0	77.6	77.6	72.4
	CV(%)	1.3	2.1	1.0	1.6	1.2	0.5	2.5	6.2	0.0	3.1	3.1	3.9
	P-Value	0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.3
	CD (5%)	1.7	3.0	1.8	4.5	2.1	0.9	4.3	11.5	0.0	5.3	5.3	2.8

TABLE NO. 3 (Contd.)

Sl	Entry Name	SHELLING %											
		4								5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	CP.808	72.9	78.9	84.2	74.0	71.4	82.0	50.7	79.3	78.7	79.0	78.4	75.4
2	DKC9177 (IP8572)	72.3	76.1	80.6	73.1	79.0	78.5	50.8	81.3	77.9	81.4	74.1	73.7
3	MM 2222	74.9	77.1	83.9	77.1	86.0	82.0	52.0	80.3	77.9	79.5	76.1	74.8
4	KMH-3981	74.3	77.5	83.1	77.0	82.4	80.0	54.3	79.0	80.5	81.6	79.0	75.9
5	115-08-01	74.5	77.9	84.5	75.0	84.1	81.5	54.1	78.0	77.8	79.2	76.1	75.2
6	DKC9170 (IQ8579)	74.4	78.3	81.2	76.6	80.3	81.0	55.3	80.0	81.8	81.2	82.1	75.0
7	DKC9175(IP8514)	75.6	79.0	85.3	79.2	80.4	83.0	54.8	79.1	79.6	80.0	78.9	76.4
8	PM15202L	76.8	79.6	85.9	81.5	88.7	82.5	54.7	78.7	80.2	80.3	79.9	76.8
9	P3522 (C)	76.4	81.5	83.2	80.5	82.8	83.5	54.7	80.8	80.4	81.2	79.4	76.9
10	Seedtech 2324 (C)	74.4	78.3	84.3	75.2	84.1	81.0	54.4	77.1	79.1	81.0	76.8	75.0
11	Buland (C)	70.8	75.4	80.1	72.1	75.5	77.5	50.9	76.5	78.7	78.4	78.8	73.3
12	Bio 9981 (C)	74.7	77.0	83.4	78.5	84.0	80.0	54.6	78.3	81.8	79.9	83.6	75.4
	General Mean	74.3	78.1	83.3	76.6	81.6	81.0	53.4	79.0	79.5	80.2	80.4	75.3
	CV(%)	2.2	1.1	1.1	2.6		1.2	4.1	0.9	0.8	0.8		2.8
	P-Value	0.0	0.0	0.0	0.0		0.0	0.1	0.0	0.5	0.0		0.0
	CD (5%)	1.9	1.9	1.9	3.3		2.1	3.7	1.5	4.3	1.4		1.5

TABLE NO. 3 (Contd.)

Sl	Entry Name	STAND AT HARVEST											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	CP.808	55.0	74.8	63.9	64.6	69.5	66.7	64.2	54.2	68.6	67.0	83.3	82.3
2	DKC9177 (IP8572)	55.0	76.7	56.4	62.7	66.8	64.2	61.1	49.7	64.7	66.1	81.3	80.6
3	MM 2222	48.3	77.4	59.4	61.7	70.4	68.1	63.9	60.6	69.2	66.1	82.6	81.6
4	KMH-3981	56.7	74.5	65.8	65.7	67.4	62.2	61.8	50.3	66.4	66.1	83.0	82.3
5	115-08-01	56.9	75.8	66.7	66.5	68.4	61.1	63.5	52.2	65.8	69.6	83.3	83.3
6	DKC9170 (IQ8579)	55.8	77.0	66.7	66.5	70.3	64.2	63.9	59.2	69.4	68.8	83.3	83.3
7	DKC9175(IP8514)	56.7	77.7	66.7	67.0	69.5	67.0	61.1	60.3	68.9	64.3	82.6	81.6
8	PM15202L	56.9	75.2	66.7	66.3	68.8	60.4	63.5	59.7	68.6	67.9	83.3	78.5
9	P3522 (C)	54.4	68.6	66.7	63.2	68.0	62.2	62.2	56.1	62.5	68.8	83.3	81.6
10	Seedtech 2324 (C)	59.2	73.3	60.3	64.2	69.5	65.6	65.6	52.8	73.3	67.0	83.3	78.8
11	Buland (C)	56.7	76.4	63.9	65.7	68.7	63.9	61.8	56.7	66.1	68.8	83.0	81.3
12	Bio 9981 (C)	65.0	74.8	65.0	68.3	69.5	67.7	60.4	57.2	70.0	69.6	81.3	80.2
	General Mean	56.4	75.2	64.0	65.2	68.9	64.4	62.8	55.7	67.8	67.5	82.8	81.3
	CV(%)	9.3	4.1	8.0	7.0	3.9	3.5	2.4	8.1	3.9	3.6	1.9	3.1
	P-Value	0.2	0.1	0.3	0.4	0.1	0.0	0.0	0.1	0.0	0.5	0.7	0.4
	CD (5%)	8.9	5.2	8.7	5.5	2.4	3.8	2.6	7.7	4.5	5.3	2.7	4.3

TABLE NO. 3 (Contd.)

Sl	Entry Name	STAND AT HARVEST											
		4								5		All India	
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Mandya	Rahuri	Vagarai	Zone Mean	Banswara	Godhra		Zone Mean
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean		
1	CP.808	61.9	66.3	64.9	61.4	60.6	62.2	54.7	62.9	74.8	70.5	81.3	66.5
2	DKC9177 (IP8572)	63.6	61.8	65.3	61.1	65.3	72.6	56.1	63.2	75.8	76.4	75.0	65.9
3	MM 2222	63.8	67.4	59.7	63.1	63.1	75.0	55.8	62.5	73.2	72.9	73.6	66.9
4	KMH-3981	64.0	66.7	70.5	60.8	59.7	71.2	58.6	60.4	70.6	71.9	68.8	66.3
5	115-08-01	62.7	66.0	67.0	60.6	60.0	70.5	54.7	60.4	69.7	70.8	68.1	66.2
6	DKC9170 (IQ8579)	62.5	66.7	67.0	58.3	63.6	64.9	53.6	63.5	81.5	80.2	83.3	68.0
7	DKC9175(IP8514)	62.0	65.3	65.6	55.0	64.4	69.8	54.2	59.7	85.6	87.2	83.3	68.0
8	PM15202L	62.0	65.6	64.9	52.5	61.9	73.3	55.0	60.4	80.0	79.2	81.3	67.1
9	P3522 (C)	63.8	64.9	70.8	61.1	62.2	68.1	56.7	62.9	78.0	78.1	77.8	66.8
10	Seedtech 2324 (C)	60.6	65.6	61.8	45.0	63.1	72.9	55.0	60.4	76.5	74.7	79.2	66.1
11	Buland (C)	60.5	64.2	61.5	53.1	62.5	69.1	54.7	58.7	77.4	75.7	79.9	66.1
12	Bio 9981 (C)	62.6	66.0	65.6	54.7	63.1	73.3	54.7	60.8	77.0	76.0	78.5	67.6
	General Mean	62.5	65.5	65.4	57.2	62.5	70.2	55.3	61.3	76.7	76.1	77.5	66.8
	CV(%)	5.0	3.1	9.5	3.5	1.4	5.4	3.5	2.3	7.9	9.9	4.9	5.5
	P-Value	0.4	0.2	0.6	0.0	0.0	0.0	0.2	0.0	0.1	0.4	0.0	0.4
	CD (5%)	3.2	3.5	10.6	3.4	1.5	6.5	3.2	2.3	8.5	12.7	8.4	2.0

TABLE NO. 3 (Contd.)

SI	Entry Name	DAYS TO 50% POLLEN SHED											
		2				3							
		Karnal Ludhiana Pantnagar Zone Mean				Bahraich Bhubaneshwar Dholi Kalyani Ranchi Sabour Varanasi Zone Mean							
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean		
1	CP.808	124.7	83.3	115.0	107.7	125.3	73.0	119.0	89.7	85.5	105.3	110.3	101.1
2	DKC9177 (IP8572)	127.3	80.3	111.7	106.4	120.7	73.0	117.0	90.0	80.0	106.7	110.3	99.7
3	MM 2222	127.0	82.0	113.3	107.4	121.7	74.0	119.0	90.0	84.0	106.7	112.7	101.1
4	KMH-3981	123.7	82.0	112.3	106.0	124.7	75.0	118.7	89.0	84.0	107.0	110.0	101.2
5	115-08-01	127.3	81.3	112.0	106.9	121.7	73.0	121.0	89.0	84.0	106.7	110.7	100.8
6	DKC9170 (IQ8579)	125.7	80.7	114.0	106.8	121.7	73.0	118.0	88.3	82.5	106.7	109.0	99.9
7	DKC9175(IP8514)	127.3	80.7	112.3	106.8	126.7	72.3	117.3	88.3	81.5	105.0	110.0	100.2
8	PM15202L	128.7	80.7	109.3	106.2	122.7	73.0	115.7	89.7	83.0	106.3	109.0	99.9
9	P3522 (C)	127.0	81.3	111.7	106.7	122.7	76.0	117.7	89.7	83.0	104.7	110.3	100.6
10	Seedtech 2324 (C)	125.7	82.0	112.3	106.7	121.7	72.0	114.3	88.3	79.5	106.3	109.3	98.8
11	Buland (C)	128.0	84.3	113.3	108.6	123.7	75.0	120.0	90.3	86.0	106.0	111.3	101.7
12	Bio 9981 (C)	126.0	79.0	109.3	104.8	120.7	75.0	115.7	89.3	78.5	107.3	108.7	99.4
	General Mean	126.5	81.5	112.2	106.7	122.8	73.7	117.8	89.3	82.6	106.2	110.1	100.4
	CV(%)	2.0	1.2	2.1	1.9	0.7	1.3	1.5	1.5	1.1	1.5	0.7	1.2
	P-Value	0.5	0.0	0.2	0.3	0.0	0.0	0.0	0.6	0.0	0.7	0.0	0.0
	CD (5%)	4.2	1.7	4.1	2.5	1.4	1.7	3.0	2.3	2.0	2.7	1.3	1.5

TABLE NO. 3 (Contd.)

Sl	Entry Name	DAYS TO 50% POLLEN SHED											
		4							5			All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean		Zone Mean
1	CP.808	59.7	75.7	74.0	76.0	71.7	75.3	54.3	69.5	88.0	88.0	88.0	89.1
2	DKC9177 (IP8572)	58.0	74.7	72.7	76.0	70.0	75.3	55.0	68.8	95.0	81.0	88.0	88.2
3	MM 2222	60.0	78.0	74.7	81.0	71.3	76.0	54.7	70.8	96.0	89.0	92.5	90.1
4	KMH-3981	62.7	76.3	73.7	82.0	72.3	76.0	55.7	71.2	95.3	91.0	93.2	90.1
5	115-08-01	57.7	74.0	77.3	81.0	71.0	75.0	55.3	70.2	93.7	84.0	88.9	89.3
6	DKC9170 (IQ8579)	57.0	74.0	72.7	81.0	70.0	76.0	54.0	69.2	95.0	89.0	92.0	88.8
7	DKC9175(IP8514)	57.0	75.7	74.3	82.0	70.7	76.0	55.3	70.1	95.0	89.0	92.0	89.3
8	PM15202L	57.0	76.0	73.0	81.0	70.0	76.0	54.0	69.6	94.0	89.0	91.5	88.8
9	P3522 (C)	57.3	74.0	72.7	82.0	70.3	76.3	57.3	70.0	95.0	91.0	93.0	89.5
10	Seedtech 2324 (C)	58.3	75.3	72.7	78.0	68.7	75.3	55.7	69.1	94.3	85.5	89.9	88.2
11	Buland (C)	60.7	80.7	78.7	82.0	73.0	75.0	57.3	72.5	95.3	87.0	91.2	90.9
12	Bio 9981 (C)	58.0	73.7	72.0	78.0	68.7	75.0	57.0	68.9	96.0	90.5	93.3	88.3
	General Mean	58.6	75.7	74.0	80.0	70.6	75.6	55.5	70.0	94.4	87.8	91.1	89.2
	CV(%)	1.4	1.7	1.6	1.9	1.2	1.3	1.5	1.6	1.0	0.3	0.9	1.5
	P-Value	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.4	0.0
	CD (5%)	1.4	2.2	2.0	2.5	1.4	1.7	1.4	1.5	1.7	0.7	5.4	1.0

TABLE NO. 3 (Contd.)

Sl	Entry Name	DAYS TO 50% SILK											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	CP.808	128.0	84.3	118.0	110.1	128.0	76.0	121.0	92.0	88.0	109.3	113.0	103.9
2	DKC9177 (IP8572)	130.7	81.3	115.3	109.1	123.0	76.0	119.0	92.7	85.0	111.0	113.7	102.9
3	MM 2222	130.0	82.0	116.3	109.4	124.0	77.0	121.7	92.7	86.0	110.7	114.7	103.8
4	KMH-3981	126.7	83.0	115.3	108.3	127.3	78.0	120.7	92.0	88.0	111.3	113.0	104.3
5	115-08-01	130.3	82.3	115.3	109.3	124.0	76.0	122.7	92.0	88.0	110.7	115.7	104.1
6	DKC9170 (IQ8579)	128.7	81.7	117.0	109.1	124.3	76.0	120.3	91.3	85.0	110.7	112.0	102.8
7	DKC9175(IP8514)	130.3	81.7	115.3	109.1	129.3	75.3	119.3	90.7	86.0	109.3	112.3	103.2
8	PM15202L	132.3	81.0	112.7	108.7	125.3	76.0	118.3	92.3	85.0	109.7	111.3	102.6
9	P3522 (C)	130.0	82.3	114.7	109.0	125.3	79.0	119.7	92.3	86.0	108.3	113.3	103.4
10	Seedtech 2324 (C)	128.7	83.0	115.3	109.0	124.0	75.0	116.3	91.0	84.5	110.3	111.3	101.8
11	Buland (C)	131.0	85.3	116.7	111.0	125.7	78.0	122.3	92.7	88.5	109.7	115.3	104.6
12	Bio 9981 (C)	129.7	80.3	113.0	107.7	122.7	78.0	117.7	92.0	85.0	111.0	111.7	102.6
	General Mean	129.7	82.4	115.4	109.2	125.3	76.7	119.9	92.0	86.3	110.2	113.1	103.3
	CV(%)	1.8	1.3	2.0	1.8	0.8	1.3	1.4	1.5	0.8	1.5	0.7	1.2
	P-Value	0.3	0.0	0.3	0.5	0.0	0.0	0.0	0.7	0.0	0.6	0.0	0.0
	CD (5%)	4.0	1.8	3.9	2.5	1.7	1.7	2.9	2.3	1.5	2.8	1.4	1.4

TABLE NO. 3 (Contd.)

Sl	Entry Name	DAYS TO 50% SILK											
		4							5				All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	CP.808	64.0	76.0	77.0	80.3	74.0	77.7	57.0	72.3	91.7	89.0	90.3	91.8
2	DKC9177 (IP8572)	63.0	76.0	75.3	78.0	71.3	78.0	58.0	71.4	98.7	83.0	90.9	91.0
3	MM 2222	64.0	78.3	76.7	83.0	73.7	78.0	57.0	73.0	99.3	90.5	94.9	92.4
4	KMH-3981	65.3	78.7	76.3	85.0	76.0	78.0	58.0	73.9	99.0	92.5	95.7	92.8
5	115-08-01	62.7	76.3	80.3	83.0	74.3	77.3	58.0	73.1	97.7	86.0	91.9	92.3
6	DKC9170 (IQ8579)	61.0	76.0	74.7	83.0	72.7	78.3	57.0	71.8	98.7	90.5	94.6	91.5
7	DKC9175(IP8514)	61.3	76.3	76.3	85.0	73.0	78.0	58.3	72.6	98.7	90.5	94.6	92.0
8	PM15202L	62.0	76.7	75.3	83.0	72.3	78.3	56.3	72.0	97.7	90.5	94.1	91.4
9	P3522 (C)	62.3	76.0	75.3	85.0	73.7	78.3	60.0	73.0	98.7	93.0	95.8	92.3
10	Seedtech 2324 (C)	63.3	77.3	74.7	80.0	73.0	77.3	58.7	72.1	98.0	87.0	92.5	91.0
11	Buland (C)	64.0	81.3	81.3	85.0	74.3	77.3	60.7	74.9	98.3	88.5	93.4	93.5
12	Bio 9981 (C)	62.0	76.3	75.0	80.0	73.0	77.3	60.3	72.0	99.0	92.0	95.5	91.4
	General Mean	62.9	77.1	76.5	82.5	73.4	77.8	58.3	72.7	97.9	89.4	93.7	91.9
	CV(%)	1.5	1.2	1.3	0.2	1.5	1.2	1.6	1.2	1.2	0.5	1.1	1.4
	P-Value	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.3	0.0
	CD (5%)	1.6	1.5	1.7	0.3	1.9	1.6	1.6	1.5	2.0	1.0	5.1	1.0

TABLE NO. 3 (Contd.)

Sl	Entry Name	DAYS TO 75% DRY HUSK										
		2			3							
		Karnal Ludhiana Zone Mean			Bahraich Bhubaneshwar Dholi		Kalyani Ranchi Sabour		Varanasi Zone Mean			
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
1	CP.808	171.3	118.3	144.8	155.7	119.0	151.7	124.0	125.5	148.0	145.3	138.4
2	DKC9177 (IP8572)	174.7	119.3	147.0	151.7	118.0	152.7	123.0	123.0	150.0	146.7	137.9
3	MM 2222	169.7	117.0	143.3	153.3	119.0	153.3	124.3	124.0	148.0	148.0	138.6
4	KMH-3981	168.0	118.0	143.0	154.7	120.0	153.0	125.3	125.5	150.0	145.7	139.2
5	115-08-01	168.7	122.0	145.3	157.7	122.0	152.3	127.7	126.0	147.3	149.0	140.3
6	DKC9170 (IQ8579)	171.3	119.3	145.3	155.0	119.0	152.3	131.7	123.0	144.3	137.0	137.5
7	DKC9175(IP8514)	170.0	120.3	145.2	157.0	118.7	152.3	125.0	124.5	146.0	137.3	137.2
8	PM15202L	170.7	119.3	145.0	153.7	119.0	151.0	126.0	122.5	147.7	143.3	137.6
9	P3522 (C)	172.3	119.3	145.8	156.7	120.0	153.0	127.0	123.5	145.3	147.0	139.0
10	Seedtech 2324 (C)	168.0	120.0	144.0	156.3	118.7	152.3	131.0	123.0	144.7	146.0	138.9
11	Buland (C)	170.3	119.7	145.0	151.7	118.3	151.7	127.3	127.0	146.7	146.7	138.4
12	Bio 9981 (C)	168.3	119.7	144.0	153.3	118.0	152.3	129.3	123.5	146.7	144.7	138.3
	General Mean	170.3	119.4	144.8	154.7	119.1	152.3	126.8	124.3	147.1	144.7	138.4
	CV(%)	2.1	1.0	1.8	0.7	0.8	0.6	3.4	0.7	1.7	4.7	2.4
	P-Value	0.5	0.0	0.6	0.0	0.0	0.3	0.3	0.0	0.2	0.5	0.5
	CD (5%)	6.0	2.0	3.8	1.9	1.5	1.7	7.2	1.8	4.3	11.4	2.4

TABLE NO. 3 (Contd.)

Sl	Entry Name	DAYS TO 75% DRY HUSK											
		4							5			All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Zone Mean	Banswara Mean	Godhra Zone Mean			
1	CP.808	104.7	115.0	117.0	117.3	110.7	120.0	96.3	111.6	129.7	126.5	128.0	127.5
2	DKC9177 (IP8572)	103.3	114.0	115.3	115.7	111.3	120.0	97.7	111.1	137.3	122.5	130.0	127.6
3	MM 2222	103.7	115.0	116.7	119.7	110.7	118.7	97.0	111.6	138.0	123.0	130.6	127.7
4	KMH-3981	104.7	115.3	116.3	121.0	113.0	118.0	98.0	112.3	135.7	125.0	130.3	128.2
5	115-08-01	103.0	116.0	120.3	119.7	114.0	118.3	97.3	112.7	134.7	125.0	129.8	128.9
6	DKC9170 (IQ8579)	101.7	113.0	114.7	120.0	114.0	119.0	96.0	111.2	137.0	128.0	132.5	127.5
7	DKC9175(IP8514)	102.0	114.7	116.3	121.0	116.3	118.3	98.3	112.4	136.0	123.0	129.5	127.6
8	PM15202L	102.7	114.7	115.3	120.0	112.3	118.7	96.7	111.5	134.7	124.5	129.6	127.4
9	P3522 (C)	102.0	113.3	115.3	121.0	111.3	119.0	100.0	111.7	137.0	125.0	131.0	128.2
10	Seedtech 2324 (C)	103.3	114.0	114.7	116.0	113.3	118.3	98.7	111.2	135.0	123.0	129.0	127.6
11	Buland (C)	104.3	116.3	121.3	119.7	111.3	118.7	101.0	113.2	136.7	119.0	127.9	128.2
12	Bio 9981 (C)	103.3	112.3	115.0	116.0	112.0	118.7	100.3	111.1	136.3	125.0	130.7	127.5
	General Mean	103.2	114.5	116.5	118.9	112.5	118.8	98.1	111.8	135.7	124.1	129.9	127.8
	CV(%)	0.9	1.6	0.8	0.6	1.2	0.9	1.2	1.0	1.0	1.5	1.1	1.9
	P-Value	0.0	0.3	0.0	0.0	0.0	0.5	0.0	0.1	0.0	0.0	0.9	0.4
	CD (5%)	1.5	3.0	1.7	1.2	2.2	1.8	2.0	1.6	2.2	4.0	5.7	1.3

TABLE NO. 3 (Contd.)

Sl	Entry Name	PLANT HEIGHT											
		2				3							
		Karnal Ludhiana Pantnagar Zone Mean				Bahraich Bhubaneshwar Dholi Kalyani Ranchi Sabour Varanasi Zone Mean							
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
1	CP.808	186.3	206.7	188.0	193.7	235.7	228.7	174.3	283.9	200.1	210.7	165.0	213.9
2	DKC9177 (IP8572)	199.3	228.3	189.7	205.8	263.2	213.3	223.7	309.7	219.7	217.7	208.3	236.5
3	MM 2222	189.7	226.7	233.0	216.4	241.8	207.3	218.3	306.6	209.4	245.3	185.0	230.6
4	KMH-3981	191.7	231.7	256.7	226.7	272.7	233.0	223.3	332.3	214.4	226.7	210.0	244.8
5	115-08-01	195.0	200.0	214.3	203.1	228.0	221.7	186.7	270.7	205.8	217.7	161.7	213.0
6	DKC9170 (IQ8579)	191.0	206.7	195.0	197.6	240.9	225.7	198.3	271.7	212.9	241.7	200.0	227.2
7	DKC9175(IP8514)	203.7	215.0	228.7	215.8	240.5	212.3	209.0	284.7	188.6	236.7	181.7	222.1
8	PM15202L	205.7	225.0	248.7	226.4	245.3	219.0	205.3	306.5	190.6	234.0	198.3	228.7
9	P3522 (C)	210.3	220.0	260.7	230.3	264.3	227.7	234.3	322.7	215.4	212.3	201.7	239.8
10	Seedtech 2324 (C)	174.0	180.0	202.0	185.3	203.2	217.0	183.3	272.9	173.5	237.7	158.3	206.8
11	Buland (C)	200.0	218.3	226.3	214.9	229.2	224.3	193.3	254.7	226.8	249.7	171.7	221.0
12	Bio 9981 (C)	197.7	220.0	231.0	216.2	241.8	225.3	215.7	292.3	195.7	232.7	181.7	226.6
	General Mean	195.4	214.9	222.8	211.0	242.2	221.3	205.5	292.4	204.4	230.2	185.3	225.9
	CV(%)	8.6	6.1	12.8	9.7	3.6	3.6	9.0	3.3	4.3	7.0	4.4	5.3
	P-Value	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
	CD (5%)	28.3	22.0	48.1	22.5	14.7	13.3	31.3	16.5	19.3	27.3	13.8	14.8

TABLE NO. 3 (Contd.)

Sl	Entry Name	PLANT HEIGHT											
		4							5			All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Zone Mean	Banswara Mean	Godhra Zone Mean			
1	CP.808	182.7	196.0	211.7	150.0	183.7	236.7	216.5	196.7	230.0	208.3	216.8	204.7
2	DKC9177 (IP8572)	195.5	200.3	255.0	196.7	209.3	230.0	227.9	216.4	253.3	198.3	226.8	223.1
3	MM 2222	199.5	227.9	243.7	168.3	217.3	253.3	220.0	218.6	243.3	208.3	224.8	223.4
4	KMH-3981	201.5	226.3	266.0	183.3	240.7	261.0	240.5	231.3	281.7	201.7	245.1	236.9
5	115-08-01	177.4	216.7	212.7	160.0	199.0	235.0	209.1	201.4	251.7	203.3	227.8	208.5
6	DKC9170 (IQ8579)	185.6	240.3	246.0	166.7	210.0	265.0	224.4	219.7	276.7	208.3	244.8	221.3
7	DKC9175(IP8514)	174.1	230.0	228.7	168.3	215.3	258.3	210.3	212.1	223.3	188.3	204.8	215.9
8	PM15202L	187.6	219.7	244.0	170.0	219.3	251.0	218.9	215.8	246.7	205.0	225.4	223.4
9	P3522 (C)	197.8	229.0	266.0	180.0	234.7	248.3	247.7	229.1	243.3	206.7	224.1	232.9
10	Seedtech 2324 (C)	167.0	228.3	199.7	146.7	177.3	231.7	199.0	192.8	240.0	198.3	218.8	199.4
11	Buland (C)	199.4	239.0	233.3	190.0	213.0	233.3	249.1	222.5	265.0	200.0	234.4	221.8
12	Bio 9981 (C)	187.4	206.7	229.7	161.7	223.0	251.7	230.8	213.0	240.0	208.3	222.8	219.7
	General Mean	188.0	221.7	236.4	170.1	211.9	246.3	224.5	214.1	249.6	202.9	226.3	219.3
	CV(%)	2.8	8.4	6.1	9.3	6.9	4.6	3.3	6.2	12.1	4.6	10.2	7.1
	P-Value	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.4	0.0
	CD (5%)	8.9	31.5	24.6	26.7	24.7	19.3	12.6	11.9	51.2	20.3	32.1	8.1

TABLE NO. 3 (Contd.)

Sl	Entry Name	EAR HEIGHT											
		2				3							
		Karnal Ludhiana Pantnagar Zone Mean				Bahraich Bhubaneshwar Dholi Kalyani Ranchi Sabour Varanasi Zone Mean							
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean		
1	CP.808	97.0	108.3	69.0	91.4	101.9	102.0	111.3	78.3	131.2	94.8	109.3	86.7
2	DKC9177 (IP8572)	113.0	120.0	84.7	105.9	115.4	134.8	97.7	113.3	151.6	100.5	104.7	105.0
3	MM 2222	105.0	115.0	85.0	101.7	111.9	124.9	97.7	102.3	143.7	97.2	121.7	95.0
4	KMH-3981	94.0	116.7	113.0	107.9	115.6	115.8	113.7	109.7	147.4	105.5	107.3	110.0
5	115-08-01	94.0	115.3	83.7	97.7	98.2	96.4	109.3	78.0	125.8	100.7	105.7	73.3
6	DKC9170 (IQ8579)	97.0	116.7	79.3	97.7	114.1	119.0	109.3	125.0	131.0	103.8	114.0	96.7
7	DKC9175(IP8514)	102.7	103.3	89.0	98.3	102.8	103.8	97.0	102.0	121.7	90.4	114.7	90.0
8	PM15202L	112.0	116.7	98.7	109.1	108.9	125.9	101.3	103.0	130.7	88.3	108.7	103.3
9	P3522 (C)	116.0	123.3	124.3	121.2	125.3	138.3	113.3	129.3	166.0	111.5	103.3	115.0
10	Seedtech 2324 (C)	85.0	111.7	92.7	96.4	113.4	134.1	109.3	104.0	145.0	88.2	114.3	96.7
11	Buland (C)	109.3	128.3	86.3	108.0	116.1	124.3	113.3	90.7	152.4	122.9	119.3	91.7
12	Bio 9981 (C)	101.7	123.3	107.0	110.7	112.9	118.6	105.7	122.7	129.7	102.3	114.3	96.7
	General Mean	102.2	116.6	92.7	103.8	111.4	119.8	106.6	104.9	139.7	100.5	111.4	96.7
	CV(%)	15.5	8.8	19.2	14.4	8.0	11.2	5.1	4.2	8.5	4.1	8.3	7.4
	P-Value	0.5	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
	CD (5%)	26.8	17.3	30.2	15.8	10.3	22.7	9.1	7.4	20.1	9.1	15.6	12.0

TABLE NO. 3 (Contd.)

Sl	Entry Name	EAR HEIGHT											
		4								5		All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean		
1	CP.808	100.0	93.0	108.7	98.3	80.0	104.7	112.7	102.6	120.7	120.0	121.7	101.4
2	DKC9177 (IP8572)	108.4	94.0	109.3	118.7	110.0	115.0	107.3	104.4	118.0	120.0	115.0	111.6
3	MM 2222	110.0	95.8	125.3	121.0	85.0	116.7	119.3	107.0	123.3	120.0	128.2	110.8
4	KMH-3981	114.9	107.3	123.0	126.0	86.7	127.7	116.3	117.0	120.7	123.3	116.7	114.7
5	115-08-01	107.3	90.7	126.0	109.0	78.3	118.0	124.0	104.7	126.3	118.3	138.3	104.4
6	DKC9170 (IQ8579)	109.1	96.9	116.0	124.3	81.7	118.7	119.7	106.7	128.2	127.0	130.0	111.1
7	DKC9175(IP8514)	98.5	85.6	118.7	106.0	81.7	105.3	101.3	90.8	110.7	106.7	116.7	101.4
8	PM15202L	103.8	85.3	119.7	118.7	81.7	113.7	118.0	89.7	127.7	125.0	131.7	109.1
9	P3522 (C)	116.6	99.2	116.0	129.7	98.3	137.0	116.7	119.0	113.0	108.3	120.0	120.4
10	Seedtech 2324 (C)	109.1	90.4	128.0	111.7	91.7	111.0	119.0	111.8	117.7	125.0	106.7	109.5
11	Buland (C)	125.7	108.5	130.8	131.7	106.7	139.7	119.7	142.6	120.0	121.7	117.5	118.8
12	Bio 9981 (C)	106.8	97.2	118.3	114.7	73.3	119.0	116.0	109.4	125.3	126.7	123.3	111.6
	General Mean	109.2	95.3	120.0	117.5	87.9	118.9	115.8	108.8	121.0	120.2	122.1	110.4
	CV(%)	8.5	6.6	11.1	6.6	16.5	7.0	4.4	3.9	9.4	8.9	10.9	9.5
	P-Value	0.0	0.0	0.6	0.0	0.1	0.0	0.0	0.0	0.4	0.4	0.6	0.0
	CD (5%)	7.6	10.7	22.6	13.1	24.5	14.1	8.6	7.1	15.7	18.2	29.3	5.7

TABLE NO. 4: PERFORMANCE OF EXPERIMENTAL HYBRIDS/SINGLE CROSS/TOP CROSS & COMPOSITES AT KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, BHUBANESHWAR, DHOLI, KALYANI, RANCHI, SABOUR, VARANASI, COIMBATORE, DHARWAD, KARIMNAGAR, KOLHAPUR, MANDYA, RAHURI, VAGARAI, BANSWARA & GODHRA IN TR.5 DURING RABI (2016-17)

Sl	Entry Name	GRAIN YIELD (kg/Ha) at 15% MOISTURE																							
		2												3											
		Karnal		Ludhiana		Pantnagar		Zone		Bahraich		Bhubaneshwar		Dholi		Kalyani		Ranchi		Sabour		Varanasi		Zone	
Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank		
1	HT 15066	7633	7	9455	4	13106	4	10065	4	5536	6	6807	3	7120	5	11535	3	14158	3	1119	6	11973	2	9119	4
2	DKC8171(IP8204)	10598	1	10494	1	15767	2	12286	1	9744	1	7418	2	9434	3	10933	4	15782	1	825	7	11354	3	10746	2
3	BLH 109	9847	2	10183	2	16200	1	12077	2	9490	2	7432	1	9678	1	13123	2	14003	4	1731	1	13739	1	10868	1
4	HM 10 (C)	8909	4	5215	7	3355	7	5826	7	6863	4	6687	4	4847	7	13199	1	11043	7	1477	3	7095	7	7307	7
5	DHM 117 (C)	7848	6	6860	6	10287	5	8332	6	5339	7	6344	7	5058	6	10431	5	11847	6	1450	4	8021	6	7322	6
6	Bio 9544(C)	8793	5	10041	3	14459	3	11098	3	6529	5	6408	6	9513	2	9425	7	14465	2	1541	2	11095	4	9602	3
7	Bio 9637(C)	9395	3	7207	5	9704	6	8769	5	8434	3	6436	5	7744	4	9966	6	12396	5	1161	5	9791	5	8960	5
	General Mean	9003	.	8493	.	11840	.	9779	.	7419	.	6790	.	7628	.	11230	.	13385	.	1329	.	10438	.	9132	.
	CV(%)	4	.	11	.	10	.	9	.	6	.	3	.	6	.	21	.	5	.	24	.	7	.	6	.
	P-Value	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.
	CD (5%)	648	.	1633	.	2210	.	3891	.	844	.	336	.	797	.	4176	.	1266	.	557	.	1240	.	1528	.
	Plot Size	12		10.6		12				9.6		9.6		4		12		5.6		9.6		9.6			
	AGRONOMY DATA																								
	Sowing Date	29-11-16		2-2-17		20-12-16				4-12-16		6-12-16		30-11-16		14-12-16		3-2-17		08-12-16		2-12-16			
	Harvest Date	24-5-17		12-6-17		31-5-17				11-5-17		24-4-17		9-6-17		NA		29-6-17		25-5-17		28-4-17			
	Irrigation Nos	8		15		6				5		NA		2		5		8		6		NA			
	Fertilizer Applied N	180		50		120				150		120		150		150		140		130		150			
	Fertilizer Applied P	60		24		60				75		60		70		75		60		75		75			
	Fertilizer Applied K	60		12		40				60		60		60		75		40		50		60			

TABLE NO. 4: Contd.

Sl	Entry Name	GRAIN YIELD (kg/Ha) at 15% MOISTURE																							
		4																5						All India	
		Coimbatore		Dharwad		Karimnagar		Kolhapur		Mandya		Rahuri		Vagarai		Zone		Banswara		Godhra		Zone		All India	
Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank		
1	HT 15066	9954	4	6324	4	9288	2	5704	5	9806	1	10273	1	7897	4	8162	4	10882	4	4891	2	7886	4	8783	4
2	DKC8171(IP8204)	12729	1	6373	2	7863	3	6759	3	9370	4	5360	2	7849	5	8491	2	13006	3	4111	4	8559	3	9916	6
3	BLH 109	10561	2	6372	3	7501	5	7403	1	9554	3	3874	6	9214	2	8434	3	15671	1	4206	3	9939	1	10066	1
4	HM 10 (C)	8368	6	3852	6	4644	7	2088	7	7688	7	3557	7	6910	7	5592	7	7998	7	3665	6	5831	7	6202	7
5	DHM 117 (C)	7489	7	3782	7	7501	4	5103	6	7846	6	4656	3	8399	3	6687	6	10313	6	3736	5	7024	6	7236	2
6	Bio 9544(C)	10224	3	6469	1	9571	1	7220	2	8359	5	4021	5	9712	1	8592	1	14376	2	5127	1	9752	2	9523	3
7	Bio 9637(C)	9634	5	4899	5	6736	6	6336	4	9715	2	4626	4	7032	6	7392	5	10722	5	3630	7	7176	5	8113	5
	General Mean	9851	.	5438	.	7587	.	5802	.	8905	.	5195	.	8145	.	7621	.	11853	.	4195	.	8024	.	8548	.
	CV(%)	11	.	18	.	12	.	14	.	8	.	71	.	8	.	11	.	6	.	8	.	7	.	9	.
	P-Value	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.
	CD (5%)	1910	.	1755	.	1655	.	1413	.	1188	.	6571	.	1154	.	1132	.	1332	.	631	.	4112	.	952	.
	Plot Size	9.6		9.6		12		12		9.6		12		9.6				9.6		7.2					
	AGRONOMY DATA																								
	Sowing Date	29-12-16		5-12-16		1-12-16		19-12-16		30-11-16		16-12-16		10-1-17				30-11-16		7-12-16					
	Harvest Date	24-4-17		26-4-17		11-4-17		NA		5-5-17		3-5-17		2-5-17				12-5-17		22-4-17					
	Irrigation Nos	11		8		11		NA		12		7		11				6		7					
	Fertilizer Applied N	250		150		240		NA		150		120		250				200		120					
	Fertilizer Applied P	75		65		60		NA		75		60		75				80		60					
	Fertilizer Applied K	75		65		60		NA		40		40		75				0		0					

TABLE NO. 4 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER HM 10											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
1	HT 15066	-14.3	81.3	290.6	72.8	-19.3	1.8	46.9	-12.6	28.2	-24.2	68.8	46.0
2	DKC8171(IP8204)	19.0	101.2	369.9	110.9	42.0	10.9	94.6	-17.2	42.9	-44.2	60.0	51.8
3	BLH 109	10.5	95.3	382.8	107.3	38.3	11.2	99.7	-0.6	26.8	17.2	93.7	50.8
4	HM 10 (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	DHM 117 (C)	-11.9	31.5	206.6	43.0	-22.2	-5.1	4.4	-21.0	7.3	-1.8	13.1	19.6
6	Bio 9544(C)	-1.3	92.5	330.9	90.5	-4.9	-4.2	96.3	-28.6	31.0	4.4	56.4	53.7
7	Bio 9637(C)	5.5	38.2	189.2	50.5	22.9	-3.8	59.8	-24.5	12.3	-21.4	38.0	32.2

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER HM 10											
		4								5			All India
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Mandya	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	
1	HT 15066	19.0	64.2	100.0	173.2	27.6	188.8	14.3	24.8	36.1	33.5	35.2	41.6
2	DKC8171(IP8204)	52.1	65.5	69.3	223.7	21.9	50.7	13.6	47.1	62.6	12.2	46.8	59.9
3	BLH 109	26.2	65.4	61.5	254.5	24.3	8.9	33.4	48.7	96.0	14.8	70.4	62.3
4	HM 10 (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	DHM 117 (C)	-10.5	-1.8	61.5	144.4	2.1	30.9	21.6	0.2	28.9	1.9	20.5	16.7
6	Bio 9544(C)	22.2	67.9	106.1	245.8	8.7	13.1	40.6	31.4	79.8	39.9	67.2	53.6
7	Bio 9637(C)	15.1	27.2	45.0	203.4	26.4	30.1	1.8	22.6	34.1	-1.0	23.1	30.8

TABLE NO. 4 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER DHM 117											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
1	HT 15066	-2.7	37.8	27.4	20.8	3.7	7.3	40.8	10.6	19.5	-22.9	49.3	24.5
2	DKC8171(IP8204)	35.1	53.0	53.3	47.5	82.5	16.9	86.5	4.8	33.2	-43.1	41.6	46.8
3	BLH 109	25.5	48.4	57.5	45.0	77.8	17.2	91.3	25.8	18.2	19.4	71.3	48.4
4	HM 10 (C)	13.5	-24.0	-67.4	-30.1	28.6	5.4	-4.2	26.5	-6.8	1.8	-11.6	-0.2
5	DHM 117 (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	Bio 9544(C)	12.1	46.4	40.6	33.2	22.3	1.0	88.1	-9.7	22.1	6.3	38.3	31.1
7	Bio 9637(C)	19.7	5.1	-5.7	5.3	58.0	1.5	53.1	-4.5	4.6	-19.9	22.1	22.4

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER DHM 117											
		4							5				All India
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Mandya	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	
1	HT 15066	32.9	67.2	23.8	11.8	25.0	120.6	-6.0	22.1	5.5	30.9	12.3	21.4
2	DKC8171(IP8204)	70.0	68.5	4.8	32.5	19.4	15.1	-6.6	27.0	26.1	10.0	21.9	37.0
3	BLH 109	41.0	68.5	0.0	45.1	21.8	-16.8	9.7	26.1	52.0	12.6	41.5	39.1
4	HM 10 (C)	11.7	1.9	-38.1	-59.1	-2.0	-23.6	-17.7	-16.4	-22.5	-1.9	-17.0	-14.3
5	DHM 117 (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	Bio 9544(C)	36.5	71.0	27.6	41.5	6.5	-13.6	15.6	28.5	39.4	37.2	38.8	31.6
7	Bio 9637(C)	28.6	29.5	-10.2	24.2	23.8	-0.7	-16.3	10.6	4.0	-2.8	2.2	12.1

TABLE NO. 4 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER BIO 9544											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
1	HT 15066	-13.2	-5.8	-9.4	-9.3	-15.2	6.2	-25.2	22.4	-2.1	-27.4	7.9	-5.0
2	DKC8171(IP8204)	20.5	4.5	9.1	10.7	49.3	15.8	-0.8	16.0	9.1	-46.5	2.3	11.9
3	BLH 109	12.0	1.4	12.1	8.8	45.4	16.0	1.7	39.2	-3.2	12.3	23.8	13.2
4	HM 10 (C)	1.3	-48.1	-76.8	-47.5	5.1	4.4	-49.1	40.1	-23.7	-4.2	-36.1	-23.9
5	DHM 117 (C)	-10.8	-31.7	-28.9	-24.9	-18.2	-1.0	-46.8	10.7	-18.1	-5.9	-27.7	-23.8
6	Bio 9544(C)	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	Bio 9637(C)	6.8	-28.2	-32.9	-21.0	29.2	0.4	-18.6	5.7	-14.3	-24.6	-11.8	-6.7

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER BIO 9544											
		4							5				All India
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Mandya	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	
1	HT 15066	-2.6	-2.2	-3.0	-21.0	17.3	155.5	-18.7	-5.0	-24.3	-4.6	-19.1	-7.8
2	DKC8171(IP8204)	24.5	-1.5	-17.9	-6.4	12.1	33.3	-19.2	-1.2	-9.5	-19.8	-12.2	4.1
3	BLH 109	3.3	-1.5	-21.6	2.5	14.3	-3.7	-5.1	-1.8	9.0	-18.0	1.9	5.7
4	HM 10 (C)	-18.2	-40.5	-51.5	-71.1	-8.0	-11.5	-28.9	-34.9	-44.4	-28.5	-40.2	-34.9
5	DHM 117 (C)	-26.8	-41.5	-21.6	-29.3	-6.1	15.8	-13.5	-22.2	-28.3	-27.1	-28.0	-24.0
6	Bio 9544(C)	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	Bio 9637(C)	-5.8	-24.3	-29.6	-12.3	16.2	15.0	-27.6	-14.0	-25.4	-29.2	-26.4	-14.8

TABLE NO. 4 (Contd.)

Sl	Entry Name	MOISTURE % AT HARVEST											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	HT 15066	27.1	14.0	26.0	22.4	23.6	19.4	24.2	19.2	25.0	28.7	29.8	31.3
2	DKC8171(IP8204)	27.8	15.4	27.1	23.4	27.1	19.7	20.7	19.2	25.5	26.6	29.5	31.7
3	BLH 109	26.7	14.4	26.8	22.6	27.4	19.9	22.8	19.2	25.7	31.2	29.3	30.9
4	HM 10 (C)	27.2	13.4	26.4	22.3	24.6	20.2	21.2	20.4	25.1	30.9	27.8	31.2
5	DHM 117 (C)	26.3	14.1	27.1	22.5	21.8	19.4	22.7	18.8	25.0	31.4	33.0	31.8
6	Bio 9544(C)	29.1	15.7	26.2	23.7	24.5	20.0	23.4	18.8	25.6	32.4	31.5	31.5
7	Bio 9637(C)	25.9	15.2	27.7	22.9	26.2	20.1	22.6	18.3	26.0	29.8	31.3	31.6
	General Mean	27.2	14.6	26.7	22.8	25.0	19.8	22.5	19.1	25.4	30.1	30.3	31.4
	CV(%)	2.1	2.7	1.0	2.1	.	1.3	4.1	3.6	5.2	7.4	2.7	4.8
	P-Value	0.0	0.0	0.0	0.3	.	0.1	0.1	0.1	1.0	0.1	0.0	0.9
	CD (5%)	1.0	1.0	0.7	1.5	.	0.7	2.2	1.2	3.2	4.0	2.0	1.7

Sl	Entry Name	MOISTURE % AT HARVEST											
		4							5				All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	HT 15066	24.5	14.5	17.7	11.9	16.0	7.2	16.3	15.4	17.0	15.6	16.3	22.5
2	DKC8171(IP8204)	23.2	15.7	17.7	11.7	15.0	7.3	15.9	15.2	17.0	15.6	16.3	22.7
3	BLH 109	22.4	13.3	15.6	10.1	15.5	6.5	16.1	14.1	17.1	17.9	17.5	22.0
4	HM 10 (C)	21.0	13.4	15.8	10.5	14.9	7.0	16.7	14.1	16.9	14.2	15.6	21.9
5	DHM 117 (C)	24.4	12.3	18.0	11.8	15.3	6.9	16.1	15.0	16.8	16.8	16.8	22.5
6	Bio 9544(C)	25.9	14.9	17.8	11.2	14.3	7.4	16.0	15.3	16.9	17.0	16.9	22.8
7	Bio 9637(C)	25.7	16.1	17.8	11.0	14.5	6.7	15.8	15.3	16.5	17.4	17.0	22.7
	General Mean	23.9	14.3	17.2	11.2	15.0	7.0	16.1	14.9	16.9	16.3	16.6	22.4
	CV(%)	5.0	17.7	7.5	9.0	4.2	6.0	2.7	8.2	3.1	2.4	2.8	5.3
	P-Value	0.1	0.7	0.2	0.5	0.3	0.2	0.6	0.0	0.9	0.0	0.6	0.1
	CD (5%)	2.9	6.2	2.3	2.5	1.5	0.7	1.1	0.9	1.3	0.9	2.3	0.7

TABLE NO. 4 (Contd.)

Sl	Entry Name	SHELLING %											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	HT 15066	81.4	83.7	82.0	82.4	72.7	80.7	82.0	83.9	80.0	77.2	72.4	71.6
2	DKC8171(IP8204)	82.3	83.9	87.0	84.4	80.2	81.4	80.0	80.5	80.0	80.6	76.5	72.0
3	BLH 109	80.8	86.1	85.7	84.2	79.8	82.3	79.0	85.6	80.0	73.6	80.3	73.9
4	HM 10 (C)	82.7	78.7	77.4	79.6	77.1	79.4	80.0	86.8	80.0	78.6	70.0	72.0
5	DHM 117 (C)	82.3	78.8	82.3	81.1	73.3	78.6	80.0	88.1	80.0	80.4	71.1	71.9
6	Bio 9544(C)	81.8	85.9	87.5	85.0	74.8	81.7	80.0	82.2	80.0	76.8	74.3	72.3
7	Bio 9637(C)	81.1	85.4	83.0	83.2	77.5	81.2	80.5	87.0	80.0	77.4	72.3	72.6
	General Mean	81.8	83.2	83.6	82.8	76.5	80.7	80.2	84.9	80.0	77.8	73.8	72.3
	CV(%)	1.0	2.7	1.0	1.9	.	0.4	1.5	4.4	0.0	3.3	1.0	2.5
	P-Value	0.1	0.0	0.0	0.2	.	0.0	0.4	0.5	.	0.1	0.0	0.5
	CD (5%)	1.4	4.1	2.1	4.3	.	0.9	2.9	9.2	0.0	4.6	1.7	2.4

Sl	Entry Name	SHELLING %											
		4							5				All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	HT 15066	76.8	80.1	78.0	83.6	81.0	129.4	79.5	79.7	80.8	74.9	77.8	76.8
2	DKC8171(IP8204)	81.1	84.0	80.7	81.5	84.0	53.4	79.0	81.9	81.0	80.6	80.8	78.3
3	BLH 109	80.9	86.7	82.2	86.9	82.0	52.1	81.2	83.2	80.9	79.1	80.0	79.4
4	HM 10 (C)	76.6	79.7	78.4	80.0	81.3	51.3	78.4	79.2	80.0	81.7	80.8	76.6
5	DHM 117 (C)	74.5	79.0	76.4	80.8	78.8	52.7	78.2	77.9	80.5	82.4	81.5	76.5
6	Bio 9544(C)	78.3	82.3	79.2	86.1	82.5	52.3	80.6	81.3	80.0	78.8	79.4	78.3
7	Bio 9637(C)	79.0	79.3	77.2	83.1	81.0	54.3	78.1	79.5	78.9	76.9	77.9	77.3
	General Mean	78.2	81.6	78.9	83.1	81.5	63.6	79.3	80.4	80.3	79.2	79.7	77.6
	CV(%)	1.4	1.8	2.6	.	0.9	76.2	0.9	1.9	1.5	1.7	1.6	2.1
	P-Value	0.0	0.0	0.1	.	0.0	0.4	0.0	0.0	0.6	0.0	0.4	0.0
	CD (5%)	2.7	3.6	3.7	.	1.9	86.3	1.7	1.4	3.0	3.2	4.5	1.4

TABLE NO. 4 (Contd.)

Sl	Entry Name	STAND AT HARVEST											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	hubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	HT 15066	59.7	74.5	60.8	65.0	67.0	60.8	44.4	62.5	67.9	60.8	84.0	63.9
2	DKC8171(IP8204)	60.3	75.2	65.0	66.8	61.8	64.6	55.0	66.4	70.2	77.1	81.3	68.1
3	BLH 109	56.9	78.3	64.2	66.5	58.7	62.9	60.0	71.9	66.7	80.9	84.4	69.4
4	HM 10 (C)	53.3	39.3	34.2	42.3	65.3	63.2	22.8	68.9	68.5	82.6	46.5	59.7
5	DHM 117 (C)	60.8	74.8	61.7	65.8	63.5	61.5	35.6	56.7	70.2	83.3	80.9	64.5
6	Bio 9544(C)	59.7	73.6	64.7	66.0	63.2	64.2	57.2	64.4	67.9	80.6	83.3	68.7
7	Bio 9637(C)	61.7	59.8	56.1	59.2	64.6	62.2	50.3	68.6	67.3	69.8	81.6	66.3
	General Mean	58.9	67.9	58.1	61.7	63.4	62.8	46.5	65.6	68.4	76.4	77.4	65.8
	CV(%)	4.5	5.6	6.7	5.7	3.2	2.6	10.4	8.9	3.4	16.4	4.4	8.9
	P-Value	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.4	0.3	0.0	0.3
	CD (5%)	4.7	6.8	6.9	11.6	3.6	3.0	8.6	10.4	4.2	22.3	6.1	8.8

Sl	Entry Name	STAND AT HARVEST											
		4							5				All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	HT 15066	66.0	59.0	59.7	62.5	72.2	57.8	61.5	62.7	77.4	75.9	76.7	65.0
2	DKC8171(IP8204)	65.6	66.0	60.8	65.3	69.4	58.6	60.8	63.8	72.9	67.1	70.0	66.5
3	BLH 109	66.0	63.2	60.8	65.0	76.0	57.5	63.5	64.6	73.6	68.1	70.8	67.3
4	HM 10 (C)	66.3	40.6	42.8	63.1	67.4	58.3	59.4	56.8	74.0	48.6	61.3	56.1
5	DHM 117 (C)	66.3	55.9	62.8	61.9	71.2	59.7	59.0	62.4	80.6	60.7	70.6	64.6
6	Bio 9544(C)	66.0	66.0	58.3	64.4	71.9	58.6	64.2	64.2	83.7	74.1	78.9	67.7
7	Bio 9637(C)	65.6	60.4	50.0	63.9	67.4	59.4	58.7	60.8	76.7	51.9	64.3	62.9
	General Mean	66.0	58.7	56.5	63.7	70.8	58.6	61.0	62.2	77.0	63.8	70.4	64.3
	CV(%)	1.2	8.1	4.0	1.9	3.2	3.9	1.7	3.9	8.4	11.4	9.7	7.2
	P-Value	0.9	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.4	0.0	0.3	0.0
	CD (5%)	1.4	8.4	4.0	2.2	4.1	4.1	1.8	4.4	11.5	12.9	17.2	4.2

TABLE NO. 4 (Contd.)

Sl	Entry Name	DAYS TO 50% POLLEN SHED											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	HT 15066	123.7	78.0	104.0	101.9	116.0	67.0	114.3	87.7	76.7	100.7	97.3	94.2
2	DKC8171(IP8204)	125.3	79.7	109.3	104.8	120.0	68.0	114.7	89.3	78.3	105.3	103.3	97.0
3	BLH 109	121.7	81.3	110.3	104.4	122.0	67.0	118.7	89.3	82.7	103.7	104.3	98.2
4	HM 10 (C)	119.7	79.3	104.7	101.2	113.7	68.0	110.7	86.0	78.3	102.7	96.3	93.7
5	DHM 117 (C)	123.3	81.3	112.3	105.7	121.0	69.0	120.3	88.7	82.0	104.0	106.0	98.7
6	Bio 9544(C)	121.0	80.0	107.7	102.9	119.0	68.0	115.0	88.0	81.3	104.0	104.3	97.1
7	Bio 9637(C)	122.3	82.7	109.7	104.9	120.0	69.0	118.3	87.3	82.7	102.0	102.3	97.4
	General Mean	122.4	80.3	108.3	103.7	118.8	68.0	116.0	88.1	80.3	103.2	102.0	96.6
	CV(%)	2.0	1.7	1.2	1.7	0.7	1.5	1.8	2.1	1.2	3.2	0.6	1.7
	P-Value	0.2	0.0	0.0	0.1	0.0	0.2	0.0	0.3	0.0	0.7	0.0	0.0
	CD (5%)	4.4	2.5	2.3	3.2	1.5	1.8	3.7	3.2	1.8	5.9	1.1	1.9

Sl	Entry Name	DAYS TO 50% POLLEN SHED											
						4				5			All India
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	HT 15066	54.3	70.3	62.3	74.0	64.7	76.3	53.0	65.0	84.3	77.0	80.7	83.3
2	DKC8171(IP8204)	55.3	70.7	66.0	76.0	66.7	75.3	53.3	66.2	87.3	86.3	86.8	85.8
3	BLH 109	55.3	72.0	68.0	76.0	67.3	75.7	54.0	66.9	84.7	85.0	84.8	86.3
4	HM 10 (C)	53.7	71.0	61.7	77.0	64.7	76.0	53.0	65.3	88.0	85.0	86.5	83.7
5	DHM 117 (C)	61.0	72.7	70.3	77.0	69.0	76.3	53.7	68.6	90.3	89.0	89.7	87.8
6	Bio 9544(C)	56.0	70.3	65.7	75.0	67.3	76.0	54.0	66.3	85.3	85.7	85.5	85.5
7	Bio 9637(C)	55.3	73.0	71.3	77.0	68.0	74.3	55.3	67.8	87.7	85.0	86.3	86.5
	General Mean	55.9	71.4	66.5	76.0	66.8	75.7	53.8	66.6	86.8	84.7	85.8	85.5
	CV(%)	0.9	1.2	1.3	0.0	1.0	1.2	1.6	1.1	0.9	0.7	0.8	1.6
	P-Value	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.0
	CD (5%)	0.9	1.5	1.5	0.0	1.2	1.6	1.6	1.7	1.4	1.0	4.6	1.1

TABLE NO. 4 (Contd.)

Sl	Entry Name	DAYS TO 50% SILK											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	HT 15066	127.3	79.0	107.0	104.4	118.7	70.0	117.3	90.3	81.3	105.0	102.3	97.9
2	DKC8171(IP8204)	129.3	81.0	113.0	107.8	122.3	71.0	119.0	92.0	84.0	111.3	106.7	100.9
3	BLH 109	125.3	82.3	113.3	107.0	124.7	70.0	121.3	91.7	86.7	109.0	107.3	101.5
4	HM 10 (C)	122.7	80.3	107.7	103.6	116.3	71.0	113.0	88.7	83.0	107.0	101.7	97.2
5	DHM 117 (C)	126.3	83.3	115.3	108.3	123.7	73.7	122.7	91.3	86.7	109.7	110.7	102.6
6	Bio 9544(C)	124.0	81.0	111.3	105.4	121.3	71.0	115.3	90.7	84.7	108.3	108.0	99.9
7	Bio 9637(C)	125.0	83.7	112.7	107.1	123.0	72.0	121.0	89.7	86.7	106.0	107.3	100.8
	General Mean	125.7	81.5	111.5	106.2	121.4	71.2	118.5	90.6	84.7	108.1	106.3	100.1
	CV(%)	2.1	1.9	1.2	1.8	0.7	1.7	1.9	1.6	0.9	3.6	0.5	1.8
	P-Value	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.5	0.0	0.0
	CD (5%)	4.7	2.7	2.3	3.5	1.6	2.1	3.9	2.6	1.4	6.9	1.0	1.8

Sl	Entry Name	DAYS TO 50% SILK											
		4								5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	HT 15066	59.0	71.0	65.0	76.0	68.3	78.3	55.3	67.6	88.0	79.0	83.5	86.2
2	DKC8171(IP8204)	59.0	73.7	69.3	78.0	72.0	77.3	56.3	69.4	91.3	89.0	90.2	89.3
3	BLH 109	59.0	75.3	71.3	78.0	71.3	77.3	57.3	70.0	88.0	86.3	87.2	89.3
4	HM 10 (C)	57.7	71.7	65.0	79.0	68.3	78.0	55.7	67.9	91.3	86.3	88.8	86.5
5	DHM 117 (C)	63.3	75.0	75.0	79.0	73.0	78.3	57.0	71.5	94.0	90.3	92.2	91.0
6	Bio 9544(C)	59.7	73.0	68.0	77.0	72.0	78.0	56.7	69.2	89.3	86.7	88.0	88.2
7	Bio 9637(C)	58.7	74.3	74.7	79.0	73.0	76.3	58.3	70.6	91.0	86.3	88.7	89.4
	General Mean	59.5	73.4	69.8	78.0	71.1	77.7	56.7	69.5	90.4	86.3	88.4	88.6
	CV(%)	1.1	1.5	0.9	0.0	1.4	1.2	1.1	1.1	1.5	0.8	1.1	1.7
	P-Value	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	1.1	1.9	1.1	0.0	1.7	1.7	1.1	1.8	2.3	1.3	1.8	1.1

TABLE NO. 4 (Contd.)

Sl	Entry Name	DAYS TO 75% DRY HUSK										
		2			3							
		Karnal Mean	Ludhiana Zone Mean	143.5	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Zone Mean	135.1
1	HT 15066	167.7	119.3	143.5	148.0	109.0	158.7	125.3	119.3	148.0	137.7	135.1
2	DKC8171(IP8204)	170.0	122.3	146.2	153.0	109.0	152.3	126.3	122.0	146.0	143.3	136.0
3	BLH 109	169.7	118.0	143.8	151.0	108.0	155.0	130.0	124.3	149.7	141.7	137.1
4	HM 10 (C)	165.3	124.0	144.7	152.0	110.0	152.0	132.7	120.7	148.3	137.0	136.1
5	DHM 117 (C)	166.0	118.0	142.0	151.0	110.0	155.0	137.3	125.0	151.3	141.0	138.7
6	Bio 9544(C)	168.0	119.7	143.8	145.7	108.0	152.3	124.0	122.7	150.3	142.3	135.1
7	Bio 9637(C)	169.3	123.3	146.3	149.0	107.0	154.3	128.0	124.3	148.3	142.3	136.2
	General Mean	168.0	120.7	144.3	150.0	108.7	154.2	129.1	122.6	148.9	140.8	136.3
	CV(%)	1.3	1.3	1.3	0.6	1.0	4.2	2.4	0.8	3.7	0.8	2.6
	P-Value	0.1	0.0	0.5	0.0	0.0	0.9	0.0	0.0	0.9	0.0	0.1
	CD (5%)	3.9	2.8	5.4	1.6	1.9	11.6	5.4	1.7	9.9	2.0	2.7

Sl	Entry Name	DAYS TO 75% DRY HUSK											
		4							5				All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Zone Mean	Banswara Mean	Godhra Mean	Zone Mean		
1	HT 15066	99.7	113.3	100.0	116.0	111.0	118.7	95.0	107.7	126.3	121.3	123.8	124.1
2	DKC8171(IP8204)	99.0	116.0	104.3	118.0	116.7	117.3	95.7	109.6	128.7	124.3	126.5	125.8
3	BLH 109	99.0	114.0	106.3	118.0	113.3	118.0	96.3	109.3	128.3	120.7	124.5	125.6
4	HM 10 (C)	98.3	114.7	100.0	119.0	90.3	118.3	95.3	105.1	126.0	120.7	123.3	123.6
5	DHM 117 (C)	103.3	114.7	110.0	119.0	111.3	118.0	96.3	110.4	131.7	127.3	129.5	127.0
6	Bio 9544(C)	99.7	113.3	103.0	117.0	108.3	118.0	96.0	107.9	126.3	120.7	123.5	124.2
7	Bio 9637(C)	99.3	112.7	109.7	119.0	116.7	116.3	97.7	110.2	128.7	126.0	127.3	126.2
	General Mean	99.8	114.1	104.8	118.0	109.7	117.8	96.1	108.6	128.0	123.0	125.5	125.2
	CV(%)	1.0	2.3	0.6	0.0	1.1	0.8	0.8	1.1	1.9	0.9	1.4	2.0
	P-Value	0.0	0.8	0.0	0.0	0.0	0.2	0.0	0.1	0.1	0.0	0.0	0.0
	CD (5%)	1.7	4.7	1.1	0.0	2.1	1.7	1.3	4.0	4.2	1.9	2.6	1.9

TABLE NO. 4 (Contd.)

Sl	Entry Name	PLANT HEIGHT											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	HT 15066	196.7	198.3	203.7	199.6	184.4	190.7	182.3	252.3	182.5	214.3	206.7	201.9
2	DKC8171(IP8204)	209.3	233.3	267.0	236.6	235.7	198.7	224.0	287.0	229.7	214.3	253.3	234.7
3	BLH 109	190.7	231.7	239.3	220.6	226.4	204.3	209.7	276.4	227.5	198.7	226.7	224.2
4	HM 10 (C)	194.7	191.7	197.7	194.7	204.2	200.0	194.0	258.7	201.9	222.7	220.0	214.5
5	DHM 117 (C)	191.7	211.7	215.0	206.1	210.0	195.3	188.3	283.3	205.5	218.3	203.3	214.9
6	Bio 9544(C)	184.0	191.7	196.0	190.6	179.1	193.0	183.0	253.0	180.1	182.3	195.0	195.1
7	Bio 9637(C)	189.3	200.0	214.3	201.2	206.7	199.0	188.3	279.7	214.4	190.7	230.0	215.5
	General Mean	193.8	208.3	219.0	207.0	206.6	197.3	195.7	270.1	205.9	205.9	219.3	214.4
	CV(%)	7.4	4.7	3.6	5.3	4.5	3.9	2.3	4.8	3.0	10.9	3.9	5.5
	P-Value	0.5	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.3	0.0	0.0
	CD (5%)	25.3	17.5	14.2	20.2	16.4	13.8	8.1	23.3	10.9	40.0	15.1	11.7

Sl	Entry Name	PLANT HEIGHT											
		4							5			All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean		Zone Mean
1	HT 15066	151.5	192.0	184.7	143.3	190.0	241.7	193.3	185.2	221.7	194.4	208.1	196.0
2	DKC8171(IP8204)	184.7	229.0	222.3	171.7	225.0	245.0	210.7	212.6	210.0	187.2	198.6	223.1
3	BLH 109	178.5	239.3	220.7	181.7	203.0	233.3	214.2	210.1	235.0	183.3	209.2	216.9
4	HM 10 (C)	172.6	189.7	210.7	141.7	182.3	235.0	208.1	191.4	243.3	187.8	215.6	203.0
5	DHM 117 (C)	177.4	201.0	203.3	175.0	189.3	231.3	198.5	196.6	215.0	186.7	200.8	205.3
6	Bio 9544(C)	156.4	194.0	185.3	161.7	180.0	231.7	187.3	185.2	235.0	192.2	213.6	192.7
7	Bio 9637(C)	175.7	205.3	203.7	158.3	196.7	250.0	219.7	201.3	223.3	186.1	204.7	206.9
	General Mean	171.0	207.2	204.4	161.9	195.2	238.3	204.5	197.5	226.2	188.3	207.2	206.3
	CV(%)	3.3	7.3	4.3	7.7	6.0	8.5	3.3	6.3	10.0	11.1	10.0	6.5
	P-Value	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.6	1.0	0.8	0.0
	CD (5%)	10.1	26.9	15.7	22.3	21.0	36.0	12.1	10.4	40.2	37.2	29.2	7.3

TABLE NO. 4 (Contd.)

SI	Entry Name	EAR HEIGHT											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneswar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	HT 15066	98.7	105.0	80.3	94.7	80.0	88.7	90.0	120.3	86.3	112.3	95.0	96.1
2	DKC8171(IP8204)	105.7	126.7	110.7	114.3	117.6	94.7	113.7	137.7	111.6	109.3	128.3	116.1
3	BLH 109	96.7	130.0	101.3	109.3	116.8	102.7	100.0	110.3	120.2	105.7	125.0	111.5
4	HM 10 (C)	100.7	108.3	85.3	98.1	95.1	93.0	109.7	142.1	102.2	113.0	105.0	108.6
5	DHM 117 (C)	92.7	115.0	88.7	98.8	97.5	92.0	107.3	107.0	102.7	115.3	108.3	104.3
6	Bio 9544(C)	95.3	106.7	83.0	95.0	95.0	90.3	107.0	112.7	98.1	111.7	116.7	104.5
7	Bio 9637(C)	99.0	115.0	95.7	103.2	104.3	94.0	109.7	132.7	103.3	98.0	126.7	109.8
	General Mean	98.4	115.2	92.1	101.9	100.9	93.6	105.3	123.3	103.5	109.3	115.0	107.3
	CV(%)	10.7	7.4	3.7	7.8	8.9	4.6	4.0	7.7	4.8	14.0	6.4	8.0
	P-Value	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0
	CD (5%)	18.7	15.1	6.0	10.2	16.0	7.7	7.4	16.9	8.9	27.2	13.1	9.7

SI	Entry Name	EAR HEIGHT											
		4								5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	HT 15066	81.1	103.0	81.3	68.3	100.0	114.7	81.2	90.0	108.3	97.8	103.1	94.3
2	DKC8171(IP8204)	91.6	123.7	114.0	91.7	111.7	106.7	108.7	106.9	106.7	87.2	96.9	110.4
3	BLH 109	95.3	135.0	119.3	95.0	115.0	113.0	109.8	111.8	130.0	88.3	109.2	111.0
4	HM 10 (C)	87.7	114.3	105.3	73.3	98.3	110.0	105.5	99.2	111.7	90.0	100.8	102.7
5	DHM 117 (C)	83.4	112.7	102.3	98.3	109.3	110.0	102.4	102.6	113.3	86.7	100.0	102.4
6	Bio 9544(C)	84.4	115.7	103.3	103.3	107.3	116.7	96.0	103.8	113.3	92.8	103.1	102.6
7	Bio 9637(C)	100.4	126.3	105.7	95.0	115.3	119.3	117.1	111.3	115.0	94.4	104.7	108.8
	General Mean	89.1	118.7	104.5	89.3	108.1	112.9	103.0	103.7	114.1	91.0	102.5	104.6
	CV(%)	6.3	7.2	5.7	11.4	6.0	8.7	3.2	7.2	9.1	13.8	10.9	8.1
	P-Value	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.2	0.9	0.7	0.0
	CD (5%)	10.0	15.2	10.5	18.0	11.5	17.5	5.9	7.3	18.4	22.4	16.5	5.0

TABLE NO. 5: PERFORMANCE OF EXPERIMENTAL HYBRIDS/SINGLE CROSS/TOP CROSS & COMPOSITES AT KARNAL, LUDHIANA, PANTNAGAR, BAHRACH, BHUBANESHWAR, DHOLI, KALYANI, RANCHI, SABOUR, VARANASI, COIMBATORE, DHARWAD, KARIMNAGAR, KOLHAPUR, MANDYA, RAHURI, VAGARAI, BANSWARA & GODHRA IN TR.7 DURING RABI (2016-17)

Sl	Entry Name	GRAIN YIELD (kg/Ha) at 15% MOISTURE																							
		2								3															
		Karnal		Ludhiana		Pantnagar		Zone		Bahraich		Bhubaneshwar		Dholi		Kalyani		Ranchi		Sabour		Varanasi		Zone	
Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank		
1	PM14205L	10127	7	9520	6	10289	5	9979	6	10547	3	6815	3	6726	7	14528	5	13881	1	1536	4	9933	4	10405	4
2	NMH 1290	11006	5	10536	2	11740	1	11094	2	6426	7	6643	4	10519	2	14595	4	11920	4	1665	3	9017	5	9853	6
3	DKC 9165(IM8119)	12234	1	11484	1	10798	3	11505	1	11438	1	7068	2	10672	1	18107	1	13263	2	1762	1	10772	1	11887	1
4	Rasi 394	11831	3	9794	4	10112	6	10579	4	8593	5	7160	1	10084	3	15023	3	13186	3	1760	2	10594	2	10773	2
5	Seedtech 2324 (C)	10356	6	9756	5	11200	2	10437	5	10739	2	6081	6	8458	5	14254	6	11852	6	1332	5	8452	6	9973	5
6	Buland(C)	12111	2	8556	7	7813	7	9494	7	7901	6	5842	7	6976	6	9053	7	11875	5	1325	6	8403	7	8342	7
7	Bio 9981(C)	11742	4	10239	3	10678	4	10886	3	8806	4	6226	5	10021	4	15907	2	11425	7	1260	7	10359	3	10457	3
	General Mean	11344	.	9984	.	10376	.	10568	.	9207	.	6548	.	9065	.	14495	.	12486	.	1520	.	9647	.	10241	.
	CV(%)	3	.	6	.	4	.	5	.	3	.	2	.	4	.	11	.	7	.	26	.	5	.	8	.
	P-Value	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	1	.	0	.	0	.
	CD (5%)	692	.	1102	.	789	.	1659	.	508	.	281	.	640	.	2808	.	1505	.	698	.	874	.	1560	.
	Plot Size	18		15.8		18				14.4		14.4		18		18		5.6		14.4		14.4			
	AGRONOMY DATA																								
	Sowing Date	29-11-16		2-2-17		20-12-16				4-12-16		7-12-16		30-11-16		15-12-16		3-2-17		8-12-16		1-12-16			
	Harvest Date	26-5-17		15-6-17		10-6-17				14-5-17		27-4-17		9-6-17		NA		22-6-17		25-5-17		29-4-17			
	Irrigation Nos	9		6		6				5		NA		2		5		8		6		NA			
	Fertilizer Applied N	180		50		120				150		120		150		150		140		130		150			
	Fertilizer Applied P	60		24		60				75		60		70		75		60		75		75			
	Fertilizer Applied K	60		12		40				60		60		60		75		40		50		60			

TABLE NO. 5: (Contd.)

Sl	Entry Name	GRAIN YIELD (kg/Ha) at 15% MOISTURE																							
		4														5						All India			
		Coimbatore		Dharwad		Karimnagar		Kolhapur		Mandya		Rahuri		Vagarai		Zone		Banswara		Godhra		Zone		All India	
Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank		
1	PM14205L	10199	4	7073	3	7774	2	6266	3	10143	3	4439	3	8451	4	7764	2	12565	3	10127	1	11362	3	9404	3
2	NMH 1290	11052	2	6796	5	6477	5	6164	4	8446	7	4437	4	8992	2	7481	4	10450	4	7589	6	9026	5	9044	5
3	DKC 9165(IM8119)	12184	1	8774	1	8510	1	7213	2	10795	1	4703	1	9264	1	8778	1	14690	1	8267	4	11411	1	10558	1
4	Rasi 394	9028	6	7155	2	7109	3	7336	1	8843	6	4482	2	8506	3	7494	3	14508	2	8360	3	11372	2	9525	2
5	Seedtech 2324 (C)	10917	3	6192	6	6498	4	5505	7	8920	5	3861	6	7630	5	7075	6	9725	6	7759	5	8769	6	8788	6
6	Buland(C)	8031	7	4067	7	3910	7	5545	6	9838	4	4064	5	7314	7	6110	7	8511	7	4994	7	6746	7	7490	7
7	Bio 9981(C)	9655	5	6886	4	6355	6	6104	5	10192	2	3841	7	7412	6	7207	5	9729	5	9211	2	9527	4	9158	4
	General Mean	10152	.	6706	.	6662	.	6305	.	9597	.	4261	.	8224	.	7415	.	11454	.	8044	.	9745	.	9138	
	CV(%)	9	.	10	.	9	.	9	.	5	.	12	.	6	.	8	.	9	.	14	.	11	.	8	
	P-Value	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	
	CD (5%)	1621	.	1205	.	1063	.	959	.	797	.	923	.	912	.	828	.	2407	.	2057	.	3753	.	713	
	Plot Size	14.4		14.4		18		18		14.4		18		14.4		14.4		14.4		14.4		14.4		14.4	
	AGRONOMY DATA																								
	Sowing Date	29-12-16		5-12-16		6-12-16		19-12-16		30-11-16		16-12-16		10-1-17				30-11-16		21-12-16					
	Harvest Date	4-5-17		2-5-17		20-4-17		13-5-17		2-5-17		3-5-17		5-5-17				15-5-17		30-4-17					
	Irrigation Nos	12		8		13		NA		12		7		12				6		8					
	Fertilizer Applied N	250		150		240		NA		150		120		250				200		120					
	Fertilizer Applied P	75		65		60		NA		75		60		75				80		60					
	Fertilizer Applied K	75		65		60		NA		40		40		75				0		0					

TABLE NO. 5 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Seedtech 2324											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
1	PM14205L	-2.2	-2.4	-8.1	-4.4	4.3	-1.8	12.1	-20.5	15.3	17.5	9.7	-6.6
2	NMH 1290	6.3	8.0	4.8	6.3	-1.2	-40.2	9.3	24.4	25.0	6.7	5.7	1.2
3	DKC 9165(IM8119)	18.1	17.7	-3.6	10.2	19.2	6.5	16.3	26.2	32.3	27.5	24.1	11.6
4	Rasi 394	14.3	0.4	-9.7	1.4	8.0	-20.0	17.8	19.2	32.1	25.3	5.9	-17.3
5	Seedtech 2324 (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	Buland(C)	17.0	-12.3	-30.2	-9.0	-16.4	-26.4	-3.9	-17.5	-0.5	-0.6	-13.6	-26.4
7	Bio 9981(C)	13.4	5.0	-4.7	4.3	4.9	-18.0	2.4	18.5	-5.5	22.6	1.9	-11.6

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Seedtech 2324											
		4							5				All India
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Mandya	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	
1	PM14205L	14.2	19.6	13.8	13.7	15.0	10.8	29.6	29.2	30.5	7.0	1.9	17.1
2	NMH 1290	9.7	-0.3	12.0	-5.3	14.9	17.9	2.9	7.5	-2.2	2.9	2.4	0.6
3	DKC 9165(IM8119)	41.7	31.0	31.0	21.0	21.8	21.4	30.1	51.1	6.5	20.1	27.0	11.9
4	Rasi 394	15.5	9.4	33.3	-0.9	16.1	11.5	29.7	49.2	7.7	8.4	5.4	11.3
5	Seedtech 2324 (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	Buland(C)	-34.3	-39.8	0.7	10.3	5.3	-4.1	-23.1	-12.5	-35.6	-14.8	-36.5	0.2
7	Bio 9981(C)	11.2	-2.2	10.9	14.3	-0.5	-2.9	8.7	0.0	18.7	4.2	11.6	-3.6

TABLE NO. 5 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Buland											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
1	PM14205L	-16.4	11.3	31.7	5.1	24.7	33.5	16.7	-3.6	15.9	18.2	27.1	27.0
2	NMH 1290	-9.1	23.1	50.3	16.9	18.1	-18.7	13.7	50.8	25.6	7.3	22.4	37.6
3	DKC	1.0	34.2	38.2	21.2	42.5	44.8	21.0	53.0	33.0	28.2	43.7	51.7
4	Rasi 394	-2.3	14.5	29.4	11.4	29.2	8.8	22.6	44.5	32.8	26.1	22.7	12.4
5	Seedtech 2324	-14.5	14.0	43.3	9.9	19.6	35.9	4.1	21.2	0.5	0.6	15.8	35.9
6	Buland(C)	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	Bio 9981(C)	-3.1	19.7	36.7	14.7	25.4	11.5	6.6	43.7	-5.0	23.3	18.0	20.2

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Buland											
		4								5			
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Mandya	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	All India
1	PM14205L	73.9	98.8	13.0	3.1	9.2	15.6	68.4	47.6	102.8	25.6	60.5	16.9
2	NMH 1290	67.1	65.7	11.2	-14.2	9.2	22.9	33.8	22.8	52.0	20.8	61.2	0.4
3	DKC	115.7	117.7	30.1	9.7	15.7	26.7	69.1	72.6	65.6	41.0	100.0	11.7
4	Rasi 394	75.9	81.8	32.3	-10.1	10.3	16.3	68.6	70.5	67.4	27.2	66.0	11.0
5	Seedtech 2324	52.2	66.2	-0.7	-9.3	-5.0	4.3	30.0	14.3	55.4	17.3	57.5	-0.2
6	Buland(C)	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	Bio 9981(C)	69.3	62.5	10.1	3.6	-5.5	1.3	41.2	14.3	84.5	22.3	75.7	-3.8

TABLE NO. 5 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVERBIO 9981											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
1	PM14205L	-13.8	-7.0	-3.6	-8.3	-0.5	19.8	9.5	-32.9	22.0	-4.1	7.7	5.6
2	NMH 1290 DKC	-6.3	2.9	9.9	1.9	-5.8	-27.0	6.7	5.0	32.2	-13.0	3.8	14.5
3	9165(IM8119)	4.2	12.2	1.1	5.7	13.7	29.9	13.5	6.5	39.9	4.0	21.8	26.2
4	Rasi 394 Seedtech 2324	0.8	-4.3	-5.3	-2.8	3.0	-2.4	15.0	0.6	39.7	2.3	4.0	-6.5
5	(C)	-11.8	-4.7	4.9	-4.1	-4.6	22.0	-2.3	-15.6	5.8	-18.4	-1.8	13.1
6	Buland(C)	3.2	-16.4	-26.8	-12.8	-20.2	-10.3	-6.2	-30.4	5.2	-18.9	-15.2	-16.8
7	Bio 9981(C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVERBIO 9981											
		4							5				
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Mandya	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	All India
1	PM14205L	2.7	22.3	2.6	-0.5	15.6	14.0	19.3	29.2	10.0	2.7	-8.7	21.5
2	NMH 1290 DKC	-1.3	1.9	1.0	-17.1	15.5	21.3	-5.3	7.4	-17.6	-1.2	-8.3	4.3
3	9165(IM8119)	27.4	33.9	18.2	5.9	22.5	25.0	19.8	51.0	-10.3	15.3	13.8	16.1
4	Rasi 394 Seedtech 2324	3.9	11.9	20.2	-13.2	16.7	14.8	19.4	49.1	-9.2	4.0	-5.6	15.4
5	(C)	-10.1	2.3	-9.8	-12.5	0.5	2.9	-8.0	0.0	-15.8	-4.0	-10.4	3.7
6	Buland(C)	-40.9	-38.5	-9.2	-3.5	5.8	-1.3	-29.2	-12.5	-45.8	-18.2	-43.1	3.9
7	Bio 9981(C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE NO. 5 (Contd.)

Sl	Entry Name	MOISTURE % AT HARVEST											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	PM14205L	27.3	16.5	24.1	22.6	24.9	19.0	22.6	18.0	25.3	31.4	28.7	31.0
2	NMH 1290 DKC	25.9	16.2	27.1	23.0	24.3	19.9	22.7	19.2	25.3	31.7	31.8	31.1
3	9165(IM8119)	27.3	16.9	21.3	21.8	28.0	19.5	21.5	19.6	24.5	32.0	30.7	31.4
4	Rasi 394 Seedtech 2324	25.4	15.6	22.3	21.1	24.3	19.8	21.2	19.1	26.4	33.2	30.1	30.9
5	(C)	27.8	16.2	21.1	21.7	27.7	20.0	22.1	20.0	25.5	31.7	31.6	32.3
6	Buland(C)	27.1	15.3	21.1	21.1	23.1	19.6	21.8	19.3	26.8	29.2	28.7	31.3
7	Bio 9981(C)	27.5	17.0	22.1	22.2	27.0	19.4	21.4	19.1	25.7	30.5	28.6	31.8
	General Mean	26.9	16.2	22.7	21.9	25.6	19.6	21.9	19.2	25.6	31.4	30.0	31.4
	CV(%)	3.8	3.4	4.3	4.0	2.4	1.6	7.1	2.5	6.6	8.0	2.6	5.5
	P-Value	0.1	0.1	0.0	0.7	0.0	0.2	0.9	0.0	0.8	0.6	0.0	0.5
	CD (5%)	1.8	1.3	2.4	2.6	1.5	0.8	3.8	0.8	4.1	4.5	1.9	1.5

Sl	Entry Name	MOISTURE % AT HARVEST											
		4								5			
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	All India Mean
1	PM14205L	23.7	15.4	20.4	10.4	15.5	7.3	15.5	15.4	18.0	15.8	16.8	22.5
2	NMH 1290 DKC	20.7	14.8	22.5	10.6	15.7	7.4	16.3	15.4	18.3	16.3	17.3	22.6
3	9165(IM8119)	20.5	16.5	19.3	9.9	15.6	7.1	15.9	14.9	17.4	16.7	17.1	22.3
4	Rasi 394 Seedtech 2324	23.4	19.7	18.3	11.1	15.5	7.5	15.8	15.8	19.4	17.4	18.4	22.5
5	(C)	21.1	23.1	17.7	11.0	15.8	7.1	16.8	16.0	17.6	14.7	16.1	23.0
6	Buland(C)	22.8	16.4	20.5	9.5	15.4	7.0	15.9	15.3	17.2	16.1	16.6	22.3
7	Bio 9981(C)	22.7	23.3	22.1	10.0	16.2	6.7	16.8	16.8	16.3	16.4	16.4	23.2
	General Mean	22.1	18.4	20.1	10.3	15.7	7.2	16.1	15.7	17.7	16.2	17.0	22.6
	CV(%)	2.4	19.1	5.5	5.2	2.7	6.4	1.6	8.5	.	2.9	2.7	6.3
	P-Value	0.0	0.2	0.0	0.2	0.7	0.5	0.0	0.5	.	0.0	0.2	0.4
	CD (5%)	1.3	8.6	2.0	1.3	1.0	0.8	0.6	1.8	.	1.2	1.8	0.9

TABLE NO. 5 (Contd.)

Sl	Entry Name	SHELLING %											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Hubaneshwa Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	PM14205L	82.7	84.5	80.9	82.7	79.2	80.2	80.5	86.8	80.0	78.5	76.8	73.5
2	NMH 1290 DKC	77.9	84.2	84.0	82.0	73.0	79.1	80.0	82.8	80.0	75.5	72.0	71.3
3	9165(IM8119)	80.5	85.3	80.8	82.2	82.1	82.2	78.5	84.0	80.0	76.2	74.2	73.3
4	Rasi 394 Seedtech 2324	82.3	81.9	81.7	82.0	75.0	81.9	81.0	82.6	80.0	75.9	71.1	72.2
5	(C)	80.3	85.1	84.6	83.3	80.8	80.0	78.5	86.2	80.0	79.3	74.5	73.1
6	Buland(C)	81.3	79.5	77.0	79.3	77.8	82.3	79.5	82.5	80.0	79.6	70.6	71.7
7	Bio 9981(C)	81.5	83.2	80.6	81.8	74.2	79.5	79.0	86.8	80.0	81.1	73.6	71.9
	General Mean	80.9	83.4	81.4	81.9	77.4	80.7	79.6	84.5	80.0	78.0	73.2	72.4
	CV(%)	1.1	1.2	0.9	1.1	1.0	0.8	2.3	2.6	0.0	4.2	1.3	2.2
	P-Value	0.0	0.0	0.0	0.4	0.0	0.0	0.7	0.3	.	0.3	0.0	0.2
	CD (5%)	1.6	1.8	1.9	3.6	2.0	1.7	4.4	5.4	0.0	5.8	2.3	1.9

Sl	Entry Name	SHELLING %											
		4							5			All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean		Zone Mean
1	PM14205L	79.4	84.1	77.0	88.8	82.0	54.3	79.4	75.7	81.9	85.0	83.6	76.9
2	NMH 1290 DKC	79.8	83.5	73.3	81.4	80.0	54.3	79.9	74.1	82.7	77.4	79.7	75.0
3	9165(IM8119)	78.0	85.2	78.1	80.3	80.5	52.9	80.8	74.7	82.3	81.6	81.9	76.2
4	Rasi 394 Seedtech 2324	73.5	81.9	73.6	82.2	77.0	54.4	79.2	72.5	82.5	77.5	79.7	74.8
5	(C)	78.1	84.1	75.7	82.0	82.0	53.7	78.9	74.4	80.3	85.4	83.1	76.3
6	Buland(C)	73.5	79.8	68.1	78.6	80.1	52.0	76.6	70.7	80.5	79.1	79.7	73.5
7	Bio 9981(C)	79.0	84.4	77.4	84.6	79.5	52.8	78.8	74.6	83.2	82.4	82.8	75.7
	General Mean	77.3	83.3	74.7	82.6	80.2	53.5	79.1	73.8	81.9	81.2	81.5	75.5
	CV(%)	1.6	0.7	2.4	.	1.0	3.3	0.8	1.9	.	2.2	2.1	1.9
	P-Value	0.0	0.0	0.0	.	0.0	0.6	0.0	0.0	.	0.0	0.5	0.0
	CD (5%)	2.9	1.5	3.2	.	1.9	3.2	1.6	1.9	.	4.4	6.3	1.2

TABLE NO. 5 (Contd.)

Sl	Entry Name	STAND AT HARVEST											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	PM14205L	61.3	75.3	63.9	66.8	67.4	61.8	50.2	69.4	68.5	82.9	74.8	67.8
2	NMH 1290	60.9	71.3	65.6	65.9	61.3	64.8	65.4	66.7	67.3	83.3	84.7	70.5
3	DKC	61.3	74.1	63.5	66.3	64.1	62.7	54.3	66.3	66.7	83.3	84.0	68.8
4	Rasi 394	61.9	78.9	58.3	66.4	71.3	64.1	53.5	68.2	69.6	83.3	78.2	69.8
5	Seedtech 2324	61.9	70.7	60.6	64.4	67.4	62.3	60.0	69.4	70.2	81.7	82.6	70.5
6	Buland(C)	62.0	70.0	63.9	65.3	70.4	63.7	60.6	70.4	71.4	82.9	78.5	71.1
7	Bio 9981(C)	63.5	71.5	63.0	66.0	68.8	65.3	65.9	69.4	69.1	83.3	83.1	72.1
	General Mean	61.8	73.1	62.7	65.9	67.2	63.5	58.5	68.5	69.0	83.0	80.9	70.1
	CV(%)	2.3	10.5	3.8	6.7	2.4	2.5	3.0	3.0	4.2	1.4	3.2	2.9
	P-Value	0.5	0.8	0.0	0.9	0.0	0.1	0.0	0.2	0.5	0.6	0.0	0.2
	CD (5%)	2.6	13.6	4.2	4.8	2.8	2.8	3.1	3.6	5.1	2.1	4.7	3.3

Sl	Entry Name	STAND AT HARVEST											
		4							5				All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	PM14205L	66.7	51.2	57.4	63.7	67.8	46.1	61.8	59.2	74.7	67.4	70.6	64.9
2	NMH 1290	65.3	54.6	63.9	64.3	65.7	51.7	62.7	61.2	76.0	70.8	73.2	66.7
3	DKC	66.4	54.6	52.2	65.2	69.4	53.9	63.4	60.8	76.4	73.2	74.7	66.1
4	Rasi 394	66.0	50.9	59.6	65.7	67.4	47.2	63.4	60.0	80.6	75.9	78.1	66.5
5	Seedtech 2324	67.1	50.9	59.4	62.8	67.4	53.2	62.0	60.4	77.4	71.3	74.0	66.2
6	Buland(C)	66.0	49.3	54.8	63.2	66.2	52.0	60.0	58.8	69.4	73.6	72.2	65.8
7	Bio 9981(C)	66.0	49.5	55.6	63.7	68.5	52.6	61.6	59.6	79.2	77.6	78.5	67.2
	General Mean	66.2	51.6	57.6	64.1	67.5	51.0	62.1	60.0	76.2	72.8	74.5	66.2
	CV(%)	1.5	7.1	2.9	1.3	2.2	5.9	1.7	3.5	7.6	6.1	6.1	4.5
	P-Value	0.4	0.4	0.0	0.0	0.1	0.1	0.0	0.4	0.6	0.2	0.2	0.2
	CD (5%)	1.7	6.5	3.0	1.5	2.7	5.4	1.8	2.4	14.1	7.9	7.1	1.8

TABLE NO. 5 (Contd.)

Sl	Entry Name	DAYS TO 50%POLLEN											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Zone Mean	Zone Mean	Bahraich Mean	rubaneshw Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Zone Mean	Zone Mean
1	PM14205L	125.3	78.3	109.0	104.2	122.3	73.0	115.7	89.7	81.3	104.7	106.7	99.1
2	NMH 1290 DKC	121.7	79.7	113.3	104.9	126.0	74.0	117.3	90.3	83.3	105.0	109.7	100.8
3	9165(IM8119)	126.0	79.3	112.0	105.8	124.3	71.0	117.7	89.7	83.3	106.3	110.7	100.4
4	Rasi 394 Seedtech 2324	124.3	78.7	112.0	105.0	119.7	75.0	115.7	89.7	81.3	105.7	107.7	99.2
5	(C)	122.7	79.7	110.7	104.3	121.3	72.3	116.7	91.7	82.0	105.3	107.0	99.5
6	Buland(C)	126.7	82.3	115.0	108.0	122.3	77.0	118.3	91.0	85.7	105.3	109.7	101.3
7	Bio 9981(C)	124.0	78.7	110.0	104.2	119.3	76.0	115.7	91.3	77.7	104.7	107.0	98.8
	General Mean	124.4	79.5	111.7	105.2	122.2	74.1	116.7	90.5	82.1	105.3	108.3	99.9
	CV(%)	1.1	1.2	1.2	1.2	1.1	1.3	1.7	1.3	0.7	1.5	0.6	1.2
	P-Value	0.0	0.0	0.0	0.1	0.0	0.0	0.5	0.2	0.0	0.9	0.0	0.0
	CD (5%)	2.4	1.7	2.5	2.4	2.3	1.7	3.4	2.1	1.1	2.8	1.1	1.7

Sl	Entry Name	DAYS TO 50%POLLEN											
		4								5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	PM14205L	56.7	72.3	73.0	72.3	66.7	74.7	55.0	67.2	89.5	74.0	81.7	86.3
2	NMH 1290 DKC	59.3	75.7	72.7	78.0	73.0	75.7	55.7	70.0	92.0	82.0	87.0	88.7
3	9165(IM8119)	58.0	74.0	72.0	76.0	71.3	76.0	55.7	69.0	92.5	84.0	88.3	88.4
4	Rasi 394 Seedtech 2324	60.0	74.0	72.7	78.0	71.0	77.3	57.0	70.0	90.5	81.0	85.8	88.0
5	(C)	58.3	74.7	72.7	77.0	67.7	77.0	54.0	68.8	90.0	78.3	84.2	87.3
6	Buland(C)	60.0	79.7	76.7	78.0	72.7	75.3	57.0	71.3	89.5	81.3	85.4	89.7
7	Bio 9981(C)	58.3	74.3	71.7	74.0	68.0	75.7	57.7	68.5	92.5	79.0	85.7	87.1
	General Mean	58.7	75.0	73.1	76.2	70.1	76.0	56.0	69.3	90.9	80.0	85.4	87.9
	CV(%)	1.0	1.9	1.2	0.6	1.6	1.0	1.5	1.3	1.2	0.4	0.8	1.2
	P-Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0
	CD (5%)	1.0	2.5	1.5	0.8	1.9	1.4	1.5	1.5	2.6	0.6	4.7	1.0

TABLE NO. 5 (Contd.)

Sl	Entry Name	DAYS TO 50% SILK											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Zone Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Zone Mean	Zone Mean
1	PM14205L	129.0	78.7	112.0	106.6	124.7	76.0	118.0	92.3	85.3	107.7	109.3	101.9
2	NMH 1290 DKC	125.0	80.7	116.3	107.3	128.3	77.0	119.3	92.7	87.3	108.0	109.7	103.2
3	9165(IM8119)	129.0	80.3	115.0	108.1	126.3	74.0	119.7	92.3	87.7	110.0	113.0	103.3
4	Rasi 394 Seedtech 2324	127.7	79.7	115.0	107.4	122.0	78.0	117.7	92.3	84.0	109.7	110.3	102.0
5	(C)	126.0	80.7	113.7	106.8	124.3	75.3	118.7	94.0	86.3	109.3	109.3	102.5
6	Buland(C)	127.3	83.3	118.0	109.6	125.0	80.0	120.3	93.3	88.7	109.3	113.0	104.2
7	Bio 9981(C)	127.7	80.0	113.0	106.9	122.0	79.0	117.7	93.7	84.0	108.7	111.0	102.3
	General Mean	127.4	80.5	114.7	107.5	124.7	77.1	118.8	93.0	86.2	109.0	110.8	102.8
	CV(%)	1.0	1.2	1.2	1.2	1.2	1.2	1.6	0.9	1.1	1.8	2.1	1.5
	P-Value	0.0	0.0	0.0	0.4	0.0	0.0	0.5	0.1	0.0	0.7	0.3	0.1
	CD (5%)	2.4	1.7	2.5	2.9	2.6	1.7	3.3	1.4	1.7	3.5	4.1	1.6

Sl	Entry Name	DAYS TO 50% SILK											
		4							5			All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean		Zone Mean
1	PM14205L	60.3	74.0	75.0	74.3	69.7	76.7	57.7	69.7	93.0	76.0	84.5	88.9
2	NMH 1290 DKC	63.7	78.0	75.3	80.0	76.0	77.7	58.3	72.7	95.5	84.0	89.8	91.2
3	9165(IM8119)	62.3	76.7	75.0	78.0	75.0	78.0	58.3	71.9	96.5	85.3	90.9	91.2
4	Rasi 394 Seedtech 2324	63.7	77.7	75.3	80.0	75.3	79.3	60.0	73.1	94.0	82.7	88.4	90.8
5	(C)	63.0	77.0	75.0	79.0	73.3	79.0	57.3	72.0	94.0	79.7	86.8	90.3
6	Buland(C)	64.3	81.3	80.7	80.0	75.0	77.3	61.0	74.2	93.0	82.7	87.9	92.3
7	Bio 9981(C)	62.3	77.3	74.7	76.0	73.7	77.7	61.0	71.8	96.5	81.0	88.7	90.4
	General Mean	62.8	77.4	75.9	78.2	74.0	78.0	59.1	72.2	94.6	81.6	88.1	90.7
	CV(%)	1.2	2.9	1.0	0.6	1.6	1.0	1.5	1.6	1.4	0.7	1.0	1.5
	P-Value	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0
	CD (5%)	1.4	4.0	1.4	0.8	2.1	1.4	1.6	1.4	3.2	1.0	4.4	1.0

TABLE NO. 5 (Contd.)

Sl	Entry Name	DAYS TO 75% DRY HUSK										
		2			3							
		Karnal Mean	Ludhiana Zone Mean		Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Zone Mean	
1	PM14205L	168.0	118.0	143.0	119.0	147.0	133.7	122.0	149.0	145.3	111.2	138.6
2	NMH 1290	167.0	120.3	143.7	119.0	147.3	137.3	125.3	148.3	148.0	113.0	139.8
3	DKC											
3	9165(IM8119)	167.3	122.0	144.7	117.0	149.0	136.0	125.3	150.0	147.7	112.7	140.2
4	Rasi 394	165.0	119.7	142.3	117.3	146.3	141.7	122.0	148.7	145.7	113.0	139.6
5	Seedtech 2324											
5	(C)	162.7	118.3	140.5	119.0	146.3	134.0	123.7	149.3	143.7	112.7	138.8
6	Buland(C)	169.0	119.3	144.2	116.0	149.3	135.7	124.0	146.3	146.3	113.6	138.3
7	Bio 9981(C)	166.3	118.3	142.3	117.0	147.7	140.0	122.3	144.7	145.3	112.3	138.8
	General Mean	166.5	119.4	143.0	117.8	147.6	136.9	123.5	148.1	146.0	112.6	139.2
	CV(%)	0.7	1.0	0.8	0.9	1.3	2.4	0.9	1.7	0.4	0.8	1.3
	P-Value	0.0	0.0	0.3	0.0	0.4	0.1	0.0	0.2	0.0	0.2	0.4
	CD (5%)	2.1	2.1	3.9	1.8	3.4	5.9	1.9	4.4	1.0	1.8	2.0

Sl	Entry Name	DAYS TO 75% DRY HUSK											
		4							5				All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Zone Mean	Banswara Mean	Godhra Mean	Zone Mean		
1	PM14205L	116.7	115.0	116.0	113.7	116.7	98.3	121.8	154.3	113.0	126.6	102.0	130.5
2	NMH 1290	116.7	115.3	123.0	115.7	117.7	98.0	127.9	153.3	119.3	128.5	104.7	136.5
3	DKC												
3	9165(IM8119)	116.7	115.0	121.0	116.0	118.0	98.7	129.4	156.3	121.3	128.8	103.7	137.5
4	Rasi 394	116.0	115.3	123.0	112.0	119.3	100.0	129.9	155.3	124.7	128.5	105.0	135.0
5	Seedtech 2324												
5	(C)	116.7	115.0	122.0	113.7	119.0	97.0	124.0	155.3	111.7	127.2	105.3	136.5
6	Buland(C)	116.7	120.7	123.0	111.0	117.3	101.7	123.3	150.7	113.7	127.7	105.0	133.0
7	Bio 9981(C)	116.7	114.7	119.0	113.0	117.7	101.3	125.7	154.3	114.0	127.4	103.7	137.5
	General Mean	116.6	115.9	121.0	113.6	118.0	99.3	126.0	154.2	116.8	127.8	104.2	135.2
	CV(%)	0.7	0.7	0.0	1.1	0.7	1.0	1.2	0.1	1.2	1.1	1.2	1.2
	P-Value	0.9	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0
	CD (5%)	1.5	1.4	0.0	2.1	1.4	1.8	8.4	0.4	2.6	1.3	2.2	4.1

TABLE NO. 5 (Contd.)

Sl	Entry Name	PLANT HEIGHT											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bhraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	PM14205L	210.0	223.3	268.7	234.0	253.5	219.0	197.3	329.3	230.2	233.3	231.7	242.1
2	NMH 1290 DKC	213.0	238.3	252.3	234.6	227.7	219.7	210.0	342.3	226.2	201.3	195.0	231.8
3	9165(IM8119)	200.0	196.7	235.7	210.8	215.0	210.0	203.3	289.3	191.1	217.7	185.0	215.9
4	Rasi 394 Seedtech 2324	205.0	200.0	230.7	211.9	195.2	213.3	205.7	300.8	182.1	234.7	186.7	216.9
5	(C)	197.3	191.7	225.7	204.9	189.5	209.0	200.7	265.3	189.2	233.3	175.0	208.9
6	Buland(C)	208.0	231.7	254.0	231.2	214.5	220.7	202.3	297.0	228.1	217.0	193.3	224.7
7	Bio 9981(C)	214.3	216.7	246.3	225.8	218.4	219.7	217.7	324.7	211.4	218.0	196.7	229.5
	General Mean	206.8	214.1	244.8	221.9	216.3	215.9	205.3	307.0	208.3	222.2	194.8	224.2
	CV(%)	4.4	5.3	2.2	4.0	5.1	2.6	11.0	2.1	4.6	7.8	6.3	5.9
	P-Value	0.3	0.0	0.0	0.0	0.0	0.1	0.9	0.0	0.0	0.3	0.0	0.0
	CD (5%)	16.1	20.1	9.4	14.9	19.4	9.9	40.2	11.3	17.0	30.9	21.7	15.5

Sl	Entry Name	PLANT HEIGHT											
		4							5			6	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	All India Mean
1	PM14205L	188.7	224.7	255.0	200.0	237.7	250.0	214.6	224.4	265.0	205.6	234.8	233.5
2	NMH 1290 DKC	190.4	191.3	245.0	156.7	186.0	250.0	221.8	205.9	232.5	194.4	213.6	220.8
3	9165(IM8119)	152.8	208.5	206.7	131.7	203.3	238.0	201.3	191.8	272.5	193.3	231.9	207.8
4	Rasi 394 Seedtech 2324	179.2	224.3	216.7	150.0	169.7	256.3	221.4	202.5	252.5	203.3	227.7	211.9
5	(C)	165.1	211.0	208.3	135.0	174.3	265.0	211.6	195.8	215.0	194.4	205.4	203.1
6	Buland(C)	184.4	199.4	253.3	166.7	220.7	249.0	217.4	213.0	250.0	195.6	222.5	221.2
7	Bio 9981(C)	187.9	207.0	238.3	178.3	209.7	249.3	213.5	212.0	255.0	200.0	227.2	222.2
	General Mean	178.4	209.5	231.9	159.8	200.2	251.1	214.5	206.5	248.9	198.1	223.3	217.2
	CV(%)	3.7	8.4	4.8	5.6	4.6	1.9	2.6	4.8	3.6	5.7	4.8	5.2
	P-Value	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.4	0.0
	CD (5%)	11.6	31.3	19.7	15.8	16.5	8.7	9.9	15.6	22.2	20.2	31.5	8.6

TABLE NO. 5 (Contd.)

Sl	Entry Name	EAR HEIGHT											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	PM14205L	102.7	113.3	112.0	109.3	132.2	100.3	119.7	131.7	107.3	112.3	106.7	115.7
2	NMH 1290 DKC	117.7	130.0	99.3	115.7	103.3	101.7	110.0	146.7	112.4	108.7	80.0	109.0
3	9165(IM8119)	106.3	100.0	95.3	100.6	87.3	99.7	108.0	117.3	92.5	115.0	83.3	100.5
4	Rasi 394 Seedtech 2324	103.3	125.0	98.7	109.0	89.3	99.0	105.0	147.1	98.5	125.0	98.3	108.9
5	(C)	98.7	113.3	100.7	104.2	103.5	97.3	107.3	137.5	103.1	119.0	101.7	109.9
6	Buland(C)	114.0	135.0	108.3	119.1	97.1	101.3	104.3	144.7	128.9	114.3	100.0	113.0
7	Bio 9981(C)	113.3	125.0	105.7	114.7	102.1	101.7	111.3	149.5	102.7	111.0	93.3	110.2
	General Mean	108.0	120.2	102.9	110.4	102.1	100.1	109.4	139.2	106.5	115.1	94.8	109.6
	CV(%)	5.6	7.9	3.1	6.1	8.8	4.0	5.0	6.8	4.6	9.0	8.6	7.0
	P-Value	0.0	0.0	0.0	0.1	0.0	0.8	0.1	0.0	0.0	0.6	0.0	0.1
	CD (5%)	10.7	16.9	5.7	12.5	16.0	7.0	9.6	16.8	8.7	18.5	14.6	9.8

Sl	Entry Name	EAR HEIGHT											
		4								5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	PM14205L	89.2	116.1	112.7	83.3	114.0	120.3	107.7	106.2	115.0	124.4	120.6	111.7
2	NMH 1290 DKC	91.0	105.3	122.7	83.3	118.3	124.3	116.9	108.8	112.5	124.4	119.6	111.0
3	9165(IM8119)	73.6	115.3	91.3	60.0	98.7	118.3	98.1	93.6	120.0	125.0	122.9	100.2
4	Rasi 394 Seedtech 2324	82.2	126.6	118.3	90.0	113.7	124.3	112.7	109.7	120.0	125.6	123.3	110.6
5	(C)	87.4	112.3	107.3	66.7	107.0	122.3	109.4	101.8	117.5	118.9	118.3	106.9
6	Buland(C)	104.3	113.0	127.7	88.3	145.7	114.3	128.9	117.5	120.0	123.2	121.9	116.5
7	Bio 9981(C)	93.1	114.3	118.0	86.7	117.0	120.0	116.9	109.4	115.0	122.2	119.3	111.5
	General Mean	88.7	114.7	114.0	79.8	116.3	120.6	112.9	106.7	117.1	123.4	120.8	109.8
	CV(%)	4.6	12.8	7.5	15.2	5.3	2.6	3.3	8.0	9.2	9.8	8.5	7.5
	P-Value	0.0	0.8	0.0	0.1	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0
	CD (5%)	7.3	26.1	15.1	21.6	11.0	5.7	6.6	8.1	26.4	21.6	16.0	5.1

TABLE NO. 6: PERFORMANCE OF EXPERIMENTAL HYBRIDS/SINGLE CROSS/TOP CROSS & COMPOSITES AT KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, BHUBANESHWAR, DHOLI, KALYANI, RANCHI, SABOUR, VARANASI, COIMBATORE, DHARWAD, KARIMNAGAR, KOLHAPUR, MANDYA, RAHURI, VAGARAI, BANSWARA & GODHRA IN TR.8 DURING RABI (2016-17)

Sl	Entry Name	GRAIN YIELD (kg/Ha) at 15% MOISTURE																							
		2								3															
		Karnal		Ludhiana		Pantnagar		Zone		Bahraich		Bhubaneshwar		Dholi		Kalyani		Ranchi		Sabour		Varanasi		Zone	
Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank		
1	PM142096M	9417	7	9563	6	12441	2	10474	5	6748	6	6665	3	7376	7	13146	6	11260	6	1557	2	9591	5	9131	6
2	HT 1412081	10771	2	10723	3	13821	1	11772	1	8971	3	6672	2	9869	5	16081	2	12812	5	1410	3	10698	2	10851	4
3	CP.222	10403	5	10728	2	12245	3	11125	2	10674	1	6546	4	11615	1	14075	4	14264	1	1237	7	9762	4	11156	1
4	BLH 101	9164	8	10654	4	11855	4	10558	3	7870	4	6776	1	10097	4	17165	1	14257	2	1627	1	9170	6	10889	2
5	*Filler (against BH	9998	6	9777	5	11746	5	10507	4	9918	2	5852	7	10947	2	15001	3	13146	4	1299	5	10344	3	10868	3
6	BLH 102	11051	1	10964	1	9172	7	10396	6	6548	7	5821	8	10832	3	11821	7	14091	3	1251	6	10889	1	10000	5
7	HM 10(C)	10602	3	5909	8	6891	8	7801	8	6046	8	6376	5	7250	8	10569	8	9037	8	1408	4	8023	7	7884	8
8	Bio 9637 (C)	10430	4	8434	7	9463	6	9442	7	7358	5	6107	6	9408	6	13367	5	11130	7	1044	8	7342	8	9118	7
	General Mean	10230	.	9594	.	10954	.	10259	.	8016	.	6352	.	9674	.	13903	.	12500	.	1354	.	9477	.	9987	.
	CV(%)	3	.	9	.	9	.	7	.	6	.	3	.	2	.	14	.	7	.	27	.	6	.	10	.
	P-Value	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	1	.	0	.	0	.
	CD (5%)	571	.	1442	.	1668	.	2525	.	841	.	294	.	416	.	3493	.	1574	.	649	.	1003	.	1399	.
	Plot Size	18		15.8		18				14.4		14.4		18		18		5.6		14.4		14.4			
	AGRONOMY DATA																								
	Sowing Date	29-11-16		2-2-17		20-12-16				2-12-16		7-12-16		30-11-16		14-12-16		3-2-17		8-12-16		30-11-16			
	Harvest Date	23-5-17		12-6-17		9-6-17				15-5-17		25-4-17		8-6-17		Na		22-6-17		30-5-17		30-4-17			
	Irrigation Nos	8		15		6				5		NA		2		5		8		6		NA			
	Fertilizer Applied N	180		50		120				150		120		150		150		140		130		150			
	Fertilizer Applied P	60		24		60				75		60		70		75		60		75		75			
	Fertilizer Applied K	60		12		40				60		60		60		75		40		50		60			

TABLE NO. 6: Contd.

Sl	Entry Name	GRAIN YIELD (kg/Ha) at 15% MOISTURE																							
		4												5						All India					
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Mandya	Rahuri	Vagarai	Zone	Banswara	Godhra	Zone	Mean Rank												
Mean Rank	Mean Rank	Mean Rank	Mean Rank	Mean Rank	Mean Rank	Mean Rank	Mean Rank	Mean Rank	Mean Rank	Mean Rank	Mean Rank	Mean Rank	Mean Rank	Mean Rank	Mean Rank	Mean Rank	Mean Rank								
1	PM142096M	11124	2	8922	2	6547	5	6285	4	9059	7	5619	4	7789	4	7906	4	14030	4	6786	2	10408	3	9020	6
2	HT 1412081	11559	1	8398	4	7648	1	6422	3	9720	4	5665	3	7714	5	8161	2	14715	2	6247	4	10481	2	9917	1
3	CP.222	9769	7	6964	6	5913	6	5667	6	10060	2	5867	2	9003	2	7606	6	12513	6	6011	6	9262	6	9560	4
4	BLH 101	10075	6	8205	5	6782	4	7058	2	10395	1	4668	8	8644	3	7975	3	13498	5	7125	1	10312	4	9636	2
5	*Filler (against BH	10448	3	8807	3	7246	2	5843	5	9503	6	4977	5	7373	6	7742	5	14302	3	6028	5	10165	5	9514	5
6	BLH 102	10133	5	9619	1	6968	3	8488	1	9747	3	6223	1	9141	1	8617	1	14996	1	6396	3	10696	1	9606	3
7	HM 10(C)	5974	8	5601	8	4942	8	4881	8	7857	8	4966	6	7166	7	5912	8	8897	7	5593	7	7245	7	7032	8
8	Bio 9637 (C)	10181	4	6197	7	5728	7	5546	7	9509	5	4755	7	6800	8	6959	7	8555	8	4657	8	6606	8	8054	7
	General Mean	9908	.	7839	.	6472	.	6274	.	9481	.	5343	.	7954	.	7610	.	12688	.	6105	.	9397	.	9042	
	CV(%)	8	.	11	.	11	.	12	.	6	.	13	.	6	.	9	.	9	.	8	.	9	.	9	
	P-Value	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	
	CD (5%)	1323	.	1559	.	1217	.	1331	.	940	.	1213	.	844	.	852	.	1929	.	867	.	3398	.	745	
	Plot Size	NA		14.4		18		18		14.4		18		14.4				NA		14.4					
	AGRONOMY DATA																								
	Sowing Date	NA		5-12-16		1-12-16		17-12-16		30-11-16		16-12-16		10-1-17				NA		7-12-16					
	Harvest Date	NA		2-5-17		12-4-17		12-5-17		2-5-17		3-5-17		2-5-17				NA		22-4-17					
	Irrigation Nos	NA		8		11		NA		12		7		11				NA		8					
	Fertilizer Applied N	NA		150		240		NA		150		120		50				NA		120					
	Fertilizer Applied P	NA		65		60		NA		75		60		75				NA		60					
	Fertilizer Applied K	NA		65		60		NA		40		40		75				NA		0					

TABLE NO. 6 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER HM 10											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
1	PM142096M	-11.2	61.9	80.6	34.3	11.6	4.5	1.7	10.6	19.6	33.7	86.2	15.8
2	HT 1412081	1.6	81.5	100.6	50.9	48.4	4.6	36.1	0.2	33.4	38.0	93.5	37.6
3	CP.222	-1.9	81.6	77.7	42.6	76.5	2.7	60.2	-12.1	21.7	28.6	63.5	41.5
4	BLH 101	-13.6	80.3	72.0	35.3	30.2	6.3	39.3	15.6	14.3	34.9	68.7	38.1
5	*Filler (against BH 412066)	-5.7	65.5	70.5	34.7	64.0	-8.2	51.0	-7.8	28.9	31.0	74.9	37.9
6	BLH 102	4.2	85.5	33.1	33.3	8.3	-8.7	49.4	-11.1	35.7	45.7	69.6	26.9
7	HM 10(C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	Bio 9637 (C)	-1.6	42.7	37.3	21.0	21.7	-4.2	29.8	-25.9	-8.5	17.7	70.4	15.7

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER HM 10											
		4							5				All India
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Mandya	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	
1	PM142096M	32.5	28.8	15.3	13.2	8.7	43.7	57.7	59.3	28.3	21.3	24.4	24.6
2	HT 1412081	54.8	31.6	23.7	14.1	7.6	44.7	65.4	49.9	41.0	11.7	52.2	41.8
3	CP.222	19.6	16.1	28.0	18.1	25.6	27.8	40.6	24.3	35.9	7.5	33.2	57.8
4	BLH 101	37.2	44.6	32.3	-6.0	20.6	42.3	51.7	46.5	37.0	27.4	62.4	57.8
5	*Filler (against BH 412066)	46.6	19.7	20.9	0.2	2.9	40.3	60.7	57.2	35.3	7.8	41.9	45.5
6	BLH 102	41.0	73.9	24.1	25.3	27.6	47.6	68.5	71.7	36.6	14.4	11.8	55.9
7	HM 10(C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	Bio 9637 (C)	15.9	13.6	21.0	-4.3	-5.1	-8.8	-3.9	10.6	14.5	-16.7	26.5	23.2

TABLE NO. 6 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Bio 9637											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
1	PM142096M	-9.7	13.4	31.5	10.9	-8.3	9.1	-21.6	-1.7	1.2	49.2	30.6	0.1
2	HT 1412081	3.3	27.1	46.1	24.7	21.9	9.3	4.9	20.3	15.1	35.2	45.7	19.0
3	CP.222	-0.3	27.2	29.4	17.8	45.1	7.2	23.5	5.3	28.2	18.5	33.0	22.4
4	BLH 101	-12.1	26.3	25.3	11.8	7.0	11.0	7.3	28.4	28.1	55.9	24.9	19.4
5	*Filler (against BH 412066)	-4.1	15.9	24.1	11.3	34.8	-4.2	16.4	12.2	18.1	24.4	40.9	19.2
6	BLH 102	6.0	30.0	-3.1	10.1	-11.0	-4.7	15.1	-11.6	26.6	19.9	48.3	9.7
7	HM 10(C)	1.7	-29.9	-27.2	-17.4	-17.8	4.4	-22.9	-20.9	-18.8	34.9	9.3	-13.5
8	Bio 9637 (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER Bio 9637											
		4								5			
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Mandya	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	All India
1	PM142096M	9.3	44.0	14.3	13.3	-4.7	18.2	14.6	13.6	64.0	45.7	57.6	12.0
2	HT 1412081	13.5	35.5	33.5	15.8	2.2	19.2	13.4	17.3	72.0	34.1	58.7	23.1
3	CP.222	-4.1	12.4	3.2	2.2	5.8	23.4	32.4	9.3	46.3	29.1	40.2	18.7
4	BLH 101	-1.0	32.4	18.4	27.3	9.3	-1.8	27.1	14.6	57.8	53.0	56.1	19.7
5	*Filler (against BH 412066)	2.6	42.1	26.5	5.4	-0.1	4.7	8.4	11.3	67.2	29.4	53.9	18.1
6	BLH 102	-0.5	55.2	21.6	53.1	2.5	30.9	34.4	23.8	75.3	37.3	61.9	19.3
7	HM 10(C)	-41.3	-9.6	-13.7	-12.0	-17.4	4.5	5.4	-15.0	4.0	20.1	9.7	-12.7
8	Bio 9637 (C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE NO. 6 (Contd.)

Sl	Entry Name	MOISTURE % AT HARVEST											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	PM142096M	26.8	15.3	22.9	21.6	24.0	20.1	20.2	19.9	24.2	32.3	31.4	30.9
2	HT 1412081	27.3	16.5	23.0	22.3	26.9	19.4	23.0	18.2	24.7	30.4	30.3	31.6
3	CP.222	28.0	17.3	25.7	23.6	27.9	19.7	22.6	18.9	25.7	30.3	35.4	32.7
4	BLH 101	28.7	15.1	25.9	23.2	24.2	19.5	22.2	19.0	26.5	35.0	32.1	31.4
5	*Filler (against BH 412066)	28.6	15.2	25.9	23.2	27.2	19.9	21.0	19.8	24.6	29.9	29.4	31.6
6	BLH 102	26.4	15.0	27.0	22.8	27.5	20.5	22.3	18.6	26.7	34.8	34.7	33.2
7	HM 10(C)	27.1	15.1	23.1	21.8	25.0	18.9	21.6	18.5	25.0	29.6	28.4	30.4
8	Bio 9637 (C)	27.3	15.7	25.9	23.0	25.0	19.6	23.0	18.7	25.6	28.3	31.5	31.7
	General Mean	27.5	15.6	24.9	22.7	25.9	19.7	22.0	18.9	25.3	31.3	31.6	31.7
	CV(%)	3.4	2.7	3.3	3.5	3.2	1.6	2.7	3.5	6.8	7.2	3.8	4.0
	P-Value	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.8	0.0	0.0	0.0
	CD (5%)	1.6	1.0	1.9	1.9	2.0	0.8	1.4	1.2	4.1	3.9	2.8	1.4

Sl	Entry Name	MOISTURE % AT HARVEST											
		4							5			All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean		Zone Mean
1	PM142096M	23.7	10.3	20.1	10.5	14.9	7.8	17.3	14.9	16.4	16.7	16.5	22.0
2	HT 1412081	19.8	14.2	17.4	11.9	14.9	7.6	15.9	14.5	16.7	16.3	16.5	22.2
3	CP.222	21.9	16.7	18.8	12.4	16.2	7.5	16.5	15.6	17.9	15.5	16.7	23.3
4	BLH 101	24.1	11.2	17.9	10.9	15.4	6.9	15.8	14.5	17.0	17.6	17.3	22.4
5	*Filler (against BH 412066)	24.9	11.4	18.8	11.3	14.9	7.6	15.8	14.9	16.5	16.6	16.5	22.6
6	BLH 102	21.6	9.4	18.7	11.5	15.0	6.7	15.8	14.1	17.9	15.3	16.6	22.8
7	HM 10(C)	22.2	12.4	17.9	11.1	14.7	7.5	15.8	14.5	17.3	16.0	16.6	21.7
8	Bio 9637 (C)	19.4	18.6	21.0	11.2	14.5	7.6	15.9	15.4	16.4	15.6	16.0	22.7
	General Mean	22.2	13.0	18.8	11.3	15.0	7.4	16.1	14.8	17.0	16.2	16.6	22.5
	CV(%)	4.5	19.9	6.8	6.8	3.5	6.0	1.9	8.0	3.2	5.7	4.5	5.0
	P-Value	0.0	0.1	0.1	0.4	0.2	0.1	0.0	0.6	0.1	0.4	0.9	0.0
	CD (5%)	2.4	6.1	2.2	1.8	1.2	0.8	0.7	1.7	1.3	2.2	2.0	0.9

TABLE NO. 6 (Contd.)

Sl	Entry Name	SHELLING %											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	PM142096M	80.4	84.6	85.1	83.3	73.0	83.0	80.0	88.4	80.0	76.3	80.3	73.9
2	HT 1412081	82.7	84.3	83.5	83.5	78.1	82.6	80.0	84.9	80.0	78.6	78.1	73.4
3	CP.222	84.0	86.4	85.7	85.3	81.8	80.2	82.5	86.5	80.0	79.0	75.9	73.8
4	BLH 101	81.0	87.5	84.3	84.3	77.9	79.5	81.0	89.3	80.0	76.7	77.7	74.4
5	*Filler (against BH 412066)	81.9	85.3	86.1	84.4	81.2	79.6	80.5	87.0	80.0	79.5	77.0	73.6
6	BLH 102	81.7	86.5	79.6	82.7	80.5	80.3	80.0	88.2	80.0	82.6	79.3	74.7
7	HM 10(C)	81.6	81.5	84.8	82.5	75.0	82.0	80.0	81.7	80.0	75.4	71.6	71.4
8	Bio 9637 (C)	81.4	83.6	83.0	82.7	75.8	81.6	79.5	83.6	80.0	78.6	72.1	71.6
	General Mean	81.8	85.0	84.0	83.6	77.9	81.1	80.4	86.2	80.0	78.3	76.5	73.3
	CV(%)	0.9	2.8	1.1	2.0	1.0	0.6	1.9	4.0	0.0	3.2	0.9	2.3
	P-Value	0.0	0.1	0.0	0.5	0.0	0.0	0.6	0.4	.	0.3	0.0	0.0
	CD (5%)	1.3	4.2	2.3	3.0	1.8	1.2	3.6	8.1	0.0	5.9	1.6	2.2

Sl	Entry Name	SHELLING %											
		4								5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	PM142096M	81.9	86.1	81.9	81.6	84.0	56.5	78.5	77.2	81.0	81.2	81.1	77.4
2	HT 1412081	80.4	85.0	80.4	86.2	83.5	56.2	78.7	76.8	81.0	75.8	78.4	76.9
3	CP.222	81.4	85.9	81.5	83.1	82.5	61.7	80.8	78.1	82.0	75.8	78.9	77.8
4	BLH 101	81.9	86.9	84.0	82.4	85.5	54.0	80.1	77.7	80.6	81.3	80.9	77.9
5	*Filler (against BH 412066)	81.3	85.0	79.8	80.0	82.0	55.3	79.3	76.0	80.8	79.9	80.4	77.0
6	BLH 102	79.8	87.4	82.3	84.7	83.5	57.8	81.5	78.0	82.2	80.0	81.1	77.9
7	HM 10(C)	74.3	79.0	74.2	76.7	78.5	53.9	77.6	72.0	80.6	84.3	82.4	74.6
8	Bio 9637 (C)	80.9	84.2	74.4	83.0	79.5	55.4	78.2	74.6	78.3	78.8	78.6	75.3
	General Mean	80.2	84.9	79.8	82.2	82.4	56.4	79.3	76.3	80.8	79.6	80.2	76.9
	CV(%)	1.4	1.0	2.0	.	1.4	6.9	0.8	2.8	1.0	1.6	1.3	2.4
	P-Value	0.0	0.0	0.0	.	0.0	0.3	0.0	0.0	0.0	0.0	0.6	0.0
	CD (5%)	2.7	2.0	2.8	.	2.6	6.8	1.4	2.0	1.9	3.0	5.4	1.3

TABLE NO. 6 (Contd.)

Sl	Entry Name	STAND AT HARVEST											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bhraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	PM142096M	62.0	64.6	65.7	64.1	66.0	65.7	59.3	68.3	67.3	75.9	79.9	68.9
2	HT 1412081	61.5	75.7	65.9	67.7	66.9	61.3	66.3	63.7	66.7	83.3	83.1	70.2
3	CP.222	61.5	69.8	65.9	65.8	60.4	64.8	59.1	57.8	68.5	75.5	83.3	67.1
4	BLH 101	62.8	67.9	65.0	65.2	69.0	62.3	58.7	68.9	65.5	74.5	82.6	68.8
5	*Filler (against BH 412066)	63.3	66.7	64.1	64.7	63.4	63.2	53.7	60.7	67.9	83.3	82.9	67.9
6	BLH 102	63.3	72.6	62.2	66.0	64.1	62.3	55.2	52.6	68.5	83.1	82.2	66.8
7	HM 10(C)	61.9	48.1	40.4	50.1	70.1	64.6	37.4	60.6	64.9	76.4	62.0	62.3
8	Bio 9637 (C)	63.9	63.9	52.4	60.1	72.5	61.8	59.6	69.3	69.1	64.6	76.9	67.7
	General Mean	62.5	66.2	60.2	63.0	66.6	63.3	56.2	62.7	67.3	77.1	79.1	67.5
	CV(%)	1.0	9.1	7.4	6.9	2.4	2.4	2.1	10.1	5.5	15.3	5.7	8.2
	P-Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	0.6	0.0	0.3
	CD (5%)	1.1	10.5	7.8	9.5	2.8	2.7	2.1	11.1	6.4	20.7	7.9	5.9

Sl	Entry Name	STAND AT HARVEST											
		4							5				All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	PM142096M	65.3	65.5	62.2	63.7	71.5	57.2	62.3	64.0	76.9	71.8	74.3	66.9
2	HT 1412081	64.8	65.5	64.1	63.7	70.1	56.1	61.1	63.6	81.5	60.2	70.8	67.5
3	CP.222	65.5	66.0	68.3	62.6	76.4	58.3	63.7	65.8	76.6	73.2	74.9	67.2
4	BLH 101	66.2	65.3	57.8	64.3	72.0	57.8	63.0	63.8	72.7	66.4	69.6	66.5
5	*Filler (against BH 412066)	65.5	67.4	55.2	63.2	70.8	55.6	61.8	62.8	82.6	78.7	80.7	66.8
6	BLH 102	66.0	62.7	62.4	65.6	69.4	57.6	63.7	63.9	77.1	80.1	78.6	66.9
7	HM 10(C)	64.8	48.6	48.7	62.0	69.7	57.8	60.4	58.9	71.1	62.7	66.9	59.6
8	Bio 9637 (C)	65.7	60.2	54.6	62.4	69.2	56.9	62.0	61.6	73.8	66.7	70.3	64.5
	General Mean	65.5	62.6	59.2	63.4	71.2	57.2	62.2	63.0	76.5	70.0	73.3	65.7
	CV(%)	1.2	8.1	3.6	1.4	5.3	2.3	2.1	4.2	6.8	6.8	6.5	6.8
	P-Value	0.4	0.0	0.0	0.0	0.4	0.3	0.1	0.0	0.2	0.0	0.2	0.0
	CD (5%)	1.4	8.9	3.7	1.6	6.6	2.3	2.3	3.3	9.1	8.4	11.5	3.0

TABLE NO. 6 (Contd.)

Sl	Entry Name	DAYS TO 50 % POLLEN SHED											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	PM142096M	119.7	77.7	107.3	101.6	121.0	66.0	115.7	88.3	77.0	103.7	103.7	96.5
2	HT 1412081	121.0	75.7	107.3	101.3	122.3	68.0	113.7	88.3	76.7	102.0	104.7	96.5
3	CP.222	126.3	77.7	110.7	104.9	124.3	67.0	115.7	87.7	81.0	103.7	111.7	98.7
4	BLH 101	121.7	79.7	110.0	103.8	118.3	67.0	112.0	86.7	81.3	102.7	109.3	96.8
5	*Filler (against BH 412066)	121.0	78.7	107.7	102.4	123.0	69.0	115.7	88.3	76.7	104.7	107.7	97.9
6	BLH 102	121.0	79.3	108.3	102.9	121.3	70.0	111.0	86.7	80.3	105.7	107.7	97.5
7	HM 10(C)	122.0	77.7	106.3	102.0	120.0	67.0	111.7	87.0	77.0	104.0	104.0	95.8
8	Bio 9637 (C)	123.7	79.7	110.3	104.6	121.3	69.0	116.3	89.3	80.3	104.0	109.0	98.5
	General Mean	122.0	78.3	108.5	102.9	121.5	67.9	114.0	87.8	78.8	103.8	107.2	97.3
	CV(%)	0.6	2.0	1.3	1.3	0.3	1.5	0.6	0.7	1.2	2.1	0.7	1.1
	P-Value	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
	CD (5%)	1.3	2.7	2.5	2.3	0.5	1.8	1.2	1.0	1.7	3.8	1.3	1.8

Sl	Entry Name	DAYS TO 50% POLLEN SHED											
		4								5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	PM142096M	57.0	74.0	68.7	78.0	67.0	74.3	53.7	67.5	90.7	86.3	88.5	85.8
2	HT 1412081	56.0	72.0	67.0	76.0	66.0	74.0	55.3	66.6	90.3	85.7	88.0	85.4
3	CP.222	60.7	75.3	72.0	79.0	69.7	74.7	53.3	69.2	87.0	86.3	86.7	87.6
4	BLH 101	55.7	74.0	69.3	79.0	67.7	74.3	54.0	67.7	84.0	87.7	85.8	86.0
5	*Filler (against BH 412066)	55.3	73.3	70.0	77.0	66.7	74.7	54.3	67.3	88.0	92.0	90.0	86.5
6	BLH 102	56.3	74.0	69.0	76.0	68.0	74.3	55.3	67.6	88.7	86.7	87.7	86.3
7	HM 10(C)	56.3	74.0	61.7	78.0	66.0	74.3	54.3	66.4	86.0	87.3	86.7	85.0
8	Bio 9637 (C)	56.3	74.3	71.3	78.0	68.7	75.0	55.7	68.5	84.3	92.0	88.2	87.3
	General Mean	56.7	73.9	68.6	77.6	67.5	74.5	54.5	67.6	87.4	88.0	87.7	86.2
	CV(%)	1.3	1.4	1.1	0.0	1.5	0.9	1.1	1.1	1.4	0.9	1.1	1.2
	P-Value	0.0	0.1	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.9	0.0
	CD (5%)	1.3	1.8	1.4	0.0	1.7	1.2	1.0	1.5	2.1	1.3	6.9	1.1

TABLE NO. 6 (Contd.)

Sl	Entry Name	DAYS 50% SILK											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bhraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	PM142096M	123.0	75.7	110.0	102.9	123.0	69.0	117.7	91.0	81.3	107.7	106.7	99.5
2	HT 1412081	124.0	77.7	110.3	104.0	124.3	71.0	115.7	91.0	81.3	106.0	110.0	99.9
3	CP.222	129.3	79.0	113.7	107.3	126.3	70.0	117.7	90.3	83.3	108.3	114.0	101.4
4	BLH 101	125.0	81.0	114.0	106.7	120.0	70.0	114.3	89.3	84.0	107.3	112.7	99.7
5	*Filler (against BH 412066)	124.0	80.0	111.7	105.2	125.7	72.0	117.7	91.0	81.3	110.0	111.7	101.3
6	BLH 102	124.0	80.0	112.0	105.3	123.3	73.0	113.3	90.0	83.3	110.0	110.3	100.5
7	HM 10(C)	125.0	79.0	108.7	104.2	122.3	70.0	113.7	89.7	81.0	108.3	106.3	98.8
8	Bio 9637 (C)	126.7	81.0	113.7	107.1	123.7	72.0	118.7	92.0	83.3	108.7	113.0	101.6
	General Mean	125.1	79.2	111.8	105.4	123.6	70.9	116.1	90.5	82.4	108.3	110.6	100.3
	CV(%)	0.5	1.8	1.1	1.1	0.5	1.4	0.8	1.0	1.0	2.5	0.5	1.3
	P-Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.7	0.0	0.0
	CD (5%)	1.1	2.5	2.2	2.3	1.1	1.8	1.7	1.6	1.5	4.8	1.1	1.7

Sl	Entry Name	DAYS TO 50% SILK											
		4							5			All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean		Zone Mean
1	PM142096M	60.0	73.7	71.7	80.0	68.7	76.3	56.3	69.5	94.7	88.7	91.7	88.2
2	HT 1412081	58.0	74.3	71.0	78.0	71.7	76.0	57.3	69.5	94.3	87.7	91.0	88.4
3	CP.222	63.0	76.3	73.7	81.0	74.3	76.7	56.0	71.6	90.3	88.0	89.2	90.1
4	BLH 101	58.7	76.3	72.3	81.0	72.7	76.3	57.0	70.6	87.7	90.0	88.8	88.9
5	*Filler (against BH 412066)	58.3	75.3	74.0	79.0	71.3	76.7	57.3	70.3	91.3	94.3	92.8	89.6
6	BLH 102	59.3	75.3	73.0	78.0	71.0	76.3	58.3	70.2	92.7	88.0	90.3	89.0
7	HM 10(C)	58.0	74.3	65.0	80.0	69.3	76.3	56.3	68.5	89.3	90.7	90.0	87.5
8	Bio 9637 (C)	59.3	76.7	73.7	80.0	72.3	77.0	57.7	71.0	88.3	94.3	91.3	90.1
	General Mean	59.3	75.3	71.8	79.6	71.4	76.5	57.0	70.1	91.1	90.2	90.7	89.0
	CV(%)	1.0	1.3	1.1	0.0	1.9	0.9	1.0	1.1	1.4	1.3	1.3	1.2
	P-Value	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.9	0.0
	CD (5%)	1.0	1.7	1.4	0.0	2.3	1.2	1.0	1.5	2.2	2.1	7.5	1.1

TABLE NO. 6
(Contd.)

SI	Entry Name	DAYS TO 75% DRY HUSK										
		2			3							
		Karnal Mean	Ludhiana Mean	Zone Mean	Bahraich Mean	hubaneshw: Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	PM142096	168.3	122.7	145.5	137.3	111.0	146.7	131.3	119.3	149.7	147.3	105.8
2	HT 141208	164.7	123.0	143.8	138.1	112.0	145.7	133.0	119.7	153.7	146.0	107.9
3	CP.222	169.3	121.3	145.3	136.9	110.3	149.0	127.0	122.0	148.0	147.7	109.5
4	BLH 101	167.7	119.3	143.5	138.0	111.0	149.0	131.3	121.7	154.0	146.7	108.9
5	*Filler (aga	165.3	118.7	142.0	138.0	108.0	149.0	135.7	119.7	147.7	147.3	109.3
6	BLH 102	165.7	118.7	142.2	136.5	109.0	148.3	130.7	120.3	146.0	146.7	108.4
7	HM 10(C)	167.0	124.3	145.7	139.0	109.3	149.3	139.7	121.0	149.0	146.0	107.9
8	Bio 9637 (C	164.0	123.0	143.5	138.1	108.0	149.3	132.7	121.3	150.7	147.7	109.0
	General M	166.5	121.4	143.9	137.7	109.8	148.3	132.7	120.6	149.8	146.9	108.3
	CV(%)	0.7	1.9	1.3	1.5	0.9	0.9	2.0	0.9	2.1	0.6	0.9
	P-Value	0.0	0.1	0.5	0.5	0.0	0.0	0.0	0.0	0.1	0.2	0.4
	CD (5%)	2.0	4.0	4.9	2.3	1.8	2.3	4.6	1.8	5.6	1.6	3.4

SI	Entry Name	DAYS TO 75% DRY HUSK											
		4								5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	PM142096	155.7	114.7	106.7	118.7	89.0	116.7	95.3	119.5	99.3	112.0	124.0	127.0
2	HT 141208	157.0	114.7	106.0	116.7	106.7	117.0	96.7	116.2	97.3	108.7	124.6	123.7
3	CP.222	154.0	114.0	108.7	119.0	110.3	117.0	95.3	113.5	102.3	106.7	124.6	120.3
4	BLH 101	152.0	114.3	107.3	119.0	110.0	117.3	96.0	116.7	98.3	114.7	124.9	118.7
5	*Filler (aga	158.3	114.0	109.0	117.7	113.7	116.7	96.7	116.5	97.7	111.0	124.9	122.0
6	BLH 102	154.3	113.3	108.0	116.7	106.7	117.3	97.3	116.3	99.7	110.0	124.0	122.7
7	HM 10(C)	158.3	116.0	100.0	118.7	110.3	116.7	95.3	112.5	98.3	105.7	124.7	119.3
8	Bio 9637 (C	157.3	114.7	108.7	118.7	107.3	117.7	97.0	116.2	98.7	114.3	124.9	118.0
	General M	155.9	114.5	106.8	118.1	106.8	117.0	96.2	115.9	99.0	110.4	124.6	121.5
	CV(%)	1.9	1.6	0.7	0.5	0.8	0.7	0.8	1.4	0.8	1.3	1.3	1.4
	P-Value	0.2	0.8	0.0	0.0	0.0	0.8	0.0	0.6	0.0	0.0	0.9	0.0
	CD (5%)	5.3	3.2	1.4	0.9	1.6	1.5	1.3	7.8	1.4	2.5	1.8	3.0

TABLE NO. 6 (Contd.)

Sl	Entry Name	PLANT HEIGHT											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	PM142096M	217.7	201.7	238.7	219.3	222.7	212.7	207.0	299.3	210.8	226.7	196.7	225.1
2	HT 1412081	200.3	191.7	234.3	208.8	208.1	201.3	199.3	284.0	199.6	225.3	175.0	213.2
3	CP.222	189.0	183.3	230.3	200.9	185.1	202.0	200.0	262.0	192.9	211.3	153.3	201.0
4	BLH 101	228.7	225.0	253.0	235.6	218.3	208.3	221.3	303.3	231.9	223.7	203.3	230.0
5	*Filler (against BH 412066)	196.7	183.3	198.7	192.9	242.9	207.0	228.7	319.0	224.7	228.7	226.7	239.7
6	BLH 102	217.3	215.0	235.0	222.4	192.6	199.0	221.3	288.0	228.7	183.7	206.7	217.1
7	HM 10(C)	194.3	186.7	230.0	203.7	204.7	197.7	209.0	269.0	207.5	214.0	190.0	213.1
8	Bio 9637 (C)	225.7	210.0	220.3	218.7	221.3	195.3	181.7	272.3	207.1	215.7	183.3	211.0
	General Mean	208.7	199.6	230.0	212.8	212.0	202.9	208.5	287.1	212.9	216.1	191.9	218.8
	CV(%)	6.4	5.7	2.9	5.1	11.5	4.5	2.2	2.9	3.3	8.1	4.0	5.7
	P-Value	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.1	0.0	0.0
	CD (5%)	23.4	20.0	11.7	15.9	42.6	15.9	8.2	14.5	12.4	30.6	13.4	12.7

Sl	Entry Name	PLANT HEIGHT											
		4							5				All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	PM142096M	178.2	237.3	215.0	186.7	218.3	253.3	197.4	212.3	275.0	201.1	238.1	220.9
2	HT 1412081	168.2	226.0	194.3	158.3	207.3	257.3	209.6	203.0	256.7	205.6	231.1	210.7
3	CP.222	157.1	206.0	178.7	151.7	197.3	252.0	175.1	188.3	203.3	197.8	200.6	196.2
4	BLH 101	181.4	247.5	225.7	188.3	226.7	258.3	222.5	221.5	281.7	206.1	243.9	229.2
5	*Filler (against BH 412066)	182.1	256.0	240.3	165.0	230.7	256.3	191.7	217.5	216.7	206.1	211.4	221.1
6	BLH 102	173.2	225.3	209.7	175.0	225.7	255.0	227.9	213.1	203.3	201.1	202.2	214.9
7	HM 10(C)	181.8	192.8	211.7	156.7	225.3	248.3	203.8	202.9	205.0	203.9	204.4	207.0
8	Bio 9637 (C)	173.5	219.3	217.0	180.0	221.7	255.3	179.8	206.7	215.0	188.3	201.7	209.6
	General Mean	174.4	226.3	211.5	170.2	219.1	254.5	201.0	208.2	232.1	201.3	216.7	213.7
	CV(%)	4.0	7.1	5.4	7.5	9.4	2.3	2.3	6.0	7.4	7.1	7.3	6.0
	P-Value	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.8	0.4	0.0
	CD (5%)	12.1	28.0	20.0	22.4	36.1	10.3	7.9	12.4	30.2	25.0	53.0	8.8

TABLE NO. 6 (Contd.)

Sl	Entry Name	EAR HEIGHT											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	PM142096M	124.3	108.3	100.3	111.0	94.0	96.7	106.3	125.0	95.4	113.0	103.3	104.8
2	HT 1412081	110.7	103.3	94.7	102.9	99.0	95.3	104.7	124.7	101.7	106.0	95.0	103.8
3	CP.222	101.0	98.3	86.7	95.3	78.3	96.0	100.0	103.3	89.3	105.3	75.0	92.5
4	BLH 101	128.3	130.0	113.7	124.0	108.1	97.0	109.7	133.7	117.7	110.7	120.0	113.8
5	*Filler (against BH 412066)	115.3	110.0	85.7	103.7	122.1	96.0	117.0	159.0	112.9	115.7	123.3	120.9
6	BLH 102	122.3	118.3	101.3	114.0	111.9	96.7	126.0	134.7	123.3	85.7	120.0	114.0
7	HM 10(C)	103.3	100.0	92.3	98.6	91.1	94.0	107.3	138.7	103.5	106.3	106.7	106.8
8	Bio 9637 (C)	130.0	126.7	98.0	118.2	103.8	96.0	97.0	121.7	105.5	111.0	98.3	104.8
	General Mean	116.9	111.9	96.6	108.5	101.0	96.0	108.5	130.1	106.2	106.7	105.2	107.7
	CV(%)	7.4	8.5	4.7	7.3	12.7	2.3	4.2	5.4	3.6	12.0	7.2	7.7
	P-Value	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.2	0.0	0.0
	CD (5%)	15.1	16.7	7.9	8.7	22.4	3.9	8.0	12.3	6.8	22.5	13.3	9.7

Sl	Entry Name	EAR HEIGHT											
		4								5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	PM142096M	81.8	126.3	96.3	128.3	105.3	112.3	99.0	107.1	131.7	97.2	114.4	107.6
2	HT 1412081	81.2	121.3	90.0	88.3	103.3	111.0	111.6	101.0	128.3	105.0	116.7	104.0
3	CP.222	75.4	103.3	85.3	78.3	104.7	116.7	81.8	92.2	123.3	98.3	110.8	94.8
4	BLH 101	99.4	136.5	115.0	106.7	117.0	110.3	114.0	114.1	118.3	104.4	111.4	115.3
5	*Filler (against BH 412066)	94.4	140.5	113.0	80.0	121.0	109.0	97.9	108.0	110.0	101.7	105.8	111.8
6	BLH 102	94.1	127.6	111.7	98.3	121.0	108.7	119.0	111.5	121.7	104.4	113.1	113.0
7	HM 10(C)	78.6	104.9	106.0	103.3	107.0	109.3	102.0	101.6	108.3	102.2	105.3	103.4
8	Bio 9637 (C)	92.5	120.7	103.7	111.7	127.3	112.0	99.0	109.6	115.0	93.9	104.4	108.6
	General Mean	87.2	122.6	102.6	99.4	113.3	111.2	103.1	105.6	119.6	100.9	110.2	107.3
	CV(%)	5.2	12.3	5.3	17.6	7.3	2.7	2.5	9.2	11.7	11.9	11.1	8.7
	P-Value	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.4	0.9	0.6	0.0
	CD (5%)	8.0	26.4	9.5	30.6	14.6	5.2	4.6	10.3	24.6	21.1	16.7	5.9

TABLE NO. 7: PERFORMANCE OF EXPERIMENTAL HYBRIDS/SINGLE CROSS/TOP CROSS & COMPOSITES AT KARNAL, LUDHIANA, PANTNAGAR, BAHAICH, BHUBANESHWAR, DHOLI, KALYANI, RANCHI, SABOUR, VARANASI, COIMBATORE, DHARWAD, KARIMNAGAR, KOLHAPUR, MANDYA, RAHURI, VAGARAI, BANSWARA & GODHRA IN TR. QPM 1-II DURING RABI (2016-17)

Sl	Entry Name	GRAIN YIELD (kg/Ha) at 15% MOISTURE																							
		2						3																	
		Karnal		Ludhiana		Pantnagar		Zone		Bahraich		Bhubaneshwar		Dholi		Kalyani		Ranchi		Sabour		Varanasi		Zone	
Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank		
1	IHQPM-0906	9342	2	6460	7	7425	6	7743	6	5687	5	6733	4	5232	7	12351	4	13563	6	1016	5	7063	6	8988	7
2	MMHQPM-6-12-13	9261	4	7495	3	7763	4	8173	2	5124	6	6715	5	6229	6	13282	3	12941	7	902	7	8295	1	9493	6
3	VEHQ-15-1	8703	5	7198	4	8307	2	8070	4	11495	1	6933	1	9545	1	5851	7	19945	1	1294	1	7467	4	9948	4
4	MMHQPM-10-11-15	9295	3	6524	6	7161	7	7660	7	6258	4	6909	2	6717	4	13857	2	16113	4	1132	3	7333	5	10186	2
5	HQPM 1(C)	10255	1	6855	5	8436	1	8515	1	-4071	7	6372	6	7023	3	9985	6	19472	2	925	6	7935	2	10157	3
6	HQPM 5 (C)	8498	6	7952	2	8048	3	8166	3	9073	3	6798	3	6462	5	10737	5	19352	3	1286	2	6286	7	9927	5
7	HQPM 7 (C)	7758	7	8138	1	7541	5	7813	5	10132	2	5466	7	8714	2	16007	1	15281	5	1111	4	7560	3	10606	1
	General Mean	9016	.	7232	.	7812	.	8020	.	6243	.	6561	.	7132	.	11724	.	16667	.	1095	.	7420	.	9901	.
	CV(%)	6	.	12	.	11	.	9	.	67	.	4	.	4	.	13	.	10	.	17	.	7	.	10	.
	P-Value	0	.	0	.	0	.	1	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	1	.
	CD (5%)	888	.	1524	.	1460	.	1267	.	7492	.	413	.	525	.	2785	.	2832	.	336	.	884	.	2979	.
	Plot Size	12		10.6		12				9.6		9.6		12		12		5.6		9.6		9.6			
	AGRONOMY DATA																								
	Sowing Date	29-11-16		2-2-17		20-12-16				3-12-16		6-12-16		30-11-16		14-12-16		3-2-17		8-12-16		2-12-16			
	Harvest Date	21-5-17		12-6-17		10-6-17				15-5-17		24-4-17		8-6-17		NA		7-6-17		31-5-17		28-4-17			
	Irrigation Nos	8		15		6				5		NA		2		5		8		6		NA			
	Fertilizer Applied N	180		50		120				150		120		150		150		140		130		150			
	Fertilizer Applied P	60		24		60				75		60		70		75		60		75		75			
	Fertilizer Applied K	60		12		40				60		60		60		75		40		50		60			

TABLE NO. 7: Contd.

Sl	Entry Name	GRAIN YIELD (kg/Ha) at 15% MOISTURE																							
		4														5						All India			
		Coimbatore		Dharwad		Karimnagar		Kolhapur		Mandya		Rahuri		Vagarai		Zone		Banswara		Godhra			Zone		
Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank		
1	IHQPM-0906	6499	6	10445	2	4858	6	6868	1	6235	7	4519	1	5725	7	6772	6	9561	4	4263	6	6912	6	7664	7
2	MMHQPM-6-12-13	7835	5	10858	1	5388	5	5589	6	8044	2	3248	3	7589	2	7550	1	10630	1	6602	2	8616	2	8407	4
3	VEHQ-15-1	7958	3	8986	3	7070	1	5606	4	7607	3	3235	4	7234	4	7410	3	9915	3	6257	5	8086	3	8411	3
4	MMHQPM-10-11-15	6370	7	8405	6	4521	7	6317	3	7056	4	2797	6	5939	6	6435	7	8980	6	4220	7	6600	7	7857	6
5	HQPM 1(C)	7915	4	7979	7	6397	3	6651	2	8409	1	2698	7	7682	1	7505	2	9132	5	6348	4	7740	4	8553	1
6	HQPM 5 (C)	8121	2	8863	4	6022	4	5603	5	6383	6	2984	5	7216	5	7035	5	8603	7	6533	3	7568	5	8217	5
7	HQPM 7 (C)	8177	1	8717	5	6433	2	4821	7	6846	5	4081	2	7294	3	7048	4	10559	2	6972	1	8766	1	8518	2
	General Mean	7554	.	9179	.	5813	.	5922	.	7226	.	3366	.	6954	.	7108	.	9626	.	5885	.	7755	.	8233	
	CV(%)	13	.	15	.	11	.	10	.	10	.	25	.	5	.	12	.	22	.	7	.	19	.	12	
	P-Value	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	1	.	0	.	0	.	0	
	CD (5%)	1787	.	2429	.	1111	.	1068	.	1289	.	1489	.	559	.	970	.	3727	.	758	.	2092	.	958	
	Plot Size	9.6		9.6		12		12		9.6		12		9.6				9.6		9.6					
	AGRONOMY DATA																								
	Sowing Date	29-12-16		5-12-16		6-12-16		19-12-16		30-11-16		16-12-16		10-1-17				30-11-16		7-12-16					
	Harvest Date	1-5-17		26-5-17		10-4-17		NA		2-5-17		3-5-17		3-5-17				15-5-17		22-4-17					
	Irrigation Nos	12		8		11		NA		12		7		11				6		7					
	Fertilizer Applied N	250		150		240		NA		150		120		250				200		120					
	Fertilizer Applied P	75		65		60		NA		75		60		75				80		60					
	Fertilizer Applied K	75		65		60		NA		40		40		75				0		0					

TABLE NO. 7 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER HQPM 1											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
1	IHQPM-0906	-8.9	-5.8	-12.0	-9.1	-239.7	5.7	-25.5	23.7	-30.4	9.9	-11.0	-11.5
2	MMHQPM-6-12-13	-9.7	9.3	-8.0	-4.0	-225.9	5.4	-11.3	33.0	-33.5	-2.4	4.5	-6.6
3	VEHQ-15-1	-15.1	5.0	-1.5	-5.2	-382.4	8.8	35.9	-41.4	2.4	40.0	-5.9	-2.1
4	MMHQPM-10-11-15	-9.4	-4.8	-15.1	-10.0	-253.7	8.4	-4.4	38.8	-17.3	22.4	-7.6	0.3
5	HQPM 1(C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	HQPM 5 (C)	-17.1	16.0	-4.6	-4.1	-322.9	6.7	-8.0	7.5	-0.6	39.1	-20.8	-2.3
7	HQPM 7 (C)	-24.4	18.7	-10.6	-8.3	-348.9	-14.2	24.1	60.3	-21.5	20.2	-4.7	4.4

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER HQPM 1											
		4								5			
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Mandya	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	All India
1	IHQPM-0906	-17.9	30.9	-24.1	3.3	-25.9	67.5	-25.5	-9.8	4.7	-32.9	-10.7	-10.4
2	MMHQPM-6-12-13	-1.0	36.1	-15.8	-16.0	-4.3	20.4	-1.2	0.6	16.4	4.0	11.3	-1.7
3	VEHQ-15-1	0.5	12.6	10.5	-15.7	-9.5	19.9	-5.8	-1.3	8.6	-1.4	4.5	-1.7
4	MMHQPM-10-11-15	-19.5	5.3	-29.3	-5.0	-16.1	3.7	-22.7	-14.3	-1.7	-33.5	-14.7	-8.1
5	HQPM 1(C)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	HQPM 5 (C)	2.6	11.1	-5.9	-15.8	-24.1	10.6	-6.1	-6.3	-5.8	2.9	-2.2	-3.9
7	HQPM 7 (C)	3.3	9.3	0.6	-27.5	-18.6	51.3	-5.1	-6.1	15.6	9.8	13.3	-0.4

TABLE NO. 7 (Contd.)

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER HQPM 5											
		2				3							
		Karnal	Ludhiana	Pantnagar	Zone Mean	Bahraich	Bhubaneshwar	Dholi	Kalyani	Ranchi	Sabour	Varanasi	Zone Mean
1	IHQPM-0906	9.9	-18.8	-7.7	-5.2	-37.3	-1.0	-19.0	15.0	-29.9	-21.0	12.4	-9.5
2	MMHQPM-6-12-13	9.0	-5.8	-3.5	0.1	-43.5	-1.2	-3.6	23.7	-33.1	-29.8	32.0	-4.4
3	VEHQ-15-1	2.4	-9.5	3.2	-1.2	26.7	2.0	47.7	-45.5	3.1	0.7	18.8	0.2
4	MMHQPM-10-11-15	9.4	-18.0	-11.0	-6.2	-31.0	1.6	3.9	29.1	-16.7	-12.0	16.7	2.6
5	HQPM 1(C)	20.7	-13.8	4.8	4.3	-144.9	-6.3	8.7	-7.0	0.6	-28.1	26.2	2.3
6	HQPM 5 (C)	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	HQPM 7 (C)	-8.7	2.3	-6.3	-4.3	11.7	-19.6	34.9	49.1	-21.0	-13.6	20.3	6.8

Sl	Entry Name	GRAIN YIELD % SUPERIORITY OVER HQPM 5											
		4								5			All India
		Coimbatore	Dharwad	Karimnagar	Kolhapur	Mandya	Rahuri	Vagarai	Zone Mean	Banswara	Godhra	Zone Mean	
1	IHQPM-0906	-20.0	17.9	-19.3	22.6	-2.3	51.5	-20.7	-3.7	11.1	-34.8	-8.7	-6.7
2	MMHQPM-6-12-13	-3.5	22.5	-10.5	-0.3	26.0	8.9	5.2	7.3	23.6	1.1	13.9	2.3
3	VEHQ-15-1	-2.0	1.4	17.4	0.1	19.2	8.4	0.3	5.3	15.3	-4.2	6.9	2.4
4	MMHQPM-10-11-15	-21.6	-5.2	-24.9	12.7	10.5	-6.3	-17.7	-8.5	4.4	-35.4	-12.8	-4.4
5	HQPM 1(C)	-2.5	-10.0	6.2	18.7	31.7	-9.6	6.5	6.7	6.2	-2.8	2.3	4.1
6	HQPM 5 (C)	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	HQPM 7 (C)	0.7	-1.6	6.8	-14.0	7.3	36.8	1.1	0.2	22.7	6.7	15.8	3.7

TABLE NO. 7 (Contd.)

Sl	Entry Name	MOISTURE % AT HARVEST											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bhraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	IHQPM-0906	26.5	13.9	21.4	20.6	24.6	19.2	20.0	18.5	22.1	29.1	28.9	30.9
2	MMHQPM-6-12-13	26.6	13.4	23.0	21.0	25.1	17.9	20.4	19.4	26.9	30.9	31.3	32.3
3	VEHQ-15-1	25.2	14.2	20.7	20.0	24.7	19.5	21.4	20.5	24.6	32.4	32.7	32.3
4	MMHQPM-10-11-15	26.4	13.9	20.1	20.1	23.1	19.9	19.5	19.7	23.0	27.9	29.8	30.8
5	HQPM 1(C)	26.4	13.8	21.0	20.4	147.5	20.0	20.3	20.5	24.4	27.9	32.9	32.7
6	HQPM 5 (C)	27.2	14.4	22.7	21.4	24.2	21.0	22.0	18.7	26.9	31.8	33.8	33.0
7	HQPM 7 (C)	27.6	13.8	20.0	20.5	26.1	21.0	21.4	18.8	27.3	31.6	32.8	32.8
	General Mean	26.6	13.9	21.2	20.6	42.2	19.8	20.7	19.4	25.0	30.2	31.7	32.1
	CV(%)	2.9	2.9	1.8	3.0	154.6	2.3	2.7	2.6	8.4	8.7	2.2	4.6
	P-Value	0.1	0.4	0.0	0.4	0.5	0.0	0.0	0.0	0.1	0.3	0.0	0.0
	CD (5%)	1.4	1.0	1.0	1.4	159.5	1.1	1.4	0.9	3.8	4.7	1.7	1.6

Sl	Entry Name	MOISTURE % AT HARVEST											
		4								5		All India Mean	
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean		Zone Mean
1	IHQPM-0906	21.8	14.3	19.9	11.8	12.6	7.7	16.3	15.0	16.1	16.5	16.3	21.7
2	MMHQPM-6-12-13	23.2	16.4	20.8	11.3	12.9	7.0	15.7	15.1	15.7	14.8	15.2	22.3
3	VEHQ-15-1	22.8	18.2	20.8	12.2	13.4	7.2	16.7	15.5	15.7	16.4	16.0	22.3
4	MMHQPM-10-11-15	23.4	15.8	20.0	12.5	13.8	6.4	15.6	15.2	15.8	14.8	15.3	21.6
5	HQPM 1(C)	21.3	16.8	22.5	13.0	13.6	6.7	16.0	15.5	15.8	16.6	16.2	22.5
6	HQPM 5 (C)	21.6	14.4	22.2	13.6	13.5	6.2	16.4	15.5	16.4	13.3	14.8	22.7
7	HQPM 7 (C)	22.7	14.0	21.9	11.6	13.4	7.4	16.0	15.5	16.2	15.0	15.6	22.5
	General Mean	22.4	15.7	21.2	12.3	13.3	6.9	16.1	15.3	15.9	15.3	15.6	22.2
	CV(%)	4.9	32.0	7.6	8.0	3.2	8.7	2.6	6.6	2.3	3.5	2.8	5.2
	P-Value	0.5	1.0	0.3	0.4	0.2	0.1	0.3	0.7	0.5	0.0	0.7	0.0
	CD (5%)	2.7	12.3	2.9	2.4	1.1	1.1	1.0	0.9	0.9	1.3	2.4	0.7

TABLE NO. 7 (Contd.)

Sl	Entry Name	SHELLING %											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	IHQPM-0906	80.7	80.9	85.0	82.2	74.1	81.6	80.0	80.3	80.0	77.3	75.1	71.5
2	MMHQPM-6-12-13	78.9	81.6	81.2	80.5	74.8	79.1	78.5	84.3	80.0	78.0	75.0	71.9
3	VEHQ-15-1	79.6	81.1	84.7	81.8	82.0	82.4	81.5	85.7	80.0	75.1	72.8	73.8
4	MMHQPM-10-11-15	79.9	82.4	85.7	82.6	72.7	81.6	81.0	82.0	80.0	72.6	77.0	71.7
5	HQPM 1(C)	80.3	82.0	81.7	81.3	78.8	78.0	80.5	82.3	80.0	78.5	73.6	71.5
6	HQPM 5 (C)	78.6	80.0	83.8	80.8	79.0	81.0	80.5	81.9	80.0	75.4	72.1	72.4
7	HQPM 7 (C)	80.4	79.0	74.9	78.1	80.3	80.6	78.0	85.3	80.0	75.5	73.1	72.7
	General Mean	79.8	81.0	82.4	81.0	77.4	80.6	80.0	83.1	80.0	76.1	74.1	72.2
	CV(%)	0.9	1.4	0.8	1.1	1.2	0.9	2.2	7.2	0.0	3.9	1.0	3.4
	P-Value	0.0	0.0	0.0	0.3	0.0	0.0	0.4	1.0	.	0.5	0.0	0.2
	CD (5%)	1.3	2.0	1.6	3.8	2.2	1.8	4.2	14.6	0.0	7.3	1.8	2.0

Sl	Entry Name	SHELLING %											
		4							5		All India Mean		
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean		Godhra Mean	Zone Mean
1	IHQPM-0906	81.1	80.3	73.9	79.7	79.0	54.1	76.8	73.2	81.4	75.7	78.5	74.7
2	MMHQPM-6-12-13	79.6	81.1	77.4	81.4	80.5	50.7	79.9	73.9	80.0	75.0	77.5	74.7
3	VEHQ-15-1	77.4	78.5	75.6	83.1	79.5	53.2	78.6	73.2	79.3	78.9	79.1	75.6
4	MMHQPM-10-11-15	79.7	81.7	78.0	84.2	81.0	53.1	78.3	74.6	81.1	73.5	77.3	75.3
5	HQPM 1(C)	78.0	79.1	76.0	80.6	79.0	51.9	80.0	73.1	79.5	70.5	75.0	74.2
6	HQPM 5 (C)	76.4	80.2	69.9	80.3	80.5	52.4	80.1	72.2	81.7	83.1	82.4	74.9
7	HQPM 7 (C)	76.5	79.1	73.8	80.7	78.0	55.8	78.5	72.8	80.5	83.6	82.1	74.8
	General Mean	78.4	80.0	74.9	81.4	79.6	53.0	78.9	73.3	80.5	77.2	78.8	74.9
	CV(%)	1.5	2.5	3.0	.	0.9	5.1	1.4	2.6	1.1	2.7	2.0	2.7
	P-Value	0.1	0.7	0.0	.	0.0	0.4	0.1	0.3	0.2	0.0	0.4	0.6
	CD (5%)	2.9	4.9	4.0	.	1.7	4.8	2.6	1.9	2.1	5.1	8.1	1.4

TABLE NO. 7 (Contd.)

Sl	Entry Name	STAND AT HARVEST											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	IHQPM-0906	62.5	70.8	63.1	65.4	59.4	63.5	52.5	66.7	136.3	83.3	81.9	77.7
2	MMHQPM-6-12-13	63.6	71.7	65.6	67.0	58.3	60.1	58.9	65.8	136.3	81.3	81.9	77.5
3	VEHQ-15-1	63.9	72.6	62.5	66.3	62.5	64.6	56.7	30.6	132.7	83.3	80.9	73.0
4	MMHQPM-10-11-15	62.2	72.3	55.8	63.5	64.9	62.5	51.9	52.2	131.6	81.9	79.5	74.9
5	HQPM 1(C)	63.3	74.5	61.4	66.4	61.5	62.5	54.4	61.9	133.3	83.3	76.4	76.2
6	HQPM 5 (C)	63.6	70.4	50.6	61.5	64.2	62.2	51.7	62.8	139.3	82.3	82.6	77.9
7	HQPM 7 (C)	63.3	72.6	56.1	64.0	62.2	63.5	54.7	64.4	130.4	82.3	76.4	76.3
	General Mean	63.2	72.2	59.3	64.9	61.9	62.7	54.4	57.8	134.3	82.5	80.0	76.2
	CV(%)	2.2	4.7	12.5	7.0	4.7	3.3	7.2	13.0	3.4	2.2	2.6	5.3
	P-Value	0.7	0.8	0.3	0.4	0.1	0.3	0.3	0.0	0.3	0.7	0.0	0.6
	CD (5%)	2.5	6.1	13.1	5.4	5.1	3.7	6.9	13.4	8.1	3.2	3.8	5.9

Sl	Entry Name	STAND AT HARVEST											
		4							5				
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	All India Mean
1	IHQPM-0906	64.9	56.9	60.6	63.9	70.5	53.9	59.0	61.4	74.3	74.0	74.1	69.4
2	MMHQPM-6-12-13	66.3	57.6	61.1	62.5	76.4	54.7	62.2	63.0	67.7	77.4	72.6	70.0
3	VEHQ-15-1	66.0	60.8	63.9	62.2	74.7	56.4	61.5	63.6	72.9	73.3	73.1	68.5
4	MMHQPM-10-11-15	66.0	52.4	50.8	63.3	71.2	54.7	59.7	59.7	68.8	51.0	59.9	66.0
5	HQPM 1(C)	65.6	50.4	58.1	63.6	73.6	53.3	63.2	61.1	75.7	62.5	69.1	68.4
6	HQPM 5 (C)	66.3	58.3	51.4	62.5	70.1	55.3	62.9	61.0	58.7	69.8	64.2	67.6
7	HQPM 7 (C)	67.0	58.3	51.7	61.9	71.5	54.4	64.6	61.4	73.3	69.4	71.4	68.3
	General Mean	66.0	56.4	56.8	62.9	72.6	54.7	61.9	61.6	70.2	68.2	69.2	68.3
	CV(%)	1.2	10.2	4.1	1.6	3.5	2.8	2.0	4.4	8.8	5.7	7.5	5.7
	P-Value	0.2	0.4	0.0	0.2	0.1	0.4	0.0	0.2	0.1	0.0	0.5	0.2
	CD (5%)	1.4	10.2	4.1	1.8	4.6	2.7	2.2	2.9	11.0	6.9	17.6	2.9

TABLE NO. 7 (Contd.)

Sl	Entry Name	DAYS TO 50% POLLEN SHED											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	IHQPM-0906	123.3	76.3	106.0	101.9	110.7	67.0	110.7	89.3	72.7	106.7	95.3	93.2
2	MMHQPM-6-12-13	125.7	80.3	113.7	106.6	119.7	71.0	119.3	90.0	75.3	95.7	105.0	96.6
3	VEHQ-15-1	122.7	78.7	111.7	104.3	123.7	74.0	117.0	89.3	75.0	101.3	106.0	98.1
4	MMHQPM-10-11-15	124.3	77.3	109.3	103.7	117.7	68.0	114.0	90.0	75.3	104.0	100.0	95.6
5	HQPM 1(C)	129.0	79.0	115.0	107.7	121.7	75.0	115.3	89.7	77.0	104.7	105.0	98.3
6	HQPM 5 (C)	126.0	82.7	114.0	107.6	124.7	72.0	118.7	90.7	77.7	105.7	108.7	99.7
7	HQPM 7 (C)	123.7	80.0	111.7	105.1	120.7	71.0	115.3	89.7	78.7	105.3	105.7	98.1
	General Mean	125.0	79.2	111.6	105.3	119.8	71.1	115.8	89.8	76.0	103.3	103.7	97.1
	CV(%)	0.9	0.8	1.1	1.0	0.0	1.3	0.3	0.8	2.3	4.7	0.6	2.1
	P-Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.2	0.0	0.0
	CD (5%)	2.0	1.2	2.2	2.8	0.0	1.6	0.7	1.2	3.2	8.6	1.2	3.0

Sl	Entry Name	DAYS TO 50% POLLEN SHED											
		4							5				
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	All India Mean
1	IHQPM-0906	54.0	72.0	71.3	69.0	62.0	72.3	52.0	64.7	88.0	78.0	83.0	83.0
2	MMHQPM-6-12-13	57.0	76.0	73.7	76.0	78.0	75.0	54.0	70.0	89.7	78.7	84.2	87.0
3	VEHQ-15-1	60.3	79.3	72.3	77.0	71.3	73.7	55.0	69.9	89.0	80.7	84.8	87.3
4	MMHQPM-10-11-15	57.3	74.7	73.0	76.0	68.7	74.3	53.7	68.2	89.3	83.0	86.2	85.8
5	HQPM 1(C)	60.3	78.0	74.3	77.0	71.7	72.7	55.0	69.9	89.3	78.3	83.8	87.8
6	HQPM 5 (C)	59.3	80.0	76.0	77.0	72.3	72.3	55.0	70.3	91.0	85.0	88.0	88.9
7	HQPM 7 (C)	59.3	75.3	74.3	77.0	73.0	74.7	53.0	69.5	89.3	84.3	86.8	87.5
	General Mean	58.2	76.5	73.6	75.6	71.0	73.6	54.0	68.9	89.4	81.1	85.3	86.7
	CV(%)	0.7	1.7	0.9	0.0	8.9	1.6	1.8	3.6	2.7	0.6	2.0	2.4
	P-Value	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.9	0.0	0.2	0.0
	CD (5%)	0.7	2.2	1.2	0.0	11.2	2.1	1.7	2.1	4.3	0.8	4.3	1.4

TABLE NO. 7 (Contd.)

Sl	Entry Name	DAYS TO 50% SILK											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	IHQPM-0906	126.7	75.3	109.7	103.9	113.7	70.0	112.7	92.0	77.7	111.0	100.3	96.8
2	MMHQPM-6-12-13	129.0	81.7	117.0	109.2	122.7	74.0	121.7	92.3	80.0	102.7	109.3	100.4
3	VEHQ-15-1	126.0	79.7	114.7	106.8	125.7	77.0	119.0	91.7	79.7	107.7	109.3	101.4
4	MMHQPM-10-11-15	128.0	79.0	112.3	106.4	119.7	71.0	116.0	92.3	80.0	108.7	105.0	99.0
5	HQPM 1(C)	132.0	80.3	118.0	110.1	124.0	78.0	117.3	92.0	81.3	109.3	108.3	101.5
6	HQPM 5 (C)	129.0	83.7	117.0	109.9	126.7	75.0	120.3	93.3	82.0	110.3	112.0	102.8
7	HQPM 7 (C)	126.7	81.0	115.0	107.6	123.7	74.0	117.3	91.7	82.7	110.0	110.0	101.3
	General Mean	128.2	80.1	114.8	107.7	122.3	74.1	117.8	92.2	80.5	108.5	107.8	100.5
	CV(%)	1.0	0.8	1.2	1.1	0.6	1.2	0.4	0.9	2.2	3.9	0.7	1.9
	P-Value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.3	0.0	0.0
	CD (5%)	2.3	1.1	2.5	2.7	1.3	1.6	0.8	1.5	3.1	7.6	1.3	2.6

Sl	Entry Name	DAYS TO 50% SILK											
		4								5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	IHQPM-0906	57.7	73.0	74.0	71.0	65.3	75.0	54.7	67.2	91.3	79.0	85.2	85.8
2	MMHQPM-6-12-13	61.7	79.3	77.0	78.0	73.3	76.3	56.7	71.8	93.3	80.3	86.8	89.8
3	VEHQ-15-1	64.0	82.0	75.7	79.0	74.7	75.7	57.7	72.7	92.3	82.7	87.5	90.2
4	MMHQPM-10-11-15	61.7	76.3	75.7	78.0	74.3	76.3	56.7	71.3	93.0	84.3	88.7	88.9
5	HQPM 1(C)	63.7	81.0	77.3	79.0	74.3	75.0	57.3	72.5	93.0	81.3	87.2	90.7
6	HQPM 5 (C)	63.7	83.3	78.7	79.0	76.7	75.3	58.7	73.6	94.3	86.7	90.5	91.9
7	HQPM 7 (C)	62.3	78.7	77.3	79.0	74.7	76.7	55.7	72.1	92.7	87.0	89.8	90.3
	General Mean	62.1	79.1	76.5	77.6	73.3	75.8	56.8	71.6	92.9	83.1	88.0	89.7
	CV(%)	1.8	1.6	0.7	0.0	2.0	1.4	1.4	1.4	2.8	0.6	2.1	1.7
	P-Value	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.9	0.0	0.2	0.0
	CD (5%)	2.0	2.2	0.9	0.0	2.6	1.8	1.5	1.7	4.6	0.9	4.6	1.2

TABLE NO. 7 (Contd.)

Sl	Entry Name	DAYS TO 75% DRY HUSK										
		2			3							
		Karnal Mean	Ludhiana Mean	Zone Mean	Bahraich Mean	Bhubaneswar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	IHQPM-0906	169.0	119.0	144.0	151.7	110.0	149.7	128.0	119.7	151.3	135.3	135.1
2	MMHQPM-6-12-13	170.3	120.0	145.2	158.0	111.0	153.7	133.7	123.3	142.3	142.7	137.8
3	VEHQ-15-1	170.3	120.7	145.5	156.0	118.0	153.7	136.7	121.7	148.0	143.3	139.6
4	MMHQPM-10-11-15	165.0	118.3	141.7	153.3	109.0	150.3	136.3	122.7	148.0	137.7	136.8
5	HQPM 1(C)	169.0	121.0	145.0	156.3	119.0	154.7	130.0	122.3	147.3	143.7	139.1
6	HQPM 5 (C)	167.0	123.7	145.3	160.0	118.0	154.0	128.3	123.3	151.0	143.3	139.7
7	HQPM 7 (C)	167.0	123.3	145.2	157.0	110.0	153.3	130.0	122.7	150.0	143.0	138.0
	General Mean	168.2	120.9	144.6	156.1	113.6	152.8	131.9	122.2	148.3	141.3	138.0
	CV(%)	0.6	0.9	0.7	0.9	0.8	0.5	2.0	0.7	3.0	0.7	1.5
	P-Value	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1
	CD (5%)	1.8	2.0	5.1	2.4	1.6	1.3	4.8	1.4	7.9	1.7	3.1

Sl	Entry Name	DAYS TO 75% DRY HUSK											
		4								5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	IHQPM-0906	97.7	117.7	109.0	111.0	106.7	115.7	94.3	107.4	128.7	120.7	124.7	124.2
2	MMHQPM-6-12-13	102.3	117.0	112.0	118.0	107.7	117.3	96.0	110.1	131.7	117.3	124.5	126.4
3	VEHQ-15-1	104.0	118.7	110.7	119.0	116.0	116.3	97.3	111.7	130.3	123.0	126.7	128.0
4	MMHQPM-10-11-15	102.3	117.0	110.7	118.0	107.3	117.0	95.7	109.7	128.3	116.0	122.2	125.2
5	HQPM 1(C)	103.7	118.3	112.3	119.0	113.3	118.0	96.7	111.6	132.3	114.3	123.3	127.3
6	HQPM 5 (C)	103.7	118.0	113.7	119.0	111.0	115.3	97.7	111.2	129.7	121.0	125.3	127.7
7	HQPM 7 (C)	103.7	118.0	112.3	119.0	107.3	116.7	95.3	110.3	131.7	126.0	128.8	127.0
	General Mean	102.5	117.8	111.5	117.6	109.9	116.6	96.1	110.3	130.4	119.8	125.1	126.5
	CV(%)	1.3	1.2	0.4	0.0	0.7	1.8	1.0	1.1	1.8	1.7	1.8	1.4
	P-Value	0.0	0.7	0.0	0.0	0.0	0.7	0.0	0.0	0.3	0.0	0.5	0.0
	CD (5%)	2.3	2.6	0.9	0.0	1.3	3.8	1.8	1.8	4.2	3.6	7.7	1.5

TABLE NO. 7 (Contd.)

Sl	Entry Name	PLANT HEIGHT											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bahraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	IHQPM-0906	189.3	196.7	201.0	195.7	192.5	195.7	165.0	267.7	188.3	210.7	188.3	201.2
2	MMHQPM-6-12-13	200.7	198.3	212.7	203.9	178.4	199.3	190.7	300.7	188.0	195.7	201.7	207.8
3	VEHQ-15-1	174.0	210.0	230.3	204.8	190.1	199.3	197.0	282.0	197.4	198.3	190.0	207.7
4	MMHQPM-10-11-15	202.0	200.0	215.0	205.7	193.5	209.3	184.3	296.7	200.7	200.0	196.7	211.6
5	HQPM 1(C)	214.0	208.3	229.0	217.1	196.0	200.7	189.0	296.7	198.8	203.0	191.7	210.8
6	HQPM 5 (C)	215.7	226.7	219.7	220.7	191.6	208.0	193.3	248.7	212.4	213.0	200.0	209.6
7	HQPM 7 (C)	207.7	210.0	224.7	214.1	203.9	198.0	184.0	266.0	199.4	203.3	195.0	207.1
	General Mean	200.5	207.1	218.9	208.8	192.3	201.5	186.2	279.8	197.9	203.4	194.8	208.0
	CV(%)	3.9	6.4	4.3	5.0	9.0	4.6	10.1	3.8	5.9	3.4	3.1	5.9
	P-Value	0.0	0.2	0.0	0.1	0.7	0.5	0.5	0.0	0.3	0.1	0.1	0.6
	CD (5%)	13.8	23.6	16.8	17.7	30.8	16.4	33.6	18.8	20.6	12.2	10.7	11.1

Sl	Entry Name	PLANT HEIGHT											
		4								5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	IHQPM-0906	156.9	179.7	200.0	138.3	183.0	236.7	167.4	180.3	266.7	208.9	237.8	196.5
2	MMHQPM-6-12-13	179.6	182.0	217.0	156.7	184.0	241.7	205.5	195.2	206.7	191.1	198.9	201.6
3	VEHQ-15-1	181.2	177.5	234.7	143.3	198.3	261.7	204.4	200.2	225.0	201.1	213.1	205.0
4	MMHQPM-10-11-15	155.7	188.7	217.7	153.3	189.7	261.7	202.3	195.6	266.7	203.3	235.0	207.2
5	HQPM 1(C)	169.0	174.7	223.7	150.0	184.7	243.3	206.6	193.1	211.7	200.0	205.8	204.8
6	HQPM 5 (C)	187.7	187.3	224.7	146.7	217.0	270.0	211.8	206.5	230.0	204.4	217.2	211.0
7	HQPM 7 (C)	167.2	187.3	218.0	138.3	180.3	268.3	190.6	192.9	238.3	197.8	218.1	204.1
	General Mean	171.0	182.5	219.4	146.7	191.0	254.8	198.4	194.8	235.0	201.0	218.0	204.3
	CV(%)	4.1	7.0	3.1	9.3	9.3	8.1	1.6	6.7	9.0	6.5	7.9	6.4
	P-Value	0.0	0.8	0.0	0.6	0.2	0.3	0.0	0.0	0.0	0.8	0.2	0.0
	CD (5%)	12.5	22.6	11.9	24.3	31.4	36.9	5.8	9.7	37.6	23.3	35.2	7.3

TABLE NO. 7 (Contd.)

Sl	Entry Name	EAR HEIGHT											
		2				3							
		Karnal Mean	Ludhiana Mean	Pantnagar Mean	Zone Mean	Bhraich Mean	Bhubaneshwar Mean	Dholi Mean	Kalyani Mean	Ranchi Mean	Sabour Mean	Varanasi Mean	Zone Mean
1	IHQPM-0906	74.7	118.3	87.7	93.6	99.5	95.3	97.3	115.0	101.6	113.0	83.3	100.7
2	MMHQPM-6-12-13	100.3	130.0	97.0	109.1	103.6	95.7	112.3	143.0	104.0	102.0	110.0	110.1
3	VEHQ-15-1	83.0	110.0	85.7	92.9	77.1	94.7	93.3	124.7	101.1	96.3	101.7	98.4
4	MMHQPM-10-11-15	99.7	130.0	84.3	104.7	93.5	97.7	96.0	126.0	101.7	104.7	113.3	104.7
5	HQPM 1(C)	109.0	103.3	79.3	97.2	85.4	97.0	92.0	138.0	98.5	107.0	93.3	101.6
6	HQPM 5 (C)	110.3	133.3	88.7	110.8	108.8	104.3	96.7	120.3	107.5	106.7	108.3	107.5
7	HQPM 7 (C)	104.3	115.0	90.3	103.2	93.7	95.3	90.3	107.3	101.5	104.0	96.7	98.4
	General Mean	97.3	120.0	87.6	101.6	94.5	97.1	96.9	124.9	102.3	104.8	101.0	103.1
	CV(%)	3.6	8.3	6.4	6.8	9.9	4.0	8.1	6.6	6.5	11.5	6.5	7.9
	P-Value	0.0	0.0	0.1	0.2	0.0	0.1	0.1	0.0	0.8	0.8	0.0	0.0
	CD (5%)	6.2	17.8	9.9	17.1	16.6	6.9	13.9	14.7	11.8	21.5	11.6	8.2

Sl	Entry Name	EAR HEIGHT											
		4								5			All India Mean
		Coimbatore Mean	Dharwad Mean	Karimnagar Mean	Kolhapur Mean	Mandya Mean	Rahuri Mean	Vagarai Mean	Zone Mean	Banswara Mean	Godhra Mean	Zone Mean	
1	IHQPM-0906	85.7	110.7	109.7	75.0	98.7	125.0	85.9	98.7	130.0	122.2	126.1	101.5
2	MMHQPM-6-12-13	91.2	120.7	121.3	91.7	117.7	123.3	99.9	109.4	103.3	120.0	111.7	109.8
3	VEHQ-15-1	82.1	101.0	120.7	76.7	112.0	120.0	102.1	102.1	123.3	119.4	121.4	101.3
4	MMHQPM-10-11-15	83.0	112.7	110.0	91.7	102.7	138.3	99.6	105.4	121.7	123.3	122.5	106.8
5	HQPM 1(C)	77.5	100.8	109.0	78.3	103.0	103.3	98.4	95.8	111.7	122.2	116.9	100.4
6	HQPM 5 (C)	84.0	124.7	117.0	86.7	130.0	133.3	107.8	111.9	128.3	112.2	120.3	111.0
7	HQPM 7 (C)	89.2	115.3	113.7	73.3	101.7	116.7	102.0	101.7	123.3	133.3	128.3	103.5
	General Mean	84.7	112.3	114.5	81.9	109.4	122.9	99.4	103.6	120.2	121.8	121.0	104.9
	CV(%)	5.1	7.4	5.1	16.3	9.7	12.5	2.5	9.3	9.0	12.9	10.6	8.8
	P-Value	0.0	0.0	0.1	0.4	0.0	0.2	0.0	0.0	0.1	0.8	0.5	0.0
	CD (5%)	7.7	14.8	10.4	23.7	18.8	27.3	4.4	7.2	19.3	27.9	18.8	5.0

Decoding of entries tested in Rabi 2016-17 coordinated trials

TRIAL NO. 1	:	NIVT - LATE
MATURITY	:	LATE
YEAR	:	2016-2017
SEASON	:	RABI
NO. OF ROWS	:	2
ROW LENGTH (METRE)	:	4
NO. OF REPLICATIONS	:	3
NO. OF LOCATIONS	:	20

LOCATIONS: LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, SABOUR, VARANASI, RANCHI, BHUBANESHWAR, KALYANI, KARIMNAGAR, KOLHAPUR, RAHURI, MANDYA, COIMBATORE, DHARWAD, VAGARAI, BANSWARA, GODHRA

E.No.	Entry Name	IMR Code	INSTITUTE NAME	REPLICATIONS		
				RI	R II	R III
1	JH 248	IMR101	PAU Ludhiana	1038	1070	1121
2	PM16201L	IMR102	PHI Seeds pvt.Ltd.	1005	1073	1131
3	JH 295	IMR103	PAU Ludhiana	1042	1092	1132
4	BLH 116	IMR104	BISCO BIO SCIENCES PVT.LTD.	1019	1067	1141
5	HT 16052	IMR105	Hytech Seed India Pvt.Ltd.	1031	1050	1114
6	BLH 113	IMR106	BISCO BIO SCIENCES PVT.LTD.	1004	1087	1119
7	ADV 7139	IMR107	ADVANTA INDIA LIMITED	1003	1093	1118
8	DAS-MH-903	IMR108	Dow Agro Sciences India Pvt. Ltd.	1007	1069	1110
9	Super 3366	IMR109	Super Seeds Pvt.Ltd.	1047	1082	1123
10	CMH 2829	IMR110	ROHINI SEEDS PRIVATE LIMITED	1014	1085	1143
11	ADV 7037	IMR111	ADVANTA INDIA LIMITED	1029	1074	1144
12	IH-1304	IMR112	MMRSAU Godhra	1045	1077	1104
13	KWS-8915	IMR113	KWS RESEARCH AND DEVELOPMENT PVT. L	1039	1088	1097
14	KH-2124	IMR114	KANCHAN GANGA SEED CO.PVT LTD.	1030	1068	1125
15	JH 412	IMR115	PAU Ludhiana	1016	1054	1136
16	DAS-MH-904	IMR116	Dow Agro Sciences India Pvt. Ltd.	1035	1089	1126
17	GK3209	IMR117	Ganga Kaveri seeds pvt.Ltd.	1013	1086	1138
18	Rasi 2015	IMR118	Rasi Seeds pvt.Ltd.	1012	1059	1130
19	DKC 9181(IR8494)	IMR119	Monsanto India Ltd.	1021	1053	1137
20	JH 273	IMR120	PAU Ludhiana	1032	1091	1101
21	DKC 9188(IR8737)	IMR121	Monsanto India Ltd.	1018	1058	1135
22	PM16202L	IMR122	PHI Seeds pvt.Ltd.	1011	1055	1129
23	IH-031	IMR123	MMRSAU Godhra	1044	1081	1102
24	Rasi 1107	IMR124	Rasi Seeds pvt.Ltd.	1020	1056	1128
25	PM16203L	IMR125	PHI Seeds pvt.Ltd.	1043	1061	1142
26	PM16207L	IMR126	PHI Seeds pvt.Ltd.	1010	1094	1113
27	KH-1226	IMR127	KANCHAN GANGA SEED CO.PVT LTD.	1009	1066	1116
28	Star-47	IMR128	STAR AGROTECH PVT.LTD.	1027	1078	1108
29	MM2033	IMR129	Mahindra AGRI SOLUTIONS	1033	1072	1103
30	JH 358	IMR130	PAU Ludhiana	1023	1079	1099
31	IH-0712	IMR131	MMRSAU Godhra	1024	1095	1140
32	CMH 2725	IMR132	ROHINI SEEDS PRIVATE LIMITED	1040	1064	1111

TRIAL NO. 1	:	NIVT - LATE
MATURITY	:	LATE
YEAR	:	2016-2017
SEASON	:	RABI
NO. OF ROWS	:	2
ROW LENGTH (METRE)	:	4
NO. OF REPLICATIONS	:	3
NO. OF LOCATIONS	:	20

LOCATIONS: LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, SABOUR, VARANASI, RANCHI, BHUBANESHWAR, KALYANI, KARIMNAGAR, KOLHAPUR, RAHURI, MANDYA, COIMBATORE, DHARWAD, VAGARAI, BANSWARA, GODHRA

E.No.	Entry Name	IIMR Code	INSTITUTE NAME	REPLICATIONS		
				R I	R II	R III
33	KWS-8933	IMR133	KWS RESEARCH AND DEVELOPMENT PVT. L	1002	1065	1134
34	HT 16047	IMR134	Hytech Seed India Pvt.Ltd.	1028	1060	1106
35	PM16204L	IMR135	PHI Seeds pvt.Ltd.	1026	1076	1124
36	VNR-32994	IMR136	VNR Seed Pvt.Ltd.	1037	1083	1122
37	Star-57	IMR137	STAR AGROTECH PVT.LTD.	1006	1096	1117
38	BIO 305	IMR138	BIOSEED RESEARCH INDIA	1008	1084	1109
39	REH-2014-6	IMR139	KANPUR	1025	1057	1112
40	IH-0330	IMR140	MMRSAU Godhra	1034	1051	1139
41	JH 409	IMR141	PAU Ludhiana	1048	1052	1107
42	PM16206L	IMR142	PHI Seeds pvt.Ltd.	1046	1075	1098
43	GK3208	IMR143	Ganga Kaveri seeds pvt.Ltd.	1001	1080	1105
44	PM16205L	IMR144	PHI Seeds pvt.Ltd.	1041	1090	1115
45	P3522 (C)	IMR145	PHI Seeds pvt.Ltd.	1015	1063	1100
46	Seedtech 2324 (C)	IMR146	BISCO BIO SCIENCES PVT.LTD.	1022	1071	1127
47	Buland (C)	IMR147	PAU Ludhiana	1017	1062	1133
48	Bio 9981 (C)	IMR148	BIOSEED RESEARCH INDIA	1036	1049	1120

TRIAL NO. 2	:	NIVT - Medium
MATURITY	:	Medium
YEAR	:	2016-2017
SEASON	:	RABI
NO. OF ROWS	:	2
ROW LENGTH (METRE)	:	4
NO. OF REPLICATIONS	:	3
NO. OF LOCATIONS	:	20

LOCATIONS: LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, SABOUR, VARANASI, RANCHI, BHUBANESHWAR, KALYANI, KARIMNAGAR, KOLHAPUR, RAHURI, MANDYA, COIMBATORE, DHARWAD, VAGARAI, BANSWARA, GODHRA

E.No.	Entry Name	IMR Code	INSTITUTE NAME	REPLICATIONS		
				R I	R II	R III
1	IMHBG16R-7	IMR151	IIMR-Begusarai	1166	1212	1238
2	REH-2015-2	IMR152	KANPUR	1162	1202	1237
3	100K-16	IMR153	KANCHAN GANGA SEED CO.PVT LTD.	1176	1217	1247
4	IMHBG16R-4	IMR154	IIMR-Begusarai	1160	1205	1250
5	HKH 360	IMR155	CCS HAU RRS KARNAL	1159	1207	1223
6	CP.898	IMR156	CHARIEN POKPHAND SEEDS PVT.LTD.	1172	1200	1243
7	VaMH 12013	IMR157	TNAU	1157	1186	1249
8	IMH16-14	IMR158	IIMR, NEW DELHI	1178	1197	1252
9	DKC8185(IR8332)	IMR159	Monsanto India Ltd.	1169	1210	1240
10	WH 1010	IMR160	AICMIP BANSWARA	1155	1211	1231
11	IMH16-12	IMR161	IIMR, NEW DELHI	1175	1195	1236
12	100 K-18	IMR162	KANCHAN GANGA SEED CO.PVT LTD.	1165	1214	1234
13	KH-7502	IMR163	KANCHAN GANGA SEED CO.PVT LTD.	1170	1215	1251
14	VEH-16-1	IMR164	B.H.U	1150	1187	1245
15	IMH16-13	IMR165	IIMR, NEW DELHI	1179	1204	1233
16	IMHBG16R-3	IMR166	IIMR-Begusarai	1181	1185	1248
17	IMHBG16R-2	IMR167	IIMR-Begusarai	1161	1189	1228
18	MMH15-8	IMR168	TCA Dholi	1167	1199	1224
19	IMHBG16R-9	IMR169	IIMR-Begusarai	1164	1191	1227
20	IMHBG16R-5	IMR170	IIMR-Begusarai	1180	1190	1235
21	HKH 359	IMR171	CCS HAU RRS KARNAL	1168	1183	1246
22	IMHBG16R-8	IMR172	IIMR-Begusarai	1163	1216	1225
23	MMH15-9	IMR173	TCA Dholi	1174	1198	1226
24	IMHBG16R-10	IMR174	IIMR-Begusarai	1171	1203	1221
25	AH 7005	IMR175	IARI NEW DELHI	1177	1196	1241
26	IMHBG16R-6	IMR176	IIMR-Begusarai	1173	1192	1220
27	HKH 358	IMR177	CCS HAU RRS KARNAL	1151	1193	1222
28	IMHBG16R-1	IMR178	IIMR-Begusarai	1152	1213	1229
29	REH-2014-3	IMR179	KANPUR	1156	1206	1218
30	IMH16-15	IMR180	IIMR, NEW DELHI	1158	1184	1232
31	REH-2015-1	IMR181	KANPUR	1149	1194	1239
32	HM 10 (C)	IMR182	CCS HAU RRS KARNAL	1182	1188	1244
33	DHM 117 (C)	IMR183	PJTSAU ARS Karimnagar Hyderabad	1153	1208	1242
34	Bio 9544(C)	IMR184	BIOSEED RESEARCH INDIA	1148	1209	1230
35	Bio 9637 (C)	IMR185	BIOSEED RESEARCH INDIA	1154	1201	1219

TRIAL NO. 4 : AVT I- LATE
MATURITY : LATE
YEAR : 2016-2017
SEASON : RABI
NO. OF ROWS : 4
ROW LENGTH (METRE) : 4
NO. OF REPLICATIONS : 3
NO. OF LOCATIONS : 20

LOCATIONS: LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, SABOUR, VARANASI, RANCHI, BHUBANESHWAR, KALYANI, KARIMNAGAR, KOLHAPUR, RAHURI, MANDYA, COIMBATORE, DHARWAD, VAGARAI, BANSWARA, GODHRA

E.No.	Entry Name	IIMR Code	INSTITUTE NAME	REPLICATIONS		
				R I	R II	R III
1	CP.808	IMR191	CHARIEN POKPHAND SEEDS PVT.LTD.	1255	1271	1285
2	DKC9177 (IP8572)	IMR192	Monsanto India Ltd.	1258	1277	1281
3	MM 2222	IMR193	Mahindra AGRI SOLUTIONS	1260	1276	1283
4	KMH-3981	IMR194	Kaveri Seed company limited	1261	1268	1284
5	115-08-01	IMR195	KANCHAN GANGA SEED CO.PVT LTD.	1256	1270	1287
6	DKC9170 (IQ8579)	IMR196	Monsanto India Ltd.	1266	1272	1279
7	DKC9175(IP8514)	IMR197	Monsanto India Ltd.	1263	1275	1282
8	PM15202L	IMR198	PHI Seeds pvt.Ltd.	1262	1274	1289
9	P3522 (C)	IMR199	PHI Seeds pvt.Ltd.	1265	1269	1290
10	Seedtech 2324 (C)	IMR200	BISCO BIO SCIENCES PVT.LTD.	1259	1267	1280
11	Buland (C)	IMR201	PAU Ludhiana	1257	1278	1286
12	Bio 9981 (C)	IMR202	BIOSEED RESEARCH INDIA	1264	1273	1288

TRIAL NO. 5 : AVT I-Medium
MATURITY : Medium
YEAR : 2016-2017
SEASON : RABI
NO. OF ROWS : 4
ROW LENGTH (METRE) : 4
NO. OF REPLICATIONS : 3
NO. OF LOCATIONS : 20

LOCATIONS: LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, SABOUR, VARANASI, RANCHI, BHUBANESHWAR, KALYANI, KARIMNAGAR, KOLHAPUR, RAHURI, MANDYA, COIMBATORE, DHARWAD, VAGARAI, BANSWARA, GODHRA

E.No.	Entry Name	IIMR Code	INSTITUTE NAME	REPLICATIONS		
				R I	R II	R III
1	HT 15066	IMR211	Hytech Seed India Pvt.Ltd.	1298	1307	1315
2	DKC8171(IP8204)	IMR212	Monsanto India Ltd.	1300	1306	1312
3	BLH 109	IMR213	BISCO BIO SCIENCES PVT.LTD.	1295	1305	1313
4	HM 10 (C)	IMR214	CCS HAU RRS KARNAL	1301	1302	1309
5	DHM 117 (C)	IMR215	PJTSAU ARS Karimnagar Hyderabad	1297	1303	1310
6	Bio 9544(C)	IMR216	BIOSEED RESEARCH INDIA	1299	1308	1311
7	Bio 9637(C)	IMR217	BIOSEED RESEARCH INDIA	1296	1304	1314

TRIAL NO. 7 : AVT II-LATE
MATURITY : LATE
YEAR : 2016-2017
SEASON : RABI
NO. OF ROWS : 6
ROW LENGTH (METRE) : 4
NO. OF REPLICATIONS : 3
NO. OF LOCATIONS : 20

LOCATIONS: LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, SABOUR, VARANASI,
 RANCHI, BHUBANESHWAR, KALYANI, KARIMNAGAR, KOLHAPUR, RAHURI, MANDYA,
 COIMBATORE, DHARWAD, VAGARAI, BANSWARA, GODHRA

E.No.	Entry Name	IIMR Code	INSTITUTE NAME	REPLICATIONS		
				R I	R II	R III
1	PM14205L	IMR221	PHI Seeds pvt.Ltd.	1321	1328	1338
2	NMH 1290	IMR222	NUZIVEEDU SEEDS	1323	1332	1339
3	DKC 9165(IM8119)	IMR223	Monsanto India Ltd.	1327	1329	1337
4	Rasi 394	IMR224	Rasi Seeds pvt.Ltd.	1324	1333	1335
5	Seedtech 2324 (C)	IMR225	BISCO BIO SCIENCES PVT.LTD.	1322	1330	1336
6	Buland(C)	IMR226	PAU Ludhiana	1325	1331	1340
7	Bio 9981(C)	IMR227	BIOSEED RESEARCH INDIA	1326	1334	1341

TRIAL NO. 8 : AVT II-Medium
MATURITY : MEDIUM
YEAR : 2016-2017
SEASON : RABI
NO. OF ROWS : 6
ROW LENGTH (METRE) : 4
NO. OF REPLICATIONS : 3
NO. OF LOCATIONS : 20

LOCATIONS: LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, SABOUR, VARANASI,
 RANCHI, BHUBANESHWAR, KALYANI, KARIMNAGAR, KOLHAPUR, RAHURI, MANDYA,
 COIMBATORE, DHARWAD, VAGARAI, BANSWARA, GODHRA

E.No.	Entry Name	IIMR Code	INSTITUTE NAME	REPLICATIONS		
				R I	R II	R III
1	PM142096M	IMR231	PHI Seeds pvt.Ltd.	1352	1362	1368
2	HT 1412081	IMR232	Hytech Seed India Pvt.Ltd.	1353	1363	1373
3	CP.222	IMR233	CHARIEN POKPHAND SEEDS PVT	1356	1364	1372
4	BLH 101	IMR234	BISCO BIO SCIENCES PVT.LTD.	1355	1359	1371
5	*Filler (against BH 412066)	IMR235	PJ TSAU,ARI, Hyderabad.	1351	1365	1370
6	BLH 102	IMR236	BISCO BIO SCIENCES PVT.LTD.	1358	1360	1369
7	HM 10(C)	IMR237	CCS HAU RRS KARNAL	1357	1361	1367
8	Bio 9637 (C)	IMR238	BIOSEED RESEARCH INDIA	1354	1366	1374

***No seed was received**

TR. QPM 1 : QPM I-II
MATURITY : LATE/MEDIUM
YEAR : 2016-2017
SEASON : RABI
NO. OF ROWS : 4
ROW LENGTH (METRE) : 4
NO. OF REPLICATIONS : 4
NO. OF LOCATIONS : 20

LOCATIONS: LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, SABOUR, VARANASI,
 RANCHI, BHUBANESHWAR, KALYANI, KARIMNAGAR, KOLHAPUR, RAHURI, MANDYA,
 COIMBATORE, DHARWAD, VAGARAI, BANSWARA, GODHRA

E.No.	Entry Name	IIMR Code	Tial	INSTITUTE NAME	REPLICATIONS		
					R I	R II	R III
1	IHQPM-0906	IMR241	(Tr. QPM-I)	MMRSAU Godhra	1384	1390	1396
2	MMHQPM-6-12-13	IMR242	QPM-II	TCA DHOLI	1387	1392	1395
3	VEHQ-15-1	IMR243	(Tr. QPM-II)	B.H.U	1383	1393	1397
4	MMHQPM-10-11-15	IMR244	QPM-I	TCA DHOLI	1382	1389	1399
5	HQPM 1(C)	IMR245	CHECK	CCS HAU RRS KARNAL	1381	1394	1401
6	HQPM 5 (C)	IMR246	CHECK	CCS HAU RRS KARNAL	1386	1388	1400
7	HQPM 7 (C)	IMR247	CHECK	CCS HAU RRS KARNAL	1385	1391	1398

TRIAL NO. N X G : AVT II - N X G - LATE,
MATURITY : LATE
YEAR : 2016-2017
SEASON : RABI
NO. OF LOCATIONS : 9
LOCATIONS: LUDHIANA, DELHI, BAHRAICH, DHOLI, KALYANI, KARIMNAGAR, ARBHAVI, VAGARAI, BANSWAR.

E.No.	Entry Name	IIMR Code
1	Rasi 394	IMR451
2	PM14205L	IMR452
3	DKC 9165(IM811)	IMR453
4	NMH 1290	IMR454
5	Buland(C)	IMR455
6	Seedtech 2324 (C)	IMR456
7	Bio 9981(C)	IMR457

TRIAL NO. N X G : AVT II - N X G -MEDIUM
MATURITY : MEDIUM
YEAR : 2016-2017
SEASON : RABI
NO. OF LOCATIONS : 9
LOCATIONS: LUDHIANA, DELHI, BAHRAICH, DHOLI, KALYANI, KARIMNAGAR, ARBHAVI, VAGARAI, BANSWAR.

E.No.	Entry Name	IIMR Code
1	BLH 102	IMR461
2	HT 1412081	IMR462
3	PM142096M	IMR463
4	Filler	IMR464
5	CP.222	IMR465
6	BLH 101	IMR466
8	Bio 9637 (C)	IMR467

TRIAL NO.11-IVT : PATHOLOGY-NIVT -LATE
MATURITY : NIVT-LATE
YEAR : 2016-2017
SEASON : RABI
NO. OF ROWS : 2
ROW LENGTH (METRE) : 4
NO. OF REPLICATIONS : 2
PATHOLOGY LOCATIONS : 10
LOCATIONS NAME :LUDHIANA, DHAULAKUAN, DHOLI, HYDERABAD, DHARWAD
 COIMBATORE, MANDYA, MANDYA, KARNAL, UDAIPUR

E.No.	Entry Name	IIMR Code	INSTITUTE NAME	REPLICATIONS	
				R I	R II
1	DKC 9181(IR8494)	IMR301	Monsanto India Ltd.	1038	1070
2	VNR-32994	IMR302	VNR Seed Pvt.Ltd.	1005	1073
3	Super 3366	IMR303	Super Seeds Pvt.Ltd.	1042	1092
4	JH 412	IMR304	PAU Ludhiana	1019	1067
5	Rasi 1107	IMR305	Rasi Seeds pvt.Ltd.	1031	1050
6	JH 358	IMR306	PAU Ludhiana	1004	1087
7	KH-1226	IMR307	KANCHAN GANGA SEED CO.PVT LTD.	1003	1093
8	PM16203L	IMR308	PHI Seeds pvt.Ltd.	1007	1069
9	BLH 116	IMR309	BISCO BIO SCIENCES PVT.LTD.	1047	1082
10	ADV 7037	IMR310	ADVANTA INDIA LIMITED	1014	1085
11	Star-47	IMR311	STAR AGROTECH PVT.LTD.	1029	1074
12	BLH 113	IMR312	BISCO BIO SCIENCES PVT.LTD.	1045	1077
13	PM16207L	IMR313	PHI Seeds pvt.Ltd.	1039	1088
14	DAS-MH-903	IMR314	Dow Agro Sciences India Pvt. Ltd.	1030	1068
15	JH 273	IMR315	PAU Ludhiana	1016	1054
16	PM16205L	IMR316	PHI Seeds pvt.Ltd.	1035	1089
17	KH-2124	IMR317	KANCHAN GANGA SEED CO.PVT LTD.	1013	1086
18	JH 409	IMR318	PAU Ludhiana	1012	1059
19	PM16202L	IMR319	PHI Seeds pvt.Ltd.	1021	1053
20	IH-0330	IMR320	MMRSAAU Godhra	1032	1091
21	KWS-8915	IMR321	KWS RESEARCH AND DEVELOPMENT PVT. LTD.	1018	1058
22	BIO 305	IMR322	BIOSEED RESEARCH INDIA	1011	1055
23	REH-2014-6	IMR323	KANPUR	1044	1081
24	PM16204L	IMR324	PHI Seeds pvt.Ltd.	1020	1056
25	HT 16047	IMR325	Hytech Seed India Pvt.Ltd.	1043	1061

TRIAL NO.11-IVT : PATHOLOGY-N IVT -LATE
MATURITY : NIVT-LATE
YEAR : 2016-2017
SEASON : RABI
NO. OF ROWS : 2
ROW LENGTH (METRE) : 4
NO. OF REPLICATIONS : 2
PATHOLOGY LOCATIONS : 10
LOCATIONS NAME :LUDHIANA, DHAULAKUAN, DHOLI, HYDERABAD, DHARWAD
 COIMBATORE, MANDYA, MANDYA, KARNAL, UDAIPUR

E.No.	Entry Name	IIMR Code	INSTITUTE NAME	REPLICATIONS	
				R I	R II
26	PM16201L	IMR326	PHI Seeds pvt.Ltd.	1010	1094
27	JH 248	IMR327	PAU Ludhiana	1009	1066
28	GK3208	IMR328	Ganga Kaveri seeds pvt.Ltd.	1027	1078
29	IH-031	IMR329	MMRSAU Godhra	1033	1072
30	IH-0712	IMR330	MMRSAU Godhra	1023	1079
31	HT 16052	IMR331	Hytech Seed India Pvt.Ltd.	1024	1095
32	GK3209	IMR332	Ganga Kaveri seeds pvt.Ltd.	1040	1064
33	DAS-MH-904	IMR333	Dow Agro Sciences India Pvt. Ltd.	1002	1065
34	IH-1304	IMR334	MMRSAU Godhra	1028	1060
35	DKC 9188(IR8737)	IMR335	Monsanto India Ltd.	1026	1076
36	CMH 2829	IMR336	ROHINI SEEDS PRIVATE LIMITED	1037	1083
37	Rasi 2015	IMR337	Rasi Seeds pvt.Ltd.	1006	1096
38	JH 295	IMR338	PAU Ludhiana	1008	1084
39	CMH 2725	IMR339	ROHINI SEEDS PRIVATE LIMITED	1025	1057
40	MM2033	IMR340	Mahindra AGRI SOLUTIONS	1034	1051
41	KWS-8933	IMR341	KWS RESEARCH AND DEVELOPMENT PVT. LTD.	1048	1052
42	Star-57	IMR342	STAR AGROTECH PVT.LTD.	1046	1075
43	ADV 7139	IMR343	ADVANTA INDIA LIMITED	1001	1080
44	PM16206L	IMR344	PHI Seeds pvt.Ltd.	1041	1090
45	P3522 (C)	IMR345	PHI Seeds pvt.Ltd.	1015	1063
46	Seedtech 2324 (C)	IMR346	BISCO BIO SCIENCES PVT.LTD.	1022	1071
47	Buland (C)	IMR347	PAU Ludhiana	1017	1062
48	Bio 9981 (C)	IMR348	BIOSEED RESEARCH INDIA	1036	1049

TRIAL NO.12-NIVT : PATHOLOGY- NIVT-MEDIUM
MATURITY : NIVT-MEDIUM
YEAR : 2016-2017
SEASON : RABI
NO. OF ROWS : 2
ROW LENGTH (METRE) : 4
NO. OF REPLICATIONS : 2
PATHOLOGY LOCATIONS : 10
LOCATIONS NAME :LUDHIANA, DHAULAKUAN, DHOLI, HYDERABAD, ARBHAVI
 COIMBATORE, MANDYA, MANDYA, KARNAL, UDAIPUR

E.No.	Entry Name	IIMR Code	INSTITUTE NAME	REPLICATIONS	
				R I	R II
1	IMHBG16R-5	IMR350	IIMR-Begusarai	1166	1212
2	VaMH 12013	IMR351	TNAU	1162	1202
3	HKH 358	IMR352	CCS HAU RRS KARNAL	1176	1217
4	AH 7005	IMR353	IARI NEW DELHI	1160	1205
5	KH-7502	IMR354	KANCHAN GANGA SEED CO.PVT LTD.	1159	1207
6	IMHBG16R-2	IMR355	IIMR-Begusarai	1172	1200
7	IMH16-14	IMR356	IIMR, NEW DELHI	1157	1186
8	CP.898	IMR357	CHARIEN POKPHAND SEEDS PVT.LTD.	1178	1197
9	IMHBG16R-1	IMR358	IIMR-Begusarai	1169	1210
10	HKH 360	IMR359	CCS HAU RRS KARNAL	1155	1211
11	VEH-16-1	IMR360	B.H.U	1175	1195
12	IMH16-15	IMR361	IIMR, NEW DELHI	1165	1214
13	100K-16	IMR362	KANCHAN GANGA SEED CO.PVT LTD.	1170	1215
14	REH-2015-1	IMR363	KANPUR	1150	1187
15	IMH16-13	IMR364	IIMR, NEW DELHI	1179	1204
16	IMHBG16R-10	IMR365	IIMR-Begusarai	1181	1185
17	IMHBG16R-6	IMR366	IIMR-Begusarai	1161	1189
18	HKH 359	IMR367	CCS HAU RRS KARNAL	1167	1199
19	100 K-18	IMR368	KANCHAN GANGA SEED CO.PVT LTD.	1164	1191
20	IMHBG16R-8	IMR369	IIMR-Begusarai	1180	1190
21	DKC8185(IR8332)	IMR370	Monsanto India Ltd.	1168	1183
22	MMH15-9	IMR371	TCA Dholi	1163	1216
23	IMHBG16R-7	IMR372	IIMR-Begusarai	1174	1198
24	IMH16-12	IMR373	IIMR, NEW DELHI	1171	1203
25	MMH15-8	IMR374	TCA Dholi	1177	1196
26	IMHBG16R-9	IMR375	IIMR-Begusarai	1173	1192
27	REH-2015-2	IMR376	KANPUR	1151	1193
28	REH-2014-3	IMR377	KANPUR	1152	1213
29	IMHBG16R-3	IMR378	IIMR-Begusarai	1156	1206
30	WH 1010	IMR379	AICMIP BANSWARA	1158	1184
31	IMHBG16R-4	IMR380	IIMR-Begusarai	1149	1194
32	Bio 9544(C)	IMR381	BIOSEED RESEARCH INDIA	1182	1188
33	DHM 117 (C)	IMR382	PJTSAU ARS Karimnagar Hyderabad	1153	1208
34	HM 10 (C)	IMR383	CCS HAU RRS KARNAL	1148	1209
35	Bio 9637 (C)	IMR384	BIOSEED RESEARCH INDIA	1154	1201

TRIAL NO.13-AVT-I-II : PATHO-ENTO- AVTI-II LATE
MATURITY : AVTI-II LATE
YEAR : 2016-2017
SEASON : RABI
NO. OF ROWS : 2
ROW LENGTH (METRE) : 4
NO. OF REPLICATIONS : 2
PATHOLOGY LOCATIONS : 10 (PATHO)+ 2(ENTO)=12
LOCATIONS NAME (PATHO) :LUDHIANA, DHAULAKUAN, DHOLI, HYDERABAD, ARBHAVI
 COIMBATORE, MANDYA, MANDYA, KARNAL, UDAIPUR

ENTOMOLOGY :HYDERABAD, KOLHAPUR

E.No.	Entry Name	IMR Code	INSTITUTE NAME	REPLICATIONS	
				RI	R II
AVT-I LATE					
1	KMH-3981	IMR385	Kaveri Seed company limited	1417	1437
2	DKC9177 (IP8572)	IMR386	Monsanto India Ltd.	1419	1427
3	DKC9170 (IQ8579)	IMR387	Monsanto India Ltd.	1413	1428
4	PM15202L	IMR388	PHI Seeds pvt.Ltd.	1423	1438
5	DKC9175(IP8514)	IMR389	Monsanto India Ltd.	1425	1429
6	MM 2222	IMR390	Mahindra AGRI SOLUTIONS	1420	1433
7	115-08-01	IMR391	KANCHAN GANGA SEED CO.PVT LTD.	1424	1441
8	CP.808	IMR392	CHARIEN POKPHAND SEEDS PVT.LTD.	1412	1434
AVT-II-LATE					
9	DKC 9165(IM8119)	IMR393	Monsanto India Ltd.	1416	1435
10	PM14205L	IMR394	PHI Seeds pvt.Ltd.	1418	1431
11	NMH 1290	IMR395	NUZIVEEDU SEEDS	1426	1432
12	Rasi 394	IMR396	Rasi Seeds pvt.Ltd.	1414	1440
13	Seedtech 2324 (C)	IMR397	BISCO BIO SCIENCES PVT.LTD.	1421	1442
14	Buland(C)	IMR398	PAU Ludhiana	1422	1430
15	Bio 9981(C)	IMR399	BIOSEED RESEARCH INDIA	1411	1439
16	P3522 (C)	IMR400	PHI Seeds pvt.Ltd.	1415	1436

TRIAL NO.14-AVT-I-II : PATHO-ENTO-AVTI-II MEDIUM-QPM
MATURITY : AVTI-II MEDIUM-QPM
YEAR : 2016-2017
SEASON : RABI
NO. OF ROWS : 2
ROW LENGTH (METRE) : 4
NO. OF REPLICATIONS : 2
PATHOLOGY LOCATIONS : 10 (PATHO)+ 2(ENTO)=12
LOCATIONS NAME :LUDHIANA, DHAULAKUAN, DHOLI, HYDERABAD, ARBHAVI
 COIMBATORE, MANDYA, MANDYA, KARNAL, UDAIPUR

ENTOMOLOGY :HYDERABAD, KOLHAPUR

E.No.	Entry Name	IMR Code	INSTITUTE NAME	REPLICATIONS	
				R I	R II
AVT-I-MEDIUM					
1	DKC8171(IP8204)	IMR411	Monsanto India Ltd.	1464	1477
2	BLH 109	IMR412	BISCO BIO SCIENCES PVT.LTD.	1463	1474
3	HT 15066	IMR413	Hytech Seed India Pvt.Ltd.	1454	1486
AVT-II MEDIUM					
4	CP.222	IMR414	CHARIEN POKPHAND SEEDS PVT.LTD.	1453	1484
5	BLH 101	IMR415	BISCO BIO SCIENCES PVT.LTD.	1456	1482
6	PM142096M	IMR416	PHI Seeds Pvt.Ltd.	1461	1476
7	HT 1412081	IMR417	Hytech Seed India Pvt.Ltd.	1470	1475
8	*Filler (against BH 412066)	IMR418	PJTSAU ARI Hyderabad	1465	1490
9	BLH 102	IMR419	BISCO BIO SCIENCES PVT.LTD.	1458	1478
10	HM 10 (C)	IMR420	CCS HAU RRS KARNAL	1451	1479
11	DHM 117 (C)	IMR421	PJTSAU ARS Karimnagar	1469	1487
12	Bio 9544(C)	IMR422	BIOSEED RESEARCH INDIA	1459	1471
13	Bio 9637(C)	IMR423	BIOSEED RESEARCH INDIA	1466	1472
QPM-I-II					
14	IHQPM-0906	IMR424	MMRSAU Godhra	1468	1473
15	MMHQPM-6-12-13	IMR425	TCA DHOLI	1457	1483
16	VEHQ-15-1	IMR426	B.H.U	1460	1489
17	MMHQPM-10-11-15	IMR427	TCA DHOLI	1455	1480
18	HQPM 1(C)	IMR428	CCS HAU RRS KARNAL	1467	1481
19	HQPM 5 (C)	IMR429	CCS HAU RRS KARNAL	1462	1485
20	HQPM 7 (C)	IMR430	CCS HAU RRS KARNAL	1452	1488

TRIAL NO.AVT-II-2015-16 : PATHOLOGY- AVT-II LATE (PREVIOUS YEARS)
MATURITY : AVT-II LATE
YEAR : **RABI 2014-2016**
SEASON : RABI
NO. OF ROWS : 2
ROW LENGTH (METRE) : 4
NO. OF REPLICATIONS : 2
PATHOLOGY LOCATIONS : 1
LOCATIONS NAME :UDAIPUR

E.N.	HYBRID NAME	IIMR CODE	R1	R2
1	HTMH 5108	IMR481	1610	1638
2	HTMH 5202	IMR482	1604	1624
3	GK3118	IMR483	1618	1623
4	KMH-1411	IMR484	1619	1635
5	IM8222/DKC9161	IMR485	1620	1625
6	Rasi 393	IMR486	1612	1633
7	Rasi 864	IMR487	1607	1629
8	GK3155	IMR488	1621	1636
9	KH 2192	IMR489	1603	1637
10	DMRH1308	IMR490	1614	1634
11	KH 3021	IMR491	1611	1628
12	KMH-2589	IMR492	1601	1622
13	IL8534	IMR493	1617	1639
14	DKC9120	IMR494	1613	1631
15	Rasi 950	IMR495	1602	1632
16	Bisco X 6573	IMR496	1616	1641
17	GK3150	IMR497	1615	1630
18	Seedtech 2324 (C)	IMR498	1608	1642
19	Buland(C)	IMR499	1606	1640
20	Bio 9981(C)	IMR500	1609	1626
21	P3522 (C)	IMR501	1605	1627

TRIAL NO.AVT-II-2015-16 : PATHOLOGY- AVT-II MEDIUM (PREVIOUS YEARS)
MATURITY : AVT-II MEDIUM
YEAR : **RABI 2014-2016**
SEASON : RABI
NO. OF ROWS : 2
ROW LENGTH (METRE) : 4
NO. OF REPLICATIONS : 2
PATHOLOGY LOCATIONS : 1
LOCATIONS NAME :UDAIPUR

E.N	HYBRID NAME	IIMR CODE	R1	R2
1	KH 517	IMR511	1653	1659
2	BL 798	IMR512	1658	1666
3	BL 900	IMR513	1655	1664
4	BL 147	IMR514	1657	1662
5	DMRH1301	IMR515	1654	1660
6	DHM 117 (C)	IMR516	1652	1661
7	Bio 9544(C)	IMR517	1651	1665
8	Bio 9637(C)	IMR518	1656	1663

AGRONOMY

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Crop Production

Summary

The major agronomic research areas during rabi 2016-17 were nutrient application and planting density optimization of pre-released maize hybrids, site specific nutrient management (SSNM) for tillage systems, planting density and nutrient management optimization for released maize hybrids, optimization of rabi zero-till maize practices, weed management in maize systems and organic manuring for maize production.

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

A total of **09** pre-release late and medium maturity hybrids of different maturity groups under AHT-2 were evaluated with **04** national checks under two densities (Normal and High) and two nutrient levels (N:P₂O₅:K₂O kg/ha) i.e. with 200:65:80, 250:80:100 nutrient levels in four maize growing zones of the country. In medium maturity genotypes, higher doses of nutrient gave significantly higher grain yield at NEPZ and NWPZ over recommend doses of fertilizers. The new medium maturity genotype BLH 102, HT1412081, PM142096M, CP 222 and BLH 101 in NWPZ (Karnal & Ludhiana); BLH102, HT1412081, PM1420 and CP222 in CWZ (Banswara) out performed significantly over best check for grain yield. High-density planting of medium maturity genotype in NWPZ (Ludhiana), NEPZ (Delhi & Bahraich) and CWZ (Banswara) yielded higher over lower density.

Amongst the late maturity, genotypes tested only DKC 9165 in NWPZ (Delhi) and CWZ (Banswara) and NMH1290 in NEPZ (Kalyani) out performed significantly over best check. However, no genotype yielded significantly higher over best check (Bio 9681) in the PZ. The planting under higher density at NWPZ (Ludhiana), NEPZ (Dholi & Kalyani), PZ (Vagarai) and CZ (Banswara and Udaipur) gave significantly higher yield over normal density in late maturity genotype.

Nutrient management in maize-wheat-green gram cropping system under different tillage practices

The maximum yield and net returns of wheat found with conventional tillage alongwith either RDF or SSNM based nutrient management at Pantnagar but it was significantly higher with permanent bed alongwith with SSNM or RDF based nutrient management at Dholi. However, at Pantnagar the adoption of either zero tillage (ZT) or CT alongwith SSNM or RDF gave highest system productivity of maize-wheat-cowpea sequence, system net returns and BC ratio that show that ZT and SSNM could be alternative for CT and RDF, respectively. In CWZ at Banswara, the ZT alongwith SSNM gave highest yield of wheat compared to CT and RDF, respectively.

Nutrient management in rice-maize cropping system under different tillage practices

The planting of maize under permanent bed (PB) alongwith farmers fertilizer practices (FFP) or SSNM gave significantly higher yield and net returns of maize at Dholi. However, CT and SSNM based crop management gave maximum yield and

returns at Kalyani. The growing of crops as CT in rice and ZT in maize was found significantly higher yielder and net monetary return and BC ratio of this cropping system that was statistically at par with CT in both rice and maize at Hyderabad.

Nutrient management in maize based rainfed cropping systems under different tillage practices

The crop establishment as ZT or PB gave significantly higher yield of mustard and chickpea at Delhi. However, the SSNM or RDF based nutrient application in mustard and 50% RDF application in chickpea gave significantly higher yield over other nutrient management practices. The maize following wheat yield was significantly higher with Zero tillage + mulching but no significant effect was observed for Hydrogel application at Dholi

Effect of planting density and nutrient management practices on the performance of hybrids in *Kharif* season

The STCR based nutrient application in wheat gave significantly higher yield compared to other nutrient management practices at Dholi. However, SSNM based nutrient application gave maximum net returns of maize-wheat cropping system at Pantnagar. The STCR based nutrient application gave significantly higher yield of maize-mustard cropping system at Kalyani. The application of nutrient based on RDF or STCR gave maximum net returns in maize-chickpea system at Godhra.

Effect of planting density and nutrient management practices on the performance of hybrids in *Rabi* season

Planting of Dekalb 900 hybrid at Dholi at normal density (60 cm x 20 cm) alongwith SSNM/STCR gave significantly higher yield and returns of rabi maize. At Beharaiich Pioneer 3335 hybrid planting with high density (50 cm x 20 cm) with STCR/RDF gave maximum maize yield. At Kalyani JKM502 hybrid with high density and STCR based nutrition gave significantly higher yield over other practices while at Coimbatore high density with RDF/STCR gave significantly higher yield. At Karimnagar nutrient application RDF or STCR alongwith any density or hybrid gave maximum yield. Planting of P3502 hybrid under high density alongwith either of nutrient management options gave higher yield and returns of rabi maize. Similarly at Banskara Bio-9782 under high density with STCR/SSNM based nutrient application gave significantly higher yield of rabi maize.

Optimization of nutrient and plant geometry for zero-till Rabi maize in Hyderabad

This experiment was undertaken at the farmer's field of zero-till rabi maize growing areas in Andhra Pradesh. The STCR based nutrient application gave maximum yield and net returns of zero-till maize compared to farmer practices. Similarly planting of maize at lower density of 60 cm x 20 cm gave the maximum yield at the farmers field compared to very high density planning by the growers in the region.

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

To explore the possibilities of organic maize production this long term experiment was initiated in *kharif* 2014. The highest net returns (Rs. 114659) and BC ratio (2.35) of the system was obtained in the Maize + Cowpea with FYM 10 t/ha +Azatobactor application in maize-wheat cropping system which is the treatment based only on the organic nutrient sources. This treatment was found to be statistically superior over RDF in this third year of the experimentation.

Weed management in maize system

The system productivity was found significantly higher with T2 (weed free) which was on par with T10 Atrazine (1.5 kg a.i./ha) pre-emergence fb Tembotrione (120 g a.i./ha) at 25 DAS as PoE) at Pantnagar and Dholi in maize-wheat system. However, at Banswara Tembotrione (120 g a.i./ha) at 25 DAS as PoE was found best weed management practices for rabi maize.

A-1

Table 1: Performance of pre release medium maturity genotypes in Rabi under varying planting density and nutrients levels in North West Plain Zone (NWPZ).

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)		Plants ('000/ha)		Cobs ('000/ha)
			Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Ludhiana	Ludhiana
60x20 cm (83,333 plants/ha)	200:65:80	BLH 102	11882	8228	18260	10988	81.3	82.7	82.1
		HT 1412081	10381	8685	17596	9636	82.7	82.1	80.9
		PM142096M	10765	9123	19754	10130	81.7	80.9	80.2
		Filler	8504	7031	17430	7809	81.3	82.1	80.9
		CP.222		7969		8846		80.9	80.2
		BLH 101		7494		8321		81.5	80.9
		Bio 9637 (C)	8507	7506	17679	8481	82.3	81.5	80.9
	250:80:100	BLH 102	12362	9623	19090	11068	82.0	82.1	80.2
		HT 1412081	10904	8630	18592	9926	82.7	81.5	80.2
		PM142096M	11102	9377	20584	10784	81.7	80.9	79.6
		Filler	9638	8753	19090	10068	82.3	81.5	80.2
		CP.222		8790		10111		81.5	80.2
		BLH 101		7698		9469		80.9	79.6
		Bio 9637 (C)	9184	7691	18758	8846	82.3	81.5	80.2
50x20 cm (1,00,000 plants/ha)	200:65:80	BLH 102	10134	10784	16200	12827	97.7	100.6	100.0
		HT 1412081	7269	9574	16800	11395	98.0	100.0	99.4
		PM142096M	9344	9914	19600	11790	98.7	99.3	98.6
		Filler	7235	9975	16400	11870	98.0	100.6	100.0
		CP.222		9031		10747		100.1	99.5
		BLH 101		8975		10679		99.4	99.4
		Bio 9637 (C)	6912	8957	17800	10667	99.0	100.0	99.4
	250:80:100	BLH 102	10837	10914	17800	13648	98.3	100.0	99.4
		HT 1412081	8858	9852	17500	12315	97.7	100.0	99.4
		PM142096M	9893	10278	20300	12852	98.3	97.5	96.9
		Filler	8926	10167	17500	12710	98.0	99.4	99.4
		CP.222		9599		12000		100.0	100.0
		BLH 101		9142		11481		99.6	99.0
		Bio 9637 (C)	8130	9167	18400	11457	98.3	100.0	98.8
Mean of location			9538.4	9033.1	18256.7	10747.1	90.1	90.6	89.8
60x20 cm (83,333 plants/ha)			10323	8328	18683	9606	82.0	81.5	80.5
50x20 cm (1,00,000 plants/ha)			8754	9738	17830	11888	98.2	99.8	99.2
CD at 5%			714.9	585.6	471.2	317.2	0.38	2.1	1.4
CV (%)			6.7	6.9	2.3	3.1	0.38	2.4	1.7
200:65:80			9093	8803	17752	10299	90.1	90.8	90.2
250:80:100			9984	9263	18761	11195	90.2	90.4	89.5
CD at 5%			222.1	201.2	NS	482.3	NS	NS	NS
CV (%)			3.2	3.7	9.3	7.4	1.50	1.5	2.1
BLH 102			11304	9887	17838	12133	89.8	91.4	90.4
HT 1412081			9353	9185	17622	10818	90.3	90.9	90.0
PM142096M			10276	9673	20060	11389	90.1	89.6	88.9
Filler			8576	8981	17605	10614	89.9	90.9	90.1
CP.222				8847		10426		90.6	90.0
BLH 101				8327		9988		90.3	89.7
Bio 9637 (C)			8183	8330	18159	9863	90.5	90.7	89.8
CD at 5%			476.4	355.8	922.2	647.3	NS	NS	NS
CV (%)			6.0	4.8	6.1	7.3	1.1	2.2	2.0

Cont....

A-2

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Plant height (cm)	Ear height (cm)	Days to 50% tasseling		Days to 50% silking	
			Ludhiana	Ludhiana	Karnal	Ludhiana	Karnal	Ludhiana
60x20 cm (83,333 plants/ha)	200:65:80	BLH 102	164.3	78.3	118.7	81.0	121.7	83.7
		HT 1412081	162.7	75.0	121.0	78.3	124.0	81.0
		PM142096M	155.3	67.7	117.7	77.0	120.7	79.7
		Filler	159.3	71.7	118.3	81.0	121.3	83.7
		CP.222	155.0	67.3		77.3		80.0
		BLH 101	143.7	59.3		75.3		78.0
		Bio 9637 (C)	149.7	63.3	118.7	77.0	121.7	79.7
	250:80:100	BLH 102	169.7	78.7	118.3	79.3	121.3	81.7
		HT 1412081	175.7	84.7	120.3	77.3	123.3	79.7
		PM142096M	160.3	72.7	117.3	76.7	120.0	79.0
		Filler	164.0	73.0	118.0	80.0	121.0	82.3
		CP.222	158.3	70.7		74.7		77.0
		BLH 101	149.7	72.0		75.0		77.7
		Bio 9637 (C)	156.3	62.7	118.0	76.7	120.7	79.0
50x20 cm (1,00,000 plants/ha)	200:65:80	BLH 102	170.3	79.3	120.3	81.7	123.3	84.3
		HT 1412081	177.0	86.0	123.7	80.7	126.3	83.3
		PM142096M	161.0	70.0	121.0	79.0	124.0	81.7
		Filler	166.7	75.7	122.7	84.3	125.7	87.0
		CP.222	160.3	72.7		78.0		80.7
		BLH 101	150.7	63.0		76.0		78.7
		Bio 9637 (C)	165.7	64.0	121.7	77.3	124.7	80.0
	250:80:100	BLH 102	173.7	82.7	119.3	79.7	122.3	82.0
		HT 1412081	178.3	88.3	122.7	78.7	125.7	81.0
		PM142096M	166.3	78.7	120.7	77.3	123.3	79.7
		Filler	171.7	84.0	122.0	80.7	124.7	83.0
		CP.222	161.7	77.3		76.0		78.0
		BLH 101	155.3	71.0		75.7		78.0
		Bio 9637 (C)	168.7	66.7	120.7	75.3	123.3	77.7
Mean of location			162.5	73.4	120.1	78.1	123.0	80.6
60x20 cm (83,333 plants/ha)			158.9	71.2	118.6	77.6	121.6	80.1
50x20 cm (1,00,000 plants/ha)			166.2	75.7	121.5	78.6	124.3	81.1
CD at 5%			NS	NS	0.80	NS	0.76	NS
CV (%)			7.1	15.8	0.60	1.8	0.56	1.3
200:65:80			160.1	71.0	120.4	78.9	123.3	81.5
250:80:100			165.0	75.9	119.7	77.4	122.6	79.7
CD at 5%			4.7	4.0	0.4	NS	0.3	NS
CV (%)			4.8	9.0	0.43	5.0	0.33	4.0
BLH 102			169.5	79.8	119.2	80.4	122.2	82.9
HT 1412081			173.4	83.5	121.9	78.8	124.8	81.3
PM142096M			160.8	72.3	119.2	77.5	122.0	80.0
Filler			165.4	76.1	120.3	81.5	123.2	84.0
CP.222			158.8	72.0		76.5		78.9
BLH 101			149.8	66.3		75.5		78.1
Bio 9637 (C)			160.1	64.2	119.8	76.6	122.6	79.1
CD at 5%			5.2	4.0	0.53	1.4	0.67	1.3
CV (%)			3.9	6.6	0.54	2.2	0.65	2.0

Cont....

A-3

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Net return (Rs./ha)		B:C ratio		100-seed weight (g)	Shelling (%)
			Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Karnal
60x20 cm (83,333 plants/ha)	200:65:80	BLH 102	70105	62032	1.95	1.26	32.6	88.0
		HT 1412081	50279	67430	1.68	1.37	35.0	86.2
		PM142096M	56867	73325	1.77	1.49	30.1	87.5
		Filler	30075	45193	1.41	0.92	28.4	85.4
		CP.222		57805		1.17		
		BLH 101		51416		1.04		
	Bio 9637 (C)	30105	51641	1.41	1.05	29.1	85.4	
	250:80:100	BLH 102	76069	78404	1.97	1.53	33.3	88.4
		HT 1412081	54579	65027	1.70	1.27	36.1	86.1
		PM142096M	56925	75081	1.73	1.47	31.8	86.9
		Filler	39573	66689	1.51	1.30	30.2	85.4
		CP.222		67188		1.31		
		BLH 101		52727		1.03		
		Bio 9637 (C)	34197	52398	1.44	1.02	31.3	85.6
Mean of location			40471.4	71086.1	1.53	1.40	30.7	86.2
60x20 cm (83,333 plants/ha)		49877	61882	1.66	1.23	31.8	86.5	
50x20 cm (1,00,000 plants/ha)		31065	80290	1.41	1.57	29.6	86.0	
CD at 5%		9394.3	7703.8	0.12	0.2	1.1	0.23	
CV (%)		20.9	11.5	7.2	11.6	3.2	0.24	
200:65:80		36853	68819	1.50	1.38	30.1	86.2	
250:80:100		44090	73354	1.57	1.42	31.2	86.2	
CD at 5%		2423.8	2708.9	0.03	NS	0.6	NS	
CV (%)		8.4	6.3	2.8	6.3	2.77	0.09	
BLH 102		62335	82746	1.82	1.63	31.9	87.9	
HT 1412081		37656	73092	1.50	1.44	34.7	86.3	
PM142096M		49106	79660	1.65	1.57	29.4	86.8	
Filler		28955	70362	1.38	1.39	28.4	85.1	
CP.222			68542		1.35			
BLH 101			61606		1.22			
Bio 9637 (C)		24305	61596	1.32	1.22	29.0	85.0	
CD at 5%		6053.2	4779.0	0.08	0.1	0.79	0.11	
CV (%)		18.0	8.2	6.2	8.2	3.09	0.16	

A-4

Table 2: Performance of pre release medium maturity genotypes in Rabi under varying planting density and nutrients levels North East Plain Zone (NEPZ).

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)	Cob yield (kg/ha)		Plant ('000/ha)	
			Dholi	Bahraich	Bahraich	Dholi	Dholi	Bahraich	
60x20 cm (83,333 plants/ha)	200:65:80	BLH 102	7219	5560	6627	9851	45.3	82.7	
		HT 1412081	6874	5857	6880	9489	56.9	82.8	
		PM142096M	7747	5687	6735	10694	56.1	82.8	
		Filler	6769	5782	6843	9249	56.1	82.8	
		CP.222	7666	6090	6862	10694	57.8	82.7	
		BLH 101	7263	6453	7437	10091	56.9	82.6	
		Bio 9637 (C)	7159	6865	7855	9730	47.8	82.7	
	250:80:100	BLH 102	8065	5775	6827	10934	46.9	82.8	
		HT 1412081	6981	6073	7180	9489	46.9	82.8	
		PM142096M	7921	5985	7096	10934	48.6	82.9	
		Filler	7592	6232	7337	10332	46.1	82.8	
		CP.222	7317	6480	7192	9971	57.8	82.8	
		BLH 101	8222	6765	7672	11175	56.9	82.7	
		Bio 9637 (C)	7140	7163	8153	9730	56.9	82.8	
50x20 cm (1,00,000 plants/ha)	200:65:80	BLH 102	8074	5845	7042	11175	58.6	108.6	
		HT 1412081	7749	6170	7305	10573	46.9	108.4	
		PM142096M	7398	5958	6978	10212	46.1	109.0	
		Filler	8270	6078	6982	11416	46.1	108.7	
		CP.222	7298	6450	7153	9971	47.8	107.2	
		BLH 101	8270	6838	7763	11536	45.3	108.8	
		Bio 9637 (C)	7870	7127	8302	10934	56.9	107.9	
	250:80:100	BLH 102	7779	6053	7157	10573	56.1	108.9	
		HT 1412081	8687	6358	7388	11777	56.1	108.6	
		PM142096M	7602	6357	7280	10332	57.8	109.0	
		Filler	7614	6487	7345	10511	56.9	109.5	
		CP.222	8564	6696	7350	11655	47.8	108.1	
		BLH 101	7468	7077	7937	10282	46.9	108.8	
		Bio 9637 (C)	7101	7378	8462	9777	46.9	107.9	
Mean of location			7631	6344.3	7326.3	10467	51.9	95.6	
60x20 cm (83,333 plants/ha)			7424	6198	7192	10169	52.7	82.8	
50x20 cm (1,00,000 plants/ha)			7839	6491	7460	10766	51.2	108.5	
CD at 5%			247.0	15.2	25.5	270.1	NS	0.1	
CV (%)			3.4	0.3	0.4	2.7	6.4	0.2	
200:65:80			7545	6197	7197	10401	51.8	95.5	
250:80:100			7718	6491	7455	10534	52.1	95.7	
CD at 5%			91.0	18.3	12.8	NS	NS	NS	
CV (%)			2.0	0.5	0.3	2.9	2.3	0.4	
BLH 102			7784	5808	6913	10633	51.7	95.7	
HT 1412081			7573	6115	7188	10332	51.7	95.7	
PM142096M			7667	5997	7022	10543	52.2	95.9	
Filler			7561	6145	7127	10377	51.3	95.9	
CP.222			7711	6429	7139	10573	52.8	95.2	
BLH 101			7806	6783	7702	10771	51.5	95.7	
Bio 9637 (C)			7317	7134	8193	10043	52.2	95.3	
CD at 5%			226.5	21.2	22.7	343.1	NS	0.2	
CV (%)			3.6	0.4	0.4	4.0	5.41	0.3	

Cont....

A-5

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days of 50% tasseling	Days to 50% silking	
			Dholi	Bahraich	Dholi	Bahraich	Dholi	Dholi	Bahraich
60x20 cm (83,333 plants/ha)	200:65:80	BLH 102	48.3	82.1	164.0	186.0	103.3	110.0	121.7
		HT 1412081	50.0	82.7	179.5	186.7	104.3	108.3	122.0
		PM142096M	47.5	82.7	173.9	187.7	102.7	107.7	123.3
		Filler	59.2	82.6	169.4	189.0	102.0	109.0	122.0
		CP.222	58.3	82.5	183.8	189.7	104.3	109.7	122.0
		BLH 101	58.3	82.3	165.8	187.7	105.3	109.0	121.0
		Bio 9637 (C)	60.0	82.5	180.0	192.0	103.7	110.0	120.3
	250:80:100	BLH 102	55.6	81.9	174.3	188.7	103.3	107.7	119.7
		HT 1412081	50.8	82.8	169.8	194.3	102.3	109.0	119.0
		PM142096M	51.4	82.8	184.2	195.3	104.0	110.0	119.0
		Filler	50.8	82.7	166.2	197.0	104.0	108.3	120.0
		CP.222	51.4	82.7	181.8	198.0	103.7	107.7	120.7
		BLH 101	51.7	82.7	176.1	194.3	103.0	107.7	120.3
		Bio 9637 (C)	53.9	82.7	171.6	199.0	105.7	109.0	118.3
50x20 cm (1,00,000 plants/ha)	200:65:80	BLH 102	54.4	108.0	186.0	183.0	102.3	110.0	123.3
		HT 1412081	53.9	108.1	168.0	184.7	101.3	107.7	122.3
		PM142096M	54.4	108.3	169.0	183.7	102.3	109.0	122.0
		Filler	55.3	108.6	183.4	190.0	100.7	108.0	123.7
		CP.222	51.1	107.2	165.4	188.0	100.0	109.7	124.3
		BLH 101	51.7	108.4	177.7	184.0	101.3	109.0	124.3
		Bio 9637 (C)	51.4	107.7	172.1	187.3	102.3	110.0	124.3
	250:80:100	BLH 102	51.9	108.6	167.6	191.7	102.3	107.7	122.0
		HT 1412081	52.2	108.6	182.0	195.0	101.3	109.0	121.0
		PM142096M	55.0	108.9	164.0	194.3	100.3	110.0	121.3
		Filler	55.6	109.4	179.5	195.0	102.0	108.3	121.7
		CP.222	55.0	107.8	173.9	195.0	102.0	107.7	122.7
		BLH 101	55.6	108.5	169.4	193.0	100.7	110.0	121.7
		Bio 9637 (C)	53.6	107.7	183.8	194.0	100.0	107.7	121.0
Mean of location			53.5	95.4	174.3	190.9	102.5	108.8	121.6
60x20 cm (83,333 plants/ha)			53.4	82.5	174.3	191.8	103.7	108.8	120.7
50x20 cm (1,00,000 plants/ha)			53.7	108.3	174.4	189.9	101.4	108.8	122.5
CD at 5%			NS	0.1	NS	1.1	0.27	NS	0.4
CV (%)			15.5	0.1	0.3	0.6	0.28	0.36	0.4
200:65:80			53.8	95.3	174.1	187.1	102.6	109.1	122.6
250:80:100			53.2	95.5	174.6	194.6	102.5	108.5	120.6
CD at 5%			NS	0.2	0.3	1.2	NS	NS	0.5
CV (%)			8.4	0.3	0.3	1.0	0.8	0.9	0.6
BLH 102			52.6	95.1	173.0	187.3	102.8	108.8	121.7
HT 1412081			51.7	95.5	174.8	190.2	102.3	108.5	121.1
PM142096M			52.1	95.6	172.7	190.3	102.3	109.2	121.4
Filler			55.2	95.8	174.6	192.8	102.2	108.4	121.8
CP.222			54.0	95.0	176.2	192.7	102.5	108.7	122.4
BLH 101			54.3	95.5	172.2	189.8	102.6	108.9	121.8
Bio 9637 (C)			54.7	95.2	176.8	193.1	102.9	109.2	121.0
CD at 5%			NS	0.2	1.02	1.4	NS	NS	0.7
CV (%)			9.5	0.3	0.71	0.9	1.03	0.99	0.7

Cont

A-6

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Days to maturity		Test-100 weight (g)	Net returns (Rs./ha)		B:C ratio	
			Dholi	Bahraich	Bahraich	Dholi	Bahraich	Dholi	Bahraich
60x20 cm (83,333 plants/ha)	200:65:80	BLH 102	143.0	164.3	22.2	52767	54346	1.23	2.80
		HT 1412081	140.3	163.3	22.5	48194	58744	1.12	2.95
		PM142096M	139.7	164.3	22.7	59752	65627	1.39	3.17
		Filler	141.0	163.0	22.1	46805	57657	1.09	2.91
		CP.222	141.3	162.0	22.7	58686	62001	1.37	3.05
		BLH 101	143.0	163.0	23.0	53344	67642	1.24	3.24
		Bio 9637 (C)	138.7	169.3	23.4	51961	73844	1.21	3.45
	250:80:100	BLH 102	139.7	166.7	22.6	63972	55976	1.49	2.76
		HT 1412081	138.0	166.0	22.7	49614	60502	1.16	2.90
		PM142096M	137.3	167.3	23.0	62063	59285	1.45	2.87
		Filler	141.3	165.0	22.4	57701	62870	1.35	2.98
		CP.222	138.7	165.0	22.8	54060	66211	1.26	3.08
		BLH 101	137.7	166.0	23.1	66047	70681	1.54	3.22
		Bio 9637 (C)	139.3	171.0	23.7	51719	76734	1.21	2.42
50x20 cm (1,00,000 plants/ha)	200:65:80	BLH 102	139.3	163.0	22.0	64096	58751	1.49	2.95
		HT 1412081	141.0	164.0	22.3	59782	63565	1.39	3.11
		PM142096M	142.0	166.0	22.4	55129	60270	1.29	3.00
		Filler	142.0	163.0	21.9	66686	61953	1.55	3.05
		CP.222	144.0	163.3	22.3	53812	67333	1.25	3.23
		BLH 101	140.3	168.3	22.5	66692	73375	1.55	3.43
		Bio 9637 (C)	141.3	168.3	23.2	61382	77888	1.43	3.58
	250:80:100	BLH 102	140.0	165.3	22.3	60178	60198	1.40	2.89
		HT 1412081	139.3	166.0	22.7	72209	64700	1.68	3.04
		PM142096M	143.0	168.3	22.7	57830	64564	1.35	3.03
		Filler	140.3	166.0	22.1	57999	66449	1.35	3.09
		CP.222	139.7	167.0	22.5	70577	69380	1.65	3.18
		BLH 101	141.0	170.0	22.7	56059	75300	1.31	3.37
		Bio 9637 (C)	141.3	172.7	23.5	51198	80053	1.19	3.52
Mean of location			140.5	166.0	22.6	58225.56	65567.8	1.36	3.08
60x20 cm (83,333 plants/ha)			139.9	165.5	22.8	55478	63723	1.29	2.99
50x20 cm (1,00,000 plants/ha)			141.0	166.5	22.5	60974	67413	1.42	3.18
CD at 5%			0.74	0.7	0.1	109.6		0.00	
CV (%)			0.56	0.5	0.5	0.2		0.20	
200:65:80			141.2	164.7	22.5	57078	64500	1.33	3.14
250:80:100			139.8	167.3	22.8	59373	66636	1.38	3.03
CD at 5%			0.3	0.1	0.1	40.6		0.00	
CV (%)			0.3	0.1	0.6	0.1		0.12	
BLH 102			140.5	164.8	22.3	60253	57318	1.40	2.85
HT 1412081			139.7	164.8	22.5	57450	61878	1.34	3.00
PM142096M			140.5	166.5	22.7	58694	62437	1.37	3.02
Filler			141.2	164.3	22.1	57298	62232	1.34	3.01
CP.222			140.9	164.3	22.6	59284	66231	1.38	3.14
BLH 101			140.5	166.8	22.8	60536	71750	1.41	3.32
Bio 9637 (C)			140.2	170.3	23.4	54065	77130	1.26	3.24
CD at 5%			0.82	0.8	0.1	47.67		0.00	
CV (%)			0.71	0.6	0.7	0.10		0.10	

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A-7

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	N uptake (kg/ha)	P uptake (kg/ha)	K uptake (kg/ha)	Moisture (%)
			Bahraich	Bahraich	Bahraich	Dholi
60x20 cm (83,333 plants/ha)	200:65:80	BLH 102	248.5	13.4	263.4	22.1
		HT 1412081	255.3	13.7	272.3	23.0
		PM142096M	253.0	13.5	267.6	23.0
		Filler	254.3	13.7	267.0	22.2
		CP.222	255.0	13.7	271.8	23.8
		BLH 101	269.0	14.8	272.7	23.5
		Bio 9637 (C)	277.0	15.7	259.8	21.8
	250:80:100	BLH 102	254.3	13.7	273.0	21.6
		HT 1412081	262.7	14.4	275.0	21.8
		PM142096M	258.0	14.2	271.2	23.0
		Filler	267.0	14.7	278.9	21.9
		CP.222	264.7	15.2	274.0	22.0
		BLH 101	274.0	15.3	268.3	21.8
		Bio 9637 (C)	283.3	15.3	228.3	22.0
50x20 cm (1,00,000 plants/ha)	200:65:80	BLH 102	259.0	14.5	280.9	23.2
		HT 1412081	266.7	14.6	269.6	22.1
		PM142096M	256.3	13.7	273.0	23.0
		Filler	259.0	14.4	274.8	23.0
		CP.222	261.7	14.4	273.6	22.2
		BLH 101	277.0	15.4	266.1	23.8
		Bio 9637 (C)	286.0	15.2	263.3	23.5
	250:80:100	BLH 102	261.3	14.5	277.0	21.8
		HT 1412081	268.0	14.7	272.7	21.6
		PM142096M	264.0	14.4	269.9	21.8
		Filler	266.3	14.7	272.5	23.0
		CP.222	267.0	14.7	273.6	21.9
		BLH 101	279.0	15.8	263.9	22.8
		Bio 9637 (C)	291.3	15.2	265.7	22.8
Mean of location			265.7	14.6	269.3	22.5
60x20 cm (83,333 plants/ha)			262.6	14.4	267.4	22.4
50x20 cm (1,00,000 plants/ha)			268.8	14.7	271.2	22.6
CD at 5%			0.2	0.2	NS	
CV (%)			0.1	1.5	4.2	
200:65:80			262.7	14.3	269.7	22.9
250:80:100			268.6	14.8	268.9	22.1
CD at 5%			0.3	0.1	NS	
CV (%)			0.2	1.0	4.0	
BLH 102			255.8	14.0	273.6	22.2
HT 1412081			263.2	14.3	272.4	22.1
PM142096M			257.8	14.0	270.4	22.7
Filler			261.7	14.4	273.3	22.5
CP.222			262.1	14.5	273.2	22.5
BLH 101			274.8	15.3	267.7	23.0
Bio 9637 (C)			284.4	15.3	254.3	22.5
CD at 5%			0.6	0.2	9.0	
CV (%)			0.3	1.8	4.1	

A-8

Table 3: Performance of pre release medium maturity genotypes in Rabi under varying planting density and nutrients levels in Peninsular Zone (PZ).

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)	Plants ('000/ha)		Cobs ('000/ha)	
			Coimbatore	Hyderabad	Coimbatore	Coimbatore	Hyderabad	Coimbatore	Hyderabad
60x20 cm (83,333 plants/ha)	200:65:80	BLH 102	6109	10289	9329	78.7	77.2	75.9	72.9
		HT 1412081	6234	9242	8723	78.4	77.3	74.7	73.5
		PM142096M	6421	8842	10143	79.3	74.6	76.6	70.8
		Filler	5932	9908	8627	79.0	75.5	76.2	71.7
		CP.222	6956	9508	7779	79.3	74.6	75.6	72.0
		BLH 101	4745	8309	9443	79.4	75.5	76.2	72.1
		Bio 9637 (C)	5113	9328	8231	79.0	72.8	75.0	69.6
	250:80:100	BLH 102	6387	9553	9935	78.7	77.3	75.6	73.7
		HT 1412081	6518	9938	9289	78.7	76.8	75.0	73.5
		PM142096M	6713	9375	10801	79.9	76.8	76.5	73.8
		Filler	6202	11019	9187	78.7	75.9	76.0	72.7
		CP.222	7273	10708	8284	77.5	77.2	75.6	74.3
		BLH 101	4961	9547	10056	79.3	75.9	76.3	73.5
		Bio 9637 (C)	5347	9464	8764	80.9	81.3	77.2	77.5
50x20 cm (1,00,000 plants/ha)	200:65:80	BLH 102	6643	9978	9873	93.8	87.5	90.1	84.2
		HT 1412081	6779	10197	9232	92.6	91.9	88.9	88.3
		PM142096M	6982	8864	10734	93.8	89.3	90.7	86.6
		Filler	6451	11108	9132	94.1	88.8	91.3	86.2
		CP.222	7564	11908	8231	94.4	89.7	91.0	86.1
		BLH 101	5167	9908	9993	95.1	85.3	92.0	82.6
		Bio 9637 (C)	5562	10353	8711	94.4	89.6	91.7	86.7
	250:80:100	BLH 102	6917	11597	10527	93.8	87.5	91.1	84.0
		HT 1412081	7054	11143	9851	94.1	87.5	90.7	84.5
		PM142096M	7259	8887	11432	92.3	87.5	89.5	84.7
		Filler	6718	10953	9749	96.3	87.9	93.2	85.2
		CP.222	7862	11787	8792	94.1	90.1	91.7	86.9
		BLH 101	5379	10619	10651	93.2	89.2	89.8	86.0
		Bio 9637 (C)	5791	11819	9302	94.4	87.1	91.3	83.7
Mean of location			6323	10148	9457	86.5	82.4	83.4	79.2
60x20 cm (83,333 plants/ha)			6065	9645	9185	79.1	76.3	75.9	73.0
50x20 cm (1,00,000 plants/ha)			6581	10651	9729	94.0	88.5	90.9	85.4
CD at 5%			288.4	NS	NS	3.6	2.4	0.8	2.2
CV (%)			4.9	24.3	6.4	4.4	3.1	1.0	2.9
200:65:80			6190	9839	9156	86.5	82.1	83.3	78.8
250:80:100			6456	10458	9759	86.6	82.7	83.5	79.6
CD at 5%			NS	336.2	218.0	NS	NS	NS	NS
CV (%)			7.1	5.5	3.8	4.3	6.0	1.9	5.7
BLH 102			6514	10354	9916	86.3	82.4	83.2	78.7
HT 1412081			6646	10130	9274	86.0	83.4	82.3	80.0
PM142096M			6844	8992	10778	86.3	82.1	83.3	79.0
Filler			6326	10747	9174	87.0	82.0	84.2	78.9
CP.222			7414	10978	8272	86.3	82.9	83.5	79.8
BLH 101			5063	9596	10036	86.8	81.5	83.6	78.5
Bio 9637 (C)			5453	10241	8752	87.2	82.7	83.8	79.3
CD at 5%			292.3	784.8	392.2	NS	NS	NS	NS
CV (%)			5.6	9.4	5.1	2.8	4.8	2.9	4.9

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A-9

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Plant height (cm)		Days 50% tasseling		Days 50% silking	
			Coimbatore	Hyderabad	Coimbatore	Hyderabad	Coimbatore	Hyderabad
60x20 cm (83,333 plants/ha)	200:65:80	BLH 102	233.3	228.5	48.3	66.3	50.7	68.7
		HT 1412081	226.1	208.7	47.3	66.3	49.3	69.0
		PM142096M	242.1	231.9	49.3	67.3	51.3	70.0
		Filler	225.7	197.2	48.7	67.7	50.7	70.7
		CP.222	213.4	201.1	47.3	68.7	49.7	71.3
		BLH 101	234.2	237.2	49.0	67.3	51.0	70.0
		Bio 9637 (C)	220.5	213.3	47.3	67.0	49.7	69.7
	250:80:100	BLH 102	237.8	231.7	48.3	66.0	50.3	69.0
		HT 1412081	230.6	223.3	49.0	65.3	51.0	68.3
		PM142096M	246.5	243.9	49.3	66.7	51.7	70.0
		Filler	230.3	215.3	48.3	66.3	50.3	69.3
		CP.222	218.5	213.9	48.0	68.3	50.0	70.7
		BLH 101	238.6	238.3	50.3	66.7	52.3	69.3
		Bio 9637 (C)	225.2	230.6	48.3	66.3	50.7	69.3
50x20 cm (1,00,000 plants/ha)	200:65:80	BLH 102	235.6	253.9	47.3	63.0	50.0	65.0
		HT 1412081	228.5	229.4	47.0	63.0	49.3	65.3
		PM142096M	244.1	251.7	48.3	64.3	50.3	67.0
		Filler	228.1	225.0	48.3	64.3	50.7	67.0
		CP.222	216.2	225.5	46.3	65.3	48.3	68.0
		BLH 101	236.3	245.0	48.3	63.0	50.3	66.0
		Bio 9637 (C)	223.1	233.9	46.7	62.7	48.7	65.3
	250:80:100	BLH 102	239.8	246.1	48.3	65.3	50.3	67.7
		HT 1412081	232.4	212.8	48.0	65.3	50.3	68.3
		PM142096M	248.8	237.8	49.3	44.7	51.3	68.3
		Filler	231.9	207.8	48.0	65.0	50.0	68.0
		CP.222	219.3	217.8	47.3	66.7	49.3	69.7
		BLH 101	240.7	247.8	49.3	65.7	51.7	68.3
		Bio 9637 (C)	226.5	225.9	47.7	65.3	49.7	68.3
Mean of location			231.2	227.7	48.2	65.0	50.3	68.5
60x20 cm (83,333 plants/ha)			230.2	222.5	48.5	66.9	50.6	69.7
50x20 cm (1,00,000 plants/ha)			232.2	232.9	47.9	63.1	50.0	67.3
CD at 5%			NS	0.2	NS	NS	0.6	2.3
CV (%)			5.3	0.1	3.0	8.7	1.2	3.5
200:65:80			229.1	227.3	47.8	65.5	50.0	68.1
250:80:100			233.4	228.1	48.5	64.5	50.6	68.9
CD at 5%			2.4	NS	NS	NS	0.6	NS
CV (%)			1.7	5.7	4.5	8.7	2.1	3.6
BLH 102			236.6	240.1	48.1	65.2	50.3	67.6
HT 1412081			229.4	218.6	47.8	65.0	50.0	67.8
PM142096M			245.4	241.3	49.1	60.8	51.2	68.8
Filler			229.0	211.3	48.3	65.8	50.4	68.8
CP.222			216.9	214.6	47.3	67.3	49.3	69.9
BLH 101			237.4	242.1	49.3	65.7	51.3	68.4
Bio 9637 (C)			223.8	225.9	47.5	65.3	49.7	68.2
CD at 5%			9.5	10.1	NS	NS	NS	1.2
CV (%)			5.0	5.4	4.7	10.2	4.1	2.1

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A-10

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
Coimbatore									
60x20 cm (83,333 plants/ha)	200:65:80	BLH 102	30.3	49684	1.97	14.5	14.8	17.7	35.7
		HT 1412081	27.2	50953	1.99	15.6	13.8	16.2	37.5
		PM142096M	26.9	55178	2.08	16.2	14.1	16.6	38.1
		Filler	28.3	46327	1.90	15.4	14.4	16.9	36.9
		CP.222	26.1	60839	2.19	16.4	15.2	18.9	38.3
		BLH 101	29.5	29338	1.57	14.2	13.5	16.0	35.1
	250:80:100	Bio 9637 (C)	28.8	33646	1.66	15.1	13.6	16.1	36.5
		BLH 102	30.7	52783	2.00	14.7	14.9	17.9	36.6
		HT 1412081	27.5	54097	2.02	15.9	14.1	16.5	38.1
		PM142096M	27.1	58544	2.11	16.7	14.3	16.9	38.6
		Filler	28.8	49260	1.93	15.6	14.7	17.1	37.7
		CP.222	26.2	64422	2.22	17.1	15.4	19.2	38.8
		BLH 101	29.7	31514	1.59	14.4	13.6	16.3	36.1
		Bio 9637 (C)	29.1	36012	1.68	15.4	13.8	16.3	37.3
50x20 cm (1,00,000 plants/ha)	200:65:80	BLH 102	29.7	55243	2.02	13.7	14.1	17.1	34.8
		HT 1412081	26.1	56632	2.04	14.9	13.2	15.5	36.6
		PM142096M	25.8	61184	2.13	15.7	13.5	15.9	37.1
		Filler	27.2	51617	1.95	14.7	13.7	16.3	36.1
		CP.222	24.9	67411	2.24	16.1	14.5	18.2	37.4
		BLH 101	28.4	33213	1.61	13.4	12.8	15.2	34.3
	250:80:100	Bio 9637 (C)	27.6	37861	1.69	14.4	12.9	15.3	35.8
		BLH 102	30.0	58325	2.04	14.1	14.3	17.3	35.1
		HT 1412081	26.8	59699	2.07	15.3	13.3	15.9	36.9
		PM142096M	26.5	64360	2.15	16.2	13.6	16.3	37.5
		Filler	28.0	54562	1.97	15.0	13.9	16.5	36.4
		CP.222	25.7	70765	2.27	16.7	14.8	18.4	37.8
		BLH 101	29.1	35379	1.63	13.7	12.9	15.6	34.5
		Bio 9637 (C)	28.4	40210	1.72	14.8	13.1	15.7	35.9
Mean of location			27.9	50681	1.94	15.2	14.0	16.7	36.7
60x20 cm (83,333 plants/ha)			28.3	48043	1.92	15.5	14.3	17.0	37.2
50x20 cm (1,00,000 plants/ha)			27.4	53319	1.97	14.9	13.6	16.4	36.2
CD at 5%			NS	4802.0	NS	NS	0.4	NS	NS
CV (%)			4.1	10.1	4.7	5.6	2.8	4.7	3.7
200:65:80			27.6	49223	1.93	15.0	13.9	16.6	36.4
250:80:100			28.1	52138	1.96	15.4	14.1	16.8	37.0
CD at 5%			0.4	NS	NS	0.2	0.2	NS	NS
CV (%)			2.6	13.7	6.5	2.3	2.2	8.9	7.1
BLH 102			30.2	54009	2.01	14.3	14.5	17.5	35.6
HT 1412081			26.9	55345	2.03	15.4	13.6	16.0	37.3
PM142096M			26.6	59817	2.12	16.2	13.9	16.4	37.8
Filler			28.1	50442	1.94	15.2	14.2	16.7	36.8
CP.222			25.7	65859	2.23	16.6	15.0	18.7	38.1
BLH 101			29.2	32361	1.60	13.9	13.2	15.8	35.0
Bio 9637 (C)			28.5	36932	1.69	14.9	13.4	15.9	36.4
CD at 5%			1.2	4326.0	0.08	0.6	0.5	1.4	1.6
CV (%)			5.4	10.4	5.1	4.7	4.2	10.1	5.4

A-11

Table 4: Performance of pre release medium maturity genotypes in Rabi under varying planting density and nutrients levels in Central West Zone (CWZ).

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)	Plants ('000/ha)		Cobs ('000/ha)	
			Banswara	Udaipur	Udaipur	Banswara	Udaipur	Banswara	Udaipur
60x20 cm (83,333 plants/ha)	200:65:80	BLH 102	10324			83.3		96.1	
		HT 1412081	8426	3990	6333	82.2	51.3	90.9	66.7
		PM142096M	9537	5763	8643	83.3	53.3	103.3	72.0
		Filler	8009	3507	5770	81.6	49.3	88.8	66.7
		CP.222	10509			83.3		97.4	
		Bio 9637 (C)	7361	5757	8623	81.0	50.2	81.6	71.1
	250:80:100	BLH 102	10417			82.8		96.7	
		HT 1412081	9815	4013	6417	83.3	51.8	93.9	66.0
		PM142096M	10278	6360	9017	83.3	53.3	103.7	71.3
		Filler	8796	3623	5940	82.2	49.3	89.7	66.0
		CP.222	10972			82.8		103.3	
		Bio 9637 (C)	7598	5810	8710	83.3	50.9	82.0	73.3
50x20 cm (1,00,000 plants/ha)	200:65:80	BLH 102	11162			98.9		101.5	
		HT 1412081	10003	4780	7623	98.9	58.2	96.7	66.7
		PM142096M	9746	6597	9813	98.3	61.3	105.8	72.0
		Filler	8964	4213	6920	94.4	56.0	95.4	66.7
		CP.222	11713			100.0		107.3	
		Bio 9637 (C)	8218	6513	9860	100.0	57.3	91.2	71.1
	250:80:100	BLH 102	11894			100.0		102.2	
		HT 1412081	10697	4813	7567	98.9	58.2	97.2	66.0
		PM142096M	11205	6817	10220	97.2	61.3	106.2	71.3
		Filler	9863	4310	7123	100.0	56.0	96.3	66.0
		CP.222	12283			98.9		108.2	
		Bio 9637 (C)	9032	6617	9933	100.0	57.3	97.2	72.7
Mean of location			9867.6	5217.7	8032.1	90.8	54.7	97.2	69.1
60x20 cm (83,333 plants/ha)			9337	4853	7432	82.7	51.2	94.0	69.1
50x20 cm (1,00,000 plants/ha)			10398	5583	8633	98.8	58.2	100.4	69.1
CD at 5%			507.6	NS	1023.3	2.6	6.8	NS	NS
CV (%)			5.1	11.5	10.3	2.8	10.1	9.2	5.6
200:65:80			9498	5140	7948	90.4	54.6	96.3	69.1
250:80:100			10238	5295	8116	91.1	54.8	98.1	69.1
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			13.0	8.7	7.7	1.4	6.0	4.3	5.5
BLH 102			10949			91.2		99.1	
HT 1412081			9735	4399	6985	90.8	54.9	94.6	66.3
PM142096M			10191	6384	9423	90.6	57.3	104.8	71.7
Filler			8908	3913	6438	89.6	52.7	92.5	66.3
CP.222			11369			91.2		104.1	
Bio 9637 (C)			8052	6174	9282	91.1	53.9	88.0	72.1
CD at 5%			1425.8	356.5	516.6	NS	2.5	6.4	2.9
CV (%)			17.5	8.1	7.6	1.8	5.5	7.9	5.0

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A-12

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Plant height (cm)		Days to 50% tasseling	Days 50% silking		100-seed weight (g)	Net returns (Rs/ha)	B:C ratio
			Banswara	Udaipur	Udaipur	Banswara	Udaipur	Udaipur		
60x20 cm (83,333 plants/ha)	200:65:80	BLH 102	290.0			88.0				
		HT 1412081	288.3	230.2	100.0	87.0	108.0	231.5	29871	1.23
		PM142096M	296.7	210.8	108.0	91.0	118.0	262.2	53461	2.20
		Filler	290.3	237.5	100.0	84.0	108.0	224.5	23508	0.97
		CP.222	281.7			89.3				
		Bio 9637 (C)	295.0	220.8	106.7	89.7	120.0	230.2	53361	2.19
	250:80:100	BLH 102	295.0			87.3				
		HT 1412081	290.0	233.1	99.0	86.7	108.0	235.5	28856	1.12
		PM142096M	301.7	211.8	107.0	90.3	117.0	264.5	59616	2.32
		Filler	293.3	243.9	99.0	84.0	107.0	225.0	23699	0.92
		CP.222	286.7			89.3				
		Bio 9637 (C)	296.7	222.2	110.0	89.7	119.0	233.1	52709	2.05
50x20 cm (1,00,000 plants/ha)	200:65:80	BLH 102	298.3			88.0				
		HT 1412081	298.3	235.4	100.0	87.0	108.0	230.5	40491	1.65
		PM142096M	298.3	215.3	108.0	91.0	118.0	261.3	64481	2.63
		Filler	296.7	245.1	100.0	84.0	100.0	222.2	32988	1.35
		CP.222	286.7			89.3				
		Bio 9637 (C)	298.3	224.5	106.7	89.7	120.0	230.0	63528	2.59
	250:80:100	BLH 102	301.7			88.0				
		HT 1412081	300.0	238.1	99.0	87.0	108.0	234.3	39456	1.53
		PM142096M	303.3	214.9	107.0	91.0	117.0	264.1	66149	2.56
		Filler	295.0	248.1	99.0	84.0	107.0	224.3	32972	1.27
		CP.222	295.0			89.3				
		Bio 9637 (C)	301.7	226.5	109.0	89.7	119.0	232.3	63462	2.45
Mean of location			294.9	228.6	103.6	88.1	112.6	237.9	45538.1	1.81
60x20 cm (83,333 plants/ha)			292.1	226.3	103.7	88.0	113.1	238.3	40635	1.62
50x20 cm (1,00,000 plants/ha)			297.8	231.0	103.6	88.2	112.1	237.4	50441	2.00
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			2.8	4.6	5.6	0.4	3.6	9.8	17.6	17.5
200:65:80			293.2	227.5	103.7	88.2	112.5	236.6	45211	1.85
250:80:100			296.7	229.8	103.6	88.0	112.8	239.2	45865	1.78
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			2.2	4.5	5.5	0.4	3.2	6.4	13.0	13.0
BLH 102			296.3			87.8				
HT 1412081			294.2	234.2	99.5	86.9	108.0	233.0	34669	1.38
PM142096M			300.0	213.2	107.5	90.8	117.5	263.0	60927	2.43
Filler			293.8	243.6	99.5	84.0	105.5	224.0	28292	1.13
CP.222			287.5			89.3				
Bio 9637 (C)			297.9	223.5	108.1	89.7	119.5	231.4	58265	2.32
CD at 5%			3.9	8.5	4.4	0.8	2.6	10.5	4571.0	0.18
CV (%)			1.6	4.4	5.0	1.1	2.7	5.2	11.9	12.0

A-13

Table 5: Performance of pre release late maturity genotypes in Rabi under varying planting density and nutrients levels in North West Plain Zone (NWPZ).

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	
			Ludhiana	Delhi	Ludhiana	Ludhiana	Ludhiana	Delhi
60x20 cm (83,333 plants/ha)	200:65:80	PM14205L	9815	5761	10988	82.1	81.5	46.2
		DKC 9165(IM8119)	10049	8277	11716	81.5	82.1	64.3
		NMH 1290	8778	6073	10210	80.9	81.5	59.9
		Buland(C)	8228	5105	9216	81.5	87.7	56.3
		Seedtech 2324 (C)	9210	6369	10315	80.9	82.1	59.9
		Bio 9981(C)	9062	4718	10148	80.2	81.5	46.2
	250:80:100	PM14205L	10895	5776	12531	82.1	84.0	62.1
		DKC 9165(IM8119)	10309	6879	12253	81.5	83.3	60.7
		NMH 1290	9889	5756	11370	80.9	82.7	57.1
		Buland(C)	8654	5597	9951	81.5	82.7	51.3
		Seedtech 2324 (C)	9383	3815	10790	80.9	82.7	41.9
		Bio 9981(C)	9265	3714	10660	80.9	82.7	40.4
50x20 cm (1,00,000 plants/ha)	200:65:80	PM14205L	10574	6713	12586	100.0	100.6	59.2
		DKC 9165(IM8119)	10654	7358	12679	99.4	100.0	67.9
		NMH 1290	9426	7281	11216	98.6	99.3	58.5
		Buland(C)	9617	4662	11444	99.8	100.6	41.2
		Seedtech 2324 (C)	10679	4837	12710	99.5	100.0	41.2
		Bio 9981(C)	9432	4667	11222	98.8	99.4	46.2
	250:80:100	PM14205L	11710	6234	14173	99.4	100.6	52.0
		DKC 9165(IM8119)	11111	8628	13438	99.4	100.6	67.9
		NMH 1290	11012	6553	13327	96.9	98.1	56.3
		Buland(C)	11426	6872	13827	99.0	100.0	64.3
		Seedtech 2324 (C)	12907	5164	15617	99.5	100.6	45.5
		Bio 9981(C)	11802	7015	14284	99.0	100.6	51.9
Mean of location			10162.0	5992.6	11944.7	90.2	91.5	54.1
60x20 cm (83,333 plants/ha)			9461	5653	10846	81.2	82.9	53.9
50x20 cm (1,00,000 plants/ha)			10863	6332	13044	99.1	100.0	54.3
CD at 5%			145.6	NS	397.1	3.8	2.1	NS
CV (%)			1.4	36.7	3.3	4.1	2.3	26.3
200:65:80			9627	5985	11204	90.3	91.3	53.9
250:80:100			10697	5946	12685	90.1	91.6	54.6
CD at 5%			568.9	NS	706.6	NS	NS	NS
CV (%)			8.6	13.4	9.0	1.3	4.0	15.9
PM14205L			10748	6121	12569	90.9	91.7	54.9
DKC 9165(IM8119)			10531	7785	12522	90.4	91.5	65.2
NMH 1290			9776	6416	11531	89.3	90.4	58.0
Buland(C)			9481	5559	11110	90.4	92.7	53.3
Seedtech 2324 (C)			10545	5046	12358	90.2	91.4	47.1
Bio 9981(C)			9890	5029	11579	89.7	91.0	46.2
CD at 5%			911.9	1583.6	1098.3	NS	NS	12.0
CV (%)			10.9	25.3	11.1	2.8	2.9	21.3

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A-14

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Net returns (Ra./ha)	BC ratio
			Ludhiana				
60x20 cm (83,333 plants/ha)	200:65:80	PM14205L	164.0	82.3	84.7	82656	1.68
		DKC 9165(IM8119)	152.7	83.7	85.7	85996	1.74
		NMH 1290	159.3	82.0	84.7	68863	1.40
		Buland(C)	184.3	87.3	89.3	61323	1.24
		Seedtech 2324 (C)	170.7	79.7	81.7	74522	1.51
		Bio 9981(C)	169.0	79.0	81.3	72530	1.47
	250:80:100	PM14205L	167.3	82.0	84.0	95520	1.87
		DKC 9165(IM8119)	158.7	81.7	83.7	87785	1.72
		NMH 1290	162.7	80.3	81.3	81976	1.60
		Buland(C)	187.0	82.3	84.7	65358	1.28
		Seedtech 2324 (C)	174.3	79.0	81.0	75163	1.47
		Bio 9981(C)	177.0	78.3	80.7	73587	1.44
50x20 cm (1,00,000 plants/ha)	200:65:80	PM14205L	169.3	82.3	84.7	92340	1.84
		DKC 9165(IM8119)	159.7	80.3	82.3	93421	1.86
		NMH 1290	167.0	79.7	81.7	76866	1.53
		Buland(C)	188.7	84.0	86.3	79445	1.58
		Seedtech 2324 (C)	174.7	77.7	79.7	93754	1.87
		Bio 9981(C)	177.3	78.0	80.0	76949	1.53
	250:80:100	PM14205L	170.7	84.0	86.7	105944	2.04
		DKC 9165(IM8119)	164.3	81.3	83.3	97867	1.88
		NMH 1290	170.0	80.0	82.0	96538	1.86
		Buland(C)	189.3	83.0	85.3	102115	1.97
		Seedtech 2324 (C)	177.0	80.3	82.0	122090	2.35
		Bio 9981(C)	180.7	77.3	79.3	107193	2.06
Mean of location			171.5	81.1	83.2	86241.7	1.70
60x20 cm (83,333 plants/ha)			168.9	81.5	83.6	77107	1.53
50x20 cm (1,00,000 plants/ha)			174.1	80.7	82.8	95377	1.87
CD at 5%			NS	NS	NS	1851.7	0.03
CV (%)			4.7	5.6	5.9	2.1	2.0
200:65:80			169.7	81.3	83.5	79889	1.61
250:80:100			173.3	80.8	82.8	92595	1.79
CD at 5%			NS	NS	NS	7675.6	0.15
CV (%)			4.3	4.3	4.8	13.6	13.5
PM14205L			167.8	82.7	85.0	94115	1.86
DKC 9165(IM8119)			158.8	81.8	83.8	91267	1.80
NMH 1290			164.8	80.5	82.4	81061	1.60
Buland(C)			187.3	84.2	86.4	77060	1.52
Seedtech 2324 (C)			174.2	79.2	81.1	91382	1.80
Bio 9981(C)			176.0	78.2	80.3	82564	1.63
CD at 5%			5.4	1.4	1.5	12287.0	0.24
CV (%)			3.8	2.1	2.2	17.3	17.2

A-15

Table 6: Performance of pre release late maturity genotypes in Rabi under varying planting density and nutrients levels in North East Plain Zone (NEPZ).

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	
			Dholi	Kalyani	Kalyani	Dholi	Dholi	Kalyani
60x20 cm (83,333 plants/ha)	200:65:80	NMH 1290	9287	7630	9125	12656	76.7	80.8
		Buland(C)	8621	5747	7560	11994	74.6	82.0
		Seedtech 2324 (C)	8348	6641	8617	11569	76.0	80.9
		Bio 9981(C)	9578	5642	7595	12986	76.7	81.2
	250:80:100	NMH 1290	9791	7805	9619	13411	79.3	81.2
		Buland(C)	9082	6684	8589	12703	76.0	80.8
		Seedtech 2324 (C)	8847	6779	9084	12325	77.5	81.5
		Bio 9981(C)	10084	6537	8396	13742	79.7	81.6
50x20 cm (1,00,000 plants/ha)	200:65:80	NMH 1290	9543	8314	10212	12939	93.9	98.0
		Buland(C)	8917	7240	9125	12278	92.2	96.6
		Seedtech 2324 (C)	8731	8135	10163	11853	92.1	97.3
		Bio 9981(C)	9731	8003	9897	13364	93.6	95.3
	250:80:100	NMH 1290	10222	8769	10755	13931	94.9	98.4
		Buland(C)	9587	7532	9345	13269	92.0	98.1
		Seedtech 2324 (C)	9448	8499	10310	12892	91.6	97.4
		Bio 9981(C)	10365	8322	9699	14308	94.9	97.2
Mean of location			9386	7392.5	9255.6	12889	85.1	89.3
60x20 cm (83,333 plants/ha)			9205	6683	8573	12673	77.1	81.3
50x20 cm (1,00,000 plants/ha)			9568	8102	9938	13104	93.1	97.3
CD at 5%			189.0	638.6	905.1	NS	1.22	3.7
CV (%)			1.6	7.0	7.9	10.0	1.2	3.3
200:65:80			9095	7169	9037	12455	84.5	89.0
250:80:100			9678	7616	9475	13323	85.7	89.5
CD at 5%			188.1	369.3	282.5	NS	1.1	NS
CV (%)			2.5	6.2	3.8	8.5	1.6	1.7
NMH 1290			9711	8130	9928	13234	86.2	89.6
Buland(C)			9052	6801	8655	12561	83.7	89.4
Seedtech 2324 (C)			8843	7514	9543	12160	84.3	89.3
Bio 9981(C)			9939	7126	8897	13600	86.2	88.8
CD at 5%			456.3	527.9	610.1	947.7	1.0	NS
CV (%)			5.8	8.5	7.8	8.7	1.4	2.1

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Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling		Days of maturity
			Dholi	Kalyani	Dholi	Kalyani	Dholi	Kalyani	Dholi
60x20 cm (83,333 plants/ha)	200:65:80	NMH 1290	72.1	78.0	197.5	209.7	109.3	90.3	156.7
		Buland(C)	70.8	79.4	191.2	250.7	110.3	92.3	157.7
		Seedtech 2324 (C)	70.8	78.4	186.2	250.0	108.7	86.7	156.0
		Bio 9981(C)	73.3	77.5	202.2	256.3	108.0	86.7	155.3
	250:80:100	NMH 1290	73.3	78.8	200.0	291.7	109.3	90.3	156.7
		Buland(C)	72.1	78.3	193.7	256.7	108.3	92.0	155.7
		Seedtech 2324 (C)	72.1	78.6	188.7	243.0	110.0	87.3	157.3
		Bio 9981(C)	74.6	78.7	204.7	256.0	110.0	87.7	157.3
50x20 cm (1,00,000 plants/ha)	200:65:80	NMH 1290	87.1	96.0	199.5	307.3	107.3	86.3	154.7
		Buland(C)	85.8	94.4	193.2	264.3	108.3	86.7	155.7
		Seedtech 2324 (C)	85.8	95.8	188.2	232.7	106.7	84.7	154.0
		Bio 9981(C)	88.3	95.0	204.2	273.0	106.0	86.0	153.3
	250:80:100	NMH 1290	88.3	96.8	202.0	312.3	107.3	93.3	154.7
		Buland(C)	87.1	95.4	195.7	287.0	106.3	93.0	153.7
		Seedtech 2324 (C)	87.1	95.7	190.7	304.3	108.0	85.7	155.3
		Bio 9981(C)	89.6	94.9	206.7	272.0	108.0	88.0	155.3
Mean of location			79.9	87.0	196.5	266.7	108.3	88.6	155.6
60x20 cm (83,333 plants/ha)			72.4	78.5	195.5	251.8	109.3	89.2	156.6
50x20 cm (1,00,000 plants/ha)			87.4	95.5	197.5	281.6	107.3	88.0	154.6
CD at 5%			2.71	2.3	NS	18.3	NS	0.36	NS
CV (%)			2.7	2.1	1.7	5.5	0.7	0.3	0.6
200:65:80			79.3	86.8	195.2	255.5	108.1	87.5	155.4
250:80:100			80.5	87.2	197.7	277.9	108.4	89.7	155.8
CD at 5%			NS	NS	2.1	8.0	NS	0.43	NS
CV (%)			3.8	1.4	1.3	3.7	0.7	0.6	0.5
NMH 1290			80.2	87.4	199.7	280.3	108.3	90.1	155.7
Buland(C)			79.0	86.9	193.4	264.7	108.3	91.0	155.7
Seedtech 2324 (C)			79.0	87.1	188.4	257.5	108.3	86.1	155.7
Bio 9981(C)			81.5	86.5	204.4	264.3	108.0	87.1	155.3
CD at 5%			NS	NS	2.8	11.8	NS	0.67	NS
CV (%)			3.3	1.6	1.7	5.2	1.1	0.9	0.7

Cont....

A-17

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Days to 50% silking		100-seed weight (g)	Net returns (Ra./ha)		B:C ratio	
			Dholi	Kalyani	Kalyani	Dholi	Kalyani	Dholi	Kalyani
60x20 cm (83,333 plants/ha)	200:65:80	NMH 1290	114.0	92.3	22.3	80160	38071	1.87	1.71
		Buland(C)	115.0	94.7	18.7	71333	15477	1.66	1.28
		Seedtech 2324 (C)	113.3	88.3	21.0	67720	26205	1.58	1.49
		Bio 9981(C)	112.7	88.7	20.4	84023	14211	1.96	1.26
	250:80:100	NMH 1290	114.0	93.3	26.1	83561	39238	1.95	1.71
		Buland(C)	113.0	94.3	18.1	75259	25780	1.75	1.47
		Seedtech 2324 (C)	114.7	89.3	25.7	72799	26923	1.70	1.49
		Bio 9981(C)	114.7	89.7	18.2	86045	24015	2.01	1.44
50x20 cm (1,00,000 plants/ha)	200:65:80	NMH 1290	112.0	88.7	27.4	86836	46281	2.02	1.86
		Buland(C)	113.0	89.0	19.6	77444	33394	1.81	1.62
		Seedtech 2324 (C)	111.3	87.0	24.6	74327	44128	1.73	1.82
		Bio 9981(C)	110.7	88.3	22.1	90720	42542	2.12	1.79
	250:80:100	NMH 1290	112.0	95.7	34.3	92556	50801	2.16	1.94
		Buland(C)	111.0	96.0	26.4	84139	35961	1.96	1.66
		Seedtech 2324 (C)	112.7	87.7	28.9	82294	47562	1.92	1.87
		Bio 9981(C)	112.7	90.0	27.8	94441	45435	2.20	1.83
Mean of location			112.9	90.8	23.9	81478.5	34751.5	1.90	1.64
60x20 cm (83,333 plants/ha)			113.9	91.3	21.3	77612	26240	1.81	1.48
50x20 cm (1,00,000 plants/ha)			111.9	90.3	26.4	85345	43263	1.99	1.80
CD at 5%			NS	0.95	NS	783.81	7662.6	0.02	0.14
CV (%)			0.6	0.8	32.2	0.8	17.8	0.8	6.8
200:65:80			112.8	89.6	22.0	79070	32539	1.84	1.60
250:80:100			113.1	92.0	25.7	83887	36964	1.96	1.68
CD at 5%			NS	0.43	3.5	212.4	NS	0.00	NS
CV (%)			0.7	0.6	18.4	0.3	15.9	0.3	6.2
NMH 1290			113.0	92.5	27.5	85778	43598	2.00	1.80
Buland(C)			113.0	93.5	20.7	77044	27653	1.80	1.51
Seedtech 2324 (C)			113.0	88.1	25.1	74285	36204	1.73	1.67
Bio 9981(C)			112.7	89.2	22.1	88807	31551	2.07	1.58
CD at 5%			NS	0.80	2.1	509.9	6335.1	0.01	0.12
CV (%)			1.0	1.0	10.2	0.7	21.6	0.7	8.5

A-18

Table 7: Performance of pre release late maturity genotypes in Kharif under varying planting density and nutrients levels in Peninsular Zone (PZ).

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Grain yield (kg/ha)			Stover yield (kg/ha)		
			Coimbatore	Dharwad	Vagarai	Coimbatore	Dharwad	Vagarai
60x20 cm (83,333 plants/ha)	200:65:80	NMH 1290	8014	6588	6699	9202	8247	5415
		Buland(C)	7909	5592	5096	8431	7334	3680
		Seedtech 2324 (C)	7469	6687	7378	7554	8348	4543
		Bio 9981(C)	8178	6944	6768	10634	8702	5206
	250:80:100	NMH 1290	8368	6746	8812	9721	8445	6706
		Buland(C)	8259	5789	6018	8913	7481	6008
		Seedtech 2324 (C)	7801	6849	6916	7945	8593	5750
		Bio 9981(C)	8537	7144	7347	11222	8809	6436
50x20 cm (1,00,000 plants/ha)	200:65:80	NMH 1290	8582	6334	10701	9995	8048	8581
		Buland(C)	8471	5318	6704	9167	6935	6005
		Seedtech 2324 (C)	8003	6398	10277	8151	8185	7219
		Bio 9981(C)	8757	6673	11025	11533	8362	12669
	250:80:100	NMH 1290	8958	6477	11036	10532	8222	11409
		Buland(C)	8842	5480	7718	9667	7105	6820
		Seedtech 2324 (C)	8354	6545	10546	8563	8291	10121
		Bio 9981(C)	9141	6812	11576	12134	8538	11738
Mean of location			8353	6398.5	8413.5	9585	8102.8	7394.2
60x20 cm (83,333 plants/ha)			8067	6542	6879	9203	8245	5468
50x20 cm (1,00,000 plants/ha)			8639	6255	9948	9968	7961	9320
CD at 5%			NS	193.2	1995.7	NS	NS	2654.6
CV (%)			5.6	0.7	19.1	7.4	1.5	28.9
200:65:80			8173	6317	8081	9333	8020	6665
250:80:100			8533	6480	8746	9837	8185	8124
CD at 5%			200.4	NS	NS	317.6	NS	1335.2
CV (%)			3.0	3.3	11.1	4.1	1.8	22.5
NMH 1290			8481	6536	9312	9862	8240	8028
Buland(C)			8370	5545	6384	9045	7214	5628
Seedtech 2324 (C)			7907	6620	8779	8053	8354	6908
Bio 9981(C)			8653	6893	9179	11381	8603	9012
CD at 5%			486.5	190.2	1470.6	393.9	263.3	1307.9
CV (%)			6.9	2.7	20.7	4.9	3.0	21.0

Cont....

A-19

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Plants ('000/ha)			Cobs ('000/ha)		
			Coimbatore	Dharwad	Vagarai	Coimbatore	Dharwad	Vagarai
60x20 cm (83,333 plants/ha)	200:65:80	NMH 1290	78.1	71.6	56.7	73.4	69.2	53.6
		Buland(C)	78.4	74.0	50.8	74.4	70.8	47.2
		Seedtech 2324 (C)	78.1	72.0	56.4	72.8	70.4	53.6
		Bio 9981(C)	77.1	73.2	52.8	73.7	72.0	50.3
	250:80:100	NMH 1290	79.0	72.0	59.4	73.1	69.6	56.4
		Buland(C)	78.7	71.2	55.0	74.7	68.4	53.1
		Seedtech 2324 (C)	79.0	68.8	61.4	73.5	67.6	57.8
		Bio 9981(C)	77.5	70.8	64.4	72.5	68.8	61.9
50x20 cm (1,00,000 plants/ha)	200:65:80	NMH 1290	93.2	86.4	72.8	86.4	83.2	69.7
		Buland(C)	93.8	89.6	62.2	87.3	86.8	60.0
		Seedtech 2324 (C)	95.1	89.6	71.9	88.6	86.8	66.1
		Bio 9981(C)	92.9	89.6	78.3	87.7	86.8	71.1
	250:80:100	NMH 1290	93.8	88.8	82.5	87.3	86.0	76.7
		Buland(C)	92.6	86.8	68.9	87.6	84.0	64.7
		Seedtech 2324 (C)	94.1	90.4	82.2	89.5	88.4	75.0
		Bio 9981(C)	92.9	87.2	83.6	87.7	84.4	78.1
Mean of location			85.9	80.1	66.2	80.6	77.7	62.2
60x20 cm (83,333 plants/ha)			78.3	71.7	57.1	73.5	69.6	54.2
50x20 cm (1,00,000 plants/ha)			93.5	88.6	75.3	87.8	85.8	70.2
CD at 5%			2.4	14.6	4.2	0.5	NS	2.9
CV (%)			2.2	4.1	5.1	0.5	5.5	3.7
200:65:80			85.8	80.8	62.7	80.6	78.3	59.0
250:80:100			86.0	79.5	69.7	80.7	77.2	65.5
CD at 5%			NS	NS	2.0	NS	NS	2.0
CV (%)			3.2	3.3	3.8	4.3	2.6	4.1
NMH 1290			86.0	79.7	67.8	80.1	77.0	64.1
Buland(C)			85.9	80.4	59.2	81.0	77.5	56.3
Seedtech 2324 (C)			86.6	80.2	68.0	81.1	78.3	63.1
Bio 9981(C)			85.1	80.2	69.8	80.4	78.0	65.3
CD at 5%			NS	NS	4.2	NS	NS	3.8
CV (%)			3.2	2.3	7.6	3.3	2.5	7.2

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A-20

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Plant height (cm)			100-seed weight (g)			Insect-pest and disease incidence
			Coimbatore	Dharwad	Vagarai	Coimbatore	Dharwad	Vagarai	Vagarai
60x20 cm (83,333 plants/ha)	200:65:80	NMH 1290	237.1	205.4	198.0	31.1	30.7	36.2	0.0
		Buland(C)	233.3	180.7	201.1	32.6	26.5	35.4	6.7
		Seedtech 2324 (C)	219.7	207.8	168.9	33.8	31.4	34.7	0.3
		Bio 9981(C)	245.5	217.5	186.0	29.3	33.9	36.5	0.0
	250:80:100	NMH 1290	242.6	208.9	205.7	31.5	31.5	36.5	0.0
		Buland(C)	238.7	186.9	207.3	33.1	27.7	35.8	11.7
		Seedtech 2324 (C)	225.6	209.8	182.7	34.2	33.5	37.3	2.0
		Bio 9981(C)	250.7	221.6	202.9	29.7	35.7	38.3	0.0
50x20 cm (1,00,000 plants/ha)	200:65:80	NMH 1290	239.5	202.6	219.1	30.5	28.7	36.2	0.3
		Buland(C)	235.8	176.9	228.0	32.1	24.6	35.0	5.7
		Seedtech 2324 (C)	222.1	205.2	199.8	33.3	29.0	34.9	0.0
		Bio 9981(C)	247.8	208.3	216.8	28.6	31.6	34.8	0.0
	250:80:100	NMH 1290	244.7	205.7	222.8	30.7	29.4	37.1	0.0
		Buland(C)	240.8	181.5	230.0	32.3	28.4	36.6	12.0
		Seedtech 2324 (C)	227.2	208.7	199.7	33.7	31.5	39.1	0.0
		Bio 9981(C)	253.1	216.8	222.4	28.7	33.4	33.9	0.0
Mean of location			237.8	202.7	205.7	31.6	30.4	36.2	2.4
60x20 cm (83,333 plants/ha)			236.7	204.8	194.1	31.9	31.3	36.3	2.6
50x20 cm (1,00,000 plants/ha)			238.9	200.7	217.3	31.2	29.6	36.0	2.3
CD at 5%			NS	NS	20.5	NS	NS	NS	NS
CV (%)			2.7	3.3	8.0	5.4	18.1	16.1	124.3
200:65:80			235.1	200.5	202.2	31.4	29.5	35.5	1.6
250:80:100			240.4	205.0	209.2	31.7	31.4	36.8	3.2
CD at 5%			NS	4.2	NS	NS	NS	1.0	NS
CV (%)			7.0	1.4	6.8	3.0	10.2	3.3	193.6
NMH 1290			241.0	205.6	211.4	31.0	30.1	36.5	0.1
Buland(C)			237.2	181.5	216.6	32.5	26.8	35.7	9.0
Seedtech 2324 (C)			223.7	207.9	187.8	33.7	31.3	36.5	0.6
Bio 9981(C)			249.3	216.0	207.0	29.1	33.6	35.9	0.0
CD at 5%			12.4	6.4	9.8	1.3	2.5	NS	3.9
CV (%)			6.2	2.9	5.6	4.8	7.6	8.1	191.0

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A-21

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Days 50% tasseling			Days 50% silking		
			Coimbatore	Dharwad	Vagarai	Coimbatore	Dharwad	Vagarai
60x20 cm (83,333 plants/ha)	200:65:80	NMH 1290	53.0	52.5	59.3	56.7	58.0	63.3
		Buland(C)	52.7	53.0	59.0	56.3	58.5	62.7
		Seedtech 2324 (C)	52.7	52.5	58.0	56.3	57.5	60.7
		Bio 9981(C)	53.3	52.5	58.0	57.0	57.5	60.3
	250:80:100	NMH 1290	53.7	52.5	59.3	57.0	58.5	62.3
		Buland(C)	53.3	52.0	59.3	57.0	57.0	62.7
		Seedtech 2324 (C)	53.0	53.5	58.7	56.7	58.0	62.3
		Bio 9981(C)	53.7	52.5	58.3	57.3	58.0	62.3
50x20 cm (1,00,000 plants/ha)	200:65:80	NMH 1290	52.3	53.5	59.3	55.7	58.5	61.7
		Buland(C)	52.0	52.0	59.7	55.7	56.5	62.3
		Seedtech 2324 (C)	52.3	52.0	57.7	56.0	57.5	60.7
		Bio 9981(C)	52.7	53.0	57.0	56.0	58.5	60.7
	250:80:100	NMH 1290	53.0	53.0	58.7	56.7	58.0	61.7
		Buland(C)	52.7	53.5	59.7	56.0	58.5	62.0
		Seedtech 2324 (C)	52.3	52.5	57.3	56.0	58.5	60.3
		Bio 9981(C)	53.3	52.0	57.3	57.0	58.5	60.0
Mean of location			52.9	52.7	58.5	56.5	58.0	61.6
60x20 cm (83,333 plants/ha)			53.2	52.6	58.8	56.8	57.9	62.1
50x20 cm (1,00,000 plants/ha)			52.6	52.7	58.3	56.1	58.1	61.2
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			1.2	0.3	0.9	1.8	0.3	2.1
200:65:80			52.6	52.6	58.5	56.2	57.8	61.5
250:80:100			53.1	52.7	58.6	56.7	58.1	61.7
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			2.1	1.8	2.3	1.1	2.0	3.3
NMH 1290			53.0	52.9	59.2	56.5	58.3	62.3
Buland(C)			52.7	52.6	59.4	56.3	57.6	62.4
Seedtech 2324 (C)			52.6	52.6	57.9	56.3	57.9	61.0
Bio 9981(C)			53.3	52.5	57.7	56.8	58.1	60.8
CD at 5%			NS	NS	0.5	NS	NS	0.9
CV (%)			2.2	2.5	1.0	2.1	2.0	1.7

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A-22

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Net returns (Rs./ha)			B:C ratio		
			Coimbatore	Dharwad	Vagarai	Coimbatore	Dharwad	Vagarai
60x20 cm (83,333 plants/ha)	200:65:80	NMH 1290	74112	66255	50463	2.34	2.85	1.89
		Buland(C)	71761	51154	24828	2.30	2.43	1.44
		Seedtech 2324 (C)	63294	67777	61346	2.14	2.89	2.08
		Bio 9981(C)	78004	71783	51576	2.41	3.00	1.91
	250:80:100	NMH 1290	78264	66686	82610	2.37	2.76	2.42
		Buland(C)	75821	52078	37912	2.33	2.37	1.65
		Seedtech 2324 (C)	66983	68293	52274	2.17	2.80	1.90
		Bio 9981(C)	82300	72714	59174	2.45	2.92	2.01
50x20 cm (1,00,000 plants/ha)	200:65:80	NMH 1290	80425	62442	114503	2.38	2.74	3.02
		Buland(C)	77932	46850	50552	2.34	2.31	1.89
		Seedtech 2324 (C)	68901	63491	107724	2.18	2.77	2.90
		Bio 9981(C)	84593	67585	119690	2.45	2.88	3.11
	250:80:100	NMH 1290	84930	62624	118200	2.42	2.65	3.02
		Buland(C)	82320	47301	65119	2.37	2.25	2.12
		Seedtech 2324 (C)	72896	63671	110350	2.22	2.68	2.89
		Bio 9981(C)	89277	67713	126847	2.49	2.79	3.17
Mean of location			76988	62401.0	77073.1	2.33	2.69	2.34
60x20 cm (83,333 plants/ha)			73817	64593	52523	2.31	2.75	1.91
50x20 cm (1,00,000 plants/ha)			80159	60210	101623	2.36	2.63	2.77
CD at 5%			NS	3301.2	31931	NS	0.1	0.6
CV (%)			8.5	1.2	33	5.2	0.6	19.2
200:65:80			74878	62167	72585	2.32	2.73	2.28
250:80:100			79099	62635	81561	2.35	2.65	2.40
CD at 5%			2992.0	NS	NS	NS	NS	NS
CV (%)			4.8	5.1	19	2.9	3.2	11.1
NMH 1290			79433	64502	91444	2.38	2.75	2.59
Buland(C)			76959	49346	44603	2.33	2.34	1.77
Seedtech 2324 (C)			68019	65808	82924	2.18	2.79	2.44
Bio 9981(C)			83543	69949	89322	2.45	2.90	2.55
CD at 5%			7478.5	2943.5	23530	0.13	0.08	0.41
CV (%)			11.5	4.3	36.2	6.5	2.7	20.7

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A-23

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Cob length (cm)		Cob girth/diameter (cm)		Grain rows/cob		Grains/row	
			Coimbatore	Vagarai	Coimbatore	Vagarai	Coimbatore	Vagarai	Coimbatore	Vagarai
60x20 cm (83,333 plants/ha)	200:65:80	NMH 1290	16.8	17.1	14.7	4.5	15.6	16.6	34.9	39.3
		Buland(C)	16.6	17.5	14.5	4.9	15.1	16.3	34.3	32.2
		Seedtech 2324 (C)	15.9	17.1	14.2	4.6	14.4	15.4	32.5	36.2
		Bio 9981(C)	17.3	15.7	15.2	4.6	16.0	16.9	36.7	36.2
	250:80:100	NMH 1290	17.5	17.9	15.1	4.6	16.3	16.8	36.3	39.2
		Buland(C)	17.2	16.2	14.8	4.9	15.6	16.9	35.3	29.9
		Seedtech 2324 (C)	16.6	16.3	14.6	4.7	15.2	16.0	33.5	33.1
		Bio 9981(C)	18.1	16.2	15.5	4.6	16.0	17.0	37.9	35.4
50x20 cm (1,00,000 plants/ha)	200:65:80	NMH 1290	16.2	18.3	13.8	4.8	15.1	16.7	33.5	40.9
		Buland(C)	15.9	17.7	13.5	4.9	14.7	16.5	32.7	34.0
		Seedtech 2324 (C)	15.4	16.8	13.3	4.9	14.0	15.9	30.9	36.3
		Bio 9981(C)	16.7	17.4	14.4	4.8	15.5	17.1	35.3	37.5
	250:80:100	NMH 1290	16.9	18.8	14.4	4.7	15.6	16.5	34.6	41.0
		Buland(C)	16.7	17.3	14.2	5.0	15.2	16.7	33.5	33.1
		Seedtech 2324 (C)	16.1	17.6	13.9	4.9	14.9	15.9	32.7	39.0
		Bio 9981(C)	17.5	17.6	14.8	4.9	16.1	17.2	36.5	39.5
Mean of location			16.7	17.2	14.4	4.8	15.3	16.5	34.4	36.4
60x20 cm (83,333 plants/ha)			17.0	16.8	14.8	4.7	15.5	16.5	35.2	35.2
50x20 cm (1,00,000 plants/ha)			16.4	17.7	14.1	4.9	15.1	16.6	33.7	37.7
CD at 5%			NS	NS	0.8	NS	NS	NS	NS	NS
CV (%)			6.2	15.5	4.2	6.4	4.2	5.7	5.4	12.3
200:65:80			16.4	17.2	14.2	4.8	15.0	16.4	33.8	36.6
250:80:100			17.1	17.2	14.7	4.8	15.6	16.6	35.0	36.3
CD at 5%			0.6	NS	0.3	NS	NS	NS	NS	NS
CV (%)			4.1	3.0	2.1	2.9	5.3	4.0	5.8	5.2
NMH 1290			16.9	18.0	14.5	4.7	15.6	16.6	34.8	40.1
Buland(C)			16.6	17.2	14.3	4.9	15.1	16.6	33.9	32.3
Seedtech 2324 (C)			16.0	17.0	14.0	4.7	14.6	15.8	32.4	36.2
Bio 9981(C)			17.4	16.7	15.0	4.7	15.9	17.1	36.6	37.2
CD at 5%			0.8	0.8	NS	0.1	0.7	0.6	1.9	2.0
CV (%)			5.3	5.8	8.0	2.9	5.7	4.2	6.4	6.5

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Table 8: Performance of pre release late maturity genotypes in Rabi under varying planting density and nutrients levels in Central West Zone (CWZ).

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)	Plants ('000/ha)	
			Banswara	Udaipur	Udaipur	Banswara	Udaipur
60x20 cm (83,333 plants/ha)	200:65:80	Rasi 394	10648	2930	4923	82.8	46.7
		PM14205L	10417	3631	8833	82.8	53.8
		DKC 9165(IM8119)	12222	3426	8327	83.3	49.1
		NMH 1290	8426	3140	5717	80.4	53.1
		Buland(C)	5741	4517	7820	77.5	55.3
		Seedtech 2324 (C)	7204	4627	7960	81.6	56.2
		Bio 9981(C)	10602	5420	9693	83.3	54.9
	250:80:100	Rasi 394	11019	3025	4917	82.8	46.9
		PM14205L	10602	3656	8823	82.8	54.2
		DKC 9165(IM8119)	12608	3427	8317	83.3	49.6
		NMH 1290	8750	3243	5713	83.3	53.1
		Buland(C)	6014	4615	7827	82.8	55.8
		Seedtech 2324 (C)	7530	4713	7923	79.3	56.2
		Bio 9981(C)	10787	5510	9517	82.8	54.4
50x20 cm (1,00,000 plants/ha)	200:65:80	Rasi 394	12166	3431	5753	100.0	54.2
		PM14205L	11500	4234	9953	98.9	62.9
		DKC 9165(IM8119)	12958	4151	9327	100.0	57.6
		NMH 1290	9278	3753	6620	95.6	62.4
		Buland(C)	6691	5313	9127	98.3	63.8
		Seedtech 2324 (C)	8745	5363	9330	97.2	61.8
		Bio 9981(C)	11795	6350	10417	100.0	63.6
	250:80:100	Rasi 394	12791	3540	5750	100.0	54.2
		PM14205L	11696	4224	10317	98.9	62.9
		DKC 9165(IM8119)	13287	4042	9317	100.0	57.6
		NMH 1290	10139	3727	6620	97.8	62.4
		Buland(C)	6938	5326	9100	97.2	64.0
		Seedtech 2324 (C)	9110	5423	9340	100.0	64.9
		Bio 9981(C)	11937	6492	11053	100.0	63.3
Mean of location			10057.2	4330.4	8154.8	90.5	57.0
60x20 cm (83,333 plants/ha)			9469	3991	7594	82.1	52.8
50x20 cm (1,00,000 plants/ha)			10645	4669	8716	98.8	61.1
CD at 5%			1062.4	593.2	830.2	2.6	4.5
CV (%)			11.3	14.6	10.8	3.1	8.4
200:65:80			9885	4306	8129	90.1	56.8
250:80:100			10229	4355	8181	90.8	57.1
CD at 5%			NS	NS	NS	NS	NS
CV (%)			6.8	13.8	10.8	2.9	7.2
Rasi 394			11656	3232	5336	91.4	50.5
PM14205L			11054	3936	9482	90.8	58.4
DKC 9165(IM8119)			12769	3762	8822	91.7	53.4
NMH 1290			9148	3466	6168	89.3	57.8
Buland(C)			6346	4943	8468	89.0	59.7
Seedtech 2324 (C)			8147	5032	8638	89.5	59.8
Bio 9981(C)			11280	5943	10170	91.5	59.1
CD at 5%			1068.9	343.4	378.6	1.9	2.0
CV (%)			12.9	9.7	5.7	2.6	4.4

Cont

A-25

Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling
			Banswara	Udaipur	Banswara	Udaipur	Udaipur
60x20 cm (83,333 plants/ha)	200:65:80	Rasi 394	86.8	44.0	293.6	231.7	112.7
		PM14205L	88.5	51.3	292.7	226.7	105.0
		DKC 9165(IM8119)	93.2	46.7	280.6	237.2	105.0
		NMH 1290	85.1	50.7	295.1	247.9	112.0
		Buland(C)	84.5	53.1	287.4	237.6	112.0
		Seedtech 2324 (C)	89.1	53.8	287.3	283.8	105.0
		Bio 9981(C)	90.3	52.0	283.8	280.9	105.0
	250:80:100	Rasi 394	92.0	44.0	297.6	238.6	111.0
		PM14205L	94.3	51.3	295.5	227.6	104.0
		DKC 9165(IM8119)	94.9	46.7	282.5	241.5	104.0
		NMH 1290	88.5	50.7	293.4	250.9	111.0
		Buland(C)	85.4	52.7	286.3	239.4	110.0
		Seedtech 2324 (C)	90.7	53.3	282.4	289.0	104.0
		Bio 9981(C)	93.5	52.0	289.7	280.8	104.0
50x20 cm (1,00,000 plants/ha)	200:65:80	Rasi 394	107.1	51.3	301.7	232.3	112.0
		PM14205L	103.0	60.0	301.7	226.6	105.0
		DKC 9165(IM8119)	108.8	54.7	290.0	244.2	105.0
		NMH 1290	100.1	59.3	301.7	253.5	112.0
		Buland(C)	96.6	61.3	295.0	242.3	112.0
		Seedtech 2324 (C)	100.7	61.6	295.0	296.9	105.0
		Bio 9981(C)	101.3	60.7	290.0	284.2	104.7
	250:80:100	Rasi 394	108.8	51.1	306.7	241.9	111.0
		PM14205L	104.7	60.0	305.0	232.1	104.0
		DKC 9165(IM8119)	108.2	54.7	291.7	246.2	104.0
		NMH 1290	103.0	59.6	301.7	256.3	111.0
		Buland(C)	100.1	61.3	295.0	243.2	110.0
		Seedtech 2324 (C)	100.7	62.0	290.0	296.3	104.0
		Bio 9981(C)	110.0	60.9	298.3	286.9	104.0
Mean of location			96.8	54.3	293.3	253.4	107.4
60x20 cm (83,333 plants/ha)			89.8	50.2	289.1	251.0	107.5
50x20 cm (1,00,000 plants/ha)			103.8	58.5	297.4	255.9	107.4
CD at 5%			8.0	4.4	1.6	NS	NS
CV (%)			8.8	8.5	0.6	10.6	6.0
200:65:80			95.4	54.3	292.5	251.8	108.0
250:80:100			98.2	54.3	294.0	255.0	106.9
CD at 5%			NS	NS	NS	NS	NS
CV (%)			7.8	8.4	3.5	10.5	5.9
Rasi 394			98.7	47.6	299.9	236.1	111.7
PM14205L			97.7	55.7	298.7	228.3	104.5
DKC 9165(IM8119)			101.3	50.7	286.2	242.3	104.5
NMH 1290			94.2	55.1	298.0	252.1	111.5
Buland(C)			91.7	57.1	290.9	240.6	111.0
Seedtech 2324 (C)			95.3	57.7	288.7	291.5	104.5
Bio 9981(C)			98.8	56.4	290.5	283.2	104.4
CD at 5%			NS	1.9	4.9	8.8	2.7
CV (%)			8.0	4.3	2.0	4.2	3.0

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Density	N:P ₂ O ₅ :K ₂ O	Genotypes	Days 50% silking		100-seed weight (g)	Shelling (%)	Net returns (Rs/ha)	B:C ratio
			Banswara	Udaipur	Udaipur	Udaipur	Udaipur	Udaipur
60x20 cm (83,333 plants/ha)	200:65:80	Rasi 394	90.3	119.0	20.4	80.2	15741	0.65
		PM14205L	92.7	112.0	29.0	71.4	28063	1.15
		DKC 9165(IM8119)	95.0	112.0	22.7	70.0	25101	1.03
		NMH 1290	91.3	119.0	22.5	75.2	19051	0.78
		Buland(C)	91.3	119.0	25.2	73.1	37678	1.55
		Seedtech 2324 (C)	91.3	112.0	21.8	82.2	39138	1.61
		Bio 9981(C)	93.0	112.0	28.5	71.1	50391	2.07
	250:80:100	Rasi 394	89.3	118.0	20.8	79.9	15500	0.60
		PM14205L	91.7	111.0	29.2	71.7	26974	1.05
		DKC 9165(IM8119)	94.3	110.3	22.8	70.2	23724	0.92
		NMH 1290	91.3	118.0	22.8	76.2	18908	0.74
		Buland(C)	90.7	117.0	25.6	73.1	37486	1.46
		Seedtech 2324 (C)	90.3	111.0	22.1	82.2	38762	1.51
		Bio 9981(C)	92.7	111.0	29.0	72.1	49916	1.94
50x20 cm (1,00,000 plants/ha)	200:65:80	Rasi 394	94.3	118.7	20.2	80.2	22429	0.92
		PM14205L	94.7	110.3	28.8	72.2	36273	1.48
		DKC 9165(IM8119)	97.3	111.0	22.5	70.2	34643	1.41
		NMH 1290	95.0	118.0	22.4	76.2	27168	1.11
		Buland(C)	95.3	118.0	25.0	73.1	48391	1.98
		Seedtech 2324 (C)	95.3	111.0	21.7	82.1	49194	2.01
		Bio 9981(C)	97.0	111.3	28.4	72.1	62125	2.54
	250:80:100	Rasi 394	94.3	117.0	20.5	80.1	22359	0.86
		PM14205L	94.7	110.0	29.2	72.1	35134	1.36
		DKC 9165(IM8119)	94.7	110.0	22.9	70.2	31954	1.24
		NMH 1290	97.3	117.0	22.7	76.2	25477	0.98
		Buland(C)	93.3	116.0	25.6	73.1	47137	1.82
		Seedtech 2324 (C)	96.3	110.0	21.9	82.2	48549	1.88
		Bio 9981(C)	96.7	110.0	29.1	72.1	63090	2.44
Mean of location			93.6	113.9	24.4	75.0	35012.7	1.40
60x20 cm (83,333 plants/ha)			91.8	114.4	24.5	74.9	30460	1.22
50x20 cm (1,00,000 plants/ha)			95.5	113.5	24.3	75.2	39566	1.57
CD at 5%			0.5	NS	NS	NS	7868.9	0.30
CV (%)			0.6	5.5	6.1	10.0	23.9	23.3
200:65:80			93.9	114.5	24.2	74.9	35385	1.45
250:80:100			93.4	113.3	24.6	75.1	34641	1.34
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			0.9	4.2	5.9	5.1	22.7	22.6
Rasi 394			92.1	118.2	20.5	80.1	19007	0.76
PM14205L			93.4	110.8	29.0	71.8	31611	1.26
DKC 9165(IM8119)			95.3	110.8	22.7	70.2	28855	1.15
NMH 1290			93.8	118.0	22.6	76.0	22651	0.90
Buland(C)			92.7	117.5	25.4	73.1	42673	1.70
Seedtech 2324 (C)			93.3	111.0	21.9	82.2	43911	1.75
Bio 9981(C)			94.8	111.1	28.8	71.9	56381	2.25
CD at 5%			1.0	3.2	0.9	2.5	4436.2	0.18
CV (%)			1.3	3.4	4.7	4.0	15.4	15.5

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Table 9: Nutrient management in maize-wheat-green gram cropping system under different tillage practices in Pantnagar.

Tillage practices	Nutrient management	Wheat Grain yield (kg/ha)	Stover yield (kg/ha)	Tillers/m ²	Plant height (cm)	1000-grain weight (gm)	Net returns (Rs. /ha)	B:C ratio
Zero tillage	FFP	3389	5139	166.7	82.4	41.7	26594	0.93
	SSNM	3472	5306	176.7	83.7	42.3	29904	1.13
	100% RDF	3694	5694	183.3	84.4	42.4	31172	1.08
Conventional tillage	FFP	4417	5722	270.0	90.2	43.1	42113	1.42
	SSNM	4722	6028	285.0	91.3	43.6	49033	1.77
	100% RDF	4806	6361	305.0	92.4	43.8	48044	1.60
Permanent beds	FFP	3373	5159	181.7	83.8	42.4	20337	0.59
	SSNM	3810	5437	185.0	85.7	42.8	29385	0.90
	100% RDF	3889	5754	200.0	88.4	42.7	28331	0.81
Location mean		3952.4	5622.1	217.0	86.9	42.7	33879.2	1.14
C.D.(5%) AiBj-AiBk		540.6	724.5	23.4	9.0	1.9	8785.1	0.29
C.D.(5%) AiBk-AjBk		863.4	778.6	49.1	7.4	2.1	14030.8	0.42
F(5%)		N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
Zero tillage		3519	5380	175.6	83.5	42.1	29223	1.05
Conventional tillage		4648	6037	286.7	91.3	43.5	46397	1.60
Permanent bed		3690	5450	188.9	86.0	42.6	26018	0.77
C.D. (5%) Ai-Aj		748.3	514.5	45.5	1.3	1.5	12160.5	0.35
C.V. (%) Error A		14.5	7.0	16.0	1.1	2.6	27.4	23.8
F (5%)		S	S	S	S	N.S.	S	S
FFP (116:64:32)		3726	5340	206.1	85.5	42.4	29681	0.98
SSNM (110:15:64)		4001	5590	215.6	86.9	42.9	36107	1.27
100% RDF (150:60:40)		4130	5937	229.4	88.4	43.0	35849	1.16
C.D. (5%) Bi-Bj		312.1	418.3	13.5	5.2	1.1	5072.1	0.16
C.V. (%) ErrorB		7.7	7.2	6.1	5.8	2.5	14.6	14.1
F (5%)		S	S	S	NS	NS	S	S

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A-28

Tillage practices	Nutrient management	N uptake (kg/ha)		P uptake (kg/ha)		K uptake (kg/ha)		Total uptake (kg/ha) (Grain + stover)		
		Grain	Stover	Grain	Stover	Grain	Stover	N	P	K
Zero tillage	FFP	46.2	15.3	7.8	6.4	13.3	58.2	61.5	14.2	71.5
	SSNM	47.0	15.9	7.6	6.3	14.8	69.2	62.9	13.8	84.0
	100% RDF	52.5	19.0	8.8	7.5	15.1	67.7	71.5	16.3	82.8
Conventional tillage	FFP	63.3	18.8	10.8	7.4	18.8	71.0	82.1	18.2	89.8
	SSNM	68.5	21.0	11.0	7.4	21.0	81.9	89.5	18.4	102.9
	100% RDF	73.9	24.6	12.3	8.7	20.2	80.1	98.5	21.0	100.4
Permanent beds	FFP	45.5	16.4	7.6	6.2	13.9	62.3	61.9	13.7	76.3
	SSNM	52.7	17.1	8.4	6.1	16.5	70.8	69.8	14.5	87.4
	100% RDF	55.5	19.4	9.1	7.5	16.3	70.5	74.9	16.6	86.7
Location mean		56.1	18.6	9.3	7.0	16.7	70.2	74.7	16.3	86.9
C.D.(5%) AiBj-AiBk		10.3	5.6	1.9	2.1	3.1	15.6	17.2	13.4	3.0
C.D.(5%) AiBk-AjBk		15.2	6.1	2.4	2.0	3.9	15.4	16.8	17.2	3.3
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS	NS
Zero tillage		48.6	16.7	8.1	6.7	14.4	65.1	79.4	65.3	14.8
Conventional tillage		68.6	21.4	11.4	7.8	20.0	77.7	97.7	90.0	19.2
Permanent bed		51.2	17.6	8.3	6.6	15.6	67.9	83.5	68.9	14.9
C.D. (5%) Ai-Aj		12.8	4.1	1.8	0.9	2.9	8.7	9.4	13.5	2.3
C.V. (%) Error A		17.4	16.9	15.0	9.7	13.5	9.5	8.2	13.8	10.6
F (5%)		S	NS	S	S	S	S	S	S	S
FFP (116:64:32)		51.7	16.8	8.7	6.7	15.4	63.8	79.2	68.5	15.4
SSNM (110:15:64)		56.1	18.0	9.0	6.6	17.5	74.0	91.4	74.1	15.6
100% RDF (150:60:40)		60.7	21.0	10.1	7.9	17.2	72.8	90.0	81.7	17.9
C.D. (5%) Bi-Bj		6.0	3.2	1.1	1.2	1.8	9.0	9.9	7.7	1.7
C.V. (%) ErrorB		10.3	17.0	11.5	17.0	10.5	12.5	11.1	10.0	10.3
F (5%)		S	S	S	NS	NS	NS	S	S	S

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A-29

Tillage practices	Nutrient management	Cowpea green pod yield (kg/ha)	Green fodder yield (kg/ha)	Plant height (cm)	Net returns (Rs. /ha)	B:C ratio	Maize equivalent yield of MWC cropping system	System net return (Rs./ha)	System B:C ratio
Zero tillage	FFP	2200	10278	60.6	58497	1.98	14979	129435	1.73
	SSNM	2333	11222	64.7	63830	2.16	16421	150436	2.04
	100% RDF	2239	10000	61.9	60053	2.04	16515	147991	1.91
Conventional tillage	FFP	2528	9389	61.1	68425	2.09	17216	147941	1.70
	SSNM	2267	10389	51.7	57981	1.77	17185	148830	1.74
	100% RDF	2367	10417	51.3	61981	1.90	17894	154795	1.73
Permanent beds	FFP	1778	12063	54.3	38208	1.16	13564	98722	1.14
	SSNM	1929	12619	56.5	44240	1.34	15001	119660	1.41
	100% RDF	2087	12937	59.8	50589	1.54	15773	126465	1.42
Location mean		2192	11035	58.0	55978	1.78	16060.7	136030.5	1.65
C.D.(5%) AiBj-AiBk		1283	4784	18.0	51314	1.64	3891.7	53121.1	0.66
C.D.(5%) AiBk-AjBk		1606	5518	26.0	64236	2.09	4944.4	67491.0	0.85
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS
Zero tillage		2257	10500	62.4	60793	2.06	15971	142621	1.89
Conventional tillage		2387	10065	54.7	62795	1.92	17431	150522	1.72
Permanent bed		1931	12540	56.9	44346	1.35	14779	114949	1.32
C.D. (5%) Ai-Aj		1232.8	3954.3	21.7	49311.3	1.62	3835.2	52350.7	0.67
C.V. (%) Error A		43.0	27.4	28.6	67.3	69.7	18.2	29.4	31.2
F (5%)		NS	NS	NS	NS	NS	NS	NS	NS
FFP (116:64:32)		2169	10577	58.7	55043	1.75	15253	125366	1.52
SSNM (110:15:64)		2176	11410	57.6	55350	1.76	16202	139642	1.73
100% RDF (150:60:40)		2231	11118	57.7	57541	1.82	16727	143083	1.69
C.D. (5%) Bi-Bj		740.6	2761.8	10.4	29625.9	0.95	2246.8	30669.5	0.38
C.V. (%) ErrorB		32.9	24.4	17.5	51.5	51.9	13.6	21.9	22.4
F (5%)		NS	NS	NS	NS	NS	NS	NS	NS

****MWC = Maize-Wheat-Cowpea**

Cont....

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Tillage practices	Nutrient management	Uptake (kg/ha) by crop			Residual available (kg/ha)			Organic carbon %	Soil pH	Bulk density (Mg/m ³) at 0-15 cm depth
		N	P	K	N	P	K			
Zero tillage	FFP	45.5	7.6	43.9	255.0	27.1	228.0	0.85	7.1	1.44
	SSNM	49.9	8.4	49.9	268.0	17.6	238.0	0.87	7.2	1.45
	100% RDF	43.4	6.9	43.2	278.0	26.1	224.0	0.88	7.0	1.41
Conventional tillage	FFP	43.4	7.2	43.1	205.0	24.3	208.0	0.63	7.4	1.38
	SSNM	45.0	8.5	44.6	219.0	15.2	233.0	0.64	7.4	1.36
	100% RDF	46.3	7.8	47.5	225.0	23.8	229.0	0.69	7.5	1.40
Permanent beds	FFP	53.4	8.9	49.6	244.0	25.9	217.0	0.81	7.1	1.42
	SSNM	52.1	8.5	54.4	258.0	17.5	235.0	0.83	7.1	1.45
	100% RDF	52.9	9.3	56.1	264.0	26.4	218.0	0.91	7.1	1.45
Location mean		48.0	8.1	48.0	246.2	22.7	225.6	0.79	7.2	1.42
C.D.(5%) AiBj-AiBk		21.7	3.5	23.2	40.6	5.8	39.5	0.15	0.6	0.11
C.D.(5%) AiBk-AjBk		22.6	4.7	27.1	52.0	5.1	47.4	0.22	0.5	0.11
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS	NS
Zero tillage		46.3	7.6	45.7	267.0	23.6	230.0	0.87	7.1	1.43
Conventional tillage		44.9	7.9	45.1	216.3	21.1	223.3	0.65	7.4	1.38
Permanent bed		52.8	8.9	53.4	255.3	23.3	223.3	0.85	7.1	1.44
C.D. (5%) Ai-Aj		14.3	3.7	19.7	40.5	1.9	35.1	0.18	0.2	0.07
C.V. (%) Error A		22.8	35.2	31.3	12.6	6.6	11.9	17.8	2.6	3.8
F (5%)		NS	NS	NS	NS	S	NS	NS	S	NS
FFP (116:64:32)		47.4	7.9	45.5	234.7	25.8	217.7	0.76	7.2	1.41
SSNM (110:15:64)		49.0	8.5	49.6	248.3	16.8	235.3	0.78	7.2	1.42
100% RDF (150:60:40)		47.5	8.0	48.9	255.7	25.4	223.7	0.83	7.2	1.42
C.D. (5%) Bi-Bj		12.5	2.0	13.4	23.5	3.3	22.8	0.08	0.3	0.06
C.V. (%) ErrorB		25.4	23.9	27.2	9.3	14.4	9.8	10.5	4.6	4.3
F (5%)		NS	NS	NS	NS	S	NS	NS	NS	NS

A-31

Table 10: Nutrient management in maize-wheat-green gram cropping system under different tillage practices in Dholi.

Tillage practices	Nutrient management	Wheat Grain Yield (Kg/ha)	Stover yield (kg/ha)	Plant Height (cm)	Days of Flowering	Days of Maturity	Effective tillers/m ²	Spike length (cm)
Zero Tillage	RDF	4327	2163	81.7	89.0	129.0	418.3	11.2
	SSNM	4497	2248	82.0	90.0	129.7	416.0	10.6
	FFP	4444	2222	83.7	88.0	129.0	445.3	9.8
Conventional Tillage	RDF	4680	2340	83.7	87.7	128.7	436.3	11.6
	SSNM	4613	2307	86.0	87.3	128.3	432.7	11.6
	FFP	4374	2187	82.3	88.0	128.0	442.3	12.0
Permanent Bed	RDF	4917	3033	81.3	88.0	128.3	431.7	10.2
	SSNM	4840	2420	87.3	87.0	128.0	405.3	10.8
	FFP	4867	2433	79.3	86.3	127.7	434.7	11.6
Location mean		4617.5	2372.6	83.0	87.9	128.5	429.2	11.0
C.D.(5%) AiBj-AiBk		34.6	592.4	4.9	2.0	1.2	40.3	1.3
C.D.(5%) AiBk-AjBk		29.4	647.8	5.9	2.1	2.3	38.9	1.5
F(5%)		S	NS	NS	NS	NS	NS	NS
Zero tillage		4422	2211	82.4	89.0	129.2	426.6	10.6
Conventional tillage		4556	2278	84.0	87.7	128.3	437.1	11.7
Permanent bed		4874	2629	82.7	87.1	128.0	423.9	10.9
C.D. (5%) Ai-Aj		8.5	437.7	4.4	1.3	2.1	21.0	1.1
C.V. (%) Error A		0.1	14.1	4.1	1.1	1.3	3.7	7.5
F (5%)		S	NS	NS	S	NS	NS	NS
100% RDF (120:60:40)		4641	2512	82.2	88.2	128.7	428.8	11.0
SSNM (159:34.5:75)		4650	2325	85.1	88.1	128.7	418.0	11.0
FFP (117:30:00)		4561	2281	81.8	87.4	128.2	440.8	11.1
C.D. (5%) Bi-Bj		20.0	342.0	2.9	1.2	0.7	23.3	0.8
C.V. (%) ErrorB		0.4	14.0	3.3	1.3	0.5	5.3	6.7
F (5%)		S	NS	NS	NS	NS	NS	NS

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A-32

Tillage practices	Nutrient management	Spikelet/spike	Grins/spikes	1000 Grain weight (g)	Grain weight/m ² (g)	Net return (Rs./ha)	B:C Ratio	Moisture (%)
Zero Tillage	RDF	14.3	44.3	46.7	433.0	48952	0.56	12.8
	SSNM	14.7	43.7	48.0	450.0	55042	0.63	12.3
	FFP	14.0	44.0	47.0	444.7	57554	0.65	12.0
Conventional Tillage	RDF	14.7	42.3	43.7	468.3	90229	1.03	12.6
	SSNM	14.0	46.0	44.6	461.7	53607	0.61	11.7
	FFP	12.7	47.7	46.4	437.7	51177	0.58	13.0
Permanent Bed	RDF	12.7	41.3	45.3	492.0	63085	0.72	13.0
	SSNM	13.3	45.3	48.3	484.3	63575	0.72	14.2
	FFP	13.3	42.3	45.8	487.0	67285	0.77	11.8
Location mean		13.7	44.1	46.2	462.1	61167.3	0.70	
C.D.(5%) AiBj-AiBk		1.9	7.2	2.5	3.5	21828.6	0.25	
C.D.(5%) AiBk-AjBk		3.2	11.8	3.5	2.9	21708.0	0.25	
F(5%)		NS	NS	NS	S	S	S	
Zero tillage		14.3	44.0	47.2	442.6	53849	0.61	12.4
Conventional tillage		13.8	45.3	44.9	455.9	65004	0.74	12.4
Permanent bed		13.1	43.0	46.5	487.8	64648	0.74	13.0
C.D. (5%) Ai-Aj		2.8	10.3	2.8	0.9	12617.7	0.14	
C.V. (%) Error A		15.8	17.8	4.6	0.1	15.8	15.8	
F (5%)		NS	NS	NS	S	NS	NS	
100% RDF (120:60:40)		13.9	42.7	45.3	464.4	67422	0.77	12.8
SSNM (159:34.5:75)		14.0	45.0	47.0	465.3	57408	0.65	12.7
FFP (170:90:60)		13.3	44.7	46.4	456.4	58672	0.67	12.3
C.D. (5%) Bi-Bj		1.1	4.1	1.5	2.0	12602.7	0.14	
C.V. (%) ErrorB		7.7	9.1	3.1	0.4	20.1	20.1	
F (5%)		NS	NS	NS	S	NS	NS	

Table 11: Nutrient management in maize-wheat-green gram cropping system under different tillage practices in Banswara.

Tillage practices	Fertility levels	Wheat grain Yield (kg/ha)
Zero tillage	RDF	9688
	SSNM	10493
	FFP	8521
Conventional tillage	RDF	7986
	SSNM	9236
	FFP	6161
bed	RDF	8194
	SSNM	9514
	FFP	6194

Location mean 8443.1

C.D.(5%) AiBj-AiBk 1306.7

C.D.(5%) AiBk-AjBk 1345.6

F(5%) NS

Zero tillage	9567
Conventional tillage	7794
Permanent bed	7968

C.D. (5%) Ai-Aj Permanent 834.1

C.V. (%) Error A 7.5

F (5%) S

100% RDF (150:60:40)	8623
SSNM (208:59:66)	9748
FFP (110:46:00)	6959

C.D. (5%) Bi-Bj 754.4

C.V. (%) ErrorB 8.7

F (5%) S

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Table 12: Nutrient management in rice-maize cropping system under different tillage practices in 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)	Days to 50% tasseling
Zero Tillage	RDF	7789	4018	10925	92.2	91.4	201.3	110.7
	SSNM	8437	3995	11484	93.1	93.5	200.0	111.3
	FFP	8735	1059	11982	92.0	92.7	200.0	111.0
Conventional Tillage	RDF	7517	1105	10365	91.8	90.6	200.7	111.3
	SSNM	7988	1101	11028	91.6	91.6	196.7	111.3
	FFP	8121	3574	11070	92.9	93.5	203.3	111.0
Permanent Bed	RDF	8236	3561	11505	92.2	90.6	204.0	111.3
	SSNM	8886	3554	12127	91.8	92.7	197.7	113.3
	FFP	9230	5960	12645	91.2	92.7	201.0	112.7
Location mean		8326.4	3103.0	11458.9	92.1	92.1	200.5	111.6
C.D.(5%) AiBj-AiBk		500.2	5625.2	689.8	2.4	2.3	10.7	2.2
C.D.(5%) AiBk-AjBk		450.4	6165.0	621.2	2.3	2.0	9.6	1.9
F(5%)		NS	NS	NS	NS	NS	NS	NS
Zero tillage		8320	3024	11464	92.5	92.5	200.4	111.0
Conventional tillage		7875	1927	10821	92.1	91.9	200.2	111.2
Permanent bed		8784	4358	12092	91.8	92.0	200.9	112.4
C.D. (5%) Ai-Aj		193.9	4176.9	267.6	1.3	0.6	4.1	0.8
C.V. (%) Error A		1.8	102.9	1.8	1.0	0.5	1.5	0.6
F (5%)		S	NS	S	NS	NS	NS	S
100% RDF (120:60:40)		7847	2895	10931	92.1	90.9	202.0	111.1
SSNM (130:75:45)		8437	2883	11546	92.2	92.6	198.1	112.0
FFP (160:75:60)		8695	3531	11899	92.0	92.9	201.4	111.6
C.D. (5%) Bi-Bj		288.8	3247.7	398.3	1.4	1.3	6.2	1.2
C.V. (%) ErrorB		3.4	101.9	3.4	1.5	1.4	3.0	1.1
F (5%)		S	NS	S	NS	S	NS	NS

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A-35

Tillage practices	Nutrient management	Days to 50% silking	Days of maturity	Cob length (cm)	Cob girth (cm)	Net Return (Rs./ha)	B:C Ratio	Moisture (%)
Zero Tillage	RDF	114.7	163.0	18.0	14.7	64822	0.73	24.2
	SSNM	115.3	162.7	17.0	14.7	69112	0.78	21.9
	FFP	115.0	163.3	20.0	15.0	78669	0.89	22.5
Conventional Tillage	RDF	115.3	162.7	17.0	16.0	55604	0.63	22.9
	SSNM	116.0	163.0	21.0	16.7	63491	0.72	23.0
	FFP	115.0	164.0	20.0	14.3	65598	0.74	22.0
Permanent Bed	RDF	116.0	163.0	20.0	15.0	67106	0.76	23.9
	SSNM	117.3	163.3	22.0	14.0	81665	0.92	22.1
	FFP	117.0	164.0	23.0	14.3	88204	1.00	22.4
Location mean		115.7	163.2	19.8	15.0	70474.6	0.80	
C.D.(5%) AiBj-AiBk		2.6	1.6	1.0	3.0	7312.1	0.09	
C.D.(5%) AiBk-AjBk		2.2	2.1	0.9	2.5	7196.8	0.08	
F(5%)		NS	NS	S	NS	NS	NS	
Zero tillage		115.0	163.0	18.3	14.8	70868	0.80	22.9
Conventional tillage		115.4	163.2	19.3	15.7	61564	0.69	22.6
Permanent bed		116.8	163.4	21.7	14.4	78992	0.89	22.8
C.D. (5%) Ai-Aj		0.7	1.6	0.4	0.4	4092.7	0.05	
C.V. (%) Error A		0.5	0.8	1.7	2.0	4.4	4.5	
F (5%)		S	NS	S	S	S	S	
100% RDF (120:60:40)		115.3	162.9	18.3	15.2	62511	0.71	23.7
SSNM (130:75:45)		116.2	163.0	20.0	15.1	71423	0.81	22.3
FFP (160:75:60)		115.7	163.8	21.0	14.6	77491	0.88	22.3
C.D. (5%) Bi-Bj		1.5	0.9	0.6	1.7	4221.6	0.05	
C.V. (%) ErrorB		1.2	0.6	2.9	11.3	5.8	6.0	
F (5%)		NS	NS	S	NS	S	S	

A-36

Table 13: Nutrient management in rice-maize cropping system under different tillage practices in Kalyani.

Tillage practices	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio
Zero tillage	RDF	8078	9445	87.5	85.3	225.3	89.0	91.3	33.7	47771	1.97
	SSNM	8147	9904	90.6	88.8	239.0	89.3	91.3	35.7	49645	2.02
	FFP	7685	9250	85.9	84.0	219.7	89.3	91.3	32.7	42863	1.86
Conventional till	RDF	8589	10640	96.7	95.1	248.3	87.0	89.0	36.3	53906	2.09
	SSNM	9043	11141	97.8	95.9	252.7	88.3	90.3	38.7	60389	2.25
	FFP	8224	10149	92.0	90.4	232.3	88.0	90.7	35.0	49329	1.99
Permanent bed	RDF	7319	8570	80.2	78.9	220.7	92.0	94.0	29.7	38657	1.78
	SSNM	7349	9008	86.1	84.3	227.3	92.3	94.3	33.7	40063	1.82
	FFP	7142	8518	79.4	77.8	215.3	91.7	93.7	26.7	36343	1.73
Location mean		7952.8	9625.0	88.5	86.7	231.2	89.7	91.8	33.6	46551.8	1.95
C.D.(5%) AiBj-AiBk		258.8	253.9	1.6	1.5	5.0	2.1	2.4	2.1	3105.7	0.07
C.D.(5%) AiBk-AjBk		473.8	285.6	1.6	1.7	9.5	2.5	2.8	4.6	5685.4	0.12
F(5%)		S	NS	S	S	S	NS	NS	NS	S	S
Zero tillage		7970	9533	88.0	86.0	228.0	89.2	91.3	34.0	46760	1.95
Conventional tillage		8619	10644	95.5	93.8	244.4	87.8	90.0	36.7	54542	2.11
Permanent bed		7270	8699	81.9	80.3	221.1	92.0	94.0	30.0	38354	1.78
C.D. (5%) Ai-Aj		426.9	199.4	1.0	1.1	8.6	1.9	2.0	4.2	5122.4	0.11
C.V. (%) Error A		4.1	1.6	0.8	1.0	2.8	1.6	1.7	9.6	8.4	4.1
F (5%)		S	S	S	S	S	S	S	S	S	S
RDF (120:60:60)		7995	9552	88.1	86.4	231.4	89.3	91.4	33.2	46778	1.95
SSNM (120:44:51)		8180	10018	91.5	89.7	239.7	90.0	92.0	36.0	50032	2.03
FFP (150:56:60)		7683	9306	85.8	84.1	222.4	89.7	91.9	31.4	42845	1.86
C.D. (5%) Bi-Bj		149.4	146.6	0.9	0.9	2.9	1.2	1.4	1.2	1793.1	0.04
C.V. (%) ErrorB		1.8	1.5	1.0	1.0	1.2	1.3	1.5	3.6	3.7	2.0
F (5%)		S	S	S	S	S	NS	NS	S	S	S

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A-37

Tillage practices	Nutrient management	Barrenness in maize (%)	Cob length (cm)	Cob girth (cm)	No. of grain rows/cob	No. of grains/row	Total N uptake	Total P uptake	Total K Uptake
Zero tillage	RDF	0.4	16.4	15.9	15.5	32.2	97.7	26.8	106.3
	SSNM	0.3	17.6	16.7	15.9	35.9	101.0	29.0	111.3
	FFP	0.4	16.2	16.5	14.4	31.8	93.0	25.8	103.7
Conventional till	RDF	0.3	17.0	16.9	16.6	34.7	103.3	32.6	112.0
	SSNM	0.2	20.4	17.6	17.3	38.3	125.3	37.4	126.3
	FFP	0.3	16.5	16.9	16.0	33.1	110.7	29.4	122.7
Permanent bed	RDF	0.5	16.1	15.7	14.5	30.2	84.7	22.4	98.3
	SSNM	0.3	16.8	16.3	15.3	34.4	87.3	23.2	103.3
	FFP	0.6	15.2	15.1	13.9	28.4	78.3	22.4	96.0

Location mean	0.4	16.9	16.4	15.5	33.2	97.9	27.7	108.9
C.D.(5%) AiBj-AiBk	0.2	1.2	0.9	0.5	3.0	2.6	1.7	5.2
C.D.(5%) AiBk-AjBk	0.2	1.9	0.9	0.9	3.1	2.5	7.3	5.5
F(5%)	NS	S	NS	NS	NS	S	S	S

Zero tillage	0.4	16.7	16.4	15.3	33.3	97.2	27.2	107.1
Conventional tillage	0.3	18.0	17.1	16.6	35.4	113.1	33.1	120.3
Permanent bed	0.5	16.0	15.7	14.6	31.0	83.4	22.7	99.2

C.D. (5%) Ai-Aj	0.1	1.6	0.5	0.8	1.9	1.4	7.2	3.6
C.V. (%) Error A	10.4	7.3	2.4	4.0	4.4	1.1	19.8	2.5
F (5%)	S	NS	S	S	S	S	S	S

RDF (120:60:60)	0.4	16.5	16.2	15.5	32.4	95.2	27.3	105.6
SSNM (120:44:51)	0.3	18.3	16.9	16.1	36.2	104.6	29.9	113.7
FFP (150:56:60)	0.4	16.0	16.2	14.8	31.1	94.0	25.9	107.4

C.D. (5%) Bi-Bj	0.1	0.7	0.5	0.3	1.7	1.5	1.0	3.0
C.V. (%) ErrorB	34.5	4.1	3.2	1.8	5.1	1.5	3.5	2.7
F (5%)	NS	S	S	S	S	S	S	S

A-38

Table 14: Nutrient management in rice-maize cropping systems under different tillage practices in Hyderabad.

Tillage practices	Nutrient management	Maize grain yield (ka/ha)	Stover Yield (kg/ha)	Plans ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% Silking	Cob length (cm)	Cob width (cm)
Conventional tillage in both rice and maize (CT-CT)	100% RDF	7080	7997	66.4	60.2	239.7	68.2	17.8	15.6
	SSNM	7170	7642	63.5	59.3	222.3	65.0	16.5	15.1
	FP	6949	7973	67.5	61.3	239.0	66.3	17.1	15.4
	50% RDF	5230	5840	58.5	54.4	180.0	61.9	13.6	13.3
Conventional tillage in rice and Zero-tillage in maize	100% RDF	7890	8410	67.8	66.0	239.3	70.0	20.2	16.3
	SSNM	7191	7886	65.2	63.6	218.0	65.1	17.6	15.7
	FP	7497	8110	66.8	64.2	235.3	67.6	18.3	14.9
	50% RDF	5523	5985	56.5	55.9	169.0	61.5	13.8	13.0
Zero-tillage in both rice and maize	100% RDF	6715	7263	64.9	62.3	208.7	66.9	16.6	14.9
	SSNM	6417	7023	64.9	59.2	211.3	64.3	15.4	14.8
	FP	6484	6823	62.0	59.2	209.0	64.9	16.0	14.6
	50% RDF	4965	6050	53.5	50.9	161.0	58.6	13.3	12.5
Location mean		6592.5	7250.2	63.1	59.7	211.1	65.0	16.3	14.7
C.D.(5%) AiBj-AiBk		578.0	854.2	2.5	2.0	10.0	2.8	1.5	0.7
C.D.(5%) AiBk-AjBk		720.2	787.7	3.8	2.4	15.6	3.1	1.5	1.1
F(5%)		NS	NS	S	S	S	NS	NS	NS
CT in both rice and maize		6607	7363	64.0	58.8	220.3	65.4	16.2	14.8
CT in rice and ZT in maize		7025	7598	64.1	62.4	215.4	66.0	17.5	15.0
ZT in both rice and maize		6145	6790	61.3	57.9	197.5	63.7	15.3	14.2
C.D. (5%) Ai-Aj		527.5	278.3	3.1	1.7	13.2	2.0	0.9	0.9
C.V. (%) Error A		7.1	3.4	4.4	2.6	5.5	2.8	4.8	5.5
F (5%)		S	S	NS	S	S	NS	S	NS
100% RDF (240:80:80)		7228	7890	66.3	62.8	229.2	68.4	18.2	15.6
SSNM (140:47:56)		6926	7517	64.5	60.7	217.2	64.8	16.5	15.2
FFP (214:50:40)		6977	7636	65.4	61.6	227.8	66.3	17.1	15.0
50% RDF (120:40:40)		5239	5958	56.2	53.7	170.0	60.6	13.6	12.9
C.D. (5%) Bi-Bj		333.7	493.2	1.4	1.1	5.8	1.6	0.8	0.4
C.V. (%) Error B		5.1	6.9	2.3	1.9	2.8	2.5	5.2	2.6
F (5%)		S	S	S	S	S	S	S	S

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A-39

Tillage practices	Nutrient management	Grain rows/cob	Grains/row	100 Seed weight (g)	Rice grain yield (kg/ha)	Maize equivalent yield of Rice (ka/ha)	System productivity (ka/ha)	Net Returns (Rs/ha)	B:C Ratio
Conventional tillage in both rice and maize (CT-CT)	100% RDF	16.3	32.7	32.5	5927	6122	13202	63694	2.58
	SSNM	14.7	29.3	32.5	5672	5859	13029	58071	2.23
	FP	15.7	31.3	31.2	5895	6089	13038	33510	1.48
	50% RDF	13.3	23.3	21.5	3974	4105	9335	57920	4.04
Conventional tillage in rice and Zero-tillage in maize	100% RDF	15.3	32.7	30.6	6318	6527	14417	71922	2.63
	SSNM	14.7	28.7	31.1	5553	5736	12927	56230	2.13
	FP	15.0	29.3	29.6	5928	6123	13620	36194	1.49
	50% RDF	12.7	21.3	19.5	4102	4237	9761	59355	3.80
Zero-tillage in both rice and maize	100% RDF	14.0	26.7	27.1	5564	5748	12463	47430	1.92
	SSNM	13.3	24.7	24.0	4560	4710	11127	43828	1.86
	FP	13.7	25.0	25.7	5137	5306	11790	36583	1.63
	50% RDF	12.0	20.0	19.1	3743	3866	8831	40844	2.25
Location mean		14.2	27.1	27.0	5197.7	5369.0	11961.6	50465.0	2.34
C.D.(5%) AiBj-AiBk		2.2	2.4	2.5	509.8	526.6	718.0	5657.6	0.41
C.D.(5%) AiBk-AjBk		2.2	3.3	3.1	555.1	573.4	1040.9	6759.8	0.43
F(5%)		NS	NS	S	NS	NS	NS	S	S
CT in both rice and maize		15.0	29.2	29.4	5367	5544	12151	53299	2.58
CT in rice and ZT in maize		14.4	28.0	27.7	5475	5656	12681	55925	2.51
ZT in both rice and maize		13.3	24.1	24.0	4751	4908	11053	42171	1.92
C.D. (5%) Ai-Aj		1.2	2.6	2.3	344.1	355.5	847.0	4749.3	0.24
C.V. (%) Error A		7.3	8.4	7.5	5.8	5.8	6.2	8.3	9.2
F (5%)		S	S	S	S	S	S	S	S
100% RDF (240:80:80)		15.2	30.7	30.1	5936	6132	13360	61015	2.38
SSNM (140:47:56)		14.2	27.6	29.2	5262	5435	12361	52709	2.08
FP (214:50:40)		14.8	28.6	28.8	5653	5839	12816	35429	1.53
50% RDF (120:40:40)		12.7	21.6	20.0	3940	4069	9309	52706	3.36
C.D. (5%) Bi-Bj		1.3	1.4	1.5	294.3	304.0	414.6	3266.4	0.24
C.V. (%) ErrorB		9.0	5.1	5.4	5.7	5.7	3.5	6.5	10.2
F (5%)		S	S	S	S	S	S	S	S

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A-40

Tillage practices	Nutrient management	Nutrient uptake (kg/ha)			Soil Available nutrients (kg/ha)		
		N	P	K	N	P	K
Conventional tillage in both rice and maize (CT-CT)	100% RDF	121.0	35.7	154.9	164.3	70.0	645.0
	SSNM	110.0	25.5	145.7	160.6	60.1	655.7
	FP	103.0	27.0	147.3	167.3	65.9	666.0
	50% RDF	95.0	22.9	131.0	162.0	62.7	599.7
Conventional tillage in rice and Zero-tillage in maize	100% RDF	124.7	33.3	154.1	192.3	65.8	660.0
	SSNM	106.3	26.8	142.0	203.7	63.0	612.0
	FP	104.7	28.2	150.0	194.7	68.0	617.0
	50% RDF	91.3	25.0	132.0	178.0	62.3	537.0
Zero-tillage in both rice and maize	100% RDF	112.7	29.1	155.0	219.0	70.0	676.0
	SSNM	114.7	25.4	135.0	200.0	67.0	663.7
	FP	101.3	31.7	150.7	191.3	65.3	648.3
	50% RDF	87.3	23.4	136.3	176.7	62.2	504.3
Location mean		106.0	27.8	144.5	184.2	65.2	623.7
C.D.(5%) AiBj-AiBk		7.5	4.2	7.7	15.2	3.0	111.2
C.D.(5%) AiBk-AjBk		9.7	5.0	11.3	15.3	3.0	103.4
F(5%)		S	S	NS	S	S	NS
CT in both rice and maize		107.3	27.8	144.7	163.6	64.7	641.6
CT in rice and ZT in maize		106.8	28.3	144.5	192.2	64.8	606.5
ZT in both rice and maize		104.0	27.4	144.3	196.8	66.1	623.1
C.D. (5%) Ai-Aj		7.4	3.4	9.2	8.0	1.6	38.8
C.V. (%) Error A		6.2	10.9	5.6	3.8	2.2	5.5
F (5%)		NS	NS	NS	S	NS	NS
100% RDF (240:80:80)		119.4	32.7	154.7	191.9	68.6	660.3
SSNM (140:47:56)		110.3	25.9	140.9	188.1	63.4	643.8
FP (214:50:40)		103.0	29.0	149.3	184.4	66.4	643.8
50% RDF (120:40:40)		91.2	23.7	133.1	172.2	62.4	547.0
C.D. (5%) Bi-Bj		4.3	2.4	4.4	8.8	1.7	64.2
C.V. (%) ErrorB		4.1	8.8	3.1	4.8	2.7	10.4
F (5%)		S	S	S	S	S	S

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Table 15: Nutrient management in maize-based cropping systems under different tillage practices in Delhi.

Tillage practices	Nutrient management	Mustard yield (kg/ha) under maize-mustard cropping system	Chickpea yield (kg/ha) in maize-chickpea cropping system
Zero-tillage	Control	1693	1045
	100% RDF	2256	1378
	SSNM	2167	1111
	50% RDF	1878	1534
Permanent bed	Control	1578	845
	100% RDF	1956	878
	SSNM	2168	967
	50% RDF	1989	1578
Conventional tillage	Control	1445	722
	100% RDF	1934	711
	SSNM	1867	989
	50% RDF	1767	1034
Location mean		1891.4	1066.1
C.D.(5%) AiBj-AiBk		408.5	442.5
C.D.(5%) AiBk-AjBk		391.2	449.1
F(5%)		NS	NS
Zero tillage		1999	1267
Permanent bed		1923	1067
Conventional tillage		1753	864
C.D. (5%) Ai-Aj		171.6	240.0
C.V. (%) Error A		8.0	19.9
F (5%)		S	S
Control		1572	871
100% RDF		2049	989
SSNM		2067	1022
50% RDF		1878	1382
C.D. (5%) Bi-Bj		235.9	255.5
C.V. (%) ErrorB		12.6	24.2
F (5%)		S	S

A-42

Table 16: Effect of plant density and nutrient management practices on performance of hybrids in Kharif season in Dholi.

Hybrid	Density	Nutrient management	Grain yield (Kg/ha)	Stover yield (kg/ha)	Plant height (cm)	Days of flowering	Days of maturity	Effective tillers/m ²	Spike length (cm)
Pioneer 3540	60x20 cm	RDF	4090	1948	98.8	92.7	128.7	326	11.5
		STCR	4320	2057	100.3	94.0	124.0	334	11.6
		SSNM	3990	1900	96.8	91.7	124.3	323	10.9
	50x20 cm	RDF	4090	1948	99.2	92.3	124.7	324	11.4
		STCR	4280	2038	100.6	92.7	127.3	332	11.7
		SSNM	3910	1862	93.4	94.0	129.0	322	11.1
Rasi 4595	60x20 cm	RDF	4070	1938	98.5	93.0	129.7	326	11.3
		STCR	4240	2019	99.5	93.3	127.3	331	11.5
		SSNM	4080	1943	97.6	92.7	123.7	323	11.0
	50x20 cm	RDF	4090	1948	98.8	92.0	124.3	328	11.2
		STCR	4190	1995	98.9	92.7	125.3	330	11.5
		SSNM	4020	1914	97.8	92.7	128.0	324	11.1
Mean of location			4114	1959.1	98.3	92.8	126.4	327	11.3
Pioneer 3540			4113	1959	98.2	92.9	126.3	327	11.4
Rasi 4595			4115	1960	98.5	92.7	126.4	327	11.3
CD at 5%			NS	NS	NS	NS	NS	NS	0.02
CV (%)			0.11	0.10	6.1	0.31	1.5	1.7	0.12
60x20 cm			4132	1967	98.6	92.9	126.3	327	11.3
50x20 cm			4097	1951	98.1	92.7	126.4	327	11.3
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			2.1	2.2	2.4	0.67	1.2	1.4	2.4
RDF (120:60:40)			4085	1945	98.8	92.5	126.8	326	11.3
STCR (183:112:33)			4258	2027	99.8	93.2	126.0	332	11.6
SSNM (130:50:25)			4000	1905	96.4	92.8	126.3	323	11.0
CD at 5%			73.2	34.85	1.0	NS	NS	4.0	0.39
CV (%)			2.5	2.1	1.2	1.4	1.2	1.4	4.0

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A-44

Table 17: Effect of planting density and nutrient management on the performance of mustard in Rabi season in Kalyani.

Hybrids	Density	Nutrient management	Mustard seed yield (kg/ha)	Pod/plant	Branch/plant	Seeds/pod	Plant height (cm)	Maize equivalent yield/system productivity
P3077	60x20 cm	RDF	1310	229.0	6.0	14.1	160.0	13594
		STCR	1458	241.0	6.7	15.2	172.3	18535
		SSNM	1420	235.3	6.3	14.4	169.3	15507
	50x20 cm	RDF	1462	252.3	6.9	15.4	186.3	15338
		STCR	1651	263.7	8.2	17.7	194.7	19852
		SSNM	1559	257.3	7.5	16.3	177.3	18042
Kaveri 50	60x20 cm	RDF	983	214.0	4.5	10.7	136.0	11651
		STCR	1018	222.3	5.2	12.0	142.0	14384
		SSNM	949	216.3	4.8	11.7	140.7	13694
	50x20 cm	RDF	1069	227.3	5.0	12.9	147.7	10679
		STCR	1125	236.7	5.8	13.9	158.7	17724
		SSNM	1261	231.0	5.3	13.0	155.3	15920
Mean of location			1272	235.4	6.0	13.9	161.7	15410
P3077			1477	246.3	6.9	15.5	176.7	16811
Kaveri 50			1068	224.4	5.1	12.4	146.7	14009
CD at 5%			154.2	2.52	1.21	1.43	3.71	2020.8
CV (%)			8.5	0.75	14.1	7.1	1.60	9.14
60x20 cm			1190	226.3	5.6	13.0	153.4	14561
50x20 cm			1355	244.4	6.4	14.9	170.0	16259
CD at 5%			26.8	0.49	NS	0.94	1.23	1610.1
CV (%)			2.3	0.22	39.7	7.3	0.82	11.3
RDF			1206	230.7	5.6	13.3	157.5	12815
STCR			1313	240.4	6.5	14.7	166.9	17624
SSNM			1297	235.0	6.0	13.9	160.7	15791
CD at 5%			44.1	1.01	NS	NS	2.05	1488.1
CV (%)			4.0	0.50	18.6	12.0	1.46	11.2

A-45

Table 18: Effect of planting density and nutrients management practices on the performance of hybrids in Kharif season in Godhra.

Genotype	Density	Nutrient	Chickpea Grain yield (kg/ha)	Fodder yield (kg/ha)	Plant height (cm)	Pods/plant	Plant stand/plot	1000 seed wt (gm)	Primary branches/plant	Secondary branches/plant
GAYMH-1	60x25 cm	RDF	1611	1194	35.3	265.0	350.0	190.0	60.7	98.0
		STCR	1750	1250	37.7	262.3	347.0	183.3	59.3	88.0
		SSNM	1917	1444	37.7	283.0	321.7	183.3	76.7	99.3
	60x20 cm	RDF	1722	1278	37.7	292.0	311.3	173.3	65.0	85.0
		STCR	1778	1306	42.3	297.7	330.0	210.0	65.7	97.7
		SSNM	1861	1389	39.0	332.7	337.0	176.7	59.7	95.3
Gujarat Chickpea-1	60x25 cm	RDF	2417	1750	49.3	358.3	345.7	203.3	61.7	117.0
		STCR	2361	1833	50.7	385.3	331.0	186.7	65.3	101.3
		SSNM	2167	1667	48.0	331.7	339.3	196.7	61.3	111.0
	60x20 cm	RDF	2667	2056	46.7	367.3	354.3	193.3	64.3	97.0
		STCR	2361	1750	46.7	348.0	335.3	193.3	62.7	95.3
		SSNM	2083	1611	49.0	337.3	289.3	190.0	52.3	92.0
Mean of location			2057.9	1544.0	43.3	321.7	332.7	190.0	62.9	98.1
GAYMH-1			1773	1310	38.3	288.8	332.8	186.1	64.5	93.9
Gujarat Chickpea-1			2343	1778	48.4	354.7	332.5	193.9	61.3	102.3
CD at 5%			NS	NS	NS	32.5	NS	NS	NS	3.3
CV (%)			23.0	31.8	21.5	7.0	12.0	4.9	32.3	2.4
60x25 cm			2037	1523	43.1	314.3	339.1	190.6	64.2	102.4
60x20 cm			2079	1565	43.6	329.2	326.2	189.4	61.6	93.7
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			16.6	16.0	4.3	11.0	5.4	7.3	11.5	15.5
RDF (120:60:00)			2104	1569	42.3	320.7	340.3	190.0	62.9	99.3
STCR (75:20:50)			2063	1535	44.3	323.3	335.8	193.3	63.3	95.6
SSNM (140:30:37)			2007	1528	43.4	321.2	321.8	186.7	62.5	99.4
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			13.4	15.4	10.6	14.9	7.9	8.7	14.7	14.3

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Genotype	Density	Nutrient	Grain income (kg/ha)	Fodder income (kg/ha)	Gross Realization income	Net returns (Rs./ha)	B:C ratio
GAYMH-1	60x25 cm	RDF	80556	3583	84139	62741	3.93
		STCR	87500	3750	91250	69852	4.26
		SSNM	95833	4333	100167	78769	4.68
	60x20 cm	RDF	86111	3833	89944	68546	4.20
		STCR	88889	3917	92806	71408	4.34
		SSNM	93056	4167	97222	75824	4.54
Gujarat Chickpea-1	60x25 cm	RDF	120833	5250	126083	104685	5.89
		STCR	118056	5500	123556	102158	5.77
		SSNM	108333	5000	113333	91935	5.30
	60x20 cm	RDF	133333	6167	139500	118102	6.52
		STCR	118056	5250	123306	101908	5.76
		SSNM	104167	4833	109000	87602	5.09
Mean of location			102894	4632	107525	86127	5.03
GAYMH-1			88657	3931	92588	71190	4.33
Gujarat Chickpea-1			117130	5333	122463	101065	5.72
CD at 5%							
CV (%)							
60x25 cm			101852	4569	106421	85023	4.97
60x20 cm			103935	4694	108630	87232	5.08
CD at 5%							
CV (%)							
RDF (120:60:00)			105208	4708	109917	88519	5.14
STCR (75:20:50)			103125	4604	107729	86331	5.03
SSNM (140:30:37)			100347	4583	104931	83533	4.90

CD at 5%
CV (%)

Total cost of cultivation: 21398/- INR

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Table 19: Effect of planting density and nutrient management practices on the performance of hybrids in Kharif season in Pantnagar.

Hybrids	Density	Nutrient management	Wheat Grain yield (kg/ha)	Stover yield (kg/ha)	Tillers/m ²	Plant height (cm)	1000-grain weight (gram)	Net return (Rs./ha)	B:C ratio
4212 (Rasi seeds)	67.5x20 cm	100% RDF	4890	7478	326.7	88.1	44.3	49422	1.64
		STCR	4825	7873	330.0	88.7	44.1	48353	1.61
		SSNM	4912	7018	325.0	87.8	45.1	49779	1.66
	67.5x15 cm	100% RDF	4934	8224	333.3	87.8	44.3	50135	1.67
		STCR	4759	7588	323.3	86.6	44.2	47284	1.57
		SSNM	4978	7829	310.0	88.6	43.4	50848	1.69
P 3377 (Pioneer)	67.5x20 cm	100% RDF	4978	8114	326.7	89.3	44.1	50848	1.69
		STCR	5022	7917	331.7	89.1	45.3	51560	1.72
		SSNM	4978	8311	325.0	86.9	44.8	50848	1.69
	67.5x15 cm	100% RDF	5066	8575	306.7	89.4	45.7	52273	1.74
		STCR	4978	8158	320.0	89.1	44.3	50848	1.69
		SSNM	4956	7917	321.7	90.6	44.9	50491	1.68
Mean of location			4939.7	7916.7	323.3	88.5	44.5	50224.0	1.67
4212 (Rasi seeds)			4883	7668	324.7	87.9	44.2	49303	1.64
P 3377(Pioneer)			4996	8165	321.9	89.1	44.8	51145	1.70
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			12.6	11.6	9.2	8.7	1.4	20.2	20.2
67.5x20 cm			4934	7785	327.5	88.3	44.6	50135	1.67
67.5x15 cm			4945	8048	319.2	88.7	44.4	50313	1.67
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			8.4	6.8	16.2	5.5	2.1	13.5	13.5
100% RDF (120:60:40)			4967	8098	323.3	88.7	44.6	50669	1.69
STCR (212:106:87)			4896	7884	326.3	88.4	44.5	49511	1.65
SSNM (120:30:46)			4956	7769	320.4	88.5	44.5	50491	1.68
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			7.7	7.2	7.7	3.3	4.1	12.4	12.4

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A-48

Hybrids	Density	Nutrient management	Maize equivalent yield (kg/ha) of MW cropping system	Net return (Rs./ha) of system	B:C ratio of system	N uptake (kg/ha)		P uptake (kg/ha)		K uptake (kg/ha)	
						Grain	Stover	Grain	Stover	Grain	Stover
4212 (Rasi seeds)	67.5x20 cm	100% RDF	10530	86754	1.52	64.6	33.8	11.1	9.0	21.9	95.9
		STCR	10772	84092	1.34	64.4	31.2	10.9	9.5	23.3	102.6
		SSNM	10391	85830	1.53	64.6	32.0	11.2	8.5	20.3	92.8
	67.5x15 cm	100% RDF	11232	95937	1.67	62.1	38.8	11.4	10.5	23.1	109.7
		STCR	11360	91713	1.45	61.1	29.2	10.8	10.0	24.3	100.2
		SSNM	11476	100238	1.78	65.0	31.0	11.9	10.3	23.1	98.5
P 3377 (Pioneer)	67.5x20 cm	100% RDF	10823	90763	1.59	66.1	31.3	12.0	9.3	24.1	103.9
		STCR	11254	90670	1.44	68.1	30.5	11.5	10.6	24.6	100.9
		SSNM	10782	91169	1.63	63.4	33.6	12.3	10.8	21.8	106.6
	67.5x15 cm	100% RDF	11482	99359	1.73	61.6	30.7	12.0	9.9	22.6	112.1
		STCR	11739	96881	1.53	64.4	35.2	12.2	10.6	24.6	105.3
		SSNM	11109	95227	1.69	68.2	31.1	10.9	11.1	22.6	102.7
Mean of location			11079.2	92386.0	1.57	64.5	32.4	11.5	10.0	23.0	102.6
4212 (Rasi seeds)			10960	90761	1.55	63.6	32.7	11.2	9.6	22.7	99.9
P 3377(Pioneer)			11198	94011	1.60	65.3	32.1	11.8	10.4	23.4	105.2
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			2.5	4.0	4.2	18.8	35.3	19.4	10.0	29.8	25.4
67.5x20 cm			10759	88213	1.51	65.2	32.1	11.5	9.6	22.7	100.4
67.5x15 cm			11400	96559	1.64	63.7	32.7	11.5	10.4	23.4	104.7
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			9.9	16.2	16.0	6.8	15.1	9.3	15.0	26.5	10.6
100% RDF (120:60:40)			11017	93203	1.63	63.6	33.6	11.6	9.7	22.9	105.4
STCR (212:106:87)			11281	90839	1.44	64.5	31.5	11.4	10.2	24.2	102.2
SSNM (120:30:46)			10940	93116	1.66	65.3	31.9	11.6	10.2	22.0	100.2
CD at 5%			NS	NS	0.12	NS	NS	NS	NS	NS	NS
CV (%)			5.3	8.6	8.7	9.1	27.0	9.3	15.7	25.6	10.6

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A-49

Hybrids	Density	Nutrient management	Total N uptake (kg/ha) (Grain + stover)			Residual available (kg/ha)			organic carbon %	Soil PH	Bulk density (Mg/m ³) at 0-15 cm depth
			N	P	K	N	P	K			
4212 (Rasi seeds)	67.5x20 cm	100% RDF	98.4	20.1	117.8	229.0	20.1	206.7	0.68	7.20	1.38
		STCR	95.7	20.4	125.9	242.0	24.7	237.7	0.68	7.30	1.41
		SSNM	96.7	19.7	113.1	240.3	20.0	220.0	0.67	7.27	1.35
	67.5x15 cm	100% RDF	100.8	21.9	132.8	237.7	20.5	213.0	0.67	7.07	1.38
		STCR	90.4	20.8	124.4	248.0	27.4	228.7	0.68	7.43	1.38
		SSNM	96.0	22.2	121.6	238.3	20.1	219.7	0.67	7.10	1.39
P 3377 (Pioneer)	67.5x20 cm	100% RDF	97.4	21.4	127.9	236.7	20.6	224.7	0.68	7.27	1.37
		STCR	98.6	22.1	125.5	238.0	26.3	233.0	0.68	7.30	1.38
		SSNM	97.0	23.1	128.5	237.0	20.1	218.7	0.68	7.10	1.38
	67.5x15 cm	100% RDF	92.3	21.8	134.7	233.3	20.4	212.3	0.72	7.23	1.39
		STCR	99.6	22.8	129.9	234.3	26.8	237.0	0.71	7.23	1.39
		SSNM	99.3	22.0	125.3	241.3	20.4	220.7	0.70	7.30	1.40
Mean of location			96.8	21.5	125.6	238.0	22.3	222.7	0.69	7.23	1.38
4212 (Rasi seeds)			96.3	20.9	122.6	239.2	22.1	220.9	0.68	7.23	1.38
P 3377(Pioneer)			97.4	22.2	128.6	236.8	22.5	224.4	0.70	7.24	1.38
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			21.0	14.6	26.2	4.4	5.3	6.7	7.3	3.4	2.1
67.5x20 cm			97.3	21.1	123.1	237.2	22.0	223.4	0.68	7.24	1.38
67.5x15 cm			96.4	21.9	128.1	238.8	22.6	221.9	0.69	7.23	1.39
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			7.8	8.2	12.1	4.5	5.8	7.7	3.8	3.8	2.8
100% RDF (120:60:40)			97.2	21.3	128.3	234.2	20.4	214.2	0.69	7.19	1.38
STCR (212:106:87)			96.0	21.5	126.4	240.6	26.3	234.1	0.69	7.32	1.39
SSNM (120:30:46)			97.3	21.7	122.1	239.3	20.2	219.8	0.68	7.19	1.38
CD at 5%			NS	NS	NS	NS	1.17	16.0	NS	NS	NS
CV (%)			10.2	9.5	10.0	5.5	6.1	8.3	6.0	3.9	2.3

A-50

Table 20: Effect of planting density and nutrient management practices on the performance of hybrid maize during Rabi season in Bahraich.

Density	Nutrient	Hybrids	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Cob length (cm)	Grains row/cobs	Grains/row
H-9682	60x20 cm	RDF	6337	6995	82.9	82.7	197.0	16.7	17.7	26.7
		STCR	6610	7307	82.9	82.8	205.0	17.8	19.3	31.7
		SSNM	6857	7670	82.9	82.8	202.3	17.0	18.0	28.7
	50x20 cm	RDF	6150	7097	99.8	99.7	198.0	15.9	15.3	24.7
		STCR	6343	7397	99.9	99.7	203.0	16.6	17.3	26.7
		SSNM	6633	7533	99.9	99.8	202.0	16.2	16.3	28.0
Dekalb 900	60x20 cm	RDF	6643	7537	82.9	82.8	194.3	17.5	18.7	31.7
		STCR	7063	8107	82.8	82.7	200.3	18.4	21.7	33.3
		SSNM	7262	8447	82.8	82.7	195.3	16.9	20.3	31.0
	50x20 cm	RDF	6653	7548	99.7	99.5	190.0	15.9	16.0	29.0
		STCR	6870	7777	99.9	99.8	195.3	17.4	17.7	29.3
		SSNM	6727	7427	99.7	99.5	193.0	16.5	16.7	28.3
Mean of location			6679	7570	91.3	91.2	198.0	16.9	17.9	29.1
H-9682			6488	7333	91.4	91.3	201.2	16.7	17.3	27.7
Dekalb 900			6870	7807	91.3	91.2	194.7	17.1	18.5	30.4
CD at 5%			2.9	68.3	0.1	0.0	1.1	0.2	0.4	1.7
CV (%)			0.0	0.6	0.0	0.0	0.4	0.8	1.6	4.0
60x20 cm			6795	7677	82.9	82.8	199.1	17.4	19.3	30.5
50x20 cm			6563	7463	99.8	99.7	196.9	16.4	16.6	27.7
CD at 5%			9.1	38.9	0.1	0.1	0.7	0.1	0.5	0.6
CV (%)			0.1	0.6	0.1	0.1	0.4	0.8	2.9	2.1
RDF (200:60:60)			6446	7294	91.3	91.2	194.8	16.5	16.9	28.0
STCR (200:50:50)			6722	7647	91.4	91.2	200.9	17.5	19.0	30.3
SSNM (225:60:80)			6870	7769	91.3	91.2	198.2	16.7	17.8	29.0
CD at 5%			19.3	56.5	NS	NS	0.8	0.1	0.6	0.5
CV (%)			0.3	0.9	0.1	0.1	0.5	0.9	3.7	2.1

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A-52

Table 21: Effect of planting density and nutrient management practices on the performance of hybrid in the Rabi Season (rice-maize) in Dholi.

Hybrid	Density	Nutrient management	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
Ajeet 3436	60 x 20 cm	RDF	8293	4365	11378	99.1	97.3	161.0	111.0
		STCR	9298	4894	12956	99.6	99.6	166.7	112.0
		SSNM	8096	4261	11400	99.6	100.7	168.0	112.0
	50 x 20 cm	RDF	10870	5722	14800	116.0	113.8	177.3	112.0
		STCR	10121	5327	14067	115.8	116.9	165.3	112.0
		SSNM	8336	4388	11511	115.3	115.1	163.0	111.3
Pioneer 3335	60 x 20 cm	RDF	9369	4931	13089	99.6	98.7	201.7	111.0
		STCR	9813	5165	13378	99.1	99.6	211.0	111.0
		SSNM	9483	4991	13044	99.6	99.1	202.0	112.0
	50 x 20 cm	RDF	10142	5338	14022	116.2	114.7	192.3	109.3
		STCR	10516	5535	14711	116.2	116.4	215.0	110.0
		SSNM	9927	5225	13978	116.2	117.1	207.7	109.7
Mean of location			9522	5011.9	13194.4	107.7	107.4	186	111.1
Ajeet 3436			9169	4826	12685	107.6	107.2	167	111.7
Pioneer 3335			9875	5198	13704	107.8	107.6	205	110.5
CD at 5%			319.9	168.5	442.8	NS	NS	3.6	NS
CV (%)			2.4	2.3	2.3	0.6	1.0	1.4	1.2
60x20 cm			9059	4768	12541	99.4	99.1	185	111.5
50x20 cm			9986	5256	13848	116.0	115.7	187	110.7
CD at 5%			303.6	160.0	428.0	0.6	0.5	NS	NS
CV (%)			3.5	3.4	3.5	0.6	0.5	3.4	1.7
RDF (120:60:40)			9668	5089	13322	107.7	106.1	183	110.8
STCR (183:102:100)			9937	5230	13778	107.7	108.1	190	111.3
SSNM (112:45:42)			8961	4716	12483	107.7	108.0	185	111.3
CD at 5%			660.0	347.4	912.3	NS	1.2	NS	NS
CV (%)			8.0	8.1	8.0	0.9	1.3	3.6	1.3

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A-54

Table 22: Effect of planting density and nutrient management practices on the performance of hybrids in Rabi season in Kalyani.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking
P3396	60x20 cm	RDF	6586	9202	77.9	75.1	242.3	86.7	88.7
		STCR	7805	10020	80.3	78.5	261.3	88.3	91.0
		SSNM	7281	9456	79.0	77.1	255.7	88.0	90.7
	50x20 cm	RDF	7294	9412	94.0	91.2	256.3	85.7	87.7
		STCR	8614	10518	95.3	93.0	273.0	88.0	90.3
		SSNM	8385	10153	94.4	91.7	265.7	85.7	88.0
JKMH502	60x20 cm	RDF	8007	9948	79.5	76.8	254.0	92.0	94.0
		STCR	9321	11417	80.6	78.1	270.0	92.0	94.0
		SSNM	8719	10824	79.4	77.0	264.3	91.0	93.7
	50x20 cm	RDF	8800	10625	95.4	93.0	258.7	91.0	93.0
		STCR	10051	11911	97.3	95.0	276.7	91.7	94.0
		SSNM	9456	11272	96.1	93.8	266.7	91.7	93.7
Mean of location			8360	10396.5	87.4	85.0	262.1	89.3	91.6
P3396			7661	9794	86.8	84.4	259.1	87.1	89.4
JKMH502			9059	11000	88.0	85.6	265.1	91.6	93.7
CD at 5%			1395.5	546.5	NS	NS	NS	1.10	1.66
CV (%)			11.6	3.7	1.38	1.98	3.55	0.86	1.26
60x20 cm			7953	10145	79.5	77.1	257.9	89.7	92.0
50x20 cm			8767	10649	95.4	93.0	266.2	88.9	91.1
CD at 5%			468.5	357.4	0.76	1.13	3.2	NS	NS
CV (%)			6.1	3.7	0.94	1.43	1.32	1.15	1.06
RDF (120:60:60)			7672	9797	86.7	84.0	252.8	88.8	90.8
STCR (173:16:20)			8948	10967	88.4	86.2	270.3	90.0	92.3
SSNM (120:40:46)			8460	10426	87.2	84.9	263.1	89.1	91.5
CD at 5%			348.9	317.2	0.62	0.64	2.14	0.80	0.88
CV (%)			4.8	3.5	0.82	0.87	0.95	1.03	1.11

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A-55

Hybrids:	Density	Nutrient management	100-seed weight (g)	Net returns (Rs./ha)	B:C ratio	Barrenness (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
P 3396	60x20 cm	RDF	25.7	29863	1.60	0.24	11.2	14.1	14.0	26.9
		STCR	30.0	47074	2.01	0.19	13.6	15.3	16.0	28.1
		SSNM	28.7	39581	1.82	0.20	12.6	14.7	15.2	28.2
	50x20 cm	RDF	26.7	38364	1.77	0.23	12.8	14.6	14.4	28.9
		STCR	33.0	56785	2.21	0.19	14.8	16.3	15.8	31.4
		SSNM	29.0	52833	2.12	0.17	13.9	15.6	15.5	30.5
JKMH 502	60x20 cm	RDF	29.7	46917	1.95	0.18	12.6	14.4	15.9	32.6
		STCR	33.3	63800	2.40	0.16	14.4	15.3	16.7	33.9
		SSNM	31.0	56831	2.16	0.15	13.0	14.6	15.9	33.5
	50x20 cm	RDF	30.7	56436	2.14	0.15	14.4	15.7	16.1	35.3
		STCR	37.0	74021	2.58	0.13	16.2	16.6	17.9	36.8
		SSNM	34.3	65682	2.37	0.14	15.4	16.0	16.9	35.7
Mean of location			30.8	52348.8	2.10	0.18	13.7	15.3	15.9	31.8
P3396			28.8	44083	1.92	0.20	13.1	15.1	15.2	29.0
JKMH502			32.7	60614	2.27	0.15	14.3	15.4	16.6	34.6
CD at 5%			2.90	16106.0	0.34	0.04	0.58	NS	1.06	3.70
CV (%)			6.6	21.5	11.2	16.3	3.0	5.4	4.7	8.1
60x20 cm			29.7	47344	1.99	0.19	12.9	14.7	15.6	30.5
50x20 cm			31.8	57353	2.20	0.17	14.6	15.8	16.1	33.1
CD at 5%			NS	5541.0	0.11	0.02	1.08	0.85	NS	1.78
CV (%)			14.6	11.4	5.8	10.1	8.5	6.0	5.7	6.0
RDF (120:60:60)			28.2	42895	1.87	0.20	12.8	14.7	15.1	30.9
STCR (173:16:20)			33.3	60420	2.30	0.17	14.7	15.9	16.6	32.5
SSNM (120:40:46)			30.8	53732	2.12	0.16	13.7	15.2	15.9	32.0
CD at 5%			1.82	4299.7	0.09	0.02	0.66	0.39	0.41	0.62
CV (%)			6.8	9.5	5.8	11.5	5.5	3.0	3.0	2.3

A-56

Table 23: Effect of planting density and nutrient management practices on the performance of hybrids in Rabi season in Coimbatore.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% Silking
CO H 6	60x20 cm	RDF	7384	12093	79.3	76.2	239.5	54.7	58.3
		STCR	7021	11502	78.8	76.8	237.1	52.7	56.7
		SSNM	5721	9396	78.0	75.5	233.9	52.3	56.0
	50x20 cm	RDF	8098	13213	94.7	91.9	240.6	54.3	58.3
		STCR	7703	12566	93.8	91.2	238.1	53.0	56.7
		SSNM	6282	10267	93.2	90.3	235.3	52.0	56.0
CO H 7	60x20 cm	RDF	7786	12854	80.4	77.5	243.8	55.7	59.3
		STCR	7407	12224	78.2	76.0	241.4	54.0	58.0
		SSNM	6036	9987	78.4	75.3	238.5	53.7	57.3
	50x20 cm	RDF	8491	13956	94.3	91.0	245.1	55.0	58.7
		STCR	8074	13272	93.8	91.4	242.5	53.3	57.0
		SSNM	6589	10841	94.1	91.6	239.4	52.7	56.3
Mean of location			7216	11848	86.4	83.7	239.6	53.6	57.4
CO H 6			7035	11506	86.3	83.6	237.4	53.2	57.0
CO H 7			7397	12189	86.5	83.8	241.8	54.1	57.8
CD at 5%			NS	204.8	NS	NS	NS	0.9	0.2
CV (%)			5.9	1.2	1.0	2.7	3.5	1.1	0.3
60x20 cm			6893	11343	78.9	76.2	239.0	53.8	57.6
50x20 cm			7539	12352	94.0	91.2	240.2	53.4	57.2
CD at 5%			246.5	506.3	2.4	3.1	NS	NS	NS
CV (%)			3.7	4.6	3.0	3.9	5.4	3.5	3.1
RDF (250:75:75)			7940	13029	87.2	84.2	242.2	54.9	58.7
STCR (181:91:37.5)			7551	12391	86.1	83.8	239.8	53.3	57.1
SSMM (110:61:90)			6157	10123	85.9	83.2	236.8	52.7	56.4
CD at 5%			443.0	520.9	NS	NS	NS	1.0	1.0
CV (%)			7.1	5.1	3.8	3.6	6.2	2.2	1.9

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Hybrids	Density	Nutrient management	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
CO H 6	60x20 cm	RDF	38.6	67888	2.24	18.2	16.2	14.9	35.2
		STCR	38.1	63210	2.18	17.3	15.7	14.3	34.3
		SSNM	37.4	42913	1.82	15.1	14.9	12.4	32.8
	50x20 cm	RDF	38.1	76713	2.32	17.5	15.5	14.7	34.7
		STCR	37.5	71494	2.27	16.7	15.1	14.1	33.9
		SSNM	36.7	49199	1.89	14.4	14.3	12.3	32.2
CO H 7	60x20 cm	RDF	38.9	74674	2.36	18.9	16.3	15.2	36.2
		STCR	38.5	69722	2.30	18.1	15.8	14.7	35.5
		SSNM	37.9	48234	1.92	15.9	15.1	12.4	34.1
	50x20 cm	RDF	38.3	83351	2.44	18.1	15.7	14.9	35.6
		STCR	37.8	77770	2.38	17.2	15.3	14.4	34.8
		SSNM	37.2	54373	1.98	14.8	14.4	12.3	33.2
Mean of location			37.9	64962	2.17	16.9	15.4	13.9	34.4
CO H 6			37.7	61903	2.12	16.5	15.3	13.8	33.9
CO H 7			38.1	68021	2.23	17.2	15.4	14.0	34.9
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			2.0	8.8	4.7	3.3	4.9	4.4	2.7
60x20 cm			38.2	61107	2.14	17.3	15.7	14.0	34.7
50x20 cm			37.6	68817	2.21	16.5	15.1	13.8	34.1
CD at 5%			NS	2747.6	0.05	0.4	0.4	NS	NS
CV (%)			5.1	4.6	2.5	2.7	3.1	1.8	6.0
RDF (250:75:75)			38.5	75656	2.34	18.2	15.9	14.9	35.4
STCR (181:91:37.5)			38.0	70549	2.28	17.3	15.5	14.4	34.6
SSMM (110:61:90)			37.3	48680	1.90	15.1	14.7	12.3	33.1
CD at 5%			NS	6004.7	0.11	0.8	0.7	0.4	1.3
CV (%)			5.4	10.7	5.8	5.2	5.4	3.6	4.4

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Table 24: Effect of planting density and nutrient management practices on performance of full season hybrids in Rabi season in Karimnagar.

Hybrids	Density	Nutrient	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Days to 50% tasseling	Days to 50% silking	Plant height (cm)	Ear height (cm)
NK 6240	60x20 cm	SSNM	9136	12648	65.3	67.6	70.3	74.0	269.7	122.7
		STCR	9276	13130	66.2	65.8	71.0	73.0	264.7	117.3
		RDF	9562	13259	72.9	71.6	70.3	74.3	267.0	124.0
	50x20 cm	SSNM	9342	12921	86.0	83.8	71.0	74.3	252.3	121.0
		STCR	9366	12921	82.2	82.7	71.0	74.7	258.0	122.3
		RDF	9714	13443	86.0	83.8	70.7	74.3	271.7	122.7
K 3110	60x20 cm	SSNM	9402	12999	68.9	70.4	72.7	74.7	292.7	137.3
		STCR	9785	13445	68.4	67.1	70.7	73.3	288.7	129.0
		RDF	9862	13745	69.1	68.9	73.0	75.7	292.0	134.0
	50x20 cm	SSNM	9417	12819	92.4	79.3	72.3	75.3	286.0	136.0
		STCR	9762	13401	92.7	81.8	72.0	74.3	290.3	141.3
		RDF	9923	13505	89.6	84.0	71.3	74.3	294.7	139.0

Mean of location 9545.7 13186.3 78.3 75.6 71.4 74.4 277.3 128.9

NK 6240	9399	13054	76.4	75.9	70.7	74.1	263.9	121.7
K 3110	9692	13319	80.2	75.3	72.0	74.6	290.7	136.1
CD at 5%	NS	NS	NS	NS	NS	NS	15.6	3.4
CV (%)	3.4	3.8	8.9	4.3	2.6	1.4	3.9	1.8

60x20 cm	9504	13204	68.5	68.6	71.3	74.2	279.1	127.4
50x20 cm	9587	13168	88.1	82.6	71.4	74.6	275.5	130.4
CD at 5%	NS	NS	6.8	7.3	NS	NS	NS	NS
CV (%)	6.4	8.1	9.4	10.4	0.7	1.1	2.7	3.7

SSMM (190:84:143)	9324	12846	78.2	75.3	71.6	74.6	275.2	129.3
STCR (260:94:61)	9547	13224	77.4	74.3	71.2	73.8	275.4	127.5
RDF (200:60:50)	9765	13488	79.4	77.1	71.3	74.7	281.3	129.9
CD at 5%	300.8	486.0	NS	NS	NS	NS	NS	NS
CV (%)	3.6	4.3	6.9	7.2	2.1	1.8	4.2	5.6

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Table 25: Effect of planting density and nutrient management practices on the performance of hybrids in Rabi season in Vagarai.

Hybrids	Density	Nutrient Management	Grain yield (kg/ha)	Stover yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	100 grain weight (g)
Co (TNAU Maize hybrid)	Normal (60x20 cm)	RDF	8641	12299	10930	80.4	69.6	231.7	54.3	57.7	37.2
		STCR	8818	12043	11564	78.7	76.7	228.0	54.3	57.7	37.6
		SSNM	9607	13401	11491	82.0	80.2	222.9	55.0	57.7	36.8
	High (50x20 cm)	RDF	9034	12205	10742	83.1	81.1	224.5	55.0	58.7	36.5
		STCR	9358	11591	11346	83.1	82.2	231.7	55.0	58.7	36.3
		SSNM	8543	11267	10352	80.0	80.0	218.8	54.7	58.3	35.9
P-3502 (Pioneer hybrid)	Normal (60x20 cm)	RDF	10632	9290	12319	83.8	81.8	208.1	57.3	60.0	33.4
		STCR	9184	9098	10830	82.0	80.2	221.5	57.7	61.0	33.8
		SSNM	9439	9688	12211	84.9	80.9	200.2	57.7	62.0	31.1
	High (50x20 cm)	RDF	10356	11093	12833	93.6	89.8	220.9	58.0	61.0	31.5
		STCR	11966	10530	14683	94.0	91.3	214.1	58.0	60.3	29.8
		SSNM	10810	11056	13255	97.3	94.7	221.0	57.7	60.0	30.9
Mean of location			9699	11130	11880	85.2	82.4	220.3	56.2	59.4	34.2
Co (TNAU Maize hybrid)			9000	12134	11071	81.2	78.3	226.2	54.7	58.1	36.7
P-3502 (Pioneer hybrid)			10398	10126	12688	89.3	86.4	214.3	57.7	60.7	31.7
CD at 5%			1230	NS	1248	3.7	0.9	NS	NS	NS	1.6
CV (%)			8.8	15.0	7.3	3.0	0.8	10.0	5.8	5.4	3.3
Normal (60x20 cm)			9387	10970	11557	82.0	78.2	218.7	56.1	59.3	35.0
High (50x20 cm)			10011	11290	12202	88.5	86.5	221.8	56.4	59.5	33.5
CD at 5%			NS	NS	NS	2.2	3.6	NS	NS	NS	NS
CV (%)			13.9	10.8	15.4	2.8	4.8	4.1	0.7	1.7	6.5
RDF			9666	11222	11706	85.2	80.6	221.3	56.2	59.3	34.6
STCR			9832	10816	12106	84.4	82.6	223.8	56.3	59.4	34.4
SSNM			9600	11353	11827	86.1	83.9	215.7	56.3	59.5	33.7
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			11.8	11.4	15.4	6.3	7.5	5.8	1.3	2.3	5.1

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Hybrids	Density	Nutrient Management	Shelling (%)	Barrenness index	Net return (Rs./ha)	B:C ratio	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
Co (TNAU Maize hybrid)	Normal (60x20 cm)	RDF	81.2	6.2	81873	2.45	17.9	4.3	14.5	32.1
		STCR	76.3	4.8	88953	2.71	17.5	4.2	14.5	31.4
		SSNM	83.3	5.8	99316	2.83	17.5	4.1	14.3	30.2
	High (50x20 cm)	RDF	83.9	8.6	88167	2.56	16.7	4.1	14.1	28.5
		STCR	83.0	8.4	97592	2.87	16.8	4.2	14.3	29.1
		SSNM	82.3	9.7	82282	2.51	16.6	4.1	14.1	30.0
P-3502 (Pioneer hybrid)	Normal (60x20 cm)	RDF	85.6	8.7	113730	3.02	16.9	4.2	15.5	33.9
		STCR	84.9	12.5	94806	2.82	17.2	4.2	15.6	33.4
		SSNM	77.1	6.0	96618	2.78	17.4	4.2	15.0	37.0
	High (50x20 cm)	RDF	80.9	12.1	109320	2.94	17.2	4.3	15.6	33.8
		STCR	81.4	4.1	139313	3.67	17.5	4.3	15.7	35.7
		SSNM	82.0	9.1	118549	3.18	17.1	4.1	15.4	34.6
Mean of location			81.8	8.0	100876	2.86	17.2	4.2	14.9	32.5
Co (TNAU Maize hybrid)			81.7	7.3	89697	2.66	17.2	4.2	14.3	30.2
P-3502 (Pioneer hybrid)			82.0	8.8	112056	3.07	17.2	4.2	15.5	34.7
CD at 5%			NS	NS	19674	0.35	NS	NS	0.9	2.1
CV (%)			4.0	48.9	14	8.46	2.9	1.7	4.1	4.4
Normal (60x20 cm)			81.4	7.4	95883	2.77	17.4	4.2	14.9	33.0
High (50x20 cm)			82.2	8.7	105870	2.96	17.0	4.2	14.9	32.0
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			5.6	60.7	21	13.65	2.9	3.6	3.1	3.7
RDF			82.9	8.9	98272	2.74	17.2	4.2	14.9	32.1
STCR			81.4	7.5	105166	3.02	17.3	4.2	15.0	32.4
SSNM			81.2	7.6	99191	2.82	17.1	4.1	14.7	33.0
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			8.0	47.7	18	11.63	3.0	3.1	3.4	6.3

Cont....

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Table 26: Effect of planting density and nutrient management practices on the performance of hybrids in Rabi season in Banswara.

Hybrids	Density	Nutrient management	Grain Yield (kg/ha)
BIO-9682	60x20 cm	RDF	7849
		SSNM	10078
		STCR	10411
	50x20 cm	RDF	8328
		SSNM	10917
		STCR	11250
BIO-9782	60x20 cm	RDF	8250
		SSNM	10667
		STCR	11806
	50x20 cm	RDF	10078
		SSNM	12751
		STCR	12996

Mean of location 10448

BIO 9682	9805
BIO 9782	11091

CD at 5% 472.4
CV (%) 3.2

60x20 cm	9843
50x20 cm	11053

CD at 5% 898.2
CV (%) 9.3

RDF (150:60:40)	8626
SSNM (208:59:66)	11103
STCR (234:119:64)	11616

CD at 5% 414.0
CV (%) 4.6

Cont....

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Table 27: Optimization of nutrient and plant geometry for zero-till Rabi maize in Hyderabad.

Method of nutrient application	Nutrient management	Planting density	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant Height (cm)	Test weight (g)
Farmer practice	Farmer practice	60x20 cm	9223	11180	74.8	71.8	239.7	30.5
		50x20 cm	8449	10037	88.7	78.2	226.7	31.3
		45x20 cm	8036	9123	96.0	82.3	223.0	29.4
	STCR	60x20 cm	9859	9937	77.1	73.5	258.7	35.1
		50x20 cm	8880	9190	84.9	83.3	222.0	31.3
		45x20 cm	7930	8560	97.1	90.1	227.7	27.1
	RDF	60x20 cm	8953	9480	74.5	72.5	257.7	33.4
		50x20 cm	8181	8710	84.7	81.4	230.7	31.3
		45x20 cm	8037	8498	93.5	84.4	232.3	29.0
Improved practice	Farmer practice	60x20 cm	9224	10480	76.7	73.2	261.7	32.1
		50x20 cm	8399	9517	84.3	84.0	231.3	31.6
		45x20 cm	8260	8967	92.5	87.3	214.0	29.1
	STCR	60x20 cm	10423	10790	78.2	71.0	250.3	34.0
		50x20 cm	8665	9773	87.5	79.1	234.7	32.0
		45x20 cm	8023	9090	95.2	88.6	232.0	29.7
	RDF	60x20 cm	9213	9630	78.2	71.5	266.3	32.4
		50x20 cm	8468	9013	86.5	80.0	244.7	31.7
		45x20 cm	8257	8593	93.2	83.0	229.3	29.3
Mean of location			8693.4	9476.0	85.8	79.7	237.9	31.1
Farmer practice			8616	9413	85.7	79.7	235.4	30.9
Improved practice			8770	9539	85.8	79.7	240.5	31.3
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			2.2	3.3	5.5	4.4	4.1	8.7
Farmer practice (250:118:60)			8599	9884	85.5	79.5	232.7	30.7
STCR (256:90:65)			8963	9557	86.7	80.9	237.6	31.5
RDF (240:80:80)			8518	8988	85.1	78.8	243.5	31.2
CD at 5%			244.14	322.54	NS	NS	6.73	NS
CV (%)			3.7	4.4	3.7	2.9	3.7	8.1
60x20 cm			9483	10249	76.6	72.2	255.7	32.9
50x20 cm			8507	9373	86.1	81.0	231.7	31.5
45x20 cm			8090	8805	94.6	86.0	226.4	28.9
CD at 5%			258.8	348.7	2.5	1.4	6.1	1.2
CV (%)			4.3	5.3	4.3	2.5	3.7	5.5

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Table 28: Long term trial on integrated nutrient management in maize-wheat cropping system in Pantnagar.

Treatment	Wheat grain yield (kg/ha)	Straw yield (kg/ha)	Days to spike initiation	Spike length (cm)	Plant height (cm)	Effective tillers /m ²	Grains/spike	100 grains weight (g)
T ₁	2556	5334	92.7	7.4	83.7	50.7	41.3	3.3
T ₂	4245	9078	87.0	8.2	99.9	88.7	50.2	3.8
T ₃	4067	8889	86.7	8.0	99.8	86.3	46.6	3.6
T ₄	3778	8656	88.0	7.7	97.1	83.3	43.0	3.4
T ₅	3423	8445	89.3	7.4	92.8	68.0	43.6	3.4
T ₆	3200	8356	87.0	7.5	95.1	79.0	43.0	3.4
T ₇	4490	9268	87.3	8.4	103.4	98.7	52.1	3.9
T ₈	4222	9200	86.7	8.2	101.8	89.7	49.0	3.7
T ₉	3978	8709	86.3	7.9	100.1	82.7	44.6	3.6
T ₁₀	4378	9189	88.7	8.1	99.5	91.0	51.5	3.8
T ₁₁	2867	8000	88.3	7.6	85.3	57.0	42.7	3.3
Mean	3745.9	8465.7	88.0	7.9	96.2	79.5	46.1	3.6
CD	225.8	385.1	2.0	0.7	4.8	11.9	3.1	0.2
CV (%)	3.5	2.7	1.3	5.0	2.9	8.8	3.9	2.8
Significance	S	S	S	S	S	S	S	S

Treatment	Maize equivalent yield of wheat (kg/ha)	Maize grain yield 2016 (kg/ha)	Maize equivalent yield of maize-wheat system (kg/ha)	Net return of maize-wheat system (Rs)	B:C ratio of maize - wheat system	pH	Electrical conductivity (dS/m)	Organic Carbon (%)
T ₁	3043	3463	6506	48915	1.23	7.19	0.13	0.72
T ₂	5054	5178	10232	81747	1.41	7.31	0.17	0.96
T ₃	4842	4939	9781	77218	1.37	7.14	0.15	0.92
T ₄	4498	4405	8903	66862	1.22	7.14	0.13	0.84
T ₅	4075	4568	8643	70514	1.49	6.89	0.10	1.08
T ₆	3810	4605	8415	114659	2.35	6.88	0.09	1.15
T ₇	5346	5727	11072	89473	1.45	6.98	0.14	1.21
T ₈	5027	5301	10327	82675	1.42	7.05	0.12	1.09
T ₉	4736	5034	9769	76909	1.36	6.95	0.10	1.03
T ₁₀	5212	5467	10679	87106	1.49	7.09	0.15	1.05
T ₁₁	3413	3998	7411	57526	1.32	6.87	0.09	0.97
Mean	4459.5	4789.6	9249.0	77600.5	1.46	7.05	0.12	1.00
CD	268.6	365.7	414.3	5892.7	0.12	0.17	0.03	0.03
CV (%)	3.5	4.5	2.6	4.5	4.6	1.4	15.1	1.6
Significance	S	S	S	S	S	S	S	S

Treatment details:

T ₁	Control (Unmanured)	T ₆	Maize + Cowpea with FYM 10 t/ha +Azatobactor
T ₂	100% RDF	T ₇	100% RDF + 5 t/ha FYM
T ₃	75% RDF	T ₈	75% RDF + 5 t/ha FYM
T ₄	50% RDF	T ₉	50% RDF + 5 t/ha FYM
T ₅	FYM 10t/ha + Azatobactor	T ₁₀	100% RDF + 5 kg Zn/ha

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Table 29: Weed management in maize systems in Dholi.

Treatments	Grain yield (kg/ha)	No. of Tillers / m ²	Plant height (cm)	Days of flowering	Days of maturity	Spike length (cm)	Spikelet/spike	1000 Grain Weight	Grain Weight/ m ²	Net Return	B:C Ratio
T ₁	3526	326.7	73.2	87.3	127.3	11.4	39.3	37.1	352.6	33923	0.54
T ₂	3828	354.3	71.3	85.7	127.7	11.5	42.0	37.1	382.9	57563	0.92
T ₃	3812	363.3	71.8	86.0	127.0	11.7	38.0	36.7	379.5	54740	0.87
T ₄	3912	379.7	71.4	87.3	127.3	11.4	40.7	37.8	391.2	42145	0.67
T ₅	3858	357.0	70.9	87.3	128.7	11.1	44.0	38.1	385.8	48169	0.77
T ₆	3525	357.3	73.3	89.3	127.7	11.2	39.3	36.8	352.5	38234	0.61
T ₇	3778	315.0	71.7	88.0	126.3	11.4	36.0	37.4	377.8	52326	0.83
T ₈	3866	349.0	72.0	87.3	125.7	11.5	38.3	37.3	386.6	40199	0.64
T ₉	4019	330.3	73.9	86.7	127.0	11.1	41.0	36.5	401.9	54558	0.87
T ₁₀	3860	334.3	74.0	87.7	127.0	11.8	40.7	35.8	386.0	45058	0.72
Mean	3798.3	346.7	72.3	87.3	127.2	11.4	39.9	37.1	379.7	46691.6	0.74
CD	148.8	68.0	3.8	2.2	2.1	0.5	5.6	4.3	15.2	3630.4	0.06
CV (%)	2.3	11.4	3.0	1.5	0.9	2.5	8.2	6.7	2.3	4.5	4.5
Significance	S	NS	NS	NS	NS	NS	NS	NS	S	S	S

Table 30: Weed Management in maize system (performance of wheat in Rabi) in Kalyani.

Treatments	Wheat grain yield (kg/ha)	Maize equivalent yield/system productivity
T ₁	3446	11422
T ₂	6031	16479
T ₃	4177	12418
T ₄	4238	12480
T ₅	4395	13111
T ₆	3494	11474
T ₇	3999	12200
T ₈	4374	12776
T ₉	4936	14610
T ₁₀	5463	15623
Mean	4455.3	13259.3
CD	543.0	832.5
CV (%)	7.1	3.7
Significance	S	S

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Table 31: Weed management in maize systems in Pantnagar.

Treatments	Wheat Grain yield (kg/ha)	Stover yield (kg/ha)	Tillers/m ²	Plant height (cm)	1000-grain weight (gram)	Net return (Rs./ha)	B:C ratio	Maize equivalent yield (kg/ha) of maize-wheat cropping system	Net return (Rs./ha) of system	B:C ratio of system
T ₁	4542	7509	316.7	89.1	44.6	43764	1.46	8735	67335	1.30
T ₂	4945	8022	321.7	92.1	44.3	50311	1.67	12413	103139	1.56
T ₃	4396	7179	303.3	92.8	44.1	41383	1.38	10764	93348	1.74
T ₄	4542	7546	301.7	87.5	43.9	43764	1.46	11046	96629	1.78
T ₅	4982	7656	306.7	90.2	45.3	50906	1.69	11766	106352	1.96
T ₆	4982	7766	321.7	89.7	44.7	50906	1.69	10042	80071	1.40
T ₇	4762	7509	315.0	88.4	43.2	47335	1.58	11317	95791	1.63
T ₈	4945	7289	310.0	89.9	42.4	50311	1.67	11471	100199	1.78
T ₉	4982	7399	300.0	90.2	43.8	50906	1.69	11663	103987	1.88
T ₁₀	4432	7363	328.3	90.9	44.6	41978	1.40	11702	101675	1.75
Mean	4750.9	7523.8	312.5	90.1	44.1	47156.4	1.57	11091.8	94852.6	1.68
CD	1044.7	1025.7	81.4	5.8	1.8	16976.2	0.57	1490.5	20346.0	0.36
CV (%)	12.8	7.9	15.2	3.8	2.4	21.0	21.0	7.8	12.5	12.6
Significance	NS	NS	NS	NS	NS	NS	NS	S	S	S

Table 32: Weed management in maize followed by chickpea in Dharwad.

Treatment	Chickpea grain yield (kg/ha)
T ₁	503.5
T ₂	608.7
T ₃	538.5
T ₄	531.8
T ₅	575.3
T ₆	524.3
T ₇	549.0
T ₈	544.8
T ₉	582.4
T ₁₀	566.3
Mean	552.5
CD	25.6
CV (%)	2.7
Significance	S

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Table 33: Weed management in Rabi maize-soybean cropping system in Banswara.

Treatments	Grain Yield (kg/ha)
T ₁	5093
T ₂	13750
T ₃	8102
T ₄	9213
T ₅	9583
T ₆	10509
T ₇	11991
T ₈	13056
T ₉	8102
T ₁₀	8796
Mean	9819.4
CD	3019.0
CV (%)	17.9
Significance	S

Treatment details:

- T₁ Control (weedy check)
- T₂ Weed free
- T₃ Atrazine @ 1.5* kg a.i./ha as pre-emergence
- T₄ Atrazine (750 g a.i./ha) + Pendimethalin (750 ml a.i./ha) as pre-emergence
- T₅ Atrazine (750 g a.i./ha) + 2,4-D Amine (400 ml a.i./ha) at 25 DAS as PoE
- T₆ Halosulfuron @ 90 g/ha at 25 DAS
- T₇ Atrazine (1.5 kg a.i./ha) pre-emergence fb Halosulfuron (90 g/ha) at 25 DAS as PoE
- T₈ Tembotrione (120 g a.i./ha) at 25 DAS as PoE
- T₉ Pendimethalin (1000 ml a.i./ha) pre-emergence fb Atrazine (750 g a.i./ha) + 2,4-D Amine (400 ml a.i./ha) at 25 DAS as PoE
- T₁₀ Atrazine (1.5 kg a.i./ha) pre-emergence fb Tembotrione (120 g a.i./ha) at 25 DAS as PoE

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Table 34: Enhancing water use efficiency in rainfed maize in Dholi.

Tillage + Mulching	Hydrogel (kg/ha)	Grain Yield (Kg/ha)	Stover Yield/m ²	Effective tillers/m ²	Plant height (cm)	Days of flowering	Days of maturity	Moisture (%)
Conventional till	No Hydrogel	4335	2168	294.0	78.9	89.7	128.3	12.0
	Hydrogel 2.5	4505	2253	292.3	77.4	88.0	127.7	12.4
	Hydrogel 5.0	4454	2227	301.0	78.2	88.0	127.3	13.0
Conventional till + mulching	No Hydrogel	4924	2462	297.0	80.0	88.3	126.3	14.0
	Hydrogel 2.5	4851	2425	295.7	78.4	87.0	127.0	11.4
	Hydrogel 5.0	4873	2437	297.7	80.2	88.3	126.7	12.0
Zero tillage	No Hydrogel	4686	2343	258.7	79.7	87.7	128.0	13.0
	Hydrogel 2.5	4618	2309	290.0	80.0	87.7	128.0	12.2
	Hydrogel 5.0	4380	2190	289.3	80.1	88.0	128.0	12.4
Zero tillage + mulching	No Hydrogel	5055	2527	292.0	77.7	87.0	127.0	11.6
	Hydrogel 2.5	5026	2513	298.3	78.5	87.0	126.0	11.8
	Hydrogel 5.0	5145	2573	298.3	79.3	88.7	127.7	12.0
Location mean		4737.8	2368.9	292.0	79.0	87.9	127.3	
C.D.(5%) AiBj-AiBk		115.0	57.5	32.8	2.2	2.1	1.9	
C.D.(5%) AiBk-AjBk		108.1	54.0	31.3	3.3	2.1	1.8	
F(5%)		s	s	NS	NS	NS	NS	
Conventional till		4431	2216	295.8	78.2	88.6	127.8	12.5
Conventional till + mulching		4883	2441	296.8	79.5	87.9	126.7	12.5
Zero tillage		4562	2281	279.3	79.9	87.8	128.0	12.5
Zero tillage + mulching		5075	2538	296.2	78.5	87.6	126.9	11.8
C.D. (5%) Ai-Aj		53.9	27.0	16.2	2.8	1.2	0.8	
C.V. (%) Error A		1.2	1.0	4.8	3.0	1.2	0.6	
F (5%)		s	s	NS	NS	NS	s	
No Hydrogel		4750	2375	285.4	79.1	88.2	127.4	12.7
Hydrogel 2.5 (kg/ha)		4750	2375	294.1	78.6	87.4	127.2	12.0
Hydrogel 5.0 (kg/ha)		4713	2357	296.6	79.5	88.3	127.4	12.4
C.D. (5%) Bi-Bj		57.5	28.7	16.4	1.1	1.0	1.0	
C.V. (%) ErrorB		1.4	1.5	6.5	1.6	1.3	0.9	
F (5%)		NS	NS	NS	NS	NS	NS	

Cont....

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Tillage + Mulching	Hydrogel (kg/ha)	Spike length (cm)	Spikelet/spike	Grains/spikes	1000 Grain Weight (g)	Grain Weight/m ² (g)	Net Return (Rs./ha)	B:C Ratio
Conventional till	No Hydrogel	11.2	38.3	37.7	46.7	433.5	40789	0.46
	Hydrogel 2.5	11.2	39.7	38.0	46.4	450.5	49306	0.56
	Hydrogel 5.0	11.2	40.3	38.7	47.7	445.4	43393	0.49
Conventional till + mulching	No Hydrogel	11.5	38.7	37.7	45.9	438.0	53698	0.61
	Hydrogel 2.5	11.3	39.0	38.0	46.6	492.4	61628	0.70
	Hydrogel 5.0	11.2	39.3	38.7	47.1	485.1	61942	0.70
Zero tillage	No Hydrogel	11.6	40.1	38.8	47.5	487.3	58652	0.67
	Hydrogel 2.5	11.4	39.1	37.7	47.4	468.6	62099	0.71
	Hydrogel 5.0	11.3	41.5	40.8	45.5	461.8	55714	0.63
Zero tillage + mulching	No Hydrogel	11.3	43.1	42.0	47.5	438.0	68153	0.78
	Hydrogel 2.5	11.3	44.1	42.0	47.8	502.6	75387	0.86
	Hydrogel 5.0	11.5	42.7	41.3	43.7	514.5	74389	0.85

Location mean	11.3	40.5	39.3	46.6	468.2	58762.5	0.67
C.D.(5%) AiBj-AiBk	0.8	2.6	2.8	3.1	11.9	7393.8	0.08
C.D.(5%) AiBk-AjBk	0.9	3.8	3.6	3.4	11.6	7680.4	0.09
F(5%)	NS	NS	NS	NS	s	NS	NS

Conventional till	11.2	39.4	38.1	46.9	443.1	44496	0.51
Conventional till + mulching	11.4	39.0	38.1	46.5	471.8	59090	0.67
Zero tillage	11.4	40.2	39.1	46.8	472.6	58822	0.67
Zero tillage + mulching	11.4	43.3	41.8	46.3	485.1	72643	0.83

C.D. (5%) Ai-Aj	0.7	3.1	2.8	2.2	6.4	4777.2	0.05
C.V. (%) Error A	5.3	6.7	6.1	4.2	1.2	7.0	7.0
F (5%)	NS	NS	NS	NS	s	s	s

No Hydrogel	11.4	40.0	39.0	46.9	449.2	55323	0.63
Hydrogel 2.5 (kg/ha)	11.3	40.5	38.9	47.0	478.6	62105	0.71
Hydrogel 5.0 (kg/ha)	11.3	41.0	39.9	46.0	476.7	58860	0.67

C.D. (5%) Bi-Bj	0.4	1.3	1.4	1.5	6.0	3696.9	0.04
C.V. (%) ErrorB	3.9	3.8	4.1	3.8	1.5	7.3	7.3
F (5%)	NS	NS	NS	NS	s	s	s

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Table 35: Evaluation of new bio-fertilizers in maize in Pantnagar.

Treatment	Wheat grain yield (kg/ha)	Straw yield (kg/ha)	100 grain weight	Day to spike initiation	Spike length (cm)	Plant height (cm)	Effective tillers/m ²	Grains/spike	Net return (Rs./ha)	B:C ratio
T ₁	3733	8735	3.5	86.0	7.6	89.0	92.7	41.5	29989	0.98
T ₂	3892	9177	3.6	89.0	7.9	92.9	91.7	44.6	32562	1.06
T ₃	3772	9013	3.5	90.0	7.9	90.6	93.7	43.6	30612	1.00
T ₄	4156	9192	3.6	91.3	8.0	98.0	94.0	45.3	36852	1.20
T ₅	3850	9317	3.5	90.3	7.8	91.6	95.0	43.4	31885	1.04
T ₆	3965	9201	3.6	88.3	8.3	91.2	94.0	43.5	33753	1.10
T ₇	4202	9570	3.7	91.3	8.3	101.7	97.3	47.9	37610	1.22
T ₈	3822	9179	3.5	88.3	7.9	95.4	93.3	42.9	31424	1.03
T ₉	4112	9435	3.6	91.7	8.2	98.2	95.7	47.0	36137	1.18
T ₁₀	4167	9283	3.7	91.0	7.9	95.9	93.3	44.6	37036	1.21
T ₁₁	4378	9672	3.9	94.0	8.4	104.9	103.7	51.7	40460	1.32
T ₁₂	3913	9513	3.6	92.7	8.2	100.4	94.0	44.6	32914	1.07
Mean	3996.8	9273.9	3.6	90.3	8.0	95.8	94.9	45.0	34269.3	1.12
CD	206.2	283.9	0.2	2.4	0.6	3.7	6.6	2.9	3351.4	0.11
CV (%)	3.0	1.8	3.0	1.6	4.2	2.3	4.1	3.9	5.8	5.8
Significance	S	S	S	S	NS	S	NS	S	S	S

Treatment	Maize equivalent yield of wheat (kg/ha)	Maize grain yield 2016 (kg/ha)	Maize equivalent yield of maize-wheat system (kg/ha)	Net return of maize-wheat system (Rs./ha)	B:C ratio of maize-wheat system
T ₁	4579	5224	9803	78305	1.41
T ₂	4773	5426	10199	83010	1.48
T ₃	4626	5521	10147	82301	1.46
T ₄	5097	5585	10681	89594	1.59
T ₅	4722	5668	10390	83909	1.45
T ₆	4863	5868	10730	89060	1.55
T ₇	5154	6135	11289	96131	1.66
T ₈	4687	5956	10643	87872	1.53
T ₉	5043	6268	11310	96422	1.66
T ₁₀	5111	5801	10911	91531	1.60
T ₁₁	5369	6049	11418	97887	1.69
T ₁₂	4800	5889	10689	86788	1.47
Mean	4901.8	5782.5	10684.3	88567.6	1.55
CD	252.8	471.1	544.6	7433.3	0.13
CV (%)	3.0	4.8	3.0	5.0	4.9
Significance	S	S	S	S	S

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Table 36: Evaluation of new bio-fertilizers in maize in Dholi.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Effective tillers/m ²	Plant height (cm)	Days of flowering	Days of maturity	Spike length (cm)	Spikelet/spike	Grains/spikes
T ₁	4033	2240.4	415.7	79.6	88.0	128.0	10.6	39.3	38.0
T ₂	4056	2253.3	395.3	77.9	87.3	127.3	11.2	41.3	39.0
T ₃	4003	2223.7	403.0	78.6	87.7	128.0	10.6	40.0	38.7
T ₄	4029	2238.5	411.7	80.2	88.3	126.7	11.2	39.3	38.3
T ₅	4009	2227.4	414.0	78.8	88.0	127.7	11.8	37.7	36.3
T ₆	4026	2236.7	417.3	78.7	87.7	127.0	11.5	39.3	38.0
T ₇	4036	2242.2	402.3	77.5	88.0	127.7	11.0	39.7	38.0
T ₈	4006	2225.6	402.0	79.1	87.7	127.7	11.0	40.3	38.7
T ₉	4089	2271.8	395.7	79.1	86.7	126.7	11.9	39.3	37.7
T ₁₀	3886	2159.0	405.0	79.7	88.0	128.0	11.3	41.0	39.0
T ₁₁	4093	2273.7	405.3	79.7	88.3	128.3	10.9	39.0	38.3
T ₁₂	3896	2164.5	411.7	79.9	88.7	127.0	11.2	38.7	37.7
Mean	4013.5	2229.7	406.6	79.1	87.9	127.5	11.2	39.6	38.1
CD	54.9	30.5	14.3	4.6	2.5	2.4	0.5	2.4	2.5
CV (%)	1.0	0.8	2.1	3.4	1.7	1.1	2.8	3.6	3.9
Significance	S	S	S	NS	NS	NS	S	NS	NS

Treatments	1000 grain weight (g)	Grain weight/m ² (g)	Net Return (Rs./ha)	B:C Ratio	Moisture (%)
T ₁	45.5	403.7	47582	0.54	12.0
T ₂	46.0	406.0	49729	0.56	13.0
T ₃	43.7	400.7	59399	0.67	11.2
T ₄	45.3	403.3	45494	0.51	12.5
T ₅	46.3	401.3	54947	0.62	12.0
T ₆	46.7	403.0	58512	0.66	13.0
T ₇	47.1	404.0	49755	0.56	12.2
T ₈	48.7	401.0	50927	0.58	11.6
T ₉	46.8	409.3	57220	0.65	12.0
T ₁₀	47.1	389.0	43950	0.49	12.3
T ₁₁	47.5	409.7	51685	0.58	14.0
T ₁₂	48.6	390.0	56878	0.64	13.0
Mean	46.6	401.8	52173.1	0.59	
CD	3.2	5.5	3594.0	0.04	
CV (%)	4.0	0.8	4.1	4.1	
Significance	NS	S	S	S	

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Table 37: Evaluation of new bio-fertilizer in maize (performance of Mustard in Rabi) in Kalyani.

Treatments	Mustard seed yield (kg/ha)	Mize equivalent Yield
T ₁	1104	12865
T ₂	1169	12427
T ₃	1186	12332
T ₄	1377	13762
T ₅	1154	10157
T ₆	1242	10917
T ₇	1244	11096
T ₈	1264	11260
T ₉	1294	12343
T ₁₀	1408	14814
T ₁₁	1723	16604
T ₁₂	1133	10332
Mean	1274.8	12409.0
CD	165.7	3427.8
CV (%)	7.7	16.3
Significance	S	S

Table 38: Evaluation of new bio-fertilizers in maize followed by chickpea in Dharwad.

Treatment	Chickpea grain yield (kg/ha)
T ₁	493.9
T ₂	513.4
T ₃	539.3
T ₄	544.0
T ₅	581.3
T ₆	554.1
T ₇	595.8
T ₈	567.1
T ₉	606.4
T ₁₀	580.6
T ₁₁	621.6
T ₁₂	663.9
Mean	571.8
CD	40.7
CV (%)	4.2
Significance	S

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Table 39: Evaluation of new bio-fertilizers in maize in Jhabua.

Treatment details	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Days 50% tasseling	Days to maturity	100-seed weight (g)
T ₁	4521	4414	66.4	124.7	58.7	117.0	23.2
T ₂	4623	4634	66.5	126.9	59.0	117.0	23.2
T ₃	4672	4683	66.5	128.2	59.0	117.7	23.2
T ₄	4725	4745	66.6	128.4	59.7	117.3	23.7
T ₅	5315	5414	66.5	141.7	61.0	116.3	25.7
T ₆	4826	4753	66.4	136.6	61.0	116.0	24.2
T ₇	5481	5527	66.5	143.4	61.3	119.3	26.0
T ₈	4848	4729	66.5	137.1	60.3	117.7	24.3
T ₉	5532	5737	66.5	144.0	61.0	119.7	26.0
T ₁₀	4905	4826	66.5	137.7	59.0	118.7	25.0
T ₁₁	5680	5723	66.5	147.2	61.3	120.0	26.2
T ₁₂	5341	5427	66.6	144.8	60.0	119.7	25.7
Mean	5039.1	5051.0	66.5	136.7	60.1	118.0	24.7
CD	500.2	631.8	2.1	9.5	2.8	3.3	1.4
CV (%)	5.9	7.4	1.9	4.1	2.8	1.6	3.4
Significance	S	S	NS	S	NS	NS	S

Treatment details	Cob length (cm)	Cob weight/cob (kg)	No. of row/cob	No. of grains/row	Shelling (%)	Net return (Rs/ha)	B:C ratio
T ₁	17.0	0.120	12.8	34.6	72.8	65577	3.6
T ₂	17.4	0.130	13.3	35.3	73.6	67723	3.7
T ₃	17.4	0.131	13.3	36.4	73.7	68644	3.7
T ₄	17.4	0.141	13.9	37.2	73.3	69526	3.7
T ₅	18.1	0.148	13.5	36.4	76.4	79324	3.9
T ₆	18.1	0.131	13.7	38.6	74.1	70039	3.6
T ₇	18.5	0.155	13.6	37.3	77.1	81754	4.0
T ₈	18.1	0.145	13.6	38.4	73.0	70215	3.6
T ₉	18.6	0.162	13.7	36.9	76.5	83493	4.0
T ₁₀	17.0	0.146	13.7	40.6	73.2	71330	3.6
T ₁₁	18.6	0.178	13.8	41.4	77.5	85292	4.1
T ₁₂	17.9	0.165	13.1	39.8	74.0	78693	3.7
Mean	17.8	0.1	13.5	37.7	74.6	74300.9	3.8
CD	1.6	0.0	1.0	2.7	11.0	7557.4	0.4
CV (%)	5.2	7.5	4.6	4.3	8.7	6.0	6.1
Significance	NS	S	NS	S	NS	S	NS

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Table 40: Residual effect of new bio-fertilizers and phosphorus on gram in Jhabua.

Treatment details	Seed yield (kg/ha)	Straw yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Branches/ plant	Pods/ plant	Seeds/ pod	Test weight (g)	Net return (Rs/ha)	B:C ratio
T ₁	1956	3800	311.2	44.9	4.5	43.3	1.2	223.1	60822	2.4
T ₂	2000	3944	312.8	45.8	4.5	47.0	1.3	226.9	62889	2.5
T ₃	1972	3917	312.7	46.5	4.5	44.0	1.3	226.6	61722	2.5
T ₄	2042	4053	312.8	50.9	4.7	50.1	1.3	230.2	64772	2.6
T ₅	2089	4144	315.1	54.0	4.5	50.7	1.3	225.1	66844	2.7
T ₆	2194	4009	313.9	45.8	4.8	40.1	1.3	229.1	70796	2.8
T ₇	2161	4117	311.5	52.3	4.5	56.9	1.3	229.8	69678	2.8
T ₈	2139	4094	310.5	50.7	5.3	43.4	1.3	230.3	68744	2.7
T ₉	2350	4200	311.5	53.8	4.9	55.3	1.3	234.8	77400	3.1
T ₁₀	2500	4111	312.2	45.2	4.5	50.0	1.3	237.3	83222	3.3
T ₁₁	2417	4375	310.8	53.1	5.0	59.2	1.3	238.3	80417	3.2
T ₁₂	2128	3944	321.2	46.0	5.0	46.8	1.2	238.2	68000	2.7
Mean	2162.3	4059.1	313.0	49.1	4.7	48.9	1.3	230.8	69608.9	2.8
CD	381.3	501.3	22.2	6.9	1.1	11.1	0.2	20.6	14977.1	0.6
CV (%)	10.4	7.3	4.2	8.4	13.5	13.4	11.2	5.3	12.7	12.7
Significance	NS	NS	NS	S	NS	S	NS	NS	NS	NS

Treatment details:

- T₁ Control (recommended N and K)
- T₂ PSB I
- T₃ PSB II
- T₄ NPK consortia
- T₅ 60 kg P₂O₅/ha
- T₆ 30 kg P₂O₅/ha + PSB I
- T₇ 60 kg P₂O₅/ha + PSB I
- T₈ 30 kg P₂O₅/ha + PSB II
- T₉ 60 kg P₂O₅/ha + PSB II
- T₁₀ 30 kg P₂O₅/ha + NPK consortia
- T₁₁ 60 kg P₂O₅/ha + NPK consortia
- T₁₂ 90 kg P₂O₅/ha

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Table 41: Optimization of potassium fertilizer for Eastern India in Dholi.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Effective tillers/m ²	Plant height (cm)	Days of flowering	Days of maturity	Spike length (cm)	Spikelet/ Spike	Grains/ Spikes
T ₁	4406	2181	365.0	74.0	87.3	128.3	11.5	42.0	40.7
T ₂	4250	2104	356.7	73.7	88.0	129.0	11.8	42.3	41.0
T ₃	4340	2148	373.3	72.3	87.0	128.3	11.4	40.7	40.0
T ₄	4735	2344	368.3	73.3	88.0	129.0	11.2	39.7	38.7
T ₅	4675	2315	358.3	75.7	90.0	128.3	11.8	40.0	39.3
T ₆	4705	2329	380.0	75.3	88.7	128.7	11.3	41.3	40.0
Mean	4518.5	2236.9	366.9	74.1	88.2	128.6	11.5	41.0	39.9
CD	373.3	184.8	46.9	4.3	2.3	3.0	0.2	3.2	3.2
CV (%)	4.4	4.6	7.0	3.2	1.4	1.3	1.1	4.3	4.4
Significance	NS	NS	NS	NS	NS	NS	S	NS	NS

Treatment	Grain weight/m ²	Net Return	B:C Ratio	Moisture (%)
T ₁	441.0	29199	0.32	13.0
T ₂	425.4	35658	0.40	12.6
T ₃	434.4	47530	0.54	13.2
T ₄	474.0	64749	0.73	13.0
T ₅	468.0	67680	0.76	14.0
T ₆	471.0	60437	0.68	13.5
Mean	452.3	50875.6	0.57	
CD	37.4	11990.7	0.14	
CV (%)	4.5	13.0	13.1	
Significance	NS	S	S	

Treatments details:

T₁ – 0 Kg K₂O/ha

T₂ – 30 Kg K₂O/ha

T₃ – 60 Kg K₂O/ha

T₄ – 90 Kg K₂O/ha

T₅ – 120 Kg K₂O/ha

T₆ – 150 Kg K₂O/ha



PATHOLOGY

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* Karnal Centre data could not be considered for promotion of entries due to late submission of data (Post data analysis)

Abbreviations used:

1. KARN	Karnal	5. DHAR	Dharwad
2. LUDH	Ludhiana	6. HYDE	Hyderabad
3. DHOL	Dholi	7. MAND	Mandya
4. COIM	Coimbatore	8. UDAI	Udaipur

NWPZ: - North West Plain Zone (Karnal, Ludhiana); **NEPZ:** - North East Plain Zone (Dholi); **PZ:** - Peninsular Zone (Coimbatore, Dharwad, Hyderabad, Mandya); **CWZ:** - Central Western Zone (Udaipur)

1. MLB	Maydis leaf blight	5. PFSR	Post flowering stalk rot
2. TLB	Turcicum leaf blight	6. C.Rot	Charcoal rot
3. C.Rust	Common rust	7. FSR	Fusarium stalk rot
4. SDM	Sorghum downy mildew		
1. FS	Foliar spray	6. R	Resistant
2. ST	Seed treatment	7. MR	Moderately resistant
3. MPT	Maize Pathology Trial	8. MS	Moderately susceptible
4. MDR	Multiple disease resistance	9. S	Susceptible
5. HR	High Resistant	10. HS	High susceptible

Executive Summary

All India Coordinated Research Project on Maize (AICRPM) pathology trials for *Rabi* 2016-17 were finalized during 59th Annual Maize Workshop held at UAS, Bangalore. A total of 9 trials in *Rabi* 2016-17 were conducted in sick plot /artificially created epiphytotics at identified hot spot locations and testing centres *viz.*, Ludhiana in NWPZ; Dholi in NEPZ and Dharwad, Coimbatore, Mandya, Hyderabad in PZ. A total of 99 hybrids and 928 inbred lines in *Rabi* season were screened against Maydis leaf blight (MLB), Turcicum leaf blight (TLB), Sorghum downy mildew (SDM), Charcoal rot (C.Rot), Common rust (C.Rust). Yield loss trial was conducted at Dharwad (C.Rot). Disease survey was conducted at farmer's fields in Karnataka (PZ) to assess overall disease scenario during the crop season. Trials for management strategies to develop integrated disease management (IDM) in maize were conducted at Dharwad and Karnal centre. The summarized results of AICRPM Pathology trials conducted during testing period are presented below:

A. *Rabi* 2016-17

MPT 1. Screening of NIVT (late maturity) maize hybrids

Multi-location testing of 44 genotypes under this group was done (Table-1). Promising genotypes with disease resistance (DR) is below:

S.No.	Genotype	Resistant			Moderately Resistant		
		NWPZ	NEPZ	PZ	NWPZ	NEPZ	PZ
1	DKC 9181(IR8494)		TLB				C.ROT
2	VNR-32994		TLB				C.ROT
3	Super 3366					TLB	C.ROT
4	JH 412		TLB		C.ROT		
5	Rasi 1107				C.ROT	TLB	C.ROT
6	JH 358						C.ROT
7	KH-1226		TLB				C.ROT
8	PM16203L						C.ROT
9	BLH 116			C.ROT	C.ROT		
10	ADV 7037				C.ROT		SDM
11	Star-47				C.ROT		
12	BLH 113				C.ROT		
13	PM16207L					TLB	
14	JH 273		TLB		C.ROT		C.ROT
15	PM16205L				C.ROT	TLB	
16	KH-2124		TLB		C.ROT		C.ROT
17	JH 409		TLB				C.ROT
18	PM16202L				C.ROT		C.ROT
19	IH-0330						C.ROT
20	KWS-8915						C.ROT
21	BIO 305				C.ROT	TLB	
22	REH-2014-6						C.ROT
23	PM16204L				C.ROT		
24	HT 16047					TLB	
25	PM16201L		TLB		C.ROT		
26	JH 248					TLB	C.ROT
27	GK3208	C.ROT				TLB	C.ROT
28	IH-031						C.ROT
29	HT 16052				C.ROT		C.ROT
30	GK3209						C.ROT
31	DAS-MH-904		TLB				C.ROT
32	IH-1304						C.ROT

Contd.

S.No.	Genotype	Resistant			Moderately Resistant		
		NWPZ	NEPZ	PZ	NWPZ	NEPZ	PZ
33	DKC 9188(IR8737)		TLB		C.ROT		C.ROT
34	CMH 2829					TLB	C.ROT
35	Rasi 2015					TLB	C.ROT
36	JH 295				C.ROT		C.ROT
37	CMH 2725				C.ROT	TLB	C.ROT
38	MM2033		TLB		C.ROT		C.ROT, SDM
39	KWS-8933				C.ROT		C.ROT, SDM
40	Star-57		TLB		C.ROT		
41	ADV 7139				C.ROT	TLB	C.ROT, SDM
42	PM16206L						C.ROT

MPT 2. Screening of NIVT (medium maturity) maize hybrids

Multilocation testing of 31 genotypes under this group was done (Table 2). Promising genotypes with disease resistance (DR) is below:

S.No.	Genotype	Resistant	Moderately Resistant		
		NEPZ	NWPZ	NEPZ	PZ
1	IMHBG16R-5			TLB	C.ROT
2	VaMH 12013				C.ROT
3	HKH 358		C.ROT		
4	AH 7005				C.ROT
5	KH-7502				C.ROT
6	IMHBG16R-2			TLB	C.ROT
7	IMH16-14 (S17XS36)	TLB			C.ROT
8	CP.898			TLB	
9	IMHBG16R-1				C.ROT
10	HKH 360		C.ROT	TLB	
11	VEH-16-1			TLB	
12	IMH16-15 (S9XS6)	TLB	C.ROT		C.ROT
13	100K-16			TLB	C.ROT
14	REH-2015-1				C.ROT
15	IMH16-13 (S25XS13)			TLB	C.ROT
16	IMHBG16R-6			TLB	
17	HKH 359				C.ROT
18	100 K-18				C.ROT
19	IMHBG16R-8		C.ROT	TLB	
20	DKC8185 (IR8332)				C.ROT
21	IMHBG16R-7			TLB	
22	IMH16-12 (S23XS9)				C.ROT
23	MMH15-8			TLB	
24	IMHBG16R-9		C.ROT	TLB	
25	REH-2015-2		C.ROT		
26	REH-2014-3		C.ROT	TLB	
27	IMHBG16R-3		C.ROT		
28	IMHBG16R-4		C.ROT	TLB	C.ROT

MPT 3. Screening of AVT I & II (late maturity) maize hybrids

Multi-location testing of 12 genotypes under this group was done (Table 3). Promising genotypes with diseases resistance (DR) are below:

S.No.	Genotype	Resistant	Moderately Resistant		
		NEPZ	NWPZ	NEPZ	PZ
AVT-I-Late					
1	KMH-3981			TLB	C.ROT
2	DKC9170 (IQ8579)			TLB	C.ROT
3	PM15202L	TLB			
4	DKC9175 (IP8514)	TLB			
5	MM 2222		C.ROT		C.ROT
6	115-08-01			TLB	
7	CP.808		C.ROT		C.ROT
AVT-II-Late					
8	DKC 9165 (IM8119)		C.ROT		C.ROT
9	PM14205L			TLB	
10	NMH 1290				C.ROT
11	Rasi 394		C.ROT		C.ROT

MPT 4-5. Screening of AVT I & II (medium maturity) and QPM-I-II maize hybrids

Multi-location testing of 8 genotypes under AVT I & II (medium maturity) group and 4 genotypes under QPM-I-II group were done (Table 4). Promising ones with disease resistance (DR) are below:

S.No.	Genotype	Resistant	Moderately Resistant		
		NEPZ	NWPZ	NEPZ	PZ
AVT-I-Medium					
1	DKC8171 (IP8204)		C.ROT		
2	BLH 109	TLB	C.ROT		
3	HT 15066		C.ROT	TLB	
AVT-II-Medium					
4	CP.222		C.ROT		C.ROT
5	BLH 101		C.ROT		C.ROT
6	PM142096M			TLB	C.ROT
7	HT 1412081		C.ROT		
9	BLH 102	TLB			C.ROT
QPM-I-II					
10	MMHQPM-6-12-13			TLB	C.ROT
11	VEHQ-15-1	TLB	C.ROT		C.ROT
12	MMHQPM-10-11-15				C.ROT

MPT 6. Disease screening of maize inbred lines (Mapping panel & Mapping populations)**i. Phenotyping of Association Mapping Panel against Charcoal Rot at Coimbatore (PZ)**

A total of 310 genotypes were tested against Charcoal rot at Coimbatore (Table 5). Those genotypes showing resistant/moderately resistant reaction to C.Rot disease is given below:

Resistant (R)	Moderately Resistant (MR)
IMR2, IMR3, IMR19, IMR20, IMR27, IMR36, IMR40, IMR41, IMR42, IMR43, IMR44, IMR50, IMR60, IMR65, IMR75, IMR76, IMR77, IMR91, IMR99, IMR103, IMR108, Tr.AM, IMR-109, 113, Tr.C.ROT114, Tr.AM116, 121, Tr C.ROT 122, 125, 127, Tr.C.ROT130, TrAM131, 132,133, TrAM135, Tr AM138, 139, 145, 146, 152, 158, 162, 163, 164, 169,	Tr C rot IMR 1, IMR7, IMR8, IMR9, IMR11, IMR15, IMR33, IMR35, IMR39, IMR49, IMR56, IMR58, IMR63, IMR74, IMR87, IMR97, IMR100, IMR104, IMR105, 106, Tr AM112, 115, TR AM124, Tr C.rot126, Tr AM128,Tr C.rot134, 136, Tr

170, 171, 174, 176, 177, 179, 181, 183, 188, 193, 194, 195, 198, 199, 202, 204, 205, 208, 209, 210, 211, 212, 221, 222, 224, 226, 227, 228, 229, 230, 231, 233, 235, 253, 258, 259, 267, 270, 274, 275, 277, 279, 281, 290, 292, 293, 298, 305, 306, 308, 313, 315, 316, 318, 320, 321, 322, 323, 324, 325, 330, 331, 332, 337, 338, 340, 341, 342, 344, 346, 347, 348, 351, 357, 358, 359, 362, 363, 364, 365, 373, 376, 377, 378, 379, 380, 381, 382, 383, 384, 388, 389, 399, 406, 407, 409, 411, 413, 416, 417, TR AM D	C.rot137, 149, 153, 154, Tr AM155, 156, 160, 178, 182, 185, 196, 201, 203, 206, 207, 219, 220, 236, 241, 257, 260, 268, 269, 271, 272, 278, 283, 284, 291, 294, 296, 299, 300, 301, 303, 304, 314, 317, 319, 326, 327, 328, 329, 339, 343, 345, 349, 360, 361, 366, 367, 372, 374, 375, 385, 387, 392, 393, 394, 395, 396, 397, 398, 400, 404, 410, 414, 415, Tr AM A, Tr AM B, Tr AM C,
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ii. Phenotyping of Recombinant Inbred Lines (RIL) Mapping Population (M-15) against MLB

Mapping population of 293 genotypes was tested in different zones (Table 6).

iii. Phenotyping of Recombinant Inbred Lines (RIL) Mapping Population (M-16) against MLB

Mapping population of 221 was screened (Table 7).

iv. Screening of MSRIT-12 CIMMYT trial against C.Rot at Dharwad

A total of 100 MSRIT-12 lines of CIMMYT were evaluated against Charcoal rot at Dharwad centre (Table 8).

MPT 7. Assessment of avoidable yield losses due to C.Rot at Dharwad

Yield loss due to charcoal rot disease of maize was assessed at Dharwad centre using paired plot technique under artificially created epiphytotics (Table 9). Yield loss was up to 21 per cent in 900 M Super test hybrid due to C.Rot.

MPT 8a. Efficacy of bioagents, fungicides and potash in control of post flowering stalk rot (PFSR) at Dharwad

Pseudomonas fluorescens @ 0.5% as seed treatment, bioagent-fortified FYM (1:50) and spray @ 0.5% found effective in suppressing the PFSR. This treatment recorded significantly lower disease severity (36.22%) and maximum grain yield (60.25 q/ha). The treatment recorded 47.66% disease control efficacy and resulted in 21.32% increase in grain yield over untreated check. Nevertheless the treatments viz., T₃: Local strains of fungal antagonists: *Trichoderma harzianum* Dharwad 1 (Local strain) @ 0.5% as seed treatment, bioagent-fortified and incubated FYM (1:50) and spray @ 0.5% and T₁: TH-3 @ 0.5% as seed treatment and incubated FYM (1.50) and spray @ 0.5% was also equally effective. Treatments viz., T₁, T₂ and T₃ were statistically at par with respect to disease severity and grain yield (Table 10).

MPT 8b. Efficacy of fungicides against common rust (*Puccinia sorghi*) of maize at Karnal centre

Six fungicides were evaluated against common rust as foliar spray. All the fungicides were found effective against common rust. However, Trifloxystrobin 25% + Tebuconazole 50% @ 0.05% was found most effective (47.3%) followed by Propiconazole @ 0.1% (46.3%) and Tebuconazole @ 0.05% (45.3%) and also significant increase in yield was observed. Azoxystrobin @ 0.05% was found least effective among the fungicides tested (Table 11).

MPT 9. Survey and surveillance of maize diseases in northern Karnataka and Tamil Nadu

Survey and surveillance of charcoal stalk rot disease of maize was conducted at 119 fields of Dharwad, Kalaghatagi, Hanagal, Bagalkot, Sindhagi, Gokak and Arabhavi places in northern Karnataka. The incidence of charcoal stalk rot was found 11.86 to 28.33 per cent (Table 12).

Survey was conducted in Annur, Anthiyur, Thudiyalur, Thondamuthur and Ottanchathiram areas of Tamil Nadu. Only few farmers were taken up sowing and no disease was recorded in those fields. Due to the failure of monsoon and severe drought, most of the farmers skipped this season.

Table 1. Screening of NIVT (late maturity) maize hybrids

S.No.	Genotype	TLB (1-9)				C.ROT (1-9)							SDM (%)	
		NEPZ	PZ*			NWPZ		PZ					PZ	
		DHOL	Reaction	MAND	Reaction	LUDH	Reaction	COIM	DHAR	HYDE	Av. Score	Reaction	MAND	Reaction
1	DKC 9181(IR8494)	2.5	R	1.0	-	5.1	MR	4.9	4.8	3.5	4.4	MR	75.4	S
2	VNR-32994	2.5	R	1.0	-	5.7	MS	3.9	5.9	4.4	4.7	MR	90.9	S
3	Super 3366	5.0	MR	1.0	-	5.3	MS	3.3	7.0	3.2	4.5	MR	95.6	S
4	JH 412	3.0	R	1.0	-	4.7	MR	4.2	8.0	3.8	5.3	MS	92.9	S
5	Rasi 1107	4.5	MR	1.0	-	4.9	MR	4.0	7.1	4.2	5.1	MR	68.4	S
6	JH 358	8.0	S	1.0	-	5.4	MS	1.6	7.8	4.4	4.6	MR	78.2	S
7	KH-1226	2.0	R	1.0	-	5.3	MS	2.1	7.0	3.5	4.2	MR	85.4	S
8	PM16203L	7.0	MS	1.5	-	6.2	MS	2.7	6.1	3.9	4.2	MR	72.9	S
9	BLH 116	7.0	MS	1.5	-	3.8	MR	1.2	5.0	3.1	3.1	R	69.6	S
10	ADV 7037	6.0	MS	1.5	-	4.0	MR	5.8	5.3	4.5	5.2	MS	20.1	MR
11	Star-47	8.0	S	1.5	-	4.5	MR	6.1	7.0	3.5	5.5	MS	97.5	S
12	BLH 113	7.0	MS	1.5	-	3.8	MR	6.8	6.3	3.4	5.5	MS	89.0	S
13	PM16207L	3.5	MR	1.0	-	5.3	MS	5.8	7.8	4.0	5.9	MS	78.0	S
14	DAS-MH-903	6.5	MS	1.0	-	5.2	MS	7.1	6.9	1.8	5.3	MS	100	S
15	JH 273	2.0	R	0.5	-	4.5	MR	3.2	5.8	2.6	3.8	MR	97.6	S
16	PM16205L	4.5	MR	1.0	-	4.6	MR	7.7	6.9	3.1	5.9	MS	98.2	S
17	KH-2124	1.5	R	1.0	-	4.4	MR	1.3	6.8	4.9	4.3	MR	79.3	S
18	JH 409	2.5	R	1.0	-	6.9	MS	4.7	6.4	3.0	4.7	MR	100	S
19	PM16202L	5.5	MS	1.0	-	4.4	MR	6.5	4.7	3.0	4.7	MR	53.7	S
20	IH-0330	7.5	S	1.5	-	5.2	MS	1.3	7.8	5.8	4.9	MR	100	S
21	KWS-8915	7.0	MS	1.5	-	6.6	MS	4.0	6.9	4.3	5.1	MR	43.2	MS
22	BIO 305	3.5	MR	1.5	-	5.0	MR	5.5	6.0	4.5	5.3	MS	83.7	S
23	REH-2014-6	5.5	MS	1.0	-	6.4	MS	3.1	5.0	3.3	3.8	MR	77.5	S
24	PM16204L	6.0	MS	2.0	-	4.6	MR	6.5	6.1	5.2	5.9	MS	100	S
25	HT 16047	4.0	MR	1.5	-	6.9	MS	4.0	7.8	3.9	5.2	MS	83.0	S
26	PM16201L	3.0	R	1.0	-	5.0	MR	4.0	6.7	5.3	5.3	MS	93.3	S
27	JH 248	4.0	MR	0.5	-	5.2	MS	1.3	5.9	4.2	3.8	MR	85.4	S

Contd.

Table-1

S.No.	Genotype	TLB (1-9)				C.ROT (1-9)						SDM (%)		
		NEPZ		PZ*		NWPZ			PZ			PZ		
		DHOL	Reaction	MAND	Reaction	LUDH	Reaction	COIM	DHAR	HYDE	Av. Score	Reaction	MAND	Reaction
28	GK3208	5.0	MR	1.0	-	2.7	R	5.3	4.8	3.1	4.4	MR	53.3	S
29	IH-031	7.0	MS	2.0	-	6.0	MS	1.7	7.0	2.4	3.7	MR	98.2	S
30	IH-0712	7.5	S	1.0	-	6.0	MS	5.1	7.1	4.1	5.4	MS	94.6	S
31	HT 16052	5.5	MS	1.0	-	4.4	MR	4.2	7.0	2.5	4.6	MR	98.2	S
32	GK3209	5.5	MS	1.0	-	6.3	MS	3.1	6.0	1.7	3.6	MR	98.1	S
33	DAS-MH-904	2.5	R	2.0	-	6.1	MS	4.0	4.8	4.1	4.3	MR	97.5	S
34	IH-1304	5.5	MS	1.0	-	6.6	MS	2.0	6.3	4.7	4.3	MR	100	S
35	DKC 9188(IR8737)	1.5	R	1.5	-	4.4	MR	6.0	5.1	3.1	4.7	MR	89.7	S
36	CMH 2829	5.0	MR	1.0	-	5.2	MS	3.3	7.0	4.2	4.8	MR	59.1	S
37	Rasi 2015	3.5	MR	1.5	-	6.7	MS	3.5	6.7	3.2	4.5	MR	73.6	S
38	JH 295	5.5	MS	1.5	-	4.2	MR	2.2	7.7	4.5	4.8	MR	82.0	S
39	CMH 2725	5.0	MR	1.0	-	4.9	MR	4.2	5.8	1.9	4.0	MR	72.5	S
40	MM2033	2.5	R	1.5	-	4.7	MR	6.4	5.9	3.1	5.1	MR	19.3	MR
41	KWS-8933	6.0	MS	1.0	-	3.5	MR	3.3	4.8	2.8	3.6	MR	10.1	MR
42	Star-57	3.0	R	1.0	-	4.8	MR	6.9	5.9	3.2	5.3	MS	71.6	S
43	ADV 7139	5.0	MR	1.0	-	4.2	MR	3.2	6.8	3.0	4.3	MR	22.4	MR
44	PM16206L	8.5	S	1.0	-	5.2	MS	1.8	6.9	3.2	4.0	MR	100	S
45	P3522 (C)	2.5	R	2.5	-	5.2	MS	1.2	6.0	3.7	3.6	MR	98.3	S
46	Seedtech 2324 (C)	6.5	MS	1.0	-	4.2	MR	6.3	4.0	3.0	4.4	MR	48.2	MS
47	Buland (C)	5.5	MS	1.0	-	6.9	MS	8.1	7.9	6.2	7.4	S	90.9	S
48	Bio 9981 (C)	3.0	R	1.0	-	5.9	MS	6.8	6.0	3.3	5.4	MS	85.8	S
49	S. Check	8.5	S	2.5	-	7.0	MS	8.2	8.0	5.2	7.1	MS	100	S
50	R. Check	-	-	1.3	-	3.0	R	1.0	-	-	1.0	R	19.5	MR

PZ*:- TLB data not considered due to low disease pressure.

Resistant Check:- TLB:- NAH 2049 (MANDYA); **C.ROT:-** PMH 1 (LUDHIANA); COH 6 (COIMBATORE); **SDM:-** NAH 1137 (MANDYA)

Susceptible Check:- TLB:- CML 186 (DHOLI); CM 202 (MANDYA); **C.ROT:-** 31Y45 (LUDHIANA); CM 501 (COIMBATORE);
G-25 (DHARWAD); BML 6 (HYDERABAD); **SDM:-** CM 500 (MANDYA)

Table 2. Screening of NIVT (medium maturity) maize hybrids

		TLB (1-9)				C.ROT (1-9)						SDM (%)		
		NEPZ		PZ*		NWPZ			PZ			PZ		
S.No.	Genotype	DHOL	Reaction	MAND	Reaction	LUDH	Reaction	COIM	DHAR	HYDE	Av. Score	Reaction	MAND	Reaction
1	IMHBG16R-5	4.5	MR	1.0	-	6.0	MS	2.6	7.7	4.3	4.8	MR	100	S
2	VaMH 12013	5.5	MS	1.0	-	6.0	MS	4.1	5.2	4.9	4.7	MR	75.4	S
3	HKH 358	6.5	MS	1.0	-	5.0	MR	6.0	4.8	5.4	5.4	MS	100	S
4	AH 7005	6.0	MS	1.0	-	6.4	MS	5.0	6.5	2.8	4.8	MR	100	S
5	KH-7502	6.5	MS	1.0	-	6.3	MS	4.3	6.3	3.7	4.8	MR	68.3	S
6	IMHBG16R-2	5.0	MR	1.0	-	6.4	MS	4.6	4.0	3.3	4.0	MR	74.2	S
7	IMH16-14(S17XS36)	2.5	R	0.5	-	5.5	MS	1.7	8.2	4.3	4.7	MR	92.9	S
8	CP.898	3.5	MR	1.0	-	5.6	MS	4.7	7.8	5.6	6.0	MS	100	S
9	IMHBG16R-1	6.0	MS	1.0	-	5.7	MS	3.8	7.1	4.1	5.0	MR	100	S
10	HKH 360	4.0	MR	1.0	-	4.5	MR	4.9	6.9	5.1	5.6	MS	98.5	S
11	VEH-16-1	4.0	MR	1.0	-	5.3	MS	5.0	7.1	3.7	5.3	MS	73.9	S
12	IMH16-15(S9XS6)	2.5	R	1.0	-	4.4	MR	4.8	5.0	2.4	4.1	MR	68.1	S
13	100K-16	5.0	MR	1.0	-	6.2	MS	6.2	4.4	3.1	4.6	MR	96.9	S
14	REH-2015-1	7.5	S	0.5	-	5.9	MS	3.7	4.9	3.2	3.9	MR	90.9	S
15	IMH16-13(S25XS13)	4.5	MR	1.5	-	6.4	MS	5.5	5.9	3.0	4.8	MR	100	S
16	IMHBG16R-10	5.5	MS	0.5	-	6.5	MS	4.6	7.0	4.2	5.3	MS	66.7	S
17	IMHBG16R-6	4.0	MR	1.0	-	6.5	MS	4.7	7.9	5.8	6.1	MS	91.2	S
18	HKH 359	6.5	MS	1.0	-	6.6	MS	3.0	6.0	4.2	4.4	MR	100	S
19	100 K-18	7.5	S	1.0	-	6.7	MS	3.3	6.8	3.9	4.7	MR	77.4	S
20	IMHBG16R-8	4.0	MR	1.0	-	4.5	MR	5.6	7.9	4.5	6.0	MS	40.9	MS
21	DKC8185(IR8332)	6.5	MS	1.5	-	6.4	MS	1.7	4.8	4.5	3.7	MR	100	S
22	MMH15-9	5.5	MS	1.0	-	8.0	S	5.1	6.2	5.0	5.4	MS	100	S
23	IMHBG16R-7	5.0	MR	1.0	-	5.6	MS	4.6	6.8	4.2	5.2	MS	78.6	S
24	IMH16-12(S23XS9)	6.5	MS	1.0	-	6.7	MS	4.5	6.0	4.3	4.9	MR	94.8	S
25	MMH15-8	5.0	MR	1.0	-	6.7	MS	6.1	8.0	4.4	6.2	MS	100	S
26	IMHBG16R-9	3.5	MR	0.5	-	5.1	MR	5.1	8.3	4.8	6.1	MS	94.4	S

Contd.

Table-2

S.No. Genotype	TLB (1-9)				C.ROT (1-9)							SDM (%)	
	NEPZ		PZ*		NWPZ			PZ				PZ	
	DHOL	Reaction	MAND	Reaction	LUDH	Reaction	COIM	DHAR	HYDE	Av. Score	Reaction	MAND	Reaction
27 REH-2015-2	6.0	MS	1.0	-	5.1	MR	6.5	7.3	4.0	5.9	MS	100	S
28 REH-2014-3	4.5	MR	1.0	-	5.1	MR	4.9	6.7	4.8	5.5	MS	90.9	S
29 IMHBG16R-3	6.0	MS	1.0	-	4.3	MR	5.7	6.9	4.1	5.6	MS	67.4	S
30 WH 1010	5.5	MS	1.0	-	6.1	MS	3.2	8.1	4.6	5.3	MS	88.5	S
31 IMHBG16R-4	4.5	MR	0.5	-	3.5	MR	3.8	7.7	3.5	5.0	MR	94.4	S
32 Bio 9544(C)	5.5	MS	1.0	-	6.1	MS	5.7	6.1	3.4	5.1	MR	35.6	MS
33 DHM 117 (C)	5.0	MR	1.0	-	4.3	MR	5.7	7.8	4.2	5.9	MS	85.3	S
34 HM 10 (C)	3.0	R	1.0	-	4.1	MR	4.1	6.9	3.5	4.8	MR	97.5	S
35 Bio 9637 (C)	3.5	MR	1.0	-	6.2	MS	2.9	4.5	3.6	3.7	MR	84.2	S
36 S. Check	9.0	S	1.0	-	6.4	MS	7.7	8.0	5.2	7.0	MS	90.0	S
37 R. Check	-	-	3.0	-	3.7	MR	1.0	-	-	1.0	R	11.8	MR

PZ*:- TLB data not considered due to low disease pressure.

Resistant Check:- TLB:- NAH 2049 (MANDYA); **C.ROT:-** PMH 1 (LUDHIANA); COH 6 (COIMBATORE); **SDM:-** NAH 1137 (MANDYA)

Susceptible Check:- TLB:- CML 186 (DHOLI); CM 202 (MANDYA); **C.ROT:-** 31Y45 (LUDHIANA); CM 501 (COIMBATORE);

G-25 (DHARWAD); BML 6 (HYDERABAD); **SDM:-** CM 500 (MANDYA)

Table 3. Screening of AVT I & II (late maturity) maize hybrids

		TLB (1-5)				C.ROT (1-9)						SDM (%)		
		NEPZ		PZ*		NWPZ			PZ			PZ		
S.No.	Genotype	DHOL	Reaction	MAND	Reaction	LUDH	Reaction	COIM	DHAR	HYDE	Av. Score	Reaction	MAND	Reaction
AVT-I-Late														
1	KMH-3981	2.5	MR	1.0	-	5.7	MS	5.3	4.8	2.9	4.3	MR	69.6	S
2	DKC9177 (IP8572)	4.5	S	1.0	-	5.8	MS	5.2	7.0	4.1	5.4	MS	80.8	S
3	DKC9170 (IQ8579)	2.5	MR	1.0	-	6.6	MS	4.3	6.8	3.9	5.0	MR	92.9	S
4	PM15202L	2.0	R	1.0	-	6.2	MS	4.8	7.1	4.1	5.3	MS	100	S
5	DKC9175(IP8514)	1.0	R	1.0	-	8.0	S	5.7	6.8	3.1	5.2	MS	72.6	S
6	MM 2222	3.5	MS	1.0	-	5.0	MR	4.2	7.4	2.5	4.7	MR	95.8	S
7	115-08-01	2.5	MR	0.5	-	6.0	MS	6.2	6.7	4.1	5.7	MS	59.3	S
8	CP.808	3.5	MS	1.0	-	4.9	MR	4.8	4.5	4.6	4.6	MR	45.5	MS
AVT-II-Late														
9	DKC 9165(IM8119)	3.5	MS	1.5	-	4.0	MR	4.0	6.2	3.7	4.6	MR	95.0	S
10	PM14205L	3.0	MR	1.0	-	5.2	MS	4.5	7.8	3.4	5.2	MS	95.7	S
11	NMH 1290	4.5	S	1.0	-	6.4	MS	5.0	6.8	2.5	4.8	MR	69.5	S
12	Rasi 394	4.5	S	1.0	-	4.5	MR	4.5	6.7	3.8	5.0	MR	89.1	S
13	Seedtech 2324 (C)	3.5	MS	1.0	-	6.2	MS	2.8	7.9	2.8	4.5	MR	100	S
14	Buland(C)	3.5	MS	1.5	-	7.6	S	5.8	6.9	3.9	5.5	MS	96.2	S
15	Bio 9981(C)	3.0	MR	1.0	-	5.2	MS	4.9	7.0	3.9	5.3	MS	93.2	S
16	P3522 (C)	4.0	MS	1.5	-	4.3	MR	3.6	5.0	4.0	4.2	MR	68.8	S
17	S. Check	5.0	S	2.5	-	6.3	MS	8.2	8.0	5.2	7.1	MS	90.0	S
18	R. Check	-	-	1.3	-	3.5	MR	1.0	-	-	1.0	R	12.8	MR

PZ*:- TLB data (1-9 scale) not considered due to low disease pressure.

Resistant Check:- TLB:- NAH 2049 (MANDYA); **C.ROT:-** PMH 1 (LUDHIANA); COH 6 (COIMBATORE); **SDM:-** NAH 1137 (MANDYA)

Susceptible Check:- TLB:- CML 186 (DHOLI); CM 202 (MANDYA); **C.ROT:-** 31Y45 (LUDHIANA); CM 501 (COIMBATORE);

G-25 (DHARWAD); BML 6 (HYDERABAD); **SDM:-** CM 500 (MANDYA)

Table 4. Screening of AVT I & II (medium maturity) and QPM-I-II maize hybrids

		TLB (1-5)				C.ROT (1-9)						SDM (%)		
		NEPZ		PZ*		NWPZ			PZ			PZ		
S.No.	Genotype	DHOL	Reaction	MAND	Reaction	LUDH	Reaction	COIM	DHAR	HYDE	Av. Score	Reaction	MAND	Reaction
AVT-I-Medium														
1	DKC8171(IP8204)	3.5	MS	1.0	-	4.5	MR	5.8	8.0	5.0	6.3	MS	100	S
2	BLH 109	2.0	R	1.0	-	4.9	MR	6.6	6.8	4.3	5.9	MS	88.7	S
3	HT 15066	2.5	MR	1.5	-	4.1	MR	6.7	7.4	5.5	6.5	MS	82.0	S
AVT-II-Medium														
4	CP.222	4.0	MS	1.0	-	3.7	MR	5.2	6.0	3.4	4.9	MR	93.8	S
5	BLH 101	4.5	S	2.0	-	3.7	MR	4.6	5.9	2.5	4.3	MR	81.8	S
6	PM142096M	3.0	MR	1.0	-	5.2	MS	5.7	6.0	3.7	5.1	MR	88.2	S
7	HT 1412081	3.5	MS	1.0	-	3.7	MR	5.1	7.3	5.4	5.9	MS	85.6	S
8	*Filler (against BH 412066)	3.5	MS	1.0	-	4.2	MR	5.8	6.9	3.9	5.5	MS	73.6	S
9	BLH 102	1.5	R	1.0	-	5.5	MS	1.7	5.8	4.7	4.1	MR	59.7	S
10	HM 10 (C)	2.5	MR	1.0	-	6.0	MS	4.6	6.2	4.3	5.0	MR	96.2	S
11	DHM 117 (C)	4.5	S	1.0	-	4.2	MR	5.5	8.0	5.4	6.3	MS	94.1	S
12	Bio 9544(C)	2.0	R	NG	-	5.5	MS	4.6	4.0	2.9	3.8	MR	9.3	R
13	Bio 9637(C)	2.5	MR	1.0	-	6.0	MS	4.1	6.8	3.3	4.7	MR	20.8	MR
QPM-I-II														
14	IHQPM-0906	4.0	MS	1.5	-	5.5	MS	5.4	6.8	4.3	5.5	MS	78.1	S
15	MMHQPM-6-12-13	2.5	MR	1.0	-	5.2	MS	6.3	4.7	3.4	4.8	MR	96.9	S
16	VEHQ-15-1	1.5	R	0.5	-	4.5	MR	5.3	5.8	3.1	4.7	MR	94.2	S
17	MMHQPM-10-11-15	3.5	MS	1.5	-	6.1	MS	1.6	6.0	3.8	3.8	MR	100	S
18	HQPM 1(C)	1.5	R	1.0	-	5.9	MS	4.7	5.8	3.4	4.6	MR	100	S
19	HQPM 5 (C)	3.0	MR	1.0	-	5.1	MR	5.1	7.7	2.8	5.2	MS	100	S
20	HQPM 7 (C)	2.0	R	0.5	-	3.7	MR	6.1	5.4	4.4	5.3	MS	100	S
21	S. Check	4.5	S	2.8	-	6.4	MS	6.8	8.0	5.2	6.7	MS	100	S
22	R. Check	-	-	1.3	-	3.9	MR	1.0	-	-	1.0	R	11.8	MR

PZ*:- TLB data (1-9 scale) not considered due to low disease pressure.

Resistant Check:- TLB:- NAH 2049 (MANDYA); C.ROT:- PMH 1 (LUDHIANA); COH 6 (COIMBATORE); SDM:- NAH 1137 (MANDYA)

Susceptible Check:- TLB:- CML 186 (DHOLI); CM 202 (MANDYA); C.ROT:- 31Y45 (LUDHIANA); CM 501 (COIMBATORE);

G-25 (DHARWAD); BML 6 (HYDERABAD); SDM:- CM 500 (MANDYA)

Table 5. Phenotyping of Association Mapping Panel against Charcoal Rot

C.ROT (1-9)				C.ROT (1-9)			
S.No.	Genotype	COIM	Reaction	S.No.	Genotype	COIM	Reaction
1	Tr C rot IMR 1	3.8	MR	44	IMR 91	1.1	R
2	IMR 2	2.8	R	45	IMR 97	4.7	MR
3	IMR 3	1.5	R	46	IMR 98	5.2	MS
4	IMR 4	5.8	MS	47	IMR 99	1.3	R
5	IMR 5	6.0	MS	48	IMR 100	4.1	MR
6	IMR 7	4.8	MR	49	IMR 101	6.3	MS
7	IMR 8	4.1	MR	50	IMR 102	6.8	MS
8	IMR 9	4.0	MR	51	IMR 103	2.1	R
9	IMR 11	5.1	MR	52	IMR 104	3.4	MR
10	IMR 12	6.1	MS	53	IMR 105	4.1	MR
11	IMR 14	7.3	S	54	IMR 106	4.5	MR
12	IMR 15	4.9	MR	55	IMR 107	6.8	MS
13	IMR 17	5.9	MS	56	IMR 108	1.3	R
14	IMR 18	6.5	MS	57	Tr. AM	1.4	R
15	IMR 19	1.2	R	58	IMR 109	1.0	R
16	IMR 20	3.0	R	59	Tr C rot IMR 110	6.3	MS
17	IMR 26	5.3	MS	60	IMR 111	6.5	MS
18	IMR 27	2.2	R	61	Tr AM 112	4.2	MR
19	IMR 29	5.6	MS	62	113	1.4	R
20	IMR 33	3.2	MR	63	Tr C rot 114	2.1	R
21	IMR 34	5.2	MS	64	115	4.7	MR
22	IMR 35	5.0	MR	65	Tr AM 116	1.2	R
23	IMR 36	2.1	R	66	121	1.0	R
24	IMR 39	4.0	MR	67	Tr c rot 122	2.1	R
25	IMR 40	1.2	R	68	Tr AM 124	3.4	MR
26	IMR 41	2.1	R	69	125	2.3	R
27	IMR 42	1.2	R	70	Tr c rot 126	4.7	MR
28	IMR 43	3.1	R	71	127	2.1	R
29	IMR 44	1.3	R	72	Tr AM 128	3.2	MR
30	IMR 49	3.8	MR	73	Tr c rot 130	2.6	R
31	IMR 50	1.7	R	74	Tr AM 131	2.2	R
32	IMR 55	7.0	MS	75	132	1.0	R
33	IMR 56	5.1	MR	76	133	1.1	R
34	IMR 58	4.8	MR	77	Tr c rot 134	4.2	MR
35	IMR 60	2.3	R	78	Tr AM 135	1.3	R
36	IMR 63	4.3	MR	79	136	4.3	MR
37	IMR 65	3.1	R	80	Tr c rot 137	5.1	MR
38	IMR 74	5.1	MR	81	Tr AM 138	2.1	R
39	IMR 75	2.2	R	82	139	1.7	R
40	IMR 76	0.0	R	83	145	1.3	R
41	IMR 77	1.1	R	84	146	2.7	R
42	IMR 82	5.2	MS	85	149	4.7	MR
43	IMR 87	3.3	MR	86	150	7.0	MS

Contd.

C.ROT (1-9)				C.ROT (1-9)			
S.No.	Genotype	COIM	Reaction	S.No.	Genotype	COIM	Reaction
87	151	6.8	MS	132	207	5.1	MR
88	152	2.1	R	133	208	2.1	R
89	153	3.2	MR	134	209	2.1	R
90	154	3.7	MR	135	210	1.2	R
91	Tr AM 155	4.8	MR	136	211	1.3	R
92	156	3.3	MR	137	212	2.2	R
93	157	5.2	MS	138	217	1.3	R
94	158	1.3	R	139	219	3.2	MR
95	160	3.2	MR	140	220	4.1	MR
96	161	6.7	MS	141	221	1.2	R
97	162	1.3	R	142	222	1.1	R
98	163	1.7	R	143	223	6.5	MS
99	164	1.2	R	144	224	1.3	R
100	169	1.7	R	145	225	5.2	MS
101	170	1.1	R	146	226	3.1	R
102	171	2.1	R	147	227	1.3	R
103	172	6.8	MS	148	228	1.3	R
104	174	1.3	R	149	229	1.1	R
105	175	7.1	MS	150	230	1.3	R
106	176	3.1	R	151	231	1.1	R
107	177	2.2	R	152	232	6.2	MS
108	178	3.4	MR	153	233	1.3	R
109	179	0.0	R	154	234	6.5	MS
110	180	5.8	MS	155	235	1.2	R
111	181	1.3	R	156	236	3.2	MR
112	182	4.3	MR	157	241	3.5	MR
113	183	1.3	R	158	243	5.8	MS
114	184	8.0	S	159	244	5.4	MS
115	185	4.2	MR	160	245	7.2	S
116	186	7.1	MS	161	247	5.2	MS
117	187	7.8	S	162	248	7.1	MS
118	188	2.1	R	163	248	5.2	MS
119	193	1.2	R	164	249	6.8	MS
120	194	1.2	R	165	250	6.7	MS
121	195	1.0	R	166	251	5.7	MS
122	196	4.1	MR	167	252	7.1	MS
123	197	5.3	MS	168	253	1.3	R
124	198	2.1	R	169	255	6.8	MS
125	199	1.3	R	170	256	7.2	S
126	201	4.2	MR	171	257	3.4	MR
127	202	1.3	R	172	258	1.3	R
128	203	5.1	MR	173	259	1.2	R
129	204	1.2	R	174	260	4.2	MR
130	205	2.1	R	175	265	5.8	MS
131	206	3.6	MR	176	266	8.0	S

Contd.

C.ROT (1-9)				C.ROT (1-9)			
S.No.	Genotype	COIM	Reaction	S.No.	Genotype	COIM	Reaction
177	267	1.2	R	222	323	1.7	R
178	268	3.5	MR	223	324	1.3	R
179	269	4.7	MR	224	325	1.3	R
180	270	2.8	R	225	326	3.4	MR
181	271	4.7	MR	226	327	3.8	MR
182	272	5.1	MR	227	328	4.7	MR
183	273	5.2	MS	228	329	4.3	MR
184	274	2.1	R	229	330	1.4	R
185	275	2.1	R	230	331	1.3	R
186	277	1.4	R	231	332	1.2	R
187	278	4.7	MR	232	337	1.1	R
188	279	1.2	R	233	338	1.3	R
189	281	1.3	R	234	339	3.7	MR
190	282	5.2	MS	235	340	1.2	R
191	283	3.8	MR	236	341	2.0	R
192	284	4.1	MR	237	342	2.1	R
193	289	5.3	MS	238	343	3.5	MR
194	290	1.4	R	239	344	2.2	R
195	291	3.2	MR	240	345	3.2	MR
196	292	2.2	R	241	346	1.3	R
197	293	1.2	R	242	347	1.2	R
198	294	4.3	MR	243	348	2.2	R
199	295	6.2	MS	244	349	3.4	MR
200	296	3.7	MR	245	350	5.7	MS
201	297	5.2	MS	246	351	1.3	R
202	298	3.0	R	247	357	2.2	R
203	299	4.2	MR	248	358	1.3	R
204	300	3.2	MR	249	359	1.0	R
205	301	4.3	MR	250	360	3.4	MR
206	302	5.3	MS	251	361	3.7	MR
207	303	4.3	MR	252	362	1.0	R
208	304	3.5	MR	253	363	1.4	R
209	305	3.1	R	254	364	1.3	R
210	306	1.2	R	255	365	1.3	R
211	308	1.3	R	256	366	4.5	MR
212	313	1.4	R	257	367	4.7	MR
213	314	3.2	MR	258	368	5.7	MS
214	315	1.3	R	259	369	5.3	MS
215	316	1.2	R	260	372	4.2	MR
216	317	4.3	MR	261	373	1.7	R
217	318	1.3	R	262	374	3.7	MR
218	319	4.1	MR	263	375	4.2	MR
219	320	1.3	R	264	376	2.2	R
220	321	1.7	R	265	377	1.1	R
221	322	2.1	R	266	378	1.1	R

Contd.

C.ROT (1-9)			
S.No.	Genotype	COIM	Reaction
267	379	1.1	R
268	380	3.1	R
269	381	2.3	R
270	382	2.1	R
271	383	1.1	R
272	384	1.7	R
273	385	3.9	MR
274	386	5.7	MS
275	387	4.9	MR
276	388	3.1	R
277	389	2.7	R
278	390	6.3	MS
279	391	6.1	MS
280	392	5.1	MR
281	393	4.8	MR
282	394	5.1	MR
283	395	4.7	MR
284	396	4.2	MR
285	397	5.1	MR
286	398	4.3	MR
287	399	3.1	R
288	400	4.2	MR
289	401	6.2	MS
290	402	6.7	MS
291	403	5.7	MS
292	404	4.5	MR
293	405	5.3	MS
294	406	2.1	R
295	407	2.4	R
296	408	5.2	MS
297	409	1.1	R
298	410	3.4	MR
299	411	2.2	R
300	412	8.0	S
301	413	2.1	R
302	414	4.2	MR
303	415	3.5	MR
304	416	3.0	R
305	417	2.2	R
306	418	8.7	S
307	Tr AM A	3.3	MR
308	Tr AM B	3.7	MR
309	TR AM C	4.3	MR
310	TR AM D	2.4	R
311	Sus.check (CM 501)	7.9	S
312	Res.check (CoH6)	1.0	R

Table 6. Phenotyping of Recombinant Inbred Line (RIL) Mapping Population (M 15)

MLB (1-9)				MLB (1-9)			
S.No.	Pedigree	DHOL	Reaction*	S.No.	Pedigree	DHOL	Reaction*
1	M15 -1	3.0	-	44	M15 -52	-	-
2	M15 -2	2.0	-	45	M15 -53	3.0	-
3	M15 -4	1.0	-	46	M15 -54	1.0	-
4	M15 -5	3.0	-	47	M15 -55	3.0	-
5	M15 -6	2.0	-	48	M15 -56	2.0	-
6	M15 -7	-	-	49	M15 -57	-	-
7	M15 -8	-	-	50	M15 -58	2.0	-
8	M15 -9	2.0	-	51	M15 -59	2.0	-
9	M15 -10	1.0	-	52	M15 -60	3.0	-
10	M15 -11	1.0	-	53	M15 -61	3.0	-
11	M15 -12	2.0	-	54	M15 -62	4.0	-
12	M15 -14	3.0	-	55	M15 -63	3.0	-
13	M15 -15	2.0	-	56	M15 -64	3.0	-
14	M15 -16	1.0	-	57	M15 -65	2.0	-
15	M15 -17	3.0	-	58	M15 -66	-	-
16	M15 -18	2.0	-	59	M15 -67	2.0	-
17	M15 -19	3.0	-	60	M15 -68	3.0	-
18	M15 -21	3.0	-	61	M15 -69	4.0	-
19	M15-22	3.0	-	62	M15 -70	5.0	-
20	M15 -23	2.0	-	63	M15 -71	4.0	-
21	M15 -24	3.0	-	64	M15 -72	3.0	-
22	M15 -25	3.0	-	65	M15 -73	4.0	-
23	M15 -27	-	-	66	M15 -74	3.0	-
24	M15 -28	2.0	-	67	M15 -76	2.0	-
25	M15 -29	3.0	-	68	M15 -77	3.0	-
26	M15 -30	1.0	-	69	M15 -79	3.0	-
27	M15 -31	3.0	-	70	M15 -80	2.0	-
28	M15 -32	-	-	71	M15 -82	4.0	-
29	M15 -33	3.0	-	72	M15 -83	-	-
30	M15 -34	2.0	-	73	M15 -84	2.0	-
31	M15 -35	3.0	-	74	M15 -85	1.0	-
32	M15 -36	2.0	-	75	M15 -86	3.0	-
33	M15 -37	3.0	-	76	M15 -87	3.0	-
34	M15 -38	2.0	-	77	M15 -88	2.0	-
35	M15 -41	1.0	-	78	M15 -90	1.0	-
36	M15 -43	3.0	-	79	M15 -92	1.0	-
37	M15 -44	3.0	-	80	M15 -93	-	-
38	M15 -45	-	-	81	M15 -94	3.0	-
39	M15 -47	2.0	-	82	M15 -95	2.0	-
40	M15 -48	-	-	83	M15 -97	2.0	-
41	M15 -49	2.0	-	84	M15 -98	3.0	-
42	M15 -50	3.0	-	85	M15 -99	-	-
43	M15 -51	2.0	-	86	M15 -100	1.0	-

Contd.

MLB (1-9)				MLB (1-9)			
S.No.	Pedigree	DHOL	Reaction*	S.No.	Pedigree	DHOL	Reaction*
87	M15 -101	2.0	-	132	M15 -150	2.0	-
88	M15 -102	3.0	-	133	M15 -151	2.0	-
89	M15 -104	3.0	-	134	M15 -152	3.0	-
90	M15 -105	1.0	-	135	M15 -153	3.0	-
91	M15 -106	2.0	-	135	M15 -154	-	-
92	M15 -107	3.0	-	137	M15 -155	2.0	-
93	M15 -108	2.0	-	138	M15 -156	-	-
94	M15 -109	3.0	-	139	M15 -157	2.0	-
95	M15 -110	1.0	-	140	M15 -158	3.0	-
96	M15 -111	2.0	-	141	M15 -159	2.0	-
97	M15 -112	1.0	-	142	M15 -160	-	-
98	M15 -113	1.0	-	143	M15 -163	2.0	-
99	M15 -115	2.0	-	144	M15 -164	5.0	-
100	M15 -116	2.0	-	145	M15 -165	3.0	-
101	M15 -117	3.0	-	146	M15 -166	5.0	-
102	M15 -118	3.0	-	147	M15 -167	3.0	-
103	M15 -119	1.0	-	148	M15 -168	2.0	-
104	M15 -120	2.0	-	149	M15 -169	2.0	-
105	M15 -121	4.0	-	150	M15 -170	3.0	-
106	M15 -122	-	-	151	M15 -172	2.0	-
107	M15 -123	3.0	-	152	M15 -173	3.0	-
108	M15 -124	4.0	-	153	M15 -174	3.0	-
109	M15 -125	-	-	154	M15 -175	3.0	-
110	M15 -126	1.0	-	155	M15 -176	3.0	-
111	M15 -127	3.0	-	156	M15 -177	4.0	-
112	M15 -128	1.0	-	157	M15 -178	5.0	-
113	M15 -129	4.0	-	158	M15 -179	2.0	-
114	M15 -130	3.0	-	159	M15 -180	3.0	-
115	M15 -131	2.0	-	160	M15 -181	-	-
116	M15 -132	1.0	-	161	M15 -182	3.0	-
117	M15 -134	3.0	-	162	M15 -183	1.0	-
118	M15 -135	2.0	-	163	M15 -184	2.0	-
119	M15 -136	2.0	-	164	M15 -185	3.0	-
120	M15 -137	-	-	165	M15 -186	3.0	-
121	M15 -138	4.0	-	167	M15 -188	2.0	-
122	M15 -139	3.0	-	168	M15 -189	5.0	-
123	M15 -140	3.0	-	169	M15 -190	3.0	-
124	M15 -141	2.0	-	170	M15 -191	4.0	-
125	M15 -142	1.0	-	171	M15 -192	3.0	-
126	M15 -143	-	-	172	M15 -193	3.0	-
127	M15 -144	3.0	-	173	M15 -194	-	-
128	M15 -146	4.0	-	174	M15 -195	-	-
129	M15 -147	-	-	175	M15 -196	4.0	-
130	M15 -148	1.0	-	176	M15 -199	5.0	-
131	M15 -149	2.0	-	177	M15 -200	5.0	-

Contd.

MLB (1-9)				MLB (1-9)			
S.No.	Pedigree	DHOL	Reaction*	S.No.	Pedigree	DHOL	Reaction*
178	M15 -202	2.0	-	223	M15 -252	5.0	-
179	M15 -203	3.0	-	224	M15 -253	3.0	-
180	M15 -204	3.0	-	225	M15 -254	2.0	-
181	M15 -205	2.0	-	226	M15 -255	3.0	-
182	M15 -207	-	-	227	M15 -256	4.0	-
183	M15 -208	2.0	-	228	M15 -257	5.0	-
184	M15 -209	2.0	-	229	M15 -258	2.0	-
185	M15 -210	3.0	-	230	M15 -259	3.0	-
186	M15 -211	-	-	231	M15 -261	3.0	-
187	M15 -212	1.0	-	232	M15 -262	-	-
188	M15 -213	3.0	-	233	M15 -263	3.0	-
189	M15 -214	3.0	-	234	M15 -264	3.0	-
190	M15 -215	4.0	-	235	M15 -265	2.0	-
191	M15 -217	2.0	-	236	M15 -266	3.0	-
192	M15 -218	4.0	-	237	M15 -267	1.0	-
193	M15 -219	3.0	-	238	M15 -268	1.0	-
194	M15 -220	2.0	-	239	M15 -269	3.0	-
195	M15 -221	3.0	-	240	M15 -270	-	-
196	M15 -222	2.0	-	241	M15 -271	2.0	-
197	M15 -223	3.0	-	242	M15 -272	2.0	-
198	M15 -224	-	-	243	M15 -273	1.0	-
199	M15 -225	5.0	-	244	M15 -274	3.0	-
200	M15 -226	3.0	-	245	M15 -275	1.0	-
201	M15 -227	2.0	-	246	M15 -276	2.0	-
202	M15 -228	4.0	-	247	M15 -277	2.0	-
203	M15 -229	3.0	-	248	M15 -278	3.0	-
204	M15 -230	2.0	-	249	M15 -279	3.0	-
205	M15 -231	3.0	-	250	M15 -280	-	-
206	M15 -232	2.0	-	251	M15 -281	-	-
207	M15 -233	3.0	-	252	M15 -282	3.0	-
208	M15 -234	4.0	-	253	M15 -283	2.0	-
209	M15 -236	3.0	-	254	M15 -284	4.0	-
210	M15 -238	2.0	-	255	M15 -285	3.0	-
211	M15 -239	-	-	256	M15 -286	1.0	-
212	M15 -240	3.0	-	257	M15 -287	3.0	-
213	M15 -241	4.0	-	258	M15 -288	1.0	-
214	M15 -242	2.0	-	259	M15 -289	3.0	-
215	M15 -243	5.0	-	260	M15 -290	-	-
216	M15 -244	3.0	-	261	M15 -291	3.0	-
217	M15 -245	2.0	-	262	M15 -292	2.0	-
218	M15 -247	3.0	-	263	M15 -293	4.0	-
219	M15 -248	2.0	-	264	M15 -295	-	-
220	M15 -249	5.0	-	265	M15 -296	-	-
221	M15 -250	3.0	-	266	M15 -297	2.0	-
222	M15 -251	3.0	-	267	M15 -298	3.0	-

Contd.

MLB (1-9)			
S.No.	Pedigree	DHOL	Reaction*
268	M15 -299	3.0	-
269	M15 -300	3.0	-
270	M15 -301	-	-
271	M15-302		
272	M15-303	-	-
273	M15 -304	3.0	-
274	M15 -305	3.0	-
275	M15 -306	5.0	
276	M15 -307	1.0	
277	M15 -308	2.0	-
278	M15 -309	4.0	-
279	M15 -310	1.0	
280	M15 -311	3.0	
281	M15 -312	4.0	-
282	M15 -312	1.0	-
283	M15 -314	-	-
284	M15 -315	2.0	
285	M15 -316	-	-
286	M15 -317	3.0	-
287	M15 -318	-	-
288	M15 -319	1.0	
289	M15 -320	2.0	
290	M15 -321	2.0	-
291	M15 -323	3.0	-
292	M15 -324	2.0	
293	M15 -325	3.0	

*** Disease pressure of MLB was low during Rabi 2016-17 and hence disease reaction can not be given.**

Table 7. Phenotyping of Recombinant Inbred Line (RIL) Mapping Population (M 16)

MLB (1-9)				MLB (1-9)			
S.No.	Pedigree	DHOL Reaction*		S.No.	Pedigree	DHOL Reaction*	
1	M16 -1	3.0	-	44	M16 -51	3.0	-
2	M16 -2	-	-	45	M16 -53	1.0	-
3	M16 -3	2.0	-	46	M16 -55	2.0	-
4	M16 -4	-	-	47	M16 -56	1.0	-
5	M16 -5	3.0	-	48	M16 -57	2.0	-
6	M16 -6	2.0	-	49	M16 -58	-	-
7	M16 -7	-	-	50	M16 -59	-	-
8	M16 -8	2.0	-	51	M16 -60	-	-
9	M16 -9	3.0	-	52	M16 -61	2.0	-
10	M16 -10	4.0	-	53	M16 -63	1.0	-
11	M16 -11	-	-	54	M16 -64	1.0	-
12	M16 -13	4.0	-	55	M16 -65	3.0	-
13	M16 -14	-	-	56	M16 -66	-	-
14	M16 -15	2.0	-	57	M16 -67	2.0	-
15	M16 -16	3.0	-	58	M16 -68	4.0	-
16	M16 -17	2.0	-	59	M16 -69	3.0	-
17	M16 -18	2.0	-	60	M16 -70	-	-
18	M16 -20	3.0	-	61	M16 -71	3.0	-
19	M16 -21	3.0	-	62	M16 -72	-	-
20	M16 -23	3.0	-	63	M16 -73	2.0	-
21	M16 -24	2.0	-	64	M16 -75	2.0	-
22	M16 -26	2.0	-	65	M16 -76	-	-
23	M16 -27	5.0	-	66	M16 -77	4.0	-
24	M16 -28	-	-	67	M16 -78	-	-
25	M16 -29	3.0	-	68	M16 -79	3.0	-
26	M16 -30	5.0	-	69	M16 -80	3.0	-
27	M16 -31	3.0	-	70	M16 -81	4.0	-
28	M16 -32	2.0	-	71	M16 -82	2.0	-
29	M16 -33	2.0	-	72	M16 -83	2.0	-
30	M16 -34	3.0	-	73	M16 -84	3.0	-
31	M16 -35	4.0	-	74	M16 -85	1.0	-
32	M16 -36	4.0	-	75	M16 -86	2.0	-
33	M16 -37	3.0	-	76	M16 -88	3.0	-
34	M16 -38	2.0	-	77	M16 -89	1.0	-
35	M16 -39	3.0	-	78	M16 -90	3.0	-
36	M16 -41	4.0	-	79	M16 -91	2.0	-
37	M16 -42	1.0	-	80	M16 -92	4.0	-
38	M16 -43	3.0	-	81	M16 -94	-	-
39	M16 -44	4.0	-	82	M16 -95	2.0	-
40	M16 -45	3.0	-	83	M16 -96	3.0	-
41	M16 -46	4.0	-	84	M16 -98	3.0	-
42	M16 -47	4.0	-	85	M16 -99	1.0	-
43	M16 -50	2.0	-	86	M16 -101	2.0	-

Contd.

MLB (1-9)				MLB (1-9)			
S.No.	Pedigree	DHOL Reaction*		S.No.	Pedigree	DHOL Reaction*	
87	M16 -102	3.0	-	132	M16 -154	1.0	-
88	M16 -103	1.0	-	133	M16 -155	3.0	-
89	M16 -104	2.0	-	134	M16 -156	-	-
90	M16 -105	-	-	135	M16 -157	-	-
91	M16 -106	4.0	-	135	M16 -158	-	-
92	M16 -107	1.0	-	137	M16 -159	-	-
93	M16 -108	2.0	-	138	M16 -160	-	-
94	M16 -110	4.0	-	139	M16 -161	3.0	-
95	M16 -111	2.0	-	140	M16 -162	1.0	-
96	M16 -113	3.0	-	141	M16 -163	2.0	-
97	M16 -114	4.0	-	142	M16 -164	3.0	-
98	M16 -115	-	-	143	M16 -165	4.0	-
99	M16 -116	-	-	144	M16 -166	2.0	-
100	M16 -117	-	-	145	M16 -167	2.0	-
101	M16 -118	-	-	146	M16 -168	3.0	-
102	M16 -119	2.0	-	147	M16 -170	3.0	-
103	M16 -120	3.0	-	148	M16 -171	2.0	-
104	M16 -121	-	-	149	M16 -172	-	-
105	M16 -122	1.0	-	150	M16 -173	-	-
106	M16 -123	3.0	-	151	M16 -176	2.0	-
107	M16 -124	3.0	-	152	M16 -177	1.0	-
108	M16 -125	2.0	-	153	M16 -178	3.0	-
109	M16 -127	-	-	154	M16 -179	3.0	-
110	M16 -128	-	-	155	M16 -180	3.0	-
111	M16 -129	-	-	156	M16 -181	-	-
112	M16 -130	-	-	157	M16 -183	3.0	-
113	M16 -131	4.0	-	158	M16 -184	1.0	-
114	M16 -132	-	-	159	M16 -185	2.0	-
115	M16 -134	3.0	-	160	M16 -187	3.0	-
116	M16 -135	5.0	-	161	M16 -188	-	-
117	M16 -136	3.0	-	162	M16 -189	-	-
118	M16 -138	4.0	-	163	M16 -190	-	-
119	M16 -139	5.0	-	164	M16 -191	-	-
120	M16 -140	-	-	165	M16 -192	3.0	-
121	M16 -141	4.0	-	166	M16 -193	2.0	-
122	M16 -142	1.0	-	167	M16 -194	1.0	-
123	M16 -143	3.0	-	168	M16 -195	2.0	-
124	M16 -144	2.0	-	169	M16 -197	1.0	-
125	M16 -145	2.0	-	170	M16 -198	2.0	-
126	M16 -146	3.0	-	171	M16 -199	1.0	-
127	M16 -147	4.0	-	172	M16 -200	4.0	-
128	M16 -148	5.0	-	173	M16 -201	3.0	-
129	M16 -150	-	-	174	M16 -202	2.0	-
130	M16 -151	-	-	175	M16 -203	2.0	-
131	M16 -152	5.0	-	176	M16 -205	3.0	-

Contd.

MLB (1-9)			MLB (1-9)		
S.No.	Pedigree	DHOL Reaction*	S.No.	Pedigree	DHOL Reaction*
177	M16 -206	3.0 -	222	M16 -255	- -
178	M16 -207	3.0 -	223	M16 -256	2.0 -
179	M16 -208	2.0 -	224	M16 -257	- -
180	M16 -209	2.0 -	225	M16 -258	4.0 -
181	M16 -210	1.0 -			
182	M16 -211	1.0 -			
183	M16 -212	5.0 -			
184	M16 -213	1.0 -			
185	M16 -214	- -			
186	M16 -215	3.0 -			
187	M16 -216	2.0 -			
188	M16 -217	- -			
189	M16 -218	1.0 -			
190	M16 -219	1.0 -			
191	M16 -220	- -			
192	M16 -221	2.0 -			
193	M16 -223	4.0 -			
194	M16 -224	- -			
195	M16 -225	3.0 -			
196	M16 -227	- -			
197	M16 -228	3.0 -			
198	M16 -229	- -			
199	M16 -230	2.0 -			
200	M16 -231	2.0 -			
201	M16 -232	1.0 -			
202	M16 -233	2.0 -			
203	M16 -234	1.0 -			
204	M16 -235	3.0 -			
205	M16 -236	4.0 -			
206	M16 -237	- -			
207	M16 -238	3.0 -			
208	M16 -240	1.0 -			
209	M16 -241	4.0 -			
210	M16 -242	4.0 -			
211	M16 -243	- -			
212	M16 -244	3.0 -			
213	M16 -245	2.0 -			
214	M16 -246	2.0 -			
215	M16 -247	3.0 -			
216	M16 -248	3.0 -			
217	M16 -249	- -			
218	M16 -250	3.0 -			
219	M16 -251	1.0 -			
220	M16 -253	1.0 -			
221	M16 -254	- -			

* Disease pressure of MLB was low during Rabi 2016-17 and hence disease reaction can not be given.

Table 8. Screening of MSRIT-12 CIMMYT trial against C.Rot at Dharwad

C.ROT (1-9)						
S.No.	Stock ID	Name	Pedigree	Origin	DHAR	Reaction
1	SN-156-14		DTPYC9-F102-3-1-2-2-1-2-2-B-B-B1-B	HYD13K-PTN13126-16	6.9	MS
2	SN-156-6	SNL142789	(DT/LN/EM-46-3-1x CML311-2-1-3)-B- F350-1-1-1-B	HYD13K-PTN13126-7	7.5	S
3	SN-156-15		CML-311-2-1-1-B-B-B-B-B-B-B	HYD13K-PTN13126-17	7.2	S
4	SN268-153	VL0512420	CML226-1-2-2-1-B*11-B	HY14R-N14209-176	4.3	MR
5	SN269-44	VL055063	[Ent320:92SEW2-77/[DMRESR-W]EarlySel-#1-2-4-B/CML386]-B-11-3- B-2-#-B*4-1-B*8-B	HY14R-N14210-50	4.5	MR
6	SN279-38	VL05552	CML491-B*8-B-B	HY15K-N15105-39	5.4	MS
7	SN268-3	VL062618	DTPYC9-F38-4-3-1-2-B*8-B	HY14R-N14209-3	7.4	S
8	SN268-94	VL062623	DTPYC9-F102-4-5-1-1-BBB-B2-B*5-B	HY14R-N14209-103	7.5	S
9	SN269-74	VL062630	DTPYC9-F114-2-4-1-2-B*5-B	HY14R-N14210-88	6.7	MS
10	SN268-40	VL062632	DTPYC9-F72-1-2-1-1-B*7-B	HY14R-N14209-41	6.0	MS
11	SN268-14	VL105555	SW5-10-B*5-2-B*8-B	HY14R-N14209-15	4.6	MR
12	SN278-48	VL1017749	P31C4S5B-99-JMM-B*8-1-B*6-B-B	HY15K-N15103-49	4.2	MR
13	SN280-142	VL1018145	POOL16BNSEQC3F22x1-3-2-2-2-B*9-B-B	HY15K-N15104-146	7.6	S
14	SN280-18	VL1077	TL-SEQUIAS03446-1-B-7-1-B*9-B-B	HY15K-N15104-19	3.8	MR
15	SN278-54	VL1018172	POOL16BNSEQC3F28x15-3-1-2-2-B*8-B-B	HY15K-N15103-55	7.8	S
16	SN269-84	SNL153297	CML254-B*8-B	HY14R-N14210-99	6.4	MS
17	SN270-19	VL1018803	DTPYC9-F125-2-8-1-1-B*8-B	HY14R-N14208-19	6.4	MS
18	SN268-7	VL1018806	CLA44-B*5-B	HY14R-N14209-7	6.8	MS
19	SN270-53	SNL1411632	CA03118-B-4-4-2-B-B2-B*4-B	HY14R-N14208-57	6.4	MS
20	SN298-105	VL105546	P45C6HC63-3-1-1-B-2-3-4-1-B*4-1-B*7-B-B	HYD15R-N15218-113	3.8	MR
21	SN268-163	VL105551	POP352CO-HS324-2-2-BB-2-B-1-B*8-B	HY14R-N14209-189	4.0	MR
22	SN269-11	VL105554	SW3-17-BB-2-BBB-2-B*8-B	HY14R-N14210-13	4.0	MR
23	SN269-61	VL108723	CA00310/AMATLCOHS71-1-1-2-1-1-1-B*17-B	HY14R-N14210-72	3.5	MR
24	SN244-11	VL108855	DTPYC9-F142-1-3-1-2-1-2-2-B*7-B	HY14K-N14133-13	7.6	S
25	SN270-10	VL108860	DTPYC9-F145-3-2-1-2-2-1-2-B*6-B	HY14R-N14208-10	7.5	S

Contd.

Table-8

C.ROT (1-9)						
S.No.	Stock ID	Name	Pedigree	Origin	DHAR	Reaction
26	SN287-40	SNL153223	G18SeqC5F19-1-2-1-2-4-B*7-B-B	HY15K-N15112-45	7.3	S
27	SN270-35	VL109080	G18SeqC5F19-1-2-1-2-2-B*6-B	HY14R-N14208-36	5.5	MS
28	SN280-134	VL109179	P31C4S5B-23-##-6-B*6-5-B-1-B*6-B-B	HY15K-N15104-137	7.7	S
29	SN244-40	VL109179	P31C4S5B-23-##-6-B*7-3-B-1-B*6-B	HY14K-N14133-45	8.0	S
30	SN270-56	VL109186	Pop31C4S5B-6-##-1-2-B*5-B1-BB-2-B*6-B	HY14R-N14208-60	6.5	MS
31	SN269-86	SNL153298	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F148-1-1-1-1-1-BBB-B	HY14R-N14210-101	5.4	MS
32	SN280-100	VL121095	CLA41-B*6-B-B	HY15K-N15104-102	8.2	S
33	SN280-97	VL1212	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F294-1-1-1-B*4-B-B	HY15K-N15104-99	7.2	S
34	SN278-7	VL1213	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F303-1-1-1-B*7-B-B	HY15K-N15103-7	7.2	S
35	SN268-185	VL144077	CL-RCY031=(CL-02410*CML287)-B-9-1-1-2-B*12-B	HY14R-N14209-213	6.4	MS
36	SN269-19	VL1231	CL-RCW97-B*6-B	HY14R-N14210-21	6.9	MS
37	SN268-149	VL1239	SO4YLWL-90-B-3-1-B-1-B*7-B	HY14R-N14209-172	6.7	MS
38	SN268-150	VL1245	WLS-F191-2-1-1-B-1-B*7-B	HY14R-N14209-173	6.7	MS
39	SN268-151	VL1247	WLS-F238-2-2-1-B-1-B*4-B1-BB-B	HY14R-N14209-174	6.4	MS
40	SN268-184	SNL153291	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F164-1-1-1-B*6-B	HY14R-N14209-212	7.8	S
41	SN280-136	VL1259	CL-RCY023=(CL-02439*CML286)-B-1-2-2-B*13-B-B	HY15K-N15104-139	6.6	MS
42	SN278-11	VL126	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F191-1-1-1-B1-B*4-B-B	HY15K-N15103-11	6.5	MS
43	SN280-41	VL108870	DTPYC9-F46-3-6-1-2-2-1-2-B*7-B-B	HY15K-N15104-43	4.6	MR
44	SN280-87	VL1012767	(CTS013050/(AMATLC0HS167-1-1-1-2F/R)-B*5/Ki44)-B*11-B-B	HY15K-N15104-89	6.9	MS
45	SN280-53	VL108504	CA00102/CA00106-B-13-1-B*7-B-B	HY15K-N15104-55	6.5	MS
46	SN244-192	VL108882	EY-DMR-C5-S2-BB-3-2-B*6-1-B*6-B	HY14K-N14133-228	3.6	MR
47	SN280-93	VL109524	(CML165xKI45)-B-14-1-B*4-1-B*7-B-B	HY15K-N15104-95	6.8	MS
48	SN280-42	VL108870	DTPYC9-F46-3-6-1-2-2-1-1-BB-B1-B2-BBB-B-B	HY15K-N15104-44	7.5	S
49	SN279-39	VL1018680	CML495-B*7-B-B	HY15K-N15105-40	3.6	MR
50	SN279-2	VL109582	CLQ-RCYQ36-B-1-B*8-B-B	HY15K-N15105-2	3.5	MR
51	SN298-106	VL1048	CLRCY039-B*7-B-B	HYD15R-N15218-114	3.8	MR
52	SN279-41	VL05550	CML503-B*8-B-B	HY15K-N15105-42	5.3	MS

Contd.

Table-8

C.ROT (1-9)						
S.No.	Stock ID	Name	Pedigree	Origin	DHAR	Reaction
53	SN279-84	VL1018553	CML344-B*8-B	HY15K-N15105-91	6.3	MS
54	SN279-48	VL109282	(CML161xCLQ-RCYQ31)-B-3-6-BB-3-B*8-B-B	HY15K-N15105-51	7.7	S
55	SN270-30	VL1251	WLS-F36-4-2-2-B-1-B*7-B	HY14R-N14208-31	4.6	MR
56	SN270-64	VL1062	Messina-03445(S2-Syn)-F1Bulk-78-2-1-B*9-B	HY14R-N14208-68	7.5	S
57	SN278-20	VL062625	DTPYC9-F46-1-2-1-1-B*7-B-B	HY15K-N15103-20	7.1	MS
58	SN270-9	VL1018792	CML329/MBRc2amF14-2-B*9-B	HY14R-N14208-9	7.1	MS
59	SN278-37	VL109086	G18SeqC5F76-2-1-2-1-1-B*8-B-B	HY15K-N15103-38	5.6	MS
60	SN280-10	VL127	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B*7-B-B	HY15K-N15104-10	7.6	S
61	SN280-26	SNL142288	CLQ-RCYQ40=(CML165xCLQ-6203)-B-9-1-1-B-2-B*4-1-B*8-B-B	HY15K-N15104-27	5.6	MS
62	SN280-115	VL051963	CML186-1-B*6-B-B	HY15K-N15104-117	5.8	MS
63	SN268-138	VL109307	CLQ-RCYQ035-B*13-B	HY14R-N14209-161	7.9	S
64	SN280-104	VL108869	DTPYC9-F46-3-1-1-2-3-2-2-B*9-B-B	HY15K-N15104-106	6.9	MS
65	SN280-14	VL107539	(CA14515/CA14509)-F2-7-3-B*11-B-B	HY15K-N15104-15	7.0	MS
66	SN280-43	VL108303	[CML327xCML287]F2-32-1-B*5-1-B*8-B-B	HY15K-N15104-45	4.8	MR
67	SN316-5	VL1036	CL02450	HYD15R-N15228-5	7.6	S
68	SN316-3	VL105612	CML474	HYD15R-N15228-3	7.5	S
69	SN316-2	VL105611	CML470	HYD15R-N15228-2	8.1	S
70	SN316-6	VL1053	CML165	HYD15R-N15228-6	6.4	MS
71	SN316-7	VL1018419	CML193	HYD15R-N15228-7	7.1	MS
72	SN316-4	VL1012756	CML472	HYD15R-N15228-4	7.2	S
73	SN316-1	VL1055	CML451	HYD15R-N15228-1	3.3	MR
74	SN280-131	VL109470	(CLQ-RCYQ31xCLQ-RCYQ49=(CML176xCL-G2501)-B-55-2-1-B)-B-34-1-BB-4-B*8-B-B	HY15K-N15104-134	3.8	MR
75	SN280-22	VL109480	(CML150xCL-03618)-B-11-1-1-1-B*4-1-B*8-B-B	HY15K-N15104-23	4.0	MR
76	SN298-77	VL1010764	(CML165xCL-02843)-B-12-3-1-BB-1-B*8-B-B-B	HYD15R-N15218-81	3.7	MR
77	SN280-93	VL109524	(CML165xKI45)-B-14-1-B*4-1-B*7-B-B	HY15K-N15104-95	5.7	MS

Contd.

Table-8

C.ROT (1-9)						
S.No.	Stock ID	Name	Pedigree	Origin	DHAR	Reaction
78	SN280-10	VL127	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B*7-B-B	HY15K-N15104-10	5.5	MS
79	SN298-39	VL1217	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F43-1-1-1-B*5-B-B-B	HYD15R-N15218-42	4.8	MR
80	SN278-38	VL1052	CML161	HY15K-N15103-39	5.2	MS
81	SN298-69	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*4-B-B-B	HYD15R-N15218-73	8.1	S
82	SN287-47	VL1016197	CA00314-2-B-3-B*8-B-B	HY15K-N15112-54	5.6	MS
83	SN279-24	VL0512418	CML224-B*9-B-B	HY15K-N15105-25	4.8	MR
84	SN280-149	VL0512420	CML226-1-2-2-1-B*11-B-B	HY15K-N15104-153	6.2	MS
85	SN279-36	VL0510130	CML488-B*5-B-B	HY15K-N15105-37	7.5	S
86	SN278-80	SNL153271	POOL16BNSEQC3F34x31-2-1-2-3-B*7-B-B	HY15K-N15103-82	6.8	MS
87	SN280-164	VL1069	Pop445c1F2-207-2-B-6-BB-1-B*6-B-B		6.7	MS
88	SN278-86	VL108734	SW92145-2EV-7-3-B*5-5-B-1-B*5-B-B	HY15K-N15103-88	6.4	MS
89	SN295-11	SNL142543	(CA14514-8-1-2-B/CA00106-9-B-2-B)-BB-5-2-BB-B	HYD15R-N15210.-10	7.5	S
90	SN295-19	SNL142535	(CA14514-4-3-1-B/CA00106-9-B-2-B)-BB-12-1-BB-B	HYD15R-N15210.-18	6.1	MS
91	SN295-21	SNL142507	(CA14514-4-1-1-B/CA00106-9-B-2-B)-BB-1-1-BB-B	HYD15R-N15210.-20	6.5	MS
92	SN295-56	SNL142468	(CA14514-8-1-2-B/CA14514-9-4-2-B)-B-11-1-BB-B	HYD15R-N15210.-56	6.5	MS
93	SN295-72	SNL142411	(CA14514-7-B-2-B/CA14514-9-6-3-B)-B-6-1-BB-B	HYD15R-N15210.-72	5.8	MS
94	SN250-59	SNL1559	(DMSyn-C0)-39-1-B-1	HY14K-DMIT-21-55-1	7.0	MS
95	SN250-74	SNL1574	(DMSyn-C0)-40-1-B-1	HY14K-DMIT-21-69-1	5.4	MS
96	SN250-50	SNL1550	(DMSyn-C0)-73-3-B-1	HY14K-DMIT-21-47-1	6.3	MS
97	SN250-70	SNL1570	(DMSyn-C0)-62-1-B-1	HY14K-DMIT-21-65-1	6.8	MS
98	SN250-80	SNL1580	(DMSyn-C0)-15-2-B-1	HY14K-DMIT-21-75-1	6.6	MS
99	SN250-61	SNL1561	(DMSyn-C0)-12-1-B-1	HY14K-DMIT-21-57-1	7.1	MS
100	SN280-131	VL109470	(CLQ-RCYQ31xCLQ-RCYQ49=(CML176xCL-G2501)-B-55-2-1-B)-B-34-1-BB-4-B*8-B-B	HY15K-N15104-134	4.1	MR
101	Susceptible Check	G-25			8.0	S

Table 1a. Screening of NIVT (late maturity) maize hybrids

C.Rust (1-9)			C.Rust (1-9)		
NWPZ			NWPZ		
S.No.	Genotype	KARN Reaction	S.No.	Genotype	KARN Reaction
1	DKC 9181 (IR8494)	6.0 MS	25	HT 16047	4.0 MR
2	VNR-32994	5.0 MS	26	PM16201L	4.5 MS
3	Super 3366	3.5 MR	27	JH 248	6.0 MS
4	JH 412	5.5 MS	28	GK3208	5.0 MS
5	Rasi 1107	4.5 MS	29	IH-031	4.0 MR
6	JH 358	3.5 MR	30	IH-0712	4.5 MS
7	KH-1226	4.5 MS	31	HT 16052	5.0 MS
8	PM16203L	4.0 MR	32	GK3209	5.0 MS
9	BLH 116	4.0 MR	33	DAS-MH-904	4.5 MS
10	ADV 7037	6.5 S	34	IH-1304	4.0 MR
11	Star-47	5.0 MS	35	DKC 9188 (IR8737)	5.5 MS
12	BLH 113	5.5 MS	36	CMH 2829	5.5 MS
13	PM16207L	4.0 MR	37	Rasi 2015	4.5 MS
14	DAS-MH-903	5.0 MS	38	JH 295	6.5 S
15	JH 273	4.5 MS	39	CMH 2725	5.0 MS
16	PM16205L	4.5 MS	40	MM2033	4.0 MR
17	KH-2124	5.0 MS	41	KWS-8933	3.0 MR
18	JH 409	3.5 MR	42	Star-57	4.5 MS
19	PM16202L	4.0 MR	43	ADV 7139	3.0 MR
20	IH-0330	5.5 MS	44	PM16206L	4.5 MS
21	KWS-8915	4.0 MR	45	P3522 (C)	4.5 MS
22	BIO 305	5.0 MS	46	Seedtech 2324 (C)	6.0 MS
23	REH-2014-6	3.5 MR	47	Buland (C)	5.5 MS
24	PM16204L	5.0 MS	48	Bio 9981 (C)	3.0 MR
-	Susceptible Check (HKI 536 YN)	7.2 S			

Addendum-II

Table 2a. Screening of NIVT (medium maturity) maize hybrids

C.Rust (1-9)			C.Rust (1-9)		
NWPZ			NWPZ		
S.No.	Genotype	KARN Reaction	S.No.	Genotype	KARN Reaction
1	IMHBG16R-5	3.5 MR	19	100 K-18	3.0 MR
2	VaMH 12013	4.5 MS	20	IMHBG16R-8	3.5 MR
3	HKH 358	2.5 MR	21	DKC8185 (IR8332)	3.0 MR
4	AH 7005	4.0 MR	22	MMH15-9	4.0 MR
5	KH-7502	4.5 MS	23	IMHBG16R-7	3.0 MR
6	IMHBG16R-2	3.0 MR	24	IMH16-12 (S23XS9)	3.5 MR
7	IMH16-14 (S17XS36)	2.5 MR	25	MMH15-8	4.0 MR
8	CP.898	5.0 MS	26	IMHBG16R-9	2.5 MR
9	IMHBG16R-1	3.0 MR	27	REH-2015-2	4.0 MR
10	HKH 360	3.5 MR	28	REH-2014-3	4.0 MR
11	VEH-16-1	4.0 MR	29	IMHBG16R-3	4.0 MR
12	IMH16-15 (S9XS6)	3.5 MR	30	WH 1010	2.5 MR
13	100K-16	2.5 MR	31	IMHBG16R-4	4.5 MS
14	REH-2015-1	3.5 MR	32	Bio 9544 (C)	3.0 MR
15	IMH16-13 (S25XS13)	2.5 MR	33	DHM 117 (C)	5.0 MS
16	IMHBG16R-10	3.5 MR	34	HM 10 (C)	4.0 MR
17	IMHBG16R-6	3.5 MR	35	Bio 9637 (C)	4.0 MR
18	HKH 359	4.0 MR			
-	Susceptible Check (HKI 536 YN)	7.2 S			

Addendum-III

Table 3a. Screening of AVT I & II (late maturity) maize hybrids

AVT-I-Late			AVT-II-Late		
C.Rust (1-9)			C.Rust (1-9)		
NWPZ			NWPZ		
S.No.	Genotype	KARN Reaction	S.No.	Genotype	KARN Reaction
1	KMH-3981	6.0 MS	9	DKC 9165 (IM8119)	6.0 MS
2	DKC9177 (IP8572)	6.5 S	10	PM14205L	5.5 MS
3	DKC9170 (IQ8579)	4.5 MS	11	NMH 1290	5.0 MS
4	PM15202L	5.0 MS	12	Rasi 394	5.5 MS
5	DKC9175 (IP8514)	5.0 MS	13	Seedtech 2324 (C)	4.5 MS
6	MM 2222	3.5 MR	14	Buland (C)	3.5 MR
7	115-08-01	4.5 MS	15	Bio 9981 (C)	4.5 MS
8	CP.808	3.0 MR	16	P3522 (C)	4.5 MS
-	Susceptible Check (HKI 536 YN)	7.2 S			

Table 4a. Screening of AVT I & II (medium maturity) and QPM-I-II maize hybrids

C.Rust (1-9)			
NWPZ			
S.No.	Genotype	KARN	Reaction
AVT-I-Medium			
1	DKC8171(IP8204)	4.0	MR
2	BLH 109	3.5	MR
3	HT 15066	2.0	R
AVT-II-Medium			
4	CP.222	2.5	MR
5	BLH 101	2.5	MR
6	PM142096M	3.0	MR
7	HT 1412081	2.5	MR
8	*Filler (against BH 412066)	3.5	MR
9	BLH 102	2.5	MR
10	HM 10 (C)	2.0	R
11	DHM 117 (C)	3.0	MR
12	Bio 9544 (C)	3.5	MR
13	Bio 9637 (C)	3.5	MR
QPM-I-II			
14	IHQPM-0906	2.5	MR
15	MMHQPM-6-12-13	2.5	MR
16	VEHQ-15-1	3.0	MR
17	MMHQPM-10-11-15	3.0	MR
18	HQPM 1 (C)	3.0	MR
19	HQPM 5 (C)	2.5	MR
20	HQPM 7 (C)	2.5	MR
-	Susceptible Check (HKI 536 YN)	7.2	S

Table 9. Assessment of avoidable yield losses due to Charcoal stalk rot at Dharwad

Replication	Treatment	Disease Rating scale (1-9)	PDI	Grain Yield (kg/ha)	Per cent loss in yield
R1	Protected	3.4	38.76	6170.84	21.10
	Unprotected	6.8	68.93	4868.33	
R2	Protected	3.5	36.52	6039.45	19.43
	Unprotected	7.0	71.66	4865.50	
R3	Protected	3.3	35.33	6615.32	20.38
	Unprotected	6.7	67.40	5266.84	
R4	Protected	3.2	35.25	6453.25	23.48
	Unprotected	7.0	67.46	4937.66	
R5	Protected	3.3	37.98	6280.36	20.80
	Unprotected	6.9	66.57	4974.50	
R6	Protected	3.6	40.91	6338.66	19.64
	Unprotected	7.2	72.66	5093.70	
R7	Protected	3.4	39.82	6483.50	23.02
	Unprotected	7.4	72.85	4990.66	
R8	Protected	3.6	42.20	6155.41	21.85
	Unprotected	6.8	66.50	4810.35	
R9	Protected	3.5	41.19	6375.66	21.13
	Unprotected	7.2	69.66	5028.43	
Mean Avoidable yield loss (%)				-	21.20

Test Hybrid: 900 M Super

Protected: 1) Local strains of fungal biogents: *Trichoderma harzianum* (UASD-1) @ 0.5% as seed treatment, bio-agent fortified FYM (1:50) furrow placement and spray @ 0.5%.

2) Muriate of potash 80kg/ha additional dose at 45 day after sowing

Un Protected: No treatment

Table 10. Efficacy of bioagents, fungicides and potash in control of post flowering stalk rot (PFSR) at Dharwad

Treatments		Mean disease score	PDI	Disease control (%)	Grain yield	
					(q/ha)	Increase over control (%)
T1	TH-3 @ 0.5% as seed treatment and incubated FYM (1:50) and spray @ 0.5%	3.6	40.87 (42.81)	40.94	57.83	16.45
T2	<i>Pseudomonas fluorescens</i> @ 0.5% as seed treatment, bioagent-fortified FYM (1:50) and spray @ 0.5%	3.4	36.22 (36.39)	47.66	60.25	21.32
T3	Local strains of fungal antagonists: <i>Trichoderma harzianum</i> Dharwad 1 (Local strain) @ 0.5% as seed treatment bioagentfortified and incubated FYM (1:50) and spray @ 0.5%	3.5	37.14 (37.52)	46.33	58.66	18.12
T4	Spraying of muriate of potash @ 2% at 30 days after planting	5.8	56.89 (48.97)	17.8	52.33	5.37
T5	Propiconazole @ 0.1% spray at 40 DAS	6.2	61.52 (51.70)	11.12	50.68	2.05
T6	Double dose of muriate of potash at 45 DAS	6.0	59.30 (50.40)	14.31	51.40	3.50
T7	Untreated check (water spray)	6.8	69.21 (56.26)	-	49.66	-
SE.m±			1.28	-	1.93	-
CD (p=0.05)			3.86	-	5.68	-
CV (%)			9.37	-	16.06	-

Figures in parenthesis are arc sine transformed values

Test Hybrid: 900 M Super

Conclusion:- *Pseudomonas fluorescens* @ 0.5% as seed treatment, bioagent-fortified FYM (1:50) and spray @ 0.5% found effective in suppressing the PFSR. This treatment recorded significantly lower disease severity (36.22%) and maximum grain yield (60.25 q/ha). The treatment recorded 47.66% disease control efficacy and resulted in 21.32% increase in grain yield over untreated check. Nevertheless the treatments viz., T₃: Local strains of fungal antagonists: *Trichoderma harzianum* Dharwad 1 (Local strain) @ 0.5% as seed treatment bioagent-fortified and incubated FYM (1:50) and spray @ 0.5% and T₁: TH-3 @ 0.5% as seed treatment and incubated FYM (1.50) and spray @ 0.5% was also equally effective. Treatments viz., T₁, T₂ and T₃ were statistically at par with respect to disease severity and grain yield.

Table 11. Efficacy of fungicides against common rust (*Puccinia sorghi*) of maize at Karnal centre

S. No.	Treatment	PDI*	Disease control (%)	Grain yield	
				(q/ha)	Increase over control (%)
1	Difenconazole @ 0.1 %	44.0 (44.0)	43.7	8.50	29.57
2	Hexaconazole @ 0.1%	48.1 (43.9)	40.2	8.16	24.61
3	Tebuconazole @ 0.05%	45.3 (42.3)	45.3	9.06	38.46
4	Propiconazole @ 0.1%	43.2 (41.1)	46.3	10.06	53.84
5	Trifloxystrobin 25% + Tebuconazole 50% @ 0.05%	42.4 (40.6)	47.3	10.60	61.58
6	Azoxystrobin @ 0.05%	51.7 (45.9)	35.8	8.00	22.15
7	Inoculated Control	80.5 (64.0)	0.0	6.56	0.00
8	Untreated check	67.2 (55.0)	16.6	7.83	19.35
9	(water spray)	60.2 (50.9)	25.2	7.90	20.42
10	Sem+	1.14		0.35	
11	CD (p=0.05)	(3.44)		1.05	
12	CV (%)	4.17		7.12	

*Figures in parenthesis are angular transformed values

Test Hybrid: HKI 536 YN

Conclusion:- Six fungicides were evaluated against common rust as foliar spray. All the fungicides were found effective against common rust. However, Trifloxystrobin 25% + Tebuconazole 50% @ 0.05% was found most effective (47.3%) followed by Propiconazole @ 0.1% (46.3%) and Tebuconazole @ 0.05% (45.3%) and also significant increase in yield was observed. Azoxystrobin @ 0.05% was found least effective among the fungicides tested.

Table 12. Survey and surveillance of maize diseases in Northern Karnataka

State : Karnataka

Centre : Dharwad

Season : Season: Rabi 2016-17

S.No.	District / Place	Area covered (ha)	No. of fields surveyed	Date of survey	Crop Stage	Variety / Hybrid	Charcoal stalk rot (%)
1	Dharawad	10	40	Feb-March	Dough stage	Hybrid	19.61
2	Kalaghatagi	12	15	Feb-March	Dough stage	Hybrid	11.86
3	Hanagal	16	12	Feb-March	Dough stage	Hybrid	28.33
4	Bagalkot	6	5	Feb-March	Dough stage	Hybrid	18.65
5	Sindhagi	5	8	Feb-March	Dough stage	Hybrid	15.31
6	Gokak	15	25	Feb-March	Dough stage	Hybrid	26.55
7	Arabhavi	8	14	Feb-March	Dough stage	Hybrid	23.20

Survey and surveillance of maize diseases in Tamil Nadu

Survey and surveillance: Survey was conducted in Annur, Anthiyur , Thudiyalur, Thondamuthur and Ottanchathiram areas of Tamil Nadu. Only few farmers were taken up sowing and no disease was recorded in those fields. Due to the failure of monsoon and severe drought, most of the farmers skipped this season.

Meteorological data for the cropping period Rabi 2016-17

S. No.	Station Name	Month	Max. Temp. (°C)	Min. Temp. (°C)	RH Max. (%)	RH Min. (%)	Rainfall (mm)	Rainy Days (Nos.)	Total Rainfall (mm)	Sunshine Hrs.	Wind Speed (Km/Hr.)
1	Dharwad	November	30.9	15.4	57.3	38.1	5.8	1	-	-	-
		December	30.0	14.0	57.0	36.4	0.0	0	-	-	-
		January	30.2	13.9	57.9	38.0	0.0	0	-	-	-
		February	33.5	16.3	49.0	20.0	0.0	0	-	-	-
		March	34.2	16.5	42.0	19.0	0.0	0	-	-	-
		April	37.7	21.1	79.0	21.0	12.6	2	-	-	-
		May	35.3	18.4	91.0	69.6	222.4	5.86	-	-	-
2	Coimbatore	December	29.9	20.3	88.0	55.0	45.0	-	-	-	4.1
		January	30.5	20.1	84.0	48.0	26.4	-	-	-	6.5
		February	32.4	19.6	80.0	38.0	0	-	-	-	7.2
		March	34.4	22.8	86.0	46.0	63.0	-	-	-	5.3
		April	36.4	24.4	86.0	44.0	20.5	-	-	-	5.2
		May	35.4	24.6	85.0	49.0	38.6	-	-	-	6.1
3	Dholi	December	22.0	11.1	99.8	84.8	-	-	-	-	-
		January	22.3	08.2	100	84.6	-	-	-	-	-
		February	26.1	10.1	95.8	87.0	-	-	-	-	-
		March	29.8	15.1	98.8	82.5	-	-	10.2	-	-
		April	34.1	20.9	94.7	66.0	-	-	51.4	-	-
		May	33.8	23.4	95.9	68.9	-	-	138.2	-	-
4	Mandya	November	31.9	15.8	89.0	42.8	-	-	4.4	8.80	-
		December	30.5	12.2	92.4	39.5	-	-	41.9	7.8	-
		January	31.3	13.9	90.5	46.2	-	-	6.5	8.4	-
		February	33.5	11.0	72.7	61.0	-	-	0	7.6	-
		March	35.2	18.5	84.7	36.3	-	-	8.4	7.9	-
		April	36.4	21.8	89.8	37.0	-	-	85.5	7.4	-

**Guidelines for Uniform Method of Disease Assessment in Maize
Under Artificially/ Sick Plot Created Epiphytotic**

The screening techniques and rating of the disease intensities for uniform assessment of maize diseases are given below:

1. Turcicum leaf blight (TLB) and maydis leaf blight (MLB)

Data can be recorded on 30-35 days after inoculation following rating scale of Balint-Kurti *et al.* (2006), Chung *et al.* (2010) and Mitiku *et al.* (2014) mentioned below:

Rating scale	Degree of infection (per cent DLA*)	PDI**	Disease reaction
1.0	Nil to very slight infection ($\leq 10\%$).	≤ 11.11	Resistant (R) (Score: ≤ 3.0) (PDI: ≤ 33.33)
2.0	Slight infection, a few lesions scattered on two lower leaves (10.1-20%).	22.22	
3.0	Light infection, moderate number of lesions scattered on four lower leaves (20.1-30%).	33.33	
4.0	Light infection, moderate number of lesions scattered on lower leaves, a few lesions scattered on middle leaves below the cob (30.1-40%).	44.44	Moderately resistant (MR) (Score: 3.1-5.0) (PDI: 33.34-55.55)
5.0	Moderate infection, abundant number of lesions scattered on lower leaves, moderate number of lesions scattered on middle leaves below the cob (40.1-50%).	55.55	
6.0	Heavy infection, abundant number of lesions scattered on lower leaves, moderate infection on middle leaves and a few lesions on two leaves above the cob (50.1-60%).	66.66	Mod. susceptible (MS) (Score: 5.1-7.0) (PDI: 55.56-77.77)
7.0	Heavy infection, abundant number of lesions scattered on lower and middle leaves and moderate number of lesions on two to four leaves above the cob (60.1-70%).	77.77	
8.0	Very heavy infection, lesions abundant scattered on lower and middle leaves and spreading up to the flag leaf (70.1-80%).	88.88	Susceptible (S) (Score: >7.0) (PDI: >77.77)
9.0	Very heavy infection, lesions abundant scattered on almost all the leaves, plant prematurely dried and killed ($>80\%$).	99.99	

***DLA- Diseased leaf area; **Percent disease index (PDI)**

2. Banded leaf and sheath blight (BLSB)

Disease is recorded after 30-35 days of inoculations on basis of following modified rating scale of Payak and Sharma (1983), and Muis and Quimio (2006).

Rating scale	Degree of infection (per cent DLA)	PDI	Disease reaction
1.0	Disease on one leaf sheath only; few small, non-coalescent lesions present ($\leq 10\%$).	≤ 11.11	Resistant (R) (Score: ≤ 3.0) (PDI: ≤ 33.33)
2.0	Disease on two sheaths; lesions large and coalescent (10.1-20%).	22.22	
3.0	Disease up to four sheaths; lesions many and always coalescent (20.1-30%).	33.33	
4.0	As in disease rating symptoms of 3.0, + rind discolored with small lesions (30.1-40%).	44.44	Moderately resistant (MR) (Score: 3.1-5.0) (PDI: 33.34-55.55)
5.0	Disease on all sheaths except two internodes below the ear (40.1-50%).	55.55	
6.0	Disease up to one internode below ear shoot; rind discoloration on many internodes with large depressed lesions (50.1-60%).	66.66	Moderately susceptible (MS) (Score: 5.1-7.0) (PDI: 55.56-77.77)
7.0	Disease up to the internodes bearing the ear shoot but shank not affected (60.1-70%).	77.77	
8.0	Disease on the ear; husk leaves show bleaching, bands and cracking among themselves as also silk fibers; abundant fungal growth between and on kernels; kernels formation normal except being lusterless; ear size less than normal; some plants prematurely dead (70.1-80%).	88.88	Susceptible (S) (Score: >7.0) (PDI: >77.77)
9.0	In addition to disease rating symptoms of 8.0, shrinkage of stalk; reduced ear dimension; wet rot and disorganization of ear; kernel formation absent or rudimentary; prematurely dead plants common; abundant sclerotia production on husk leaves, kernels ear tips and silk fibers ($>80\%$).	99.99	

3. Brown stripe downy mildew (BSDM)

Artificial epiphytotic conditions can be created by placing the powdered infected maize leaves containing spores collected during the last season containing oospores in furrows just before planting. This inoculum could also be prepared by collecting infected leaves supposed to be full of oospores from early plantings of maize of the same season, drying leaves and making powder out of the debris. Inoculum should be placed in furrows in such a manner that seeds were in proximity of inoculum.

Artificial epiphytotic condition could also be created by putting 2-3 cm pieces of freshly infected leaves containing sporangia of the fungus in the whorls of seedlings. This should be done during cloudy weather in the evening between 5 and 7 P.M. at 17, 24 and 30 days after planting. In experimental plots, where disease occurs year after year, only this method is adequate for creating epidemics. In areas of low disease incidence, both the methods of inoculation can be combined to obtain better results. Disease rating of individual maize varieties can be done by evaluation all plants of the row (s) using modified 1-9 rating scale of Payak and Sharma (1983) as described below:

Rating scale	Degree of infection (per cent DLA)	PDI	Disease reaction
1.0	Nil to very slight infection ($\leq 10\%$).	≤ 11.11	Resistant (R) (Score: ≤ 3.0) (PDI: ≤ 33.33)
2.0	Slight infection, a few stripes scattered on two lower leaves (10.1-20%).	22.22	
3.0	Light infection, moderate number of stripes scattered on four lower leaves (20.1-30%).	33.33	
4.0	Light infection, moderate number of stripes scattered on lower leaves, a few stripes scattered on middle leaves below the cob (30.1-40%).	44.44	Moderately resistant (MR) (Score: 3.1-5.0) (PDI: 33.34-55.55)
5.0	Moderate infection, abundant number of stripes scattered on lower leaves, moderate number of stripes scattered on middle leaves below the cob (40.1-50%).	55.55	
6.0	Heavy infection, abundant stripes on lower leaves, moderate infection on middle leaves and a few stripes on two leaves above the cob (50.1-60%).	66.66	Mod. susceptible (MS) (Score: 5.1-7.0) (PDI: 55.56-77.77)
7.0	Heavy infection, abundant stripes on lower and middle leaves and moderate number of stripes on two to four leaves above the cob (60.1-70%).	77.77	
8.0	Very heavy infection, stripes abundant on lower and middle leaves and spreading up to the flag leaf (70.1-80%).	88.88	Susceptible (S) (Score: >7.0) (PDI: >77.77)
9.0	Very heavy infection, stripes abundant all leaves. No cob formation. Plants may be killed prematurely ($>80\%$).	99.99	

4. *Curvularia* leaf spot (CLS)

Mass multiplication of culture is done on half cooked sorghum grains and after evaporating excess moisture from surface, the grains are filled in 500 ml conical flasks and plugged properly. These are autoclaved for two hours at 15 lbs pressure and inoculated when cooled down at room temperature with pure culture of *Curvularia lunata*. After completion of mycelial growth which may take 15-20 days at temperature around 25-27 degree C, these grains are washed in RO water to get conidial suspension of 5×10^4 conidia per ml. A bucket full of suspension is enough for spray inoculation of two 480 meter strip. The washed grains are spread in a tray to get again mass of conidia. After two days gap, one more spray inoculation is done as per previous method, but this time conidial suspension should be half of the previous one.

At least three observations are made and third observation at 80-85 DAS would be final based on leaf area covered by spots caused by pathogen. Observations are recorded using 1-9 rating scale (Hou *et al.*, 2013) as described below:

Rating scale	Degree of infection (percent DLA)	PDI	Disease reaction
1.0	≤10 % area of leaf infected	≤11.11	Resistant (R) (Score: ≤ 3.0) (PDI: ≤ 33.33)
2.0	10.1-20 % area of leaf infected	22.22	
3.0	20.1-30 % area of leaf infected	33.33	
4.0	30.1-40 % area of leaf infected	44.44	Moderately resistant (MR) (Score: 3.1–5.0) (PDI: 33.34-55.55)
5.0	40.1-50 % area of leaf infected	55.55	
6.0	50.1-60 % area of leaf infected	66.66	Moderately susceptible (MS) (Score: 5.1-7.0) (PDI: 55.56-77.77)
7.0	60.1-70 % area of leaf infected	77.77	
8.0	70.1-80 % area of leaf infected	88.88	Susceptible (S) (Score: >7.0) (PDI: >77.77)
9.0	>80% % area of leaf infected	99.99	

5. Common rust (*C. rust*) and Polysora rust (*P. rust*)

The rust is an obligate parasite and thus, it is very difficult to grow it on artificial media under laboratory condition. Though, for some specific purposes small amount of inoculum can be grown under laboratory condition on detached leaf culture. But, this meager amount of culture obtained by such method is not sufficient to be utilized for large scale screening trials under field conditions. Therefore, naturally infected leaves showing large number of uredopustules may be collected from different places so that all the prevalent races in the areas may be utilized for screening the materials against the prevalent rust fungus.

The infected leaves thus collected should be macerated thoroughly in between two palms of the hands dipped under a bucket of water until the water gets sufficiently coloured. The uredospores can also be collected on a butter paper by tapping the severely infected leaves with fingers and then stored in glass vial or glass tube which can be sealed easily under a flame. The uredospores, thus obtained may be kept for longer period in the freezer at lower temperature i.e. 5-7°C and can also be easily carried to some distant places for inoculation purposes.

For inoculating the plants in a field use of a knapsack sprayer is very useful. The spore suspension should be sprayed over the plants during the second half of the day when the sun becomes mild. While spraying inoculum, the nozzle of the sprayer should be kept over whorl of the plant and all the leaves may be sprayed thoroughly. The spore suspension must be stirred continuously during spraying as the light spores aggregate together on the upper surface of the water.

Repeating the inoculation two to three times gives a good result. In addition 2-4 lines of susceptible varieties grown as border rows around the screening plots also help to spread the disease. Disease rating is done as per scale devised by Lubberstedt *et al.* (1998) and Paterniani *et al.* (2000).

Rating scale	Degree of infection (per cent DLA)	PDI	Disease reaction
1.0	No uredia or hypersensitive flecks (<1%).	<11.11	Immune/HR (Score: <1.0) (PDI: < 11.11)
2.0	Very slight infection, one or two pustules on lower leaves only (1.0%).	22.22	Resistant (R) (Score: 1.1-2.0) (PDI: 11.12-22.22)
3.0	Very slight to slight infection, few scattered pustules on lower leaves only (1.1-10%).	33.33	Moderately resistant (MR) (Score: 2.1-4.0) (PDI: 22.23-44.44)
4.0	Light infection, few scattered pustules on lower leaves only (10.1-20.0%)	44.44	
5.0	Moderate infection, moderate number of pustules on lower leaves only (20.1-30%)	55.55	Moderately susceptible (MS) (Score: 4.1-6.0) (PDI: 44.45-66.66)
6.0	Moderate infection, abundant pustules on lower leaves; few on middle leaves (30.1-40%)	66.66	
7.0	Severe infection (40.1-60%)	77.77	Susceptible (S) (Score: >6.0) (PDI: >66.66)
8.0	Severe infection, abundant pustules on lower and middle leaves; extending to upper leaves (heavy infection) (60.1-80%)	88.88	
9.0	Severe infection, abundant pustules on all leaves, plant may dry prematurely or killed by the disease (very heavy infection) (>80%)	99.99	

6. Brown spot (BS)

For preparation of inoculum, the infected leaves (fresh or stored for 1-2 years) are taken and crushed into small pieces. These are put in water for thorough moistening and then blended in a blender in tap water. The resultant is filtered through muslin cloth. The filtrate is diluted to bring the concentration of sporangia up to 5000/ml of water. This inoculum is filled in small dropper bottles and the desired plants at susceptible stage (30±10 days) are inoculated by putting 2-3 drops of inoculum into the whorl. The disease appears after 10-20 days. Disease rating is done with modified scale of Payak and Sharma (1983).

Rating scale	Degree of infection (per cent DLA)	PDI	Disease reaction
1.0	Nil to very slight infection ($\leq 10\%$).	≤ 11.11	Resistant (R) (Score: ≤ 3.0) (PDI: ≤ 33.33)
2.0	Slight infection, a few lesions scattered on two lower leaves (10.1-20%).	22.22	
3.0	Light infection, moderate number of lesions scattered on four lower leaves (20.1-30%).	33.33	
4.0	Light infection, moderate number of lesions scattered on lower leaves, a few lesions scattered on middle leaves below the cob (30.1-40%).	44.44	Moderately resistant (MR) (Score: 3.1-5.0) (PDI: 33.34-55.55)
5.0	Moderate infection, abundant number of lesions scattered on lower leaves, moderate number of lesions scattered on middle leaves below the cob (40.1-50%).	55.55	
6.0	Heavy infection, abundant number of lesions scattered on lower leaves, moderate infection on middle leaves and a few lesions on two leaves above the cob (50.1-60%).	66.66	Moderately susceptible (MS) (Score: 5.1-7.0) (PDI: 55.56-77.77)
7.0	Heavy infection, abundant number of lesions scattered on lower and middle leaves and moderate number of lesions on two to four leaves above the cob (60.1-70%).	77.77	
8.0	Very heavy infection, lesions abundant scattered on lower and middle leaves and spreading up to the flag leaf (70.1-80%).	88.88	Susceptible (S) (Score: >7.0) (PDI: >77.77)
9.0	Very heavy infection, lesions abundant scattered on almost all the leaves, plant prematurely dried and killed ($>80\%$).	99.99	

7. Zonate leaf spot (ZLS)

The fungus is isolated from zonate leaf spot infected maize plants on Potato Dextrose Agar (PDA) and incubated at $28 \pm 1^\circ\text{C}$. The growing mycelium from the margin of distinct colonies is then sub-cultured on fresh petriplates containing (PDA) to obtain pure culture. Plants in the field are artificially inoculated by spraying the spore suspension of *Gloeocercospora sorghi* containing 5×10^4 spores/ml. The inoculum was sprayed between 6-7 pm as night temperature and humidity were conducive for infection. The observations on disease severity are recorded in 1-9 scale as followed in All India Coordinated Sorghum Improvement Project.

Rating scale	Degree of infection (per cent DLA)	PDI	Disease reaction
1.0	0 to $\leq 1\%$ leaf area covered/ no symptom	≤ 11.11	Resistant (R) (Score: ≤ 3.0) (PDI: ≤ 33.33)
2.0	1.1 to 5% leaf area covered	22.22	
3.0	5.1 to 10% leaf area covered	33.33	

4.0	10.1 to 20% leaf area covered	44.44	Moderately resistant (MR) (Score: 3.1-5.0) (PDI: 33.34-55.55)
5.0	20.1 to 30% leaf area covered	55.55	
6.0	30.1 to 40% leaf area covered	66.66	Moderately susceptible (MS) (Score: 5.1-7.0) (PDI: 55.56-77.77)
7.0	40.1 to 50% leaf area covered	77.77	
8.0	50.1 to 75% leaf area covered	88.88	Susceptible (S) (Score: >7.0) (PDI: >77.77)
9.0	>75% leaf area covered	99.99	

8. Ear and cob rots (ECR)

The ear and cob rots are caused by species of *Fusarium*, *Cephalosporium*, *Aspergillus*, *Diplodia*, *Botryodiplodia theobromae*. The pathogens are isolated and identified from infected kernels. Infected kernels are surface sterilized with in 50 ml of a 1:10 dilution of commercial sodium hypochloride and water (0.3 to 0.6% final concentrations) for 2 minutes, rinsed in sterile water and blot dried on sterile paper. Three seeds are placed at equidistance in a Petri dish containing potato dextrose agar (PDA). After three to four days of incubation, the growth of the fungus would be sufficient for obtaining pure cultures of the pathogens. Pure cultures of the suspected ear rot pathogen are prepared by transferring small sections (0.2 mm²) of the growing tip of the mycelium that show no mixture of different types of mycelium or bacterial growth. After 2-3 weeks when the fungus has covered the surface of the agar, one of the representative cultures should be observed in the microscope to ensure that the correct fungus was isolated based on morphological structures. The cultures at this time should be stored in a sealed plastic bag in the refrigerator (5-10°C) to maintain good quality cultures for preparing the inoculum.

For production of *Fusarium verticilloides* and *Aspergillus flavus* inocula for field inoculations, 10 to 20 ml of sterile distilled water is added to a Petri dish containing a pure culture of the fungus using sterile technique and the spores and mycelia are scraped from the agar using a small laboratory spatula and added to a jar containing 1 liter of sterile water. Protective rubber gloves should be used in the preparation of the inoculum since this fungus produces mycotoxins that are water soluble. The contents of the container are mixed and the solution is poured through two layers of gauze placed in a funnel to collect the concentrated spore solution. The spore concentration obtained from a one liter jar is in the order of 2x10⁵ spores/ml and this solution needs to be diluted with water to arrive at the concentration for field inoculations. The stock solution should be stored immediately in the refrigerator and can be used over a period of one week. A spore concentration of 2x10⁵ spores/ ml is prepared immediately before use (normally 5-10 ml of the stock solution added to one liter of water).

Inoculations for *Fusarium verticilloides* and *Aspergillus flavus* ear rots are done 7-10 days after pollination using a spore suspension with 2x10⁵ spores/ml. The period of 0-14 post-female flowering is the window where the ear is most susceptible to *Fusarium verticilloides* ear rot. For *Fusarium graminearum*, 1 ml of the spore suspension is injected in the silk channel using a repeater syringe used for vaccinating swine at 7-10 days after silking.

Rating scale	Degree of infection (per cent DLA)	PDI	Disease reaction
1.0	0% rot on the cob	0.0	Resistant (R) (Score: ≤ 3.0) (PDI: ≤ 33.33)
2.0	0.1–5% rot on the cob	22.22	
3.0	5.1–10% rot on the cob	33.33	
4.0	10.1–25% rot on the cob	44.44	Moderately resistant (MR) (Score: 3.1-5.0) (PDI: 33.34-55.55)
5.0	25.1–40% rot on the cob	55.55	
6.0	40.1–55% rot on the cob	66.66	Mod. susceptible (MS) (Score: 5.1-7.0) (PDI: 55.56-77.77)
7.0	55.1–70% rot on the cob	77.77	
8.0	70.1–85% rot on the cob	88.88	Susceptible (S) (Score: >7.0) (PDI: >77.77)
9.0	>85.1% rot on the cob	99.99	

9. Sorghum downy mildew (SDM)

A. Screening through direct inoculation with conidia:

- i. *Collection and maintenance of inoculum*: Sorghum plants showing systemic infection of downy mildew from the farmer's fields are collected during morning hours, preserved in polythene bags and brought to the laboratory. Conidiophores and conidia from the white bloom found on the lower surface of the leaves are washed with a fine jet of distilled water and conidial suspension is collected from the sorghum leaves. The seedlings of susceptible cultivar are spray inoculated at 2 leaf stage (6-7 days old) with the conidial suspension collected from the sorghum leaves. The inoculation of the seedlings is continued till the plants reached 15 days and systemic symptoms are seen. The inoculum from these plants is multiplied by spray inoculating to the fortnightly sowings of maize. The infected plants are maintained in the plot throughout the experimental period. Artificial inoculation technique developed by Lal and Singh (1984) is followed to induce the disease incidence by spraying conidial suspension between 2.30 a.m. and 4.00 a.m.
- ii. *Evaluation of maize genotypes under artificial inoculation*: Maize genotypes are evaluated against sorghum downy mildew by artificial inoculation. Artificial inoculation is done when the plants are at two leaves stage as described by Lal and Singh (1984). Diseased plants from which inoculum required to be drawn is sprayed with water at 6.00 PM so that leaves would have a thin film of water for good sporulation. By 2.00 AM, the inoculation crew assembles in the field with cleaned sprayers, torches and buckets. By 2.30 AM the diseased leaves with good sporulation are searched and washed in the water at the rate of 15 leaves per litre of water collected in the buckets. This operation is completed by 3.00 AM. Then the collected spore suspension in different buckets is thoroughly mixed and made upto 25 litres. The 25 litres of conidial inoculum is collected from 375 diseased leaves. The inoculation is completed by 4.00 AM with hand compression sprayer. Between 6.00 AM and at 6.00 PM water spray is given to the inoculated plot to create the required humidity artificially. With this method 100 percent disease incidence was created.

B. Spreader row technique: Spreader rows are sown 15-20 days prior to the sowing of the entries in 2.5 meter bands with a row spacing of 60 cm and plant to plant spacing of 30 cm. each band consisting of four rows surrounding on all the four directions. For this, highly susceptible variety is used. Inoculation of these spreader rows is done by following the above artificial inoculation procedure. Test entries were sown as mentioned above.

Per cent disease incidence is recorded 35 days after sowing and the entries are classified according to their disease reaction as described by Lal and Singh (1984).

Disease incidence (%)	Disease reaction
≤ 10	Resistant
10.1 – 25.0	Moderately resistant
25.1 – 50.0	Moderately susceptible
≥ 50.0	Susceptible

10. Rajasthan downy mildew (RDM)

Downy mildew nursery is required for artificial inoculation purposes. Susceptible maize cultivar is grown in cage house and the plants are inoculated at seedling stage by placing bits of downy mildew infected grasses *Heteropogon contortus* and *H. melanocarpus*. Humidity around 90% is maintained in the cage house. Chlorotic symptoms along with light green color extends up to upper green portion are typical symptoms. During midnight hours a layer of conidia can be seen. These plants serve as source of inoculum for artificial inoculation.

Since the pathogen is of nocturnal nature and produces conidia during 12:00 to 6 AM, hence the freshly harvested conidia are collected in distilled water or RO water. Before collecting conidia the leaves can be washed before an hour so as to get fresh viable conidia. For screening the test entries, susceptible entries should be planted before 15 days and should be inoculated first. Since this pathogen does not form oospores on maize, hence sick plot technique does not work. The conidial suspension of harvested conidia is filled in dropping bottle to put drops of inoculum at seedling stage (6-7 days old) in the whorl (a cup like structure of upper leaf) during 3-5 AM. This should be done for 4-5 days regularly to avoid any escape. After 15-20 days symptoms become visible.

The observation is recorded as percent infected plants in a row out of total plants. At least three observations are taken at 30, 50 and 80 DAS. The last observation is considered as final, but number of plants is considered as of first observation. This is because some plants die and disappear due to infection. The entries are classified according to their disease reaction as described by Lal and Singh (1984) for SDM.

8. Pre-flowering stalk rot (Bacterial stalk rot)

A virulent isolate of *Dickeya zeae* corn pathotype should be selected for inoculation. To maintain the virulence of the bacterium, it should be inoculated on healthy plants and then reisolated every year before mass inoculation. In order to isolate a virulent strain, the inoculated plants showing characteristic symptoms of the disease are selected. A small piece of rotten internode is immediately dipped into mercuric chloride solution (1:1000) for 5 seconds and passed through three changes of sterile water. The piece is then cut into two halves with sterilized blade, put into little sterile

water and then teased apart with sterile needle. The small quantities of resulting suspension are then removed with a flamed wireloop and streaked out on well dried nutrient agar plates, the aim being to separate the cells so that they produce individual colonies. The characteristic colonies are identified after 2 days of incubation at 30°C and used for subculturing. The culture is used for testing the pathogenicity. The cultures which induce the typical symptoms of the disease within 48 hours of inoculation are used for mass inoculation. The inoculum is increased for mass inoculation on nutrient broth for 48 hours at 30°C. The inoculum was diluted 10 times with sterile water to maintain a concentration of approximate $1 \times 10^{7-9}$ bacteria/ml.

The inoculation may be carried out when the crop is at the pre-silking stage or until flowering has reached 75%. To inoculate the plants a diagonal hole is made in the middle of second internode from the ground to the pith. One milliliter of bacterial suspension is injected into the plant through the hole by a hypodermic syringe. If necessary, a second inoculation may be done one week later in the third internode from the ground. Percent disease incidence is recorded 15 days after sowing and the entries are classified as described by Lal and Singh (1984) for SDM.

9. Post-flowering stalk rots (Charcoal rot, Fusarium stalk rot and late wilt)

Screening for resistance against these diseases can be easily done in sick plots. However, artificial inoculation is necessary where such plots are not available. For this purpose the fungal material should be isolated from the infected stalks, cultured and multiplied in the laboratory as described below.

Small bits cut from the infected stalks should be surface sterilized with 0.1 per cent mercuric chloride solution for one minute followed by washing in sterile distilled water. Finally a single bit is to be aseptically transferred to sterilized potato dextrose agar days at $26 \pm 2^\circ\text{C}$ for getting the fungal hyphae to come out from the infected bits. Finally, the fungal hyphae is to be aseptically transferred to culture tubes containing the sterile PDA medium and to be incubated for about 10 days to get the stock culture of the pathogen to be used for increase of the inoculum in the laboratory for field inoculation.

Among various methods of field inoculation, the toothpick inoculation is followed for these diseases under the coordinated programmes. Round bamboo toothpicks about 6.5 cm long are boiled three times (about 1 hour each time) in tap water to remove toxic substances. After each boiling these are thoroughly washed in fresh water and dried in the sun. When these are thoroughly dry, they are loosely packed in bundles and put into the glass jars/ bottles and enough potato dextrose broth (one- third length of toothpicks) is added to thoroughly moisten the toothpicks plus some quantity in the bottom of the jars. The jars with the toothpicks are autoclaved immediately after the broth is added. Later the sterilized toothpicks are inoculated with the culture of the pathogen aseptically. The growth of the fungus covers the toothpicks and inoculum is ready for use in about 10 days.

Inoculations should be made just after flowering stage of plants. For inoculating plants, the lower internode (second/third) above soil level is opened with a jabber and the toothpick is inserted into the hole. The jabber is made by driving a nail of the diameter of the toothpick into a wooden handle. The head of the nail is ground off to a point and to the desired length (2cm). The round toothpicks effectively seal the hole in the stalk and prevent drying. The measurement is based on the

proportion of disease present in the inoculated internodes and its subsequent spread. For scoring disease severity of PFSR, 1-9 rating scale of All India Coordinated Maize Improvement Project (1983) is followed:

Rating scale	Disease severity (%)	PDI	Disease reaction
1.0	Healthy or trace/slight discolouration at the site of inoculation.	11.11	Resistant (Score: ≤ 3.0) (PDI: ≤ 33.33)
2.0	Up to 50% of the inoculated internode is discoloured	22.22	
3.0	51-75% of the inoculated internode is discoloured	33.33	
4.0	76-100% of the inoculated internode is discoloured	44.44	Moderately resistant (Score: 3.1- 5.0) (PDI: 33.34-55.55)
5.0	Less than 50% discolouration of the adjacent internode	55.55	
6.0	More than 50% discolouration of the adjacent internode	66.66	Moderately susceptible (Score: 5.1-7.0) (PDI: 55.56-77.77)
7.0	Discolouration of three internodes	77.77	
8.0	Discolouration of four internodes	88.88	Susceptible (Score: ≥ 7.0) (PDI: ≥ 77.77)
9.0	Discolouration of five or more internodes and premature death of plant	99.99	

10. Maize cyst nematode (*Heterodera zae*)

Plant parasitic nematodes are responsible to causes 10.2% losses o maize. Though, large number of plant parasitic nematodes attacks on maize but maize cyst nematode (*Heterodera zae*) is considered as most important and therefore, screening trials are carried out under artificially inoculated conditions in permanent plots to find out source of resistance against maize cyst nematode (*Heterodera zae*). The observations on nematode infestation are recorded after 45 days of germination. The varieties/hybrids/ lines are categorized on the basis of cyst/plant as mentioned below:

S. No.	Number of cyst/plant	Category
1	0 - 4 cyst/plant	Resistant
2	Above 4 - 9 cyst/plant	Moderately Resistant
3	Above 9 cyst/plant	Susceptible

*Calculation of Percent Disease Index (PDI) of Foliar Diseases of Maize

Percent disease index (PDI) is calculated using the following formula of Mckinney (1923).

$$\text{Percent disease index (PDI)} = \frac{\text{Sum of individual rating}}{\text{No. of leaves examined}} \times \frac{100}{\text{Maximum disease rating}}$$

On the basis of PDI, the inbred lines/ varieties/ hybrids can be classified as resistant (R), moderately resistant (MR), moderately susceptible (MS) and susceptible (S). The test inbred lines/ varieties/ hybrids with resistant reaction are considered acceptable for a breeding programme whereas test inbred lines/ varieties/ hybrids with moderately resistant are acceptable when lines with resistant reaction are not available.

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ENTOMOLOGY

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Summary

- Maize Entomology AICRP *rabi* 2016-17 experimental trials aims mainly at screening and management of pink stem borer *Sesamia inferens*, spotted stem borer *Chilo partellus* and shoot fly *Atherigona* sp. Respectively. Post-screening, the genotypes are categorized as resistant, moderately resistant and susceptible based on Leaf Injury Rating (LIR). Out of 16 maize entries of late maturity group screened under artificial infestation against *C. partellus* at Kolhapur, four entries, KMH 3981 (2.7), DKC9175(IP8514)9 (3.0), NMH 1290 (2.6) and Buland (2.9) were found to be resistant while in medium maturity group, BLH 101 (2.7) DMH 117(2.6), BIO 9544 (3.0), MMH QPM-6-12-13 (2.9) were found to be resistant. The same medium maturity entries when screened against *S. inferens* at Hyderabad, none of the entries were found to resistant. At Karnal, entries HT 15066 (2.3), BLH 101 (2.61) HT 1412081 417 (2.49), BLH 102 (2.39), IMR HQPM 1 (2.02) were found to be resistant against *S. inferens*. Under the late maturity group also at Hyderabad centre, none of the entries showed resistance towards *S. inferens*. The entries 115-08-01 (2.73), NMH 1290 (2.59), BIO 9981 (2.78) and P 3522 (2.43) were found to be resistant to *S. inferens* at Karnal centre.
- The first year screening of 38 inbred lines against *C. partellus* at Kolhapur resulted in identifying sixteen entries having LIR less than 3.0. The same inbred lines when screened against *S. inferens* at Hyderabad centre, none of the lines recorded LIR less than 3.0, while at Karnal centre, eleven entries were found to be resistant.
- Chlorantraniliprole 20 SC, Flubendiamide 480 SC, Novaluron 10EC, Deltamethrin 2.8 EC along with state recommended insecticide were evaluated at Hyderabad centre against *Sesamia inferens* Walker. Chlorantraniliprole 20 SC @0.4ml/l was found to be most effective based on leaf injury rating observed at 25 days after infestation while Flubendiamide 480 SC @ 0.2ml/l resulted in maximum yield return as compared to control.
- Out of 49 maize inbred lines screened under natural infestation against shoot fly at Karnal centre, none of the entries showed dead hearts less than 10%. At Delhi centre, the following five entries, WNCDMR11R5881 (0.0), G18QC8-36 (0.0), P63C2BBB17B (0.0), PFSR/51016-1 (0.0), SO1SIYQBBB13B (0.0) had no dead heart formation.
- Out of 40 maize inbred lines screened under natural infestation against *Atherigona naqvii* at Ludhiana centre for the first year, five lines CM 13,(1.16), CML-50 (1.49), HEY Pool -2011-15-1-3-2-1-1 (1.28), HEY Pool -2011-30-4-1-2-2-1 (1.19), HEY POOL-2011-12-5SC-3-1-1 (1.30)

were found to be resistant. Of the same set of 40 lines evaluated against shoot fly, *A. soccata* at Delhi during spring 2017 only CM 13 and CML 43 had no dead heart formation.

AICRP Centre: Kolhapur

ET 6 :	:	Evaluation of Maize AICRP trials against <i>C. partellus</i> under artificial infestation
Experimental details	:	AICRP, Maize, Kolhapur, RBD, 2/40, 4 x 0.75 m, 120:60:40

3. Date of sowing, germination & release of pest

Trial No.	Trial Name	No. of entries / Repl.	Date of sowing	Date of germination	Date of infestation	Date of Observations
13	AVT –I-II (Late)	18/2	21/12/2016	29/12/2016	12/01/2017	12/02/2017
14	AVT –I-II (Medium-QPM)	22/2	21/12/2016	29/12/2016	10/01/2017	10/02/2017

Trial No. 13- AVT-I-II (Late)

E. No.	IIMR Code	Entry name	Mean LIR	Category of Infestation
AVT I LATE				
1	IMR385	KMH-3981	2.7	Resistant
2	IMR386	DKC9177 (IP8572)	3.9	Moderately Resistant
3	IMR387	DKC9170 (IQ8579)	4.3	Moderately Resistant
4	IMR388	PM15202L	5.1	Moderately Resistant
5	IMR389	DKC9175(IP8514)	3.0	Resistant
6	IMR390	MM 2222	4.7	Moderately Resistant
7	IMR391	115-08-01	4.9	Moderately Resistant
8	IMR392	CP.808	3.7	Moderately Resistant
AVT-II-LATE				
9	IMR393	DKC 9165(IM8119)	5.7	Moderately Resistant
10	IMR394	PM14205L	4.4	Moderately Resistant
11	IMR395	NMH 1290	2.6	Resistant
12	IMR396	Rasi 394	3.7	Moderately Resistant
13	IMR397	Seedtech 2324 (C)	5.3	Moderately Resistant

14	IMR398	Buland (C)	2.9	Resistant
15	IMR399	Bio 9981(C)	4.1	Moderately Resistant
16	IMR400	P3522 (C)	3.4	Moderately Resistant
17	R-Check	CM 500	3.4	Moderately Resistant
18	S-Check	CM 202	5.5	Moderately Resistant

Trial No. 14- AVT –I-II (Medium maturity – Normal and QPM)

E. No.	IIMR Code	Entry Name	Mean LIR	Category of Infestation
AVT-I-MEDIUM				
1	IMR411	DKC8171(IP8204)	4.2	Moderately Resistant
2	IMR412	BLH 109	4.7	Moderately Resistant
3	IMR413	HT 15066	4.7	Moderately Resistant
AVT-II MEDIUM				
4	IMR414	CP.222	4.7	Moderately Resistant
5	IMR415	BLH 101	2.7	Resistant
6	IMR416	PM142096M	4.3	Moderately Resistant
7	IMR417	HT 1412081	3.4	Moderately Resistant
8	IMR418	*Filler (against BH 412066)	4.9	Moderately Resistant
9	IMR419	BLH 102	4.2	Moderately Resistant
10	IMR420	HM 10 (C)	3.2	Moderately Resistant
11	IMR421	DHM 117 (C)	2.6	Resistant
12	IMR422	Bio 9544(C)	3.0	Resistant
13	IMR423	Bio 9637(C)	4.0	Moderately Resistant
QPM-I-II				
14	IMR424	IHQPM-0906	4.2	Moderately Resistant
15	IMR425	MMHQPM-6-12- 13	2.9	Resistant

16	IMR426	VEHQ-15-1	5.5	Moderately Resistant
17	IMR427	MMHQPM-10-11-15	4.5	Moderately Resistant
18	IMR428	HQPM 1(C)	4.9	Moderately Resistant
19	IMR429	HQPM 5 (C)	5.4	Moderately Resistant
20	IMR430	HQPM 7 (C)	3.5	Moderately Resistant
21	R-Check	CM 500	2.6	Resistant
22	S-Check	CM 202	7.9	Susceptible

ET 7	:	Evaluation of maize inbred lines against stem borer, <i>C. partellus</i> under artificial infestation.
Experimental details	:	AICRP, Maize, Kolhapur, RBD, 2/38, 4 x 0.75 m, 120:60:40

Date of sowing, germination & release of the pest

Trial Name	No. of entries / Repl.	Date of sowing	Date of germination	Date of infestation	Date of Observations
Inbred lines	38/2	23/02/2017	28/02/2017	12/03/2017	12/04/2017

Sr. No.	Pedigree	Mean LIR	Category of Infestation
1	AEB(Y)C534-1	2.0	Resistant
2	AEB(Y)C534-2	2.9	Resistant
3	AEB(Y)C534-3	2.3	Resistant
4	AEB(Y)C534-4	1.8	Resistant
5	AEB(Y)C538-1	4.3	Moderately Resistant
6	BCK/BC4	3.9	Moderately Resistant
7	CM 500	2.3	Resistant
8	DMR E 63	2.7	Resistant
9	DMR N1	5.1	Moderately Resistant
10	DMR N3	Not germinated	
11	EC440612	4.6	Moderately Resistant
12	EC598465	6.6	Susceptible
13	IIMR PBT POOL	2.5	Resistant
14	IIMR PBT SYNTHETIC	5.9	Moderately Resistant
15	IIMR SBT POOL	3.3	Moderately Resistant

16	WNC11R MPCZ 10 AA	1.9	Resistant
17	WNC11R MPCZ 5 AA	2.0	Resistant
18	WNCDMR11R 3120	2.5	Resistant
19	WNCDMR11R 1611	7.3	Susceptible
20	WNCDMR11R 4542	5.6	Moderately Resistant
21	WNCDMR11R 4585	2.4	Resistant
22	WNCDMR11R 4586	3.5	Moderately Resistant
23	WNCDMR11R 4787	2.1	Resistant
24	WNCDMR11R 5897	7.5	Susceptible
25	WNCDMR19RYDWS 1578	Not germinated	
26	WNCDMR19RYDWS 1941	2.2	Resistant
27	WNCDMR19RYDWS 2002	3.4	Moderately Resistant
28	WNCDMR19RYDWS1199A	7.4	Susceptible
29	WNCDMR19RYDWS2066	3.8	Moderately Resistant
30	WNCDMR19RYWS 1819	3.8	Moderately Resistant
31	WNCDMR11R5877	Not germinated	
32	WNCDMR11R5880	7.1	Susceptible
33	WNCDMR11R5881	3.1	Moderately Resistant
34	WNCDMR11R5888	2.5	Resistant
35	WNCDMR11R5895	6.0	Moderately Resistant
36	CM 300	6.1	Susceptible
37	WNZPBTL 8	2.3	Resistant
38	Basilocal selection	2.2	Resistant

AICRP Centre: Hyderabad:

**ET6 : Evaluation of Maize AICRP trials against *S.inferens* under artificial infestation
(AVT I & AVT II) HYDERABAD**

Trial 11: Medium Maturity

S.No.	Entry	Entry Name	Mean LIR on 1-9 scale			Category of Infestation
			Hyderabad	Karnal	Mean	
AVT-I-MEDIUM						
1	IMR 411	DKC8171(IP8204)	7.5	3.62	5.56	MR
2	IMR 412	BLH 109	7.7	3.28	5.49	MR
3	IMR 413	HT 15066	7.5	2.44	4.97	MR
AVT-II MEDIUM						
4	IMR 414	CP.222	7.9	6.83	7.37	S
5	IMR 415	BLH 101	6.8	2.61	4.71	MR
6	IMR 416	PM142096M	6.4	5.06	5.73	S
7	IMR 417	HT 1412081	7.2	2.49	4.85	MR
8	IMR 418	*Filler (against BH 412066)	6.4	3.53	4.97	
9	IMR 419	BLH 102	6.1	2.39	4.25	
10	IMR 420	HM 10 (C)	6.6	6.51	6.56	S
11	IMR 421	DHM 117 (C)	7.1	3.38	5.24	MR
12	IMR 422	Bio 9544(C)	6.6	3.62	5.11	MR
13	IMR 423	Bio 9637(C)	7.3	4.53	5.92	S
QPM-I-II						
14	IMR 424	IHQPM-0906	6.0	6.25	6.13	S
15	IMR 425	MMHQPM-6-12-13	7.6	3.59	5.60	MR
16	IMR 426	VEHQ-15-1	6.8	4.95	5.88	MR
17	IMR 427	MMHQPM-10-11-15	7.2	3.16	5.18	MR

18	IMR 428	HQPM 1(C)	6.6	2.02	4.31	MR
19	IMR 429	HQPM 5 (C)	8.0	3.30	5.65	MR
20	IMR 430	HQPM 7 (C)	7.3	3.14	5.22	MR
21	RCcheck	CM 500	5.4	2.93	4.17	MR
22	S Check	CM 202	-	6.07	6.07	S

Trial 11: Late Maturity

S.No.	DMR Code	Entry Name	Mean LIR on 1-9 scale			Category of Infestation
			Hyderabad	Karnal	Mean	
AVT I LATE						
1	IMR 385	KMH-3981	5.0	6.75	5.88	S
2	IMR 386	DKC9177 (IP8572)	4.8	5.04	4.92	MR
3	IMR 387	DKC9170 (IQ8579)	4.5	3.35	3.93	MR
4	IMR 388	PM15202L	4.1	3.86	3.98	MR
5	IMR 389	DKC9175(IP8514)	4.2	3.39	3.80	MR
6	IMR 390	MM 2222	7.2	3.58	5.39	MR
7	IMR 391	115-08-01	5.3	2.73	4.02	MR
8	IMR 392	CP.808	5.9	6.73	6.32	S
AVT-II-LATE						
9	IMR 393	DKC 9165(IM8119)	6.0	4.75	5.38	MR
10	IMR 394	PM14205L	5.6	3.47	4.54	MR
11	IMR 395	NMH 1290	5.3	2.59	3.95	MR
12	IMR 396	Rasi 394	4.9	4.41	4.66	MR
13	IMR 397	Seedtech 2324 (C)	5.1	4.07	4.60	MR
14	IMR 398	Buland(C)	5.0	4.96	4.98	MR
15	IMR 399	Bio 9981(C)	4.3	2.78	3.54	MR
16	IMR 400	P3522 (C)	5.9	2.43	4.18	MR
17	R Check	CM 500	3.9	2.84	3.37	MR

18	S Check	CM 202	5.5	6.15	5.84	S
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ET 7: Evaluation of maize inbred lines against *S. inferens* under artificial infestation during Rabi, 2016-17 (Hyderabad and Karnal)

S. No.	DMR Code	Pedigree	Mean LIR on 1-9 scale			Category of Infestation
			Hyderabad	Karnal	Mean	
1	LET 1	AEB(Y)C534-1	7.95	2.33	5.14	MR
2	LET 2	AEB(Y)C534-2	7.35	6.46	6.91	S
3	LET 3	AEB(Y)C534-3	7.50	2.50	5.00	MR
4	LET 4	AEB(Y)C534-4	7.60	4.60	6.10	S
5	LET 5	AEB(Y)C538-1	8.10	4.11	6.13	S
6	LET 6	BCK/BC4	6.90	3.27	5.10	MR
7	LET 7	CM500	5.65	3.06	4.37	MR
8	LET 8	E 63	5.55	4.63	5.09	MR
9	LET 9	DMR N1	5.55	2.67	4.11	MR
10	LET 10	DMR N3	-	3.94	3.94	MR
11	LET 11	EC 440612	7.30	4.64	5.97	MR
12	LET 12	EC598465	6.70	6.04	6.37	S
13	LET 13	IIMR PBT POOL	6.45	2.55	4.50	MR
14	LET 14	IIMR PBT SYNTHETIC	7.65	2.84	5.25	MR
15	LET 15	IIMR SBT POOL	5.50	4.00	4.75	MR
16	LET 16	WNC 11R MPCZ 10AA	6.15	3.79	4.97	MR
17	LET 17	WNC 11R MPCZ 5AA	5.75	2.38	4.07	MR
18	LET 18	WNC DMR 11R 3120	4.90	6.47	5.69	MR
19	LET 19	WNC DMR 11R 1611	7.85	2.64	5.25	MR
20	LET 20	WNC DMR 11R 4542	8.40	6.84	7.62	S
21	LET 21	WNC DMR 11 R 4585	7.45	6.29	6.87	S

22	LET 22	WNCDMR 11 R 4586	7.05	2.63	4.84	MR
23	LET 23	WNCDMR 11 R 4787	7.30	4.70	6.00	S
24	LET 24	WNCDMR 11R 5897	7.40	2.80	5.10	MR
25	LET 25	WNCDMR 19RYDWS 1578	8.50	6.36	7.43	S
26	LET 26	WNCDMR19RYDWS 1941	6.00	-	6.00	S
27	LET 27	WNCDMR19RYDWS 2002	5.85	2.94	4.40	MR
28	LET 28	WNCDMR 19RYDWS 119A	7.70	4.39	6.05	S
29	LET 29	WNCDMR19RYDWS2066	6.15	4.04	5.10	MR
30	LET 30	WNCDMR19RYWS1819	7.25	4.90	6.08	S
31	LET 31	WNCDMR11R5877	-	5.16	5.16	MR
32	LET 32	WNCDMR 11R5880	6.80	6.08	6.44	S
33	LET 33	WNCDMR 11 R 5881	6.70	4.25	5.48	MR
34	LET 34	WNCDMR 11R5888	6.30	4.56	5.43	MR
35	LET 35	WNCDMR11R5895	6.10	2.54	4.32	MR
36	LET 36	CM 300	8.30	6.15	7.23	S
37	LET 37	WNZPBTL 8	6.70	4.06	5.38	MR
38	LET 38	Basilocal	8.9	4.61	6.76	S

ET 8: Evaluation of insecticides against Stem borer, *S. inferens* during Rabi 2016-17 in maize at Hyderabad

Variety/hybrid: DHM 117, Date of Sowing: 07.11.16, Date of Infestation: 02.12.16
Sprayed insecticides two days after infestation and recorded LIR at 30 days after infestation

Effect of insecticides on Leaf Injury rating and Grain Yield (Hyderabad)

S.No.	Insecticide	Dose	LIR Mean	Mean Grain yield/plot (kg) (3 x 3 m)
1	Chlorantriliprole 20 SC	0.3 ml/l	3.39	3.40
2	Chlorantriliprole 20 SC	0.4 ml/l	2.61	3.43
3	Flubendiamide 480 SC	0.1 ml/l	2.43	3.57
4	Flubendiamide 480 SC	0.2 ml/l	2.33	3.63
5	Novaluron 10EC	0.75 ml/l	3.85	3.23
6	Novaluron 10EC	1 ml/l	3.58	3.30
7	Deltamethrin 2.8 EC	0.4 ml/l	2.99	2.93
8	Deltamethrin 2.8 EC	0.8 ml/l	2.77	3.03
9	Monocrotophos 36 EC	1.6 ml/l	4.05	2.47
10	Control	Water spray	6.64	2.03
	CD at 5%	-	0.68	0.65

Spring 2017:

ET 9: Evaluation of maize inbred lines against sorghum shoot fly under natural infestation during spring 2017 (Karnal and Delhi) (2nd year)

Sl. No	Pedigree No.	Mean % dead heart formation at 21 DAG		
		Karnal	Delhi	Mean
1	WNCDMR11R5881	28.96	0	14.48
2	WNCDMR11R5895	41.43	10	25.72
3	WNCDMR11R4787	64.51	53.57	59.04
4	BPT10	36.67	5	20.84
5	BPT5	25.17	13.64	19.41
6	WNCDMR19RYWS1819	40.18	33.33	36.76
7	AEB(Y)C534-1-5	51.92	12.5	32.21
8	EC440612	88.75	41.67	65.21
9	ACCNO.584542	43.56	20.20	31.88
10	ACCNO.584585	73.89	22.22	48.06
11	AEB(Y)C534-1-7	35.42	17.80	26.61
12	IIMR PBT POOL	55.77	10	32.89
13	WNZPBTL 8	73.08	35	54.04
14	97P65BBB26B	33.18	4.55	18.87
15	AEB(Y)C534-1	57.01	5	31.02
16	BML14	36.67	18.75	27.71
17	DMR N6	76.04	35	55.52
18	CLQRCWQ02B6	54.17	12.69	33.43
19	CLQRCYQ42	57.27	28.64	42.96
20	CM117-3-4-1	52.27	18.75	35.51
21	CM118	36.88	4.17	20.53
22	CM142	42.17	15	28.59
23	CM501	37.86	7.14	22.5

Sl. No	Pedigree No.	Mean % dead heart formation at 21 DAG		
		Karnal	Delhi	Mean
24	CML162	35.90	12.5	24.2
25	CML292	53.57	20	36.79
26	CML298	77.84	23.64	50.74
27	CML312	48.33	8.33	28.33
28	CML336	55.77	10	32.90
29	CML338	44.10	5.56	24.83
30	CML420	46.43	11.11	28.77
31	CML485BBB	58.81	5	31.91
32	CM500	40.91	30.56	35.74
33	CML50	39.74	46.70	43.22
34	CML55BB	47.22	7.14	27.18
35	CML73	53.13	25	39.08
36	EC4400414	49.39	19.89	34.64
37	EC598464	14.64	8.57	11.61
38	EC672591	70.05	41.11	55.58
39	G18QC8-36	72.12	0	36.06
40	HKI287	58.04	14.58	36.31
41	HKI326-3	11.69	7.69	9.69
42	DMR N7	77.86	22.73	50.30
43	P63C2BBB17B	18.68	0	9.34
44	PFSR/51016-1	15.88	0	7.94
45	SO1SIYQBBB13B	16.25	0	8.14
46	HKI170(1+2)	81.94	22.53	52.24
47	DMSC28	71.04	20	45.52
48	HKIPCBT3	58.55	9.55	34.05
49	AEBY(1)	64.88	4.55	31.02

ET 10: Evaluation of inbred lines against Maize shoot fly, *Atherigona naqvii* under natural infestation using fish meal technique Ludhiana during spring 2017 (1st Year)

S. No	Pedigree	Mean Leaf Injury (%) 21 days after germination (DAG)	Mean Dead hearts (%) 21 days after germination (DAG)	Mean Susceptible index (SI)	Reaction based on SI
1	CM 140⊗⊗	22.32	43.75	2.07	MR
2	CM-137⊗⊗	15.56	37.22	1.82	MR
3	CM-13⊗⊗	30.00	18.33	1.16	R
4	CM-212⊗⊗	40.38	36.22	1.60	MR
5	CML 292⊗⊗	16.11	41.67	1.74	MR
6	CML 9⊗⊗	36.54	34.13	1.58	MR
7	CML-224⊗⊗	10.80	38.64	1.94	MR
8	CML-238⊗⊗	15.00	65.00	2.06	MR
9	CML-306⊗⊗	27.50	37.50	1.65	MR
10	CML-342⊗⊗	23.72	44.55	2.45	S
11	CML-425⊗⊗	23.30	38.64	1.68	MR
12	CML-43⊗⊗	16.78	29.72	1.76	MR
13	CML-482⊗⊗	40.38	31.54	1.50	MR
14	CML-50⊗⊗	28.21	28.21	1.49	R
15	CML-73⊗⊗	33.44	43.18	1.81	MR
16	HEY Pool -2011-12-1-1-3-3-1⊗⊗	21.97	56.82	2.41	S
17	HEY Pool -2011-12-3-3-3-1-1⊗⊗	21.33	54.20	2.23	S
18	HEY Pool -2011-15-1-3-2-1-1⊗⊗	25.82	22.25	1.28	R
19	HEY Pool -2011-15-3-7-3-1-1⊗⊗	33.57	41.26	2.00	MR
20	HEY Pool -2011-19-1-1-1-1-1⊗⊗	23.64	42.73	2.00	MR

21	HEY Pool -2011-21-2-3-3-1-1⊗⊗	25.82	51.92	1.98	MR
22	HEY Pool -2011-25-6-1-3-1-1⊗⊗	24.04	36.22	2.00	MR
23	HEY Pool -2011-30-4-1-2-2-1⊗⊗	22.25	18.41	1.19	R
24	HEY Pool -2011-37-2-1-3-1-1⊗⊗	45.83	38.10	1.70	MR
25	HEY Pool -2011-5-4-1-1-2-1⊗⊗	26.10	32.97	1.61	MR
26	HEY Pool -2011-5-6-1-2-1⊗⊗	17.42	47.35	2.26	S
27	HEY POOL-2011-12-5SC-3-1-1⊗⊗	24.52	20.71	1.30	R
28	HEY Pool-2011-5-2-3-2-1-1⊗⊗	29.23	39.23	1.77	MR
29	IC-639445⊗⊗	17.21	45.13	2.20	S
30	IC-656142⊗⊗	28.57	32.14	1.64	MR
31	NAI-147⊗⊗	21.98	40.66	1.91	MR
32	NAI-175⊗⊗	32.05	32.05	1.59	MR
33	PFSR-10109⊗⊗	23.72	52.24	2.14	MR
34	PFSR-10116⊗⊗	42.86	39.29	1.66	MR
35	V 341⊗⊗	23.40	39.74	2.79	S
36	VH 9-1-2-1-1⊗⊗	21.59	48.11	2.32	S
37	VH 9-2-1-1-1⊗⊗	35.90	43.91	1.99	MR
38	VH 9-3-2-1⊗⊗	29.72	38.11	1.80	MR
39	VQPM9-1-2-1⊗⊗	28.57	32.14	1.62	MR
40	VQPM9-2-1-3-1⊗⊗	25.00	35.71	1.73	MR
		NS	19.13	Mean susceptibility Index Standard deviation Range	1.84 0.35 1.49-2.19
				Resistant Moderately resistant Susceptible	< 1.50 1.50-2.18 >2.18

ET 10.Evaluation of inbred lines against Maize shoot fly, <i>Atherigona soccata</i> under natural infestation using fish meal technique at Delhi during spring 2017 (1st Year).		
S.No	PEDIGREE	Mean percent dead hearts
1	CM 140	33.75
2	CM-137	32.83
3	CM-13	0
4	CM-212	14.29
5	CML 292	16.67
6	CML 9	16.67
7	CML-224	20.83
8	CML-238	25
9	CML-306	16.67
10	CML-342	80
11	CML-425	50
12	CML-43	0
13	CML-482	22.22
14	CML-50	23.75
15	CML-73	33.93
16	HEY Pool -2011-12-1-1-3-3-1	53.57
17	HEY Pool -2011-12-3-3-3-1-1	56.25
18	HEY Pool -2011-15-1-3-2-1-1	14.09
19	HEY Pool -2011-15-3-7-3-1-1	29.29
20	HEY Pool -2011-19-1-1-1-1-1	30
21	HEY Pool -2011-21-2-3-3-1-1	37.78
22	HEY Pool -2011-25-6-1-3-1-1	46.43
23	HEY Pool -2011-30-4-1-2-2-1	11.11
24	HEY Pool -2011-37-2-1-3-1-1	14.58
25	HEY Pool -2011-5-4-1-1-2-1	16.96
26	HEY Pool -2011-5-6-1-2-1	17.86
27	HEY POOL-2011-12-5SC-3-1-1	3.85
28	HEY Pool-2011-5-2-3-2-1-1	13.89
29	IC-639445	27.69
30	IC-656142	25.17
31	NAI-147	4.55
32	NAI-175	9.09
33	PFSR-10109	24.17
34	PFSR-10116	9.09
35	V 341	30.95
36	VH 9-1-2-1-1	24.23
37	VH 9-2-1-1-1	8.33
38	VH 9-3-2-1-1	32.73
39	VQPM9-1-2-1-1	23.57
40	VQPM9-2-1-3-1-1	12.14



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