Annual Progress Report

Rabi Maize

2017-18

भामअनुसं
IIMR

All India Coordinated Research Project on Maize

ICAR-Indian Institute of Maize Research

PAU Campus, Ludhiana-141004, India

www.iimr.icar.gov.in

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BREEDING

CONTENTS

Breeding summary of AICRP Rabi 2017-18 trials

During *Rabi* 2017-18, total 107 entries were received for multi-location evaluation in AICRP late, medium maturity and quality protein maize (QPM) trials. Of 107 test entries, total 70 entries were received in NIVT late (32) and medium (38), 31 in AVT-I late (26) and medium (5), 3 in AVT-II medium and 3 entries in QPM trials. Total six different breeding trials were constituted and put for evaluation at 24 test centres across the four zones. There were 104 entries available for promotion from first and second year of testing, out of which only 25 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 2017-18 to rabi 2018-19 are given in table 2. Out of 32 test entries evaluated in NIVT late, 9 were found superior for set criteria and therefore were promoted to AVT I-Late. Similarly, in NIVT medium, 16 out of 38 entries were promoted to AVT I-Medium and of 26 entries evaluated in AVT-I Late, 22 were promoted to AVT-II Late. The two out of five tested in AVT-I Medium were promoted to AVT-II Medium. 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 2017-18 to Rabi 2018-19

SN	Criteria
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

Table 2. List of Entries promoted from Rabi 2017-18 to Rabi 2018-2019

List of Promoted entries from Rabi 2017-18 to Rabi 2018-19								
(415) NIVT TO AVTI								
Late maturity								
NWPZ (Z2) Late maturity (NIVT Late(Tr.1) To AVTI Late (Tr.4)								Final Remark
Hybrids name	Mean	Rank	%SUP	Days to75%dry husk	Days to Silking	Days to Anthesis		
PM17206L	11971.16	1	7.5	136.2	90.46	87.6	C.Rot (MR, 5.0)	Promoted
PM17205L	11959.21	2	7.4	136.64	89.83	87.73	C.Rot (MR, 4.3)	Promoted
PM17201L	11882.65	3	6.7	136.6	90.56	87.46	C.Rot (MR, 4.6)	Promoted

PM17204L	11865.95	4	6.5	135.18	90.92	87.75	C.Rot (MS, 5.6)	**Not Promoted**
DAS-MH-906	11675.42	5	4.8	137.47	91.59	88.47	C.Rot (MS, 5.3)	**Not Promoted**
PM17208L	11672.01	6	4.8	137.5	93.49	90.94	C.Rot (MR, 4.9)	**Promoted**
DKC9197 (IS8638)	11633.97	7	4.5	137.68	93.42	90.29	C.Rot (MS, 5.7)	**Not Promoted**
DAS-MH-905	11578.02	8	3.9	136.21	89.84	87.06	C.Rot (MS, 5.4)	**Not Promoted**
Kh-2597	11490.71	9	3.2	137.59	92.64	89.31	C.Rot (MS, 6.4)	**Not Promoted**
GK3214	11467.38	10	3.0	136.62	90.72	87.97	C.Rot (MS, 6.4)	**Not Promoted**
PM17203L	11333.65	11	1.8	136.72	92.24	89.71	C.Rot (R, 3.1)	**Promoted**
Rasi 4118	11217.65	12	0.7	136.52	92.24	88.97	C.Rot (MS, 5.6)	**Not Promoted**
P3522 (C)	11138.07	13	0.0	137.48	92.31	89.97	C.Rot(MR, 4.7)	-
CD (5%)	910.64							
Cut of yield	**11060.52**							
415 Z _NEPZ								
NEPZ (Z3) Late maturity (NIVT Late(Tr.1) To AVTI Late (Tr.4)								**Final Remark**
Hybrids name	**Mean**	**Rank**	**%SUP**	**Days to75%dry husk**	**Days to Silking**	**Days to Anthesis**		
Rasi 4118	11443.99	1	8.6	142.81	103.8	101.18	TLB (MR, 4.4)	**Promoted**
PM17208L	11402.05	2	8.2	142.12	103.18	100.42	TLB (R, 2.2)	**Promoted**
DAS-MH-905	11058.19	3	4.9	141.56	102.7	99.82	TLB (MS, 6.4)	**Not Promoted**
PM17206L	10981.58	4	4.2	143.2	102.03	99.26	TLB (MR, 3.2)	**Promoted**
DKC9197 (IS8638)	10909.21	5	3.5	144.5	104.81	102.48	TLB (MR, 4.8)	**Promoted**
PM17201L	10803.92	6	2.5	141.33	102.38	99.21	TLB (MR, 4.6)	**Promoted**
PM17204L	10733.5	7	1.8	142.42	102.71	100.22	TLB (MR, 3.9)	**Promoted**
NMH713(C)	10539.27	8	0.0	142.72	103.12	100.42	TLB (R, 1.7)	-
CD (5%)	856.25							
Cut of yield	**10587.74**							
415 Z _ PZ								
PZ (Z4) Late maturity (NIVT Late(Tr.1) To AVTI Late (Tr.4)								**Final Remark**
Hybrids name	**Mean**	**Rank**	**%SUP**	**Days to75%dry husk**	**Days to Silking**	**Days to Anthesis**		
ADV 7043	11425.01	1	2.91	112.71	73.59	71.02	C. Rot (MR, 3.2); SDM (MR, 20%)	**Promoted**
PM17206L	11105.75	2	0.03	110.1	69.94	67.22	C. Rot (MR, 4.0); SDM (S, 98%)	**Promoted**
KMH25K45(C)	11102.33	3	0.00	111.22	71.87	69.32	C. Rot (MS, 5.3);	-
CD (5%)	1023.66							
Cut of yield	**10401.35**							
415 Z_CWZ Entries not promoted								
CWZ (Z5) Late maturity (NIVT Late(Tr.1) To AVTI Late (Tr.4)								

Hybrids name	Mean	Rank	%SUP	Days to75%dry husk	Days to Silking	Days to Anthesis		Final Remark
KMH25K45(C)	10437.21	1	0.0	119.42	88.26	85.26	FSR (R, 1.7)	-
CD (5%)	2450.66							
Cut of yield	**7986.55**							
416 Z _NWPZ								
Medium maturity								
NWPZ (Z2) Medium maturity (NIVT Medium(Tr.2) To AVTI Medium (Tr.5)								
Hybrids name	**Mean**	**Rank**	**%SUP**	**Days to75%dry husk**	**Days to Silking**	**Days to Anthesis**		**Final Remarks**
BLH-111	11166.69	1	17.4	134.88	90.69	87.68	C.Rot (MS, 5.7)	**Not Promoted**
PM17207M	10758.82	2	13.1	136.16	90.78	88.24	C.Rot (MR, 3.4)	**Promoted**
IMHSB-17R-9	10391.82	3	9.2	137.37	92.8	90.08	C.Rot (MR, 5.1)	**Promoted**
IMHSB-17R-4	10138.41	4	6.6	136.49	92.31	89.3	C.Rot (MS, 5.6)	**Not Promoted**
IMHSB-17R-16	10122.88	5	6.4	136.36	93.62	90.91	C.Rot (MR, 3.6)	**Promoted**
DH-291	10089	6	6.0	133.92	90.21	87.21	C.Rot (R, 3.0)	**Promoted**
IMHSB-17R-20	9976.95	7	4.9	134.03	91.69	89.13	C.Rot (MS, 6.0)	**Not Promoted**
IMHSB-17R-3	9945.97	8	4.5	135.68	89.63	86.81	C.Rot (MS, 6.6)	**Not Promoted**
BLH-135	9882.19	9	3.9	138.04	94.21	91.04	C.Rot (MS, 5.8)	**Not Promoted**
IMHSB-17R-8	9833.2	10	3.4	137.12	93.05	90.01	C.Rot (MR, 4.7)	**Promoted**
IMHSB-17R-17	9807.27	11	3.1	136.58	90.72	88.22	C.Rot (MR, 3.3)	**Promoted**
BIO9544 (C)	9513.47	18	0.0	136.19	92.52	89.4	C.Rot (R, 2.7)	-
						2		
Consideration anthesis						91.4		
CD (5%)	1383.66							
Cut of yield	**9783.03**							
416 Z _NEPZ								
NEPZ (Z3) Medium maturity (NIVT Medium(Tr.2) To AVTI Medium (Tr.5)								
Hybrids name	**Mean**	**Rank**	**%SUP**	**Days to75%dry husk**	**Days to Silking**	**Days to Anthesis**		**Final Remarks**
BLH-111	11139.58	1	12.5	139.5	101.05	98.01	TLB (MR, 4.3)	**Promoted**
PM17207M	10566.25	2	6.7	139.98	100.71	98.11	TLB (MS, 6.8)	**Not Promoted**
BIO9544 (C)	9901.38	3	0.0	139.84	102.15	99.57	TLB (MR, 3.3)	-
						2		
Consideration anthesis						101.57		
CD (5%)	809.64	.						

Cut of yield	**10329.94**							
416 Z _PZ								
PZ (Z4) Medium maturity (NIVT Medium(Tr.2) To AVTI Medium (Tr.5) entries not promoted								
Hybrids name	**Mean**	**Rank**	**%SUP**	**Days to75%dry husk**	**Days to Silking**	**Days to Anthesis**		**Final Remarks**
BIO9544 (C)	10173.89	1	0.0	108.86	69.19	66.7	C.Rot (MR, 3.7); SDM (R, 1)	-
						2		
Consideration anthesis						68.7		
CD (5%)	961.04							
Cut of yield	**9212.85**							
416 Z _CWZ								
CWZ (Z5) Medium maturity (NIVT Medium(Tr.2) To AVTI Medium (Tr.5)								
Hybrids name	**Mean**	**Rank**	**%SUP**	**Days to75%dry husk**	**Days to Silking**	**Days to Anthesis**		**Final Remarks**
BLH-111	10127.66	1	21.7	111.76	82.12	79.48	FSR (R, 2.7)	**Promoted**
PM17207M	9696.06	2	16.5	112.52	83.8	81.4	FSR (R, 2.0)	**Promoted**
DH-291	9574.25	3	15.1	109.72	82.86	79.77	FSR (R, 2.8)	**Promoted**
IMHSB-17R-5	9569.62	4	15.0	111.81	82.23	79.11	FSR (R, 1.7)	**Promoted**
IMHSB-17R-14	9052.32	5	8.8	111.23	83.76	80.82	FSR (MR, 3.9)	**Promoted**
MMH17-22	8808.95	6	5.9	113.83	84.29	81.29	FSR (R, 2.9)	**Promoted**
IMHSB-17R-19	8795.09	7	5.7	114.3	84.74	81.75	FSR (MR, 3.3)	**Promoted**
BLH-135	8765.69	8	5.3	113.91	84.22	81.4	FSR (MR, 3.4)	**Promoted**
CMH 9999	8737.47	9	5.0	113.43	84.54	81.71	FSR (R, 1.9)	**Promoted**
AH-8181	8685	10	4.4	115.1	84.14	80.87	FSR (R, 2.1)	**Promoted**
IMHSB-17R-3	8671.97	11	4.2	114.67	84.09	80.94	FSR (MR, 3.2)	**Promoted**
IMHSB-17R-4	8656	12	4.0	112.36	83.52	80.97	FSR (MR, 3.6)	**Promoted**
IMHSB-17R-8	8655.83	13	4.0	112.84	83.24	80.41	FSR (R, 2.5)	**Promoted**
BIO9544 (C)	8321.12	14	0.0	113.87	83.87	80.65	FSR (R, 2.7)	-
						2		
Consideration anthesis						82.65		
CD (5%)	3357.03							
Cut of yield	**6770.63**							
419 Z _NWPZ								
(419) AVTI TO AVTII								
NWPZ (Z2) Late maturity (AVTI Late(Tr.4) To AVTII Late (Tr.7)								
Hybrids name	**Mean**	**Rank**	**%SUP**	**Days to75%dry husk**	**Days to Silking**	**Days to Anthesis**		**Final Remarks**

PM16204L	9719.61	1	10.7	136.58	92.06	89.25	C.Rot (MR, 5.0)	**Promoted**
BLH-116	9564.84	2	9.0	135.13	90.16	87.52	C.Rot (MR, 3.2)	**Promoted**
ADV7037	9530.98	3	8.6	138.36	94.47	91.18	C.Rot (MR, 4.4)	**Promoted**
Rasi 1107	9528.1	4	8.6	136.33	91.72	88.55	C.Rot (MS, 5.7)	**Not Promoted**
Rasi 2015 (P2)	9396.4	5	7.1	135.73	92.94	89.8	C.Rot (MS, 5.6)	**Not Promoted**
BLH-113	9359.25	6	6.6	135.21	91.07	88.11	C.Rot (MR, 4.3)	**Promoted**
DKC 9181	9352.88	7	6.6	137.16	93.27	89.99	C.Rot (MR, 4.3)	**Promoted**
PM16201L	9189.18	8	4.7	136.37	92.85	89.72	C.Rot (MR, 4.5)	**Promoted**
HT 16047	9161.22	9	4.4	136.88	92.23	88.82	C.Rot (MR, 4.9)	**Promoted**
DKC 9188	9159.28	10	4.4	137.29	92.01	88.81	C.Rot (MR, 3.9)	**Promoted**
DAS-MH-903	9155.44	11	4.3	136.13	92.18	89.06	C.Rot (MR, 4.4)	**Promoted**
Super3366	9095.66	12	3.6	137.02	93.08	90.36	C.Rot (MS, 5.7)	**Not Promoted**
GK3208	9082.33	13	3.5	136.43	91.95	88.6	C.Rot (MR, 3.4)	**Promoted**
PM16207L	9050.12	14	3.1	136.42	92.95	89.9	C.Rot (MR, 4.6)	**Promoted**
PM16202L	9014.81	15	2.7	136.56	90.88	87.89	C.Rot (MR, 4.5)	**Promoted**
HT 16052	8996.87	16	2.5	135.52	91.33	88.78	C.Rot (MR, 3.7)	**Promoted**
P3522 (C)	8777.46	21	0.0	137.11	93.38	90.1	C.Rot (MR, 3.7)	-
CD (5%)	728.59							
Cut of yield	**8991.02**							
419 Z_NEPZ								
NEPZ (Z3) Late maturity (AVTI Late(Tr.4) To AVTII Late (Tr.7)								
Hybrids name	**Mean**	**Rank**	**%SUP**	**Days to75%dry husk**	**Days to Silking**	**Days to Anthesis**		**Final Remarks**
PM16206L	10560.85	1	12.9	139.44	102.2	99.48	TLB (MR, 3.5)	**Promoted**
BLH-116	10167.77	2	8.7	139.89	103.99	101.03	TLB (MR, 4.1)	**Promoted**
Super3366	9976.27	3	6.7	141.05	102.85	99.99	TLB (MR, 3.5)	**Promoted**
P3522 (C)	9353.63	11	0	139.85	103.97	101.38	TLB (MS, 5.7)	-
CD (5%)	666.27							
Cut of yield	**9894.58**							
419 Z_PZ								
PZ (Z4) Late maturity (AVTI Late(Tr.4) To AVTII Late (Tr.7)								
Hybrids name	**Mean**	**Rank**	**%SUP**	**Days to75%dry husk**	**Days to Silking**	**Days to Anthesis**		**Final Remarks**
ADV7037	10730.96	1	10.0	113.38	73.42	70.93	C.Rot (MR, 3.5);SDM (R, 2)	**Promoted**
DKC 9188	10618.5	2	8.8	111.31	70.96	67.93	C.Rot (MR, 4.3); SDM (S, 84)	**Promoted**
DKC 9181	10480.98	3	7.4	111.62	71.5	68.77	C.Rot (MR, 4.1); SDM (S, 99)	**Promoted**
HT 16047	10434.85	4	6.9	110.16	70.16	66.82	C.Rot (MR, 5.1); SDM (S,92)	**Promoted**
MM2033	10433.06	5	6.9	112.15	72.69	69.71	C.Rot (MR, 3.2); SDM (MS, 38)	**Promoted**
PM16203L	10305.04	6	5.6	110.7	70	67.02	C.Rot (MR, 4.6); SDM (S, 87)	**Promoted**

VNR 32994	10298.13	7	5.5	113.11	72.26	69.84	C.Rot (MR, 3.2); SDM (S, 95)	**Promoted**
PM16205L	10260.92	8	5.1	109.92	69.99	67.29	C.Rot (MR, 4.9); SDM (S, 93)	**Promoted**
PM16202L	10221.19	9	4.7	109.93	69.59	66.17	C.Rot (MR, 5.1); SDM (S, 64)	**Promoted**
Rasi 2015 (P2)	10085.52	10	3.3	110.95	70.74	67.77	C.Rot (MR, 3.7); SDM (S, 75)	**Promoted**
DAS-MH-904	10051.04	11	3.0	108.83	68.23	64.73	C.Rot (MR, 3.5); SDM (S, 100)	**Promoted**
DAS-MH-903	10040.6	12	2.9	110.69	70	66.47	C.Rot (MR, 4.1); SDM (S, 93)	**Promoted**
PM16206L	10018.67	13	2.7	110.72	70.65	67.74	C.Rot (MS, 6.0); SDM (S, 95)	**Not Promoted**
Bio305	9954.74	14	2.0	111.2	71.62	68.76	C.Rot (MR, 4.2); SDM (S, 89)	**Promoted**
BLH-113	9952.07	15	2.0	110.12	69.94	66.74	C.Rot (MS, 5.6); SDM (S, 67)	**Not Promoted**
PM16201L	9946.13	16	1.9	110.84	70.42	67.6	C.Rot (MR, 4.3); SDM (S, 96)	**Promoted**
Super3366	9807.62	17	0.5	110.21	69.44	66.09	C.Rot (MS, 6.0); SDM (S, 70)	**Not Promoted**
P3522 (C)	9759.85	19	0.0	110.9	71.37	68.15	C.Rot (MS, 5.3); SDM (S, 97)	-
CD (5%)	941.89							
Cut of yield	**9789.07**							

419 Z _CWZ

CWZ (Z5) Late maturity (AVTI Late(Tr.4) To AVTII Late (Tr.7)

Hybrids name	Mean	Rank	%SUP	Days to75%dry husk	Days to Silking	Days to Anthesis		Final Remarks
PM16206L	10439.76	1	14.0	119.3	87.11	84.22	FSR (R, 2.0)	**Promoted**
PM16205L	10026.21	2	9.4	118.89	89.93	86.82	FSR (R, 2.1)	**Promoted**
PM16202L	9804.65	3	7.0	116.78	88.22	84.96	FSR (R, 2 .6)	**Promoted**
DKC 9181	9779.12	4	6.7	120.09	90.09	87.39	FSR (R, 2.4)	**Promoted**
BLH-116	9764.6	5	6.6	119.23	88.98	85.72	FSR (R, 2.6)	**Promoted**
Super3366	9697.77	6	5.9	118.05	89.4	86.28	FSR (MR, 4.0)	**Promoted**
PM16204L	9581.92	7	4.6	118.68	89.72	86.65	FSR (R, 2.9)	**Promoted**
PM16207L	9556.69	8	4.3	118.97	89.35	86.09	FSR (MR, 3.9)	**Promoted**
DAS-MH-904	9419.71	9	2.8	117.41	86.88	83.75	FSR (R, 2.7)	**Promoted**
VNR 32994	9376.83	10	2.4	120.2	90.59	87.57	FSR (R, 2.9)	**Promoted**
BLH-113	9355.38	11	2.1	119.34	89.82	86.53	FSR (R, 2.6)	**Promoted**
PM16201L	9335.83	12	1.9	120.77	91.21	88.14	FSR (R, 2.0)	**Promoted**
P3522 (C)	9161.18	13	0.0	120.15	89.45	85.98	FSR (R, 2.9)	-
CD (5%)	1733.24							
Cut of yield	**8706.52**							

420 Z_NWPZ								
NWPZ (Z2) Medium maturity (AVTI Medium(Tr.5) To AVTII Medium (Tr.8)								
Hybrids name	**Mean**	**Rank**	**%SUP**	**Days to75%dry husk**	**Days to Silking**	**Days to Anthesis**		**Final Remarks**
100K-18	9611.59	1	0.6	133.58	90.17	87.17	-	**Promoted**
Bio 9544(C)	9558.59	2	0.0	133.75	90.92	87.75		-
						2		
Consideration anthesis						89.75		
CD (5%)	736.91							
Cut of yield	**8874.68**							
420 Z_NEPZ								
NEPZ (Z3) Medium maturity (AVTI Medium(Tr.5) To AVTII Medium (Tr.8)								
Hybrids name	**Mean**	**Rank**	**%SUP**	**Days to75%dry husk**	**Days to Silking**	**Days to Anthesis**		**Final Remarks**
100K-18	9663.31	1	3.7	139.57	100.71	97.95	TLB (MS, 6.0)	**Not Promoted**
Bio 9544(C)	9315.79	2	0.0	140.19	102.14	99.14	TLB (MR, 4.0)	-
						2		
Consideration anthesis						101.14		
CD (5%)	785.4							
Cut of yield	**8877.91**							
420 Z_PZ								
PZ (Z4) Medium maturity (AVTI Medium(Tr.5) To AVTII Medium (Tr.8) entries not promoted								
Hybrids name	**Mean**	**Rank**	**%SUP**	**Days to75%dry husk**	**Days to Silking**	**Days to Anthesis**		**Final Remarks**
Bio 9544(C)	9184.14	1	0	109.21	69.92	67.67	C.Rot (MR, 4.9); SDM (R, 0)	-
						2		
Consideration anthesis						69.67		
CD (5%)	707.51							
Cut of yield	**8476.63**							
420 Z_CWZ								
CWZ (Z5) Medium maturity (AVTI Medium(Tr.5) To AVTII Medium (Tr.8)								
Hybrids name	**Mean**	**Rank**	**%SUP**	**Days to75%dry husk**	**Days to Silking**	**Days to Anthesis**		**Final Remarks**
DKC 8185	8300.24	1	11.3	115.5	87	83.67	FSR (R, 2.8)	**Promoted**
Bio 9544(C)	7455.75	2	0.0	114.83	86.17	82.67	FSR (R, 3.0)	-

						2		
Consideration anthesis						84.67		
CD (5%)	1317.95							
Cut of yield	**6982.29**							
QPM								
422 Z_NWPZ								
NWPZ (Z2) (Tr.QPM I TO Tr.QPM II entries not promoted								
Hybrids name	**Mean**	**Rank**	**%SUP**	**Days to75%dry husk**	**Days to Silking**	**Days to Anthesis**		**Final Remarks**
HQPM1 (C)	5782.86	1	0.0	133.33	88.5	85.58	C.Rot (MR, 4.2)	-
CD (5%)	2255.92							
Cut of yield	3526.95							
422 Z_NEPZ								
NEPZ (Z3) (Tr.QPM I TO Tr.QPM II Not entries promoted								
Hybrids name	**Mean**	**Rank**	**%SUP**	**Days to75%dry husk**	**Days to Silking**	**Days to Anthesis**		**Final Remarks**
HQPM7 (C)	8046.37	1	0.0	139.62	102.95	100.24	TLB (MS, 6.0)	-
CD (5%)	673.16							
Cut of yield	7373.21							
422 Z_PZ								
PZ (Z4) (Tr.QPM I TO Tr.QPM II entries not promoted								
Hybrids name	**Mean**	**Rank**	**%SUP**	**Days to75%dry husk**	**Days to Silking**	**Days to Anthesis**		**Final Remarks**
HQPM1 (C)	7491.01	1	0.0	108.95	71	68.67	C.Rot ((MR, 4.5); SDM (S, 79)	-
CD (5%)	533.48							
Cut of yield	6957.53							
422 Z_CWZ								
CWZ (Z5) (Tr.QPM I TO Tr.QPM II entries not promoted								
Hybrids name	**Mean**	**Rank**	**%SUP**	**Days to75%dry husk**	**Days to Silking**	**Days to Anthesis**		**Final Remarks**
HQPM1 (C)	9843.25	1	0.0	118.5	89	85	FSR (MR, 4.2)	-
CD (5%)	2201.44							
Cut of yield	7641.81							

Table No. 1: NIVT (Late Maturity)

Yield (Kg/ha)

S. No.	Entry Name	CWZ (Zone-V)						NEPZ (Zone-III)															
		BANS		GODH		ZONE		VARA		BAHA		BHUB		DHOL		NADI		RANC		SABO		ZONE	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	ADV 7043	7677	26	5321	32	6970	27	9531	19	10099	8	7185	15	11224	12	4491	13	10939	24	12363	7	10225	14
2	ADV 7164	7070	32	7589	5	7059	26	10404	15	7341	29	6950	23	10940	16	4703	9	11337	19	10251	23	9485	23
3	Bio 302	9165	15	6762	16	7772	18	10125	17	8829	23	7017	19	10577	22	4810	5	10770	26	12675	5	9950	17
4	DAS-MH-905	11329	4	7213	9	9356	3	10416	14	9971	9	6952	22	12165	3	3837	27	12761	11	13602	2	11058	3
5	DAS-MH-906	9307	14	5589	29	7472	21	9019	24	9918	10	7317	8	10798	19	4348	16	11125	22	11074	14	9893	18
6	DAS-MH-907	11995	3	6658	17	9080	8	9236	22	8691	25	6106	33	10933	17	4365	15	11274	20	11327	11	9695	21
7	DKC9195 (IS8508)	12053	2	7176	10	9135	6	11436	6	6778	34	7301	10	11150	13	3616	32	12035	14	9330	32	9736	20
8	DKC9197 (IS8638)	10265	8	5630	26	7905	15	11395	8	10167	6	6621	27	11227	11	4612	10	14012	2	12180	8	10909	5
9	GK3212	9132	16	5979	22	7851	17	10568	12	9814	11	7164	16	9950	31	4713	8	12735	12	11380	10	10200	15
10	GK3214	9417	12	6556	18	8035	14	10293	16	9489	16	6646	26	10431	24	3774	30	11111	23	9873	28	9759	19
11	IMHSB-17R-13	8823	19	6852	15	7905	16	8728	26	7541	27	7241	12	9049	34	4331	18	11412	17	13517	3	9506	22
12	IMHSB-17R-18	7302	31	5172	33	6466	30	7876	30	7306	30	6570	31	10343	27	5212	2	7273	33	10079	25	8205	32
13	IMHSB-17R-21	7411	30	4613	34	6247	32	8198	28	7540	28	6975	21	10471	23	4068	25	7199	34	9455	31	8353	30
14	IMHSB-17R-22	8274	21	6509	19	7169	23	9106	23	9239	20	6703	25	9599	32	3799	29	10291	28	10306	20	9177	26
15	IMHSB-17R-23	7521	28	5543	30	6601	29	6352	33	7150	33	6577	29	11002	15	3237	33	10931	25	10224	24	8816	29
16	KH-2595	7595	27	6888	13	7167	24	8785	25	9219	21	7302	9	11969	4	4212	22	13111	9	11884	9	10387	12
17	KMH25K45(C)	10639	7	9636	2	10437	1	9736	18	9424	18	8016	2	9122	33	5314	1	9752	29	11039	15	9418	24
18	Kh-2597	8111	24	9310	3	8956	9	11092	11	9670	14	7521	5	11478	8	4763	7	13429	7	9966	26	10463	10
19	MFH17-31	6098	34	6406	20	5872	33	6191	34	6762	35	6582	28	10727	21	4094	24	7358	32	9793	30	7358	34
20	MFH17-32	1032	35	5429	31	3367	35	4861	35	8753	24	1914	35	10029	29	3033	34	6291	35	9154	33	6291	35
21	MFH17-33	6399	33	4302	35	5714	34	6854	32	8837	22	8266	1	11032	14	5093	4	8200	30	9120	34	8200	33
22	MM2034	12581	1	6924	12	9184	5	9294	21	7229	31	6571	30	10398	25	2723	35	11751	15	10360	19	9237	25
23	MM9333	8253	22	5774	25	7071	25	8163	29	7164	32	7214	13	9968	30	4188	23	11389	18	10300	22	9050	27
24	NMH713(C)	9892	11	10002	1	9743	2	9343	20	10594	2	7198	14	10889	18	4281	19	13742	5	11123	13	10539	8
25	P3522 (C)	7910	25	5903	24	6851	28	11431	7	9513	15	7346	7	10789	20	5195	3	12803	10	10300	21	10344	13

Table No. 1: NIVT (Late Maturity)

Yield (Kg/ha)

S. No.	Entry Name	CWZ (Zone-V)						NEPZ (Zone-III)															
		BANS		GODH		ZONE		VARA		BAHA		BHUB		DHOL		NADI		RANC		SABO		ZONE	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
26	PM17201L	9979	9	6356	21	8918	10	11183	10	11457	1	6983	20	11432	9	4230	21	13190	8	10783	17	10804	6
27	PM17202L	11293	6	7863	4	9303	4	10439	13	9670	13	6409	32	11963	5	3751	31	11162	21	11233	12	10158	16
28	PM17203L	11313	5	7468	7	9120	7	11574	4	10149	7	7102	18	11955	6	4332	17	13458	6	8474	35	10458	11
29	PM17204L	8237	23	5977	23	6447	31	11785	3	9327	19	6751	24	12443	2	4600	11	11572	16	12514	6	10734	7
30	PM17205L	8997	17	5627	27	7514	20	11552	5	10383	5	7360	6	10370	26	4251	20	12147	13	10780	18	10492	9
31	PM17206L	7486	29	7587	6	7633	19	11980	2	10526	4	7261	11	11741	7	4778	6	13746	4	10998	16	10982	4
32	PM17208L	8842	18	6856	14	8150	12	12063	1	10539	3	7881	3	11258	10	4409	14	13879	3	12676	4	11402	2
33	REH2016-3	8312	20	5600	28	7403	22	7011	31	8327	26	5978	34	10073	28	3909	26	8000	31	9846	29	8240	31
34	Rasi 3486(W)	9388	13	7059	11	8054	13	8302	27	9688	12	7835	4	7641	35	3829	28	10481	27	9882	27	8998	28
35	Rasi 4118	9970	10	7308	8	8326	11	11183	9	9479	17	7131	17	13503	1	4581	12	14073	1	13693	1	11444	1
	Location Mean	8831	.	6612	.	7722	.	9586	.	9045	.	6913	.	10818	.	4271	.	11640	.	10902	.	9791	.
	CV (%)	27.2	.	25.8	.	27.0	.	10.4	.	13.1	.	8.3	.	11.1	.	18.1	.	15.6	.	14.1	.	12.9	.
	F (Prob)	0.01	.	0.08	.	0	.	0	.	0	.	0	.	0.01	.	0.16	.	0	.	0.01	.	0	.
	CD (5%)	3931.6	.	2787.5	.	2450.7	.	1628.4	.	1930.3	.	937.8	.	1965.2	.	1264.2	.	2980.9	.	2518.0	.	856.3	.
	CD (1%)	5233.3	.	3710.4	.	3241.1	.	2167.6	.	2569.5	.	1248.3	.	2615.8	.	1682.8	.	3974.1	.	3351.6	.	1127.7	.

Table No. 1: (Contd.)

Yield (Kg/ha)

S. No.	Entry Name	NWPZ (Zone-II)										PZ (Zone-IV)																ALL India	
		KANP		KARN		LUDH		PANT		ZONE		COIM		DHAR		KARI		KOLH		MAND		RAHU		VAGA		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	ADV 7043	11196	31	11365	20	9874	18	10029	22	10739	20	12947	3	12434	3	7271	5	8984	4	11539	2	16285	7	9480	1	11425	1	10290	12
2	ADV 7164	10810	35	12273	7	8708	24	9379	28	10294	27	11762	16	10139	11	7395	4	9937	1	10813	8	15508	11	8907	11	10766	8	9762	23
3	Bio 302	11258	29	11450	19	9339	20	9627	25	10311	26	11956	12	11351	5	6464	19	7808	15	8784	24	16018	8	8962	8	10416	15	9924	20
4	DAS-MH-905	11272	28	13019	1	11470	5	10697	15	11578	8	11795	15	8572	25	7819	1	6992	21	8614	26	16400	5	8281	25	10511	11	10801	3
5	DAS-MH-906	11810	16	10994	27	10715	13	13356	1	11675	5	11940	14	10127	12	7232	8	8032	9	8683	25	15871	9	9047	4	10520	9	10204	17
6	DAS-MH-907	11665	20	12884	2	9236	21	10658	17	11104	14	12646	6	10737	8	6178	28	6498	24	8798	23	15533	10	9041	5	10407	16	10156	18
7	DKC9195 (IS8508)	12360	10	12256	8	10807	11	9226	29	11073	17	9523	31	10489	9	6949	13	7866	13	8595	27	15336	13	9178	3	10078	21	10115	19
8	DKC9197 (IS8638)	12552	6	11084	24	12339	1	10657	18	11634	7	12192	10	9948	13	6369	23	8139	8	10932	7	16636	4	8488	17	10982	5	10761	4
9	GK3212	11052	33	12509	3	8033	26	10069	21	10490	23	10917	25	9012	20	6461	20	5473	30	9858	14	13773	24	8387	18	9798	23	9859	22
10	GK3214	11375	26	12049	10	11339	8	11748	6	11467	10	11728	17	10339	10	6606	18	5153	32	13337	1	14805	18	8348	19	10796	7	10226	15
11	IMHSB-17R-13	12336	11	11005	26	7403	29	5955	32	9076	32	10354	28	9860	15	5292	35	4873	33	9928	13	14889	16	7752	30	9635	26	9258	28
12	IMHSB-17R-18	12543	7	11607	18	7015	31	9192	30	10129	29	9012	33	5953	31	6291	25	5433	31	8087	31	12917	29	7817	28	8936	32	8680	32
13	IMHSB-17R-21	13070	1	9851	32	7685	27	10711	14	10259	28	10543	26	7525	28	7240	7	5668	28	7598	32	12494	31	9015	6	9364	30	8837	30
14	IMHSB-17R-22	12540	8	10225	31	9136	22	10668	16	10729	21	10334	29	8953	21	6287	26	6784	23	6560	34	13607	25	8161	27	9149	31	9332	27
15	IMHSB-17R-23	12712	5	12405	4	7278	30	8002	31	9919	30	9635	30	8284	26	7421	3	7153	20	8837	22	13586	27	8221	26	9403	29	8955	29
16	KH-2595	11750	17	10557	30	10307	16	11057	10	10948	18	12613	7	9411	17	7139	11	5643	29	9049	21	17227	2	8673	15	10863	6	10269	14
17	KMH25K45(C)	11224	30	10945	29	9710	19	9874	24	10430	24	13184	1	11030	7	7254	6	8625	6	10933	6	15064	15	8971	7	11102	3	10273	13
18	Kh-2597	11714	18	11343	21	10742	12	12545	2	11491	9	12935	4	6778	29	6262	27	9809	2	9319	18	14439	19	8292	22	10224	18	10450	7
19	MFH17-31	11671	19	5631	34	5164	34	1950	34	6168	35	9037	32	4584	34	6388	22	5941	26	6695	33	11307	34	6870	33	8268	33	6917	34
20	MFH17-32	11456	24	3135	35	4746	35	6446	.	6446	34	6966	35	4953	33	5558	33	4108	35	6303	.	10440	35	5792	35	6303	35	5602	35
21	MFH17-33	12731	4	6366	33	5242	33	2948	33	6775	33	8469	34	4294	35	5814	30	4847	34	9061	20	11572	32	5966	34	8144	34	7208	33
22	MM2034	11064	32	11651	15	7418	28	11130	7	10380	25	11002	24	6531	30	5857	29	5933	27	10610	9	13989	22	8340	20	9956	22	9730	24
23	MM9333	11897	15	11878	12	8599	25	10478	19	10857	19	11572	18	8920	22	6821	16	7828	14	9442	17	14118	20	8603	16	10103	19	9550	26
24	NMH713(C)	11323	27	11726	14	8824	23	10212	20	10504	22	12717	5	9351	18	6330	24	9625	3	10193	10	11389	33	7508	32	9732	24	10218	16
25	P3522 (C)	11387	25	11615	17	10679	14	11128	8	11138	13	11332	20	12508	2	5799	32	7460	18	8550	28	14080	21	8861	12	9622	27	9897	21

Table No. 1: (Contd.)

Yield (Kg/ha)

S. No.	Entry Name	NWPZ (Zone-II)										PZ (Zone-IV)																ALL India	
		KANP		KARN		LUDH		PANT		ZONE		COIM		DHAR		KARI		KOLH		MAND		RAHU		VAGA		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
26	PM17201L	12259	12	11775	13	12105	4	10945	12	11883	3	12011	11	11128	6	5803	31	7692	17	11029	5	14828	17	8950	10	10490	13	10717	6
27	PM17202L	11468	23	11235	22	11084	9	9910	23	11085	15	11952	13	5903	32	7059	12	8441	7	9304	19	15428	12	8787	13	10497	12	10381	11
28	PM17203L	12146	13	12218	9	11414	7	9453	27	11334	11	11491	19	9247	19	6906	14	7887	12	9634	15	13603	26	8695	14	10094	20	10413	10
29	PM17204L	12745	3	12295	6	11444	6	10992	11	11866	4	11088	21	8859	23	6896	15	7353	19	11361	3	13071	28	9205	2	10447	14	10449	8
30	PM17205L	12385	9	11631	16	12188	2	11998	4	11959	2	12321	8	8752	24	7147	10	7901	11	8276	30	16321	6	8961	9	10398	17	10416	9
31	PM17206L	12073	14	11181	23	12154	3	12457	3	11971	1	10488	27	9893	14	7159	9	8721	5	10043	12	19126	1	8296	21	11106	2	10872	2
32	PM17208L	12790	2	10953	28	10950	10	11960	5	11672	6	12267	9	11892	4	6790	17	7787	16	11092	4	17051	3	8284	23	11035	4	10953	1
33	REH2016-3	11490	22	11047	25	6458	32	9536	26	9672	31	11043	23	8026	27	7440	2	7924	10	8480	29	12652	30	7594	31	9425	28	8806	31
34	Rasi 3486(W)	11520	21	11904	11	10131	17	10725	13	11073	16	11052	22	9768	16	5351	34	6866	22	10188	11	13904	23	7793	29	9732	25	9606	25
35	Rasi 4118	11005	34	12313	5	10363	15	11110	9	11218	12	13174	2	13458	1	6442	21	6111	25	9566	16	15232	14	8281	24	10514	10	10761	5
	Location Mean	11847	.	11039	.	9431	.	10005	.	10585	.	11257	.	9115	.	6614	.	7180	.	9507	.	14529	.	8337	.	10052	.	9809	.
	CV (%)	8.3	.	9.0	.	10.0	.	13.5	.	10.2	.	11.9	.	21.4	.	12.4	.	21.2	.	15.7	.	13.1	.	9.3	.	13.2	.	14.0	.
	F (Prob)	0.5	.	0	.	0	.	0	.	0	.	0	.	0	.	0.07	.	0	.	0	.	0	.	0	.	0	.	0	.
	CD (5%)	1613.1	.	1616.1	.	1536.2	.	2202.2	.	910.6	.	2195.3	.	3188.5	.	1343.0	.	2489.4	.	2435.5	.	3103.4	.	1265.9	.	1023.7	.	558.6	.
	CD (1%)	2147.2	.	2151.2	.	2044.9	.	2932.7	.	1200.6	.	2922.2	.	4244.2	.	1787.7	.	3313.6	.	3243.4	.	4131.0	.	1685.1	.	1348.7	.	734.7	.

Table No. 1: NIVT (Late Maturity)

Shelling %

S. No.	Entry Name	CWZ (Zone-V)			NEPZ (Zone-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7043	83	82	83	52	78	80	79	88	87	79	78
2	ADV 7164	82	80	81	54	76	80	81	86	88	74	77
3	Bio 302	82	79	80	52	78	80	77	86	86	79	77
4	DAS-MH-905	83	82	83	53	82	80	80	86	88	80	78
5	DAS-MH-906	80	80	80	47	77	80	80	88	87	77	76
6	DAS-MH-907	82	85	83	52	77	80	80	87	85	77	77
7	DKC9195 (IS8508)	82	81	81	53	76	81	80	89	87	76	77
8	DKC9197 (IS8638)	84	78	80	51	79	81	82	86	88	78	78
9	GK3212	82	71	77	52	79	81	80	87	87	81	78
10	GK3214	84	83	84	51	80	81	80	85	86	82	78
11	IMHSB-17R-13	83	81	82	49	76	80	78	83	84	77	75
12	IMHSB-17R-18	79	73	76	46	76	79	80	88	81	72	74
13	IMHSB-17R-21	82	74	78	50	78	81	79	86	83	77	76
14	IMHSB-17R-22	82	85	83	50	77	80	80	85	85	77	77
15	IMHSB-17R-23	75	77	76	45	78	80	81	84	82	78	75
16	KH-2595	80	83	82	47	78	81	81	84	85	80	77
17	KMH25K45(C)	82	79	80	48	80	81	80	88	83	76	77
18	Kh-2597	81	81	81	49	81	80	83	86	85	79	77
19	MFH17-31	78	80	78	50	74	80	80	88	.	77	.
20	MFH17-32	78	84	80	47	76	79	79	80	.	77	.
21	MFH17-33	76	80	78	53	75	81	82	86	.	81	.
22	MM2034	82	78	80	48	76	81	78	85	85	81	76
23	MM9333	81	78	80	50	77	80	77	83	85	74	75
24	NMH713(C)	81	81	82	50	81	80	81	87	84	79	77
25	P3522 (C)	80	74	77	53	77	80	79	84	88	78	77

Table No. 1: NIVT (Late Maturity)

Shelling %

S. No.	Entry Name	CWZ (Zone-V)			NEPZ (Zone-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	PM17201L	83	80	82	53	82	81	81	88	88	76	78
27	PM17202L	85	79	82	54	77	80	79	86	87	74	77
28	PM17203L	82	82	82	52	81	81	81	87	85	74	77
29	PM17204L	82	74	77	51	77	80	82	86	84	78	77
30	PM17205L	82	73	78	53	78	80	78	86	87	77	77
31	PM17206L	83	77	80	52	82	80	81	86	86	78	78
32	PM17208L	83	79	81	52	79	81	80	86	87	81	78
33	REH2016-3	81	77	79	50	77	80	79	85	84	78	76
34	Rasi 3486(W)	82	77	79	50	77	80	61	88	85	73	73
35	Rasi 4118	81	82	81	50	79	80	82	88	86	79	78
	Location Mean	81	79	80	51	78	80	80	86	86	78	77
	CV (%)	2.5	3.8	3.2	3.9	1.4	0.8	4.2	2.9	1.0	3.1	2.6
	F (Prob)	0	0	0	0.3	0	0	0	0.22	0	0	0
	CD (5%)	3.4	4.9	3.1	1.6	1.7	1.0	5.5	4.1	1.4	3.9	1.2
	CD (1%)	4.5	6.5	4.1	2.2	2.3	1.3	7.3	5.5	1.8	5.2	1.6

Table No. 1: (Contd.)

Shelling %

S. No.	Entry Name	NWPZ (Zone-II)					PZ (Zone-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7043	76	79	87	81	81	81	82	65	84	80	80	86	81	80	80
2	ADV 7164	74	79	87	77	80	81	87	68	83	80	80	87	80	81	79
3	Bio 302	77	81	85	81	81	82	85	66	82	78	80	85	79	79	79
4	DAS-MH-905	76	81	85	82	81	81	85	68	83	78	80	84	79	80	80
5	DAS-MH-906	76	80	87	87	83	81	79	67	85	78	80	89	80	80	79
6	DAS-MH-907	75	81	85	83	81	81	85	67	80	78	80	87	80	80	79
7	DKC9195 (IS8508)	76	81	86	81	81	82	85	63	81	77	80	86	81	79	79
8	DKC9197 (IS8638)	77	82	87	79	81	81	81	65	75	81	80	85	80	79	79
9	GK3212	77	81	85	82	81	83	85	65	86	81	80	86	80	80	79
10	GK3214	75	79	86	83	81	81	84	66	75	81	80	83	78	79	79
11	IMHSB-17R-13	77	81	82	76	79	81	78	64	81	79	80	82	81	78	78
12	IMHSB-17R-18	78	80	79	84	80	78	78	62	78	81	80	81	78	77	77
13	IMHSB-17R-21	76	82	83	82	81	78	81	66	78	81	80	82	80	78	78
14	IMHSB-17R-22	77	81	85	84	81	81	81	67	78	76	80	84	79	78	79
15	IMHSB-17R-23	76	83	77	79	78	78	74	64	75	79	80	79	79	76	76
16	KH-2595	76	79	84	81	80	79	79	65	66	79	80	83	79	76	78
17	KMH25K45(C)	79	79	86	81	82	79	80	65	88	81	80	86	80	79	79
18	Kh-2597	76	80	80	81	79	79	77	62	78	81	80	80	80	77	78
19	MFH17-31	77	81	83	82	81	79	81	66	80	78	80	83	78	78	.
20	MFH17-32	77	82	81	0	60	78	77	64	76	.	80	80	77	.	.
21	MFH17-33	76	80	84	80	80	81	82	63	64	81	80	82	76	76	.
22	MM2034	76	80	81	80	79	77	78	65	78	81	80	81	79	78	78
23	MM9333	77	81	83	84	82	81	91	67	81	80	80	84	80	80	79
24	NMH713(C)	76	81	85	85	81	78	80	64	78	81	80	82	78	78	79
25	P3522 (C)	76	80	84	82	81	81	84	64	74	81	80	83	80	79	78

Table No. 1: (Contd.)

Shelling %

S. No.	Entry Name	NWPZ (Zone-II)					PZ (Zone-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	PM17201L	77	82	86	86	83	81	85	65	85	81	80	88	81	81	81
27	PM17202L	76	82	86	81	81	80	85	66	84	79	80	88	80	80	79
28	PM17203L	76	80	86	82	81	82	82	64	76	81	80	84	79	79	79
29	PM17204L	76	80	85	81	81	80	82	65	81	81	80	84	80	79	78
30	PM17205L	76	81	87	89	84	81	86	67	81	77	80	87	81	80	80
31	PM17206L	78	82	86	82	82	81	83	65	79	81	80	85	79	79	79
32	PM17208L	78	80	85	83	81	82	84	63	81	77	80	86	79	79	79
33	REH2016-3	77	81	83	80	80	81	82	67	82	81	80	82	78	79	78
34	Rasi 3486(W)	76	81	85	85	81	77	81	63	84	79	80	81	79	78	77
35	Rasi 4118	76	80	85	79	80	81	81	65	74	80	80	82	79	78	79
	Location Mean	76	81	84	81	81	80	82	65	79	80	80	84	79	79	79
	CV (%)	2.4	2.0	1.9	2.7	2.3	0.9	2.5	2.4	0.0	1.6	0.0	2.6	1.3	1.7	2.3
	F (Prob)	0.92	0.57	0	0	0	0	0	0.03	0	0	.	0	0	0	0
	CD (5%)	3.0	2.7	2.6	3.6	1.5	1.2	3.4	2.4	0.0	2.1	0.0	3.5	1.7	0.8	0.7
	CD (1%)	4.0	3.6	3.4	4.8	1.9	1.6	4.5	3.2	0.0	2.8	0.0	4.7	2.3	1.0	0.9

Table No. 1: NIVT (Late Maturity)

Moisture%

S. No.	Entry Name	CWZ (Zone-V)			NEPZ (Zone-III)							
		BANS	GODH	MEAN	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7043	16.2	15.4	15.9	29.9	28.2	19.4	24.3	19.9	29.9	31.3	26.2
2	ADV 7164	16.0	16.8	16.2	29.8	27.1	19.8	27.5	18.9	30.7	30.1	26.1
3	Bio 302	16.2	14.7	15.5	27.2	26.4	19.9	22.6	19.3	29.7	25.5	24.3
4	DAS-MH-905	17.4	15.1	16.4	25.9	27.2	19.4	19.8	19.5	29.6	23.6	23.6
5	DAS-MH-906	15.9	15.2	15.7	26.9	26.4	19.4	22.4	19.7	26.2	26.1	24.0
6	DAS-MH-907	16.7	16.2	16.3	26.7	28.0	19.5	20.6	19.6	27.8	28.9	24.4
7	DKC9195 (IS8508)	16.5	15.4	16.0	25.3	26.7	19.1	21.7	18.8	29.2	25.7	23.8
8	DKC9197 (IS8638)	16.1	17.1	16.5	26.7	28.2	19.8	26.0	19.9	29.6	25.8	25.1
9	GK3212	15.8	16.6	16.3	27.6	26.6	19.3	25.9	19.5	31.5	31.3	25.9
10	GK3214	16.5	16.8	16.9	27.0	27.3	19.2	25.1	19.6	28.0	31.8	25.3
11	IMHSB-17R-13	16.5	15.2	15.9	28.1	26.6	19.4	27.8	19.4	28.7	24.4	24.8
12	IMHSB-17R-18	16.2	15.0	15.5	25.5	26.6	18.9	23.1	19.1	30.3	29.0	24.6
13	IMHSB-17R-21	16.0	14.5	15.3	26.7	26.1	19.5	23.0	19.6	26.9	26.3	24.1
14	IMHSB-17R-22	16.4	15.5	15.8	26.3	26.9	19.3	23.1	19.2	31.1	29.0	25.1
15	IMHSB-17R-23	16.2	14.8	15.8	27.6	27.2	18.9	23.4	19.4	28.9	26.0	24.5
16	KH-2595	15.5	19.0	17.1	26.9	26.3	19.6	25.8	19.1	29.7	26.6	24.9
17	KMH25K45(C)	16.3	15.1	15.7	25.4	27.0	19.1	26.4	19.9	29.7	27.6	25.0
18	Kh-2597	15.7	15.8	15.7	26.6	28.0	19.3	27.4	19.9	30.3	26.3	25.4
19	MFH17-31	15.7	17.8	16.7	22.9	25.3	19.2	22.1	18.6	.	24.5	.
20	MFH17-32	15.4	16.1	15.7	26.0	26.1	19.0	22.4	19.8	.	28.6	.
21	MFH17-33	16.3	15.0	15.6	27.3	26.9	19.1	25.1	19.6	.	28.8	.
22	MM2034	16.9	17.0	16.7	25.6	25.8	19.5	23.3	19.7	27.1	28.1	24.1
23	MM9333	16.2	14.9	15.6	28.0	28.0	19.4	24.7	18.9	29.0	29.6	25.4
24	NMH713(C)	16.9	15.2	16.1	25.5	27.2	19.3	23.0	19.8	30.6	26.1	24.5
25	P3522 (C)	15.9	14.7	15.3	27.3	25.8	20.1	20.5	19.0	27.9	20.8	22.9

Table No. 1: NIVT (Late Maturity)

Moisture%

S. No.	Entry Name	CWZ (Zone-V)			NEPZ (Zone-III)							
		BANS	GODH	MEAN	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	PM17201L	16.1	17.3	16.8	23.2	26.0	18.8	22.1	19.4	29.7	29.8	24.3
27	PM17202L	17.2	15.1	16.0	23.6	23.9	19.2	18.8	17.8	30.1	24.1	22.6
28	PM17203L	16.8	14.9	15.9	24.8	26.9	19.3	25.6	19.3	28.7	32.5	25.2
29	PM17204L	16.5	16.3	16.1	23.5	24.2	19.8	22.5	19.0	29.1	26.3	23.4
30	PM17205L	16.5	17.3	17.0	23.7	25.5	19.6	20.3	19.2	28.4	31.9	23.9
31	PM17206L	16.5	16.5	16.4	24.2	25.8	19.4	19.8	19.3	29.1	23.9	23.1
32	PM17208L	15.6	17.0	16.5	25.2	28.0	19.6	19.9	18.9	29.6	27.8	24.1
33	REH2016-3	15.8	16.6	16.3	28.1	26.1	18.9	22.5	19.8	29.4	27.7	24.8
34	Rasi 3486(W)	16.2	15.7	15.9	24.8	26.0	19.6	20.3	18.9	27.0	25.7	23.2
35	Rasi 4118	15.6	17.8	16.6	26.6	25.8	19.8	25.3	19.8	29.7	28.5	25.1
	Location Mean	16.2	16.0	16.1	26.2	26.6	19.4	23.3	19.3	29.1	27.4	24.4
	CV (%)	2.6	6.4	4.9	3.9	2.0	1.2	9.0	3.7	3.5	8.3	5.4
	F (Prob)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
	CD (5%)	0.7	1.7	0.9	1.7	0.9	0.4	3.4	1.2	1.7	3.7	0.8
	CD (1%)	0.9	2.2	1.2	2.2	1.2	0.5	4.6	1.5	2.2	4.9	1.1

Table No. 1: (Contd.)

Moisture%

S. No.	Entry Name	NWPZ (Zone-II)					PZ (Zone-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7043	14.4	28.6	13.8	26.6	20.8	20.0	20.5	20.9	15.0	18.3	18.0	19.7	16.4	18.5	21.3
2	ADV 7164	14.4	26.4	13.3	27.3	20.3	20.9	24.0	21.4	14.8	19.3	18.0	18.4	15.9	19.1	21.4
3	Bio 302	15.1	28.2	14.2	27.0	21.1	19.0	20.3	19.4	13.4	17.3	18.0	19.2	15.9	17.8	20.4
4	DAS-MH-905	14.2	28.2	12.9	27.7	20.5	18.8	21.4	15.4	12.2	16.6	18.0	18.0	16.5	17.1	19.9
5	DAS-MH-906	14.8	28.9	13.3	27.4	21.0	19.3	21.4	19.0	14.6	17.4	18.0	18.1	16.5	18.2	20.4
6	DAS-MH-907	15.9	29.1	13.0	26.8	21.4	21.3	21.9	19.7	13.8	18.7	18.0	18.0	15.7	18.3	20.7
7	DKC9195 (IS8508)	14.6	29.5	13.4	24.8	20.8	18.1	27.7	20.0	14.4	17.5	18.0	18.4	16.0	18.8	20.6
8	DKC9197 (IS8638)	15.4	28.0	14.1	29.1	21.6	18.5	22.5	20.1	14.6	17.6	18.0	19.3	15.5	18.4	21.1
9	GK3212	14.8	29.8	14.0	28.5	21.9	19.8	22.4	21.3	14.5	17.8	18.0	18.6	18.1	18.8	21.5
10	GK3214	15.3	28.3	13.1	24.8	20.3	21.3	21.8	19.3	14.1	18.7	18.0	18.9	16.2	18.6	21.0
11	IMHSB-17R-13	13.4	28.0	13.5	27.0	20.5	19.6	20.4	22.7	13.6	17.2	18.0	19.2	17.1	18.5	20.7
12	IMHSB-17R-18	15.5	28.0	13.4	27.2	21.2	19.1	19.1	22.1	14.6	16.8	18.0	18.3	16.0	18.0	20.6
13	IMHSB-17R-21	14.7	27.7	13.4	26.5	20.6	18.7	24.0	18.1	13.5	18.1	18.0	19.3	15.8	18.0	20.3
14	IMHSB-17R-22	14.2	28.6	12.7	28.1	20.9	19.1	17.8	19.8	14.8	17.1	18.0	18.0	16.4	17.7	20.6
15	IMHSB-17R-23	15.5	28.6	14.5	26.1	21.0	19.6	20.8	19.6	13.2	16.5	18.0	19.3	15.6	17.8	20.4
16	KH-2595	15.1	28.8	13.8	29.6	21.6	19.1	21.4	21.6	14.8	16.9	18.0	18.8	16.7	18.3	21.0
17	KMH25K45(C)	14.1	29.0	13.5	27.4	21.2	19.9	18.4	22.3	14.7	17.2	18.0	18.5	15.9	18.1	20.8
18	Kh-2597	15.0	27.6	14.2	28.3	21.1	18.8	22.5	23.3	13.6	16.5	18.0	20.0	16.8	18.8	21.2
19	MFH17-31	13.8	29.2	13.9	26.3	21.0	17.2	19.1	16.7	14.6	15.8	18.0	18.4	15.8	16.8	.
20	MFH17-32	14.3	28.1	12.9	.	.	17.5	23.6	19.7	13.8	.	18.0	18.8	15.7	.	.
21	MFH17-33	14.8	29.8	12.8	27.3	21.1	17.4	20.8	19.6	14.6	17.9	18.0	19.2	16.1	18.0	.
22	MM2034	14.4	27.9	14.2	27.2	20.9	18.1	19.9	20.9	15.4	16.8	18.0	18.9	16.0	18.1	20.5
23	MM9333	13.5	27.8	13.3	27.8	20.4	19.2	18.6	18.5	14.5	17.2	18.0	19.2	16.3	17.7	20.6
24	NMH713(C)	15.8	27.9	13.6	26.4	21.0	20.7	21.0	20.4	14.7	17.0	18.0	18.4	16.7	18.4	20.7
25	P3522 (C)	16.0	28.3	14.9	26.2	21.2	20.7	14.3	22.8	14.4	17.2	18.0	18.7	16.6	18.1	20.0

Table No. 1: (Contd.)

Moisture%

S. No.	Entry Name	NWPZ (Zone-II)					PZ (Zone-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	PM17201L	14.2	27.4	13.9	27.3	20.6	20.7	18.0	17.8	12.8	15.3	18.0	18.3	16.0	17.0	20.1
27	PM17202L	14.1	26.7	13.3	25.4	19.7	18.5	27.0	16.1	13.2	15.9	18.0	18.8	15.7	17.8	19.6
28	PM17203L	13.7	27.9	13.2	26.3	20.2	20.4	21.6	22.1	13.7	18.3	18.0	19.4	16.4	18.8	21.0
29	PM17204L	15.4	29.5	13.2	25.7	21.3	20.2	18.0	18.2	13.5	17.8	18.0	18.9	16.5	17.6	20.1
30	PM17205L	15.2	28.6	13.2	27.2	20.9	18.9	21.1	16.0	13.8	17.3	18.0	19.2	15.8	17.6	20.3
31	PM17206L	15.0	28.5	12.7	27.5	20.9	19.2	23.6	17.2	14.6	17.9	18.0	18.0	15.8	18.0	20.1
32	PM17208L	16.1	29.0	14.2	26.9	21.5	20.0	20.7	17.0	13.7	17.6	18.0	18.6	15.5	17.6	20.4
33	REH2016-3	14.9	28.8	14.0	28.2	21.6	19.1	22.8	20.4	14.7	15.4	18.0	19.0	15.4	18.0	20.8
34	Rasi 3486(W)	15.2	26.9	13.5	26.9	20.7	20.0	20.0	18.6	13.7	17.1	18.0	19.2	16.4	18.0	20.1
35	Rasi 4118	13.9	28.5	13.5	27.1	21.0	20.7	25.6	19.4	15.0	16.9	18.0	18.8	15.9	18.7	21.1
	Location Mean	14.8	28.4	13.6	27.1	20.9	19.4	21.2	19.6	14.1	17.3	18.0	18.8	16.2	18.1	20.5
	CV (%)	7.0	5.0	3.6	4.7	5.3	3.2	11.4	7.6	3.7	4.2	0.0	4.0	3.9	6.2	5.7
	F (Prob)	0.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.	0.2	0.0	0.0	0.0
	CD (5%)	1.7	2.3	0.8	2.1	0.9	1.0	4.0	2.4	0.9	1.2	0.0	1.2	1.0	0.7	0.4
	CD (1%)	2.3	3.1	1.1	2.8	1.2	1.3	5.3	3.2	1.1	1.6	0.0	1.6	1.4	0.9	0.5

Table No. 1: NIVT (Late Maturity)

Final Plant Stand (000/ha)

S. No.	Entry Name	CWZ (Zone-V)			NEPZ (Zone-III)						
		BANS	GODH	MEAN	VARA	BAHA	BHUB	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7043	31	34	33	32	40	40	40	37	36	37
2	ADV 7164	33	36	35	40	35	38	39	38	33	37
3	Bio 302	34	35	34	37	32	39	39	35	37	36
4	DAS-MH-905	33	35	34	36	34	41	40	37	36	37
5	DAS-MH-906	34	38	36	39	36	39	40	38	34	38
6	DAS-MH-907	37	33	35	35	37	39	39	37	35	37
7	DKC9195 (IS8508)	38	38	38	39	34	39	40	35	32	37
8	DKC9197 (IS8638)	35	36	35	38	36	41	39	39	35	38
9	GK3212	34	38	36	38	34	39	39	36	37	37
10	GK3214	33	34	33	40	32	39	39	36	34	37
11	IMHSB-17R-13	32	35	34	38	33	39	39	38	38	38
12	IMHSB-17R-18	34	32	33	40	32	38	40	35	35	37
13	IMHSB-17R-21	31	36	33	39	31	39	41	30	35	36
14	IMHSB-17R-22	33	36	34	38	36	40	41	36	34	37
15	IMHSB-17R-23	34	40	36	39	32	40	39	35	31	36
16	KH-2595	32	37	35	33	35	39	39	37	34	36
17	KMH25K45(C)	35	35	36	38	36	40	40	36	35	38
18	Kh-2597	32	36	34	39	35	40	40	37	33	37
19	MFH17-31	29	29	29	32	32	39	40	6	37	31
20	MFH17-32	4	33	18	22	35	39	37	2	33	28
21	MFH17-33	26	34	30	31	37	39	39	11	30	31
22	MM2034	34	36	35	34	34	40	22	37	34	33
23	MM9333	32	34	33	37	32	40	37	37	37	36
24	NMH713(C)	38	33	35	36	35	41	40	39	34	38
25	P3522 (C)	37	40	38	39	38	39	40	38	34	38

Table No. 1: NIVT (Late Maturity)

Final Plant Stand (000/ha)

S. No.	Entry Name	CWZ (Zone-V)			NEPZ (Zone-III)						
		BANS	GODH	MEAN	VARA	BAHA	BHUB	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	PM17201L	33	33	34	38	36	39	40	35	37	38
27	PM17202L	33	33	34	39	37	43	33	37	39	38
28	PM17203L	33	36	34	38	34	40	40	39	33	37
29	PM17204L	36	39	37	37	36	40	39	36	34	37
30	PM17205L	34	36	34	40	37	39	40	40	32	38
31	PM17206L	33	37	35	39	34	39	40	38	33	37
32	PM17208L	35	36	36	39	34	40	40	36	35	38
33	REH2016-3	33	33	33	37	31	39	39	36	31	36
34	Rasi 3486(W)	33	38	35	40	35	39	40	35	36	37
35	Rasi 4118	34	33	34	39	33	42	39	36	38	38
	Location Mean	33	35	34	37	35	40	39	34	35	36
	CV (%)	8.3	8.4	8.4	7.6	8.4	3.5	7.4	9.0	8.1	7.4
	F (Prob)	0	0.05	0	0	0.19	0.14	0	0	0.09	0
	CD (5%)	4.4	4.9	3.4	4.6	4.8	2.3	4.7	5.0	4.6	1.8
	CD (1%)	5.9	6.5	4.5	6.2	6.3	3.0	6.2	6.7	6.1	2.3

Table No. 1: (Contd.)

Final Plant Stand (000/ha)

S. No.	Entry Name	NWPZ (Zone-II)			PZ (ZONE-IV)									All India
		KARN	PANT	ZONE	COIM	DHAR	ZONE	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7043	40	40	40	34	38	39	39	34	37	38	31	36	37
2	ADV 7164	40	39	40	32	38	41	40	32	36	39	32	36	37
3	Bio 302	41	37	39	33	35	40	37	31	36	37	31	35	36
4	DAS-MH-905	40	39	40	33	39	40	38	34	37	36	32	36	37
5	DAS-MH-906	40	40	40	32	34	40	40	32	38	35	31	35	37
6	DAS-MH-907	40	39	39	32	38	40	38	33	38	37	31	36	37
7	DKC9195 (IS8508)	41	38	39	32	36	39	39	32	35	35	30	35	36
8	DKC9197 (IS8638)	39	39	40	33	37	40	39	33	34	37	32	35	37
9	GK3212	40	40	40	33	36	40	39	33	36	40	31	36	37
10	GK3214	40	39	39	32	36	40	39	33	34	39	32	36	36
11	IMHSB-17R-13	41	18	29	32	34	40	38	33	34	35	30	34	35
12	IMHSB-17R-18	40	32	36	34	34	40	39	36	34	37	31	36	36
13	IMHSB-17R-21	35	33	34	34	33	40	37	34	32	36	30	34	35
14	IMHSB-17R-22	39	38	39	32	35	40	38	32	37	34	31	35	36
15	IMHSB-17R-23	40	22	31	33	34	40	39	33	36	39	30	35	35
16	KH-2595	40	38	39	33	37	40	39	33	37	39	31	36	36
17	KMH25K45(C)	41	40	40	32	40	40	39	34	37	40	31	36	37
18	Kh-2597	40	39	40	33	34	40	40	32	37	38	30	35	36
19	MFH17-31	26	4	16	32	32	37	38	32	34	32	30	34	30
20	MFH17-32	15	0	9	32	20	39	38	32	30	31	29	31	26
21	MFH17-33	24	6	15	33	29	38	39	33	35	35	28	34	30
22	MM2034	40	38	39	32	36	39	38	33	31	36	30	34	35
23	MM9333	40	38	39	33	34	40	40	34	35	36	31	35	36
24	NMH713(C)	40	38	39	33	36	40	39	32	33	37	30	35	36
25	P3522 (C)	40	38	39	33	37	40	39	32	37	39	31	36	37

Table No. 1: (Contd.)

Final Plant Stand (000/ha)

S. No.	Entry Name	NWPZ (Zone-II)			PZ (ZONE-IV)									
		KARN	PANT	ZONE	COIM	DHAR	ZONE	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	PM17201L	40	40	40	32	37	40	39	34	37	38	31	36	37
27	PM17202L	40	39	40	33	36	40	39	34	39	37	31	36	37
28	PM17203L	40	39	40	33	37	40	39	35	36	35	31	36	37
29	PM17204L	41	38	39	32	39	40	39	35	35	36	31	36	37
30	PM17205L	40	41	40	31	37	40	38	33	37	39	31	36	37
31	PM17206L	39	40	40	33	35	40	40	32	35	36	32	35	36
32	PM17208L	40	39	39	32	35	40	39	34	36	35	31	35	37
33	REH2016-3	39	38	39	32	35	40	39	33	37	34	29	35	35
34	Rasi 3486(W)	40	40	40	33	38	39	38	33	36	36	30	36	37
35	Rasi 4118	41	39	40	32	39	40	38	32	36	36	30	35	36
	Location Mean	38	34	36	33	36	40	39	33	36	37	31	35	36
	CV (%)	5.1	8.0	6.4	2.3	9.0	1.6	3.2	5.7	7.7	6.0	4.4	5.5	6.7
	F (Prob)	0	0	0	0.05	0	0	0.32	0.74	0.11	0.02	0.43	0	0
	CD (5%)	3.2	4.5	2.7	1.3	5.2	1.0	2.0	3.1	4.5	3.6	2.2	1.2	0.9
	CD (1%)	4.3	6.0	3.5	1.7	6.9	1.4	2.7	4.1	6.0	4.8	2.9	1.5	1.2

Table No. 1: NIVT (Late Maturity)

Days to 50% Anthesis

S. No.	Entry Name	CWZ (Zone-V)			NEPZ (Zone-III)							
		BANS	GODH	MEAN	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7043	90	86	88	117	135	73	128	80	84	106	103
2	ADV 7164	89	82	86	114	134	71	128	79	83	104	102
3	Bio 302	90	81	85	113	133	72	127	79	81	104	101
4	DAS-MH-905	90	82	86	111	130	73	126	79	79	101	100
5	DAS-MH-906	90	81	86	113	131	72	127	79	81	102	101
6	DAS-MH-907	89	81	86	115	132	71	128	80	82	103	102
7	DKC9195 (IS8508)	91	84	87	115	134	74	126	79	83	103	102
8	DKC9197 (IS8638)	90	82	86	115	135	73	127	79	84	104	102
9	GK3212	92	81	87	112	129	72	130	79	80	101	100
10	GK3214	90	80	85	113	130	72	124	79	80	101	100
11	IMHSB-17R-13	89	86	87	115	134	75	127	79	84	105	103
12	IMHSB-17R-18	91	85	88	116	134	74	126	79	82	103	102
13	IMHSB-17R-21	90	86	88	115	133	74	124	79	83	107	102
14	IMHSB-17R-22	90	84	87	112	131	72	126	78	82	105	101
15	IMHSB-17R-23	90	83	87	115	135	73	123	80	82	107	102
16	KH-2595	90	82	86	112	131	73	127	80	81	102	101
17	KMH25K45(C)	89	81	85	112	134	73	126	80	82	103	101
18	Kh-2597	91	83	87	111	131	71	124	79	80	104	100
19	MFH17-31	91	80	85	107	128	71	123	80	.	98	.
20	MFH17-32	89	85	87	115	132	75	127	80	.	101	.
21	MFH17-33	90	84	87	115	133	74	125	79	.	106	.
22	MM2034	91	83	87	116	134	73	126	79	84	106	102
23	MM9333	91	83	87	115	135	72	128	79	81	104	102
24	NMH713(C)	92	84	88	112	131	72	123	79	81	104	100
25	P3522 (C)	90	81	86	112	134	73	126	80	81	105	102

Table No. 1: NIVT (Late Maturity)

Days to 50% Anthesis

S. No.	Entry Name	CWZ (Zone-V)			NEPZ (Zone-III)							
		BANS	GODH	MEAN	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	PM17201L	89	80	85	110	128	72	127	80	79	101	99
27	PM17202L	89	79	84	108	126	71	125	79	79	99	98
28	PM17203L	90	82	86	112	132	73	126	80	82	102	101
29	PM17204L	89	79	85	111	131	73	124	78	82	102	100
30	PM17205L	90	77	84	110	130	72	124	80	79	102	100
31	PM17206L	91	80	85	110	131	71	124	78	78	102	99
32	PM17208L	90	83	87	111	131	71	125	78	82	104	100
33	REH2016-3	89	83	86	115	134	73	128	79	82	104	102
34	Rasi 3486(W)	90	84	87	116	134	73	127	80	83	105	102
35	Rasi 4118	89	80	84	113	133	72	127	79	80	105	101
	Location Mean	90	82	86	113	132	73	126	79	81	103	101
	CV (%)	1.3	2.3	1.8	0.8	1.4	1.6	2.1	1.1	1.6	1.0	1.5
	F (Prob)	0.54	0	0	0	0	0.01	0.35	0.51	0	0	0
	CD (5%)	1.9	3.1	1.9	1.5	3.0	1.9	4.2	1.4	2.1	1.7	1.0
	CD (1%)	2.5	4.1	2.5	2.0	4.0	2.6	5.6	1.8	2.8	2.2	1.3

Table No. 1: (Contd.)

Days to 50% Anthesis

S. No.	Entry Name	NWPZ (Zone-II)					PZ (Zone-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7043	96	65	87	115	91	59	73	79	72	74	64	89	57	71	87
2	ADV 7164	98	64	86	113	90	59	75	79	73	71	62	85	56	70	86
3	Bio 302	98	64	86	113	91	58	72	79	73	71	64	85	56	70	86
4	DAS-MH-905	97	61	80	110	87	56	70	78	70	69	59	82	54	67	84
5	DAS-MH-906	99	62	82	111	88	57	69	78	71	69	60	83	55	68	84
6	DAS-MH-907	98	66	84	114	90	57	74	81	76	72	61	84	56	70	86
7	DKC9195 (IS8508)	98	65	85	113	91	58	73	80	77	72	63	87	54	70	86
8	DKC9197 (IS8638)	96	65	86	113	90	59	74	80	71	72	63	85	56	70	86
9	GK3212	99	65	84	110	89	57	70	79	73	70	59	83	55	68	85
10	GK3214	97	62	83	110	88	57	70	79	73	69	59	84	55	68	84
11	IMHSB-17R-13	100	66	85	112	91	60	75	80	73	72	63	86	57	71	87
12	IMHSB-17R-18	98	66	86	113	91	57	72	80	77	70	60	88	55	70	86
13	IMHSB-17R-21	96	65	86	112	90	59	74	79	71	73	63	86	56	70	86
14	IMHSB-17R-22	96	64	85	112	89	58	72	78	69	70	59	86	56	69	85
15	IMHSB-17R-23	99	65	86	112	91	60	71	82	72	70	64	89	57	71	87
16	KH-2595	97	64	82	112	89	57	71	80	71	69	59	83	53	68	85
17	KMH25K45(C)	98	65	82	111	89	58	72	79	72	70	61	86	55	69	85
18	Kh-2597	98	63	84	112	89	58	73	79	72	70	61	83	53	69	85
19	MFH17-31	95	60	80	107	86	56	71	77	69	67	57	82	53	66	.
20	MFH17-32	98	64	87	.	.	59	73	80	55	71	61	88	55	67	.
21	MFH17-33	98	62	85	112	89	58	73	80	74	70	60	86	55	70	.
22	MM2034	100	67	88	113	92	59	74	79	72	72	61	87	57	70	87
23	MM9333	97	65	84	115	90	59	73	79	70	71	61	87	56	70	86
24	NMH713(C)	98	64	85	112	90	57	70	80	76	70	60	86	56	69	85
25	P3522 (C)	96	65	86	112	90	58	72	80	71	72	62	85	55	70	86

Table No. 1: (Contd.)

Days to 50% Anthesis

S. No.	Entry Name	NWPZ (Zone-II)					PZ (Zone-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	PM17201L	100	62	79	108	87	55	69	78	71	67	58	79	53	66	83
27	PM17202L	100	64	81	107	88	55	72	77	69	67	56	79	52	66	83
28	PM17203L	102	63	83	112	90	57	72	80	73	69	60	84	55	69	85
29	PM17204L	97	61	83	110	88	56	74	77	74	70	60	85	54	68	84
30	PM17205L	97	60	82	111	88	57	71	76	71	69	59	83	53	68	84
31	PM17206L	99	60	82	109	88	55	71	77	72	68	59	83	52	67	84
32	PM17208L	101	64	84	114	91	58	71	79	74	69	60	84	54	69	85
33	REH2016-3	99	60	84	114	89	59	72	79	72	69	62	88	56	70	86
34	Rasi 3486(W)	97	66	85	113	90	58	74	80	74	72	60	88	55	70	86
35	Rasi 4118	98	64	82	112	89	58	74	78	74	70	59	87	55	69	85
	Location Mean	98	64	84	112	89	58	72	79	72	70	60	85	55	69	85
	CV (%)	2.0	3.3	2.4	1.3	2.1	1.7	2.5	1.7	7.9	1.6	2.2	1.7	1.6	3.4	2.3
	F (Prob)	0.11	0	0	0	0	0	0.02	0	0.57	0	0	0	0	0	0
	CD (5%)	3.1	3.4	3.3	2.4	1.6	1.6	2.9	2.1	9.3	1.9	2.2	2.4	1.5	1.4	0.7
	CD (1%)	4.2	4.5	4.4	3.2	2.1	2.1	3.9	2.9	12.4	2.5	2.9	3.2	2.0	1.8	0.9

Table No. 1: NIVT (Late Maturity)

Days to 50% Silking

S. No.	Entry Name	CWZ (Zone-V)			NEPZ (Zone-III)							
		BANS	GODH	MEAN	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7043	94	88	91	118	137	76	131	82	88	110	106
2	ADV 7164	93	84	89	116	136	74	131	81	87	108	105
3	Bio 302	93	84	89	114	134	75	131	81	84	108	104
4	DAS-MH-905	94	84	89	112	132	76	129	82	83	105	103
5	DAS-MH-906	94	83	89	114	132	75	129	81	84	106	103
6	DAS-MH-907	93	85	89	117	135	74	132	82	87	107	105
7	DKC9195 (IS8508)	93	87	90	116	135	77	130	81	87	107	105
8	DKC9197 (IS8638)	93	85	89	116	136	76	131	82	85	108	105
9	GK3212	92	83	88	114	130	75	133	81	84	106	103
10	GK3214	94	83	88	114	132	75	127	82	83	106	103
11	IMHSB-17R-13	93	89	91	117	137	77	131	83	88	109	106
12	IMHSB-17R-18	95	88	92	117	135	78	129	81	86	107	105
13	IMHSB-17R-21	94	88	91	116	136	76	127	82	87	109	105
14	IMHSB-17R-22	93	86	90	113	132	74	129	80	87	108	104
15	IMHSB-17R-23	93	86	90	117	136	76	127	82	87	110	105
16	KH-2595	94	86	90	115	133	76	130	81	85	106	104
17	KMH25K45(C)	93	83	88	114	136	76	130	83	86	107	104
18	Kh-2597	94	85	90	112	132	74	127	82	84	109	103
19	MFH17-31	94	82	88	109	131	74	126	82	.	105	.
20	MFH17-32	93	88	90	116	134	78	130	83	.	107	.
21	MFH17-33	94	86	90	116	134	77	129	81	.	110	.
22	MM2034	93	86	90	117	136	75	130	81	87	109	105
23	MM9333	94	85	90	117	137	75	131	80	84	108	105
24	NMH713(C)	95	86	91	113	133	75	127	81	85	107	103
25	P3522 (C)	94	84	89	113	135	76	129	81	84	108	104

Table No. 1: NIVT (Late Maturity)

Days to 50% Silking

S. No.	Entry Name	CWZ (Zone-V)			NEPZ (Zone-III)							
		BANS	GODH	MEAN	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	PM17201L	93	82	88	113	130	75	130	83	82	105	102
27	PM17202L	93	82	87	109	128	73	128	82	82	103	101
28	PM17203L	94	84	89	113	134	75	129	81	85	106	104
29	PM17204L	93	82	88	112	133	74	127	82	85	106	103
30	PM17205L	94	79	87	111	131	75	127	83	84	105	102
31	PM17206L	94	82	88	111	133	75	127	80	82	106	102
32	PM17208L	94	85	90	113	133	74	128	80	86	108	103
33	REH2016-3	94	86	90	116	136	76	132	81	86	108	105
34	Rasi 3486(W)	93	86	89	117	136	76	130	82	87	108	105
35	Rasi 4118	93	82	88	114	136	75	130	82	84	108	104
	Location Mean	94	85	89	114	134	75	129	82	85	107	104
	CV (%)	1.1	2.2	1.7	0.9	1.3	1.7	1.9	1.2	2.0	0.8	1.5
	F (Prob)	0.31	0	0	0	0	0.02	0.25	0.11	0	0	0
	CD (5%)	1.7	3.1	1.9	1.8	2.9	2.1	4.0	1.6	2.8	1.4	1.0
	CD (1%)	2.3	4.1	2.5	2.3	3.9	2.8	5.3	2.1	3.7	1.9	1.3

Table No. 1: (Contd.)

Days to 50% Silking

S. No.	Entry Name	NWPZ (Zone-II)					PZ (Zone-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7043	99	68	87	119	93	63	75	82	76	76	66	90	60	74	90
2	ADV 7164	102	67	86	117	93	62	76	82	75	75	64	87	60	73	89
3	Bio 302	101	68	87	116	93	62	74	82	75	75	66	87	60	73	88
4	DAS-MH-905	101	64	81	114	90	59	71	81	73	73	61	83	57	70	86
5	DAS-MH-906	103	65	84	115	92	60	72	81	73	73	62	84	58	70	87
6	DAS-MH-907	103	69	85	118	94	61	75	84	74	77	63	86	59	72	89
7	DKC9195 (IS8508)	102	70	87	117	94	61	74	83	75	75	65	88	57	72	89
8	DKC9197 (IS8638)	100	68	88	117	93	63	74	83	75	74	65	87	58	73	89
9	GK3212	103	67	85	114	92	62	73	82	75	74	61	85	58	71	87
10	GK3214	100	65	84	114	91	61	73	82	75	72	61	86	57	71	87
11	IMHSB-17R-13	102	70	86	116	94	63	75	83	75	75	65	88	61	73	90
12	IMHSB-17R-18	103	69	86	116	93	61	73	83	75	76	62	90	58	72	89
13	IMHSB-17R-21	101	68	87	116	93	63	75	82	75	76	65	88	59	73	89
14	IMHSB-17R-22	100	67	85	116	92	62	74	81	74	74	61	86	58	71	88
15	IMHSB-17R-23	103	67	89	115	94	64	72	84	74	77	66	90	61	74	89
16	KH-2595	101	67	84	116	92	61	73	83	75	74	61	86	56	71	88
17	KMH25K45(C)	102	68	84	115	92	62	73	82	74	73	63	88	58	72	88
18	Kh-2597	101	66	86	116	93	62	74	82	74	73	63	86	57	71	88
19	MFH17-31	99	63	82	111	89	60	73	79	73	71	59	83	56	69	.
20	MFH17-32	102	67	87	.	.	62	75	83	81	74	63	89	59	73	.
21	MFH17-33	104	65	86	114	92	62	74	83	76	74	62	88	59	72	.
22	MM2034	104	70	89	116	94	63	76	83	75	75	63	89	60	73	89
23	MM9333	101	68	85	119	93	63	75	82	74	73	63	89	59	72	89
24	NMH713(C)	103	67	85	115	92	61	73	83	74	75	62	87	60	72	88
25	P3522 (C)	100	68	87	114	92	62	74	83	74	75	64	85	57	72	88

Table No. 1: (Contd.)

Days to 50% Silking

S. No.	Entry Name	NWPZ (Zone-II)					PZ (Zone-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	PM17201L	104	65	82	111	91	59	71	81	74	71	60	80	56	69	86
27	PM17202L	104	67	80	110	90	59	73	80	73	71	58	80	55	69	85
28	PM17203L	105	66	84	115	92	61	73	83	75	73	62	85	59	71	88
29	PM17204L	102	64	84	115	91	60	75	80	72	73	62	87	57	71	87
30	PM17205L	101	63	81	114	90	61	72	79	73	73	61	83	56	70	86
31	PM17206L	103	63	83	112	90	58	72	80	76	73	61	84	56	70	86
32	PM17208L	104	68	84	118	93	61	73	82	76	73	62	86	57	71	88
33	REH2016-3	103	64	86	117	93	63	74	82	76	72	64	90	59	72	89
34	Rasi 3486(W)	101	69	87	116	93	61	75	83	73	74	62	89	58	72	89
35	Rasi 4118	103	67	84	116	92	63	75	81	76	74	61	88	59	72	88
	Location Mean	102	67	85	115	92	61	74	82	75	74	62	87	58	72	88
	CV (%)	1.9	3.2	2.3	1.4	2.1	1.3	2.4	1.7	2.2	2.8	2.1	1.9	1.6	2.1	1.8
	F (Prob)	0.09	0	0	0	0	0	0.13	0	0.01	0.04	0	0	0	0	0
	CD (5%)	3.2	3.5	3.2	2.6	1.6	1.3	2.9	2.3	2.7	3.3	2.2	2.6	1.6	0.9	0.6
	CD (1%)	4.2	4.7	4.2	3.4	2.2	1.7	3.9	3.1	3.6	4.5	2.9	3.5	2.1	1.2	0.8

Table No. 1: NIVT (Late Maturity)

Days to 75% Dry Husk

S. No.	Entry Name	CWZ (Zone-V)			NEPZ (Zone-III)							
		BANS	GODH	MEAN	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7043	125	120	122	152	165	118	171	125	123	153	144
2	ADV 7164	124	114	119	152	166	117	171	127	123	151	144
3	Bio 302	126	115	120	151	163	118	171	125	121	151	143
4	DAS-MH-905	126	114	119	149	163	116	170	127	120	148	142
5	DAS-MH-906	125	111	119	149	162	115	170	126	121	148	142
6	DAS-MH-907	125	115	120	152	164	117	171	125	122	148	143
7	DKC9195 (IS8508)	124	118	121	152	164	117	170	126	123	151	143
8	DKC9197 (IS8638)	124	113	118	152	166	119	172	127	124	151	145
9	GK3212	123	114	118	150	162	119	171	125	120	151	142
10	GK3214	125	113	119	151	161	117	171	125	119	149	142
11	IMHSB-17R-13	125	120	122	152	165	116	171	127	124	153	144
12	IMHSB-17R-18	127	120	123	152	165	118	170	125	123	150	143
13	IMHSB-17R-21	127	120	123	151	164	118	169	125	122	152	143
14	IMHSB-17R-22	125	119	123	151	162	118	171	125	121	153	143
15	IMHSB-17R-23	125	114	119	151	164	117	170	125	123	148	143
16	KH-2595	126	116	121	151	164	118	170	125	123	151	143
17	KMH25K45(C)	126	114	119	150	165	118	170	126	124	152	144
18	Kh-2597	128	115	121	150	164	117	171	125	120	151	143
19	MFH17-31	125	111	118	146	161	115	168	126	.	148	.
20	MFH17-32	124	121	123	152	163	118	171	126	.	151	.
21	MFH17-33	125	117	121	152	160	119	172	124	.	153	.
22	MM2034	124	106	116	150	165	115	171	126	124	152	143
23	MM9333	126	115	121	151	166	118	171	126	121	151	143
24	NMH713(C)	128	117	123	151	163	118	171	126	122	150	143
25	P3522 (C)	125	112	119	149	165	116	170	127	122	152	143

Table No. 1: NIVT (Late Maturity)

Days to 75% Dry Husk

S. No.	Entry Name	CWZ (Zone-V)			NEPZ (Zone-III)							
		BANS	GODH	MEAN	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	PM17201L	124	113	118	148	161	115	169	128	119	150	141
27	PM17202L	122	113	118	148	159	117	169	126	121	147	141
28	PM17203L	126	113	120	150	163	117	170	126	123	150	143
29	PM17204L	124	113	118	148	164	118	169	126	122	150	142
30	PM17205L	125	110	117	148	160	116	168	125	121	150	141
31	PM17206L	126	112	118	149	164	119	171	126	121	152	143
32	PM17208L	126	116	121	148	162	116	169	125	122	152	142
33	REH2016-3	126	117	122	152	164	119	171	125	122	154	144
34	Rasi 3486(W)	125	108	117	152	165	118	171	124	124	151	144
35	Rasi 4118	124	113	118	150	164	118	171	125	120	152	143
	Location Mean	125	115	120	150	163	117	170	126	122	151	143
	CV (%)	1.2	3.9	2.8	0.7	1.1	1.0	0.8	1.1	1.6	1.1	1.0
	F (Prob)	0.09	0.07	0	0	0	0	0.08	0.73	0.07	0	0
	CD (5%)	2.5	7.3	4.0	1.7	3.0	1.8	2.2	2.2	3.2	2.6	1.0
	CD (1%)	3.4	9.7	5.3	2.3	4.0	2.5	2.9	3.0	4.2	3.5	1.3

Table No. 1: (Contd.)

Days to 75% Dry Husk

S. No.	Entry Name	NWPZ (Zone-II)					PZ (Zone-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7043	146	131	122	151	137	98	111	120	119	116	111	129	99	113	129
2	ADV 7164	146	131	123	151	138	97	110	120	118	115	109	127	99	112	128
3	Bio 302	145	130	125	149	138	97	111	120	118	115	111	126	99	112	128
4	DAS-MH-905	146	129	119	152	136	94	108	119	116	113	106	123	96	109	126
5	DAS-MH-906	150	129	120	152	137	95	109	119	116	113	107	125	97	110	127
6	DAS-MH-907	146	132	120	150	137	96	111	122	118	117	108	128	97	112	128
7	DKC9195 (IS8508)	143	131	123	151	137	95	111	120	119	115	110	124	96	111	128
8	DKC9197 (IS8638)	146	131	123	151	138	97	110	121	118	114	110	128	98	112	128
9	GK3212	145	131	120	150	137	96	109	120	118	114	106	124	97	110	127
10	GK3214	146	129	122	149	137	95	109	119	118	112	107	128	96	111	127
11	IMHSB-17R-13	144	132	123	150	137	97	111	120	118	115	110	127	101	113	129
12	IMHSB-17R-18	141	132	121	150	136	95	110	120	119	116	107	129	98	112	128
13	IMHSB-17R-21	142	131	124	150	137	97	111	120	117	116	110	130	98	112	128
14	IMHSB-17R-22	147	130	125	150	138	97	111	119	117	114	106	129	97	111	128
15	IMHSB-17R-23	150	131	122	149	138	98	107	122	117	117	110	126	100	112	128
16	KH-2595	144	131	122	149	137	96	110	120	118	114	106	127	96	111	127
17	KMH25K45(C)	147	131	122	151	138	97	110	120	117	113	108	127	98	111	128
18	Kh-2597	148	129	123	150	138	96	111	119	118	113	108	126	97	111	128
19	MFH17-31	146	127	119	151	136	95	111	117	116	111	105	125	96	109	.
20	MFH17-32	144	130	124	.	.	97	111	120	120	114	108	128	98	112	.
21	MFH17-33	146	128	124	152	138	97	110	121	119	114	108	127	98	112	.
22	MM2034	145	133	124	149	138	97	110	119	118	115	108	129	100	112	128
23	MM9333	147	131	121	153	138	97	113	120	117	113	107	130	99	112	128
24	NMH713(C)	143	130	121	151	136	96	110	120	118	115	107	125	99	111	128
25	P3522 (C)	145	131	121	153	137	96	110	121	117	115	109	125	97	111	127

Table No. 1: (Contd.)

Days to 75% Dry Husk

S. No.	Entry Name	NWPZ (Zone-II)					PZ (Zone-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	PM17201L	147	129	121	151	137	94	107	119	117	111	105	123	95	109	126
27	PM17202L	146	130	122	150	137	94	109	118	116	111	103	123	96	109	126
28	PM17203L	145	129	121	152	137	96	110	120	118	113	107	126	97	111	127
29	PM17204L	141	129	121	150	135	96	111	118	116	113	107	124	96	110	126
30	PM17205L	146	127	121	152	137	95	109	118	116	113	106	125	96	110	126
31	PM17206L	145	127	123	150	136	94	109	118	119	113	106	127	96	110	127
32	PM17208L	147	131	120	151	138	96	109	120	119	113	107	128	97	111	127
33	REH2016-3	149	128	124	152	138	98	112	119	119	112	109	129	99	112	129
34	Rasi 3486(W)	145	132	121	150	137	95	111	120	116	114	107	125	97	111	127
35	Rasi 4118	142	130	122	152	137	97	111	119	119	114	106	127	98	111	127
	Location Mean	146	130	122	151	137	96	110	120	118	114	108	127	98	111	127
	CV (%)	1.5	1.3	1.3	1.2	1.3	1.0	1.9	1.0	1.0	1.8	1.4	1.3	1.0	1.4	1.4
	F (Prob)	0	0	0	0.46	0	0	0.64	0.01	0	0.04	0	0	0	0	0
	CD (5%)	3.5	2.7	2.7	2.9	1.6	1.5	3.5	2.0	1.9	3.3	2.5	2.6	1.6	0.9	0.7
	CD (1%)	4.7	3.6	3.5	3.8	2.1	2.1	4.6	2.6	2.5	4.5	3.3	3.5	2.1	1.2	0.9

Table No. 1: NIVT (Late Maturity)

Plant Height **Plant Height**

S. No.	Entry Name	CWZ (Zone-V)			NEPZ (Zone-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7043	254	193	225	170	172	209	202	285	211	211	207
2	ADV 7164	263	197	230	183	189	206	182	280	211	229	212
3	Bio 302	279	195	233	197	197	205	236	303	220	255	231
4	DAS-MH-905	260	198	231	182	179	206	208	290	226	245	217
5	DAS-MH-906	261	203	233	180	185	213	195	307	219	243	220
6	DAS-MH-907	255	196	226	180	195	219	199	292	196	227	216
7	DKC9195 (IS8508)	283	198	238	201	204	238	236	301	219	258	237
8	DKC9197 (IS8638)	261	198	232	202	196	226	210	276	217	250	226
9	GK3212	251	197	223	176	186	208	209	275	228	219	215
10	GK3214	263	198	230	173	187	206	197	280	210	208	208
11	IMHSB-17R-13	261	210	233	174	196	210	209	264	195	236	213
12	IMHSB-17R-18	205	202	202	161	192	202	186	290	170	199	201
13	IMHSB-17R-21	240	207	224	164	177	198	200	307	197	223	209
14	IMHSB-17R-22	230	197	216	170	174	207	190	284	190	228	207
15	IMHSB-17R-23	281	197	237	174	208	222	190	298	192	241	217
16	KH-2595	250	180	216	174	197	211	223	292	184	252	218
17	KMH25K45(C)	286	198	240	191	202	209	216	284	142	245	213
18	Kh-2597	267	191	228	182	196	206	215	288	205	236	219
19	MFH17-31	207	190	199	159	160	197	209	291	.	216	.
20	MFH17-32	237	193	217	156	159	193	169	293	.	225	.
21	MFH17-33	232	187	207	170	183	206	192	271	.	202	.
22	MM2034	257	191	226	170	172	221	197	276	207	225	211
23	MM9333	243	183	214	161	176	208	189	279	222	230	208
24	NMH713(C)	268	194	230	176	205	217	164	305	212	206	212
25	P3522 (C)	266	194	230	211	191	227	216	314	236	263	238

Table No. 1: NIVT (Late Maturity)

Plant Height **Plant Height**

S. No.	Entry Name	CWZ (Zone-V)			NEPZ (Zone-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	PM17201L	253	194	224	184	190	210	223	293	224	243	222
27	PM17202L	245	190	220	171	185	197	197	290	211	251	213
28	PM17203L	274	193	233	200	224	200	220	333	222	245	234
29	PM17204L	254	199	226	179	196	204	218	285	187	245	218
30	PM17205L	288	193	240	211	197	211	229	318	218	270	236
31	PM17206L	236	200	217	171	189	210	218	295	206	241	219
32	PM17208L	260	195	227	189	206	219	222	313	225	250	232
33	REH2016-3	243	190	218	182	194	213	201	309	194	237	218
34	Rasi 3486(W)	270	203	237	184	184	210	212	306	205	248	223
35	Rasi 4118	276	187	231	200	197	220	228	269	217	267	229
	Z1Location Mean	256	195	226	180	190	210	206	292	206	236	217
	Z2CV (%)	6.8	4.2	6.0	4.4	4.7	3.5	6.9	8.1	14.1	6.1	7.7
	Z3F (Prob)	0	0.14	0	0	0	0	0	0.4	0.41	0	0
	Z4CD (5%)	28.6	13.3	16.4	12.9	14.5	11.9	23.2	38.8	47.7	23.6	10.7
	Z5CD (1%)	38.0	17.7	21.7	17.1	19.4	15.9	30.9	51.6	63.6	31.4	14.1

Table No. 1: (Contd.)

Plant Height **Plant Height**

S. No.	Entry Name	NWPZ (Zone-II)					PZ (Zone-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7043	184	193	188	210	193	189	179	172	162	220	197	264	204	199	203
2	ADV 7164	193	194	166	216	193	191	187	203	184	235	194	279	200	210	209
3	Bio 302	191	204	206	222	204	217	201	181	176	237	216	296	209	217	221
4	DAS-MH-905	200	199	189	211	201	203	182	182	176	219	208	289	191	206	211
5	DAS-MH-906	192	189	198	217	200	212	191	193	167	223	249	290	202	216	216
6	DAS-MH-907	196	185	194	214	199	193	185	175	163	216	237	287	201	207	210
7	DKC9195 (IS8508)	191	210	207	241	212	226	200	194	192	252	231	302	195	225	228
8	DKC9197 (IS8638)	194	211	211	231	213	217	210	194	193	233	253	312	209	227	224
9	GK3212	197	187	183	213	193	191	182	182	160	235	226	264	204	206	208
10	GK3214	199	189	196	212	202	207	193	180	163	232	208	273	200	206	208
11	IMHSB-17R-13	194	206	194	221	204	208	191	183	161	238	237	276	201	211	212
12	IMHSB-17R-18	196	184	191	197	192	173	163	162	154	216	213	244	190	190	195
13	IMHSB-17R-21	189	198	192	212	198	194	186	176	171	225	225	260	205	205	207
14	IMHSB-17R-22	191	183	182	212	191	205	186	183	167	230	223	269	197	207	205
15	IMHSB-17R-23	198	206	204	223	209	207	186	192	170	237	239	268	194	211	215
16	KH-2595	193	187	214	226	205	192	191	197	162	212	221	267	196	204	210
17	KMH25K45(C)	191	201	199	225	203	218	187	172	175	234	240	287	203	214	214
18	Kh-2597	192	197	192	226	202	206	193	210	179	239	206	293	199	216	215
19	MFH17-31	192	187	177	179	182	186	169	171	135	219	234	258	180	195	.
20	MFH17-32	196	178	172	1	137	187	174	160	147	227	231	261	179	196	.
21	MFH17-33	196	196	181	198	192	197	146	178	162	231	194	256	189	194	.
22	MM2034	187	189	184	216	194	194	182	174	157	237	209	268	198	202	206
23	MM9333	189	185	191	212	192	193	189	184	176	214	240	254	206	206	205
24	NMH713(C)	195	219	210	240	216	222	185	180	207	240	238	285	207	221	218
25	P3522 (C)	199	213	217	249	219	219	231	197	188	237	227	317	212	228	230

Table No. 1: (Contd.)

Plant Height **Plant Height**

S. No.	Entry Name	NWPZ (Zone-II)					PZ (Zone-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	PM17201L	187	199	204	216	202	192	199	198	172	238	239	274	202	214	215
27	PM17202L	188	188	194	202	192	191	190	189	165	222	232	259	203	206	207
28	PM17203L	193	214	208	237	212	204	211	168	179	238	263	283	210	220	224
29	PM17204L	187	199	193	223	201	193	190	191	174	234	237	283	193	213	214
30	PM17205L	198	208	215	223	212	209	212	195	175	238	276	291	215	225	228
31	PM17206L	197	212	193	212	203	185	194	179	170	224	223	278	201	207	211
32	PM17208L	186	213	219	231	212	216	211	184	206	237	231	286	208	222	224
33	REH2016-3	197	199	209	215	206	201	185	170	175	228	206	259	204	204	210
34	Rasi 3486(W)	199	210	209	230	212	198	187	174	171	242	237	281	196	211	217
35	Rasi 4118	192	218	218	236	216	214	221	190	187	240	283	304	202	230	227
	Z1Location Mean	193	199	197	216	201	201	191	183	172	231	229	278	200	211	213
	Z2CV (%)	3.5	5.1	6.2	4.2	4.9	5.2	6.2	8.3	7.9	4.7	9.8	4.9	5.4	6.7	6.7
	Z3F (Prob)	0.67	0	0	0	0	0	0	0.09	0	0.01	0.01	0	0.16	0	0
	Z4CD (5%)	11.1	16.7	20.0	15.0	8.3	17.2	19.2	25.0	22.2	17.7	36.7	22.5	17.8	8.6	5.3
	Z5CD (1%)	14.8	22.2	26.7	19.9	11.0	22.8	25.5	33.2	29.5	23.5	48.8	29.9	23.7	11.3	7.0

Table No. 1: NIVT (Late Maturity)

Ear Height

S. No.	Entry Name	CWZ (Zone-V)			NEPZ (Zone-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOLI	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7043	145	98	121	96	73	105	98	104	93	111	97
2	ADV 7164	143	96	122	93	84	103	106	94	111	118	101
3	Bio 302	159	95	123	123	100	104	126	100	120	148	117
4	DAS-MH-905	118	98	108	90	75	105	98	98	109	124	99
5	DAS-MH-906	118	98	110	89	62	99	98	107	103	123	98
6	DAS-MH-907	118	93	105	90	77	111	99	98	106	121	100
7	DKC9195 (IS8508)	159	96	127	114	90	128	132	95	117	141	117
8	DKC9197 (IS8638)	139	97	119	102	81	110	109	99	106	121	104
9	GK3212	118	88	104	85	80	100	109	101	114	111	100
10	GK3214	128	94	112	92	77	107	108	96	117	105	99
11	IMHSB-17R-13	137	106	121	95	91	108	110	98	99	128	104
12	IMHSB-17R-18	111	97	105	83	78	98	90	100	84	91	89
13	IMHSB-17R-21	116	101	107	86	71	93	106	101	98	111	94
14	IMHSB-17R-22	116	95	107	85	72	101	92	100	101	116	96
15	IMHSB-17R-23	162	96	128	106	89	118	100	106	116	135	109
16	KH-2595	131	92	110	97	82	111	110	100	106	136	106
17	KMH25K45(C)	152	97	124	105	81	113	110	104	97	129	105
18	Kh-2597	152	94	122	113	90	105	120	105	110	130	111
19	MFH17-31	116	91	103	79	71	98	111	98	.	110	.
20	MFH17-32	128	92	109	83	59	96	85	101	.	111	.
21	MFH17-33	136	87	110	109	93	105	109	105	.	104	.
22	MM2034	141	93	119	98	78	115	102	99	104	106	101
23	MM9333	129	86	106	85	76	104	98	101	106	116	99
24	NMH713(C)	136	93	116	91	73	111	109	97	104	96	98
25	P3522 (C)	161	96	128	127	74	119	121	102	122	137	115

Table No. 1: NIVT (Late Maturity)

Ear Height

S. No.	Entry Name	CWZ (Zone-V)			NEPZ (Zone-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOLI	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	PM17201L	123	96	110	88	83	103	111	102	107	116	101
27	PM17202L	119	80	101	74	68	89	96	97	94	110	90
28	PM17203L	140	92	119	90	105	93	106	102	105	131	105
29	PM17204L	128	96	112	92	89	100	119	96	93	130	103
30	PM17205L	117	90	102	98	78	100	106	100	103	112	99
31	PM17206L	121	94	107	90	82	99	104	100	103	119	99
32	PM17208L	137	96	116	127	96	114	114	99	116	123	112
33	REH2016-3	117	90	105	95	89	106	110	107	98	120	103
34	Rasi 3486(W)	147	100	122	97	74	106	118	99	104	130	105
35	Rasi 4118	126	87	108	100	86	113	112	70	112	129	103
	Location Mean	133	94	113	96	81	105	107	99	105	120	102
	CV (%)	9.3	9.4	9.4	11.4	12.0	6.4	8.2	10.2	9.5	8.2	9.4
	F (Prob)	0	0.81	0	0	0	0	0	0.63	0.02	0	0
	CD (5%)	20.1	14.5	12.6	17.9	15.8	11.0	14.5	16.6	16.5	16.2	6.2
	CD (1%)	26.7	19.3	16.6	23.8	21.0	14.7	19.2	22.1	22.0	21.5	8.1

Table No. 1: (Contd.)

Ear Height

S. No.	Entry Name	NWPZ (Zone-II)					PZ (Zone-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7043	91	101	100	71	90	101	100	82	77	111	86	159	109	103	100
2	ADV 7164	92	110	85	74	91	107	98	105	98	120	95	160	103	111	105
3	Bio 302	93	126	120	90	106	119	113	103	96	121	107	189	111	120	117
4	DAS-MH-905	94	105	93	65	90	108	94	85	88	108	91	172	94	105	100
5	DAS-MH-906	92	97	106	64	90	109	99	92	87	104	103	156	104	107	101
6	DAS-MH-907	90	94	105	64	89	104	101	81	81	107	83	162	97	103	99
7	DKC9195 (IS8508)	90	122	129	95	109	128	110	114	102	128	118	191	103	124	119
8	DKC9197 (IS8638)	88	100	119	82	99	108	109	94	93	117	98	181	101	113	108
9	GK3212	91	96	97	68	87	100	100	90	82	115	85	154	106	104	100
10	GK3214	92	91	98	65	88	117	102	87	85	114	102	154	103	108	102
11	IMHSB-17R-13	90	112	114	83	100	116	105	100	75	118	92	167	108	110	107
12	IMHSB-17R-18	95	88	109	59	88	87	92	84	79	107	78	136	87	94	92
13	IMHSB-17R-21	92	99	97	68	90	102	97	115	87	111	93	146	101	106	99
14	IMHSB-17R-22	89	92	87	71	85	104	91	87	82	114	94	159	100	104	98
15	IMHSB-17R-23	92	115	116	78	101	115	100	111	89	123	123	181	106	118	113
16	KH-2595	91	109	126	88	103	100	102	104	78	103	81	161	101	103	105
17	KMH25K45(C)	92	106	101	79	94	118	96	84	70	112	83	172	105	105	105
18	Kh-2597	92	122	103	86	100	113	108	115	97	119	117	189	101	120	113
19	MFH17-31	91	107	96	62	88	100	91	97	72	111	95	174	96	105	.
20	MFH17-32	92	89	93	.	.	102	100	86	74	122	88	174	95	104	.
21	MFH17-33	89	116	117	81	100	103	88	100	78	119	79	173	96	104	.
22	MM2034	93	100	94	74	90	104	92	94	68	117	76	162	97	102	101
23	MM9333	89	95	102	77	90	108	102	99	95	103	97	155	105	108	101
24	NMH713(C)	90	105	106	75	94	114	102	97	106	122	89	165	101	112	104
25	P3522 (C)	91	113	115	98	104	115	117	105	104	119	95	197	109	121	116

Table No. 1: (Contd.)

Ear Height

S. No.	Entry Name	NWPZ (Zone-II)					PZ (Zone-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	PM17201L	90	100	106	70	91	99	105	92	85	112	113	148	104	107	102
27	PM17202L	93	84	96	61	83	98	93	90	78	109	98	137	92	99	93
28	PM17203L	92	92	107	71	90	109	105	85	81	119	102	166	111	110	105
29	PM17204L	90	107	102	75	94	101	106	99	90	119	100	150	92	108	104
30	PM17205L	94	96	110	66	92	103	102	83	71	119	96	160	107	105	100
31	PM17206L	91	99	91	72	88	90	97	91	80	107	87	154	92	99	98
32	PM17208L	95	116	115	81	102	119	110	96	92	116	103	166	100	113	111
33	REH2016-3	94	112	113	76	100	109	96	88	83	115	94	162	97	105	103
34	Rasi 3486(W)	93	113	107	81	98	102	101	93	81	121	98	169	100	109	107
35	Rasi 4118	91	112	110	81	99	116	112	90	85	118	106	171	98	112	106
	Location Mean	92	104	105	75	94	107	101	95	85	115	96	165	101	108	104
	CV (%)	3.1	8.8	10.5	8.2	8.4	5.8	7.3	12.5	15.0	5.9	12.3	6.3	8.4	9.0	9.1
	F (Prob)	0.5	0	0	0	0	0	0	0.04	0.06	0	0	0	0.37	0	0
	CD (5%)	4.7	15.0	18.1	10.1	6.8	10.2	12.0	19.4	20.8	11.1	19.2	17.1	13.8	5.9	3.5
	CD (1%)	6.3	19.9	24.0	13.4	9.0	13.5	16.0	25.8	27.7	14.8	25.5	22.7	18.4	7.7	4.6

Table No. 1: NIVT (Late Maturity)

Initial Plant Stand (000/ha)

S. No.	Entry Name	CWZ (Zone-V)			NEPZ (Zone-III)						
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7043	65	70	69	66	80	76	66	40	73	66
2	ADV 7164	68	76	72	83	69	81	64	42	69	68
3	Bio 302	71	73	71	77	64	83	65	43	76	68
4	DAS-MH-905	67	72	70	75	68	77	68	39	75	68
5	DAS-MH-906	72	79	75	82	73	75	64	38	70	68
6	DAS-MH-907	76	70	72	74	73	78	65	41	72	67
7	DKC9195 (IS8508)	78	79	78	81	66	80	66	37	64	66
8	DKC9197 (IS8638)	71	76	72	80	71	78	68	41	73	69
9	GK3212	70	80	76	80	70	74	65	38	75	66
10	GK3214	68	70	68	84	61	78	65	39	71	67
11	IMHSB-17R-13	67	73	70	79	64	77	65	40	78	67
12	IMHSB-17R-18	70	66	68	84	65	79	64	47	73	68
13	IMHSB-17R-21	64	76	69	81	62	77	65	42	71	67
14	IMHSB-17R-22	66	75	70	80	72	83	67	38	69	68
15	IMHSB-17R-23	70	82	76	82	62	77	66	36	63	65
16	KH-2595	67	77	73	69	71	77	65	43	71	66
17	KMH25K45(C)	74	73	75	80	71	79	66	44	72	68
18	Kh-2597	68	76	71	81	70	78	67	43	65	68
19	MFH17-31	59	61	60	66	62	76	65	43	77	65
20	MFH17-32	8	68	38	47	70	25	66	35	67	52
21	MFH17-33	52	70	62	64	73	77	66	45	61	64
22	MM2034	70	75	72	71	67	74	66	23	70	62
23	MM9333	66	70	69	76	66	79	66	40	76	66
24	NMH713(C)	78	69	73	75	71	78	69	39	70	67
25	P3522 (C)	76	83	78	82	74	80	65	43	69	69

Table No. 1: NIVT (Late Maturity)

Initial Plant Stand (000/ha)

S. No.	Entry Name	CWZ (Zone-V)			NEPZ (Zone-III)						
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	PM17201L	68	69	71	79	72	79	65	43	77	69
27	PM17202L	68	69	70	81	76	81	72	36	81	70
28	PM17203L	67	74	71	79	70	80	67	42	67	67
29	PM17204L	74	81	77	77	75	78	67	44	71	68
30	PM17205L	69	75	71	83	75	82	65	38	66	68
31	PM17206L	68	77	72	81	70	78	64	40	69	67
32	PM17208L	72	76	75	82	67	82	67	42	71	69
33	REH2016-3	66	69	68	77	63	72	66	39	62	64
34	Rasi 3486(W)	69	78	72	83	71	79	65	38	74	68
35	Rasi 4118	70	69	71	81	67	77	70	39	76	68
	Location Mean	67	74	70	77	69	77	66	40	71	67
	CV (%)	8.6	8.4	8.5	7.6	9.2	4.1	3.5	12.6	7.8	7.4
	F (Prob)	0	0.05	1	0	0.2	0	0.14	0.06	0.03	1
	CD (5%)	9.4	10.1	7.2	9.6	10.4	5.2	3.8	8.2	9.1	3.3
	CD (1%)	12.6	13.5	9.6	12.8	13.9	6.9	5.1	11.0	12.1	4.4

Table No. 1: (Contd.)

Initial Plant Stand (000/ha)

S. No.	Entry Name	NWPZ (Zone-II)					PZ (Zone-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7043	75	75	81	63	74	69	67	75	63	68	60	79	64	68	69
2	ADV 7164	77	83	83	57	75	63	76	77	65	67	63	82	66	70	70
3	Bio 302	75	82	82	55	74	65	62	77	62	62	52	77	63	65	68
4	DAS-MH-905	80	77	80	60	75	69	68	76	63	67	62	75	65	68	69
5	DAS-MH-906	76	82	73	62	73	64	64	78	65	65	65	73	62	67	69
6	DAS-MH-907	77	83	74	57	72	65	64	76	62	67	66	78	65	68	69
7	DKC9195 (IS8508)	77	80	76	54	73	66	63	76	63	64	60	73	61	66	68
8	DKC9197 (IS8638)	76	77	79	62	74	65	66	75	64	65	57	76	64	67	69
9	GK3212	74	74	79	60	72	65	66	76	63	67	57	80	61	67	69
10	GK3214	76	82	83	61	75	66	60	77	62	65	58	79	66	66	68
11	IMHSB-17R-13	75	83	67	31	63	65	68	77	62	69	49	72	60	65	66
12	IMHSB-17R-18	79	77	75	51	70	64	59	76	63	70	59	73	64	66	68
13	IMHSB-17R-21	78	72	70	52	67	66	57	77	62	65	54	71	63	64	66
14	IMHSB-17R-22	78	77	82	58	74	64	60	77	63	65	51	71	62	65	68
15	IMHSB-17R-23	76	79	74	36	65	64	62	76	65	67	54	82	62	66	67
16	KH-2595	75	81	82	59	75	67	69	77	63	65	59	81	66	68	69
17	KMH25K45(C)	73	79	82	61	74	65	69	79	64	70	60	82	64	69	70
18	Kh-2597	73	81	86	63	75	68	57	77	67	66	64	79	62	67	69
19	MFH17-31	74	49	58	7	48	64	53	72	63	67	50	67	59	62	60
20	MFH17-32	78	25	52	.	.	63	38	75	61	66	50	66	59	60	.
21	MFH17-33	77	44	56	10	46	61	52	74	64	64	51	73	57	62	59
22	MM2034	76	81	74	60	72	64	56	76	62	67	49	73	59	64	66
23	MM9333	75	80	71	61	72	66	60	76	64	65	59	75	62	66	68
24	NMH713(C)	77	80	75	59	73	66	65	76	64	65	53	76	62	67	69
25	P3522 (C)	73	79	76	62	72	69	60	76	65	66	60	80	63	67	70

Table No. 1: (Contd.)

Initial Plant Stand (000/ha)

S. No.	Entry Name	NWPZ (Zone-II)					PZ (Zone-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	PM17201L	76	77	83	65	75	67	74	78	63	67	66	78	64	69	71
27	PM17202L	76	81	73	63	74	65	64	75	64	68	63	77	64	67	70
28	PM17203L	78	77	79	63	74	66	64	77	64	67	61	74	63	68	69
29	PM17204L	74	81	82	58	74	63	71	77	63	72	61	74	65	69	70
30	PM17205L	76	79	82	64	74	64	64	77	63	63	62	79	64	67	69
31	PM17206L	76	79	76	62	74	63	66	77	64	63	57	75	64	66	69
32	PM17208L	80	80	77	62	73	66	71	77	64	65	61	73	64	67	70
33	REH2016-3	75	79	75	58	72	64	57	77	63	67	50	70	61	63	66
34	Rasi 3486(W)	78	81	83	58	75	68	59	75	63	67	61	72	63	66	69
35	Rasi 4118	76	82	82	61	76	64	74	78	63	66	59	74	61	67	69
	Location Mean	76	76	76	55	71	65	63	76	63	66	58	75	63	66	68
	CV (%)	4.0	6.2	9.9	8.9	7.4	3.7	11.9	2.1	3.2	4.8	11.2	5.9	4.9	6.6	7.3
	F (Prob)	0.6	0	0	0	1	0.08	0	0.05	0.64	0.44	0.03	0.01	0.23	1	1
	CD (5%)	4.9	7.7	12.3	8.0	4.3	3.9	12.3	2.7	3.3	5.2	10.6	7.3	5.1	2.5	1.8
	CD (1%)	6.5	10.3	16.3	10.7	5.6	5.2	16.3	3.6	4.4	7.0	14.1	9.7	6.8	3.3	2.4

Table No. 1: NIVT (Late Maturity)

Number of Cobs

S. No.	Entry Name	CWZ (Zone-V)		NEPZ						
		BANS	GODH	ZONE	VARA	BAHA	BHUB	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7043	26	27	33	38	41	36	34	35	36
2	ADV 7164	30	29	39	33	44	37	34	33	37
3	Bio 302	30	31	41	30	41	39	33	38	37
4	DAS-MH-905	28	28	37	33	45	35	35	37	37
5	DAS-MH-906	29	30	39	35	42	34	35	33	37
6	DAS-MH-907	30	29	35	35	42	37	35	35	36
7	DKC9195 (IS8508)	32	32	44	32	43	34	33	32	36
8	DKC9197 (IS8638)	30	29	39	34	43	37	37	35	38
9	GK3212	31	32	36	34	41	34	34	36	36
10	GK3214	28	27	38	29	42	35	27	35	35
11	IMHSB-17R-13	31	31	37	31	42	36	38	37	37
12	IMHSB-17R-18	30	30	40	31	43	42	32	35	37
13	IMHSB-17R-21	31	29	42	29	40	38	27	35	36
14	IMHSB-17R-22	28	28	38	34	42	34	32	33	36
15	IMHSB-17R-23	34	33	37	30	43	33	35	30	35
16	KH-2595	31	32	36	35	43	39	35	35	37
17	KMH25K45(C)	29	30	38	34	42	39	35	36	37
18	Kh-2597	28	29	39	33	46	39	34	31	37
19	MFH17-31	29	29	34	30	43	38	.	38	.
20	MFH17-32	29	28	22	34	42	32	.	33	.
21	MFH17-33	28	29	28	35	41	41	.	30	.
22	MM2034	31	32	34	32	44	21	34	34	33
23	MM9333	28	29	38	32	43	36	36	36	37
24	NMH713(C)	30	30	34	34	44	36	36	34	36
25	P3522 (C)	31	31	44	36	40	38	34	33	38

Table No. 1: NIVT (Late Maturity)

Number of Cobs

S. No.	Entry Name	CWZ (Zone-V)		NEPZ						
		BANS	GODH	ZONE	VARA	BAHA	BHUB	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	PM17201L	31	32	37	34	41	38	35	38	37
27	PM17202L	30	31	39	36	48	32	37	39	38
28	PM17203L	29	29	35	34	46	38	34	32	37
29	PM17204L	34	34	38	36	45	40	36	35	38
30	PM17205L	31	30	40	36	42	34	37	32	37
31	PM17206L	31	30	42	34	42	36	35	34	37
32	PM17208L	31	31	39	32	43	38	33	34	37
33	REH2016-3	27	26	34	30	40	35	28	31	33
34	Rasi 3486(W)	33	33	38	34	41	35	33	36	36
35	Rasi 4118	30	30	40	32	47	35	36	38	37
	Location Mean	30	30	37	33	43	36	34	35	36
	CV (%)	9.8	9.8	9.6	9.3	6.8	12.6	11.5	7.7	9.6
	F (Prob)	0.67	0	0	0.18	0.49	0.06	0.4	0.02	0
	CD (5%)	4.8	4.8	5.8	5.0	4.7	7.4	6.4	4.4	2.3
	CD (1%)	6.4	6.4	7.7	6.7	6.3	9.9	8.6	5.8	3.0

Table No. 1: (Contd.)

Number of Cobs

S. No.	Entry Name	PZ													
		KARN	LUDH	PANT	ZONE	COIM	ZONE	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV 7043	43	40	38	40	33	33	35	41	33	33	38	33	35	36
2	ADV 7164	49	39	34	41	31	37	36	42	33	35	39	31	36	36
3	Bio 302	48	37	34	39	31	30	37	40	31	29	37	31	33	35
4	DAS-MH-905	44	41	37	41	34	33	36	38	32	35	37	31	34	36
5	DAS-MH-906	45	40	38	41	32	31	37	42	32	36	35	31	34	36
6	DAS-MH-907	49	32	31	37	33	31	37	39	31	37	37	32	35	35
7	DKC9195 (IS8508)	46	39	33	40	31	32	37	40	30	33	35	31	34	35
8	DKC9197 (IS8638)	47	39	38	41	32	33	35	42	32	32	37	30	34	36
9	GK3212	44	34	35	38	32	32	36	39	32	32	38	30	34	35
10	GK3214	48	40	38	42	32	29	36	38	32	33	38	31	34	35
11	IMHSB-17R-13	47	35	19	33	32	33	36	38	33	27	35	29	33	34
12	IMHSB-17R-18	46	34	33	38	31	28	35	38	32	33	35	30	33	35
13	IMHSB-17R-21	43	32	33	36	32	27	36	37	32	30	34	31	33	34
14	IMHSB-17R-22	43	39	35	39	30	29	37	37	31	29	35	31	33	35
15	IMHSB-17R-23	46	34	22	33	32	30	37	39	31	31	39	29	33	34
16	KH-2595	49	43	34	43	32	33	36	40	32	34	40	33	35	37
17	KMH25K45(C)	43	41	38	40	32	33	36	40	35	34	39	32	35	36
18	Kh-2597	45	43	39	42	34	28	36	42	32	36	38	30	34	36
19	MFH17-31	33	27	5	22	31	25	35	39	32	28	32	30	32	.
20	MFH17-32	19	26	.	.	30	18	35	37	29	28	31	31	30	.
21	MFH17-33	28	25	7	20	29	25	35	40	30	28	36	28	31	.
22	MM2034	47	34	36	39	32	27	36	39	32	28	36	29	33	34
23	MM9333	48	35	36	40	32	30	35	39	31	34	36	30	33	35
24	NMH713(C)	46	34	35	39	32	31	36	41	32	30	36	31	34	35
25	P3522 (C)	46	37	38	40	33	28	36	40	30	34	39	30	34	36

Table No. 1: (Contd.)

Number of Cobs

S. No.	Entry Name	PZ													
		KARN	LUDH	PANT	ZONE	COIM	ZONE	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	PM17201L	44	41	39	42	33	36	36	40	33	37	37	31	35	37
27	PM17202L	47	37	38	41	34	31	36	41	33	35	37	31	35	37
28	PM17203L	45	40	37	41	32	31	37	38	33	34	36	31	34	36
29	PM17204L	47	40	36	41	32	34	37	40	33	34	36	33	35	37
30	PM17205L	46	40	39	41	32	31	35	40	31	35	38	31	34	36
31	PM17206L	47	39	37	42	31	32	36	41	32	32	36	31	34	36
32	PM17208L	45	36	38	39	32	34	37	40	31	34	35	31	34	36
33	REH2016-3	46	29	36	37	32	27	37	39	31	28	33	29	32	33
34	Rasi 3486(W)	46	41	35	41	34	28	36	38	33	34	35	30	34	36
35	Rasi 4118	48	40	36	41	32	36	36	39	32	33	36	30	34	36
	Location Mean	44	37	33	38	32	31	36	39	32	32	36	31	34	35
	CV (%)	7.3	8.4	9.9	8.4	4.0	12.0	3.1	6.5	4.4	11.2	5.9	6.2	7.1	8.5
	F (Prob)	0	0	0	0	0.04	0	0.23	0.66	0.06	0.03	0.01	0.7	0	0
	CD (5%)	5.3	5.0	5.4	3.1	2.1	6.0	1.8	4.2	2.3	5.9	3.5	3.1	1.4	1.1
	CD (1%)	7.1	6.7	7.2	4.0	2.8	8.0	2.4	5.6	3.1	7.9	4.6	4.1	1.8	1.5

Table No. 2: NIVT (Medium)

Yield (Kg/ha)

S. No.	Entry Name	CWZ (ZONE-V)						NEPZ (ZONE-IV)															
		BANS		GODH		ZONE		VARA		BAHR		BHUB		DHOL		NADI		RANC		SABO		ZONE	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	AH-8070	6439	35	8944	2	5780	37	7530	28	7752	26	7138	7	10944	3	8761	36	11396	8	9699	28	8987	15
2	AH-8071R	6651	32	4885	39	6909	27	6898	34	7796	24	7378	1	9640	29	11235	23	11313	10	11471	6	8993	14
3	AH-8181	9563	4	8241	7	8685	10	9623	10	9320	4	6526	17	9200	37	11085	27	8643	27	9892	23	8977	16
4	BAUMH 11-16-1	7085	26	4913	38	6225	33	6538	36	6025	41	5052	39	9675	27	11770	12	7481	31	8755	37	7211	38
5	BIO9544 (C)	8412	9	7666	11	8321	14	9741	8	8293	18	6854	12	10644	7	13170	5	12468	5	10734	11	9901	3
6	BLH-111	10511	1	6667	25	10128	1	13427	1	9856	2	7186	4	9797	22	11149	26	14233	2	12588	1	11140	1
7	BLH-124	6886	30	6564	28	7415	24	7959	24	9211	7	6460	19	10856	5	7342	40	5922	40	11873	2	8764	21
8	BLH-135	8198	12	6957	21	8766	8	10802	3	7784	25	5337	37	9990	20	11367	19	10361	18	9707	27	8877	18
9	BRM 12-7	5611	38	7033	20	5570	38	7092	32	9249	6	5714	34	9583	30	8925	35	6821	36	9045	36	8105	32
10	Bisco-X1 (C)	5764	.	5764	34	4582	.	4582	.	4582	.	4462	40	4582	.	8712	37	4582	.	572	42	4582	.
11	CMH 9999	8180	14	10567	1	8737	9	9463	11	9404	3	6131	25	9378	33	11988	11	11719	7	11855	3	9717	4
12	CMH1818	7962	17	8291	6	7615	21	10378	4	9023	9	5875	30	9565	31	11435	17	11076	12	9742	25	9185	10
13	DH-291	9900	2	7539	12	9574	3	7712	26	6839	33	6243	22	10004	19	10252	31	9858	20	10246	17	8371	28
14	DH-296	8194	13	6398	30	7508	23	8195	20	8442	15	7259	2	10579	8	11374	18	10861	14	10784	10	9326	8
15	DHM117(C)	5955	36	7324	14	5824	36	6236	38	7158	32	6221	23	9756	25	11218	25	6101	38	10522	14	7734	35
16	IH-0966	5146	39	6662	26	5530	39	4087	40	6152	38	5335	38	10107	17	8053	39	6830	35	9718	26	7048	39
17	IH-1208	4619	40	6731	24	4939	41	3247	41	7729	27	3960	42	8843	39	5595	42	8379	29	7742	41	6766	41
18	IMHSB-17R-1	7110	25	8028	8	7755	20	10228	5	7321	29	6409	20	10681	6	15006	3	11887	6	10230	18	9406	7
19	IMHSB-17R-10	7993	16	7448	13	7886	16	6929	33	8564	14	5628	35	9763	24	6248	41	9387	23	10049	20	8290	29
20	IMHSB-17R-11	6995	27	5698	35	7594	22	7403	29	6405	37	6104	26	10249	13	11528	16	8625	28	10810	9	8141	31
21	IMHSB-17R-12	8049	15	3888	42	6895	28	8066	21	7268	30	6988	10	9365	34	9355	32	7327	32	10386	15	8266	30
22	IMHSB-17R-14	8745	7	7093	18	9052	5	7946	25	8855	11	5888	29	9642	28	11233	24	9608	21	10282	16	8813	19
23	IMHSB-17R-15	7547	22	6524	29	7849	17	7620	27	7689	28	6196	24	8714	40	11311	22	10400	17	11295	7	8695	23
24	IMHSB-17R-16	7775	20	7148	16	7398	25	8887	13	8262	19	7007	9	9731	26	18978	1	9167	24	10709	12	8905	17
25	IMHSB-17R-17	7903	18	8547	4	7971	15	10118	6	8929	10	6656	14	10347	12	12218	9	11237	11	10647	13	9446	6

Table No. 2: NIVT (Medium)

Yield (Kg/ha)

S. No.	Entry Name	CWZ (ZONE-V)						NEPZ (ZONE-IV)													
		BANS		GODH		ZONE		VARA		BAHR		BHUB		DHOL		NADI		RANC		SABO		ZONE	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
26	IMHSB-17R-19	7889	19	8501	5	8795	7	9632	9	8066	21	5896	28	9334	35	8093	38	10022	19	9398	34	8740	22
27	IMHSB-17R-2	7201	23	6864	23	7794	18	9380	12	8574	13	7138	6	10169	15	11719	13	11354	9	9092	35	9230	9
28	IMHSB-17R-20	7127	24	5520	36	6637	29	8669	16	8129	20	5959	27	10351	11	10794	29	7006	34	9499	30	8421	26
29	IMHSB-17R-3	8989	6	7940	9	8672	11	8772	14	8708	12	6372	21	10462	9	11692	15	10560	15	9426	33	9092	12
30	IMHSB-17R-4	8379	10	4711	40	8656	12	9780	7	9045	8	7210	3	11078	1	10510	30	12724	3	8426	39	9598	5
31	IMHSB-17R-5	9578	3	7221	15	9570	4	8587	18	9287	5	6520	18	9904	21	11346	20	10544	16	10011	22	9156	11
32	IMHSB-17R-6	6957	28	6907	22	6950	26	8682	15	6588	36	5875	31	9778	23	12814	6	8765	25	11482	5	8408	27
33	IMHSB-17R-7	6469	33	6241	32	6625	30	8045	22	8369	16	6672	13	10451	10	11703	14	8046	30	10018	21	8631	25
34	IMHSB-17R-8	8544	8	8718	3	8656	13	6877	35	8330	17	7153	5	10862	4	13404	4	10943	13	9509	29	8648	24
35	IMHSB-17R-9	5821	37	7078	19	5858	35	7395	30	7937	23	5610	36	8369	41	12039	10	15037	1	10225	19	9041	13
36	MEH17-11	6454	34	4557	41	5944	34	5433	39	6838	34	4258	41	10231	14	12556	7	6035	39	8445	38	7016	40
37	MMH17-21	4312	41	6656	27	5088	40	8253	19	6792	35	5811	32	10091	18	9288	33	7246	33	9460	31	8082	34
38	MMH17-22	8323	11	7144	17	8809	6	8000	23	7161	31	6883	11	9519	32	10979	28	5241	41	8275	40	7657	36
39	PM17207M	9369	5	7933	10	9696	2	11366	2	10338	1	7007	8	10945	2	17840	2	12469	4	11721	4	10566	2
40	REH2016-1	6907	29	5935	33	6513	31	6508	37	6043	40	6606	15	10153	16	9007	34	8763	26	11238	8	8091	33
41	REH2016-2	7758	21	5139	37	7771	19	7118	31	6105	39	5797	33	9269	36	12419	8	6816	37	9449	32	7610	37
42	Seed Tech 2324(Filler)	6873	31	6313	31	6486	32	8609	17	8041	22	6556	16	9199	38	11334	21	9510	22	9781	24	8795	20
	Location Mean	7523	.	6878	.	7523	.	8217	.	7975	.	6222	.	9934	.	11115	.	9570	.	9876	.	8628	.
	CV (%)	28.0	.	30.2	.	27.4	.	12.8	.	17.9	.	12.0	.	7.4	.	27.6	.	16.2	.	14.6	.	13.9	.
	F (Prob)	0.36	.	0.37	.	0	.	0	.	0.05	.	0	.	0.01	.	0.03	.	0	.	0	.	0	.
	CD (5%)	3430.2	.	3381.1	.	3357.0	.	1713.9	.	2329.0	.	1213.2	.	1199.4	.	4998.2	.	2533.0	.	2348.6	.	809.6	.
	CD (1%)	4557.8	.	4491.0	.	4460.5	.	2277.3	.	3094.5	.	1611.4	.	1593.6	.	6638.9	.	3365.6	.	3119.5	.	1065.9	.

Table No. 2: (Contd.)

Yield (Kg/ha)

S. No.	Entry Name	NWPZ (ZONE-II)									
		KANP		KARN		LUDH		PANT		ZONE	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	AH-8070	10472	41	10019	13	6927	12	10777	20	9480	20
2	AH-8071R	11081	37	9630	21	5958	23	9117	29	8370	35
3	AH-8181	12109	24	9271	26	6867	13	9072	30	9757	12
4	BAUMH 11-16-1	10804	39	9048	30	4545	36	12926	5	8333	36
5	BIO9544 (C)	12302	18	9755	17	6320	18	11412	11	9513	18
6	BLH-111	13193	7	12317	1	8954	1	13408	3	11167	1
7	BLH-124	13922	1	6562	38	5816	25	7403	37	8764	30
8	BLH-135	12786	12	9962	14	7145	10	13015	4	9882	9
9	BRM 12-7	12130	23	8240	36	4374	38	1527	40	8046	38
10	Bisco-X1 (C)	12293	20	8043	.	3793	42	8043	.	8043	.
11	CMH 9999	12006	28	10779	5	7518	6	10129	25	9481	19
12	CMH1818	11874	30	10407	10	6415	17	11711	9	9588	16
13	DH-291	13452	5	10138	12	6430	16	3908	38	10089	6
14	DH-296	12088	26	5262	40	4862	34	7812	34	7506	40
15	DHM117(C)	12300	19	4039	41	3912	41	849	41	6928	41
16	IH-0966	11719	34	8621	34	4587	35	7644	35	8391	34
17	IH-1208	12896	9	8619	35	4457	37	7515	36	8694	31
18	IMHSB-17R-1	11867	31	9095	29	8008	3	11876	7	9680	13
19	IMHSB-17R-10	12571	16	9580	23	5622	31	10984	18	9257	24
20	IMHSB-17R-11	12918	8	10306	11	5783	27	11279	13	9631	14
21	IMHSB-17R-12	11672	35	9953	15	5771	28	11387	12	9534	17
22	IMHSB-17R-14	11780	33	9551	24	4319	39	11492	10	8506	33
23	IMHSB-17R-15	12670	14	9928	16	5753	29	8398	33	9604	15
24	IMHSB-17R-16	13615	4	9715	18	7167	9	10153	24	10123	5
25	IMHSB-17R-17	12798	11	9586	22	7085	11	10912	19	9807	11

Table No. 2: (Contd.)

Yield (Kg/ha)

S. No.	Entry Name	NWPZ (ZONE-II)									
		KANP		KARN		LUDH		PANT		ZONE	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
26	IMHSB-17R-19	9613	42	9694	19	4926	33	10282	23	7865	39
27	IMHSB-17R-2	10785	40	9442	25	7187	8	12214	6	9180	26
28	IMHSB-17R-20	12234	21	9682	20	7754	4	10002	26	9977	7
29	IMHSB-17R-3	11298	36	10660	7	7239	7	11189	15	9946	8
30	IMHSB-17R-4	12216	22	10912	4	7562	5	11794	8	10138	4
31	IMHSB-17R-5	11074	38	11180	2	5970	21	11010	17	9269	22
32	IMHSB-17R-6	11864	32	8706	33	5312	32	10434	21	9046	27
33	IMHSB-17R-7	12345	17	10543	8	6048	20	11158	16	9265	23
34	IMHSB-17R-8	11993	29	11053	3	6549	15	9420	28	9833	10
35	IMHSB-17R-9	13321	6	10437	9	6723	14	14670	1	10392	3
36	MEH17-11	12645	15	8047	37	3985	40	8775	31	8222	37
37	MMH17-21	12106	25	9045	31	6055	19	11208	14	9226	25
38	MMH17-22	13867	2	6009	39	5896	24	3156	39	8567	32
39	PM17207M	13800	3	10735	6	8328	2	14127	2	10759	2
40	REH2016-1	12762	13	8914	32	5674	30	9591	27	8875	28
41	REH2016-2	12848	10	9148	27	5968	22	8439	32	9479	21
42	Seed Tech 2324(Filler)	12016	27	9136	28	5810	26	10297	22	8845	29
	Location Mean	12241	.	9350	.	6080	.	9798	.	9223	.
	CV (%)	14.7	.	15.2	.	17.9	.	20.1	.	16.0	.
	F (Prob)	0.9	.	0	.	0	.	0	.	0	.
	CD (5%)	2938.7	.	2315.8	.	1777.0	.	3206.8	.	1383.7	.
	CD (1%)	3903.4	.	3077.0	.	2360.3	.	4260.9	.	1824.9	.

Table No. 2: (Contd.)

Yield (Kg/ha)

S. No.	Entry Name	PZ (ZONE-IV)																All India	
		COIM		DHAR		KARI		KOLH		MAND		RAHU		VAGA		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	AH-8070	9715	9	7359	2	3616	36	5956	11	10618	6	12240	21	9995	1	9706	6	9113	12
2	AH-8071R	10010	7	4383	35	3840	28	5886	12	8993	15	12327	20	8958	3	9190	10	8816	19
3	AH-8181	8893	20	6278	15	5679	3	5296	19	7641	30	13068	15	7916	15	8599	20	8989	14
4	BAUMH 11-16-1	7622	35	4052	38	3696	34	4247	31	7105	36	13180	12	6350	33	7593	33	7483	37
5	BIO9544 (C)	10151	4	7053	4	4849	13	7491	2	11343	2	13156	13	8828	4	10174	1	9792	3
6	BLH-111	11126	1	7805	1	5098	10	7057	4	10265	7	15131	2	8168	9	10171	2	10741	1
7	BLH-124	8149	25	4734	30	5324	5	3408	37	7109	34	11550	30	4991	41	7153	38	8150	31
8	BLH-135	10250	3	6819	10	5106	8	8293	1	10076	11	13113	14	9109	2	10130	4	9477	5
9	BRM 12-7	7751	33	3887	39	4397	17	4141	34	8379	23	9792	38	5872	38	7227	36	7642	35
10	Bisco-X1 (C)	822	42	2266	42	1953	42	1680	.	1680	.		.	.	.	.	.	.	.
11	CMH 9999	7998	30	6888	7	3976	26	5021	22	8967	16	14380	5	8483	6	8848	14	9299	8
12	CMH1818	10092	5	6800	11	5869	2	5749	14	8718	20	12746	16	8564	5	9195	9	9187	10
13	DH-291	9285	12	6856	8	3882	27	6284	8	8039	27	12478	19	6705	27	8706	18	8955	16
14	DH-296	9114	15	4149	36	3289	39	4549	29	6868	38	11620	29	6664	28	7771	29	8339	28
15	DHM117(C)	7480	37	4686	31	3837	29	4665	27	8374	24	11540	31	6001	37	7570	34	7364	38
16	IH-0966	8089	26	4143	37	4832	14	3615	35	6060	41	9625	39	6513	32	6789	39	7114	40
17	IH-1208	7633	34	4610	33	4197	22	1734	41	6647	39	7324	41	6065	36	6045	41	6814	41
18	IMHSB-17R-1	9139	14	5471	21	4941	11	6480	7	11815	1	14891	4	7922	14	10131	3	9599	4
19	IMHSB-17R-10	8617	22	4841	28	4225	21	3575	36	8963	17	10203	37	8202	8	7957	26	8366	27
20	IMHSB-17R-11	8968	18	5261	24	4652	16	4947	23	8600	21	13876	6	7501	21	8768	17	8611	22
21	IMHSB-17R-12	7965	31	5752	18	3305	38	5529	16	8501	22	13606	8	7645	19	8491	21	8461	25
22	IMHSB-17R-14	8756	21	5462	22	4042	25	5100	21	8128	26	12083	23	8032	12	8356	22	8589	24
23	IMHSB-17R-15	9266	13	6988	6	2913	41	2804	40	9446	12	11369	33	5852	39	7942	27	8600	23
24	IMHSB-17R-16	8998	17	6665	14	4226	20	5682	15	7760	28	13732	7	7726	16	8838	16	9055	13
25	IMHSB-17R-17	9871	8	6821	9	4892	12	5419	18	10130	9	12555	18	8330	7	9371	8	9442	7

Table No. 2: (Contd.)

Yield (Kg/ha)

S. No.	Entry Name	PZ (ZONE-IV)																All India	
		COIM		DHAR		KARI		KOLH		MAND		RAHU		VAGA		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
26	IMHSB-17R-19	7804	32	5082	26	3765	32	4710	25	7737	29	11732	28	6622	29	7652	31	8180	30
27	IMHSB-17R-2	9450	11	5737	19	3730	33	7023	5	8802	18	11779	27	7522	20	8870	13	8978	15
28	IMHSB-17R-20	8395	23	6675	13	3829	30	5108	20	8313	25	13539	10	7960	13	8602	19	8653	21
29	IMHSB-17R-3	7379	39	5889	17	5443	4	6804	6	9092	14	11943	26	6769	26	8332	23	8954	17
30	IMHSB-17R-4	7478	38	5221	25	4189	23	7445	3	10772	5	12592	17	8073	11	9134	11	9457	6
31	IMHSB-17R-5	8938	19	7024	5	3373	37	5976	10	8786	19	12034	24	7710	17	8840	15	9150	11
32	IMHSB-17R-6	9096	16	4767	29	4048	24	4217	32	10095	10	10847	34	7400	22	8294	24	8372	26
33	IMHSB-17R-7	10078	6	7247	3	5309	6	5494	17	10808	4	12220	22	6592	30	8971	12	8739	20
34	IMHSB-17R-8	9610	10	5964	16	5173	7	6156	9	9261	13	15570	1	7670	18	9613	7	9223	9
35	IMHSB-17R-9	8217	24	5306	23	4673	15	4768	24	10812	3	10686	35	6537	31	8227	25	8822	18
36	MEH17-11	6556	41	3264	41	2953	40	4701	26	7106	35	11436	32	6268	35	7186	37	7237	39
37	MMH17-21	7046	40	4936	27	4278	18	4479	30	6511	40	13263	11	6959	25	7608	32	7896	33
38	MMH17-22	8040	28	3462	40	3792	31	3128	38	6995	37	9071	40	5850	40	6666	40	7578	36
39	PM17207M	10403	2	6693	12	5100	9	5844	13	10181	8	14938	3	8142	10	9920	5	10346	2
40	REH2016-1	8055	27	4535	34	4240	19	3110	39	7141	33	13603	9	6319	34	7729	30	8078	32
41	REH2016-2	7606	36	4643	32	3650	35	4189	33	7339	32	10518	36	7361	24	7288	35	7834	34
42	Seed Tech 2324(Filler)	8013	29	5579	20	5944	1	4602	28	7393	31	11961	25	7380	23	7839	28	8326	29
	Location Mean	8522	.	5525	.	4289	.	5126	.	8671	.	12243	.	7333	.	8380	.	8592	.
	CV (%)	13.4	.	23.9	.	26.5	.	16.7	.	14.6	.	14.1	.	14.4	.	14.9	.	15.7	.
	F (Prob)	0	.	0	.	0.09	.	0	.	0	.	0	.	0	.	0	.	0	.
	CD (5%)	1855.9	.	2149.3	.	1852.4	.	1396.3	.	2070.4	.	2821.9	.	1717.2	.	961.0	.	583.9	.
	CD (1%)	2465.1	.	2854.9	.	2460.4	.	1855.3	.	2751.0	.	3749.5	.	2281.7	.	1265.7	.	767.9	.

Table No. 2: NIVT (Medium)

Shelling %

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH-8070	79	81	80	70	77	81	77	70	81	81	77	74	80	79	79	78
2	AH-8071R	79	76	79	76	78	81	82	80	84	79	80	75	81	79	82	79
3	AH-8181	81	77	79	74	78	80	79	83	81	77	79	72	80	79	79	78
4	BAUMH 11-16-1	81	79	80	79	73	80	78	83	84	77	79	73	81	80	80	79
5	BIO9544 (C)	80	76	79	78	78	82	81	84	86	79	81	75	82	82	83	81
6	BLH-111	84	86	85	79	80	80	78	81	85	80	81	76	81	83	82	81
7	BLH-124	81	85	83	81	79	80	83	81	88	81	82	75	82	82	83	80
8	BLH-135	80	78	79	79	76	79	81	83	85	76	80	75	83	84	86	82
9	BRM 12-7	82	83	83	80	78	80	78	83	86	81	81	75	81	85	81	80
10	Bisco-X1 (C)	82	82	82	81	81	80	83	82	81	77	81	75	77	80	77	77
11	CMH 9999	82	82	83	76	80	80	78	82	82	82	80	75	80	84	78	79
12	CMH1818	81	81	81	76	78	79	80	84	86	77	80	74	81	82	82	80
13	DH-291	81	83	82	75	73	80	78	83	84	81	79	76	81	82	80	80
14	DH-296	82	79	81	79	77	81	84	97	85	78	82	76	82	81	84	80
15	DHM117(C)	79	88	83	69	75	80	81	81	82	77	78	76	80	75	80	78
16	IH-0966	80	82	81	83	75	78	78	85	85	78	80	76	82	81	77	79
17	IH-1208	76	73	74	80	75	80	76	83	82	77	79	75	82	79	78	78
18	IMHSB-17R-1	79	83	80	75	77	81	80	84	84	79	80	75	80	81	82	80
19	IMHSB-17R-10	79	83	81	69	76	78	77	82	81	79	78	76	80	74	83	78
20	IMHSB-17R-11	78	80	79	69	76	80	79	79	80	79	77	76	82	77	82	79
21	IMHSB-17R-12	80	78	79	71	76	81	77	76	81	77	77	75	80	76	79	78
22	IMHSB-17R-14	80	83	81	70	79	81	79	84	83	79	79	75	81	77	80	78
23	IMHSB-17R-15	79	88	83	77	78	80	76	80	82	81	79	73	83	81	80	79
24	IMHSB-17R-16	81	84	82	76	78	79	77	84	83	80	80	75	80	82	82	80
25	IMHSB-17R-17	79	84	82	75	78	80	79	82	82	79	79	75	80	82	84	80

Table No. 2: NIVT (Medium)

Shelling %

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	IMHSB-17R-19	81	83	82	75	76	81	78	74	84	78	78	74	79	81	81	79
27	IMHSB-17R-2	79	76	77	71	77	81	79	84	82	79	79	76	80	80	84	80
28	IMHSB-17R-20	79	83	81	74	78	80	78	81	82	80	79	76	81	78	81	79
29	IMHSB-17R-3	81	80	81	72	79	80	77	87	86	81	80	75	81	82	82	80
30	IMHSB-17R-4	82	83	82	74	78	81	82	82	84	75	80	77	81	82	81	80
31	IMHSB-17R-5	83	79	82	75	79	80	80	75	84	78	78	74	81	81	83	80
32	IMHSB-17R-6	82	81	81	76	75	79	79	77	83	83	79	76	81	79	80	79
33	IMHSB-17R-7	78	79	79	74	79	81	79	80	83	82	80	76	81	79	80	79
34	IMHSB-17R-8	81	87	84	68	75	80	80	86	81	79	78	75	82	75	81	78
35	IMHSB-17R-9	81	82	81	68	77	82	76	80	81	80	78	75	81	77	82	79
36	MEH17-11	79	69	75	77	76	80	81	86	80	75	79	75	81	78	78	78
37	MMH17-21	76	85	80	78	75	80	79	80	86	79	80	74	82	82	84	81
38	MMH17-22	80	85	82	78	76	81	79	89	85	75	80	78	80	82	78	79
39	PM17207M	81	76	79	78	81	81	85	83	86	78	82	75	81	84	85	81
40	REH2016-1	79	83	82	77	74	81	79	80	85	81	80	74	80	83	81	79
41	REH2016-2	81	78	79	78	75	81	78	89	87	80	81	77	81	84	79	80
42	Seed Tech 2324 (Filler)	80	82	81	77	76	80	76	81	84	77	79	74	81	79	82	79
	Location Mean	80	81	81	75	77	80	79	82	83	79	79	75	81	80	81	79
	CV (%)	1.9	5.2	3.9	0.0	2.1	0.8	2.1	7.0	1.0	3.9	3.3	2.3	1.8	2.2	2.0	2.1
	F (Prob)	0	0	0	0	0	0	0	0.06	0	0.51	0	0.76	0.52	0	0	0
	CD (5%)	2.5	6.8	3.7	0.0	2.6	1.0	2.8	9.4	1.3	5.0	1.7	2.9	2.3	2.9	2.7	1.4
	CD (1%)	3.3	9.1	4.9	0.0	3.4	1.3	3.7	12.4	1.7	6.6	2.2	3.8	3.1	3.8	3.5	1.8

Table No. 2: (Contd.)

Shelling %

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH-8070	78	78	77	74	81	80	80	82	79	78
2	AH-8071R	80	82	79	77	79	80	82	81	80	80
3	AH-8181	78	79	77	77	77	80	80	80	79	79
4	BAUMH 11-16-1	83	82	82	76	78	80	82	78	80	79
5	BIO9544 (C)	81	80	80	81	82	80	84	81	81	81
6	BLH-111	81	83	81	83	82	80	82	80	82	81
7	BLH-124	82	85	81	84	80	80	83	78	82	82
8	BLH-135	81	83	79	78	79	80	85	82	81	80
9	BRM 12-7	82	86	80	87	79	80	85	78	82	82
10	Bisco-X1 (C)	79	75	78	77	77	77	77	77	77	79
11	CMH 9999	78	81	79	75	81	80	85	80	80	80
12	CMH1818	80	81	80	80	81	80	83	79	80	80
13	DH-291	79	82	79	80	79	80	82	80	80	80
14	DH-296	80	78	78	74	78	80	83	79	79	80
15	DHM117(C)	78	77	76	71	78	80	80	78	77	78
16	IH-0966	82	82	80	79	77	80	83	80	80	80
17	IH-1208	81	82	79	47	80	80	82	78	76	77
18	IMHSB-17R-1	78	81	78	79	82	80	81	80	80	80
19	IMHSB-17R-10	77	73	76	74	80	80	78	80	77	78
20	IMHSB-17R-11	78	77	78	70	79	80	80	78	77	78
21	IMHSB-17R-12	76	77	75	79	80	80	80	81	78	78
22	IMHSB-17R-14	79	76	76	74	79	80	79	80	78	79
23	IMHSB-17R-15	77	82	80	73	80	80	84	78	79	80
24	IMHSB-17R-16	80	83	81	73	78	80	85	80	80	80
25	IMHSB-17R-17	79	81	80	76	79	80	85	81	80	80

Table No. 2: (Contd.)

Shelling %

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	IMHSB-17R-19	80	80	79	80	80	80	85	79	80	79
27	IMHSB-17R-2	77	78	75	81	79	80	81	81	79	79
28	IMHSB-17R-20	78	80	78	77	79	80	78	80	79	79
29	IMHSB-17R-3	79	81	77	79	80	80	81	78	79	80
30	IMHSB-17R-4	78	76	74	75	81	80	82	80	78	79
31	IMHSB-17R-5	78	80	78	73	78	80	82	81	79	79
32	IMHSB-17R-6	78	82	79	78	79	80	83	78	80	79
33	IMHSB-17R-7	78	80	79	73	81	80	81	77	79	79
34	IMHSB-17R-8	78	77	79	80	81	80	81	80	79	79
35	IMHSB-17R-9	78	76	78	74	82	80	78	78	78	78
36	MEH17-11	81	77	81	79	78	80	81	78	79	79
37	MMH17-21	81	80	80	80	77	80	85	80	80	80
38	MMH17-22	80	81	80	72	77	80	82	77	79	80
39	PM17207M	80	85	80	73	80	80	86	80	81	81
40	REH2016-1	80	85	80	68	78	80	87	78	80	80
41	REH2016-2	80	81	80	80	79	80	84	78	80	80
42	Seed Tech 2324 (Filler)	82	79	79	70	79	80	80	81	79	79
	Location Mean	79	80	79	76	79	80	82	79	79	80
	CV (%)	1.1	2.4	1.4	0.0	1.4	0.0	2.2	1.4	1.5	2.6
	F (Prob)	0	0	0	0	0	.	0	0	0	0
	CD (5%)	1.4	3.2	1.8	0.0	1.7	0.0	2.9	1.8	0.7	0.8
	CD (1%)	1.9	4.2	2.3	0.0	2.3	0.0	3.9	2.4	0.9	1.0

Table No. 2: NIVT (Medium)

Mositure%

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH-8070	16.2	16.5	16.3	23.9	26.1	18.9	20.6	18.3	26.2	27.7	23.1	16.3	27.8	13.2	28.6	21.4
2	AH-8071R	15.9	17.1	16.5	23.6	25.4	18.7	25.4	19.3	28.6	24.4	23.7	15.0	29.3	12.6	27.1	20.9
3	AH-8181	16.8	15.2	16.0	22.2	24.8	18.6	24.9	18.7	27.4	26.2	23.2	14.1	28.4	12.5	26.7	20.7
4	BAUMH 11-16-1	16.3	16.2	16.3	20.5	23.5	18.3	22.3	17.5	28.7	21.8	21.8	15.3	29.3	14.1	26.1	21.2
5	BIO9544 (C)	16.4	17.1	16.8	23.0	25.8	18.8	23.2	18.8	25.5	26.0	22.9	15.7	28.7	12.2	27.4	20.8
6	BLH-111	17.4	16.2	16.6	21.7	26.3	19.2	24.7	19.1	26.0	19.4	22.5	15.6	28.0	12.8	27.3	20.9
7	BLH-124	15.6	16.6	16.1	25.4	26.4	18.9	24.7	18.3	27.1	26.3	23.9	14.6	31.5	12.3	27.9	21.5
8	BLH-135	15.7	16.5	16.3	25.1	26.4	18.3	25.7	18.5	26.4	25.0	23.6	15.2	27.5	12.6	29.0	21.0
9	BRM 12-7	15.6	15.9	15.7	20.2	23.5	18.6	20.3	19.0	25.7	26.1	21.9	14.9	27.9	11.7	26.3	20.3
10	Bisco-X1 (C)	16.2	16.2	16.2	23.5	23.5	19.1	26.3	18.6	23.5	30.0	23.5	16.3	.	11.0	.	.
11	CMH 9999	16.1	14.6	15.4	22.0	25.9	18.7	24.2	19.5	28.0	25.8	23.5	15.7	29.2	13.2	28.1	21.3
12	CMH1818	16.3	16.9	16.5	24.0	27.1	18.8	24.7	18.5	26.7	26.9	23.7	15.6	28.2	13.2	27.8	21.2
13	DH-291	15.7	14.4	15.3	20.8	23.5	19.4	22.1	19.5	26.6	25.4	22.3	15.6	27.6	13.0	28.6	21.3
14	DH-296	15.9	14.7	15.4	22.9	25.3	19.1	24.4	17.6	24.3	26.5	22.8	15.1	28.4	13.3	26.3	20.8
15	DHM117(C)	16.4	14.7	15.4	26.2	26.9	18.3	23.9	19.2	28.8	26.1	24.3	13.5	27.5	13.0	26.1	20.1
16	IH-0966	15.1	17.0	16.0	17.2	22.5	18.5	19.1	18.5	26.8	20.4	20.4	17.2	27.8	12.9	26.0	21.1
17	IH-1208	15.8	15.4	15.6	18.6	23.1	18.3	21.6	18.3	22.6	26.6	21.2	15.7	28.6	12.3	26.8	21.0
18	IMHSB-17R-1	16.3	15.2	15.7	21.7	26.1	18.6	22.0	18.6	27.8	27.1	23.1	16.8	27.9	13.6	26.6	21.3
19	IMHSB-17R-10	16.2	15.5	15.9	22.4	24.9	18.4	20.1	18.5	28.7	25.0	22.4	14.9	27.4	12.6	27.3	20.4
20	IMHSB-17R-11	15.8	15.6	15.7	23.8	25.3	18.8	24.2	18.2	27.0	25.5	23.3	15.0	28.5	13.1	26.9	20.9
21	IMHSB-17R-12	15.9	16.6	16.1	25.4	26.8	18.6	25.8	18.2	27.2	24.8	23.8	15.8	29.7	13.6	27.1	21.5
22	IMHSB-17R-14	16.5	15.9	16.1	23.4	24.6	18.7	24.1	18.5	26.7	26.5	23.4	16.2	28.9	12.9	27.2	21.3
23	IMHSB-17R-15	15.6	16.5	16.3	22.5	24.5	18.1	26.4	18.3	27.5	25.9	23.4	14.6	28.7	13.1	28.2	21.3
24	IMHSB-17R-16	16.4	15.3	15.9	21.8	25.7	18.9	20.2	18.7	26.9	26.2	22.7	15.5	27.7	13.5	26.4	20.9
25	IMHSB-17R-17	15.9	16.7	16.3	22.0	25.0	18.9	23.8	19.1	24.7	26.3	22.6	14.6	27.6	12.0	28.2	20.8

Table No. 2: NIVT (Medium)

Mositure%

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	IMHSB-17R-19	15.7	16.7	16.3	20.7	25.4	18.8	24.5	18.9	25.2	26.2	22.8	15.8	29.7	12.5	26.1	20.9
27	IMHSB-17R-2	16.0	15.8	15.9	20.3	26.4	19.3	23.8	18.5	26.0	26.4	23.0	14.8	28.3	13.9	27.4	21.0
28	IMHSB-17R-20	16.8	15.6	16.3	21.2	26.2	18.4	19.5	18.6	26.6	27.1	22.5	15.2	28.2	13.2	26.0	20.6
29	IMHSB-17R-3	16.5	17.3	16.8	22.8	25.4	18.9	20.4	18.7	23.9	26.4	22.4	15.1	28.4	13.3	25.5	20.5
30	IMHSB-17R-4	16.4	16.7	16.5	23.2	26.0	19.0	22.1	17.5	24.8	26.7	22.7	16.5	28.9	13.4	25.4	20.9
31	IMHSB-17R-5	17.0	16.7	17.0	20.3	26.8	18.3	23.1	19.1	24.1	26.2	22.5	15.7	26.3	13.5	27.2	20.7
32	IMHSB-17R-6	15.7	17.4	16.4	22.3	26.0	18.9	24.3	18.4	27.2	25.8	23.3	16.5	30.0	12.7	28.0	21.8
33	IMHSB-17R-7	16.3	16.8	16.5	25.6	26.5	19.0	23.4	18.7	27.1	25.3	23.7	14.5	28.2	13.6	26.4	20.5
34	IMHSB-17R-8	16.4	17.9	17.0	23.3	24.9	18.9	23.1	18.9	26.5	27.7	23.3	16.5	26.3	13.7	27.8	21.0
35	IMHSB-17R-9	16.2	16.0	16.1	22.3	25.4	18.4	25.1	18.0	26.1	27.9	23.3	15.7	28.8	13.9	26.3	21.2
36	MEH17-11	16.0	14.4	15.4	17.2	23.1	18.5	22.5	16.0	24.1	23.2	20.7	14.1	29.2	13.3	25.7	20.6
37	MMH17-21	16.4	16.7	16.6	20.9	24.5	19.2	22.5	18.6	26.4	27.3	22.8	15.1	28.8	12.7	26.7	20.7
38	MMH17-22	16.8	16.3	16.4	20.6	24.0	19.1	22.9	19.0	26.6	26.3	22.8	15.1	29.5	12.3	27.7	21.2
39	PM17207M	16.6	16.6	16.6	22.9	26.4	18.9	22.4	18.9	27.5	26.6	23.3	15.6	28.4	11.8	26.7	20.6
40	REH2016-1	15.4	15.7	15.7	22.8	23.5	18.6	20.2	17.9	26.9	25.6	22.2	14.6	29.2	13.7	27.3	21.3
41	REH2016-2	16.6	16.0	16.2	21.1	24.7	18.6	22.3	18.6	26.8	27.4	22.9	16.7	28.3	13.5	26.2	21.1
42	Seed Tech 2324 (Filler)	16.4	15.5	16.0	24.4	24.8	19.3	24.0	18.7	26.3	25.9	23.5	14.8	30.4	13.4	27.5	21.6
	Location Mean	16.2	16.1	16.1	22.2	25.3	18.8	23.1	18.5	26.4	25.9	22.9	15.4	28.5	13.0	27.0	20.9
	CV (%)	2.5	5.7	4.4	4.4	2.2	1.7	7.1	6.1	4.6	9.7	6.0	8.5	5.2	3.5	3.5	5.3
	F (Prob)	0	0	0	0	0	0	0	0.86	0	0.09	0	0.51	0.28	0	0	0
	CD (5%)	0.7	1.5	0.8	1.6	0.9	0.5	2.7	1.8	2.0	4.1	0.9	2.1	2.4	0.7	1.5	0.9
	CD (1%)	0.9	2.0	1.1	2.1	1.2	0.7	3.5	2.4	2.6	5.4	1.1	2.8	3.2	1.0	2.1	1.2

Table No. 2: (Contd.)

Mositure%

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH-8070	18.9	14.5	17.5	14.7	15.5	18.0	18.6	16.4	16.8	19.7
2	AH-8071R	18.3	18.2	18.7	14.0	16.4	18.0	18.7	17.2	17.4	20.1
3	AH-8181	17.8	21.3	17.7	13.3	16.0	18.0	19.1	16.2	17.4	19.8
4	BAUMH 11-16-1	16.0	18.6	15.2	13.9	15.9	18.0	18.3	15.5	16.5	19.1
5	BIO9544 (C)	18.5	19.3	19.3	13.9	16.1	18.0	18.9	17.0	17.6	19.9
6	BLH-111	20.1	19.2	15.8	14.5	16.3	18.0	18.0	15.5	17.2	19.6
7	BLH-124	18.1	19.5	17.4	13.5	17.0	18.0	19.3	16.1	17.4	20.2
8	BLH-135	18.6	20.2	19.3	14.8	17.0	18.0	18.2	16.1	17.7	20.2
9	BRM 12-7	17.0	15.0	16.7	12.8	15.7	18.0	18.8	15.5	16.1	18.8
10	Bisco-X1 (C)	17.5	20.8	18.0	18.6	18.6	18.0	18.6	18.6	18.6	19.4
11	CMH 9999	16.8	20.0	17.1	13.3	15.8	18.0	18.8	15.5	16.9	19.8
12	CMH1818	19.0	21.6	18.9	13.9	17.1	18.0	18.8	16.5	17.9	20.3
13	DH-291	18.7	21.5	18.6	13.7	15.6	18.0	18.8	16.6	17.8	19.7
14	DH-296	17.2	23.3	17.1	14.3	15.6	18.0	19.1	16.1	17.7	19.8
15	DHM117(C)	17.7	19.2	19.5	14.6	16.6	18.0	18.4	15.8	17.5	20.0
16	IH-0966	15.6	15.9	16.1	11.9	15.7	18.0	18.7	15.4	15.8	18.4
17	IH-1208	15.5	17.6	16.2	12.3	14.8	18.0	18.5	15.5	16.0	18.6
18	IMHSB-17R-1	18.1	20.0	18.7	13.9	16.6	18.0	18.6	16.6	17.6	19.9
19	IMHSB-17R-10	18.6	20.4	16.8	13.9	15.8	18.0	18.8	15.6	17.2	19.4
20	IMHSB-17R-11	18.5	20.0	17.0	13.9	16.1	18.0	18.8	16.3	17.3	19.8
21	IMHSB-17R-12	18.1	23.3	17.9	13.9	15.8	18.0	18.3	16.3	17.8	20.3
22	IMHSB-17R-14	16.7	21.0	17.8	13.4	15.6	18.0	18.5	16.8	17.2	19.9
23	IMHSB-17R-15	18.3	18.9	15.8	12.9	16.0	18.0	19.0	15.8	16.9	19.8
24	IMHSB-17R-16	18.8	17.9	16.7	14.1	16.7	18.0	18.5	15.8	17.1	19.6
25	IMHSB-17R-17	18.4	20.2	18.3	13.3	15.8	18.0	18.3	16.9	17.3	19.7

Table No. 2: (Contd.)

Mositure%

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	IMHSB-17R-19	18.0	17.7	16.1	13.0	16.3	18.0	18.7	16.4	16.8	19.5
27	IMHSB-17R-2	17.9	19.7	17.1	13.7	16.3	18.0	19.1	15.9	17.2	19.7
28	IMHSB-17R-20	16.1	14.9	15.2	13.0	16.7	18.0	19.1	15.6	16.2	19.1
29	IMHSB-17R-3	17.6	21.1	17.4	14.4	15.8	18.0	18.8	16.4	17.4	19.6
30	IMHSB-17R-4	18.2	19.8	19.4	14.1	15.7	18.0	19.1	16.6	17.7	19.8
31	IMHSB-17R-5	17.0	19.1	16.7	13.2	16.0	18.0	18.6	17.0	17.0	19.5
32	IMHSB-17R-6	18.0	20.6	16.6	14.2	15.8	18.0	18.3	15.9	17.1	20.0
33	IMHSB-17R-7	18.7	21.1	20.1	13.6	17.6	18.0	18.9	16.1	18.0	20.2
34	IMHSB-17R-8	18.1	19.7	17.6	13.8	15.4	18.0	18.2	15.8	17.1	19.9
35	IMHSB-17R-9	17.8	21.0	17.4	13.8	15.8	18.0	18.9	16.0	17.2	19.9
36	MEH17-11	15.8	15.1	15.3	12.3	15.5	18.0	19.5	16.2	16.0	18.4
37	MMH17-21	17.5	19.5	18.1	12.9	15.8	18.0	18.8	16.6	17.2	19.7
38	MMH17-22	17.9	23.4	19.8	14.0	16.1	18.0	18.6	16.3	18.1	20.1
39	PM17207M	18.9	18.8	17.1	13.7	16.2	18.0	19.5	15.9	17.3	19.8
40	REH2016-1	15.8	17.0	15.9	13.6	15.8	18.0	18.6	17.1	16.5	19.3
41	REH2016-2	16.9	19.9	17.5	14.1	15.8	18.0	18.5	15.8	17.0	19.7
42	Seed Tech 2324 (Filler)	18.0	24.1	17.9	13.4	16.8	18.0	18.8	15.4	17.9	20.3
	Location Mean	17.7	19.5	17.5	13.6	16.1	18.0	18.7	16.1	17.2	19.7
	CV (%)	4.5	7.8	4.0	3.4	2.5	0.0	3.5	3.9	4.5	5.4
	F (Prob)	0	0	0	0	0	.	0.9	0.02	0	0
	CD (5%)	1.3	2.5	1.1	0.8	0.7	0.0	1.1	1.0	0.4	0.4
	CD (1%)	1.7	3.3	1.5	1.0	0.9	0.0	1.4	1.4	0.6	0.5

Table No. 2: NIVT (Medium)

Final Plant Stand (000/ha)

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH-8070	58	73	65	73	67	80	66	106	75	80	78	82	76	57	73
2	AH-8071R	62	74	68	74	71	79	81	111	80	82	76	82	66	36	65
3	AH-8181	61	75	67	72	72	74	62	134	78	86	72	79	81	58	73
4	BAUMH 11-16-1	61	68	65	78	68	79	34	125	75	84	74	78	78	64	74
5	BIO9544 (C)	57	73	65	72	71	75	66	110	78	82	76	78	78	58	73
6	BLH-111	64	74	69	81	62	73	64	101	75	79	72	80	84	59	73
7	BLH-124	57	59	59	55	60	54	64	31	70	56	76	29	56	20	45
8	BLH-135	63	70	68	73	66	74	36	130	76	83	77	78	74	61	73
9	BRM 12-7	56	73	63	58	70	70	65	103	75	76	74	55	54	7	47
10	Bisco-X1 (C)	.	61	.	7	.	37	.	116	5	.	77	.	55	.	.
11	CMH 9999	59	77	69	81	66	79	67	133	69	85	76	80	72	62	72
12	CMH1818	59	69	64	81	66	72	64	126	72	84	75	80	65	57	69
13	DH-291	58	66	62	72	64	74	67	118	77	80	76	70	67	16	57
14	DH-296	61	62	61	68	63	73	64	101	71	76	76	34	62	29	51
15	DHM117(C)	51	78	63	70	71	71	68	97	73	76	76	31	60	8	44
16	IH-0966	57	72	64	74	74	72	64	125	73	84	78	79	71	49	69
17	IH-1208	52	69	61	75	71	73	63	119	68	84	78	76	73	59	71
18	IMHSB-17R-1	61	82	73	78	65	76	82	113	75	83	78	76	71	61	72
19	IMHSB-17R-10	59	69	65	71	68	75	67	73	74	74	74	76	65	54	68
20	IMHSB-17R-11	59	70	65	83	67	73	279	120	81	82	79	78	74	56	72
21	IMHSB-17R-12	53	71	62	77	64	76	64	99	77	80	77	80	76	61	74
22	IMHSB-17R-14	63	78	70	78	67	71	51	125	76	81	77	76	68	59	70
23	IMHSB-17R-15	63	67	65	72	66	75	35	101	66	75	77	78	63	33	63
24	IMHSB-17R-16	61	75	67	78	68	76	64	140	82	87	77	83	79	53	73
25	IMHSB-17R-17	58	70	63	80	67	77	80	118	73	84	77	79	76	54	72

Table No. 2: NIVT (Medium)

Final Plant Stand (000/ha)

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	IMHSB-17R-19	61	67	65	80	67	76	81	112	72	80	80	79	61	58	69
27	IMHSB-17R-2	57	73	65	83	68	78	64	111	74	82	78	75	76	59	72
28	IMHSB-17R-20	61	66	63	73	64	78	81	123	78	83	76	81	84	57	74
29	IMHSB-17R-3	61	78	68	75	66	73	67	122	76	84	76	79	76	59	73
30	IMHSB-17R-4	61	68	66	80	65	74	67	130	68	84	79	77	74	64	73
31	IMHSB-17R-5	59	69	64	72	62	81	65	131	74	82	76	83	63	52	68
32	IMHSB-17R-6	58	71	64	83	70	77	80	107	77	83	77	74	66	60	70
33	IMHSB-17R-7	58	66	63	84	63	74	82	115	73	81	78	81	75	58	72
34	IMHSB-17R-8	57	65	62	81	65	79	79	122	76	84	79	79	70	40	68
35	IMHSB-17R-9	54	73	64	79	67	72	35	121	75	81	75	79	74	66	74
36	MEH17-11	63	75	69	77	68	73	34	121	78	82	75	79	70	57	71
37	MMH17-21	53	72	64	74	64	73	64	112	76	82	76	76	76	64	73
38	MMH17-22	61	71	66	70	65	72	65	94	70	76	78	56	61	9	51
39	PM17207M	60	79	70	74	62	84	84	131	71	84	73	76	74	62	72
40	REH2016-1	59	61	60	66	64	76	65	104	78	77	79	79	63	57	69
41	REH2016-2	63	74	68	68	63	71	82	122	77	80	77	79	74	57	71
42	Seed Tech 2324 (Filler)	54	67	61	65	66	71	64	103	76	78	76	80	63	51	67
	Location Mean	59	71	65	73	66	74	70	113	73	80	76	74	70	50	68
	CV (%)	9.4	8.3	8.8	8.2	8.8	9.5	81.7	17.6	5.4	13.0	3.5	8.7	12.2	12.4	9.2
	F (Prob)	0.62	0.02	0	0	0.91	0	0.5	0	0	0	0.33	0	0	0	0
	CD (5%)	9.0	9.5	6.8	9.7	9.5	11.4	93.9	32.5	6.4	7.6	4.4	10.5	13.9	10.2	5.0
	CD (1%)	11.9	12.7	8.9	12.9	12.7	15.1	124.8	43.2	8.4	10.0	5.9	13.9	18.5	13.5	6.6

Table No. 2: (Contd.)

Final Plant Stand (000/ha)

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH-8070	68	63	75	64	69	62	77	65	68	72
2	AH-8071R	63	54	77	63	69	61	76	62	66	70
3	AH-8181	65	61	80	64	70	59	73	65	67	73
4	BAUMH 11-16-1	67	51	76	62	72	64	76	63	66	72
5	BIO9544 (C)	65	64	76	66	67	62	73	63	66	72
6	BLH-111	65	62	77	65	67	63	74	63	67	71
7	BLH-124	58	31	50	61	60	45	69	51	54	53
8	BLH-135	66	56	73	67	62	54	72	63	64	71
9	BRM 12-7	66	45	73	63	64	56	66	55	61	62
10	Bisco-X1 (C)	4	19	38	.	.	.	.	.	.	.
11	CMH 9999	65	65	78	63	63	61	78	62	67	73
12	CMH1818	67	61	82	64	73	59	79	63	68	72
13	DH-291	65	66	75	65	68	61	77	58	67	68
14	DH-296	62	46	68	63	61	58	73	58	62	63
15	DHM117(C)	60	35	73	62	68	62	71	62	62	62
16	IH-0966	64	56	74	62	67	57	73	60	63	70
17	IH-1208	66	62	75	61	70	61	73	61	66	71
18	IMHSB-17R-1	65	62	75	65	72	61	80	64	69	74
19	IMHSB-17R-10	65	51	76	62	66	53	75	62	64	67
20	IMHSB-17R-11	64	60	75	63	69	62	75	61	66	72
21	IMHSB-17R-12	64	56	77	62	73	60	78	64	66	71
22	IMHSB-17R-14	66	57	76	63	67	61	77	66	66	71
23	IMHSB-17R-15	64	55	69	62	69	67	70	57	64	67
24	IMHSB-17R-16	65	58	72	62	68	61	70	58	64	72
25	IMHSB-17R-17	67	65	74	63	69	60	76	62	67	72

Table No. 2: (Contd.)

Final Plant Stand (000/ha)

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	IMHSB-17R-19	64	45	78	61	68	48	77	61	63	69
27	IMHSB-17R-2	67	67	74	64	61	63	74	64	67	72
28	IMHSB-17R-20	63	61	77	63	64	60	76	67	67	72
29	IMHSB-17R-3	64	68	77	62	72	59	75	65	67	73
30	IMHSB-17R-4	66	56	78	65	74	63	77	62	67	73
31	IMHSB-17R-5	66	67	72	64	61	59	73	64	66	71
32	IMHSB-17R-6	66	51	74	62	74	58	74	64	65	71
33	IMHSB-17R-7	68	57	76	63	66	64	75	62	66	71
34	IMHSB-17R-8	64	56	71	63	65	57	83	65	66	71
35	IMHSB-17R-9	66	55	81	63	69	58	78	61	66	71
36	MEH17-11	65	51	72	63	64	63	75	61	64	71
37	MMH17-21	66	56	76	63	66	58	80	64	66	71
38	MMH17-22	68	31	72	63	64	57	72	60	61	64
39	PM17207M	65	58	72	66	72	62	75	63	67	73
40	REH2016-1	62	54	68	61	62	57	80	58	63	67
41	REH2016-2	66	46	77	61	65	59	69	61	62	69
42	Seed Tech 2324 (Filler)	64	52	76	62	68	61	73	59	65	69
	Location Mean	63	55	73	63	67	59	75	62	65	69
	CV (%)	4.0	15.4	11.4	2.3	5.7	8.2	5.9	6.0	8.1	10.4
	F (Prob)	0	0	0	0	0	0.01	0.08	0.02	0	0
	CD (5%)	4.2	13.7	13.7	2.4	6.3	7.9	7.2	6.0	3.1	2.7
	CD (1%)	5.6	18.2	18.2	3.1	8.3	10.5	9.6	8.0	4.1	3.6

Table No. 2: NIVT (Medium)

Days to 50% Anthesis

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH-8070	84	80	81	115	130	70	122	80	79	103	100	102	64	88	110	91
2	AH-8071R	81	81	81	116	128	68	124	81	79	104	100	101	63	88	108	90
3	AH-8181	83	78	81	110	127	68	120	81	76	104	98	102	63	86	106	89
4	BAUMH 11-16-1	82	83	82	117	133	68	125	80	81	104	101	100	63	89	109	90
5	BIO9544 (C)	82	81	81	114	130	68	122	82	80	104	100	100	62	89	106	89
6	BLH-111	81	79	79	112	129	66	119	81	78	101	98	101	61	85	104	88
7	BLH-124	82	79	80	113	129	66	122	79	80	103	99	101	61	87	107	89
8	BLH-135	81	82	81	116	131	69	123	79	82	104	101	102	65	88	109	91
9	BRM 12-7	79	78	78	107	125	67	116	79	73	99	95	101	57	83	101	86
10	Bisco-X1 (C)	.	76	.	122	.	67	.	78	.	106	.	101	.	95	.	.
11	CMH 9999	82	82	82	107	125	68	117	80	75	100	96	99	59	86	104	87
12	CMH1818	81	81	81	113	130	69	121	80	78	103	99	102	60	90	108	90
13	DH-291	82	77	80	112	127	68	117	80	79	101	98	99	59	84	107	87
14	DH-296	81	80	81	116	129	68	123	80	81	105	100	101	64	88	107	90
15	DHM117(C)	80	81	81	119	132	69	126	81	81	107	102	102	66	90	109	91
16	IH-0966	77	76	77	98	117	68	109	67	66	89	88	103	52	75	92	80
17	IH-1208	80	78	79	96	117	65	106	75	66	87	87	99	54	75	90	80
18	IMHSB-17R-1	80	80	81	111	130	69	119	80	78	102	98	99	63	84	106	88
19	IMHSB-17R-10	82	80	81	119	132	68	124	80	81	105	101	101	65	91	110	92
20	IMHSB-17R-11	80	80	80	118	131	69	122	77	79	105	100	102	66	88	108	91
21	IMHSB-17R-12	80	82	80	115	131	69	121	80	79	105	100	101	63	90	109	91
22	IMHSB-17R-14	81	82	81	118	131	68	124	80	81	104	101	99	65	88	109	90
23	IMHSB-17R-15	81	79	80	112	127	70	120	81	80	103	99	100	61	89	106	89
24	IMHSB-17R-16	82	79	80	115	128	67	122	83	81	105	100	103	66	87	109	91
25	IMHSB-17R-17	80	76	79	113	127	69	119	80	77	103	98	100	60	87	106	88

Table No. 2: NIVT (Medium)

Days to 50% Anthesis

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	IMHSB-17R-19	82	81	82	115	131	67	122	79	80	104	100	103	61	87	106	90
27	IMHSB-17R-2	82	79	81	114	131	67	122	80	79	103	99	103	63	85	107	90
28	IMHSB-17R-20	81	81	81	114	130	67	117	79	78	104	99	102	61	87	107	89
29	IMHSB-17R-3	81	82	81	110	128	67	120	80	77	102	98	100	62	81	105	87
30	IMHSB-17R-4	82	80	81	115	132	67	121	80	81	102	100	101	63	85	108	89
31	IMHSB-17R-5	82	76	79	110	127	67	119	81	76	102	98	101	60	87	107	89
32	IMHSB-17R-6	81	80	81	114	130	69	121	81	78	103	100	101	65	87	107	90
33	IMHSB-17R-7	81	79	79	119	131	68	120	81	83	106	101	99	65	88	110	91
34	IMHSB-17R-8	81	79	80	115	131	69	122	80	80	104	101	99	64	87	109	90
35	IMHSB-17R-9	80	80	80	117	131	68	126	80	80	104	101	104	64	83	110	90
36	MEH17-11	80	79	79	102	123	64	110	71	66	93	90	104	55	80	96	84
37	MMH17-21	81	80	81	113	129	69	119	79	81	102	99	101	61	87	106	89
38	MMH17-22	82	80	81	115	132	69	123	80	80	103	100	99	65	86	109	90
39	PM17207M	82	80	81	110	125	68	119	81	78	104	98	100	61	88	104	88
40	REH2016-1	81	79	80	110	125	68	120	78	76	97	97	98	56	84	104	85
41	REH2016-2	81	79	79	113	131	68	121	78	79	100	99	99	58	83	104	86
42	Seed Tech 2324 (Filler)	83	82	82	114	130	68	122	81	80	104	100	101	63	89	107	90
	Location Mean	81	80	80	113	129	68	120	79	78	102	98	101	62	86	106	89
	CV (%)	2.6	3.0	2.9	0.9	1.4	2.1	1.3	3.4	1.4	1.0	1.7	2.0	3.2	2.8	1.5	2.3
	F (Prob)	0.94	0.24	1	0	0	0.02	0	0	0	0	1	0.24	0	0	0	1
	CD (5%)	3.5	3.9	2.7	1.6	3.0	2.4	2.5	4.4	1.7	1.7	1.1	3.3	3.3	3.9	2.5	1.7
	CD (1%)	4.7	5.2	3.5	2.2	4.0	3.2	3.4	5.8	2.3	2.3	1.4	4.4	4.3	5.2	3.3	2.3

Table No. 2: (Contd.)

Days to 50% Anthesis

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH-8070	50	73	75	73	65	58	86	51	66	84
2	AH-8071R	52	73	76	75	66	59	86	52	67	84
3	AH-8181	49	70	72	72	66	59	86	50	65	82
4	BAUMH 11-16-1	53	72	76	73	69	62	89	53	68	85
5	BIO9544 (C)	51	73	74	74	65	60	85	53	67	83
6	BLH-111	52	70	74	70	64	58	83	52	65	82
7	BLH-124	47	70	72	73	64	59	84	49	65	82
8	BLH-135	52	73	76	73	68	62	87	54	68	85
9	BRM 12-7	46	68	69	65	60	57	80	48	62	79
10	Bisco-X1 (C)	49	67	73	.	.	.	.	.	.	.
11	CMH 9999	50	69	72	70	64	59	83	50	65	81
12	CMH1818	52	73	74	73	64	59	86	52	67	83
13	DH-291	49	68	71	72	63	57	83	51	64	81
14	DH-296	51	73	77	73	68	60	88	55	68	84
15	DHM117(C)	54	72	79	76	69	63	89	55	70	86
16	IH-0966	43	68	69	60	53	46	77	47	58	74
17	IH-1208	43	70	67	60	53	45	72	46	57	73
18	IMHSB-17R-1	49	72	71	74	64	60	83	51	65	82
19	IMHSB-17R-10	53	73	78	75	68	62	89	53	69	85
20	IMHSB-17R-11	52	73	77	73	68	58	85	52	67	84
21	IMHSB-17R-12	52	72	77	72	69	62	86	52	68	84
22	IMHSB-17R-14	51	71	76	72	69	61	85	53	68	84
23	IMHSB-17R-15	51	69	70	76	65	59	86	50	66	82
24	IMHSB-17R-16	54	71	73	75	69	59	86	53	68	84
25	IMHSB-17R-17	48	73	74	72	65	58	85	49	65	82

Table No. 2: (Contd.)

Days to 50% Anthesis

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	IMHSB-17R-19	50	72	74	72	66	60	86	52	67	84
27	IMHSB-17R-2	47	71	73	74	65	59	84	51	65	83
28	IMHSB-17R-20	49	72	73	73	65	58	83	51	65	82
29	IMHSB-17R-3	48	72	71	74	64	58	82	51	65	82
30	IMHSB-17R-4	51	72	72	71	66	60	86	54	67	83
31	IMHSB-17R-5	49	68	73	73	65	58	82	50	65	82
32	IMHSB-17R-6	52	73	74	72	65	57	85	51	66	83
33	IMHSB-17R-7	53	73	78	75	70	63	91	55	70	85
34	IMHSB-17R-8	52	72	73	72	66	61	85	54	67	84
35	IMHSB-17R-9	52	72	77	74	69	61	87	53	68	84
36	MEH17-11	44	66	69	64	57	55	80	49	60	76
37	MMH17-21	50	73	71	74	66	57	85	51	66	83
38	MMH17-22	53	72	78	73	68	61	88	52	68	84
39	PM17207M	51	72	70	74	66	60	84	50	66	82
40	REH2016-1	50	68	73	71	63	55	85	49	64	81
41	REH2016-2	48	71	73	70	64	57	81	51	65	81
42	Seed Tech 2324 (Filler)	54	73	71	75	67	62	87	54	68	84
	Location Mean	50	71	74	72	65	59	85	51	66	82
	CV (%)	2.3	1.9	2.2	2.3	2.0	2.8	2.7	2.5	2.4	2.1
	F (Prob)	0	0	0	0	0	0	0	0	1	1
	CD (5%)	1.9	2.2	2.6	2.7	2.2	2.7	3.7	2.1	1.0	0.7
	CD (1%)	2.5	3.0	3.5	3.5	2.9	3.5	5.0	2.8	1.3	0.9

Table No. 2: NIVT (Medium)

Days to 50% Silking

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH-8070	87	83	85	116	132	72	126	82	83	106	102	106	68	88	113	93
2	AH-8071R	84	83	84	118	130	70	127	83	83	108	103	104	67	90	112	93
3	AH-8181	87	81	84	111	129	70	123	84	81	107	101	106	66	88	109	92
4	BAUMH 11-16-1	86	86	85	119	135	71	127	84	84	108	104	103	66	92	113	93
5	BIO9544 (C)	86	83	84	115	132	71	124	83	84	108	102	104	65	91	110	93
6	BLH-111	85	81	82	113	131	70	123	83	82	106	101	105	64	87	108	91
7	BLH-124	86	81	84	114	131	69	125	82	84	107	101	104	65	89	110	92
8	BLH-135	84	85	84	117	133	71	126	83	85	107	103	105	68	91	112	94
9	BRM 12-7	83	80	81	109	127	70	118	82	79	103	98	104	60	85	104	88
10	Bisco-X1 (C)	.	80	.	123	.	69	.	79	.	110	.	104	.	95	.	.
11	CMH 9999	85	84	85	111	128	71	121	80	80	103	99	102	62	86	107	90
12	CMH1818	84	84	84	115	132	72	124	82	82	107	102	106	63	93	112	94
13	DH-291	86	79	83	114	129	71	120	81	83	106	101	104	62	85	110	90
14	DH-296	85	82	84	117	131	71	126	83	84	109	103	105	67	89	111	93
15	DHM117(C)	84	84	84	121	134	72	128	84	86	112	105	105	69	93	112	94
16	IH-0966	82	78	81	100	119	71	111	70	72	93	91	106	55	76	95	83
17	IH-1208	83	80	82	98	119	69	111	77	72	92	91	103	57	76	94	82
18	IMHSB-17R-1	84	82	83	114	131	71	122	82	83	106	101	102	66	86	109	91
19	IMHSB-17R-10	86	82	84	120	135	71	127	81	84	109	104	104	68	93	113	94
20	IMHSB-17R-11	84	83	83	120	133	72	125	81	83	109	103	105	69	89	112	94
21	IMHSB-17R-12	84	84	84	115	134	72	125	83	83	108	103	105	66	92	113	94
22	IMHSB-17R-14	85	84	84	119	134	71	126	82	84	109	104	101	68	89	113	93
23	IMHSB-17R-15	85	81	83	113	129	72	123	84	83	106	101	104	64	88	108	91
24	IMHSB-17R-16	85	82	84	115	130	70	124	85	84	109	103	107	68	88	112	94
25	IMHSB-17R-17	83	78	81	114	129	72	122	83	82	106	101	103	64	87	109	91

Table No. 2: NIVT (Medium)

Days to 50% Silking

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	IMHSB-17R-19	86	83	85	116	133	70	126	81	83	107	102	107	64	88	109	93
27	IMHSB-17R-2	85	82	84	116	133	69	125	82	83	107	102	106	66	87	111	93
28	IMHSB-17R-20	84	84	84	115	132	70	121	82	82	107	101	105	64	87	111	92
29	IMHSB-17R-3	85	84	84	113	130	70	122	82	83	106	101	104	65	83	108	90
30	IMHSB-17R-4	85	82	84	118	134	70	124	82	85	107	103	104	66	87	112	92
31	IMHSB-17R-5	85	79	82	112	129	70	123	82	81	105	100	105	64	88	110	92
32	IMHSB-17R-6	84	83	84	116	132	72	124	84	82	107	102	105	69	88	111	93
33	IMHSB-17R-7	84	82	82	120	133	71	123	83	86	110	104	103	68	90	114	94
34	IMHSB-17R-8	85	81	83	117	134	72	126	83	84	107	103	103	67	90	112	93
35	IMHSB-17R-9	84	83	83	118	134	71	128	83	83	108	104	107	67	84	113	93
36	MEH17-11	84	82	82	105	125	67	113	80	73	98	94	107	58	82	100	87
37	MMH17-21	85	82	84	114	131	71	123	82	84	106	102	105	64	89	109	92
38	MMH17-22	86	83	84	117	134	72	126	83	83	108	103	102	68	89	113	93
39	PM17207M	85	82	84	112	128	71	123	81	82	107	101	103	63	89	107	91
40	REH2016-1	85	81	83	111	127	71	123	80	81	102	100	101	59	86	107	88
41	REH2016-2	85	82	83	114	133	70	125	81	83	105	101	102	61	85	108	89
42	Seed Tech 2324 (Filler)	86	84	85	115	132	72	125	84	84	107	102	104	66	90	110	92
	Location Mean	85	82	83	115	131	71	123	82	82	106	101	104	65	88	109	92
	CV (%)	2.4	2.9	2.7	0.9	1.5	2.1	1.5	2.6	1.0	1.1	1.6	2.0	3.1	3.6	1.4	2.5
	F (Prob)	0.86	0.17	1	0	0	0.07	0	0	0	0	1	0.2	0	0	0	1
	CD (5%)	3.4	3.9	2.6	1.6	3.1	2.5	3.0	3.5	1.4	1.9	1.0	3.4	3.3	5.2	2.6	2.0
	CD (1%)	4.5	5.1	3.5	2.2	4.1	3.3	4.0	4.7	1.8	2.5	1.3	4.6	4.4	6.9	3.4	2.6

Table No. 2: (Contd.)

Days to 50% Silking

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH-8070	54	73	78	74	69	60	88	54	69	86
2	AH-8071R	56	75	79	77	71	61	89	54	70	87
3	AH-8181	53	72	75	73	68	61	87	53	68	85
4	BAUMH 11-16-1	57	74	79	75	72	64	91	57	71	88
5	BIO9544 (C)	55	74	77	76	68	62	87	55	69	86
6	BLH-111	56	72	77	73	69	60	85	55	69	85
7	BLH-124	52	73	75	75	67	61	86	53	68	85
8	BLH-135	55	75	79	75	71	64	88	57	70	87
9	BRM 12-7	50	70	73	67	63	59	81	52	64	82
10	Bisco-X1 (C)	53	68	76	.	.	.	.	.	.	.
11	CMH 9999	54	71	75	72	68	61	84	53	67	84
12	CMH1818	56	73	77	74	69	61	88	56	69	86
13	DH-291	53	71	74	73	68	59	85	54	67	84
14	DH-296	56	75	80	75	71	63	90	58	71	87
15	DHM117(C)	57	72	82	78	74	66	91	58	72	89
16	IH-0966	46	69	72	62	56	48	78	50	60	77
17	IH-1208	47	71	70	62	55	47	74	49	59	76
18	IMHSB-17R-1	54	74	74	76	69	61	85	54	68	85
19	IMHSB-17R-10	57	73	81	76	72	64	91	56	71	88
20	IMHSB-17R-11	57	73	80	75	72	60	87	55	70	87
21	IMHSB-17R-12	56	74	80	74	71	64	88	56	70	87
22	IMHSB-17R-14	54	72	79	74	71	63	87	56	70	87
23	IMHSB-17R-15	54	70	73	78	67	61	87	53	68	85
24	IMHSB-17R-16	58	72	76	77	71	61	88	57	70	87
25	IMHSB-17R-17	52	73	77	73	67	60	87	52	68	85

Table No. 2: (Contd.)

Days to 50% Silking

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	IMHSB-17R-19	54	73	77	74	69	63	88	56	69	86
27	IMHSB-17R-2	52	74	76	75	68	62	85	54	68	86
28	IMHSB-17R-20	53	73	76	74	68	60	84	54	68	85
29	IMHSB-17R-3	52	72	74	76	69	60	83	55	68	84
30	IMHSB-17R-4	57	75	75	74	71	62	88	58	70	86
31	IMHSB-17R-5	55	71	76	74	69	60	84	53	68	85
32	IMHSB-17R-6	56	74	77	74	69	59	88	55	69	86
33	IMHSB-17R-7	58	75	81	77	73	65	93	58	73	88
34	IMHSB-17R-8	56	74	76	74	70	62	86	58	70	87
35	IMHSB-17R-9	55	74	80	76	71	62	89	57	70	87
36	MEH17-11	48	69	72	66	61	54	81	53	63	80
37	MMH17-21	54	74	74	76	70	59	88	54	69	85
38	MMH17-22	56	74	80	75	71	63	91	56	71	87
39	PM17207M	55	72	73	76	69	62	85	53	68	85
40	REH2016-1	55	71	76	73	67	57	87	53	67	84
41	REH2016-2	52	72	76	72	70	59	83	54	67	84
42	Seed Tech 2324 (Filler)	58	75	74	77	70	64	89	57	70	87
	Location Mean	54	73	76	74	69	61	86	55	68	85
	CV (%)	2.1	1.9	2.2	2.2	2.1	2.2	2.7	2.3	2.3	2.1
	F (Prob)	0	0	0	0	0	0	0	0	1	1
	CD (5%)	1.8	2.2	2.7	2.6	2.3	2.2	3.8	2.1	0.9	0.7
	CD (1%)	2.4	3.0	3.6	3.5	3.1	2.9	5.1	2.8	1.2	0.9

Table No. 2: NIVT (Medium)

Days to 75% Dry Husk

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH-8070	117	113	114	150	161	109	162	129	121	146	140	148	127	124	150	137
2	AH-8071R	115	113	114	153	159	109	160	129	122	145	140	145	126	125	150	137
3	AH-8181	118	112	115	151	161	112	157	130	116	148	139	149	126	123	149	136
4	BAUMH 11-16-1	117	114	115	150	163	109	159	128	123	144	139	151	127	124	147	137
5	BIO9544 (C)	116	113	114	150	160	109	161	128	121	149	140	145	124	126	149	136
6	BLH-111	115	109	112	150	162	110	157	131	121	145	140	145	123	122	150	135
7	BLH-124	116	113	114	145	161	109	161	129	122	145	139	144	125	125	151	136
8	BLH-135	114	114	114	152	162	108	162	130	121	151	141	149	126	125	151	138
9	BRM 12-7	113	108	111	145	161	108	156	129	119	138	137	147	122	121	146	134
10	Bisco-X1 (C)	.	112	.	150	.	107	.	130	.	151	.	143	.	125	.	.
11	CMH 9999	114	113	113	150	158	109	159	128	118	146	138	146	122	126	149	136
12	CMH1818	115	113	114	148	162	110	160	129	121	144	139	147	125	124	150	136
13	DH-291	113	106	110	149	159	109	158	129	117	143	138	141	123	123	149	134
14	DH-296	115	112	114	151	162	110	161	128	122	148	140	145	126	124	152	137
15	DHM117(C)	116	112	114	154	163	108	161	130	124	144	141	147	127	128	152	138
16	IH-0966	111	107	110	137	149	108	153	128	109	131	131	146	123	112	139	130
17	IH-1208	112	110	111	135	145	107	151	130	107	128	129	143	122	111	138	129
18	IMHSB-17R-1	114	112	114	152	161	107	157	131	120	142	138	145	126	123	149	136
19	IMHSB-17R-10	116	111	113	153	163	110	160	129	122	143	140	148	128	125	149	138
20	IMHSB-17R-11	116	112	114	153	164	110	161	131	121	147	141	147	127	126	151	138
21	IMHSB-17R-12	112	112	111	150	163	110	158	129	122	144	139	147	125	125	151	137
22	IMHSB-17R-14	111	112	111	152	163	109	161	129	122	147	141	146	126	126	151	137
23	IMHSB-17R-15	113	113	112	146	161	110	161	130	121	150	140	148	125	126	152	137
24	IMHSB-17R-16	116	113	114	152	161	107	161	129	123	151	141	148	128	121	149	136
25	IMHSB-17R-17	111	109	111	153	163	110	160	129	118	150	140	146	124	125	150	137

Table No. 2: NIVT (Medium)

Days to 75% Dry Husk

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	IMHSB-17R-19	116	112	114	150	163	107	159	129	122	142	139	147	124	122	149	136
27	IMHSB-17R-2	117	112	115	150	159	108	159	128	121	141	138	148	125	121	149	136
28	IMHSB-17R-20	112	112	112	150	160	108	157	130	118	141	138	142	124	121	148	134
29	IMHSB-17R-3	116	114	115	149	160	110	158	130	118	141	138	147	125	122	150	136
30	IMHSB-17R-4	114	111	112	152	163	106	162	130	121	143	139	146	126	124	150	136
31	IMHSB-17R-5	115	108	112	147	159	107	156	130	119	139	137	144	124	121	146	134
32	IMHSB-17R-6	114	112	113	151	162	108	158	129	119	142	138	146	128	124	149	137
33	IMHSB-17R-7	112	111	111	153	163	109	160	129	122	148	140	144	127	123	152	137
34	IMHSB-17R-8	115	110	113	151	163	110	161	128	122	144	140	147	126	125	150	137
35	IMHSB-17R-9	113	112	112	149	161	109	159	129	120	144	139	148	127	124	150	137
36	MEH17-11	114	110	112	141	155	103	153	129	105	135	132	146	121	120	140	132
37	MMH17-21	115	110	112	154	162	108	160	130	121	145	140	146	123	123	151	136
38	MMH17-22	115	113	114	155	163	109	161	131	124	145	141	147	127	126	153	138
39	PM17207M	114	110	113	153	161	109	162	129	119	147	140	144	124	126	150	136
40	REH2016-1	114	112	113	147	158	109	158	130	119	143	138	146	122	120	148	134
41	REH2016-2	114	111	112	150	161	109	160	130	123	145	140	147	123	121	149	135
42	Seed Tech 2324 (Filler)	117	114	115	154	163	110	160	130	120	150	141	145	126	123	149	136
	Location Mean	114	111	113	150	161	109	159	129	120	144	139	146	125	123	149	136
	CV (%)	2.5	2.5	2.5	2.3	1.1	1.6	0.9	0.9	1.5	1.3	1.5	2.0	1.3	1.5	1.2	1.6
	F (Prob)	0.42	0.29	1	0	0	0	0	0.23	0	0	1	0.49	0	0	0	1
	CD (5%)	4.7	4.6	3.3	5.6	2.9	2.8	2.4	1.9	2.9	3.1	1.3	4.8	2.7	3.1	2.9	1.8
	CD (1%)	6.2	6.1	4.4	7.4	3.9	3.8	3.2	2.5	3.8	4.2	1.7	6.4	3.6	4.1	3.8	2.4

Table No. 2: (Contd.)

Days to 75% Dry Husk

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH-8070	91	106	114	115	112	105	123	93	108	125
2	AH-8071R	94	107	115	117	115	106	123	93	109	125
3	AH-8181	91	107	111	115	112	106	126	92	107	124
4	BAUMH 11-16-1	93	108	115	114	113	109	126	95	109	125
5	BIO9544 (C)	94	108	112	116	116	107	124	94	109	125
6	BLH-111	93	105	113	113	114	105	122	93	107	124
7	BLH-124	90	106	112	115	115	106	127	92	108	124
8	BLH-135	94	107	115	115	115	109	124	95	109	126
9	BRM 12-7	89	105	109	108	110	104	121	91	104	121
10	Bisco-X1 (C)	92	102	112	.	.	.	.	.	.	.
11	CMH 9999	93	105	111	112	114	107	125	91	107	124
12	CMH1818	94	106	112	114	111	106	120	94	107	124
13	DH-291	91	105	111	113	112	104	121	93	106	122
14	DH-296	93	108	115	114	114	108	125	95	109	125
15	DHM117(C)	95	106	117	118	116	110	124	97	111	126
16	IH-0966	86	103	110	103	106	93	118	90	101	117
17	IH-1208	86	105	108	102	109	92	120	90	102	117
18	IMHSB-17R-1	93	106	110	116	114	106	127	93	108	124
19	IMHSB-17R-10	95	107	116	116	115	108	124	94	110	125
20	IMHSB-17R-11	95	107	116	115	117	105	129	94	110	126
21	IMHSB-17R-12	94	105	115	116	113	109	121	94	108	124
22	IMHSB-17R-14	93	105	114	114	114	108	124	94	109	125
23	IMHSB-17R-15	93	103	109	118	116	106	127	93	108	125
24	IMHSB-17R-16	95	106	113	117	119	107	127	95	110	126
25	IMHSB-17R-17	90	108	113	114	114	105	127	92	108	124

Table No. 2: (Contd.)

Days to 75% Dry Husk

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	IMHSB-17R-19	94	107	112	114	113	106	121	94	108	124
27	IMHSB-17R-2	91	105	112	116	112	108	119	93	107	124
28	IMHSB-17R-20	92	106	113	113	112	105	120	93	107	123
29	IMHSB-17R-3	91	106	110	116	112	105	122	93	107	124
30	IMHSB-17R-4	95	106	111	114	115	107	126	95	109	125
31	IMHSB-17R-5	93	106	113	114	112	105	119	92	107	122
32	IMHSB-17R-6	94	106	113	114	112	104	125	94	108	124
33	IMHSB-17R-7	95	107	116	117	117	110	128	96	111	126
34	IMHSB-17R-8	94	107	111	114	114	107	126	95	109	125
35	IMHSB-17R-9	94	107	115	116	116	108	122	95	109	125
36	MEH17-11	87	103	109	105	108	99	122	92	103	119
37	MMH17-21	94	107	110	116	113	104	124	92	108	124
38	MMH17-22	93	109	116	115	113	108	126	94	109	126
39	PM17207M	93	105	109	116	116	108	124	93	108	124
40	REH2016-1	93	105	111	113	113	102	123	92	107	123
41	REH2016-2	91	105	112	112	114	104	123	93	107	124
42	Seed Tech 2324 (Filler)	95	109	111	117	113	110	127	95	109	125
	Location Mean	93	106	112	114	113	106	124	93	108	124
	CV (%)	1.3	1.5	1.5	1.5	2.3	1.2	1.7	1.0	1.6	1.6
	F (Prob)	0	0	0	0	0	0	0	0	1	1
	CD (5%)	2.0	2.5	2.7	2.8	4.2	2.0	3.4	1.5	1.0	0.7
	CD (1%)	2.6	3.4	3.6	3.8	5.6	2.6	4.5	2.0	1.3	1.0

Table No. 2: NIVT (Medium)

Plant Height

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH-8070	231	182	207	173	188	185	199	251	251	244	212	182	189	172	239	197
2	AH-8071R	255	187	221	178	182	182	208	299	235	230	216	188	183	168	238	195
3	AH-8181	212	180	194	170	179	193	176	263	217	187	197	191	191	167	223	193
4	BAUMH 11-16-1	208	178	194	156	165	169	162	256	220	188	188	194	166	144	223	183
5	BIO9544 (C)	193	171	183	154	152	180	158	269	213	202	190	193	157	124	205	170
6	BLH-111	234	182	208	176	179	193	195	274	213	237	210	199	204	164	240	203
7	BLH-124	229	176	204	191	181	197	199	276	244	234	220	194	206	164	236	200
8	BLH-135	252	186	222	188	186	184	201	272	228	238	214	189	208	165	251	203
9	BRM 12-7	235	175	201	169	164	180	171	289	201	200	196	194	193	149	216	187
10	Bisco-X1 (C)	.	130	.	152	.	193	.	251	.	231	.	200	.	140	.	.
11	CMH 9999	188	184	190	152	170	177	173	262	217	209	194	187	179	158	214	184
12	CMH1818	220	170	196	161	164	177	173	247	199	195	189	195	164	134	199	174
13	DH-291	194	168	181	141	150	163	156	273	206	200	184	193	159	140	177	168
14	DH-296	213	178	194	172	178	175	180	276	240	204	204	190	170	146	213	179
15	DHM117(C)	228	163	193	160	194	177	189	275	220	220	204	186	173	167	211	184
16	IH-0966	153	167	161	118	146	144	136	236	178	197	164	195	153	159	171	169
17	IH-1208	166	176	170	101	149	152	129	249	166	165	160	197	159	143	153	163
18	IMHSB-17R-1	236	170	201	160	177	185	171	286	234	221	205	187	192	163	225	192
19	IMHSB-17R-10	244	177	211	166	188	191	174	272	232	224	207	193	187	163	240	196
20	IMHSB-17R-11	214	167	191	152	174	163	189	258	204	215	193	196	176	148	207	181
21	IMHSB-17R-12	223	170	195	169	184	185	191	257	238	221	206	199	201	159	235	200
22	IMHSB-17R-14	249	175	210	177	184	183	182	264	245	211	206	185	208	161	237	197
23	IMHSB-17R-15	227	181	206	156	151	182	164	249	195	204	186	189	163	145	217	179
24	IMHSB-17R-16	215	187	203	160	179	188	188	269	217	225	203	186	178	174	219	190
25	IMHSB-17R-17	254	177	213	161	182	179	181	285	197	222	200	194	177	149	215	184

Table No. 2: NIVT (Medium)

Plant Height

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	IMHSB-17R-19	216	186	204	161	177	175	176	253	235	211	199	195	173	149	234	186
27	IMHSB-17R-2	238	178	211	172	198	189	190	269	226	227	211	190	184	162	228	190
28	IMHSB-17R-20	250	178	212	181	187	179	190	250	227	235	206	199	201	169	236	201
29	IMHSB-17R-3	222	175	195	153	156	176	164	259	178	208	184	192	185	154	212	186
30	IMHSB-17R-4	225	178	204	160	184	176	178	246	211	215	196	194	183	140	223	186
31	IMHSB-17R-5	244	176	212	173	188	197	179	260	230	217	207	195	207	164	230	198
32	IMHSB-17R-6	224	173	197	161	171	168	183	269	211	221	196	193	176	162	211	186
33	IMHSB-17R-7	208	181	197	165	179	184	159	256	226	223	199	196	182	169	225	193
34	IMHSB-17R-8	228	179	204	163	183	183	183	268	222	184	199	185	192	162	224	191
35	IMHSB-17R-9	212	176	197	162	171	191	166	249	212	220	196	191	190	165	219	191
36	MEH17-11	176	169	172	125	150	146	156	260	192	183	173	193	168	117	168	161
37	MMH17-21	194	173	184	150	165	163	164	253	207	189	185	189	169	147	218	181
38	MMH17-22	228	181	202	166	180	179	177	250	223	215	200	190	180	148	218	184
39	PM17207M	247	175	210	190	194	184	190	332	251	256	228	188	215	170	241	204
40	REH2016-1	246	179	214	163	169	190	185	248	221	220	199	190	188	163	224	192
41	REH2016-2	269	183	223	161	183	185	194	266	222	219	203	185	191	163	224	190
42	Seed Tech 2324 (Filler)	192	178	185	171	178	200	185	263	233	217	208	190	191	165	237	197
	Location Mean	222	176	198	162	175	180	177	265	218	214	199	192	183	156	219	187
	CV (%)	9.2	6.1	8.2	4.1	6.1	5.6	9.7	8.1	5.6	7.2	7.1	3.7	5.1	8.8	4.5	5.5
	F (Prob)	0	0.01	1	0	0	0	0	0.11	0	0	1	0.47	0	0	0	1
	CD (5%)	33.4	17.5	18.8	10.9	17.4	16.5	27.9	35.1	19.8	25.2	9.1	11.4	15.3	22.3	16.0	9.0
	CD (1%)	44.4	23.2	24.9	14.4	23.1	21.9	37.1	46.6	26.2	33.4	12.0	15.1	20.4	29.6	21.3	11.8

Table No. 2: (Contd.)

Plant Height

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH-8070	201	189	178	195	247	243	278	199	218	211
2	AH-8071R	203	175	183	183	247	230	286	205	215	212
3	AH-8181	200	191	195	175	227	227	277	209	212	202
4	BAUMH 11-16-1	182	144	170	173	218	213	224	182	188	188
5	BIO9544 (C)	173	170	161	162	229	211	241	193	192	186
6	BLH-111	198	183	198	160	245	276	290	208	221	213
7	BLH-124	186	199	197	180	254	285	275	197	220	215
8	BLH-135	212	176	184	192	242	239	288	204	216	213
9	BRM 12-7	179	165	168	169	237	184	249	185	191	193
10	Bisco-X1 (C)	215	189	112	.	.	.	.	.	.	.
11	CMH 9999	186	174	175	152	238	210	252	199	198	193
12	CMH1818	178	163	157	165	214	205	251	178	188	186
13	DH-291	182	160	157	148	208	250	239	186	193	184
14	DH-296	192	161	154	183	218	217	261	204	198	196
15	DHM117(C)	198	178	174	174	236	242	268	202	209	201
16	IH-0966	172	174	144	163	208	203	217	171	181	171
17	IH-1208	166	149	133	152	207	219	193	168	172	166
18	IMHSB-17R-1	185	167	162	173	240	251	252	197	204	202
19	IMHSB-17R-10	202	167	164	166	240	248	282	208	209	206
20	IMHSB-17R-11	161	154	146	164	237	215	244	182	188	188
21	IMHSB-17R-12	196	182	175	193	231	254	268	203	213	207
22	IMHSB-17R-14	197	165	196	190	248	265	274	200	217	209
23	IMHSB-17R-15	183	159	168	152	236	213	247	184	194	190
24	IMHSB-17R-16	195	175	176	184	237	239	268	195	210	203
25	IMHSB-17R-17	171	170	170	166	235	211	256	187	196	197

Table No. 2: (Contd.)

Plant Height

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	IMHSB-17R-19	188	150	146	162	220	229	265	173	191	193
27	IMHSB-17R-2	205	185	187	184	245	242	278	195	215	208
28	IMHSB-17R-20	209	182	179	191	245	261	279	209	220	211
29	IMHSB-17R-3	180	169	181	165	211	236	237	191	196	190
30	IMHSB-17R-4	192	170	176	182	241	234	263	198	207	199
31	IMHSB-17R-5	208	186	173	193	237	248	254	212	214	208
32	IMHSB-17R-6	173	148	151	153	237	219	249	194	191	192
33	IMHSB-17R-7	199	185	164	168	251	239	263	206	209	202
34	IMHSB-17R-8	186	169	182	165	243	297	267	196	213	203
35	IMHSB-17R-9	189	163	164	179	236	261	279	197	207	199
36	MEH17-11	159	153	137	162	199	202	226	170	176	172
37	MMH17-21	182	155	161	158	232	206	241	176	189	185
38	MMH17-22	185	169	163	173	238	232	251	194	201	198
39	PM17207M	205	163	183	190	252	285	299	198	223	220
40	REH2016-1	177	161	188	154	244	257	271	198	207	202
41	REH2016-2	189	180	156	163	238	248	245	198	202	202
42	Seed Tech 2324 (Filler)	184	172	184	166	253	285	265	207	215	206
	Location Mean	189	170	168	171	234	237	259	194	203	198
	CV (%)	5.6	7.0	10.5	10.0	3.6	13.3	4.9	5.6	8.2	7.5
	F (Prob)	0	0	0	0.03	0	0.01	0	0	1	1
	CD (5%)	17.3	19.5	28.9	27.9	13.9	51.5	20.6	17.7	9.9	5.4
	CD (1%)	23.0	25.9	38.4	37.1	18.4	68.4	27.4	23.6	13.0	7.2

Table No. 2: NIVT (Medium)

Ear Height

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH-8070	125	71	98	93	90	90	100	101	132	138	105	96	99	91	104	98
2	AH-8071R	157	87	121	109	97	91	109	99	135	128	110	100	104	88	100	98
3	AH-8181	112	80	95	84	85	91	83	95	126	84	92	91	109	83	87	92
4	BAUMH 11-16-1	125	79	101	90	80	84	88	94	128	115	97	94	95	88	87	91
5	BIO9544 (C)	102	74	88	98	69	87	86	109	123	105	97	97	90	64	86	84
6	BLH-111	124	82	102	95	85	94	86	106	107	120	99	100	108	81	89	96
7	BLH-124	127	77	106	91	76	94	86	109	135	122	103	88	106	79	103	94
8	BLH-135	146	87	115	109	71	91	107	99	122	130	104	97	123	84	111	103
9	BRM 12-7	127	75	99	86	70	79	71	100	100	92	86	94	105	61	73	83
10	Bisco-X1 (C)	.	68	.	64	.	90	.	104	.	104	.	94	.	72	.	.
11	CMH 9999	113	85	98	77	78	82	84	102	114	108	92	96	99	78	81	89
12	CMH1818	129	70	101	105	77	89	92	99	118	114	100	98	110	68	90	92
13	DH-291	107	67	88	73	62	74	76	99	116	102	86	103	74	66	69	78
14	DH-296	116	79	95	92	78	77	87	102	127	93	94	92	89	68	86	84
15	DHM117(C)	121	64	93	85	83	84	96	99	113	115	96	90	94	93	88	91
16	IH-0966	78	69	73	48	61	61	60	100	90	97	74	96	82	78	59	79
17	IH-1208	73	76	78	38	52	66	42	98	79	76	65	98	76	65	59	74
18	IMHSB-17R-1	126	71	101	91	82	96	90	104	126	113	101	91	110	88	95	96
19	IMHSB-17R-10	114	76	97	86	74	90	75	101	120	115	95	96	91	86	92	91
20	IMHSB-17R-11	116	68	92	79	67	77	92	100	109	96	89	96	95	75	76	84
21	IMHSB-17R-12	120	72	95	83	69	90	88	102	118	112	94	98	107	73	97	94
22	IMHSB-17R-14	129	75	101	89	73	89	80	89	124	107	93	91	102	75	91	89
23	IMHSB-17R-15	123	81	104	83	70	83	84	97	107	105	89	94	89	63	86	84
24	IMHSB-17R-16	117	87	103	79	78	85	86	107	113	113	93	92	88	86	82	88
25	IMHSB-17R-17	133	77	103	89	87	81	93	98	91	113	94	93	97	67	89	86

Table No. 2: NIVT (Medium)

Ear Height

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	IMHSB-17R-19	117	87	102	93	72	84	83	106	118	108	95	94	86	64	92	83
27	IMHSB-17R-2	131	79	105	88	90	88	89	103	123	116	100	90	97	82	96	91
28	IMHSB-17R-20	118	79	99	93	80	79	93	98	124	114	97	97	114	83	94	96
29	IMHSB-17R-3	125	78	99	91	80	84	88	103	117	105	95	92	109	90	87	94
30	IMHSB-17R-4	121	77	100	86	80	80	79	103	110	111	92	91	103	70	88	88
31	IMHSB-17R-5	123	76	100	81	72	92	83	101	124	112	95	100	115	85	91	98
32	IMHSB-17R-6	118	77	97	87	66	76	83	102	105	107	89	92	88	76	84	85
33	IMHSB-17R-7	108	83	97	80	71	85	83	101	122	117	94	98	84	88	83	88
34	IMHSB-17R-8	133	79	106	88	84	89	91	100	114	112	98	96	97	84	98	94
35	IMHSB-17R-9	117	77	97	91	68	92	85	99	109	114	94	95	99	96	89	94
36	MEH17-11	93	69	79	57	63	63	82	96	101	81	78	93	97	58	63	77
37	MMH17-21	118	76	99	87	78	78	97	103	115	102	94	93	95	72	93	88
38	MMH17-22	125	84	105	98	79	97	94	103	136	109	103	94	98	90	94	95
39	PM17207M	134	75	104	92	64	76	102	106	116	115	96	98	116	80	86	94
40	REH2016-1	137	79	107	93	58	90	98	103	115	110	94	100	100	89	85	95
41	REH2016-2	152	84	117	91	72	87	98	94	123	120	98	92	106	85	92	93
42	Seed Tech 2324 (Filler)	102	77	91	79	76	98	92	104	110	113	96	97	95	79	86	90
	Location Mean	120	77	98	86	75	85	87	101	116	109	94	95	99	78	87	90
	CV (%)	10.9	12.3	11.6	6.6	13.8	8.3	11.8	5.3	6.1	8.2	8.5	5.6	9.3	15.7	7.6	9.8
	F (Prob)	0	0.55	0	0	0	0	0	0.11	0	0	0	0.53	0	0.02	0	0
	CD (5%)	21.3	15.5	13.4	9.2	16.8	11.4	16.8	8.7	11.5	14.6	5.2	8.7	14.9	20.0	10.9	7.6
	CD (1%)	28.3	20.6	17.7	12.2	22.3	15.1	22.3	11.5	15.3	19.4	6.9	11.6	19.9	26.5	14.4	10.1

Table No. 2: (Contd.)

Ear Height

S. No.	Entry Name	PZ (ZONE-IV)									All India
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH-8070	117	103	104	113	130	118	183	109	126	110
2	AH-8071R	111	81	109	95	127	121	195	120	125	114
3	AH-8181	107	100	100	92	117	97	166	114	112	100
4	BAUMH 11-16-1	101	81	97	98	110	106	155	98	110	101
5	BIO9544 (C)	103	95	90	102	123	106	151	100	111	98
6	BLH-111	113	73	101	97	127	109	166	109	117	105
7	BLH-124	107	97	89	92	131	100	167	103	112	105
8	BLH-135	113	99	96	100	127	101	179	115	119	110
9	BRM 12-7	86	89	76	83	120	84	144	84	96	90
10	Bisco-X1 (C)	105	97	49	.	.	.	.	.	.	.
11	CMH 9999	92	85	94	75	122	94	153	108	105	97
12	CMH1818	97	91	86	105	108	100	170	98	109	101
13	DH-291	93	86	73	93	103	83	137	91	96	88
14	DH-296	99	82	73	85	111	81	158	102	101	95
15	DHM117(C)	118	90	101	99	122	103	164	111	117	102
16	IH-0966	78	86	47	103	103	68	121	85	86	79
17	IH-1208	86	73	61	84	103	75	106	81	85	75
18	IMHSB-17R-1	107	87	87	105	128	101	166	108	115	105
19	IMHSB-17R-10	99	82	82	85	121	91	169	96	105	98
20	IMHSB-17R-11	80	78	73	75	119	79	136	81	93	89
21	IMHSB-17R-12	106	85	95	90	114	104	157	104	110	100
22	IMHSB-17R-14	94	82	103	82	124	93	168	99	110	99
23	IMHSB-17R-15	96	82	81	73	119	104	151	94	104	95
24	IMHSB-17R-16	99	149	91	92	120	91	156	99	107	98
25	IMHSB-17R-17	84	91	79	95	121	93	153	102	102	96

Table No. 2: (Contd.)

Ear Height

S. No.	Entry Name	PZ (ZONE-IV)									All India
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	IMHSB-17R-19	105	79	72	70	111	91	159	89	100	95
27	IMHSB-17R-2	113	100	101	103	129	100	178	104	117	105
28	IMHSB-17R-20	109	91	86	91	119	93	154	111	110	101
29	IMHSB-17R-3	103	90	97	102	110	98	150	112	110	101
30	IMHSB-17R-4	105	91	86	99	118	102	161	102	110	99
31	IMHSB-17R-5	122	94	88	99	120	99	148	114	113	102
32	IMHSB-17R-6	99	86	74	92	120	98	151	96	103	94
33	IMHSB-17R-7	103	75	74	79	127	104	154	108	107	98
34	IMHSB-17R-8	94	83	93	101	125	99	163	102	110	102
35	IMHSB-17R-9	95	90	96	85	117	99	181	102	110	100
36	MEH17-11	72	81	63	89	99	90	137	83	92	82
37	MMH17-21	102	87	88	93	120	100	165	103	111	99
38	MMH17-22	112	86	97	96	128	98	167	104	114	106
39	PM17207M	109	91	85	101	125	95	167	94	111	102
40	REH2016-1	100	78	90	86	127	92	173	109	111	102
41	REH2016-2	113	96	89	93	121	102	153	109	112	104
42	Seed Tech 2324 (Filler)	89	70	89	87	125	96	153	103	106	98
	Location Mean	101	88	86	92	119	96	158	101	108	98
	CV (%)	8.3	21.3	14.6	12.4	5.4	12.0	6.9	6.3	9.3	9.4
	F (Prob)	0	0.33	0	0.02	0	0	0	0	0	0
	CD (5%)	13.7	30.7	20.4	18.7	10.5	18.9	17.9	10.4	6.3	3.5
	CD (1%)	18.2	40.8	27.1	24.8	13.9	25.1	23.8	13.8	8.3	4.6

Table No. 2: NIVT (Medium)

Initial Plant Stand

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							NWPZ (ZONE-II)		
		BANS	GODH	ZONE	VARA	BAHA	DHOL	NADI	RANC	SABO	ZONE	KARN	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH-8070	29	35	32	35	34	40	40	41	37	38	41	36	38
2	AH-8071R	30	36	33	35	38	39	40	41	38	39	40	24	32
3	AH-8181	30	36	32	35	35	39	41	43	38	38	40	36	38
4	BAUMH 11-16-1	30	33	32	37	34	39	39	41	36	38	40	39	40
5	BIO9544 (C)	28	35	31	35	36	39	39	38	38	38	40	39	39
6	BLH-111	31	36	33	39	32	38	39	43	35	38	40	39	39
7	BLH-124	27	28	28	27	31	39	13	16	35	27	17	11	15
8	BLH-135	31	34	33	35	33	39	40	37	38	37	40	39	40
9	BRM 12-7	29	35	31	28	35	38	39	29	32	34	29	5	16
10	Bisco-X1 (C)	.	29	.	3	.	.	35	.	3	.	.	.	.
11	CMH 9999	29	37	33	39	35	40	40	44	34	39	40	39	39
12	CMH1818	28	33	31	39	33	39	40	44	35	38	40	37	38
13	DH-291	29	32	30	35	31	41	39	39	38	37	35	9	22
14	DH-296	30	30	30	32	32	39	36	33	35	35	19	17	18
15	DHM117(C)	25	38	31	34	35	39	36	32	35	35	17	4	10
16	IH-0966	28	35	31	36	37	39	41	40	37	38	40	31	35
17	IH-1208	26	33	30	36	35	39	40	40	33	37	39	39	39
18	IMHSB-17R-1	30	39	35	37	33	40	40	42	37	38	39	39	39
19	IMHSB-17R-10	29	33	31	34	33	40	36	41	36	37	39	35	37
20	IMHSB-17R-11	29	34	32	40	35	41	40	39	40	39	40	35	38
21	IMHSB-17R-12	26	34	30	37	33	40	40	39	37	38	40	37	39
22	IMHSB-17R-14	31	38	34	38	34	38	38	39	38	38	39	38	38
23	IMHSB-17R-15	30	32	32	35	33	39	40	41	32	36	40	19	30
24	IMHSB-17R-16	30	36	33	37	34	39	41	41	39	38	41	34	37
25	IMHSB-17R-17	28	34	30	38	33	39	37	42	36	38	40	36	38

Table No. 2: NIVT (Medium)

Initial Plant Stand

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							NWPZ (ZONE-II)		
		BANS	GODH	ZONE	VARA	BAHA	DHOL	NADI	RANC	SABO	ZONE	KARN	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	IMHSB-17R-19	31	32	32	38	33	39	40	36	36	37	40	35	38
27	IMHSB-17R-2	27	35	31	40	34	39	41	43	36	39	40	36	38
28	IMHSB-17R-20	30	32	31	35	32	40	40	39	38	37	40	36	38
29	IMHSB-17R-3	30	37	33	36	34	39	39	39	37	38	39	37	38
30	IMHSB-17R-4	30	33	32	38	32	40	39	41	34	37	40	40	40
31	IMHSB-17R-5	30	33	31	34	32	39	41	38	36	36	41	34	37
32	IMHSB-17R-6	29	34	31	40	35	39	40	39	37	38	40	37	39
33	IMHSB-17R-7	30	32	31	41	31	40	37	38	35	37	39	36	38
34	IMHSB-17R-8	29	31	30	39	33	39	40	39	37	38	40	26	33
35	IMHSB-17R-9	26	35	31	38	34	39	37	41	37	38	40	40	40
36	MEH17-11	31	36	33	37	33	38	40	40	37	38	41	37	39
37	MMH17-21	27	35	31	35	33	38	40	37	37	37	39	40	40
38	MMH17-22	31	34	33	34	33	38	39	20	34	33	28	6	18
39	PM17207M	29	38	34	35	31	40	39	37	34	36	40	40	40
40	REH2016-1	29	29	29	32	33	40	40	38	38	37	41	35	38
41	REH2016-2	32	36	33	33	32	39	39	36	37	36	40	37	38
42	Seed Tech 2324 (Filler)	27	32	30	31	33	40	40	40	37	37	39	32	36
	Location Mean	29	34	32	35	33	39	39	38	35	37	38	32	35
	CV (%)	9.2	8.3	8.7	8.2	8.6	3.3	5.7	5.4	6.4	6.3	7.5	12.6	9.6
	F (Prob)	0.47	0.02	0	0	0.92	0.92	0	0	0	0	0	0	0
	CD (5%)	4.3	4.6	3.3	4.7	4.7	2.1	3.6	3.4	3.7	1.6	4.6	6.6	3.8
	CD (1%)	5.8	6.1	4.3	6.2	6.2	2.8	4.7	4.5	4.9	2.1	6.1	8.7	5.1

Table No. 2: (Contd.)

Initial Plant Stand

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH-8070	33	36	39	40	34	36	37	32	36	36
2	AH-8071R	31	32	40	39	34	37	37	31	35	36
3	AH-8181	32	35	41	39	35	37	37	32	36	37
4	BAUMH 11-16-1	33	35	39	39	36	36	38	31	36	37
5	BIO9544 (C)	32	36	41	40	33	36	35	30	35	36
6	BLH-111	32	34	40	39	33	37	36	32	35	36
7	BLH-124	30	17	27	38	31	32	34	25	29	27
8	BLH-135	32	29	37	40	29	33	35	31	33	35
9	BRM 12-7	32	26	38	38	31	34	32	28	32	31
10	Bisco-X1 (C)	2	2	19	.	.	2	.	.	.	.
11	CMH 9999	32	35	40	39	32	36	38	30	35	37
12	CMH1818	33	34	42	40	37	37	39	30	36	37
13	DH-291	33	33	39	39	34	38	37	29	36	34
14	DH-296	31	27	36	38	29	34	36	29	33	32
15	DHM117(C)	30	22	39	39	34	39	34	31	33	31
16	IH-0966	31	31	38	38	34	36	37	29	34	35
17	IH-1208	33	34	39	38	36	35	38	29	35	36
18	IMHSB-17R-1	32	34	39	40	36	37	40	32	36	37
19	IMHSB-17R-10	32	33	41	39	32	36	38	31	35	35
20	IMHSB-17R-11	31	34	39	39	34	37	37	31	35	36
21	IMHSB-17R-12	32	31	40	38	36	37	38	32	35	36
22	IMHSB-17R-14	32	33	40	39	35	34	38	32	35	36
23	IMHSB-17R-15	31	34	36	37	34	40	34	28	34	34
24	IMHSB-17R-16	32	34	38	38	34	36	34	29	34	36
25	IMHSB-17R-17	32	33	39	38	34	35	40	31	35	36

Table No. 2: (Contd.)

Initial Plant Stand

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	IMHSB-17R-19	32	29	40	38	33	36	41	30	35	36
27	IMHSB-17R-2	33	39	38	40	30	37	37	32	36	37
28	IMHSB-17R-20	31	33	40	39	32	34	38	32	35	36
29	IMHSB-17R-3	31	39	41	39	37	36	37	32	36	36
30	IMHSB-17R-4	32	35	40	41	37	38	38	32	37	37
31	IMHSB-17R-5	33	33	38	40	30	36	36	31	35	35
32	IMHSB-17R-6	32	32	39	38	38	39	37	32	36	36
33	IMHSB-17R-7	33	31	39	38	32	37	39	31	35	36
34	IMHSB-17R-8	32	35	37	39	33	36	42	32	36	36
35	IMHSB-17R-9	32	37	41	39	36	37	40	30	36	36
36	MEH17-11	32	34	37	38	33	38	37	30	35	36
37	MMH17-21	32	23	39	38	34	38	41	31	34	36
38	MMH17-22	33	19	37	38	33	37	34	30	33	31
39	PM17207M	32	34	39	40	37	35	37	31	36	36
40	REH2016-1	31	32	36	37	29	35	39	29	34	35
41	REH2016-2	33	29	40	37	33	34	33	30	34	35
42	Seed Tech 2324 (Filler)	33	31	38	38	34	36	36	30	35	35
	Location Mean	31	31	38	39	34	35	37	30	34	35
	CV (%)	3.4	15.2	10.8	2.3	6.7	6.4	6.8	4.8	8.0	7.7
	F (Prob)	0	0	0	0	0	0	0.01	0	0	0
	CD (5%)	1.7	7.7	6.7	1.5	3.7	3.7	4.1	2.4	1.6	1.1
	CD (1%)	2.3	10.3	8.9	2.0	4.9	4.9	5.5	3.2	2.1	1.4

Table No. 2: NIVT (Medium)

Number of cobs

S. No.	Entry Name	CWZ (ZONE-V)		NEPZ (ZONE-III)							NWPZ (ZONE-II)			
		GODH	ZONE	VARA	BAHA	DHOL	NADI	RANC	SABO	ZONE	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH-8070	33	33	36	33	42	32	36	37	36	54	35	35	41
2	AH-8071R	28	28	34	36	43	33	36	38	37	55	32	22	37
3	AH-8181	33	32	34	35	40	40	40	38	38	54	38	36	42
4	BAUMH 11-16-1	28	29	37	33	41	38	37	36	37	51	35	41	42
5	BIO9544 (C)	31	31	42	35	42	33	36	37	38	53	38	34	43
6	BLH-111	31	31	40	30	43	30	40	36	37	53	38	36	42
7	BLH-124	26	26	24	31	42	9	16	35	27	23	25	15	21
8	BLH-135	28	28	39	33	43	39	33	36	37	49	34	37	41
9	BRM 12-7	31	30	28	34	40	31	26	37	33	37	25	4	21
10	Bisco-X1 (C)	27	27	2	.	.	35	.	2	.	.	25	.	.
11	CMH 9999	32	33	39	34	44	40	40	33	38	49	34	37	40
12	CMH1818	29	29	37	32	39	38	36	35	37	52	35	35	40
13	DH-291	30	29	34	31	43	35	39	37	36	47	35	10	30
14	DH-296	28	27	33	31	41	30	34	34	34	25	29	20	25
15	DHM117(C)	31	30	31	35	41	29	28	35	33	26	26	5	18
16	IH-0966	33	32	24	37	42	37	38	36	35	51	36	30	38
17	IH-1208	32	32	23	34	40	36	37	33	35	49	39	35	41
18	IMHSB-17R-1	33	33	34	31	45	34	41	36	37	49	36	37	41
19	IMHSB-17R-10	30	31	34	33	42	22	35	35	34	51	30	32	38
20	IMHSB-17R-11	26	27	39	33	45	36	39	39	38	53	33	33	41
21	IMHSB-17R-12	30	30	37	32	44	30	34	37	36	52	36	37	42
22	IMHSB-17R-14	32	32	39	33	43	38	40	37	38	51	30	35	39
23	IMHSB-17R-15	28	29	34	33	42	30	38	32	35	51	29	21	34
24	IMHSB-17R-16	31	30	37	33	44	42	35	39	38	54	36	32	41
25	IMHSB-17R-17	31	30	38	33	44	36	42	35	38	54	36	32	41

Table No. 2: NIVT (Medium)

Number of cobs

S. No.	Entry Name	CWZ (ZONE-V)		NEPZ (ZONE-III)							NWPZ (ZONE-II)			
		GODH	ZONE	VARA	BAHA	DHOL	NADI	RANC	SABO	ZONE	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	IMHSB-17R-19	30	30	40	33	43	34	32	35	35	52	27	35	38
27	IMHSB-17R-2	31	30	41	33	44	33	39	36	38	48	36	36	40
28	IMHSB-17R-20	30	30	35	32	45	37	33	37	36	52	40	36	42
29	IMHSB-17R-3	34	34	37	32	42	37	36	36	37	54	36	35	42
30	IMHSB-17R-4	28	28	38	32	44	39	36	32	37	52	38	38	42
31	IMHSB-17R-5	29	29	33	31	44	39	33	36	36	53	30	31	38
32	IMHSB-17R-6	30	30	40	34	45	32	34	38	37	49	29	37	39
33	IMHSB-17R-7	27	28	38	30	46	34	35	35	36	50	33	35	39
34	IMHSB-17R-8	28	27	36	31	43	37	36	36	37	54	35	24	38
35	IMHSB-17R-9	33	33	37	32	41	36	43	36	37	50	37	39	42
36	MEH17-11	31	32	34	33	40	36	34	38	35	51	34	34	40
37	MMH17-21	32	32	38	32	42	34	35	36	37	50	36	38	41
38	MMH17-22	27	27	34	32	42	28	23	34	33	35	32	8	25
39	PM17207M	33	33	34	30	42	39	37	34	36	51	40	37	43
40	REH2016-1	28	28	36	32	41	31	36	39	35	51	30	37	40
41	REH2016-2	29	30	36	31	42	37	32	37	36	51	34	34	40
42	Seed Tech 2324 (Filler)	27	27	31	33	43	31	40	36	36	52	32	33	39
	Location Mean	30	30	34	33	43	34	35	35	36	49	33	31	38
	CV (%)	10.0	10.0	11.1	9.5	5.7	17.6	7.9	5.6	10.1	10.6	12.4	11.9	11.4
	F (Prob)	0.16	1	0	0.96	0.51	0	0	0	1	0	0	0	1
	CD (5%)	4.9	5.2	6.2	5.0	4.0	9.8	4.6	3.2	2.4	8.4	6.8	6.0	4.0
	CD (1%)	6.5	6.9	8.3	6.7	5.3	13.0	6.1	4.3	3.2	11.2	9.0	7.9	5.2

Table No. 2: (Contd.)

Number of cobs

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	AH-8070	32	31	35	39	35	34	37	33	34	36
2	AH-8071R	30	26	36	40	33	34	36	31	33	35
3	AH-8181	32	29	37	38	34	33	35	31	34	36
4	BAUMH 11-16-1	31	24	36	37	34	36	37	30	33	36
5	BIO9544 (C)	31	31	37	43	33	35	36	32	34	37
6	BLH-111	31	30	37	41	32	35	36	31	34	36
7	BLH-124	29	15	24	36	27	26	34	25	27	26
8	BLH-135	31	27	35	44	31	30	35	32	33	35
9	BRM 12-7	30	21	35	39	30	31	33	26	31	30
10	Bisco-X1 (C)	2	10	19	.	.	.	.	.	.	.
11	CMH 9999	31	31	37	39	30	35	38	31	34	36
12	CMH1818	33	29	39	38	34	33	38	32	34	36
13	DH-291	32	33	34	41	32	34	37	29	34	34
14	DH-296	30	22	32	37	29	33	35	28	31	31
15	DHM117(C)	30	17	36	38	34	35	35	30	32	30
16	IH-0966	31	26	35	37	30	32	35	30	32	34
17	IH-1208	31	30	35	37	32	34	35	28	33	35
18	IMHSB-17R-1	32	30	35	40	34	34	39	31	35	36
19	IMHSB-17R-10	32	24	37	37	32	29	37	31	32	34
20	IMHSB-17R-11	30	29	35	39	31	35	36	30	33	36
21	IMHSB-17R-12	32	27	36	37	35	34	38	30	34	36
22	IMHSB-17R-14	32	28	36	40	33	34	37	32	34	36
23	IMHSB-17R-15	29	27	33	37	33	37	33	26	32	33
24	IMHSB-17R-16	31	28	32	38	31	34	34	29	32	35
25	IMHSB-17R-17	32	31	35	39	34	34	37	32	34	36

Table No. 2: (Contd.)

Number of cobs

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
26	IMHSB-17R-19	31	22	37	37	33	27	38	30	32	34
27	IMHSB-17R-2	33	32	34	40	29	35	36	32	34	36
28	IMHSB-17R-20	30	30	36	38	30	34	37	30	33	36
29	IMHSB-17R-3	30	33	36	39	36	33	36	32	34	36
30	IMHSB-17R-4	31	27	38	42	34	35	37	31	34	36
31	IMHSB-17R-5	32	33	34	39	31	33	35	31	34	35
32	IMHSB-17R-6	31	25	35	38	37	32	36	31	33	35
33	IMHSB-17R-7	32	28	36	40	32	36	37	29	34	35
34	IMHSB-17R-8	31	28	34	38	33	32	40	32	33	35
35	IMHSB-17R-9	31	27	38	38	34	33	38	30	33	36
36	MEH17-11	30	25	34	39	31	35	36	29	32	35
37	MMH17-21	32	27	36	37	31	32	38	31	33	36
38	MMH17-22	34	15	35	38	34	32	35	29	32	31
39	PM17207M	31	28	34	40	34	35	36	30	34	36
40	REH2016-1	29	26	32	37	30	32	38	29	32	34
41	REH2016-2	32	22	37	36	32	33	33	30	32	34
42	Seed Tech 2324 (Filler)	31	25	35	37	31	34	35	29	33	35
	Location Mean	30	26	35	39	32	33	36	30	33	34
	CV (%)	5.7	15.4	11.7	4.2	7.7	8.2	5.6	6.7	8.4	9.8
	F (Prob)	0	0	0.01	0	0.03	0.01	0.07	0.02	1	1
	CD (5%)	2.8	6.7	6.6	2.7	4.0	4.4	3.3	3.3	1.6	1.3
	CD (1%)	3.8	8.8	8.8	3.5	5.4	5.9	4.4	4.4	2.2	1.7

Table No.3: AVT-1 (Late)

Yield (Kg/ha)

S. No.	Entry Name	CWZ (ZONE-V)						NEPZ (ZONE-III)															
		BANS		GODH		ZONE		VARA		BAHA		BHUB		DHOL		NADI		RANC		SABO		ZONE	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	ADV7037	11450	10	6777	23	8824	16	9533	21	8167	23	6966	10	6355	28	6120	25	8687	25	12660	4	8740	23
2	ADV7139	9619	22	7144	15	8301	23	8902	27	7878	25	7643	2	6765	26	7098	18	9427	21	11341	14	8727	24
3	BLH-113	10578	14	8047	4	9355	11	9701	19	9305	9	6407	23	8389	11	9100	4	9236	23	11334	15	9032	19
4	BLH-116	11988	7	7851	7	9765	5	10843	3	10068	6	8316	1	8681	7	9029	5	10900	13	11929	8	10168	2
5	Bio 9681 (C)	9733	21	7838	8	8743	17	10020	17	11128	2	6688	16	6072	29	8212	9	9302	22	11459	12	9113	17
6	Bio305	9589	23	7239	13	8560	19	9825	18	8946	13	6414	22	8163	15	7258	16	10320	16	12488	6	9438	10
7	Buland (C)	6754	30	7034	18	6896	30	8422	28	8244	21	6837	13	9355	1	6323	23	8340	26	8862	29	8162	29
8	CMH-2829	10942	12	6062	28	8472	21	10400	12	11011	3	6584	19	8092	16	6894	19	11934	7	11343	13	9774	5
9	DAS-MH-903	10748	13	6379	26	8620	18	8136	30	8560	17	6359	26	6949	24	8355	8	10170	17	12353	7	8712	26
10	DAS-MH-904	11057	11	7500	10	9420	9	10072	16	7111	27	7217	6	8373	12	9607	2	11400	10	11203	18	9223	16
11	DKC 9181	12162	5	7027	19	9779	4	10986	1	6692	30	6686	17	8500	9	8950	6	11581	8	10672	21	9274	14
12	DKC 9188	10226	17	7131	16	8507	20	10584	7	8232	22	7256	5	8284	13	8133	10	12827	4	12574	5	9890	4
13	GK3208	9342	26	7130	17	8165	25	10429	10	8318	20	7094	8	7325	19	6499	21	8027	30	10508	25	8721	25
14	HT 16047	10451	15	7483	12	8969	15	10484	9	9305	8	7624	3	8706	6	6800	20	9180	24	13512	1	9621	7
15	HT 16052	9907	20	5768	29	7983	28	9159	23	9106	10	6188	29	6899	25	8562	7	10593	14	10679	20	8849	20
16	JH273	9550	24	7150	14	8300	24	8257	29	8380	18	6505	20	7130	21	5747	27	8036	29	10373	27	8006	30
17	MM2033	10195	18	8067	3	9074	14	8931	26	9016	12	6923	11	8448	10	5338	28	8235	28	10581	23	8794	22
18	P3522 (C)	12086	6	6816	22	9161	13	10412	11	9763	7	6983	9	7020	22	5845	26	9957	19	11913	9	9354	11
19	PM16201L	11768	8	6893	20	9336	12	10656	5	6711	29	6781	15	8279	14	7489	15	12385	5	10823	19	9318	13
20	PM16202L	13072	2	6316	27	9805	3	9589	20	8335	19	6374	25	8893	4	7813	13	10989	12	11255	17	9320	12

Table No.3: AVT-1 (Late)

Yield (Kg/ha)

S. No.	Entry Name	CWZ (ZONE-V)						NEPZ (ZONE-III)													
		BANS		GODH		ZONE		VARA		BAHA		BHUB		DHOL		NADI		RANC		SABO		ZONE	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
21	PM16203L	9486	25	6428	25	8117	26	10580	8	8842	15	6380	24	7318	20	8077	11	11354	11	12668	3	9559	8
22	PM16204L	12303	3	6606	24	9582	7	10267	14	8898	14	6676	18	6967	23	6262	24	13776	1	10454	26	9515	9
23	PM16205L	12262	4	7856	6	10026	2	9090	25	10359	5	7115	7	9350	2	10221	1	11421	9	11465	11	9736	6
24	PM16206L	13247	1	7486	11	10440	1	10761	4	11705	1	6821	14	8859	5	7706	14	12331	6	12973	2	10561	1
25	PM16207L	10370	16	8828	2	9557	8	10244	15	8653	16	6278	27	6409	27	7959	12	9527	20	11667	10	8798	21
26	Rasi 1107	9162	28	7538	9	8320	22	10866	2	7416	26	6427	21	7580	18	9418	3	13209	3	10323	28	9254	15
27	Rasi 2015 (P2)	8991	29	6818	21	8005	27	10387	13	8139	24	6218	28	8027	17	5106	29	8266	27	10547	24	8574	27
28	Seedtech 2324 (C)	10023	19	5171	30	7782	29	9201	22	7073	28	6099	30	9289	3	6381	22	10467	15	8776	30	8573	28
29	Super3366	11564	9	8002	5	9698	6	10629	6	10748	4	7293	4	5897	30	5085	30	13742	2	11269	16	9976	3
30	VNR 32994	9251	27	9610	1	9377	10	9093	24	9035	11	6854	12	8593	8	7131	17	10080	18	10616	22	9033	18
	Location Mean	10596	.	7200	.	8898	.	9882	.	8838	.	6800	.	7832	.	7417	.	10523	.	11287	.	9194	.
	CV (%)	13.3	.	19.8	.	16.0	.	5.5	.	12.0	.	6.8	.	15.5	.	22.5	.	12.4	.	8.5	.	10.7	.
	F (Prob)	0.00	.	0.58	.	0.00	.	0.00	.	0.00	.	0.00	.	0.05	.	0.05	.	0.00	.	0.00	.	0.00	.
	CD (5%)	2315.1	.	2342.4	.	1733.2	.	899.3	.	1739.2	.	761.2	.	1992.4	.	2737.5	.	2150.4	.	1567.4	.	666.3	.
	CD (1%)	3090.4	.	3126.9	.	2295.5	.	1200.5	.	2321.7	.	1016.1	.	2659.6	.	3654.3	.	2870.5	.	2092.3	.	877.9	.

Table No.3: (Contd.)

Yield (Kg/ha)

S. No.	Entry Name	NWPZ (ZONE-II)										PZ (ZONE-IV)														All India	
		KANP		KARN		LUDH		PANT		ZONE		COIM		KARI		KOLH		MAND		RAHU		VAGA		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	ADV7037	7915	3	12447	2	7314	7	9965	21	9531	3	11534	1	7797	20	8876	2	8905	24	18532	3	8726	4	10731	1	9563	10
2	ADV7139	7255	18	11467	18	6091	21	9460	26	8567	28	10153	16	8147	14	6110	27	10653	5	16408	13	7653	22	9761	18	8978	27
3	BLH-113	7344	14	11831	9	7986	2	10602	12	9359	6	10376	13	7829	18	8245	8	8350	28	16766	10	8103	13	9952	15	9454	13
4	BLH-116	7331	16	11620	14	7418	6	11627	2	9565	2	9490	25	7752	21	7155	18	10374	7	15734	18	8396	8	9654	23	9805	3
5	Bio 9681 (C)	7663	5	9809	30	6092	20	8981	28	8288	29	10068	19	8239	13	7185	16	10349	9	15120	21	7248	28	9620	25	9055	26
6	Bio305	7580	8	11700	11	5596	29	10633	11	8829	20	10348	14	8959	2	8117	9	9016	23	15772	17	7822	17	9955	14	9384	16
7	Buland (C)	7024	28	10227	28	5693	28	9352	27	8065	30	9190	28	6372	30	6282	26	9175	22	11513	30	7036	29	8309	30	8065	30
8	CMH-2829	7121	24	12387	4	6074	23	8833	30	8613	25	9806	22	7724	23	6717	22	10966	3	14280	25	7645	23	9684	22	9345	17
9	DAS-MH-903	8011	1	11060	23	6747	16	11035	7	9155	11	11496	2	7440	26	7430	14	10025	12	16365	14	7767	18	10041	12	9254	21
10	DAS-MH-904	7473	10	12109	7	7179	9	8951	29	8910	17	9299	27	8860	5	7125	19	9227	20	16624	12	9484	2	10051	11	9466	12
11	DKC 9181	7095	25	11931	8	7681	4	11566	3	9353	7	11422	3	8692	7	8367	6	8879	25	16903	8	8132	12	10481	3	9756	4
12	DKC 9188	7463	11	11650	13	6899	13	10218	19	9159	10	10086	17	8848	6	7639	13	11098	2	17613	6	8311	9	10619	2	9807	2
13	GK3208	7221	21	11717	10	5965	25	11514	4	9082	13	10556	11	9204	1	6701	23	9483	16	15218	20	8082	14	9743	20	9069	25
14	HT 16047	8008	2	11252	20	6630	17	10790	9	9161	9	11352	4	8940	3	7030	21	10336	10	17000	7	7664	21	10435	4	9733	5
15	HT 16052	7338	15	11208	21	7111	11	10521	14	8997	16	10075	18	6586	29	5840	28	10272	11	18014	5	7665	20	9691	21	9073	24
16	JH273	7664	4	10984	26	5900	26	9755	23	8671	23	8901	30	7951	15	6577	24	9822	15	13434	28	7343	27	9062	28	8543	29
17	MM2033	7057	26	11014	25	6256	19	10174	20	8587	26	9794	23	7613	24	9012	1	8768	26	18301	4	8820	3	10433	5	9309	20
18	P3522 (C)	7151	22	10761	27	7129	10	9586	25	8777	21	9767	24	7881	16	7745	11	8753	27	16636	11	7764	19	9760	19	9314	19
19	PM16201L	7609	6	11049	24	7088	12	11153	6	9189	8	10577	10	8898	4	7162	17	9840	14	14764	23	8652	5	9946	16	9497	11
20	PM16202L	6998	29	11686	12	7186	8	10501	15	9015	15	10991	6	7742	22	8666	4	10550	6	15049	22	8289	10	10221	9	9609	8

Table No.3: (Contd.)

Yield (Kg/ha)

S. No.	Entry Name	NWPZ (ZONE-II)										PZ (ZONE-IV)														All India	
		KANP		KARN		LUDH		PANT		ZONE		COIM		KARI		KOLH		MAND		RAHU		VAGA		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
21	PM16203L	7456	12	11069	22	6024	24	10247	18	8634	24	10964	8	8557	9	8658	5	8326	29	15355	19	9680	1	10305	6	9451	14
22	PM16204L	7240	19	12801	1	7437	5	11433	5	9720	1	10039	20	7819	19	5612	30	11327	1	14602	24	7564	25	9568	26	9593	9
23	PM16205L	6832	30	11450	19	5890	27	9595	24	8576	27	8921	29	7434	27	7053	20	10353	8	19944	1	7944	15	10261	8	9689	6
24	PM16206L	7123	23	10110	29	8331	1	9907	22	8877	18	10988	7	7441	25	8797	3	9263	19	15901	15	7542	26	10019	13	9999	1
25	PM16207L	7376	13	11560	16	6078	22	10581	13	9050	14	9993	21	7237	28	7652	12	9265	18	15812	16	7616	24	9515	27	9174	23
26	Rasi 1107	7600	7	12159	5	7743	3	10869	8	9528	4	10597	9	8348	11	7769	10	9194	21	13236	29	8455	7	9649	24	9345	18
27	Rasi 2015 (P2)	7563	9	11582	15	6861	14	11656	1	9396	5	11313	5	8493	10	8263	7	9861	13	14002	26	8545	6	10086	10	9208	22
28	Seedtech 2324 (C)	7056	27	12126	6	6409	18	10259	17	8747	22	9484	26	8327	12	6308	25	7827	30	13565	27	8207	11	9035	29	8684	28
29	Super3366	7304	17	11487	17	6761	15	10716	10	9096	12	10175	15	7856	17	5708	29	9342	17	18653	2	6906	30	9808	17	9680	7
30	VNR 32994	7230	20	12437	3	5313	30	10298	16	8864	19	10457	12	8604	8	7243	15	10791	4	16846	9	7884	16	10298	7	9451	15
	Location Mean	7370	.	11490	.	6696	.	10359	.	8979	.	10274	.	8053	.	7368	.	9680	.	15932	.	8032	.	9890	.	9345	.
	CV (%)	8.1	.	8.5	.	14.0	.	8.4	.	9.6	.	11.6	.	18.0	.	15.7	.	14.8	.	12.6	.	7.4	.	13.9	.	12.4	.
	F (Prob)	0.86	.	0.20	.	0.04	.	0.01	.	0.00	.	0.42	.	0.91	.	0.03	.	0.51	.	0.01	.	0.00	.	0.00	.	0.00	.
	CD (5%)	976.6	.	1608.7	.	1538.9	.	1435.5	.	728.6	.	1956.2	.	2378.9	.	1906.4	.	2351.2	.	3287.6	.	978.2	.	941.9	.	458.7	.
	CD (1%)	1303.6	.	2147.4	.	2054.3	.	1916.3	.	961.2	.	2611.4	.	3175.6	.	2544.8	.	3138.6	.	4388.6	.	1305.8	.	1241.0	.	603.3	.

Table No.3: AVT-1 (Late)

Shelling(%)

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7037	81	78	80	77	78	81	82	88	86	80	82
2	ADV7139	78	82	80	81	74	82	84	88	88	76	82
3	BLH-113	82	78	80	79	81	79	83	90	86	79	82
4	BLH-116	82	84	83	78	78	82	81	89	83	76	81
5	Bio 9681 (C)	80	85	82	76	79	80	81	90	86	81	82
6	Bio305	74	81	78	73	78	81	80	89	86	79	81
7	Buland (C)	73	80	76	76	77	80	79	88	82	79	80
8	CMH-2829	82	81	82	75	79	80	79	89	86	79	81
9	DAS-MH-903	82	80	81	83	78	80	78	88	87	77	82
10	DAS-MH-904	82	80	80	83	75	80	83	88	89	78	82
11	DKC 9181	81	86	84	83	75	80	83	88	88	77	82
12	DKC 9188	82	79	80	79	77	79	84	90	86	77	82
13	GK3208	82	77	79	78	76	81	83	90	84	77	82
14	HT 16047	80	82	80	77	78	79	84	87	87	81	82
15	HT 16052	82	84	83	77	76	80	79	90	86	82	82
16	JH273	80	87	83	75	77	81	82	90	82	79	80
17	MM2033	79	82	81	74	77	82	80	89	83	80	81
18	P3522 (C)	82	82	82	81	76	80	82	89	89	77	82
19	PM16201L	80	81	80	75	73	80	81	89	86	77	80
20	PM16202L	82	73	78	79	78	80	83	88	86	76	81

Table No.3: AVT-1 (Late)

Shelling(%)

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
21	PM16203L	82	74	79	77	79	80	76	88	85	80	81
22	PM16204L	82	85	84	81	79	81	83	90	87	78	83
23	PM16205L	81	88	84	81	81	80	82	87	85	79	82
24	PM16206L	82	84	83	81	82	81	83	88	85	80	83
25	PM16207L	82	87	83	77	79	81	80	89	84	80	81
26	Rasi 1107	75	84	80	78	77	81	80	88	88	80	82
27	Rasi 2015 (P2)	78	83	81	74	75	80	82	90	85	78	80
28	Seedtech 2324 (C)	82	75	79	78	75	80	82	86	84	80	81
29	Super3366	82	83	82	75	80	80	77	89	87	80	81
30	VNR 32994	82	81	81	73	77	80	85	91	86	77	81
	Location Mean	80	82	81	78	77	80	81	89	86	79	81
	CV (%)	0.0	3.9	2.8	0.0	2.0	0.8	2.6	1.7	0.8	4.7	2.3
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.97	0.00
	CD (5%)	0.0	5.3	2.7	0.0	2.6	1.0	3.4	2.5	1.1	6.1	1.1
	CD (1%)	0.0	7.1	3.5	0.0	3.4	1.3	4.6	3.3	1.4	8.1	1.5

Table No.3: (Contd.)

Shelling(%)

S. No.	Entry Name	NWPZ (ZONE-II)					PZ (ZONE-IV)								
		KANP	KARN	LUDH	PANT	ZONE	COIM	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7037	74	81	85	83	81	81	77	86	81	71	86	81	80	81
2	ADV7139	75	79	84	89	82	82	79	71	82	74	88	78	79	81
3	BLH-113	75	81	85	83	81	79	80	87	80	79	88	79	82	82
4	BLH-116	75	81	82	85	81	79	79	83	80	73	82	80	79	81
5	Bio 9681 (C)	75	79	82	83	80	78	76	85	78	75	85	78	79	81
6	Bio305	75	80	82	83	80	78	79	80	78	74	83	79	79	80
7	Buland (C)	75	80	78	79	78	78	78	77	81	74	78	78	78	79
8	CMH-2829	75	82	80	81	79	77	77	78	80	75	84	81	79	80
9	DAS-MH-903	76	81	85	83	81	82	81	91	81	79	88	78	83	82
10	DAS-MH-904	76	78	87	82	81	81	80	84	81	82	90	82	83	82
11	DKC 9181	76	80	86	87	82	81	81	86	83	77	88	79	82	82
12	DKC 9188	75	81	83	80	80	82	78	75	80	71	87	80	79	80
13	GK3208	75	81	85	82	80	79	79	82	79	78	86	79	80	81
14	HT 16047	76	80	83	82	80	79	80	76	79	72	85	79	79	80
15	HT 16052	76	81	83	83	81	79	77	70	80	76	86	78	78	80
16	JH273	75	79	80	80	78	77	76	77	80	75	81	78	78	79
17	MM2033	73	81	82	82	79	78	79	83	80	76	82	81	80	80
18	P3522 (C)	74	80	83	83	81	81	80	89	81	77	86	80	82	82
19	PM16201L	78	80	83	85	81	80	78	83	80	78	86	82	81	81
20	PM16202L	74	81	86	83	81	81	79	85	80	75	86	79	81	81

Table No.3: (Contd.)

Shelling(%)

S. No.	Entry Name	NWPZ (ZONE-II)					PZ (ZONE-IV)								
		KANP	KARN	LUDH	PANT	ZONE	COIM	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
21	PM16203L	75	81	82	80	79	80	79	83	80	82	84	82	81	80
22	PM16204L	76	81	84	85	82	81	81	71	82	80	87	78	80	82
23	PM16205L	74	82	84	86	82	81	79	82	82	81	87	79	82	82
24	PM16206L	73	82	84	81	80	83	80	87	80	78	87	78	82	82
25	PM16207L	76	82	81	77	79	78	77	82	79	76	83	79	79	80
26	Rasi 1107	76	80	84	81	80	79	79	72	80	73	86	81	79	80
27	Rasi 2015 (P2)	75	80	84	83	81	80	77	70	81	72	84	80	78	80
28	Seedtech 2324 (C)	75	81	82	81	80	80	79	82	81	74	85	78	80	80
29	Super3366	75	81	84	82	80	77	77	78	80	74	86	78	79	80
30	VNR 32994	74	81	83	83	80	79	80	87	81	70	84	80	80	81
	Location Mean	75	81	83	83	80	80	79	81	80	76	85	79	80	81
	CV (%)	1.9	2.5	2.0	2.4	2.2	1.4	1.4	0.0	1.3	4.3	1.8	1.2	2.0	2.22
	F (Prob)	0.23	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	CD (5%)	2.3	3.3	2.7	3.3	1.4	1.9	1.8	0.0	1.7	5.4	2.5	1.5	1.0	0.64
	CD (1%)	3.1	4.4	3.7	4.4	1.9	2.5	2.4	0.0	2.3	7.2	3.3	2.1	1.3	0.84

Table No.3: AVT-1 (Late)

Moisture(%)

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7037	16.2	15.1	15.7	28.2	28.0	19.2	26.8	18.3	34.2	26.2	25.8
2	ADV7139	17.0	16.2	16.6	29.4	28.1	19.4	25.6	17.3	34.1	20.4	25.0
3	BLH-113	17.1	16.2	16.5	25.4	27.2	18.1	20.4	19.5	35.7	24.3	24.4
4	BLH-116	16.5	16.3	16.2	27.0	26.2	19.4	22.8	18.7	34.9	24.6	24.9
5	Bio 9681 (C)	16.6	16.2	16.3	26.3	25.6	19.5	25.6	18.6	33.9	25.2	25.1
6	Bio305	16.8	15.5	16.0	26.1	26.5	19.1	26.5	19.1	34.8	25.2	25.4
7	Buland (C)	16.9	16.3	16.7	23.3	26.9	19.4	20.4	18.9	34.8	24.7	24.1
8	CMH-2829	16.9	16.1	16.6	26.4	26.6	19.3	24.3	18.5	34.2	29.1	25.6
9	DAS-MH-903	16.8	17.7	17.1	22.9	26.7	18.5	19.7	18.9	33.5	23.8	23.2
10	DAS-MH-904	17.1	16.5	16.8	22.9	25.9	18.8	20.2	18.5	34.2	22.3	23.1
11	DKC 9181	16.6	16.8	16.8	26.8	26.5	19.3	19.7	17.9	34.5	24.5	23.9
12	DKC 9188	17.1	16.9	17.1	26.9	27.2	19.3	24.7	18.6	35.0	24.5	25.2
13	GK3208	16.3	14.7	15.5	26.0	26.4	19.5	24.6	18.6	34.4	22.4	24.3
14	HT 16047	16.9	16.8	16.9	26.3	27.4	19.7	26.9	19.4	35.1	24.2	25.6
15	HT 16052	16.3	15.9	16.0	27.4	27.0	18.9	21.5	18.5	33.3	26.7	24.8
16	JH273	16.4	17.4	16.8	26.6	26.1	18.8	20.3	19.2	34.5	23.7	24.2
17	MM2033	16.7	16.7	16.7	25.4	25.4	18.8	25.8	18.5	34.0	26.7	25.0
18	P3522 (C)	16.8	15.7	16.3	23.9	25.4	19.3	20.5	19.5	33.3	24.9	23.8
19	PM16201L	16.7	16.5	16.7	22.9	25.3	19.6	20.1	18.3	34.9	25.4	23.8
20	PM16202L	16.9	17.8	17.5	26.2	24.5	19.3	24.5	18.9	34.6	28.3	24.9

Table No.3: AVT-1 (Late)

Moisture(%)

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
21	PM16203L	16.0	15.7	16.0	24.3	25.5	19.5	25.1	19.1	34.3	22.8	24.4
22	PM16204L	16.8	16.0	16.3	21.6	26.1	19.6	19.3	18.9	34.6	26.3	23.9
23	PM16205L	17.4	15.8	16.3	21.4	24.3	19.2	18.6	19.2	33.3	22.0	22.7
24	PM16206L	16.8	16.1	16.6	21.4	24.4	19.7	18.8	19.0	34.6	20.3	22.6
25	PM16207L	16.4	16.0	16.1	22.6	24.3	19.7	19.5	18.7	33.0	24.1	23.3
26	Rasi 1107	16.0	15.3	15.7	25.9	26.2	19.8	24.4	18.5	34.7	27.9	25.4
27	Rasi 2015 (P2)	16.1	17.0	16.6	26.4	25.8	19.8	24.4	19.2	34.3	27.2	25.3
28	Seedtech 2324 (C)	16.7	16.1	16.5	24.5	27.2	19.0	21.6	18.6	33.8	23.9	23.8
29	Super3366	16.5	16.1	16.3	24.2	27.0	19.6	22.8	18.5	32.4	21.8	23.8
30	VNR 32994	16.5	15.5	16.0	27.6	28.3	19.9	24.7	18.6	33.7	26.7	25.8
	Location Mean	16.7	16.2	16.4	25.2	26.3	19.3	22.7	18.7	34.2	24.7	24.4
	CV (%)	2.1	5.0	3.8	3.5	1.8	1.6	5.4	3.4	1.8	12.5	5.6
	F (Prob)	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.19	0.00
	CD (5%)	0.6	1.3	0.7	1.5	0.8	0.5	2.0	1.1	1.0	5.1	0.8
	CD (1%)	0.8	1.8	1.0	2.0	1.0	0.7	2.7	1.4	1.3	6.8	1.1

Table No.3: (Contd.)

Moisture(%)

S. No.	Entry Name	NWPZ (ZONE-II)						PZ (ZONE-IV)								
		KANP	KARN	LUDH	PANT	ZONE		DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Rank	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7037	13.1	28.0	15.6	29.2	21.7	24.0	16.1	18.8	15.6	16.5	18.0	18.6	16.4	17.6	21.0
2	ADV7139	14.4	29.6	14.8	26.5	21.2	14.0	23.3	19.5	15.2	16.4	18.0	18.8	16.0	18.5	20.9
3	BLH-113	15.0	28.2	14.5	29.6	21.6	22.0	21.7	20.1	15.3	16.7	18.0	19.4	16.4	18.5	20.9
4	BLH-116	14.5	28.8	15.0	28.5	21.7	26.0	19.6	19.0	14.0	16.4	18.0	18.8	15.9	17.6	20.7
5	Bio 9681 (C)	13.7	29.0	15.1	27.5	21.3	18.0	22.7	18.6	15.3	16.1	18.0	19.1	15.8	17.9	20.8
6	Bio305	14.5	27.2	15.5	28.6	21.4	19.0	18.7	19.2	14.2	18.2	18.0	18.3	15.6	17.8	20.8
7	Buland (C)	15.2	28.7	14.8	25.8	20.8	4.0	19.1	14.7	16.8	15.4	18.0	18.9	16.3	17.3	20.1
8	CMH-2829	13.8	28.7	15.3	29.4	22.0	30.0	19.2	20.5	15.2	16.7	18.0	18.1	16.2	18.0	21.2
9	DAS-MH-903	14.0	28.5	13.8	27.1	20.9	8.0	20.0	19.1	15.3	16.0	18.0	18.5	15.8	17.8	20.2
10	DAS-MH-904	15.3	27.3	14.6	27.0	20.9	10.0	20.4	18.1	15.0	15.5	18.0	18.0	16.1	17.7	20.0
11	DKC 9181	13.2	27.0	14.7	28.4	21.0	13.0	18.7	18.8	15.8	16.4	18.0	18.5	15.5	17.9	20.4
12	DKC 9188	14.3	29.6	14.7	28.9	21.9	28.0	22.9	19.5	15.2	17.2	18.0	18.3	16.6	18.1	21.1
13	GK3208	14.9	29.7	13.5	27.7	21.6	23.0	19.0	18.6	15.2	16.8	18.0	18.7	16.5	17.9	20.5
14	HT 16047	14.2	28.9	13.7	27.3	20.7	2.0	21.7	19.1	15.3	16.8	18.0	18.4	16.6	18.3	21.0
15	HT 16052	14.5	30.0	14.6	26.4	21.3	17.0	19.2	19.4	14.9	16.8	18.0	19.3	16.6	18.1	20.7
16	JH273	14.0	29.0	15.2	28.0	21.4	20.0	22.5	19.4	15.3	16.3	18.0	19.3	16.4	18.4	20.7
17	MM2033	15.0	28.6	14.6	28.3	21.6	21.0	21.4	19.2	15.0	16.5	18.0	19.4	16.2	18.2	21.0
18	P3522 (C)	13.4	28.1	16.0	28.5	21.7	25.0	19.8	18.7	14.0	15.5	18.0	18.1	16.2	17.5	20.3
19	PM16201L	14.2	27.9	14.4	27.8	20.9	9.0	22.2	18.0	16.2	15.7	18.0	18.0	16.0	17.9	20.3
20	PM16202L	13.4	26.5	14.4	28.4	20.8	5.0	21.2	19.2	14.0	15.9	18.0	18.7	17.0	17.9	20.8

Table No.3: (Contd.)

Moisture(%)

S. No.	Entry Name	NWPZ (ZONE-II)						PZ (ZONE-IV)								
		KANP	KARN	LUDH	PANT	ZONE		DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Rank	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
21	PM16203L	13.9	27.5	15.2	26.8	20.9	11.0	19.3	20.1	14.3	16.6	18.0	18.0	15.9	17.6	20.4
22	PM16204L	14.0	29.6	16.4	28.1	22.0	29.0	15.4	18.2	13.8	15.3	18.0	18.1	15.9	16.9	20.1
23	PM16205L	13.8	28.3	14.6	28.3	21.2	16.0	19.3	17.7	14.5	15.1	18.0	18.6	15.3	17.5	19.8
24	PM16206L	14.3	27.8	14.5	26.5	20.7	3.0	21.7	15.5	15.6	15.1	18.0	18.6	15.9	17.5	19.7
25	PM16207L	13.7	28.9	14.3	25.5	20.6	1.0	22.7	18.8	14.7	15.2	18.0	18.4	15.8	17.7	19.9
26	Rasi 1107	13.3	28.2	13.9	28.4	20.9	7.0	22.4	19.8	15.4	16.5	18.0	18.0	15.7	18.2	20.9
27	Rasi 2015 (P2)	14.7	27.6	15.5	25.9	20.9	6.0	18.8	19.0	14.7	16.1	18.0	18.9	17.1	17.9	20.8
28	Seedtech 2324 (C)	13.5	26.4	15.2	29.1	21.2	15.0	18.6	19.5	15.9	17.0	18.0	18.5	16.2	17.9	20.4
29	Super3366	13.7	29.1	14.7	25.7	21.0	12.0	21.5	20.1	14.9	16.1	18.0	18.6	16.2	18.2	20.5
30	VNR 32994	14.7	29.8	14.3	28.0	21.7	27.0	20.2	19.0	15.1	17.8	18.0	18.9	16.2	18.2	21.2
	Location Mean	14.1	28.4	14.8	27.7	21.3	.	20.3	18.8	15.1	16.3	18.0	18.6	16.1	17.9	20.6
	CV (%)	5.3	4.7	5.3	4.4	5.0	.	11.2	3.5	4.9	2.7	0.0	5.2	3.2	5.56	5.4
	F (Prob)	0.09	0.30	0.04	0.01	0.00	.	0.03	0.00	0.02	0.00	.	0.98	0.11	0	0.0
	CD (5%)	1.2	2.2	1.3	2.0	0.9	.	3.7	1.1	1.2	0.7	0.0	1.6	0.9	0.56	0.4
	CD (1%)	1.6	2.9	1.7	2.7	1.2	.	5.0	1.5	1.6	1.0	0.0	2.1	1.2	0.74	0.5

Table No.3: AVT-1 (Late)

Final Plant Stand (000/ha)

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)						
		BANS	GODH	ZONE	VARA	BAHA	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7037	73	56	64	74	68	84	53	75	74	72
2	ADV7139	63	55	60	77	69	83	72	81	71	75
3	BLH-113	66	57	62	76	66	85	65	73	68	72
4	BLH-116	66	58	61	79	71	85	65	78	69	74
5	Bio 9681 (C)	61	53	57	78	73	83	59	79	71	74
6	Bio305	63	51	58	79	63	83	60	83	70	73
7	Buland (C)	60	55	58	77	66	84	53	77	71	71
8	CMH-2829	68	52	60	76	62	85	52	79	75	72
9	DAS-MH-903	64	56	60	79	65	84	64	71	77	73
10	DAS-MH-904	64	56	61	82	71	83	73	76	72	76
11	DKC 9181	68	55	62	82	65	83	68	78	71	74
12	DKC 9188	64	54	59	75	72	84	67	72	73	74
13	GK3208	64	56	59	74	69	86	55	59	73	69
14	HT 16047	68	55	62	81	68	84	61	80	71	74
15	HT 16052	65	53	60	76	71	84	71	76	70	74
16	JH273	63	54	59	77	64	84	57	77	72	72
17	MM2033	65	53	60	80	68	84	47	70	69	70
18	P3522 (C)	68	52	59	80	70	83	57	77	73	73
19	PM16201L	72	54	63	81	66	83	64	77	74	74
20	PM16202L	65	54	60	76	67	85	60	74	70	72

Table No.3: AVT-1 (Late)

Final Plant Stand (000/ha)

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)						
		BANS	GODH	ZONE	VARA	BAHA	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
21	PM16203L	64	54	59	78	66	83	65	79	71	73
22	PM16204L	66	51	60	83	67	84	59	77	67	73
23	PM16205L	72	57	64	74	69	82	61	82	67	73
24	PM16206L	70	56	62	81	69	82	59	79	74	75
25	PM16207L	66	56	61	74	65	82	61	71	70	70
26	Rasi 1107	64	56	60	79	68	83	72	83	72	76
27	Rasi 2015 (P2)	69	52	61	76	67	85	56	72	72	72
28	Seedtech 2324 (C)	66	50	58	81	64	84	53	79	71	72
29	Super3366	66	55	60	78	67	84	52	76	68	72
30	VNR 32994	63	53	58	73	64	85	62	75	67	71
	Location Mean	66	54	60	78	67	84	61	76	71	73
	CV (%)	6.1	6.1	6.1	5.2	4.7	2.0	15.6	6.7	6.2	7.2
	F (Prob)	0.10	0.63	0.00	0.33	0.03	0.54	0.22	0.01	0.78	0.00
	CD (5%)	6.6	5.4	4.3	6.6	5.2	2.8	15.5	8.4	7.2	3.6
	CD (1%)	8.8	7.3	5.7	8.8	6.9	3.7	20.7	11.2	9.6	4.7

Table No.3: (Contd.)

Final Plant Stand (000/ha)

S. No.	Entry Name	NWPZ (ZONE-II)			PZ (ZONE-IV)								
		KARN	PANT	ZONE	COIM	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7037	80	54	67	64	77	78	67	74	82	61	72	70
2	ADV7139	80	58	69	64	78	78	61	72	74	62	69	70
3	BLH-113	80	55	67	63	78	77	64	76	76	61	71	70
4	BLH-116	80	59	70	64	78	78	61	81	77	61	72	71
5	Bio 9681 (C)	79	52	66	64	77	78	64	76	74	60	71	70
6	Bio305	80	55	68	64	77	78	63	78	70	59	70	69
7	Buland (C)	80	53	67	63	71	77	66	69	76	59	68	68
8	CMH-2829	79	54	67	64	78	78	65	70	74	60	70	69
9	DAS-MH-903	80	53	66	63	77	77	61	67	70	60	68	69
10	DAS-MH-904	80	54	67	63	79	77	67	70	73	64	70	71
11	DKC 9181	80	58	68	64	77	78	67	73	70	62	70	70
12	DKC 9188	80	56	68	64	78	79	66	72	77	61	71	70
13	GK3208	80	59	69	64	76	77	61	70	72	64	69	68
14	HT 16047	80	55	68	64	78	77	64	72	75	62	70	70
15	HT 16052	80	58	69	63	76	78	63	69	77	62	70	70
16	JH273	80	50	65	64	78	78	70	75	77	61	72	70
17	MM2033	80	55	67	64	77	79	66	78	70	62	71	69
18	P3522 (C)	80	57	68	65	78	77	69	69	77	60	71	70
19	PM16201L	80	59	70	64	79	78	69	78	72	61	71	71
20	PM16202L	80	49	64	64	77	78	62	69	69	63	69	68

Table No.3: (Contd.)

Final Plant Stand (000/ha)

S. No.	Entry Name	NWPZ (ZONE-II)			PZ (ZONE-IV)								
		KARN	PANT	ZONE	COIM	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
21	PM16203L	80	54	68	65	77	78	66	74	76	63	71	70
22	PM16204L	80	60	70	62	78	77	73	70	77	61	72	70
23	PM16205L	80	51	65	63	77	78	71	77	80	60	72	71
24	PM16206L	80	58	70	63	78	78	68	72	77	63	71	71
25	PM16207L	80	56	68	64	76	78	65	72	71	61	70	69
26	Rasi 1107	80	59	70	64	77	79	68	74	72	61	71	71
27	Rasi 2015 (P2)	80	54	68	63	77	80	66	79	76	61	72	70
28	Seedtech 2324 (C)	80	53	66	65	78	77	66	71	71	61	70	69
29	Super3366	80	56	68	64	78	76	65	74	81	58	71	70
30	VNR 32994	80	53	67	65	78	78	59	78	65	59	69	68
	Location Mean	80	55	68	64	77	78	65	73	74	61	70	70
	CV (%)	0.5	6.5	3.8	1.5	2.3	1.4	6.1	5.8	5.5	2.6	4.1	5.6
	F (Prob)	0.87	0.08	0.00	0.19	0.06	0.32	0.13	0.03	0.01	0.02	0.00	0.00
	CD (5%)	0.7	5.9	2.9	1.6	3.0	1.8	6.5	7.0	6.7	2.6	1.8	1.6
	CD (1%)	0.9	7.9	3.9	2.1	4.0	2.5	8.7	9.3	8.9	3.5	2.3	2.1

Table No.3: AVT-1 (Late)

Days to 50 % Anthesis

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7037	94	85	90	115	132	75	120	89	84	110	103
2	ADV7139	93	83	88	113	130	74	120	89	83	110	103
3	BLH-113	91	82	87	111	127	73	118	88	79	106	101
4	BLH-116	91	80	86	111	126	73	121	89	81	105	101
5	Bio 9681 (C)	93	81	87	110	128	75	117	88	78	106	100
6	Bio305	91	83	87	111	130	75	119	88	81	108	102
7	Buland (C)	95	84	89	110	131	74	120	88	82	108	102
8	CMH-2829	93	81	86	110	127	75	121	88	80	108	101
9	DAS-MH-903	90	81	85	108	125	72	121	89	79	104	100
10	DAS-MH-904	88	80	84	107	125	71	120	89	78	103	99
11	DKC 9181	94	82	87	114	130	74	119	89	82	107	102
12	DKC 9188	92	80	86	111	129	73	121	88	81	107	102
13	GK3208	95	80	87	110	125	71	121	88	78	104	99
14	HT 16047	90	79	85	110	127	73	118	88	80	104	100
15	HT 16052	92	86	89	111	129	73	118	89	81	107	101
16	JH273	92	82	87	112	131	74	120	89	82	109	102
17	MM2033	93	83	89	114	132	73	121	90	84	109	103
18	P3522 (C)	92	79	86	110	130	75	119	89	80	108	101
19	PM16201L	92	85	88	111	127	74	119	89	82	106	101
20	PM16202L	90	80	85	108	124	72	120	89	77	104	99

Table No.3: AVT-1 (Late)

Days to 50 % Anthesis

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
21	PM16203L	91	82	86	109	126	71	117	89	80	105	100
22	PM16204L	92	82	87	107	128	73	119	87	78	106	100
23	PM16205L	90	83	87	109	126	71	120	88	78	108	100
24	PM16206L	90	79	84	108	123	73	120	88	78	106	99
25	PM16207L	92	81	86	111	127	72	117	89	80	108	101
26	Rasi 1107	92	82	87	111	128	72	123	89	79	108	101
27	Rasi 2015 (P2)	92	82	87	112	128	73	122	89	82	108	102
28	Seedtech 2324 (C)	92	81	86	110	127	72	122	89	80	106	101
29	Super3366	92	81	86	109	125	72	121	88	79	106	100
30	VNR 32994	94	81	88	114	131	75	123	90	81	112	104
	Location Mean	92	82	87	111	128	73	120	89	80	107	101
	CV (%)	1.6	2.3	2.0	1.0	1.2	1.9	2.1	1.0	1.2	1.1	1.4
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.01	0.50	0.30	0.00	0.00	0.00
	CD (5%)	2.4	3.1	2.0	1.8	2.4	2.2	4.1	1.4	1.6	1.9	0.9
	CD (1%)	3.2	4.2	2.7	2.4	3.2	3.0	5.4	1.9	2.1	2.5	1.2

Table No.3: (Contd.)

Days to 50 % Anthesis

S. No.	Entry Name	NWPZ (ZONE-II)					PZ (ZONE-IV)								All India
		KANP	KARN	LUDH	PANT	ZONE	COIM	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7037	93	68	88	116	91	61	81	74	74	62	86	56	71	88
2	ADV7139	92	64	90	117	91	60	80	75	69	60	85	54	69	87
3	BLH-113	95	62	84	110	88	56	81	71	68	58	82	52	67	85
4	BLH-116	95	60	84	110	88	57	78	70	68	59	83	51	67	85
5	Bio 9681 (C)	96	63	87	111	89	59	78	71	68	60	84	54	68	85
6	Bio305	97	65	85	114	90	60	80	73	70	58	84	55	69	87
7	Buland (C)	90	69	89	113	90	59	81	71	71	61	85	54	69	87
8	CMH-2829	95	66	86	110	89	59	79	74	68	57	83	53	68	86
9	DAS-MH-903	93	68	85	110	89	57	78	73	66	57	80	54	66	84
10	DAS-MH-904	93	61	84	108	86	55	77	71	65	56	81	49	65	83
11	DKC 9181	93	68	86	113	90	59	80	74	70	61	85	53	69	87
12	DKC 9188	94	65	86	110	89	57	81	72	70	60	83	53	68	86
13	GK3208	92	66	85	110	89	58	80	75	69	59	83	53	68	85
14	HT 16047	89	67	87	111	89	57	78	73	67	59	84	51	67	85
15	HT 16052	93	65	85	112	89	59	80	75	69	61	84	53	69	86
16	JH273	95	68	88	113	91	59	79	75	70	60	84	54	69	87
17	MM2033	94	68	88	114	91	60	82	74	73	60	83	54	70	88
18	P3522 (C)	96	65	88	111	90	59	82	70	71	60	81	53	68	86
19	PM16201L	96	64	88	111	90	57	78	73	70	59	83	53	68	86
20	PM16202L	94	63	85	112	88	58	77	71	67	57	80	54	66	84

Table No.3: (Contd.)

Days to 50 % Anthesis

S. No.	Entry Name	NWPZ (ZONE-II)					PZ (ZONE-IV)								
		KANP	KARN	LUDH	PANT	ZONE	COIM	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
21	PM16203L	96	68	86	113	90	59	79	73	68	57	82	51	67	85
22	PM16204L	96	64	86	111	89	59	78	73	67	58	84	52	67	85
23	PM16205L	96	60	86	110	88	57	80	71	67	59	83	54	67	85
24	PM16206L	95	59	86	109	87	59	78	73	67	61	81	54	68	84
25	PM16207L	94	67	88	112	90	57	80	71	71	60	85	54	68	86
26	Rasi 1107	93	63	87	112	89	58	79	71	69	59	84	53	68	86
27	Rasi 2015 (P2)	97	64	87	113	90	57	79	71	69	59	86	53	68	86
28	Seedtech 2324 (C)	96	66	86	113	90	58	80	74	66	57	83	54	67	86
29	Super3366	98	67	85	112	90	56	78	72	67	58	79	52	66	85
30	VNR 32994	94	65	89	114	91	60	80	76	70	63	85	56	70	88
	Location Mean	94	65	86	112	89	58	79	73	69	59	83	53	68	86
	CV (%)	4.3	3.9	2.5	1.1	3.0	1.6	1.8	2.7	2.2	2.0	1.5	2.2	2.0	2.05
	F (Prob)	0.97	0.00	0.20	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0
	CD (5%)	6.6	4.1	3.5	2.0	2.2	1.5	2.3	3.2	2.4	1.9	2.1	2.0	0.9	0.66
	CD (1%)	8.9	5.5	4.7	2.6	2.9	2.1	3.1	4.3	3.3	2.6	2.7	2.6	1.2	0.86

Table No.3: AVT-1 (Late)

Days to 50 % Silking

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Rank
1	ADV7037	97	88	93	117	133	77	123	92	87	116	106	29
2	ADV7139	96	86	91	115	131	77	124	92	86	115	106	27
3	BLH-113	95	84	90	114	129	76	122	90	83	111	104	13
4	BLH-116	95	83	89	113	129	76	125	91	84	110	104	17
5	Bio 9681 (C)	96	83	90	112	130	77	120	91	82	110	103	11
6	Bio305	96	86	91	114	132	78	122	90	86	113	105	25
7	Buland (C)	98	86	92	113	133	76	123	90	86	113	105	22
8	CMH-2829	96	83	89	112	129	77	125	90	85	112	104	20
9	DAS-MH-903	94	83	88	109	127	75	124	91	84	107	102	4
10	DAS-MH-904	92	83	87	108	127	74	124	91	83	107	102	1
11	DKC 9181	97	84	90	115	132	78	123	91	85	111	105	24
12	DKC 9188	96	83	90	112	131	76	124	91	85	111	104	21
13	GK3208	98	83	90	111	128	74	125	92	82	108	103	7
14	HT 16047	93	82	88	111	128	76	121	89	83	109	103	6
15	HT 16052	96	89	92	112	131	76	123	91	85	110	104	19
16	JH273	95	85	91	114	133	77	123	91	85	114	105	26
17	MM2033	98	86	92	116	134	76	124	92	87	115	106	28
18	P3522 (C)	96	82	89	111	131	77	122	92	84	111	104	16
19	PM16201L	96	87	91	112	129	77	122	91	84	110	104	15
20	PM16202L	94	82	88	109	127	74	123	91	82	108	102	3

Table No.3: AVT-1 (Late)

Days to 50 % Silking

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Rank
21	PM16203L	95	84	89	111	128	74	121	91	84	109	103	9
22	PM16204L	95	84	90	108	130	76	123	90	82	111	103	8
23	PM16205L	94	86	90	110	128	74	122	91	82	111	103	5
24	PM16206L	93	81	87	109	125	75	123	90	82	110	102	2
25	PM16207L	96	84	89	112	129	75	120	91	84	111	103	11
26	Rasi 1107	96	85	91	112	130	75	126	90	84	111	104	18
27	Rasi 2015 (P2)	95	85	90	113	130	76	125	91	85	113	105	23
28	Seedtech 2324 (C)	96	84	89	112	129	74	125	91	84	110	104	14
29	Super3366	96	83	89	111	127	76	124	90	82	111	103	10
30	VNR 32994	97	84	91	115	133	78	126	93	85	117	107	30
	Location Mean	96	84	90	112	130	76	123	91	84	111	104	.
	CV (%)	1.6	2.3	1.9	0.9	1.1	1.9	2.0	1.2	0.8	1.2	1.4	.
	F (Prob)	0.01	0.01	0.00	0.00	0.00	0.03	0.54	0.30	0.00	0.00	0.00	.
	CD (5%)	2.4	3.2	2.1	1.7	2.3	2.4	4.0	1.8	1.1	2.2	0.9	.
	CD (1%)	3.3	4.3	2.8	2.3	3.1	3.2	5.4	2.5	1.5	3.0	1.2	.

Table No.3: (Contd.)

Days to 50 % Silking

S. No.	Entry Name	NWPZ (ZONE-II)					PZ (ZONE-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7037	97	72	90	120	94	64	74	84	76	75	64	88	61	73.42	90
2	ADV7139	96	67	91	121	94	63	74	83	77	74	62	87	57	72.18	89
3	BLH-113	99	65	85	114	91	60	74	84	73	70	60	84	55	69.94	87
4	BLH-116	99	63	85	113	90	61	74	81	72	71	61	84	55	70.03	87
5	Bio 9681 (C)	99	66	89	114	92	63	76	81	73	71	62	85	57	70.78	87
6	Bio305	100	68	86	117	93	64	74	83	75	73	60	86	58	71.62	89
7	Buland (C)	93	71	91	116	93	63	74	84	75	74	63	88	57	71.8	89
8	CMH-2829	100	69	88	113	93	63	75	82	74	71	59	85	57	70.61	88
9	DAS-MH-903	97	71	86	113	92	60	76	81	76	69	59	82	57	70	87
10	DAS-MH-904	98	64	85	112	90	59	72	80	73	70	58	82	53	68.23	85
11	DKC 9181	98	71	87	117	93	63	75	83	75	71	63	86	56	71.5	89
12	DKC 9188	97	69	88	114	92	61	75	84	75	72	62	84	56	70.96	88
13	GK3208	97	70	87	114	92	61	74	83	77	71	61	85	57	71.05	87
14	HT 16047	93	69	90	116	92	61	74	81	76	71	62	85	54	70.16	87
15	HT 16052	96	68	86	115	91	62	75	83	76	72	63	86	56	71.72	88
16	JH273	99	71	90	118	94	64	75	82	77	72	63	86	58	71.93	89
17	MM2033	98	71	90	117	94	63	74	85	76	75	62	86	58	72.69	90
18	P3522 (C)	100	69	90	115	93	62	76	85	72	73	62	83	57	71.37	88
19	PM16201L	99	67	90	114	93	61	72	81	75	72	61	84	56	70.42	88
20	PM16202L	98	66	86	115	91	61	74	80	73	71	59	82	57	69.59	86

Table No.3: (Contd.)

Days to 50 % Silking

S. No.	Entry Name	NWPZ (ZONE-II)					PZ (ZONE-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
21	PM16203L	100	72	87	116	93	62	72	82	75	70	59	85	55	70	87
22	PM16204L	100	67	87	114	92	63	72	81	75	71	60	86	55	70.23	87
23	PM16205L	99	63	88	114	91	61	72	83	73	70	61	84	57	69.99	87
24	PM16206L	99	63	87	112	90	63	74	81	74	69	63	83	57	70.65	86
25	PM16207L	98	71	89	116	93	61	75	83	73	72	62	85	57	70.96	88
26	Rasi 1107	97	65	89	115	92	62	72	81	73	71	61	86	57	70.47	88
27	Rasi 2015 (P2)	100	67	89	116	93	60	74	82	73	71	61	87	57	70.74	88
28	Seedtech 2324 (C)	100	70	87	116	93	62	74	83	75	70	59	85	58	70.97	88
29	Super3366	101	71	86	115	93	60	74	81	73	70	60	82	55	69.44	87
30	VNR 32994	97	70	91	117	94	64	74	83	75	72	65	86	60	72.26	90
	Location Mean	98	68	88	115	92	62	74	82	75	71	61	85	57	70.86	88
	CV (%)	4.0	3.5	2.8	1.2	2.9	1.4	1.9	1.7	3.0	1.9	1.9	1.5	2.1	2.01	2.02
	F (Prob)	0.97	0.00	0.21	0.00	0.00	0.00	0.07	0.01	0.35	0.00	0.00	0.00	0.00	0	0
	CD (5%)	6.4	3.9	4.1	2.3	2.3	1.4	2.3	2.4	3.6	2.3	2.0	2.1	2.0	0.84	0.65
	CD (1%)	8.6	5.2	5.5	3.0	3.0	1.9	3.1	3.1	4.8	3.0	2.6	2.8	2.7	1.11	0.85

Table No.3: AVT-1 (Late)

Days to 75 % Dry Husk

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7037	129	113	121	149	164	118	168	128	123	157	144
2	ADV7139	129	112	121	147	163	118	165	128	118	155	142
3	BLH-113	127	111	119	149	160	117	165	128	120	151	141
4	BLH-116	127	111	119	141	160	116	165	128	120	151	140
5	Bio 9681 (C)	127	111	119	145	162	119	163	129	118	150	141
6	Bio305	127	113	120	145	161	118	165	128	121	149	141
7	Buland (C)	128	113	121	145	161	117	163	128	122	151	141
8	CMH-2829	128	113	120	147	162	117	167	128	120	153	142
9	DAS-MH-903	126	110	118	145	161	117	166	128	120	150	141
10	DAS-MH-904	124	110	117	145	159	115	164	128	119	151	140
11	DKC 9181	129	112	120	149	162	118	167	128	121	155	143
12	DKC 9188	128	114	121	148	163	118	165	128	120	156	142
13	GK3208	130	109	120	146	161	116	166	128	118	154	141
14	HT 16047	125	109	117	147	159	117	165	128	119	151	141
15	HT 16052	127	114	121	147	162	117	164	128	121	153	142
16	JH273	126	113	120	146	163	117	165	127	121	152	141
17	MM2033	129	113	121	148	164	117	167	129	120	150	142
18	P3522 (C)	129	111	120	137	163	117	164	128	120	151	140
19	PM16201L	127	114	121	149	161	119	164	127	121	154	142
20	PM16202L	126	108	117	144	161	117	166	127	118	153	141

Table No.3: AVT-1 (Late)

Days to 75 % Dry Husk

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
21	PM16203L	126	113	120	145	162	116	166	129	120	153	142
22	PM16204L	127	111	119	143	162	116	162	129	119	149	140
23	PM16205L	125	113	119	144	160	115	165	128	118	154	141
24	PM16206L	125	113	119	142	158	116	165	127	118	148	139
25	PM16207L	127	111	119	144	159	115	161	129	120	149	139
26	Rasi 1107	127	108	118	148	163	117	168	128	120	152	142
27	Rasi 2015 (P2)	126	112	119	151	163	118	165	128	120	151	142
28	Seedtech 2324 (C)	128	111	119	145	161	115	165	128	120	151	141
29	Super3366	128	109	118	146	162	115	165	128	119	152	141
30	VNR 32994	129	111	120	150	165	116	168	127	120	156	143
	Location Mean	127	112	119	146	162	117	165	128	120	152	141
	CV (%)	1.0	2.0	1.5	2.3	1.1	1.4	1.0	0.5	0.6	1.0	1.3
	F (Prob)	0.00	0.05	0.00	0.02	0.01	0.31	0.00	0.25	0.00	0.00	0.00
	CD (5%)	2.2	3.7	2.2	5.4	2.9	2.7	2.8	1.1	1.2	2.5	1.1
	CD (1%)	2.9	4.9	2.9	7.3	3.8	3.6	3.7	1.5	1.6	3.3	1.5

Table No.3: (Contd.)

Days to 75 % Dry Husk

S. No.	Entry Name	NWPZ (ZONE-II)					PZ (ZONE-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7037	144	133	124	153	138	100	111	122	118	117	111	127	101	113	129
2	ADV7139	138	131	123	150	136	99	111	121	119	116	109	126	98	112	128
3	BLH-113	141	130	120	151	135	97	111	122	116	112	106	122	95	110	126
4	BLH-116	144	128	119	148	135	96	111	119	116	114	108	123	95	110	126
5	Bio 9681 (C)	142	129	123	147	135	98	112	119	116	111	108	124	98	111	126
6	Bio305	139	128	123	150	135	100	108	121	118	115	107	123	97	111	127
7	Buland (C)	144	132	122	149	136	98	111	122	117	114	109	122	98	111	127
8	CMH-2829	145	131	124	152	138	98	111	120	117	116	106	123	97	111	127
9	DAS-MH-903	138	133	123	150	136	96	110	119	118	115	107	122	98	111	126
10	DAS-MH-904	138	128	121	149	134	94	108	118	116	114	104	123	93	109	125
11	DKC 9181	144	131	122	151	137	98	111	121	116	116	110	124	96	112	128
12	DKC 9188	145	129	124	152	137	96	112	122	118	114	109	125	96	111	128
13	GK3208	143	131	122	149	136	97	110	121	119	115	108	126	96	111	127
14	HT 16047	145	130	125	149	137	96	109	119	118	113	109	124	95	110	126
15	HT 16052	142	129	121	150	136	98	110	121	118	114	109	125	95	111	127
16	JH273	143	132	123	149	137	99	111	120	118	115	109	126	97	112	127
17	MM2033	143	132	123	150	137	100	111	123	119	112	109	124	97	112	128
18	P3522 (C)	144	131	124	150	137	97	112	123	116	110	108	124	97	111	126
19	PM16201L	142	129	125	151	136	97	109	119	118	114	108	126	95	111	127
20	PM16202L	142	129	124	153	137	96	110	118	117	112	106	123	97	110	126

Table No.3: (Contd.)

Days to 75 % Dry Husk

S. No.	Entry Name	NWPZ (ZONE-II)					PZ (ZONE-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
21	PM16203L	145	131	124	150	138	97	108	120	118	116	106	125	95	111	127
22	PM16204L	142	129	124	151	137	98	109	119	118	115	106	123	95	110	126
23	PM16205L	144	128	124	148	136	96	109	121	116	110	106	125	97	110	126
24	PM16206L	143	128	119	147	134	99	112	119	117	112	109	121	96	111	126
25	PM16207L	146	132	121	147	136	97	111	121	116	109	108	125	98	110	126
26	Rasi 1107	140	128	124	152	136	97	110	119	115	116	107	125	97	111	127
27	Rasi 2015 (P2)	140	129	123	152	136	97	110	120	116	115	107	126	97	111	127
28	Seedtech 2324 (C)	146	129	122	152	137	99	109	121	118	115	108	124	97	112	127
29	Super3366	145	133	121	149	137	97	110	119	116	113	107	124	95	110	126
30	VNR 32994	142	130	125	151	137	100	109	121	120	117	110	129	99	113	128
	Location Mean	143	130	123	150	136	98	110	120	117	114	108	124	96	111	127
	CV (%)	1.8	1.2	1.9	1.0	1.5	1.1	1.9	1.2	1.5	1.9	1.3	1.7	1.2	1.5	1.4
	F (Prob)	0.02	0.00	0.16	0.00	0.00	0.00	0.60	0.01	0.26	0.01	0.00	0.07	0.00	0.0	0.0
	CD (5%)	4.2	2.6	3.9	2.4	1.8	1.7	3.4	2.4	2.9	3.5	2.3	3.5	1.9	1.0	0.7
	CD (1%)	5.6	3.5	5.2	3.3	2.3	2.3	4.6	3.1	3.9	4.7	3.0	4.7	2.5	1.3	0.9

Table No.3: AVT-1 (Late)

Plant Height(cm)

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7037	240	191	217	148	168	186	179	267	213	203	195
2	ADV7139	251	206	226	169	189	197	165	266	225	206	201
3	BLH-113	272	196	236	197	224	210	222	311	272	231	239
4	BLH-116	266	200	231	190	202	204	201	283	265	216	224
5	Bio 9681 (C)	265	195	229	185	220	210	187	314	249	236	229
6	Bio305	271	198	234	186	197	194	188	273	248	219	214
7	Buland (C)	272	200	235	181	204	202	194	294	263	223	223
8	CMH-2829	247	195	222	175	207	197	195	315	245	239	225
9	DAS-MH-903	262	189	226	176	198	200	177	269	251	233	215
10	DAS-MH-904	245	197	220	168	193	195	169	301	248	216	213
11	DKC 9181	281	199	239	201	210	211	188	278	275	249	231
12	DKC 9188	285	191	237	189	209	214	204	279	265	238	229
13	GK3208	238	196	217	176	192	200	175	297	262	209	216
14	HT 16047	277	199	237	185	199	202	203	298	274	246	229
15	HT 16052	271	205	238	187	218	200	201	284	248	242	225
16	JH273	233	197	216	166	198	191	182	275	238	201	208
17	MM2033	292	194	244	193	213	204	211	265	239	247	224
18	P3522 (C)	267	200	234	204	246	211	202	330	285	253	248
19	PM16201L	277	187	230	205	200	209	198	306	271	248	234
20	PM16202L	282	200	241	165	216	207	210	296	264	236	228

Table No.3: AVT-1 (Late)

Plant Height(cm)

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
21	PM16203L	275	200	234	182	190	199	183	268	241	237	215
22	PM16204L	275	200	236	201	222	204	196	308	281	241	236
23	PM16205L	270	198	237	183	215	208	215	338	262	241	238
24	PM16206L	281	198	240	199	230	203	213	303	268	241	236
25	PM16207L	283	199	241	211	222	224	202	346	271	268	249
26	Rasi 1107	254	196	223	181	194	195	174	271	245	216	212
27	Rasi 2015 (P2)	243	195	221	186	195	203	183	263	228	234	213
28	Seedtech 2324 (C)	251	197	224	168	182	195	180	223	219	201	196
29	Super3366	251	186	223	174	203	202	192	325	254	229	225
30	VNR 32994	263	197	231	166	192	195	166	283	227	217	205
	Location Mean	265	197	231	183	205	202	192	291	253	231	222
	CV (%)	6.4	4.0	5.4	6.3	6.1	4.6	8.3	6.7	3.0	4.7	5.9
	F (Prob)	0.01	0.69	0.00	0.00	0.00	0.04	0.01	0.00	0.00	0.00	0.00
	CD (5%)	27.7	12.8	14.3	18.8	20.6	15.3	26.2	32.1	12.6	17.8	8.4
	CD (1%)	37.0	17.1	18.9	25.1	27.5	20.4	34.9	42.9	16.8	23.7	11.0

Table No.3: (Contd.)

Plant Height(cm)

S. No.	Entry Name	NWPZ (ZONE-II)					PZ (ZONE-IV)									All India
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7037	206	182	174	224	197	160	169	208	167	238	234	277	171	204	201
2	ADV7139	199	167	161	207	183	164	170	214	157	242	213	262	172	199	199
3	BLH-113	189	198	199	250	209	204	201	210	176	252	298	284	194	229	229
4	BLH-116	193	204	209	239	212	193	203	219	200	252	266	290	210	227	224
5	Bio 9681 (C)	204	192	196	232	208	197	252	218	177	262	262	276	198	230	225
6	Bio305	199	186	189	212	196	175	169	223	179	242	290	271	195	218	214
7	Buland (C)	190	200	176	242	202	218	172	210	188	247	263	283	221	226	221
8	CMH-2829	187	196	172	226	196	182	182	223	190	256	269	271	185	220	217
9	DAS-MH-903	187	172	178	225	189	194	189	225	157	248	257	267	190	214	211
10	DAS-MH-904	193	175	165	220	187	183	178	211	159	246	235	273	172	207	206
11	DKC 9181	204	199	209	232	209	218	197	222	192	267	282	319	203	237	230
12	DKC 9188	191	216	188	231	208	186	196	226	205	251	255	293	186	224	224
13	GK3208	195	186	184	240	199	195	170	217	172	258	276	262	188	216	213
14	HT 16047	196	200	193	247	208	208	194	220	188	257	253	286	197	226	225
15	HT 16052	196	191	188	238	202	188	205	215	186	253	278	306	200	229	223
16	JH273	189	187	170	221	193	185	184	209	172	242	261	261	175	213	208
17	MM2033	186	198	190	244	205	173	193	218	184	260	278	319	189	228	224
18	P3522 (C)	186	203	207	267	217	185	215	225	210	256	290	315	196	237	237
19	PM16201L	192	203	175	237	203	198	198	223	178	250	294	287	193	227	225
20	PM16202L	191	202	193	250	207	191	195	222	201	259	256	297	200	228	225

Table No.3: (Contd.)

Plant Height(cm)

S. No.	Entry Name	NWPZ (ZONE-II)					PZ (ZONE-IV)									
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
21	PM16203L	195	184	190	221	198	168	203	216	176	255	272	277	187	219	215
22	PM16204L	195	199	202	243	211	203	218	232	191	266	287	289	203	236	231
23	PM16205L	194	210	170	245	206	183	198	233	201	248	301	297	212	235	230
24	PM16206L	202	205	209	245	215	193	196	223	201	262	297	272	214	233	231
25	PM16207L	191	221	207	262	222	213	220	225	213	265	300	317	218	246	242
26	Rasi 1107	195	180	184	221	195	183	171	240	183	243	257	268	170	215	211
27	Rasi 2015 (P2)	195	199	189	219	199	192	163	220	171	251	244	246	164	208	209
28	Seedtech 2324 (C)	190	177	169	210	184	161	176	202	153	243	264	264	189	206	201
29	Super3366	200	189	192	223	201	184	158	212	185	256	284	266	184	217	217
30	VNR 32994	210	178	176	232	199	173	143	213	162	251	237	265	172	201	204
	Location Mean	195	193	187	233	202	188	189	219	182	253	268	282	192	222	219
	CV (%)	4.2	5.8	6.7	6.2	5.8	6.1	14.1	6.6	7.2	3.3	11.2	5.8	6.5	8.15	6.83
	F (Prob)	0.10	0.00	0.00	0.00	0.00	0.00	0.07	0.62	0.00	0.00	0.17	0.00	0.00	0	0
	CD (5%)	13.5	18.4	20.5	23.6	9.9	18.9	43.8	23.8	21.6	13.6	49.5	26.8	20.5	10.75	5.49
	CD (1%)	18.0	24.6	27.4	31.5	13.0	25.2	58.4	31.8	28.8	18.1	66.1	35.7	27.4	14.16	7.22

Table No.3: AVT-1 (Late)

Ear Height (cm)

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7037	135	98	118	86	88	91	104	104	131	103	102
2	ADV7139	123	94	112	93	95	99	84	106	127	106	101
3	BLH-113	151	99	122	104	111	101	105	103	158	119	115
4	BLH-116	129	99	112	94	75	98	97	103	143	95	102
5	Bio 9681 (C)	138	105	122	100	101	102	98	104	136	116	108
6	Bio305	133	103	118	93	94	87	105	105	129	103	102
7	Buland (C)	136	88	111	101	92	97	98	103	147	115	108
8	CMH-2829	133	90	112	90	79	98	91	101	129	118	100
9	DAS-MH-903	109	94	100	79	89	93	91	101	137	111	100
10	DAS-MH-904	106	96	102	85	82	87	85	102	129	101	96
11	DKC 9181	142	92	116	105	82	101	90	103	141	125	106
12	DKC 9188	147	97	121	87	86	99	97	105	139	118	105
13	GK3208	117	98	109	95	94	96	81	103	131	105	100
14	HT 16047	141	102	120	93	84	96	88	103	147	122	105
15	HT 16052	145	99	122	88	109	95	100	105	131	123	107
16	JH273	136	101	118	89	92	90	97	101	127	93	100
17	MM2033	145	96	122	109	94	101	108	103	132	126	111
18	P3522 (C)	136	94	117	118	119	105	94	104	159	132	120
19	PM16201L	131	91	109	103	88	100	89	103	130	126	106
20	PM16202L	122	98	110	97	90	96	98	104	133	112	104

Table No.3: AVT-1 (Late)

Ear Height (cm)

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
21	PM16203L	130	99	112	86	88	91	93	107	127	111	100
22	PM16204L	125	93	111	91	84	92	95	104	125	104	99
23	PM16205L	141	94	118	97	92	102	104	103	138	111	108
24	PM16206L	133	88	111	101	109	98	103	100	138	126	110
25	PM16207L	148	98	123	112	105	110	106	100	140	138	116
26	Rasi 1107	122	97	108	96	96	91	96	103	120	111	103
27	Rasi 2015 (P2)	128	95	111	91	91	97	94	101	122	121	102
28	Seedtech 2324 (C)	132	105	117	104	94	93	98	98	125	114	103
29	Super3366	122	101	113	82	89	96	93	105	122	105	99
30	VNR 32994	126	96	114	98	72	96	90	106	123	117	99
	Location Mean	132	97	114	96	92	97	96	103	134	114	104
	CV (%)	12.4	6.5	10.2	7.2	13.6	6.9	12.5	4.1	3.8	8.1	8.3
	F (Prob)	0.35	0.20	0.00	0.00	0.03	0.11	0.75	0.93	0.00	0.00	0.00
	CD (5%)	26.9	10.3	13.4	11.3	20.6	11.0	19.6	6.9	8.3	15.2	5.5
	CD (1%)	35.9	13.7	17.7	15.1	27.6	14.7	26.2	9.2	11.0	20.3	7.2

Table No.3: (Contd.)

Ear Height (cm)

S. No.	Entry Name	NWPZ (ZONE-II)					PZ (ZONE-IV)								
		KANP	KARN	LUDH	PANT	ZONE	COIM	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7037	100	99	91	85	95	93	102	96	123	116	173	95	113	106
2	ADV7139	98	89	76	73	84	88	98	78	123	120	162	96	109	101
3	BLH-113	99	107	93	99	100	107	105	90	130	148	156	98	120	115
4	BLH-116	98	116	108	82	102	96	103	101	128	114	167	111	117	108
5	Bio 9681 (C)	102	98	94	82	95	102	111	102	137	137	160	112	123	112
6	Bio305	99	81	97	72	87	92	101	92	129	122	154	103	113	104
7	Buland (C)	101	106	86	88	95	127	114	100	129	115	182	117	126	112
8	CMH-2829	101	99	73	75	86	98	100	90	135	108	143	96	110	102
9	DAS-MH-903	98	77	83	72	81	100	93	78	124	111	148	98	107	98
10	DAS-MH-904	100	79	67	68	78	91	88	74	122	107	149	92	103	95
11	DKC 9181	102	104	97	94	97	118	94	80	147	136	177	105	123	112
12	DKC 9188	102	99	82	71	89	96	103	105	127	115	160	96	114	106
13	GK3208	102	96	86	77	89	103	103	78	136	128	151	102	115	104
14	HT 16047	98	101	91	80	92	118	101	96	136	131	172	108	123	110
15	HT 16052	100	89	90	83	90	97	101	91	132	137	179	107	120	110
16	JH273	99	87	85	81	89	103	100	86	121	107	155	99	111	103
17	MM2033	104	99	98	98	100	90	109	88	143	114	191	100	120	113
18	P3522 (C)	97	114	105	106	107	102	105	109	139	143	183	104	126	119
19	PM16201L	101	102	77	70	89	92	101	88	125	128	141	101	111	104
20	PM16202L	96	97	83	84	90	98	105	97	132	120	150	106	115	105

Table No.3: (Contd.)

Ear Height (cm)

S. No.	Entry Name	NWPZ (ZONE-II)					PZ (ZONE-IV)								
		KANP	KARN	LUDH	PANT	ZONE	COIM	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
21	PM16203L	102	96	85	68	88	85	94	94	130	115	141	97	108	102
22	PM16204L	99	96	101	80	93	102	98	89	143	108	138	96	111	103
23	PM16205L	101	109	82	90	96	98	103	104	145	124	160	109	121	111
24	PM16206L	102	111	101	85	101	98	107	108	141	134	149	115	122	112
25	PM16207L	97	112	113	99	106	114	106	111	139	148	175	114	130	119
26	Rasi 1107	103	98	90	81	93	97	93	91	116	105	152	92	107	103
27	Rasi 2015 (P2)	99	104	84	74	91	101	104	87	127	97	148	91	108	103
28	Seedtech 2324 (C)	103	87	81	79	86	95	100	79	127	125	160	103	114	105
29	Super3366	105	93	86	77	90	94	90	84	135	103	144	92	107	101
30	VNR 32994	107	81	79	83	86	96	96	87	132	106	159	96	109	101
	Location Mean	100	98	89	82	92	100	101	92	132	121	159	102	115	107
	CV (%)	3.6	10.6	12.2	7.0	8.9	8.4	7.2	11.7	4.9	13.1	6.4	6.5	8.6	9
	F (Prob)	0.25	0.00	0.00	0.00	0.00	0.00	0.05	0.02	0.00	0.02	0.00	0.00	0.00	0
	CD (5%)	5.9	17.0	17.9	9.4	6.7	13.7	11.9	17.6	10.7	26.0	16.9	10.9	6.4	4
	CD (1%)	7.8	22.8	23.8	12.5	8.9	18.3	15.9	23.5	14.2	34.7	22.5	14.5	8.4	5

Table No.3: AVT-1 (Late)

Initial Plant Stand (000/ha)

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)						
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7037	76	77	75	77	70	79	66	55	76	71
2	ADV7139	66	77	72	80	72	83	66	69	72	73
3	BLH-113	69	80	74	79	66	79	64	66	70	71
4	BLH-116	68	80	74	83	74	80	68	73	71	74
5	Bio 9681 (C)	63	74	69	81	76	77	65	66	73	73
6	Bio305	66	71	69	82	65	80	67	61	72	71
7	Buland (C)	62	77	69	80	68	80	66	54	73	70
8	CMH-2829	70	73	71	79	63	74	67	55	77	69
9	DAS-MH-903	66	77	71	82	67	79	68	66	79	73
10	DAS-MH-904	67	78	73	85	70	78	67	85	73	76
11	DKC 9181	70	77	74	85	62	78	66	69	72	72
12	DKC 9188	65	75	70	78	73	80	68	68	76	73
13	GK3208	64	77	70	77	71	78	67	58	74	71
14	HT 16047	69	77	73	84	70	83	66	59	73	72
15	HT 16052	66	73	70	79	71	74	67	75	71	73
16	JH273	65	75	71	80	63	77	67	53	74	69
17	MM2033	67	73	71	83	69	79	66	45	71	69
18	P3522 (C)	68	73	69	83	69	79	66	50	75	70
19	PM16201L	72	75	73	84	66	81	67	66	76	73
20	PM16202L	68	75	71	79	68	77	66	64	72	71

Table No.3: AVT-1 (Late)

Initial Plant Stand (000/ha)

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)						
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
21	PM16203L	67	74	71	81	69	76	65	67	72	72
22	PM16204L	69	71	72	86	67	80	67	57	68	71
23	PM16205L	75	80	77	77	68	78	67	76	69	72
24	PM16206L	72	78	74	85	72	76	66	67	76	74
25	PM16207L	67	77	72	77	68	76	64	64	72	70
26	Rasi 1107	67	77	72	82	70	79	67	83	74	76
27	Rasi 2015 (P2)	71	72	71	79	66	79	64	51	74	69
28	Seedtech 2324 (C)	68	70	69	84	63	75	64	55	73	70
29	Super3366	67	77	71	82	70	80	65	41	69	69
30	VNR 32994	64	74	70	76	66	81	66	60	68	69
	Location Mean	68	76	72	81	68	78	66	63	73	72
	CV (%)	5.7	6.1	6.0	5.2	5.6	3.7	2.4	18.7	6.3	8.1
	F (Prob)	0.06	0.63	0.00	0.33	0.02	0.14	0.16	0.03	0.72	0.00
	CD (5%)	6.4	7.6	5.0	6.9	6.3	4.7	2.7	19.2	7.6	4.0
	CD (1%)	8.5	10.1	6.6	9.2	8.4	6.3	3.6	25.7	10.1	5.3

Table No.3: (Contd.)

Initial Plant Stand (000/ha)

S. No.	Entry Name	NWPZ (ZONE-II)					PZ (ZONE-IV)								
		KANP	KARN	LUDH	PANT	ZONE	COIM	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7037	71	78	71	58	70	64	77	64	69	64	83	63	69	71
2	ADV7139	70	79	80	64	73	65	77	64	62	64	74	64	67	71
3	BLH-113	71	80	81	58	72	64	78	64	65	61	77	62	67	70
4	BLH-116	72	79	76	64	74	63	79	64	64	70	78	62	69	72
5	Bio 9681 (C)	71	79	73	56	71	64	77	64	65	65	75	61	68	70
6	Bio305	72	78	66	60	69	64	76	65	66	64	72	61	67	69
7	Buland (C)	72	79	72	58	70	65	73	64	67	58	77	62	66	68
8	CMH-2829	73	79	75	58	71	64	78	64	67	60	74	62	67	69
9	DAS-MH-903	72	79	74	58	71	63	77	63	64	60	72	61	66	70
10	DAS-MH-904	74	79	78	58	72	63	78	64	68	61	73	64	68	72
11	DKC 9181	73	79	81	61	72	65	76	65	69	63	73	62	67	71
12	DKC 9188	71	80	65	61	70	65	78	64	68	62	79	64	69	70
13	GK3208	73	78	67	64	71	65	76	64	63	60	75	65	67	69
14	HT 16047	71	79	74	60	71	64	78	64	66	63	76	63	67	70
15	HT 16052	74	77	74	61	71	63	76	64	64	61	79	63	67	70
16	JH273	73	79	70	55	70	64	78	64	72	65	76	62	69	69
17	MM2033	72	79	78	60	71	66	76	65	69	65	73	63	68	69
18	P3522 (C)	69	80	73	62	72	67	77	63	70	60	78	61	68	70
19	PM16201L	73	82	80	65	74	67	78	65	72	67	74	62	69	72
20	PM16202L	73	80	66	55	68	65	78	65	64	60	71	65	67	69

Table No.3: (Contd.)

Initial Plant Stand (000/ha)

S. No.	Entry Name	NWPZ (ZONE-II)					PZ (ZONE-IV)								
		KANP	KARN	LUDH	PANT	ZONE	COIM	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
21	PM16203L	70	79	66	61	69	66	77	65	69	62	76	63	68	70
22	PM16204L	71	79	78	63	73	62	77	64	74	60	77	63	69	70
23	PM16205L	71	78	71	56	70	64	75	64	72	63	81	61	69	71
24	PM16206L	73	79	81	61	74	65	78	65	67	63	77	64	68	72
25	PM16207L	72	80	72	62	72	65	76	65	65	62	74	62	67	70
26	Rasi 1107	70	80	82	63	74	65	77	65	71	63	72	63	68	72
27	Rasi 2015 (P2)	71	80	75	58	71	66	76	66	67	66	77	62	68	70
28	Seedtech 2324 (C)	74	79	75	56	70	66	77	64	67	62	73	62	67	69
29	Super3366	73	78	79	59	72	65	78	64	65	64	82	58	68	70
30	VNR 32994	72	79	64	59	68	66	77	64	61	67	68	60	66	68
	Location Mean	72	79	74	60	71	65	77	64	67	63	75	62	68	70
	CV (%)	3.5	1.8	9.8	6.6	6.2	2.8	1.9	1.5	6.2	6.3	4.5	2.7	4.1	6.3
	F (Prob)	0.90	0.51	0.21	0.20	0.00	0.43	0.03	0.62	0.16	0.30	0.00	0.05	0.00	0.00
	CD (5%)	4.1	2.3	11.9	6.5	3.5	3.0	2.3	1.6	6.8	6.6	5.6	2.7	1.7	1.7
	CD (1%)	5.5	3.1	15.9	8.7	4.7	4.0	3.1	2.1	9.1	8.7	7.4	3.6	2.2	2.2

Table No.3: AVT-1 (Late)

Number of Cobs

S. No.	Entry Name		NEPZ (ZONE-III)											PZ (ZONE-IV)									
		ZONE	VARN	BAHA	DHOL	NADI	RANC	SABO	ZONE	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	ADV7037	52	74	68	77	39	66	73	67	83	69	53	69	62	66	75	80	68	72	80	61	71	68
2	ADV7139	51	74	69	77	50	69	69	68	82	75	59	71	63	68	75	79	62	72	72	62	69	68
3	BLH-113	52	72	66	78	48	66	68	66	82	76	50	69	61	57	74	79	63	68	77	60	68	67
4	BLH-116	53	81	71	87	53	74	69	72	86	73	58	73	62	55	75	80	64	79	76	62	69	69
5	Bio 9681 (C)	47	79	73	83	47	73	70	71	80	68	51	68	62	48	73	78	64	74	72	58	66	67
6	Bio305	47	80	63	81	44	74	69	68	89	59	55	67	63	66	74	82	64	72	72	58	68	67
7	Buland (C)	51	75	65	80	39	68	70	66	82	68	54	68	64	39	66	77	66	65	73	58	64	64
8	CMH-2829	46	74	62	82	39	70	74	67	84	71	53	69	61	48	74	79	67	68	69	60	66	66
9	DAS-MH-903	48	79	65	79	47	64	76	68	86	71	57	71	61	69	73	76	64	64	71	60	67	67
10	DAS-MH-904	63	81	71	82	61	70	70	72	87	74	52	71	60	53	75	80	65	69	72	63	67	69
11	DKC 9181	47	85	65	81	50	77	71	72	85	77	57	72	63	57	71	78	66	71	85	62	69	69
12	DKC 9188	50	78	72	83	49	76	74	71	86	67	56	70	62	52	73	78	68	70	77	62	68	68
13	GK3208	50	77	69	81	41	66	72	68	82	62	60	69	65	62	74	78	60	68	73	62	68	67
14	HT 16047	51	80	68	84	42	66	71	69	82	70	54	68	65	46	75	78	67	71	78	61	68	67
15	HT 16052	44	76	71	83	54	72	69	70	83	74	54	69	63	71	72	80	66	68	80	62	69	68
16	JH273	49	76	64	84	38	66	72	67	84	69	53	70	62	54	73	77	68	71	74	60	68	67
17	MM2033	51	82	68	79	32	60	68	65	83	75	54	69	64	66	73	77	67	72	72	61	69	67
18	P3522 (C)	49	83	70	78	36	66	73	68	86	69	57	71	65	59	74	77	68	68	75	61	68	68
19	PM16201L	51	80	67	88	47	72	74	71	91	76	59	74	64	62	76	79	69	76	71	60	70	70
20	PM16202L	50	73	67	84	46	69	69	68	86	64	51	67	60	62	74	80	64	68	71	61	67	66

Table No.3: AVT-1 (Late)

Number of Cobs

S. No.	Entry Name		NEPZ (ZONE-III)											PZ (ZONE-IV)									
		ZONE	VARN	BAHA	DHOL	NADI	RANC	SABO	ZONE	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
21	PM16203L	47	78	66	79	48	77	69	69	85	63	56	67	64	59	75	80	66	69	76	63	69	68
22	PM16204L	47	83	67	87	41	75	66	70	82	74	58	71	60	59	75	79	69	68	75	60	68	68
23	PM16205L	52	80	69	83	54	77	67	72	81	67	51	68	63	60	71	79	72	71	79	60	70	69
24	PM16206L	50	82	69	82	48	78	73	72	84	79	55	73	63	59	75	80	68	72	74	61	69	70
25	PM16207L	51	75	65	79	46	69	69	67	81	71	58	72	64	50	74	80	64	69	71	61	67	67
26	Rasi 1107	50	78	68	84	60	73	71	73	85	79	57	74	64	52	74	80	69	70	69	61	68	69
27	Rasi 2015 (P2)	46	77	67	80	37	62	71	66	83	75	52	70	63	64	74	83	69	75	74	61	70	68
28	Seedtech 2324 (C)	46	81	64	78	40	67	70	67	84	69	52	67	64	59	75	78	65	67	70	61	67	66
29	Super3366	50	79	67	77	30	74	66	66	82	73	54	70	65	55	75	78	63	73	77	57	68	67
30	VNR 32994	48	78	64	82	43	67	65	67	82	61	57	67	62	52	74	78	60	76	66	58	66	65
	Location Mean	50	78	67	81	45	70	70	69	84	71	55	70	63	58	74	79	66	71	74	61	68	68
	CV (%)	9.0	5.2	4.6	5.2	18.7	7.6	6.2	7.5	5.9	10.8	8.1	8.3	3.1	14.6	3.5	2.8	5.7	6.6	6.9	2.8	6.4	7.3
	F (Prob)	0.12	0.04	0.02	0.21	0.03	0.02	0.63	0.00	0.94	0.23	0.59	0.00	0.12	0.07	0.05	0.36	0.10	0.23	0.07	0.02	0.00	0.00
	CD (5%)	7.3	6.7	5.0	7.0	13.9	8.8	7.1	3.6	8.2	12.5	7.3	5.4	3.2	13.9	4.2	3.6	6.1	7.6	8.4	2.7	2.6	1.9
	CD (1%)	9.8	8.9	6.7	9.4	18.5	11.7	9.5	4.7	10.9	16.7	9.8	7.1	4.3	18.5	5.6	4.9	8.2	10.1	11.3	3.7	3.4	2.5

Table No.4: AVT-1 (Medium)

Yield (Kg/ha)

S. NO.	Entry Name	CWZ (ZONE-V)						NEPZ (ZONE-III)													
		BANS		GODH		ZONE		VARA		BAHA		BHUB		DHOL		NADI		RANC		SABO		ZONE	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	100K-16	10360	3	4345	6	7353	3	9635	1	8594	3	6444	6	6856	8	9059	3	10048	4	9605	8	8530	6
2	100K-18	8953	6	5089	3	7021	5	9483	3	8703	2	7138	5	7893	7	11709	1	13355	1	11407	5	9663	1
3	Bio 9544(C)	10851	2	4060	8	7456	2	9548	2	8025	6	7366	4	8960	1	8594	6	11483	3	10513	6	9316	2
4	Bio 9637 (C)	9024	5	4586	5	6805	6	7522	6	9105	1	7473	2	8082	6	9111	2	11652	2	11952	4	9298	3
5	DHM 117 (C)	3852	8	4173	7	4013	8	6398	8	5824	8	7427	3	8379	4	6378	8	7259	7	10307	7	7599	8
6	DKC 8185	11500	1	5101	2	8300	1	9269	4	7816	7	7826	1	8895	2	8762	5	9260	5	12265	2	9222	4
7	IMHBG-16R-6	7623	7	4897	4	6260	7	6804	7	8378	5	6126	7	8741	3	8851	4	6939	8	12482	1	8245	7
8	VaMH 12013	9107	4	5103	1	7105	4	8041	5	8430	4	6022	8	8294	5	8292	7	8658	6	12127	3	8595	5
	Location Mean	8909	.	4669	.	6789	.	8337	.	8109	.	6978	.	8263	.	8844	.	9832	.	11332	.	8808	.
	CV (%)	16.5	.	12.15	.	16.41	.	10.72	.	15.4	.	4.92	.	13.63	.	20.9	.	18.11	.	10.84	.	13.45	.
	F (Prob)	0	.	0.17	.	0	.	0	.	0.14	.	0	.	0.41	.	0.15	.	0.01	.	0.09	.	0	.
	CD (5%)	2574.87	.	993.51	.	1317.95	.	1565.48	.	2186.55	.	601.33	.	1971.92	.	3236.86	.	3118.51	.	2150.55	.	785.4	.
	CD (1%)	3573.78	.	1378.93	.	1777.88	.	2172.79	.	3034.81	.	834.61	.	2736.91	.	4492.58	.	4328.32	.	2984.84	.	1040.94	.

Table No.4: (Contd.)

Yield (Kg/ha) **Yield (Kg/ha)**

S. NO.	Entry Name	NWPZ (ZONE-II)										PZ (ZONE-IV)																All India	
		KANP		KARN		LUDH		PANT		ZONE		COIM		DHAR		KARI		KOLH		MAND		RAHU		VAGA		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	100K-16	7737	3	11196	8	6590	4	11284	3	9202	4	11062	3	5543	5	6618	5	4856	4	8132	8	9009	8	9155	6	7965	6	8383	5
2	100K-18	7586	5	11759	3	6333	6	12768	1	9612	1	9810	6	5923	3	6597	6	6069	2	10432	2	12664	3	9344	4	8450	4	8984	3
3	Bio 9544(C)	7412	8	11949	2	7033	1	11840	2	9559	2	11908	2	5726	4	6647	4	6019	3	10442	1	13355	1	10906	2	9184	1	9115	1
4	Bio 9637 (C)	8308	2	11753	4	6823	3	11059	4	9486	3	10703	4	6024	2	5797	7	4585	6	9894	4	12739	2	11569	1	8510	3	8817	4
5	DHM 117 (C)	7649	4	12032	1	3296	8	2326	8	6326	8	8631	8	5276	7	6804	3	4045	8	9186	5	11302	4	8136	7	7361	7	6807	8
6	DKC 8185	7554	6	11728	5	7010	2	9417	5	8927	5	11951	1	6165	1	7967	1	6286	1	10213	3	11079	6	9216	5	9127	2	9016	2
7	IMHBG-16R-6	7450	7	11462	7	5397	7	8145	7	8113	7	9029	7	5397	6	5168	8	4064	7	8581	6	9014	7	7686	8	6905	8	7587	7
8	VaMH 12013	8521	1	11636	6	6417	5	8282	6	8714	6	10054	5	4229	8	7018	2	4704	5	8523	7	11183	5	9848	3	8029	5	8281	6
	Location Mean	7777	.	11689	.	6112	.	9390	.	8742	.	10393	.	5535	.	6577	.	5079	.	9425	.	11293	.	9482	.	8191	.	8374	.
	CV (%)	9.77	.	7.91	.	14.07	.	11.05	.	10.31	.	8.36	.	20.53	.	19.98	.	18.8	.	8.66	.	21.42	.	8.57	.	11.86	.	12.58	.
	F (Prob)	0.55	.	0.96	.	0	.	0	.	0	.	0	.	0.55	.	0.37	.	0.05	.	0.01	.	0.29	.	0	.	0	.	0	.
	CD (5%)	1330.6	.	1619.07	.	1506.24	.	1816.37	.	736.91	.	1520.99	.	1989.89	.	2301.16	.	1672.3	.	1429.29	.	4235.56	.	1422.69	.	707.51	.	411.06	.
	CD (1%)	1846.9	.	2247.18	.	2090.57	.	2521.02	.	980.9	.	2111.04	.	2761.85	.	3193.89	.	2321.1	.	1983.78	.	5878.72	.	1974.61	.	939.32	.	541.82	.

Table No.4: AVT-1 (Medium)

Shelling(%)

S. NO.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	100K-16	80	74	77	78	78	81	81	90	84	79	82	77	81	84	81	81
2	100K-18	82	77	79	75	78	81	81	90	84	80	81	78	82	83	83	81
3	Bio 9544(C)	86	72	79	76	78	81	80	89	85	82	81	77	80	85	83	81
4	Bio 9637 (C)	82	72	77	77	81	81	84	88	85	78	82	77	81	83	85	82
5	DHM 117 (C)	79	74	76	69	78	80	83	87	83	79	80	78	80	79	82	80
6	DKC 8185	82	76	79	76	79	80	82	88	84	80	81	77	81	83	83	81
7	IMHBG-16R-6	76	75	75	72	77	81	82	88	81	78	80	77	81	81	78	79
8	VaMH 12013	83	83	83	79	77	79	82	89	85	82	82	78	80	84	83	81
	Location Mean	81	75	78	75	78	81	82	89	84	80	81	77	81	83	82	81
	CV (%)	1.1	5.06	3.42	0	2.47	0.38	2.84	1.53	1.2	4.98	2.37	2.16	0.83	2.93	2.2	2.16
	F (Prob)	0	0.07	0	0	0.22	0	0.63	0.25	0	0.93	0	0.99	0.16	0.12	0.04	0
	CD (5%)	1.57	6.69	3.16	0	3.39	0.53	4.05	2.37	1.76	6.96	1.18	2.92	1.17	4.25	3.16	1.43
	CD (1%)	2.17	9.28	4.27	0	4.7	0.74	5.62	3.29	2.44	9.66	1.56	4.05	1.62	5.9	4.39	1.9

Table No.4: (Contd.)

Shelling(%)

S. NO.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	100K-16	81	80	80	79	79	72	79	79	78	80
2	100K-18	80	80	78	77	78	74	81	81	79	80
3	Bio 9544(C)	81	82	79	81	81	73	81	82	80	81
4	Bio 9637 (C)	79	82	78	80	80	76	84	82	80	81
5	DHM 117 (C)	77	81	79	72	79	72	79	79	77	78
6	DKC 8185	80	83	78	79	80	76	83	80	80	80
7	IMHBG-16R-6	78	75	77	76	79	73	79	78	77	78
8	VaMH 12013	80	82	79	80	82	74	83	80	80	81
	Location Mean	79	80	78	78	80	74	81	80	79	80
	CV (%)	1.36	2.26	1.9	0	1.3	1.65	3.22	1.33	1.86	2.28
	F (Prob)	0.01	0.01	0.66	0	0.01	0.01	0.11	0	0	0
	CD (5%)	1.88	3.18	2.61	0	1.81	2.13	4.57	1.86	0.84	0.64
	CD (1%)	2.61	4.42	3.62	0	2.52	2.95	6.35	2.58	1.11	0.84

Table No.4: AVT-1 (Medium)

Moisture(%)

S. NO.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	100K-16	15.9	15.8	15.8	23.5	25.3	18.6	24.3	18.5	31.3	28.6	24.3	15.0	27.7	15.0	26.5	21.1
2	100K-18	15.9	14.3	15.1	23.9	26.0	19.0	20.4	17.8	31.4	23.8	23.2	14.3	29.3	15.0	25.2	20.9
3	Bio 9544(C)	15.8	15.7	15.7	22.1	26.1	19.0	19.5	18.8	32.6	26.0	23.4	14.7	27.7	14.7	27.9	21.2
4	Bio 9637 (C)	15.9	16.5	16.2	25.8	26.3	18.9	19.6	19.2	30.4	23.8	23.4	13.7	29.0	13.6	24.2	20.1
5	DHM 117 (C)	15.7	16.5	16.1	25.9	27.3	19.3	21.1	17.8	33.1	26.6	24.4	14.7	28.5	14.2	26.3	20.9
6	DKC 8185	16.4	15.6	16.0	20.0	25.9	19.1	19.7	17.7	33.4	20.8	22.4	14.7	27.9	13.4	27.7	20.9
7	IMHBG-16R-6	16.3	16.5	16.4	23.4	24.4	19.1	20.2	18.8	35.6	22.9	23.5	14.7	27.7	14.4	23.8	20.1
8	VaMH 12013	15.9	16.9	16.4	23.1	26.4	18.6	21.6	19.3	31.7	22.8	23.4	13.3	27.9	13.9	26.0	20.3
	Location Mean	16.0	15.9	16.0	23.4	25.9	18.9	20.8	18.5	32.5	24.4	23.5	14.4	28.2	14.3	25.9	20.7
	CV (%)	2.74	6.28	4.84	8.3	1.24	0.9	5.06	3.91	8.36	11.54	7.3	5.55	5.83	2.93	5.63	5.53
	F (Prob)	0.56	0.13	0	0.04	0	0	0	0.08	0.42	0.08	0	0.23	0.86	0	0.03	0
	CD (5%)	0.76	1.75	0.91	3.41	0.56	0.3	1.84	1.27	4.75	4.93	1.05	1.4	2.88	0.73	2.55	0.94
	CD (1%)	1.06	2.43	1.23	4.73	0.78	0.42	2.55	1.76	6.59	6.85	1.39	1.94	4	1.01	3.54	1.25

Table No.4: (Contd.)

Moisture(%)

S. NO.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	100K-16	20.5	18.7	17.6	14.8	16.9	18.0	19.2	15.9	17.7	20.3
2	100K-18	18.6	15.7	17.7	16.6	18.2	18.0	18.7	16.5	17.5	19.8
3	Bio 9544(C)	20.0	17.3	17.4	15.8	17.0	18.0	17.8	16.1	17.4	20.0
4	Bio 9637 (C)	19.1	16.1	17.5	14.5	16.9	18.0	18.7	17.2	17.2	19.7
5	DHM 117 (C)	20.4	16.8	17.5	15.8	16.7	18.0	19.0	16.0	17.5	20.3
6	DKC 8185	21.4	20.6	16.9	13.8	15.7	18.0	18.2	16.1	17.6	19.6
7	IMHBG-16R-6	20.8	16.3	17.2	14.0	15.4	18.0	19.2	16.6	17.2	19.8
8	VaMH 12013	19.0	16.1	16.8	13.8	15.7	18.0	19.3	16.0	16.8	19.6
	Location Mean	19.9	17.2	17.3	14.9	16.5	18.0	18.8	16.3	17.4	19.9
	CV (%)	1.06	11.56	7.21	3.37	1.99	0	5.55	2.02	5.27	6.38
	F (Prob)	0	0.11	0.97	0	0	.	0.62	0	0	0
	CD (5%)	0.37	3.48	2.19	0.88	0.58	0	1.82	0.58	0.52	0.45
	CD (1%)	0.51	4.82	3.04	1.22	0.8	0	2.53	0.8	0.69	0.59

Table No.4: AVT-1 (Medium)

Final Plant Stand (000/ha)

S. NO.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	100K-16	63	69	66	77	60	78	66	59	61	75	69	78	80	67	61	71
2	100K-18	64	74	69	82	62	78	66	70	73	76	72	78	82	74	62	74
3	Bio 9544(C)	65	68	66	84	63	81	67	60	70	77	72	79	82	75	58	73
4	Bio 9637 (C)	64	69	67	82	60	77	66	64	74	75	71	77	81	77	58	73
5	DHM 117 (C)	59	67	63	73	67	74	67	42	38	77	67	79	81	55	6	55
6	DKC 8185	64	71	68	66	63	82	66	61	59	78	69	77	82	67	37	66
7	IMHBG-16R-6	64	74	69	52	63	74	66	49	37	76	63	78	81	56	39	64
8	VaMH 12013	63	69	66	63	61	73	67	46	61	78	65	78	81	66	36	65
	Location Mean	63	70	67	72	62	77	66	56	59	77	68	78	81	67	45	68
	CV (%)	3.03	5.22	4.39	15.72	3.38	4.16	1.46	18.8	20.97	4.64	9.78	1.56	2.15	10.19	8	5.73
	F (Prob)	0.04	0.21	0	0.04	0.04	0.04	0.36	0.07	0.01	0.89	0	0.55	0.63	0.01	0	0
	CD (5%)	3.35	6.42	3.46	19.91	3.69	5.61	1.7	18.5	21.74	6.23	4.44	2.13	3.06	11.96	6.27	3.17
	CD (1%)	4.65	8.91	4.67	27.64	5.12	7.79	2.35	25.68	30.18	8.65	5.89	2.96	4.25	16.6	8.7	4.22

Table No.4: (Contd.)

Final Plant Stand (000/ha)

S. NO.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	100K-16	65	57	77	64	64	53	74	61	64	67
2	100K-18	66	70	78	65	66	62	71	61	67	70
3	Bio 9544(C)	66	72	79	65	63	61	76	65	68	70
4	Bio 9637 (C)	65	69	77	64	66	59	75	64	67	70
5	DHM 117 (C)	64	49	77	64	67	57	69	61	64	63
6	DKC 8185	64	69	76	65	66	59	72	61	66	67
7	IMHBG-16R-6	66	48	75	63	69	49	70	61	63	64
8	VaMH 12013	64	41	75	63	69	51	70	63	62	64
	Location Mean	65	59	77	64	66	56	72	62	65	67
	CV (%)	1.42	11.47	1.57	1.23	5.17	12.56	3.27	2.19	5.9	7.24
	F (Prob)	0.03	0	0.01	0.03	0.42	0.29	0.04	0.01	0	0
	CD (5%)	1.61	11.94	2.11	1.38	5.98	12.38	4.14	2.38	2.2	1.74
	CD (1%)	2.24	16.58	2.93	1.92	8.3	17.19	5.75	3.31	2.91	2.29

Table No.4: AVT-1 (Medium)

Days to 50% Anthesis

S. NO.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	MNADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	100K-16	85	78	82	105	123	66	113	83	77	101	95	93	58	81	103	84
2	100K-18	87	79	83	107	126	68	115	87	78	105	98	97	62	84	105	87
3	Bio 9544(C)	88	78	83	109	128	68	115	89	80	105	99	94	64	85	107	88
4	Bio 9637 (C)	87	80	84	112	129	68	115	90	81	107	100	94	64	87	110	89
5	DHM 117 (C)	90	86	88	114	130	70	115	91	83	113	102	91	66	89	111	89
6	DKC 8185	87	81	84	112	130	68	113	90	81	111	101	94	65	87	111	89
7	IMHBG-16R-6	87	80	84	108	126	66	114	88	78	102	97	95	59	83	105	86
8	VaMH 12013	87	81	84	107	126	66	114	89	77	102	97	96	63	85	105	88
	Location Mean	87	80	84	109	127	68	114	88	79	106	99	94	63	85	107	87
	CV (%)	0.92	4.3	2.84	0.86	1.27	1.08	1.54	0.91	1.16	2.3	1.46	3.41	6.05	1.86	1.05	3.06
	F (Prob)	0	0.17	0	0	0	0	0.77	0	0	0	0	0.39	0.18	0	0	0
	CD (5%)	1.4	6.05	2.81	1.64	2.83	1.27	3.09	1.41	1.62	4.26	0.88	5.64	6.64	2.77	1.97	2.18
	CD (1%)	1.95	8.4	3.79	2.27	3.93	1.77	4.29	1.96	2.24	5.91	1.17	7.82	9.22	3.85	2.73	2.91

Table No.4: (Contd.)

Days to 50% Anthesis

S. NO.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	100K-16	52	68	71	73	61	54	86	50	64	80
2	100K-18	54	70	72	75	63	55	88	51	66	82
3	Bio 9544(C)	56	71	74	75	65	58	88	54	68	83
4	Bio 9637 (C)	56	71	75	73	67	61	88	54	68	84
5	DHM 117 (C)	58	71	75	76	67	62	89	55	69	86
6	DKC 8185	58	71	74	75	67	62	88	55	69	85
7	IMHBG-16R-6	57	69	74	72	63	56	88	52	66	82
8	VaMH 12013	54	69	71	73	63	56	87	52	66	82
	Location Mean	56	70	73	74	65	58	88	53	67	83
	CV (%)	1.17	1.56	1.48	2.32	1.47	2.08	3.46	1.54	2.23	2.25
	F (Prob)	0	0.04	0	0.09	0	0	0.95	0	0	0
	CD (5%)	1.14	1.92	1.89	3.01	1.66	2.11	5.32	1.42	0.85	0.66
	CD (1%)	1.58	2.66	2.63	4.17	2.3	2.93	7.38	1.98	1.13	0.86

Table No.4: AVT-1 (Medium)

Days to 50 % Silking

S. NO.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	100K-16	88	81	85	107	125	69	117	85	82	106	99	97	61	83	106	87
2	100K-18	91	82	86	108	128	70	117	90	82	110	101	101	65	86	109	90
3	Bio 9544(C)	92	81	86	111	131	71	118	91	84	109	102	98	67	88	111	91
4	Bio 9637 (C)	90	84	87	114	131	71	118	93	85	111	103	98	66	88	114	92
5	DHM 117 (C)	93	89	91	116	132	73	119	93	87	118	105	95	69	91	114	93
6	DKC 8185	90	84	87	113	132	71	116	92	85	115	103	98	68	88	115	92
7	IMHBG-16R-6	91	83	87	110	128	69	117	90	82	107	100	98	62	84	109	88
8	VaMH 12013	90	83	87	108	129	69	117	92	82	106	101	100	66	86	108	90
	Location Mean	91	83	87	111	130	70	117	91	84	110	102	98	65	87	111	90
	CV (%)	0.98	3.86	2.58	0.87	1.27	1.15	1.77	1.11	0.84	2.51	1.56	3.16	5.74	1.58	1.3	2.92
	F (Prob)	0	0.11	0	0	0	0	0.82	0	0	0	0	0.44	0.18	0	0	0
	CD (5%)	1.55	5.63	2.65	1.69	2.88	1.41	3.63	1.77	1.23	4.84	0.97	5.44	6.58	2.41	2.52	2.15
	CD (1%)	2.15	7.82	3.57	2.34	4	1.96	5.04	2.45	1.71	6.72	1.29	7.55	9.13	3.34	3.5	2.87

Table No.4: (Contd.)

Days to 50 % Silking

S. NO.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	100K-16	55	70	74	75	66	56	88	53	67	83
2	100K-18	57	71	75	75	67	57	89	55	68	85
3	Bio 9544(C)	59	72	77	77	68	60	90	56	70	86
4	Bio 9637 (C)	59	71	78	75	69	63	89	57	70	87
5	DHM 117 (C)	62	72	78	78	71	64	91	58	72	89
6	DKC 8185	61	73	77	77	70	64	90	58	71	87
7	IMHBG-16R-6	59	70	77	74	67	58	89	56	69	85
8	VaMH 12013	56	71	74	74	67	58	88	54	68	85
	Location Mean	59	71	76	76	68	60	89	56	69	86
	CV (%)	1.23	1.83	1.42	1.85	1.35	2.01	3.68	1.43	2.23	2.21
	F (Prob)	0	0.18	0	0.02	0	0	0.9	0	0	0
	CD (5%)	1.26	2.28	1.89	2.46	1.62	2.11	5.75	1.4	0.88	0.67
	CD (1%)	1.75	3.17	2.63	3.41	2.24	2.93	7.98	1.94	1.17	0.88

Table No.4: AVT-1 (Medium)

Days to 75 % Dry Husk

S. NO.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	100K-16	127	111	119	143	156	106	154	134	121	147	137	136	123	122	149	133
2	100K-18	118	110	114	144	159	108	157	135	121	153	140	138	126	122	149	134
3	Bio 9544(C)	119	111	115	145	160	109	157	134	124	153	140	135	127	123	150	134
4	Bio 9637 (C)	119	111	115	147	160	110	156	133	125	153	141	135	126	124	149	133
5	DHM 117 (C)	121	116	119	148	162	112	156	135	125	154	142	134	128	124	150	134
6	DKC 8185	119	112	116	149	162	109	157	134	126	157	142	135	128	123	150	134
7	IMHBG-16R-6	118	108	113	145	159	108	157	133	120	147	138	137	124	123	150	133
8	VaMH 12013	119	109	114	143	159	108	159	132	122	148	139	137	126	122	147	133
	Location Mean	120	111	116	146	160	109	157	134	123	151	140	136	126	123	149	133
	CV (%)	5.11	2.86	4.17	0.58	1.13	1.38	1.52	1.32	1.11	2.2	1.4	1.15	1.4	0.6	1.5	1.21
	F (Prob)	0.63	0.15	0	0	0.03	0.01	0.61	0.63	0	0.01	0	0.09	0.03	0.01	0.75	0
	CD (5%)	10.75	5.55	5.7	1.49	3.15	2.63	4.18	3.1	2.4	5.82	1.2	2.74	3.08	1.3	3.93	1.32
	CD (1%)	14.92	7.7	7.69	2.06	4.37	3.65	5.8	4.3	3.33	8.08	1.59	3.8	4.28	1.8	5.45	1.76

Table No.4: (Contd.)

Days to 75 % Dry Husk

S. NO.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	100K-16	92	103	111	115	110	103	125	92	106	123
2	100K-18	94	105	111	115	111	103	127	93	108	124
3	Bio 9544(C)	95	106	114	117	112	105	129	95	109	125
4	Bio 9637 (C)	96	105	114	115	113	109	127	96	109	125
5	DHM 117 (C)	96	105	114	118	115	109	129	97	110	126
6	DKC 8185	97	107	113	117	114	109	127	96	110	126
7	IMHBG-16R-6	96	103	113	114	111	103	127	94	108	123
8	VaMH 12013	93	105	111	114	111	103	126	93	107	123
	Location Mean	95	105	112	116	112	106	127	95	108	124
	CV (%)	0.77	2.12	1.4	1.21	0.82	1.09	1.88	1.03	1.41	1.79
	F (Prob)	0	0.51	0.09	0.02	0	0	0.48	0	0	0
	CD (5%)	1.27	3.9	2.77	2.46	1.62	2.02	4.19	1.71	0.88	0.78
	CD (1%)	1.77	5.42	3.84	3.41	2.24	2.8	5.81	2.38	1.16	1.03

Table No.4: AVT-1 (Medium)

Plant Height(cm)

S. NO.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	100K-16	247	211	229	162	170	178	176	272	221	206	198	183	187	165	222	189
2	100K-18	270	203	236	176	203	185	178	275	231	232	211	180	182	170	232	191
3	Bio 9544(C)	233	202	218	161	174	175	176	258	183	195	189	181	175	150	190	174
4	Bio 9637 (C)	252	214	233	186	209	187	166	280	249	246	218	183	197	173	233	196
5	DHM 117 (C)	215	202	208	169	198	188	163	269	218	215	203	184	176	157	205	181
6	DKC 8185	247	188	218	175	210	206	170	273	241	228	215	186	183	183	230	196
7	IMHBG-16R-6	223	198	211	174	200	188	178	262	223	210	205	180	192	160	217	187
8	VaMH 12013	223	201	212	172	194	176	182	286	223	231	209	181	180	185	225	193
	Location Mean	239	202	221	172	195	185	174	272	224	220	206	182	184	168	219	188
	CV (%)	11.14	4.81	9.08	4.89	6.41	2.28	7.96	5.64	8.53	4.95	6.23	2.89	8.23	6.08	4.6	5.71
	F (Prob)	0.27	0.13	0	0.05	0.01	0	0.69	0.44	0.03	0	0	0.84	0.65	0.01	0	0
	CD (5%)	46.58	17.05	23.69	14.74	21.85	7.42	24.18	26.86	33.41	19.12	7.86	9.22	26.49	17.89	17.65	8.79
	CD (1%)	64.65	23.66	31.95	20.46	30.32	10.3	33.56	37.28	46.37	26.53	10.41	12.8	36.77	24.82	24.5	11.71

Table No.4: (Contd.)

Plant Height(cm)

S. NO.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	100K-16	188	187	201	155	236	217	242	191	202	201
2	100K-18	194	180	223	182	250	240	269	198	217	212
3	Bio 9544(C)	184	170	201	165	237	203	248	188	200	193
4	Bio 9637 (C)	201	184	203	180	252	237	271	196	216	214
5	DHM 117 (C)	199	181	213	160	247	233	258	199	211	202
6	DKC 8185	217	196	220	162	257	252	277	193	222	214
7	IMHBG-16R-6	186	171	211	162	248	252	236	190	207	203
8	VaMH 12013	187	175	203	182	235	250	271	195	212	207
	Location Mean	194	180	209	168	245	235	259	194	211	206
	CV (%)	5.11	8.78	4.6	9.26	2.15	7.99	6.79	7.42	6.67	6.71
	F (Prob)	0.02	0.54	0.09	0.25	0	0.06	0.09	0.97	0	0
	CD (5%)	17.39	27.72	16.88	27.3	9.25	32.92	30.8	25.19	8.04	4.84
	CD (1%)	24.13	38.48	23.42	37.89	12.84	45.69	42.75	34.96	10.64	6.38

Table No.4: AVT-1 (Medium)

Ear Height(cm)

S. NO.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	100K-16	120	105	113	94	80	81	93	101	118	103	96	81	99	83	87	88
2	100K-18	125	98	112	101	98	86	92	107	126	124	105	81	98	83	95	89
3	Bio 9544(C)	118	98	108	95	86	81	88	104	118	109	98	80	102	82	75	85
4	Bio 9637 (C)	125	113	119	103	95	91	85	109	132	122	106	81	107	90	93	93
5	DHM 117 (C)	94	98	96	122	91	93	82	102	122	106	99	84	91	77	79	83
6	DKC 8185	122	92	107	89	92	98	76	104	127	117	102	81	97	88	87	88
7	IMHBG-16R-6	107	97	102	85	85	85	84	101	118	100	95	82	97	73	66	80
8	VaMH 12013	100	94	97	85	78	80	89	105	111	107	95	80	99	80	85	86
	Location Mean	114	100	107	97	88	87	86	104	121	111	100	81	99	82	83	86
	CV (%)	9.43	6.54	8.32	24.37	11.58	3.67	7.36	5.57	6.8	6.6	7.22	5.14	10.58	8.52	6.59	8.31
	F (Prob)	0.02	0.03	0	0.58	0.26	0	0.1	0.59	0.14	0.01	0	0.91	0.8	0.15	0	0
	CD (5%)	18.79	11.4	10.5	41.25	17.87	5.58	11.12	10.17	14.46	12.84	4.77	7.3	18.3	12.25	9.63	5.87
	CD (1%)	26.08	15.83	14.16	57.25	24.81	7.74	15.43	14.12	20.06	17.82	6.32	10.13	25.4	17.01	13.36	7.81

Table No.4: (Contd.)

Ear Height(cm)

S. NO.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	100K-16	90	102	94	80	119	83	138	96	103	99
2	100K-18	94	94	111	83	132	100	162	95	113	105
3	Bio 9544(C)	94	97	98	90	119	100	162	100	110	101
4	Bio 9637 (C)	111	102	98	80	131	123	157	101	118	109
5	DHM 117 (C)	103	100	110	73	129	112	157	104	116	102
6	DKC 8185	110	116	109	82	137	115	158	102	121	107
7	IMHBG-16R-6	90	93	102	70	136	88	135	89	105	96
8	VaMH 12013	102	83	98	83	117	108	159	95	109	98
	Location Mean	99	98	102	80	128	104	154	98	112	102
	CV (%)	7.28	12.58	7.01	21.15	3.81	10	9.52	5.73	8.51	812
	F (Prob)	0.01	0.17	0.07	0.89	0	0	0.21	0.07	0	0
	CD (5%)	12.66	21.66	12.58	29.7	8.52	18.18	25.61	9.8	5.83	3.06
	CD (1%)	17.57	30.06	17.46	41.22	11.82	25.23	35.54	13.6	7.71	4.03

Table No.4: AVT-1 (Medium)

Number of Cobs

S. NO.	Entry Name		NEPZ (ZONE-III)							NWPZ (ZONE-II)				
		GODH	ZONE	VARA	BAHA	DHOL	NADI	RANC	SABO	ZONE	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	100K-16	59	59	81	60	79	53	62	72	69	94	62	73	58
2	100K-18	64	64	76	60	81	63	73	73	71	94	66	74	59
3	Bio 9544(C)	60	60	84	61	82	54	71	74	71	97	74	69	60
4	Bio 9637 (C)	60	60	77	58	79	57	73	73	69	98	72	69	60
5	DHM 117 (C)	57	57	64	64	79	38	43	74	64	97	49	8	39
6	DKC 8185	56	56	63	62	79	55	62	75	67	99	62	45	52
7	IMHBG-16R-6	62	62	51	61	79	44	39	73	62	92	55	47	49
8	VaMH 12013	60	60	61	59	80	41	59	75	63	95	61	44	50
	Location Mean	60	60	70	61	80	51	60	74	67	96	63	54	53
	CV (%)	8.23	8.23	15.76	2.75	2.79	18.8	20.88	4.8	10.16	3.79	13.26	8.01	9.1
	F (Prob)	0.57	0.57	0.03	0.03	0.52	0.07	0.03	0.95	0	0.28	0.04	0	0
	CD (5%)	8.61	8.61	19.21	2.92	3.9	16.65	21.97	6.2	4.95	6.36	14.57	7.54	3.97
	CD (1%)	11.95	11.95	26.67	4.05	5.41	23.11	30.49	8.61	6.57	8.83	20.23	10.46	5.29

Table No.4: (Contd.)

Number of Cobs

S. NO.	Entry Name	PZ (ZONE-IV)								ZONE	All India
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA		
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	100K-16	62	43	73	78	61	59	71	60	63	63
2	100K-18	62	57	74	80	63	69	68	60	67	66
3	Bio 9544(C)	63	54	76	80	70	68	73	63	68	67
4	Bio 9637 (C)	63	51	75	77	62	66	72	64	66	65
5	DHM 117 (C)	61	47	74	77	64	64	67	59	64	58
6	DKC 8185	62	55	72	79	72	66	69	60	67	63
7	IMHBG-16R-6	63	40	70	77	66	55	68	60	62	59
8	VaMH 12013	61	33	73	77	66	57	67	61	62	60
	Location Mean	62	47	73	78	66	63	69	61	65	63
	CV (%)	2.12	17.76	2.71	1.83	4.72	12.62	3.27	2.93	6.88	8.55
	F (Prob)	0.29	0.04	0.07	0.05	0.01	0.3	0.04	0.07	0	0
	CD (5%)	2.3	14.72	3.48	2.49	5.42	13.93	3.97	3.13	2.55	2.03
	CD (1%)	3.2	20.43	4.83	3.46	7.52	19.34	5.52	4.35	3.38	2.67

Table:5 AVT-II (Medium)

Yield (Kg/ha)

S. No.	Entry Name	CWZ (ZONE-V)						NEPZ (ZONE-III)													
		BANS		GODH		ZONE		VARA		BAHA		BHUB		DHOL		NADI		RANC		SABO		ZONE	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	BLH-109	111095	1	6505	5	58800	1	10950	2	9847	2	7665	1	7111	6	9213	1	11363	4	12012	3	9737	2
2	Bio 9544(C)	80953	5	8976	2	44964	5	10114	5	9160	3	7400	2	7256	5	7876	3	12074	3	10848	6	9247	4
3	Bio 9637 (C)	84626	4	9831	1	47228	4	10165	4	8901	4	6873	6	7798	3	7912	2	12753	2	12239	1	9520	3
4	DHM 117 (C)	77009	6	8627	4	42818	6	6923	6	8232	5	6882	5	8191	1	6469	6	.	.	11683	4	.	.
5	DKC 8171	100700	3	5646	6	53173	3	10200	3	7931	6	7077	4	7844	2	7679	5	10723	5	11215	5	8953	5
6	IM8013	103991	2	8763	3	56377	2	11652	1	10429	1	7342	3	7748	4	7740	4	15554	1	12149	2	10374	1
	Location M	93062	.	8058	.	50560	.	10001	.	9083	.	7207	.	7658	.	7815	.	12494	.	11691	.	9346	.
	CV (%)	15.3	.	21.9	.	19.9	.	5.9	.	15.4	.	3.4	.	6.0	.	16.1	.	9.9	.	13.8	.	11.6	.
	F (Prob)	0.1	.	0.1	.	0.0	.	0.0	.	0.3	.	0.0	.	0.1	.	0.3	.	0.0	.	0.9	.	0.0	.
	CD (5%)	25836.9	.	3206.3	.	12133.4	.	1064.9	.	2551.9	.	440.4	.	830.8	.	2284.5	.	2322.2	.	2943.1	.	667.4	.
	CD (1%)	36750.0	.	4560.6	.	16550.4	.	1514.7	.	3629.8	.	626.5	.	1181.8	.	3249.4	.	3379.0	.	4186.2	.	886.4	.

Table:5 Table:5 (Contd.)

Yield (Kg/ha)

S. No.	Entry Name	NWPZ (ZONE-II)										PZ (ZONE-IV)																All India	
		KANP		KARN		LUDH		PANT		ZONE		COIM		DHAR		KARI		KOLH		MAND		RAHU		VAGA		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	BLH-109	5736	5	12245	2	6832	2	12294	1	8287	2	9301	3	4446	4	9024	1	6104	3	10985	1	14821	2	8854	3	9848	1	14984	1
2	Bio 9544(C)	5609	6	11993	3	6242	3	9948	4	7266	4	8676	6	5585	3	8265	3	4552	5	9536	5	14303	3	9441	1	9129	4	12846	5
3	Bio 9637 (C)	5890	4	9914	5	6155	5	10462	3	7502	3	9602	2	6189	2	7832	5	4814	4	9782	3	13064	5	9264	2	9060	5	13220	4
4	DHM 117 (C)	6350	1	7115	6	3990	6	865	6	3735	6	9212	4	3478	6	8780	2	3773	6	9192	6	11940	6	7596	6	8416	6	.	.
5	DKC 8171	5893	3	11204	4	6195	4	5530	5	5873	5	9173	5	4399	5	7273	6	6581	2	10059	2	14900	1	8715	4	9450	3	13519	3
6	IM8013	6013	2	12253	1	8094	1	11746	2	8618	1	11621	1	7200	1	8116	4	7151	1	9605	4	13107	4	8265	5	9644	2	14949	2
	Location M	5915	.	10787	.	6251	.	8474	.	6880	.	9598	.	5216	.	8215	.	5496	.	9860	.	13689	.	8689	.	9258	.	13524	.
	CV (%)	9.9	.	30.9	.	9.2	.	12.9	.	11.5	.	5.0	.	21.0	.	14.1	.	12.9	.	11.2	.	12.2	.	6.9	.	11.2	.	26.0	.
	F (Prob)	0.7	.	0.4	.	0.0	.	0.0	.	0.0	.	0.0	.	0.0	.	0.5	.	0.0	.	0.5	.	0.3	.	0.0	.	0.0	.	0.0	.
	CD (5%)	1060.0	.	6060.6	.	1045.7	.	1989.1	.	759.1	.	880.5	.	1989.4	.	2099.7	.	1285.7	.	2008.9	.	3027.3	.	1096.2	.	689.6	.	1337.1	.
	CD (1%)	1507.7	.	8620.5	.	1487.4	.	2829.2	.	1022.2	.	1252.4	.	2829.8	.	2986.6	.	1828.8	.	2857.5	.	4306.0	.	1559.2	.	917.1	.	1764.3	.

Table:5 AVT-II (Medium)

Shelling(%)

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BLH-109	83	86	84	81	81	82	83	89	84	82	83	75	83	85	86	82
2	Bio 9544(C)	81	75	78	75	81	80	83	89	86	78	82	74	83	83	82	81
3	Bio 9637 (C)	81	76	79	76	80	80	83	88	87	80	82	76	81	84	84	81
4	DHM 117 (C)	76	76	76	75	78	79	85	85	.	81	.	76	82	82	81	80
5	DKC 8171	80	69	75	78	79	80	83	89	87	80	82	75	82	84	83	81
6	IM8013	84	79	81	76	82	80	82	90	87	78	82	76	82	85	85	82
	Location M	80.8	76.8	78.8	76.8	80.1	80.2	82.8	88.3	86.1	80.1	82.0	75.4	82.3	83.9	83.3	81.2
	CV (%)	3.0	5.6	4.2	0.0	1.5	1.0	2.6	2.3	0.7	3.8	2.0	1.6	1.4	2.4	1.5	1.8
	F (Prob)	0.1	0.0	0.0	0.0	0.0	0.0	0.8	0.2	0.0	0.7	0.0	0.3	0.3	0.4	0.0	0.0
	CD (5%)	4.4	7.8	3.9	0.0	2.3	1.4	3.9	3.8	1.1	5.5	1.0	2.1	2.2	3.7	2.2	1.2
	CD (1%)	6.2	11.1	5.4	0.0	3.2	2.1	5.6	5.3	1.6	7.8	1.4	3.1	3.1	5.2	3.2	1.6

Table:5 (Contd.)

Shelling(%)

S. No.	Entry Name	PZ (ZONE-IV)									All India
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BLH-109	82	80	81	86	82	77	88	79	82	83
2	Bio 9544(C)	76	78	79	77	79	77	84	79	79	80
3	Bio 9637 (C)	79	82	78	89	80	77	82	80	81	81
4	DHM 117 (C)	77	75	78	81	80	72	82	80	78	.
5	DKC 8171	77	82	79	80	80	77	86	80	80	80
6	IM8013	81	83	79	89	81	81	84	78	82	82
	Location M	78.8	80.0	78.9	83.7	80.4	76.8	84.2	79.4	80.3	80.9
	CV (%)	0.5	1.6	1.6	0.0	0.8	5.7	3.9	1.8	2.6	2.5
	F (Prob)	0.0	0.0	0.1	0.0	0.0	0.3	0.3	0.7	0.0	0.0
	CD (5%)	0.7	2.3	2.3	0.0	1.1	8.0	5.9	2.7	1.2	0.7
	CD (1%)	1.0	3.3	3.3	0.0	1.6	11.3	8.4	3.8	1.6	0.9

Table:5 AVT-II (Medium)

Moisture(%)

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BLH-109	16.1	19.2	17.6	30.9	26.6	18.8	20.9	18.7	31.4	24.9	24.6	14.3	26.5	14.6	27.9	20.8
2	Bio 9544(C)	15.8	15.8	15.8	30.8	27.1	19.1	20.8	18.2	30.4	21.9	24.0	13.7	27.2	14.6	28.1	20.9
3	Bio 9637 (C)	16.2	15.4	15.8	30.4	26.0	18.3	20.9	19.0	31.0	24.8	24.3	14.7	27.2	14.1	26.3	20.6
4	DHM 117 (C)	16.1	16.3	16.2	31.3	27.9	18.6	20.7	18.8	.	24.4	.	13.3	26.4	14.4	28.0	20.5
5	DKC 8171	16.1	16.9	16.5	30.1	28.0	19.0	20.2	18.7	31.5	23.9	24.5	14.7	27.0	13.8	27.0	20.6
6	IM8013	15.7	14.4	15.0	28.9	27.5	18.8	21.2	18.8	29.2	21.9	23.7	15.0	28.0	13.9	26.0	20.7
	Location M	16.0	16.3	16.1	30.4	27.2	18.7	20.8	18.7	30.7	23.6	24.1	14.3	27.1	14.2	27.2	20.7
	CV (%)	1.9	7.2	4.9	2.8	2.4	1.1	1.3	3.8	2.2	9.2	4.1	7.5	3.3	3.4	3.7	4.2
	F (Prob)	0.4	0.0	0.0	0.1	0.0	0.0	0.0	0.8	0.0	0.4	0.0	0.4	0.4	0.3	0.1	0.0
	CD (5%)	0.6	2.1	0.9	1.6	1.2	0.4	0.5	1.3	1.3	3.9	0.6	2.0	1.6	0.9	1.8	0.7
	CD (1%)	0.8	3.0	1.3	2.2	1.7	0.5	0.7	1.9	1.8	5.6	0.8	2.8	2.3	1.3	2.6	1.0

Table:5 (Contd.)

Moisture(%)

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BLH-109	20.2	20.3	16.3	14.6	16.5	18.0	18.5	17.5	17.7	20.6
2	Bio 9544(C)	20.0	20.6	16.8	14.6	16.9	18.0	17.8	17.0	17.7	20.2
3	Bio 9637 (C)	20.3	21.8	16.7	15.2	17.6	18.0	19.2	16.8	18.2	20.5
4	DHM 117 (C)	18.6	19.3	17.6	15.1	17.3	18.0	18.5	16.5	17.6	.
5	DKC 8171	20.7	18.1	16.3	13.7	16.2	18.0	18.5	16.3	17.2	20.2
6	IM8013	19.6	19.4	16.0	15.4	15.7	18.0	18.7	16.2	17.3	19.9
	Location M	19.9	19.9	16.6	14.8	16.7	18.0	18.5	16.7	17.6	20.2
	CV (%)	1.9	2.7	3.1	4.7	0.9	0.0	4.0	2.8	2.8	4.0
	F (Prob)	0.0	0.0	0.0	0.1	0.0	.	0.5	0.1	0.0	0.0
	CD (5%)	0.7	1.0	0.9	1.3	0.3	0.0	1.3	0.8	0.3	0.3
	CD (1%)	1.0	1.4	1.3	1.8	0.4	0.0	1.9	1.2	0.4	0.4

Table:5 AVT-II (Medium)

Final Plant Stand (000/ha)

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BLH-109	598	73	335	71	63	78	67	48	69	73	67	75	81	70	56	67
2	Bio 9544(C)	612	74	343	72	62	80	66	49	75	69	68	74	82	75	56	68
3	Bio 9637 (C)	588	77	333	81	64	81	66	47	74	78	70	76	64	71	56	68
4	DHM 117 (C)	607	74	341	66	63	77	66	41	23	74	59	75	47	59	4	46
5	DKC 8171	636	73	354	71	66	80	65	47	73	72	68	75	79	60	29	55
6	IM8013	624	72	348	79	64	82	66	43	72	77	69	76	80	76	59	70
	Location M	611	74	342	73	64	80	66	46	64	74	67	75	72	69	43	62
	CV (%)	6.2	8.1	7.4	5.0	5.2	2.1	1.6	14.6	4.1	6.0	5.7	1.9	25.2	9.3	9.1	7.1
	F (Prob)	0.7	0.9	0.0	0.0	0.8	0.0	0.5	0.6	0.0	0.3	0.0	0.6	0.2	0.0	0.0	0.0
	CD (5%)	69.1	10.9	30.6	6.7	6.1	3.1	1.9	12.2	4.8	8.1	2.3	2.6	33.1	11.6	7.1	4.3
	CD (1%)	98.2	15.5	41.8	9.5	8.6	4.4	2.7	17.3	6.9	11.5	3.1	3.7	47.1	16.6	10.1	5.7

Table:5 (Contd.)

Final Plant Stand (000/ha)

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BLH-109	66	47	78	64	73	93	75	64	70	95
2	Bio 9544(C)	66	53	79	63	76	97	73	65	71	97
3	Bio 9637 (C)	66	56	78	62	79	97	74	64	72	97
4	DHM 117 (C)	66	30	78	61	75	79	73	64	66	88
5	DKC 8171	66	45	76	64	79	82	72	64	68	95
6	IM8013	67	63	80	65	78	93	72	64	73	99
	Location M	66	49	78	63	77	90	73	64	70	95
	CV (%)	1.2	18.9	1.5	1.2	3.6	4.3	3.3	1.1	5.1	9.5
	F (Prob)	0.5	0.0	0.1	0.0	0.1	0.0	0.7	0.5	0.0	0.0
	CD (5%)	1.4	16.9	2.1	1.4	5.1	7.1	4.5	1.3	2.1	3.3
	CD (1%)	2.0	24.0	3.0	2.0	7.2	10.1	6.3	1.8	2.7	4.3

Table:5 AVT-II (Medium)

Days to 50 % Anthesis

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BLH-109	86	82	84	107	129	66	113	90	79	112	99	96	63	87	110	89
2	Bio 9544(C)	87	82	84	108	130	69	115	90	79	106	99	92	64	87	109	88
3	Bio 9637 (C)	88	80	84	110	131	67	110	91	80	108	100	94	67	88	112	90
4	DHM 117 (C)	88	82	85	111	134	69	114	90	.	110	.	94	67	88	113	91
5	DKC 8171	89	79	84	107	132	68	113	89	77	110	99	96	64	86	110	89
6	IM8013	88	80	84	104	126	67	117	90	76	103	98	96	62	82	107	87
	Location M	88	81	84	108	130	68	114	90	78	108	100	95	64	86	110	89
	CV (%)	2.2	4.7	3.3	1.1	1.1	1.2	2.2	1.0	1.3	3.6	2.0	2.0	2.1	1.1	1.3	1.6
	F (Prob)	0.4	1.0	0.0	0.0	0.0	0.0	0.1	0.6	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0
	CD (5%)	3.4	6.9	3.3	2.1	2.5	1.5	4.6	1.7	1.9	7.1	1.2	3.4	2.4	1.7	2.5	1.2
	CD (1%)	4.9	9.8	4.6	3.1	3.6	2.2	6.6	2.4	2.8	10.0	1.6	4.8	3.5	2.4	3.6	1.6

Table:5 (Contd.)

Days to 50 % Anthesis

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BLH-109	55	71	69	75	64	59	81	53	66	83
2	Bio 9544(C)	54	70	71	73	65	58	85	53	66	83
3	Bio 9637 (C)	55	69	71	71	65	60	84	55	66	84
4	DHM 117 (C)	55	70	78	75	67	60	86	54	68	.
5	DKC 8171	53	71	71	72	63	57	83	52	65	83
6	IM8013	51	67	71	70	62	56	83	51	64	81
	Location M	54	70	72	73	65	58	84	53	66	83
	CV (%)	1.0	2.0	1.0	1.0	1.5	1.2	2.6	1.3	1.7	2.1
	F (Prob)	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
	CD (5%)	1.0	2.5	1.4	1.3	1.7	1.3	3.9	1.2	0.6	0.6
	CD (1%)	1.4	3.6	1.9	1.9	2.5	1.9	5.5	1.8	0.8	0.8

Table:5 AVT-II (Medium)

Days to 50 % Silking

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BLH-109	89	84	87	108	131	69	116	92	83	116	102	99	66	88	114	92
2	Bio 9544(C)	91	85	88	109	132	71	118	92	83	111	102	95	66	90	112	91
3	Bio 9637 (C)	91	83	87	111	134	70	114	93	83	113	103	97	69	90	115	93
4	DHM 117 (C)	92	85	89	113	136	72	117	93	.	116	.	98	70	91	117	94
5	DKC 8171	92	82	87	109	134	71	117	92	81	115	103	99	67	88	114	92
6	IM8013	92	83	87	105	128	70	120	92	80	108	100	100	65	84	110	90
	Location M	91	84	87	109	132	70	117	92	82	113	103	98	67	88	114	92
	CV (%)	1.8	4.6	3.1	1.2	1.0	1.5	2.2	1.0	1.3	3.3	1.9	1.4	2.5	1.4	1.2	1.6
	F (Prob)	0.4	0.9	0.0	0.0	0.0	0.1	0.2	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
	CD (5%)	3.0	6.9	3.3	2.4	2.5	1.9	4.6	1.7	1.9	6.7	1.2	2.6	3.0	2.3	2.6	1.2
	CD (1%)	4.3	9.8	4.5	3.4	3.5	2.7	6.6	2.4	2.8	9.6	1.6	3.7	4.3	3.3	3.6	1.6

Table:5 (Contd.)

Days to 50 % Silking

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BLH-109	58	72	72	77	67	61	83	56	68	86
2	Bio 9544(C)	57	72	74	75	69	60	87	57	69	86
3	Bio 9637 (C)	57	70	74	73	69	62	86	57	68	86
4	DHM 117 (C)	57	71	81	77	71	62	87	56	70	.
5	DKC 8171	56	72	73	74	68	59	84	55	68	86
6	IM8013	55	69	73	72	64	58	85	53	66	84
	Location M	57	71	75	74	68	60	85	56	68	86
	CV (%)	1.2	1.8	0.8	0.8	1.2	1.2	2.4	1.6	1.6	2.0
	F (Prob)	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
	CD (5%)	1.2	2.3	1.1	1.1	1.5	1.3	3.7	1.6	0.6	0.6
	CD (1%)	1.8	3.3	1.6	1.6	2.2	1.9	5.3	2.3	0.8	0.8

Table:5 AVT-II (Medium)

Days to 75% Dry Husk

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BLH-109	118	111	115	144	161	110	156	132	119	155	140	140	125	124	150	135
2	Bio 9544(C)	119	109	114	145	162	106	157	132	120	156	140	140	126	124	152	136
3	Bio 9637 (C)	120	110	115	147	164	112	156	132	121	154	141	139	129	126	153	137
4	DHM 117 (C)	121	111	116	148	165	109	156	133	.	151	.	140	130	127	153	138
5	DKC 8171	121	112	117	148	163	110	157	132	119	157	141	141	126	128	154	137
6	IM8013	120	109	115	141	161	109	158	132	118	154	139	139	126	124	151	135
	Location M	120	110	115	146	163	109	157	132	119	154	141	140	127	126	152	136
	CV (%)	1.6	3.1	2.3	0.8	0.8	1.4	1.0	0.7	1.0	1.6	1.1	1.8	1.1	0.9	1.2	1.3
	F (Prob)	0.4	0.9	0.0	0.0	0.0	0.0	0.7	0.4	0.2	0.2	0.0	0.9	0.0	0.0	0.1	0.0
	CD (5%)	3.5	6.1	3.2	2.2	2.3	2.8	2.9	1.8	2.2	4.5	0.9	4.5	2.4	1.9	3.2	1.4
	CD (1%)	5.0	8.7	4.3	3.1	3.2	3.9	4.1	2.5	3.2	6.4	1.3	6.4	3.4	2.8	4.6	1.9

Table:5 (Contd.)

Days to 75% Dry Husk

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BLH-109	95	105	107	116	108	107	124	95	107	124
2	Bio 9544(C)	93	104	110	115	110	106	127	96	108	124
3	Bio 9637 (C)	95	104	109	113	110	107	126	96	108	125
4	DHM 117 (C)	94	104	116	117	112	107	128	96	109	.
5	DKC 8171	92	106	110	114	109	105	126	94	107	125
6	IM8013	93	103	108	114	105	103	125	94	106	123
	Location M	94	104	110	115	109	106	126	95	107	124
	CV (%)	0.8	1.8	1.9	1.8	0.8	0.8	1.8	1.1	1.5	1.4
	F (Prob)	0.0	0.5	0.0	0.3	0.0	0.0	0.4	0.1	0.0	0.0
	CD (5%)	1.4	3.4	3.8	3.8	1.5	1.6	4.0	1.9	0.9	0.6
	CD (1%)	2.0	4.8	5.5	5.5	2.2	2.2	5.8	2.6	1.2	0.8

Table:5 AVT-II (Medium)

Plant Height(cm)

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BLH-109	273	214	244	199	212	202	183	253	217	212	211	185	207	183	251	206
2	Bio 9544(C)	243	219	231	158	159	183	174	282	205	198	194	187	173	157	196	178
3	Bio 9637 (C)	267	199	233	207	199	198	197	257	219	237	216	186	195	187	223	198
4	DHM 117 (C)	247	208	227	181	181	191	187	261	.	199	.	190	190	170	204	188
5	DKC 8171	267	216	241	184	206	198	201	262	234	247	219	191	212	190	245	210
6	IM8013	247	213	230	185	186	197	195	273	199	215	207	183	187	170	208	187
	Location M	257	211	234	186	191	195	189	265	215	218	208	187	194	176	221	195
	CV (%)	4.3	7.6	5.9	14.1	6.1	4.7	9.5	6.1	4.6	5.8	7.7	3.0	5.5	6.0	4.7	4.9
	F (Prob)	0.0	0.7	0.0	0.4	0.0	0.3	0.5	0.3	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
	CD (5%)	20.2	29.3	16.7	47.8	21.2	16.7	32.6	29.5	18.4	23.1	9.8	10.0	19.5	19.1	18.9	7.9
	CD (1%)	28.7	41.7	22.7	68.0	30.1	23.8	46.3	41.9	26.8	32.8	13.0	14.3	27.7	27.1	26.9	10.5

Table:5 (Contd.)

Plant Height(cm)

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BLH-109	182	183	207	163	254	305	309	226	229	220
2	Bio 9544(C)	123	159	204	135	226	288	251	189	197	196
3	Bio 9637 (C)	184	183	218	127	250	310	277	196	218	215
4	DHM 117 (C)	189	153	217	155	239	285	275	205	215	.
5	DKC 8171	186	198	221	160	254	317	301	220	232	224
6	IM8013	185	163	212	163	247	287	259	184	212	208
	Location M	175	173	213	151	245	299	279	203	217	211
	CV (%)	9.8	7.9	4.8	14.8	3.5	6.6	5.5	2.2	6.9	6.8
	F (Prob)	0.0	0.0	0.4	0.3	0.0	0.3	0.0	0.0	0.0	0.0
	CD (5%)	31.1	24.8	18.7	40.5	15.4	35.9	27.9	8.2	8.6	5.0
	CD (1%)	44.2	35.3	26.6	57.6	22.0	51.1	39.7	11.7	11.4	6.6

Table:5 AVT-II (Medium)

Ear Height(cm)

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)								NWPZ (ZONE-II)				
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE	KANP	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BLH-109	138	109	124	110	94	98	91	105	116	105	103	88	115	88	97	97
2	Bio 9544(C)	118	106	112	96	68	91	86	102	108	105	94	86	102	78	74	85
3	Bio 9637 (C)	137	98	117	110	86	100	101	101	115	125	105	84	119	90	85	95
4	DHM 117 (C)	122	107	114	98	77	88	92	102	.	96	.	87	114	90	73	91
5	DKC 8171	130	112	121	117	75	91	90	104	118	120	102	86	109	90	86	93
6	IM8013	117	114	115	89	65	89	107	106	98	99	93	86	95	77	62	80
	Location M	127	108	117	103	77	93	95	103	111	108	98	86	109	86	79	90
	CV (%)	8.7	14.2	11.4	7.8	18.0	7.1	12.9	4.5	5.4	9.0	9.5	3.9	8.2	12.9	6.7	8.6
	F (Prob)	0.1	0.8	0.0	0.0	0.2	0.3	0.4	0.8	0.0	0.0	0.0	0.7	0.1	0.5	0.0	0.0
	CD (5%)	20.0	27.9	16.0	14.7	25.4	11.9	22.2	8.4	11.3	17.6	5.8	6.1	16.3	20.0	9.7	6.4
	CD (1%)	28.4	39.6	21.9	20.9	36.1	17.0	31.5	12.0	16.5	25.0	7.6	8.7	23.2	28.5	13.8	8.6

Table:5 (Contd.)

Ear Height(cm)

S. No.	Entry Name	PZ (ZONE-IV)									
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BLH-109	102	90	107	83	133	118	189	106	116	109
2	Bio 9544(C)	63	86	109	80	118	115	159	94	103	97
3	Bio 9637 (C)	95	90	110	80	128	130	167	100	113	107
4	DHM 117 (C)	99	77	105	77	124	130	167	103	110	.
5	DKC 8171	94	90	110	75	125	127	178	105	113	106
6	IM8013	85	70	105	68	122	95	150	80	97	94
	Location M	90	84	108	77	125	119	168	98	109	103
	CV (%)	11.9	9.6	6.2	12.8	7.8	8.1	4.8	3.9	7.9	9.0
	F (Prob)	0.0	0.0	0.9	0.6	0.6	0.0	0.0	0.0	0.0	0.0
	CD (5%)	19.4	14.6	12.2	18.0	17.8	17.5	14.8	6.9	4.9	3.3
	CD (1%)	27.6	20.8	17.4	25.6	25.3	24.9	21.1	9.8	6.5	4.3

Table:5 AVT-II (Medium)

Number of Cobs

S. No.	Entry Name	CWZ (ZONE-V)		NEPZ (ZONE-III)							NWPZ (ZONE-II)			
		GODH	ZONE	VARA	BAHA	DHOL	NADI	RANC	SABO	ZONE	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BLH-109	79	79	103	91	118	71	94	106	97	143	98	98	98
2	Bio 9544(C)	82	82	123	95	118	74	108	100	103	144	108	100	104
3	Bio 9637 (C)	89	89	118	92	118	71	107	112	103	109	103	104	103
4	DHM 117 (C)	80	80	81	91	118	61	.	107	.	86	81	7	44
5	DKC 8171	78	78	99	95	117	71	86	104	95	135	85	55	70
6	IM8013	76	76	111	94	118	64	110	111	101	139	111	105	108
	Location M	81	81	106	93	118	69	101	106	99	126	98	78	88
	CV (%)	8.8	8.8	7.2	4.6	1.9	14.6	7.7	6.1	6.9	20.9	7.1	8.3	7.6
	F (Prob)	0.4	0.4	0.0	0.7	1.0	0.6	0.0	0.3	0.0	0.1	0.0	0.0	0.0
	CD (5%)	12.9	12.9	13.9	7.8	4.0	18.3	14.6	11.8	4.6	47.9	12.6	11.8	8.1
	CD (1%)	18.4	18.4	19.8	11.0	5.6	26.0	21.3	16.8	6.1	68.1	17.9	16.8	11.0

Table:5 (Contd.)

Number of Cobs

S. No.	Entry Name	PZ (ZONE-IV)									All India
		COIM	DHAR	KARI	KOLH	MAND	PEDD	RAHU	VAGA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BLH-109	94	56	109	114	103	104	109	92	104	99
2	Bio 9544(C)	94	75	111	115	110	109	105	94	105	103
3	Bio 9637 (C)	95	72	109	114	111	108	106	92	105	103
4	DHM 117 (C)	95	37	112	114	107	89	106	90	102	.
5	DKC 8171	94	51	107	117	114	92	104	90	103	94
6	IM8013	96	82	113	119	110	104	104	91	105	102
	Location M	95	62	110	116	109	101	106	92	104	99
	CV (%)	1.7	21.1	1.5	1.4	5.3	4.3	3.3	2.1	3.1	5.7
	F (Prob)	0.6	0.0	0.0	0.0	0.4	0.0	0.7	0.3	0.0	0.0
	CD (5%)	3.0	23.9	3.0	2.9	10.5	7.9	6.4	3.5	2.0	2.2
	CD (1%)	4.3	34.0	4.3	4.2	15.0	11.3	9.1	5.0	2.6	3.0

Table No.6: QPM-I-II-III

Yield (Kg/ha)

S. No.	Entry Name	CWZ (ZONE-V)						NEPZ (ZONE-III)													
		BANS		GODH		ZONE		VARA		BAHA		BHUB		DHOL		NADI		RANC		SABO		ZONE	
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	BIO9637 (FILLER)	1009	7	9416	5	5213	7	3038	7	8349	5	7165	1	7374	2	3879	6	.	.	2493	7	5261	6
2	HQPM1	7166	1	12521	1	9843	1	7146	3	9379	4	6772	2	8602	1	5273	2	7822	3	8184	1	7870	2
3	HQPM4	5583	3	8707	6	7145	5	7014	4	9752	3	6206	5	6177	7	4447	3	7324	4	7208	3	7545	3
4	HQPM7	6151	2	10668	4	8409	2	8180	1	9951	2	6620	3	7328	3	4337	4	8016	2	7435	2	8046	1
5	IHQ-0922	3320	6	11259	2	7290	4	3510	6	6568	7	5164	7	7301	4	3536	7	9332	1	3494	6	4684	7
6	MMHQPM-10-11-15	3953	5	8537	7	6245	6	5718	5	7270	6	6393	4	6921	5	4081	5	4236	6	4054	5	5859	5
7	MMHQPM-16-1213	5086	4	10738	3	7912	3	7280	2	10371	1	6136	6	6257	6	5393	1	5192	5	6068	4	7464	4
	Location Mean	4610	.	10264	.	7437	.	5984	.	8806	.	6351	.	7137	.	4421	.	6987	.	5562	.	6676	.
	CV (%)	27	.	22	.	25	.	9	.	11	.	10	.	22	.	29	.	26	.	18	.	12	.
	F (Prob)	0	.	0	.	0	.	0	.	0	.	0	.	1	.	1	.	0	.	0	.	0	.
	CD (5%)	2186	.	4102	.	2201	.	964	.	1734	.	1185	.	2853	.	2290	.	3251	.	1781	.	673	.
	CD (1%)	3065	.	5750	.	2983	.	1352	.	2432	.	1662	.	4000	.	3210	.	4624	.	2497	.	898	.

Table No.6: (Contd.)

Yield (Kg/ha)

S. No.	Entry Name	NWPZ (ZONE-II)						PZ (ZONE-IV)																All India	
		KANP		LUDH		PANT		COIM		DHAR		KARI		KOLH		MAND		RAHU		VAGA		ZONE			
		Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R
1	BIO9637 (FILLER)	5346	5	2431	7	7859	1	3913	7	1858	7	7464	1	2602	7	8099	6	6751	6	4135	7	5243	7	5244	7
2	HQPM1	5254	6	5592	1	6503	2	9286	1	3796	3	6313	4	3679	4	8934	3	9157	3	9244	1	7491	1	8057	1
3	HQPM4	7094	1	3436	4	4679	3	9072	2	3165	4	5842	6	4022	1	8888	4	7673	5	8402	2	7245	4	7336	4
4	HQPM7	5146	7	4271	2	4476	5	8923	3	3802	2	6349	3	3807	3	9595	2	9129	4	7986	5	7332	3	7788	2
5	IHQ-0922	6689	4	2784	6	4554	4	7237	6	2013	6	5844	5	3818	2	6277	7	10213	2	7678	6	6171	6	5834	6
6	MMHQPM-10-11-15	6964	2	2965	5	2372	7	7306	5	3049	5	5551	7	3179	6	8390	5	6627	7	8127	4	6511	5	6225	5
7	MMHQPM-16-1213	6941	3	3990	3	4359	6	8255	4	3858	1	7333	2	3290	5	10077	1	11251	1	8154	3	7422	2	7526	3
	Location Mean	6205	.	3639	.	4972	.	7713	.	3077	.	6385	.	3485	.	8609	.	8686	.	7675	.	6774	.	6859	.
	CV (%)	24	.	22	.	30	.	8	.	40	.	17	.	15	.	10	.	27	.	4	.	11	.	15	.
	F (Prob)	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.	0	.
	CD (5%)	2676	.	1448	.	2644	.	1115	.	2200	.	1953	.	938	.	1497	.	4112	.	509	.	533	.	513	.
	CD (1%)	3752	.	2030	.	3706	.	1563	.	3084	.	2739	.	1316	.	2099	.	5765	.	713	.	710	.	677	.

Table No.6: QPM-I-II-III

Shelling %

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BIO9637 (FILLER)	77	83	80	71	76	81	81	89	.	80	.
2	HQPM1	82	85	84	76	81	83	80	88	82	81	82
3	HQPM4	79	83	81	73	79	79	80	89	81	80	80
4	HQPM7	78	82	80	74	80	80	80	88	82	81	80
5	IHQ-0922	74	85	79	75	73	81	80	87	81	79	80
6	MMHQPM-10-11-15	82	85	84	77	75	81	80	88	82	81	81
7	MMHQPM-16-1213	80	81	81	73	81	80	81	87	84	81	81
	Location Mean	79	84	81	74	78	81	80	88	82	81	80
	CV (%)	3	5	4	0	2	1	2	1	1	2	1
	F (Prob)	0	1	0	0	0	0	1	0	0	1	0
	CD (5%)	5	7	4	0	2	2	3	2	1	3	.
	CD (1%)	7	10	5	0	3	3	4	3	2	4	.

Table No.6: Table No.6 (Contd.)

Shelling %

S. No.	Entry Name	NWPZ (ZONE-II)					PZ (ZONE-IV)								
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BIO9637 (FILLER)	78	80	76	76	78	78	82	75	72	81	79	77	78	.
2	HQPM1	76	80	82	83	80	80	81	75	79	79	81	82	80	81
3	HQPM4	78	80	75	72	76	77	79	76	75	80	80	81	78	79
4	HQPM7	74	79	78	78	77	78	80	75	77	80	78	78	78	79
5	IHQ-0922	77	80	78	77	78	81	81	72	81	80	81	79	79	79
6	MMHQPM-10-11-15	78	80	82	75	79	78	80	75	81	79	78	80	79	80
7	MMHQPM-16-1213	76	81	81	78	79	78	81	76	82	79	81	78	79	80
	Location Mean	77	80	79	77	78	78	81	75	78	80	80	79	79	79
	CV (%)	3	1	2	4	3	1	1	3	0	2	3	1	1.66	2.23
	F (Prob)	0	1	0	0	0	0	0	0	0	1	0	0	0	0
	CD (5%)	4	2	3	5	2	1	2	4	0	2	4	1	0.8	.
	CD (1%)	5	2	5	7	2	1	2	5	0	3	5	2	1.06	.

Table No.6: QPM-I-II-III

Final plant stand (000/ha)

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BIO9637 (FILLER)	8	79	44	24	57	80	52	34	4	19	46
2	HQPM1	60	76	68	64	63	76	58	46	44	60	64
3	HQPM4	56	75	65	60	60	75	51	41	46	52	60
4	HQPM7	57	77	67	64	58	76	55	48	41	54	61
5	IHQ-0922	58	78	68	60	58	74	55	30	63	56	61
6	MMHQPM-10-11-15	46	75	60	51	58	77	57	31	24	35	56
7	MMHQPM-16-1213	54	73	63	54	57	72	53	48	25	38	55
	Location Mean	48	76	62	54	59	76	54	40	35	45	57
	CV (%)	18	6	11	10	5	4	7	37	22	15	8
	F (Prob)	0	1	0	0	0	0	0	1	0	0	0
	CD (5%)	16	8	8	10	5	5	7	26	14	12	3
	CD (1%)	22	11	11	14	7	7	10	37	19	17	5

Table No.6: (Contd.)

Final plant stand (000/ha)

S. No.	Entry Name	NWPZ (ZONE-II)				PZ (ZONE-IV)								
		KANP	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BIO9637 (FILLER)	75	37	49	56	28	13	74	61	68	67	29	54	50
2	HQPM1	75	52	34	64	62	40	78	63	65	75	63	68	66
3	HQPM4	80	42	15	61	63	31	76	64	70	73	63	68	64
4	HQPM7	74	43	13	59	64	34	78	63	66	75	62	68	64
5	IHQ-0922	80	55	47	67	63	48	76	63	65	73	61	67	65
6	MMHQPM-10-11-15	79	37	10	58	60	31	77	63	67	67	61	66	61
7	MMHQPM-16-1213	80	37	12	58	61	33	78	62	70	76	62	68	62
	Location Mean	77	43	26	60	57	33	77	63	67	72	57	66	62
	CV (%)	10	12	24	10	2	25	3	2	5	6	4	4	8
	F (Prob)	1	0	0	0	0	0	0	0	0	0	0	0	0
	CD (5%)	13	9	11	7	2	15	4	2	6	8	4	2	1.95
	CD (1%)	18	13	15	10	3	20	5	3	8	11	5	2	2.57

Table No.6: QPM-I-II-III

Moisture %

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BIO9637 (FILLER)	15.3	16.0	15.6	29.8	27.3	19.3	20.8	19.2	.	23.4	.
2	HQPM1	17.3	15.1	16.2	29.1	27.2	19.3	20.7	18.8	32.4	22.0	24.2
3	HQPM4	16.8	15.8	16.3	28.3	25.3	19.0	19.9	19.2	29.5	25.6	23.8
4	HQPM7	16.4	15.0	15.7	25.9	26.3	18.8	21.2	18.5	32.2	26.1	24.1
5	IHQ-0922	16.5	15.3	15.9	21.0	22.9	18.9	20.7	18.8	27.2	26.9	22.3
6	MMHQPM-10-11-15	16.5	16.3	16.4	27.9	25.3	19.1	19.8	18.8	29.1	23.0	23.3
7	MMHQPM-16-1213	17.3	14.0	15.6	26.1	26.7	18.8	22.0	18.2	29.2	26.1	23.9
	Location Mean	16.5	15.3	15.9	26.9	25.8	19.0	20.7	18.8	29.9	24.7	23.6
	CV (%)	1	6	4	4	1	1	3	3	10	11	7
	F (Prob)	0	0	0	0	0	0	0	0	0	0	0
	CD (5%)	0	2	1	2	1	0	1	1	5	5	.
	CD (1%)	0	2	1	3	1	1	2	1	8	7	.

Table No.6: (Contd.)

Moisture %

S. No.	Entry Name	NWPZ (ZONE-II)					PZ (ZONE-IV)								
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BIO9637 (FILLER)	14.3	26.5	13.9	24.9	19.9	16.3	20.0	17.3	17.1	16.2	19.0	15.9	17.4	.
2	HQPM1	14.3	26.7	13.3	26.1	20.1	20.0	18.5	17.7	14.5	17.1	19.2	16.5	17.6	20.3
3	HQPM4	14.7	26.0	13.2	27.0	20.2	19.5	19.8	17.7	14.9	16.4	19.7	16.9	17.8	20.2
4	HQPM7	15.0	26.8	14.2	26.2	20.5	20.1	19.8	17.2	16.6	15.9	18.8	15.8	17.7	20.3
5	IHQ-0922	15.0	26.0	13.0	23.6	19.4	17.7	17.3	17.0	13.7	15.6	18.5	16.4	16.6	19.1
6	MMHQPM-10-11-15	15.3	27.6	14.2	24.9	20.5	17.6	21.4	16.7	15.1	15.7	18.5	16.0	17.3	19.9
7	MMHQPM-16-1213	14.3	26.5	13.8	24.3	19.7	19.9	17.8	16.8	16.0	15.6	18.2	15.9	17.2	19.9
	Location Mean	14.7	26.6	13.6	25.3	20.1	18.7	19.2	17.2	15.4	16.1	18.8	16.2	17.4	19.9
	CV (%)	6	2	3	2	3	3	12	2	5	4	3	2	5.7	5.87
	F (Prob)	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	CD (5%)	2	1	1	1	1	1	4	1	1	1	1	1	0.61	.
	CD (1%)	2	1	1	2	1	1	6	1	2	2	2	1	0.81	.

Table No.6: QPM-I-II-III

Days to 50% Anthesis

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BIO9637 (FILLER)	89	80	85	112	123	66	116	98	.	104	.
2	HQPM1	88	82	85	111	123	69	116	99	79	102	100
3	HQPM4	89	79	84	110	120	68	114	98	81	101	99
4	HQPM7	89	78	84	110	121	69	119	99	81	103	100
5	IHQ-0922	77	79	78	94	110	63	115	86	66	87	89
6	MMHQPM-10-11-15	89	77	83	108	118	68	116	96	79	101	98
7	MMHQPM-16-1213	88	79	83	109	122	68	116	97	81	103	99
	Location Mean	87	79	83	108	120	67	116	96	78	100	98
	CV (%)	2	2	2	1	1	3	3	1	1	1	2
	F (Prob)	0	0	0	0	0	0	1	0	0	0	0
	CD (5%)	3	3	2	2	3	3	6	2	2	2	.
	CD (1%)	4	5	3	2	4	5	8	2	3	3	.

(Contd.)

Days to 50% Anthesis

NWPZ (ZONE-II)					PZ (ZONE-IV)								
KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	RAHU	VAGA	ZONE	All India
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
88	58	88	108	86	61	71	74	75	67	85	53	69	.
90	62	84	107	86	59	70	75	73	67	84	53	69	85
93	63	85	107	87	60	70	75	72	67	82	53	68	84
89	62	85	106	85	60	70	74	71	66	83	52	68	84
94	52	71	88	76	45	66	61	59	51	75	42	57	74
94	57	82	105	84	57	70	73	71	64	77	50	66	83
95	64	85	105	87	59	69	75	72	64	81	53	68	84
92	60	83	104	84	57	70	72	71	64	81	51	66	83
10	2	3	1	6	1	2	2	3	2	6	2	3.39	3.44
1	0	0	0	0	0	0	0	0	0	0	0	0	0
17	2	5	2	4	1	2	3	3	2	9	2	1.38	.
24	3	6	3	5	2	3	4	5	3	13	3	1.84	.

Table No.6: QPM-I-II-III

Days to 50% Silking

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BIO9637 (FILLER)	92	83	88	115	125	71	118	101	.	108	.
2	HQPM1	94	84	89	112	125	72	118	101	83	107	103
3	HQPM4	93	81	87	112	122	71	116	101	84	106	102
4	HQPM7	93	81	87	112	124	72	121	101	84	107	103
5	IHQ-0922	81	82	81	96	112	67	117	89	72	91	92
6	MMHQPM-10-11-15	93	80	86	110	121	71	118	99	83	107	101
7	MMHQPM-16-1213	92	81	86	111	124	71	118	99	84	108	102
	Location Mean	91	82	86	109	122	71	118	99	82	105	101
	CV (%)	3	2	2	1	1	2	3	1	1	1	2
	F (Prob)	0	0	0	0	0	0	1	0	0	0	0
	CD (5%)	4	3	3	2	3	2	6	2	1	2	.
	CD (1%)	6	5	3	3	4	3	8	3	2	2	.

Table No.6: (Contd.)

Days to 50% Silking

S. No.	Entry Name	NWPZ (ZONE-II)					PZ (ZONE-IV)								
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BIO9637 (FILLER)	92	61	90	112	89	63	72	77	77	70	86	57	72	.
2	HQPM1	93	65	86	110	89	62	71	78	75	70	85	55	71	87
3	HQPM4	97	66	87	110	90	63	72	78	74	70	84	56	71	87
4	HQPM7	92	64	87	109	88	62	71	77	73	69	85	55	70	87
5	IHQ-0922	97	55	73	92	79	48	68	64	61	53	76	46	59	77
6	MMHQPM-10-11-15	98	56	84	108	87	61	71	76	73	67	78	53	69	85
7	MMHQPM-16-1213	99	66	87	108	90	63	71	78	74	69	83	57	71	87
	Location Mean	95	62	85	107	87	60	71	75	73	67	82	54	69	85
	CV (%)	10	3	4	1	6	1	3	2	2	1	6	2	3.25	3.41
	F (Prob)	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	CD (5%)	17	4	6	2	4	1	3	3	3	1	9	2	1.37	.
	CD (1%)	24	5	8	3	6	2	5	4	4	2	12	3	1.82	.

Table No.6: QPM-I-II-III

Days to 75% Dry Husk

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BIO9637 (FILLER)	125	111	118	149	156	110	153	143	.	151	.
2	HQPM1	125	112	119	148	156	109	153	142	123	151	140
3	HQPM4	124	111	117	147	155	110	152	142	124	150	140
4	HQPM7	125	109	117	136	157	112	154	142	125	151	140
5	IHQ-0922	111	110	110	132	141	99	153	142	112	130	130
6	MMHQPM-10-11-15	125	107	116	145	153	108	153	142	124	150	139
7	MMHQPM-16-1213	123	110	117	147	153	109	152	142	124	150	139
	Location Mean	123	110	116	143	153	108	153	142	122	147	139
	CV (%)	2	3	2	5	1	2	2	1	2	2	2
	F (Prob)	0	1	0	0	0	0	1	1	0	0	0
	CD (5%)	4	6	3	13	2	4	4	2	3	4	.
	CD (1%)	5	9	4	18	3	6	6	3	5	6	.

Table No.6: (Contd.)

Days to 75% Dry Husk

S. No.	Entry Name	NWPZ (ZONE-II)					PZ (ZONE-IV)								All India	
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	RAHU	VAGA	ZONE		
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Rank
1	BIO9637 (FILLER)	133	126	126	146	133	96	109	113	117	110	126	96	110	.	.
2	HQPM1	130	126	126	151	133	96	109	113	115	110	126	94	109	126	6
3	HQPM4	135	126	124	150	134	96	110	113	114	110	121	95	108	125	4
4	HQPM7	132	124	124	149	132	95	109	113	113	109	126	94	108	125	3
5	IHQ-0922	136	123	111	138	127	88	106	101	101	93	112	86	98	116	1
6	MMHQPM-10-11-15	137	125	122	148	133	94	108	113	113	107	116	92	106	124	2
7	MMHQPM-16-1213	136	127	124	150	134	96	108	113	114	109	126	96	109	125	5
	Location Mean	134	125	122	147	132	95	108	111	113	107	122	93	107	124	.
	CV (%)	4	1	1	1	2	1	2	1	2	1	5	1	2.56	2.38	.
	F (Prob)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	.
	CD (5%)	9	1	2	4	2	2	3	3	3	1	11	2	1.68	.	.
	CD (1%)	13	2	3	5	3	2	5	4	4	2	16	3	2.22	.	.

Table No.6: QPM-I-II-III

Plant Height

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BIO9637 (FILLER)	172	198	185	167	182	181	188	238	.	200	.
2	HQPM1	215	204	210	168	195	180	190	266	212	200	201
3	HQPM4	217	211	214	161	188	181	182	254	222	198	198
4	HQPM7	222	214	218	167	201	181	193	257	218	198	202
5	IHQ-0922	162	196	179	116	160	176	183	259	174	139	173
6	MMHQPM-10-11-15	212	207	209	157	189	181	171	258	209	213	197
7	MMHQPM-16-1213	225	208	216	149	210	176	196	252	237	229	207
	Location Mean	203	205	204	155	189	179	186	255	212	197	196
	CV (%)	8	7	7	11	9	2	11	4	5	5	7
	F (Prob)	0	1	0	0	0	0	1	0	0	0	0
	CD (5%)	28	27	18	31	32	7	36	19	18	16	.
	CD (1%)	40	37	24	44	44	10	51	26	26	23	.

Table No.6: (Contd.)

Plant Height

S. No.	Entry Name	NWPZ (ZONE-II)					PZ (ZONE-IV)								
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BIO9637 (FILLER)	177	190	147	225	185	185	147	194	167	236	252	195	196	.
2	HQPM1	182	196	172	223	193	182	172	185	157	232	263	188	197	199
3	HQPM4	192	190	150	220	188	196	171	202	190	249	243	210	209	201
4	HQPM7	176	192	173	216	189	191	167	198	170	243	239	189	199	200
5	IHQ-0922	190	165	127	155	159	141	135	149	117	207	219	153	160	166
6	MMHQPM-10-11-15	192	175	152	202	180	171	140	195	167	253	219	184	190	192
7	MMHQPM-16-1213	191	203	170	215	195	184	183	222	173	244	261	212	211	207
	Location Mean	186	187	156	208	184	178	159	192	163	238	242	190	195	194
	CV (%)	6	7	12	7	8	5	17	5	8	4	10	5	8.42	7.81
	F (Prob)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	CD (5%)	21	24	32	27	12	15	49	16	23	16	45	16	10.05	.
	CD (1%)	29	34	45	37	16	21	69	23	32	22	63	23	13.32	.

Table No.6: QPM-I-II-III

Ear Height

S. No.	Entry Name	CWZ (ZONE-V)			NEPZ (ZONE-III)							
		BANS	GODH	ZONE	VARA	BAHA	BHUB	DHOL	NADI	RANC	SABO	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BIO9637 (FILLER)	105	111	108	85	70	86	95	100	.	103	.
2	HQPM1	111	97	104	86	84	81	96	108	106	99	94
3	HQPM4	125	112	118	90	82	85	88	104	122	99	96
4	HQPM7	121	111	116	90	85	82	107	106	118	102	99
5	IHQ-0922	67	99	83	57	76	85	94	100	92	62	81
6	MMHQPM-10-11-15	109	115	112	82	98	84	99	104	108	108	98
7	MMHQPM-16-1213	130	111	121	100	109	77	100	105	133	131	108
	Location Mean	110	108	109	84	86	83	97	104	113	100	95
	CV (%)	13	8	11	6	13	6	10	5	6	11	9
	F (Prob)	0	0	0	0	0	1	0	0	0	0	0
	CD (5%)	26	16	14	9	20	9	17	9	12	20	.
	CD (1%)	36	22	19	12	27	13	24	12	18	29	.

Table No.6: (Contd.)

Ear Height

S. No.	Entry Name	NWPZ (ZONE-II)					PZ (ZONE-IV)								
		KANP	KARN	LUDH	PANT	ZONE	COIM	DHAR	KARI	KOLH	MAND	RAHU	VAGA	ZONE	All India
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BIO9637 (FILLER)	73	105	72	94	86	94	71	91	92	122	153	89	106.8	.
2	HQPM1	74	108	85	85	88	88	85	82	77	116	155	92	101.5	96
3	HQPM4	84	107	75	95	90	110	89	102	103	129	146	104	115.68	103
4	HQPM7	75	106	78	93	88	102	85	96	90	120	140	92	106.72	101
5	IHQ-0922	88	77	63	61	72	70	64	66	48	107	127	73	81.85	80
6	MMHQPM-10-11-15	85	83	82	81	83	84	74	93	98	122	136	88	103.48	98
7	MMHQPM-16-1213	78	121	82	97	95	92	97	113	93	129	164	102	115.74	109
	Location Mean	79	101	77	87	86	91	81	92	86	121	146	91	104.54	98
	CV (%)	16	9	15	8	12	10	21	12	12	4	14	8	11.23	10.6
	F (Prob)	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	CD (5%)	23	17	21	12	9	17	31	20	18	8	37	13	7.8	.
	CD (1%)	32	24	30	17	11	24	43	27	25	11	52	19	10.35	.

Table No.6: QPM-I-II-III

Number of Cobs

S. No.	Entry Name	CWZ (ZONE-V)		NEPZ (ZONE-III)										
		GODH	ZONE	VARA	BAHA	DHOL	NADI	RANC	SABO	ZONE	KARN	LUDH	PANT	ZONE
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BIO9637 (FILLER)	68	68	27	58	63	28	.	9	.	93	33	64	42
2	HQPM1	68	68	59	60	70	40	50	29	54	90	50	41	47
3	HQPM4	65	65	57	60	61	34	44	26	50	94	38	20	45
4	HQPM7	68	68	66	60	68	37	53	27	55	92	42	31	45
5	IHQ-0922	69	69	46	58	67	27	69	28	53	92	52	57	48
6	MMHQPM-10-11-15	69	69	54	58	69	28	29	18	45	91	34	15	42
7	MMHQPM-16-1213	66	66	63	61	64	36	33	21	48	94	38	25	44
	Location Mean	68	68	53	59	66	33	46	22	50	92	41	36	45
	CV (%)	6	6	11	3	9	27	16	14	10	3	13	27	8
	F (Prob)	1	1	0	0	0	0	0	0	0	1	0	0	0
	CD (5%)	7	7	10	4	10	16	13	5	.	6	9	17	3
	CD (1%)	9	9	14	5	14	22	19	8	.	8	13	24	4

Table No.6: (Contd.)

Number of Cobs

S. No.	Entry Name	PZ (ZONE-IV)								All India
		COIM	DHAR	KARI	KOLH	MAND	RAHU	VAGA	ZONE	
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	BIO9637 (FILLER)	28	13	67	75	65	64	30	55	.
2	HQPM1	60	34	72	77	63	77	62	68	59
3	HQPM4	58	26	71	77	67	70	61	68	57
4	HQPM7	60	33	72	78	65	72	61	68	59
5	IHQ-0922	59	34	71	77	63	70	59	67	59
6	MMHQPM-10-11-15	59	26	72	77	64	64	61	66	55
7	MMHQPM-16-1213	56	33	73	76	70	77	61	69	57
	Location Mean	54	28	71	77	65	71	56	66	56
	CV (%)	4	34	3	3	4	8	3	5	7
	F (Prob)	0	0	0	1	0	0	0	0	0
	CD (5%)	4	17	4	4	5	10	3	2	.
	CD (1%)	5	24	6	5	7	15	4	3	.

Experiment ID:415

1

NIVT Normal maize

Treatment Details with Random Coding

Sr.No.	VARIETIES	Replication1	Replication2	Replication3
1	PM17208L	1035	1063	1115
2	Bio 302	1014	1062	1102
3	DAS-MH-906	1025	1051	1104
4	ADV 7164	1020	1077	1113
5	MFH17-32	1011	1056	1105
6	IMHSB-17R-22	1013	1082	1122
7	MFH17-33	1021	1057	1117
8	ADV 7043	1023	1066	1124
9	GK3214	1016	1079	1129
10	PM17204L	1004	1067	1132
11	MFH17-31	1001	1054	1123
12	Kh-2597	1027	1072	1107
13	GK3212	1012	1075	1135
14	DAS-MH-905	1018	1081	1121
15	DAS-MH-907	1007	1076	1101
16	MM9333	1024	1080	1134
17	IMHSB-17R-23	1028	1068	1114
18	Rasi 4118	1017	1060	1126
19	DKC9197 (IS8638)	1029	1078	1128
20	IMHSB-17R-18	1026	1064	1106
21	PM17203L	1010	1070	1118
22	KH-2595	1033	1084	1112
23	REH2016-3	1005	1069	1127
24	IMHSB-17R-13	1002	1055	1125
25	Rasi 3486(W)	1003	1083	1109
26	MM2034	1030	1073	1103
27	PM17206L	1009	1061	1120
28	PM17201L	1019	1074	1111
29	PM17205L	1022	1065	1108
30	DKC9195 (IS8508)	1032	1059	1133
31	PM17202L	1006	1058	1116
32	IMHSB-17R-21	1008	1071	1130
33	KMH25K45(C)	1034	1053	1131
34	P3522 (C)	1015	1052	1119
35	NMH713(C)	1031	1085	1110

Experiment ID:416

1

NIVT Normal maize

Treatment Details with Random Coding

Sr.No.	VARIETIES	Replication1	Replication2	Replication3
1	IMHSB-17R-6	2007	2076	2129
2	IMHSB-17R-4	2026	2055	2123
3	DH-296	2042	2063	2137
4	IMHSB-17R-15	2040	2090	2117
5	IMHSB-17R-7	2015	2060	2114
6	BRM 12-7	2029	2092	2110
7	IMHSB-17R-11	2009	2071	2142
8	CMH 9999	2032	2074	2104
9	AH-8181	2004	2069	2130
10	AH-8070	2021	2058	2141
11	IMHSB-17R-10	2022	2084	2103
12	MMH17-22	2016	2091	2139
13	IMHSB-17R-1	2023	2088	2124
14	IMHSB-17R-19	2034	2064	2113
15	MEH17-11	2012	2072	2115
16	IMHSB-17R-16	2003	2059	2108
17	CMH1818	2036	2081	2111
18	IMHSB-17R-3	2035	2075	2132
19	PM17207M	2017	2052	2116
20	IMHSB-17R-2	2030	2083	2131
21	BAUMH 11-16-1	2014	2054	2102
22	REH2016-1	2039	2065	2122
23	IH-1208	2001	2073	2105
24	REH2016-2	2008	2082	2127
25	AH-8071R	2028	2079	2109
26	IH-0966	2024	2057	2128
27	IMHSB-17R-12	2011	2068	2140
28	DH-291	2025	2056	2106
29	BLH-124	2005	2087	2118
30	IMHSB-17R-14	2020	2067	2133
31	IMHSB-17R-17	2038	2077	2134
32	MMH17-21	2031	2089	2112

33	IMHSB-17R-20	2027	2070	2126
34	IMHSB-17R-5	2033	2080	2101
35	IMHSB-17R-9	2041	2061	2107
36	BLH-111	2006	2085	2120
37	IMHSB-17R-8	2019	2053	2135
38	BLH-135	2002	2086	2138
39	Seed Tech 2324(Filler)	2037	2066	2121
40	Bisco-X1 (C)	2010	2062	2125
41	BIO9544 (C)	2013	2051	2119
42	DHM117(C)	2018	2078	2136

1

NIVT Normal maize

Location: Baharaich_UP

Replication 1	
Block 1	
Exp. Unit	**Treatment**
1	2022
2	2025
3	2035
4	2039
5	2042
6	2038
7	2002
Block 2	
Exp. Unit	**Treatment**
1	2026
2	2021
3	2036
4	2019
5	2006
6	2011
7	2014
Block 3	
Exp. Unit	**Treatment**
1	2031
2	2023
3	2037
4	2016
5	2040
6	2001
7	2005
Block 4	
Exp. Unit	**Treatment**
1	2018
2	2041

Experiment ID:419

1

AVT-I Normal maize

Treatment Details with Random Coding

Sr.No.	VARIETIES	Replication1	Replication2	Replication3
1	PM16206L	4021	4065	4117
2	GK3208	4027	4057	4126
3	BLH-113	4020	4059	4102
4	DKC 9188	4030	4062	4108
5	PM16204L	4008	4063	4113
6	Bio305	4013	4055	4116
7	ADV7037	4003	4079	4105
8	DKC 9181	4024	4053	4125
9	HT 16047	4014	4058	4128
10	PM16207L	4001	4054	4112
11	PM16202L	4025	4080	4122
12	Rasi 1107	4009	4056	4103
13	PM16201L	4017	4067	4119
14	VNR 32994	4005	4070	4124
15	PM16205L	4029	4072	4129
16	Rasi 2015 (P2)	4004	4076	4109
17	BLH-116	4010	4068	4115
18	MM2033	4007	4073	4121
19	CMH-2829	4006	4071	4104
20	DAS-MH-904	4026	4066	4107
21	PM16203L	4022	4075	4101
22	ADV7139	4023	4074	4120
23	Super3366	4019	4061	4114
24	DAS-MH-903	4011	4060	4130
25	JH273	4012	4077	4111
26	HT 16052	4002	4078	4110
27	P3522 (C)	4015	4051	4118
28	Seedtech 2324 (C)	4018	4069	4127
29	Buland (C)	4016	4064	4106
30	Bio 9681 (C)	4028	4052	4123

1

AVT-I Normal maize

Location: Baharaich_UP

Replication 1	
Block 1	
Exp. Unit	Treatment
1	4013
2	4010
3	4029

Experiment ID:420

1

AVT-I Normal maize

Treatment Details with Random Coding

Sr.No.	VARIETIES	Replication1	Replication2	Replication3
1	100K-18	5008	5053	5108
2	IMHBG-16R-6	5006	5059	5106
3	VaMH 12013	5003	5056	5109
4	100K-16	5005	5055	5102
5	DKC 8185	5002	5057	5104
6	DHM 117 (C)	5009	5058	5103
7	Bio 9544(C)	5007	5052	5107
8	Bio 9637 (C)	5004	5054	5105

Experiment ID:421

1

AVT-II Normal maize

Treatment Details with Random Coding

Sr.No.	VARIETIES	Replication1	Replication2	Replication3
1	BLH-109	8007	8053	8103
2	DKC 8171	8002	8052	8102
3	IM8013	8003	8057	8104
4	DHM 117 (C)	8006	8054	8105
5	Bio 9544(C)	8005	8055	8107
6	Bio 9637 (C)	8004	8056	8106

Experiment ID:422

1

QPM

Treatment Details with Random Coding

Sr.No.	VARIETIES	Replication1	Replication2	Replication3
1	MMHQPM-16-1213	10002	10052	10105
2	MMHQPM-10-11-15	10007	10055	10108
3	IHQ-0922	10003	10056	10104
4	BIO9637 (FILLER)	10004	10057	10102
5	HQPM1	10006	10053	10106
6	HQPM4	10008	10054	10107
7	HQPM7	10005	10058	10103

AGRONOMY

AICRP Maize Agronomy report Rabi 2017-18

Summary

The major agronomic research areas during rabi 2017-18 were nutrient application and planting density optimization of pre-released maize hybrids, site specific nutrient management (SSNM) for maize hybrids and tillage systems, planting density and nutrient management optimization for released maize hybrids and ecological intensification.

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

A total of **04** pre-release late and medium maturity hybrids of different maturity groups under AHT-2 were evaluated with **03** national checks under two densities (Normal and High) and two nutrient levels (N:P_2O_5:K_2O kg/ha) i.e. with 200:65:80, 250:80:100 nutrient levels. The late maturing hybrids responded to high density at NWPZ (Ludhiana, Karnal. Amongst nutrient levels different pre- released genotypes responded to high dose (250:80:100) at Ludhiana. In genotypes, it was found that IM-8013 resulted significantly higher yields over best check (Bio 9544) at Ludhiana and Karnal, respectively.

In case of pre-release *medium* maturity genotypes, it was found that these genotypes responded to high density at Kalyani (NEPZ). Amongst nutrient levels pre-released genotypes responded to high fertility level (250:80:100) at Kalyani (NEPZ). With regards to genotypes, it was found that only BLH 109 was significantly superior over best checks at Kalyani (NEPZ).

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

The experiments were conducted at two locations to find out effective SSNM and tillage practices for yield maximization of yield in intensified cropping system. Planting of wheat under conventional tillage resulted significantly higher yields over zero tillage and Permanent beds at Pantnagar. However, permanent bed resulted significantly higher yield over zero tillage and conventional tillage at Dholi. Amongst nutrient management practices, SSNM resulted in significantly higher yield at both locations of Pantnagar and Dholi.

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

For rice-maize cropping system experiment was conducted at three locations viz, Dholi, Kalyani and Hyderabad. In rabi maize significantly higher grain yield was obtained in Permanent beds over conventional as well as zero tillage at Dholi, however at Kalyani and Hyderabad significantly higher yield was obtained conventional tillage over zero tillage. Amongst nutrient management practices SSNM resulted significantly higher yield over RDF and FFP at Dholi and Kalyani, but at Hyderabad significantly higher yield was obtained with RDF which remained at par with FFP.

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

This experiment was conducted to maximize the yield of popular hybrids through planting density and nutrient management optimization at seven locations. It was found that popular hybrids responded to high density at Kalyani and Coimbatore centre by 9.1, and 7.7% higher yield over normal density, respectively. While response to normal planting density was found at Bahraich, Dholi and Banswara. Amongst various nutrient management practices SSNM resulted in significantly higher yield at Bahraich, Vagarai and Banswara while STCR was

found significantly superior at Kalyani, and found at par with SSNM at Banswara. However RDF proved better at Coimbatore, and found at par with SSNM at Vagarai centre.

Weed management in maize systems

For rabi maize, herbicides were tested at two centres viz., Dholi and Banswara. At both the locations rabi maize yield were significantly higher with the Atrazine followed by post-emergence application of Tembotrione (Laudis) 120 ml a.i./ha PoE at 25 DAS.

Ecological intensification for climate resilient maize based cropping systems

This experiment was initiated in kharif 2017 with the objective to develop the ecological intensification practice that could improve the current farmer practice in the identified cropping system while reducing the climatic risk. The results of rabi crop revealed that by adoption of ecological intensification yield was significantly increased at all locations in the range of 1.0 % (Karnal) to as high as 55.5% (Banswara). Out of 9 locations at 6 locations (Bajaura, Srinagar, Karnal, Ludhiana, Kalyani, and Banswara) nutrient management caused significant and maximum yield reduction. At 1 locations (Vagarai) water management played most important role imparting maximum losses in maize yield. At two locations, (Coimbatore and Hyderabad) weed played most important role for yield improvement. The initial result indicates that there is need of location specific component technology targeting at farmers field in order to improve resilience in maize systems.

A-1

Table 1: Performance of pre release late maturity genotypes in *Rabi* under varying planting density and nutrients levels in NWPZ.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)		Stover yield (kg/ha)		Plants ('000/ha)		Cobs ('000/ha)
			Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Ludhiana	Ludhiana
60x20 cm (83,000)	200:65:80	DKC 8171	10475	8188	22969	14576	82.0	80.6	72.9
		IM8013	11440	9403	16585	16549	82.7	83.3	81.3
		DHM 117 (C)	2228	4049	4443	7125	81.7	45.8	44.4
		Bio 9544(C)	10260	7188	20888	12653	81.3	81.3	75.7
		Bio 9637 (C)	9147	8236	17687	14493	82.3	82.6	77.8
	250:80:100	DKC 8171	11260	8368	25541	14729	81.7	81.3	76.4
		IM8013	12213	9451	21980	16819	82.7	83.3	79.9
		DHM 117 (C)	2342	4049	5180	7208	82.3	50.0	47.2
		Bio 9544(C)	11023	9556	23035	17007	82.3	81.3	77.8
		Bio 9637 (C)	9552	8688	20748	15465	82.3	81.3	78.5
50x20 cm (1,00,000)	200:65:80	DKC 8171	11705	10444	20095	18903	98.0	101.4	96.5
		IM8013	12868	10278	18081	18868	98.0	104.2	100.7
		DHM 117 (C)	2468	4500	4368	8146	98.3	57.6	54.2
		Bio 9544(C)	11685	9347	20127	16917	98.0	103.5	100.0
		Bio 9637 (C)	9784	8785	14761	15896	99.0	100.0	96.5
	250:80:100	DKC 8171	12278	11271	24859	20743	98.7	102.8	98.6
		IM8013	13866	10424	21915	18917	97.7	104.2	99.3
		DHM 117 (C)	2407	4611	4770	8479	98.3	52.8	47.9
		Bio 9544(C)	12174	9625	24687	17708	98.0	104.9	98.6
		Bio 9637 (C)	10499	8833	16945	16257	98.3	102.1	97.2
Mean of location			9483.6	8264.6	17483.1	14872.9	90.2	84.2	80.1
60x20 cm (83,000)			8994	7717	17906	13663	82.1	75.1	71.2
50x20 cm (1,00,000)			9973	8812	17061	16083	98.2	93.3	89.0
CD at 5%			105.9	1060.2	NS	1851.5	0.25	7.4	5.3
CV (%)			1.01	11.5	7.8	11.2	0.25	7.9	5.9
200:65:80			9206	8041.7	16000	14412.5	90.1	84.0	80.0
250:80:100			9761	8487.5	18966	15333.3	90.2	84.4	80.1
CD at 5%			310.6	NS	2466.2	NS	NS	NS	NS
CV (%)			4.6	9.5	19.7	13.9	1.75	3.1	2.7
DKC 8171			11430	9568	23366	17238	90.1	91.5	86.1
IM8013			12597	9889	19640	17788	90.3	93.8	90.3
DHM 117 (C)			2361	4302	4690	7740	90.2	51.6	48.4
Bio 9544(C)			11285	8929	22184	16071	89.9	92.7	88.0
Bio 9637 (C)			9745	8635	17535	15528	90.5	91.5	87.5
CD at 5%			339.7	956.8	3159.6	1660.0	NS	3.0	3.2
CV (%)			4.3	13.9	21.7	13.4	1.08	4.2	4.8

A-2

Hybrids	Density	Nutrient management	Plant height (cm)		Days to 50% tasseling		Days to 50% silking		Days to maturity
			Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Ludhiana	Karnal
60x20 cm (83,000)	200:65:80	DKC 8171	220.0	211.7	90.7	81.7	93.3	85.3	135.7
		IM8013	201.7	195.0	84.7	77.7	87.7	79.0	129.0
		DHM 117 (C)	201.7	193.3	91.7	84.7	94.7	87.0	137.0
		Bio 9544(C)	188.3	173.3	87.0	81.3	91.0	83.3	130.7
		Bio 9637 (C)	223.3	213.3	92.0	81.3	95.0	83.3	130.3
	250:80:100	DKC 8171	250.0	218.3	90.7	78.3	93.7	80.0	136.0
		IM8013	210.0	198.3	84.7	76.7	87.7	78.3	129.7
		DHM 117 (C)	210.0	220.0	92.3	82.7	95.3	84.7	136.0
		Bio 9544(C)	201.7	185.0	86.7	78.0	90.7	80.3	131.7
		Bio 9637 (C)	235.0	215.3	92.0	80.7	95.0	82.7	131.3
50x20 cm (1,00,000)	200:65:80	DKC 8171	251.7	213.7	89.0	82.0	92.0	84.0	135.3
		IM8013	220.0	205.3	85.3	78.0	88.3	80.3	130.3
		DHM 117 (C)	216.7	196.7	90.3	85.0	93.3	86.7	136.7
		Bio 9544(C)	200.0	198.7	91.0	81.7	95.0	84.0	130.7
		Bio 9637 (C)	235.0	216.0	91.7	83.3	94.7	86.3	131.0
	250:80:100	DKC 8171	266.7	223.7	89.3	79.3	92.3	81.3	136.7
		IM8013	230.0	208.7	85.0	79.3	88.0	81.3	131.0
		DHM 117 (C)	220.0	223.7	90.3	84.0	93.3	86.7	135.7
		Bio 9544(C)	207.3	217.3	90.3	80.7	94.3	83.0	131.3
		Bio 9637 (C)	238.7	217.3	92.3	82.0	95.3	84.0	132.3
Mean of location			221.4	207.2	89.4	80.9	92.5	83.1	132.9
60x20 cm (83,000)			214.2	202.4	89.2	80.3	92.4	82.4	132.7
50x20 cm (1,00,000)			228.6	212.1	89.5	81.5	92.7	83.8	133.1
CD at 5%			2.25	NS	NS	0.29	NS	1.03	NS
CV (%)			0.92	11.2	2.01	0.32	1.81	1.12	0.39
200:65:80			215.8	201.7	89.3	81.7	92.5	83.9	132.7
250:80:100			226.9	212.8	89.4	80.2	92.6	82.2	133.2
CD at 5%			5.39	8.2	NS	0.52	NS	0.23	0.45
CV (%)			3.40	5.5	0.52	0.90	0.50	0.38	0.48
DKC 8171			247.1	216.8	89.9	80.3	92.8	82.7	135.9
IM8013			215.4	201.8	84.9	77.9	87.9	79.8	130.0
DHM 117 (C)			212.1	208.4	91.2	84.1	94.2	86.3	136.3
Bio 9544(C)			199.3	193.6	88.8	80.4	92.8	82.7	131.1
Bio 9637 (C)			233.0	215.5	92.0	81.8	95.0	84.1	131.3
CD at 5%			4.56	16.2	0.78	1.27	0.78	1.26	0.73
CV (%)			2.48	9.4	1.05	1.89	1.02	1.83	0.66

A-3

Hybrids	Density	Nutrient management	100-seed weight (g)	Shelling (%)	Net return (Rs./ha)		B:C ratio	
			Karnal	Karnal	Karnal	Ludhiana	Karnal	Ludhiana
60x20 cm (83,000)	200:65:80	DKC 8171	29.1	83.3	68716	70525	1.91	1.30
		IM8013	31.0	83.0	81635	88891	2.08	1.64
		DHM 117 (C)	20.6	83.2	-41804	7325	0.44	0.13
		Bio 9544(C)	34.1	84.1	65828	55143	1.88	1.01
		Bio 9637 (C)	29.1	82.3	50917	71118	1.68	1.31
	250:80:100	DKC 8171	30.3	83.6	77247	71224	2.00	1.27
		IM8013	33.1	83.6	90011	87897	2.16	1.56
		DHM 117 (C)	23.4	83.5	-42260	5494	0.45	0.10
		Bio 9544(C)	35.2	84.6	74069	89486	1.96	1.59
		Bio 9637 (C)	31.3	82.8	54358	76247	1.71	1.36
50x20 cm (1,00,000)	200:65:80	DKC 8171	27.8	82.4	85188	104316	2.13	1.89
		IM8013	29.8	82.1	100775	102007	2.34	1.85
		DHM 117 (C)	20.6	82.3	-38578	13491	0.48	0.24
		Bio 9544(C)	31.0	83.2	84922	87552	2.13	1.58
		Bio 9637 (C)	27.5	82.3	59449	78958	1.79	1.43
	250:80:100	DKC 8171	28.7	82.8	90894	115343	2.17	2.02
		IM8013	30.3	82.7	112171	102134	2.45	1.79
		DHM 117 (C)	21.1	82.4	-41385	13410	0.46	0.23
		Bio 9544(C)	33.9	84.1	89500	90152	2.16	1.58
		Bio 9637 (C)	28.3	83.0	67050	78035	1.87	1.37
Mean of location			28.8	83.1	54435.2	70437.4	1.71	1.26
60x20 cm (83,000)			29.7	83.4	47872	62335	1.63	1.13
50x20 cm (1,00,000)			27.9	82.7	60999	78540	1.80	1.40
CD at 5%			NS	0.63	1419.2	16137.3	0.02	NS
CV (%)			6.26	0.68	2.35	20.6	0.93	21.3
200:65:80			28.1	82.8	51705	67933	1.69	1.24
250:80:100			29.6	83.3	57166	72942	1.74	1.29
CD at 5%			0.49	NS	4162.4	NS	NS	NS
CV (%)			2.35	0.89	10.7	17.7	4.38	18.0
DKC 8171			29.0	83.0	80511	90352	2.05	1.62
IM8013			31.1	82.9	96148	95232	2.26	1.71
DHM 117 (C)			21.4	82.9	-41007	9930	0.46	0.18
Bio 9544(C)			33.6	84.0	78580	80583	2.03	1.44
Bio 9637 (C)			29.0	82.6	57944	76089	1.76	1.36
CD at 5%			0.86	0.51	4552.1	14481.3	0.06	0.26
CV (%)			3.58	0.74	10.06	24.7	4.18	24.8

Table 2: Performance of pre release medium maturity genotypes in *Rabi* under varying planting density and nutrients levels in NEPZ.

Density	Nutrient	Genotype	Grain yield (kg/ha)		Stover yield (kg/ha)	Plants ('000/ha)		Cobs ('000/ha)	
			Dholi	Kalyani	Kalyani	Dholi	Kalyani	Dholi	Kalyani
83000	200:65:80	BLH109	8238	8431	10493	66.9	80.7	51.9	80.1
		IM8013	6632	7225	9197	70.5	76.0	60.9	75.8
		DHM 117 (C)	6633	6536	8538	52.8	73.3	42.3	73.0
		Bio 9544(C)	8862	6164	8129	85.8	72.3	70.8	72.1
		Bio 9637 (C)	9470	6891	8889	86.1	79.2	76.2	79.0
	250:80:100	BLH109	9927	9452	11366	78.0	82.2	65.7	81.8
		IM8013	7409	8423	10343	79.2	76.7	75.6	76.5
		DHM 117 (C)	6836	7553	9409	72.6	74.5	57.9	74.3
		Bio 9544(C)	9976	7116	9356	87.0	73.7	79.8	73.3
		Bio 9637 (C)	9804	7882	9751	87.9	82.3	75.3	82.0
100000	200:65:80	BLH109	9401	9710	11555	89.4	90.5	75.0	90.3
		IM8013	6568	8665	10552	88.2	89.7	81.0	89.6
		DHM 117 (C)	6877	8037	9825	78.3	87.7	63.9	87.3
		Bio 9544(C)	9442	7615	9504	87.0	87.1	77.7	86.9
		Bio 9637 (C)	10129	8616	10419	88.5	89.0	74.7	88.8
	250:80:100	BLH109	8354	11368	13310	78.3	94.7	61.2	94.5
		IM8013	6138	9897	11752	79.5	94.2	66.3	93.9
		DHM 117 (C)	6007	8857	10722	58.5	93.5	48.3	93.2
		Bio 9544(C)	9594	8311	10081	85.8	90.3	68.7	90.1
		Bio 9637 (C)	9116	8911	10983	86.7	93.3	75.6	93.2
Mean of location			8270.6	8283.1	10208.7	79.4	84.0	67.4	83.8
60x20 cm (83,000)			8379	7567	9547	76.7	77.1	65.6	76.8
50x20 cm (1,00,000)			8163	8999	10870	82.0	91.0	69.2	90.8
CD at 5%			NS	1208.9	1273.5	NS	4.0	NS	3.7
CV (%)			26.0	13.1	11.2	18.0	4.2	26.1	4.0
200:65:80			8225	7789	9710	79.4	82.5	67.4	82.3
250:85:100			8316	8777	10707	79.4	85.5	67.4	85.3
CD at 5%			NS	878.4	883.5	NS	1.1	NS	1.0
CV (%)			30.0	14.8	12.1	25.9	1.8	44.4	1.6
BLH109			8980	9740	11681	78.2	87.0	63.5	86.7
IM8013			6687	8552	10461	79.4	84.1	71.0	84.0
DHM 117 (C)			6589	7746	9624	65.6	82.2	53.1	82.0
Bio 9544(C)			9468	7302	9268	86.4	80.9	74.3	80.6
Bio 9637 (C)			9630	8075	10010	87.3	85.9	75.5	85.8
CD at 5%			836.8	768.0	768.1	6.4	1.7	7.6	1.7
CV (%)			12.2	11.1	9.0	9.8	2.5	13.5	2.5

A-5

Density	Nutrient	Genotype	Plant height (cm)		Days of 50% tasseling		Days of 50% silking		Days of maturity
			Dholi	Kalyani	Dholi	Kalyani	Dholi	Kalyani	Dholi
83000	200:65:80	BLH109	170.7	263.3	121.7	84.0	125.3	86.7	169.7
		IM8013	156.0	245.0	119.7	83.3	123.3	86.0	170.3
		DHM 117 (C)	167.5	248.3	123.7	84.3	127.0	87.7	169.0
		Bio 9544(C)	156.0	240.8	119.3	84.3	122.3	87.7	171.7
		Bio 9637 (C)	164.7	261.7	122.7	84.0	126.0	86.7	170.3
	250:80:100	BLH109	173.3	276.7	122.7	83.7	126.0	87.0	169.0
		IM8013	154.7	248.3	121.7	84.3	124.7	87.0	169.7
		DHM 117 (C)	172.3	245.8	123.7	83.7	126.0	86.7	168.7
		Bio 9544(C)	159.3	244.2	121.7	84.7	124.3	87.3	171.3
		Bio 9637 (C)	168.7	265.3	123.7	84.3	127.0	87.3	170.3
100000	200:65:80	BLH109	177.0	282.5	122.7	85.3	126.0	88.3	169.7
		IM8013	153.4	254.2	120.3	85.7	123.7	88.7	170.0
		DHM 117 (C)	170.7	246.7	123.0	86.0	125.7	89.0	168.0
		Bio 9544(C)	158.3	248.0	121.0	86.0	123.7	89.0	171.3
		Bio 9637 (C)	170.0	271.7	122.0	86.3	125.0	89.7	172.7
	250:80:100	BLH109	174.3	302.5	121.7	84.7	125.3	87.7	170.3
		IM8013	154.3	255.0	118.3	84.7	122.3	88.0	170.7
		DHM 117 (C)	165.7	249.5	123.0	84.7	126.7	88.0	168.3
		Bio 9544(C)	155.0	252.0	118.7	85.3	121.7	88.0	171.7
		Bio 9637 (C)	166.0	279.2	121.0	84.7	124.0	87.7	172.7
Mean of location			164.4	259.0	121.6	84.7	124.8	87.7	170.3
60x20 cm (83,000)			164.3	254.0	122.0	84.1	125.2	87.0	170.0
50x20 cm (1,00,000)			164.5	264.1	121.2	85.3	124.4	88.4	170.5
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			6.4	5.4	0.7	2.6	1.2	2.2	1.7
200:65:80			164.4	256.2	121.6	84.9	124.8	87.9	170.3
250:85:100			164.4	261.9	121.6	84.5	124.8	87.5	170.3
CD at 5%			NS	3.7	NS	NS	NS	NS	NS
CV (%)			4.9	2.0	3.2	0.9	2.8	0.9	1.3
BLH109			173.8	281.3	122.2	84.4	125.7	87.4	169.7
IM8013			154.6	250.6	120.0	84.5	123.5	87.4	170.2
DHM 117 (C)			169.0	247.6	123.3	84.7	126.3	87.8	168.5
Bio 9544(C)			157.2	246.3	120.2	85.1	123.0	88.0	171.5
Bio 9637 (C)			167.3	269.5	122.3	84.8	125.5	87.8	171.5
CD at 5%			3.6	11.5	1.3	NS	1.3	NS	1.0
CV (%)			2.6	5.3	1.3	1.2	1.3	1.5	0.7

A-6

Density	Nutrient	Genotype	Net returns (Rs./ha)		B:C Ratio		Moisture (%)	100-seed weight (g)
			Dholi	Kalyani	Dholi	Kalyani	Dholi	Kalyani
83000	200:65:80	BLH109	60267	64158	1.23	2.11	29.0	45.0
		IM8013	38980	47089	0.80	1.81	20.2	42.0
		DHM 117 (C)	38999	37507	0.80	1.65	26.0	38.3
		Bio 9544(C)	68527	32231	1.40	1.56	25.8	36.7
		Bio 9637 (C)	76582	42473	1.57	1.73	26.2	40.0
	250:80:100	BLH109	82639	76155	1.69	2.27	20.2	46.0
		IM8013	49277	61766	1.01	2.03	19.0	45.0
		DHM 117 (C)	41693	49458	0.85	1.82	20.0	42.3
		Bio 9544(C)	83297	44107	1.70	1.74	25.0	40.0
		Bio 9637 (C)	81015	54086	1.66	1.90	17.0	43.7
100000	200:65:80	BLH109	75672	81630	1.55	2.41	24.9	46.3
		IM8013	38132	67085	0.78	2.16	29.8	42.3
		DHM 117 (C)	42229	58090	0.86	2.00	24.6	40.0
		Bio 9544(C)	76211	52392	1.56	1.90	24.1	37.0
		Bio 9637 (C)	85323	66230	1.75	2.12	24.0	41.3
	250:80:100	BLH109	61805	103036	1.26	2.72	28.0	50.3
		IM8013	32438	82263	0.66	2.37	25.2	47.0
		DHM 117 (C)	30709	67725	0.63	2.13	22.6	43.3
		Bio 9544(C)	78226	59899	1.60	2.00	23.2	41.0
		Bio 9637 (C)	71891	68897	1.47	2.15	24.5	44.3
Mean of location			60695.7	60813.9	1.24	2.03	24.0	42.6
60x20 cm (83,000)			62128	50903	1.27	1.86	22.8	41.9
50x20 cm (1,00,000)			59264	70725	1.21	2.20	25.1	43.3
CD at 5%			NS	17039.0	NS	0.3		NS
CV (%)			46.9	25.2	46.9	12.7		9.5
200:65:80			60092	54889	1.23	1.94	25.5	40.9
250:85:100			61299	66739	1.25	2.11	22.5	44.3
CD at 5%			NS	NS	NS	NS		0.7
CV (%)			54.2	28.2	54.2	14.2		2.3
BLH109			70096	81245	1.43	2.38	25.5	46.9
IM8013			39707	64551	0.81	2.09	23.6	44.1
DHM 117 (C)			38408	53195	0.79	1.90	23.3	41.0
Bio 9544(C)			76565	47157	1.57	1.80	24.5	38.7
Bio 9637 (C)			78703	57922	1.61	1.98	22.9	42.3
CD at 5%			11088.2	10729.2	0.2	0.2		2.0
CV (%)			22.0	21.2	22.0	10.9		5.7

Table 3: Nutrient management in maize-wheat-green gram/cowpea cropping system under different tillage practices in Pantnagar.

Tillage practices	Nutrient management	Wheat grain yield (kg/ha)	Straw yield (kg/ha)	Tillers/m²	Plant height (cm)	1000-grain weight (g)	Net return (Rs. /ha)	B:C ratio
Zero tillage	FFP	3095	4619	228.3	75.6	41.7	22556	0.72
	SSNM	3905	5857	261.7	77.1	40.7	37081	1.21
	100% RDF	4048	6190	283.3	79.0	41.0	38402	1.21
Conventional tillage	FFP	4286	5857	316.7	85.5	42.0	41921	1.29
	SSNM	5331	7145	361.7	89.5	42.0	60535	1.89
	100% RDF	5236	6764	355.0	88.1	41.0	57726	1.74
Permanent beds	FFP	3336	5283	250.0	77.8	40.3	20729	0.56
	SSNM	4000	6048	318.3	79.2	40.0	32733	0.89
	100% RDF	4238	6238	310.0	80.4	40.7	35707	0.94
Location mean		4163.8	6000.3	298.3	81.4	41.0	38598.8	1.16
C.D.(5%) AiBj-AiBk		631.2	1084.5	76.2	5.3	3.2	10951.8	0.32
C.D.(5%) AiBk-AjBk		857.7	1050.7	73.1	7.2	3.3	14881.4	0.45
F(5%)		NS	NS	NS	NS	NS	NS	NS
Zero tillage		3683	5556	257.8	77.2	41.1	32680	1.05
Conventional till		4951	6589	344.4	87.7	41.7	53394	1.64
Permanent bed		3858	5856	292.8	79.2	40.3	29723	0.80
C.D. (5%) Ai-Aj		693.2	576.2	39.2	5.8	2.0	12027.3	0.37
C.V. (%) Error A		12.7	7.3	10.0	5.5	3.7	23.8	24.3
F (5%)		S	S	S	S	NS	S	S
FFP (116:64:32)		3572	5253	265.0	79.6	41.3	28402	0.86
SSNM (110:15:64)		4412	6350	313.9	82.0	40.9	43450	1.33
RDF (150:60:40)		4507	6398	316.1	82.5	40.9	43945	1.30
C.D. (5%) Bi-Bj		364.4	626.1	44.0	3.0	1.8	6323.0	0.18
C.V. (%) ErrorB		8.5	10.2	14.4	3.6	4.4	15.9	15.4
F (5%)		S	S	S	NS	NS	S	S

A-8

Tillage practices	Nutrient management	Nutrient uptake by wheat								
		N uptake (kg/ha)			P uptake (kg/ha)			K uptake (kg/ha)		
		Grain	Straw	Total	Grain	Straw	Total	Grain	Straw	Total
Zero tillage	FFP	40.9	14.2	55.2	7.7	5.6	13.2	12.6	56.4	69.1
	SSNM	52.2	17.5	69.6	8.8	7.2	16.0	16.3	70.1	86.3
	100% RDF	53.4	20.1	73.5	9.6	7.9	17.5	16.9	75.0	91.9
Conventional tillage	FFP	59.6	20.2	79.8	10.1	7.2	17.3	17.7	75.3	93.0
	SSNM	71.3	22.5	93.8	12.3	9.0	21.3	21.7	90.9	112.6
	100% RDF	72.5	22.7	95.2	12.0	8.9	20.9	21.7	83.7	105.4
Permanent beds	FFP	43.4	14.5	57.9	7.9	6.5	14.4	13.5	68.5	82.0
	SSNM	53.2	18.3	71.5	9.4	7.5	16.9	16.4	73.0	89.3
	100% RDF	58.7	19.9	78.6	9.4	7.8	17.3	17.4	78.0	95.4
Location mean		56.1	18.9	75.0	9.7	7.5	17.2	17.1	74.5	91.7
C.D.(5%) AiBj-AiBk		11.6	6.5	13.9	2.0	1.7	3.0	3.4	19.2	20.4
C.D.(5%) AiBk-AjBk		12.7	7.0	15.3	1.9	2.1	3.1	4.6	21.0	24.1
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS	NS
Zero tillage		48.8	17.3	66.1	8.7	6.9	15.6	15.3	67.2	82.4
Conventional till		67.8	21.8	89.6	11.5	8.4	19.8	20.4	83.3	103.7
Permanent bed		51.8	17.6	69.3	8.9	7.3	16.2	15.8	73.2	88.9
C.D. (5%) Ai-Aj		8.5	4.6	10.3	1.1	1.5	1.9	3.7	14.1	17.7
C.V. (%) Error A		11.6	18.8	10.5	8.4	15.4	8.4	16.3	14.5	14.7
F (5%)		S	NS	S	S	NS	S	S	NS	NS
FFP (116:64:32)		48.0	16.3	64.3	8.6	6.4	15.0	14.6	66.7	81.4
SSNM (110:15:64)		58.9	19.4	78.3	10.2	7.9	18.1	18.1	78.0	96.1
RDF (150:60:40)		61.5	20.9	82.4	10.3	8.2	18.6	18.7	78.9	97.6
C.D. (5%) Bi-Bj		6.7	3.7	8.0	1.1	1.0	1.7	2.0	11.1	11.8
C.V. (%) ErrorB		11.6	19.3	10.4	11.4	13.0	9.9	11.2	14.5	12.5
F (5%)		S	NS	S	S	S	S	S	NS	S

Table 4: Nutrient management in Maize- Wheat-Green gram cropping system under different tillage practices in Dholi.

Tillage practices	Nutrient management	Wheat Grain yield (kg/ha)	Effective tillers/m^2	Plant height (cm)	Days of flowering	Days of maturity	Spike length (cm)
Zero Tillage	RDF	4267	332.0	78.9	79.7	121.3	11.2
	SSNM	4480	334.3	77.5	80.7	122.0	10.7
	FFP	4409	325.0	77.5	81.3	121.7	7.8
Conventional Tillage	RDF	4450	277.0	78.9	81.0	121.7	11.5
	SSNM	4460	322.7	81.2	81.0	122.3	11.1
	FFP	4237	341.0	78.3	81.3	122.0	11.7
Permanent Bed	RDF	4257	309.0	79.3	80.3	121.7	10.1
	SSNM	4491	323.3	81.0	78.7	122.3	10.8
	FFP	4572	307.3	79.1	80.3	121.7	11.5
Location mean		4402.5	319.1	79.1	80.5	121.9	10.7
C.D.(5%) AiBj-AiBk		18.0	62.1	1.4	1.7	3.0	2.3
C.D.(5%) AiBk-AjBk		15.7	67.2	2.2	2.2	2.9	2.6
F(5%)		S	NS	S	NS	NS	NS
Zero tillage		4386	330.4	78.0	80.6	121.7	9.9
Conventional till		4382	313.6	79.5	81.1	122.0	11.4
Permanent bed		4440	313.2	79.8	79.8	121.9	10.8
C.D. (5%) Ai-Aj		5.5	44.8	1.9	1.8	1.6	1.8
C.V. (%) Error A		0.1	10.7	1.9	1.7	1.0	13.1
F (5%)		S	NS	NS	NS	NS	NS
RDF (120:60:40)		4325	306.0	79.0	80.3	121.6	10.9
SSNM (159:34.5:75)		4477	326.8	79.9	80.1	122.2	10.9
FFP (170:90:60)		4406	324.4	78.3	81.0	121.8	10.3
C.D. (5%) Bi-Bj		10.4	35.9	0.8	1.0	1.7	1.3
C.V. (%) ErrorB		0.2	10.9	1.0	1.2	1.4	11.9
F (5%)		S	NS	S	NS	NS	NS

A-10

Tillage practices	Nutrient management	Spikelet's/ spike	Grins/ spikes	1000 Grain weight (g)	Net return (Rs./ha)	B:C ratio	Moisture (%)
Zero Tillage	RDF	46.3	44.0	41.7	58463	0.86	11.0
	SSNM	45.3	43.0	40.5	72027	1.06	10.6
	FFP	46.7	45.0	42.0	64052	0.94	10.5
Conventional Tillage	RDF	47.0	45.0	42.1	57506	0.85	10.6
	SSNM	46.3	44.7	42.7	60025	0.88	10.2
	FFP	46.7	43.7	42.4	49061	0.72	10.2
Permanent Bed	RDF	43.0	40.3	39.0	60746	0.89	12.0
	SSNM	43.7	41.7	40.5	69243	1.02	10.0
	FFP	41.7	40.7	39.7	62444	0.92	10.0
Location mean		45.2	43.1	41.2	61507.6	0.91	10.6
C.D.(5%) AiBj-AiBk		2.8	3.6	1.7	10150.2	0.15	
C.D.(5%) AiBk-AjBk		11.1	9.8	2.4	9984.8	0.15	
F(5%)		NS	NS	NS	NS	NS	
Zero tillage		46.1	44.0	41.4	64847	0.96	10.7
Conventional till		46.7	44.4	42.4	55531	0.82	10.3
Permanent bed		42.8	40.9	39.7	64145	0.94	10.7
C.D. (5%) Ai-Aj		10.9	9.3	2.0	5671.5	0.08	
C.V. (%) Error A		18.4	16.5	3.7	7.0	7.0	
F (5%)		NS	NS	S	S	S	
RDF (120:60:40)		45.4	43.1	40.9	58905	0.87	11.2
SSNM (159:34.5:75)		45.1	43.1	41.2	67099	0.99	10.3
FFP (170:90:60)		45.0	43.1	41.4	58519	0.86	10.2
C.D. (5%) Bi-Bj		1.6	2.1	1.0	5860.2	0.09	
C.V. (%) ErrorB		3.5	4.7	2.3	9.3	9.3	
F (5%)		NS	NS	NS	S	S	

Table 5: Nutrient management in rice-maize cropping system under different tillage practices in Dholi.

Tillage practices	Nutrient management	Maize Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Days of 50% tasseling	Days of 50% silking	Days of maturity
Zero Tillage	RDF	8627	11056	92.2	93.1	130.0	133.3	174.0
	SSNM	9337	11846	91.4	92.2	128.0	130.7	173.0
	FFP	8018	10543	90.2	91.2	127.0	131.0	172.3
Conventional Tillage	RDF	8047	10365	90.2	90.8	130.7	134.0	173.7
	SSNM	8207	10819	90.2	90.4	130.3	133.3	173.3
	FFP	7884	10503	90.6	90.6	130.0	133.0	173.0
Permanent Bed	RDF	9265	12359	90.6	91.0	128.7	131.7	174.0
	SSNM	9653	13030	90.2	91.2	129.3	132.3	173.7
	FFP	8939	11648	91.0	91.0	130.7	133.7	173.0
Location mean		8664.0	11352.0	90.7	91.3	129.4	132.6	173.3
C.D.(5%) AiBj-AiBk		637.6	829.5	3.9	3.3	3.3	3.3	1.8
C.D.(5%) AiBk-AjBk		977.8	1283.8	3.7	3.2	4.0	3.8	2.7
F(5%)		NS	NS	NS	NS	NS	NS	NS
Zero tillage		8660	11148	91.3	92.2	128.3	131.7	173.1
Conventional till		8046	10562	90.3	90.6	130.3	133.4	173.3
Permanent bed		9286	12346	90.6	91.1	129.6	132.6	173.6
C.D. (5%) Ai-Aj		835.2	1100.4	1.9	1.6	2.9	2.7	2.2
C.V. (%) Error A		7.4	7.4	1.6	1.4	1.7	1.6	1.0
F (5%)		S	S	NS	NS	NS	NS	NS
RDF (120:60:40)		8646	11260	91.0	91.6	129.8	133.0	173.9
SSNM (159:34.5:75)		9065	11898	90.6	91.3	129.2	132.1	173.3
FFP(170:90:60)		8281	10898	90.6	90.9	129.2	132.6	172.8
C.D. (5%) Bi-Bj		368.1	478.9	2.3	1.9	1.9	1.9	1.0
C.V. (%) ErrorB		4.1	4.1	2.4	2.1	1.5	1.4	0.6
F (5%)		S	S	NS	NS	NS	NS	NS

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Tillage practices	Nutrient management	Plant height (cm)	Ear height (cm)	Cob Length (cm)	Cob Girth (cm)	Net Return (Rs./ha)	B:C Ratio	Moisture (%)
Zero Tillage	RDF	193.7	57.7	21.0	15.3	124896	1.92	21.0
	SSNM	197.3	61.3	17.3	14.3	131637	2.03	20.2
	FFP	191.0	56.7	20.3	16.0	122819	1.89	23.0
Conventional Tillage	RDF	194.0	60.3	17.0	16.3	121537	1.87	21.4
	SSNM	192.3	59.0	21.0	17.3	116002	1.78	23.2
	FFP	194.3	60.3	19.3	14.0	116722	1.80	24.0
Permanent Bed	RDF	190.0	59.0	20.0	15.7	131688	2.03	24.1
	SSNM	166.0	57.7	22.0	16.0	132493	2.04	25.0
	FFP	190.7	58.7	23.3	15.7	131702	2.03	22.3
Location mean		189.9	59.0	20.1	15.6	125499.5	1.93	22.7
C.D.(5%) AiBj-AiBk		24.9	6.9	1.3	3.8	12243.1	0.19	
C.D.(5%) AiBk-AjBk		27.5	7.9	1.4	3.3	15841.9	0.24	
F(5%)		NS	NS	S	NS	NS	NS	
Zero tillage		194.0	58.6	19.6	15.2	126451	1.95	21.4
Conventional till		193.6	59.9	19.1	15.9	118087	1.82	22.9
Permanent bed		182.2	58.4	21.8	15.8	131961	2.03	23.8
C.D. (5%) Ai-Aj		18.8	5.6	0.9	1.3	12437.7	0.19	
C.V. (%) Error A		7.6	7.3	3.4	6.5	7.6	7.6	
F (5%)		NS	NS	S	NS	NS	NS	
RDF (120:60:40)		192.6	59.0	19.3	15.8	126040	1.94	22.2
SSNM (159:34.5:75)		185.2	59.3	20.1	15.9	126710	1.95	22.8
FFP(170:90:60)		192.0	58.6	21.0	15.2	123748	1.90	23.1
C.D. (5%) Bi-Bj		14.4	4.0	0.7	2.2	7068.5	0.11	
C.V. (%) ErrorB		7.4	6.6	3.5	13.6	5.5	5.5	
F (5%)		NS	NS	S	NS	NS	NS	

Table 6: Nutrient management in rice-maize cropping system under different tillage practices in Kalyani.

Tillage practices	Nutrient management	Maize Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('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	7736	9774	84.4	267.8	88.3	91.3	37.3	55010	1.96
	SSNM	8736	10840	87.8	271.1	88.3	91.0	41.7	69635	2.22
	FFP	8111	10158	86.0	270.0	88.0	91.3	40.0	61388	2.09
Conventional till	RDF	8626	10753	88.6	275.6	88.3	91.3	42.7	67651	2.18
	SSNM	9624	12032	96.9	296.7	89.0	92.0	44.7	82681	2.45
	FFP	9008	10807	91.7	281.1	89.3	92.0	43.0	73460	2.31
Permanent bed	RDF	6982	9172	79.4	253.3	88.7	91.7	35.0	44761	1.78
	SSNM	8012	9848	84.0	265.6	90.0	92.7	37.4	58961	2.04
	FFP	7573	9245	81.4	257.8	90.3	93.0	36.0	53110	1.94
Location mean		8267.5	10292.0	86.7	271.0	88.9	91.8	39.7	62962.0	2.11
C.D.(5%) AiBj-AiBk		705.4	1139.3	3.5	23.7	1.6	1.8	2.9	10539.0	0.18
C.D.(5%) AiBk-AjBk		921.6	1134.7	3.5	26.1	2.3	2.1	5.6	13122.5	0.23
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS	NS
Zero tillage		8194	10257	86.0	269.6	88.2	91.2	39.7	62011	2.09
Conventional till		9086	11197	92.4	284.4	88.9	91.8	43.5	74597	2.31
Permanent bed		7522	9422	81.6	258.9	89.7	92.4	36.1	52277	1.92
C.D. (5%) Ai-Aj		728.0	661.4	2.0	17.7	1.9	1.6	5.1	10034.3	0.18
C.V. (%) Error A		6.7	4.9	1.8	5.0	1.6	1.3	9.8	12.2	6.4
F (5%)		S	S	S	S	NS	NS	S	S	S
RDF (120:60:60)		7781	9899	84.1	265.6	88.4	91.4	38.3	55808	1.97
SSNM (130:44:66)		8791	10907	89.6	277.8	89.1	91.9	41.2	70426	2.24
FFP (150:42:20)		8231	10070	86.4	269.6	89.2	92.1	39.7	62653	2.11
C.D. (5%) Bi-Bj		407.2	657.8	2.0	13.7	0.9	1.0	1.7	6084.7	0.11
C.V. (%) ErrorB		4.8	6.2	2.3	4.9	1.0	1.1	4.1	9.4	4.9
F (5%)		S	S	S	NS	NS	NS	S	S	S

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Tillage practices	Nutrient management	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row	Total uptake (kg/ha)		
						N	P	K
Zero tillage	RDF	17.3	15.6	14.9	37.8	186.0	35.8	136.0
	SSNM	18.1	15.9	15.6	39.6	224.6	42.8	148.4
	FFP	18.0	15.7	15.6	38.7	213.5	36.5	140.9
Conventional till	RDF	18.6	16.1	16.0	38.9	226.6	39.6	152.0
	SSNM	19.2	16.2	16.4	40.8	270.5	46.2	157.3
	FFP	18.9	16.2	16.0	39.9	250.6	40.8	156.9
Permanent bed	RDF	15.2	15.5	13.6	35.0	173.8	33.7	128.1
	SSNM	16.4	15.6	14.9	38.3	203.7	39.6	136.5
	FFP	16.1	15.5	14.7	36.4	176.6	34.9	129.3
Location mean		17.5	15.8	15.3	38.4	214.0	38.9	142.8
C.D.(5%) AiBj-AiBk		3.0	0.8	1.8	7.5	25.9	7.2	16.4
C.D.(5%) AiBk-AjBk		3.9	0.7	1.7	7.0	26.0	6.7	17.2
F(5%)		NS	NS	NS	NS	NS	NS	NS
Zero tillage		17.8	15.8	15.3	38.7	208.0	38.4	141.8
Conventional till		18.9	16.1	16.1	39.9	249.2	42.2	155.4
Permanent bed		15.9	15.5	14.4	36.6	184.7	36.1	131.3
C.D. (5%) Ai-Aj		3.0	0.3	0.9	3.3	15.4	3.3	11.0
C.V. (%) Error A		13.1	1.4	4.7	6.6	5.5	6.5	5.9
F (5%)		NS	S	S	NS	S	S	S
RDF (120:60:60)		17.0	15.7	14.8	37.2	195.5	36.4	138.7
SSNM (130:44:66)		17.9	15.9	15.6	39.5	232.9	42.9	147.4
FFP (150:42:20)		17.7	15.8	15.4	38.3	213.6	37.4	142.3
C.D. (5%) Bi-Bj		1.7	0.4	1.0	4.3	15.0	4.2	9.5
C.V. (%) ErrorB		9.7	2.8	6.4	11.0	6.8	10.4	6.4
F (5%)		NS	NS	NS	NS	S	S	NS

Table 7: Nutrient management in rice-maize cropping systems under different tillage practices in Hyderabad.

Tillage practices	Nutrient management	Maize grain yield (ka/ha)	Maize stover yield (kg/ha)	Rice grain yield (kg/ha)	Maize equivalent yield of Rice (ka/ha)	System productivity (ka/ha)	Plants ('000/ha)	Cobs ('000/ha)
Conventional tillage in both rice and maize (CT-CT)	100%RDF	7830	9107	6270	6820	14650	74.2	71.3
	SSNM	7330	8167	5927	6447	13777	70.5	68.7
	FFP	7510	8230	6257	6805	14315	73.1	69.2
	50%RDF	5633	6050	3967	4315	9948	60.7	59.0
Conventional tillage in rice and Zero-tillage in maize	100%RDF	8450	9480	6373	6932	15382	75.9	74.2
	SSNM	7610	8460	5867	6381	13991	71.4	70.1
	FFP	8223	8633	6067	6599	14822	72.5	70.0
	50%RDF	5720	6587	3997	4347	10067	61.5	60.4
Zero-tillage in both rice and maize	100%RDF	6787	7453	5580	6069	12856	67.4	65.2
	SSNM	6293	6767	5303	5769	12062	64.4	63.5
	FFP	6907	7455	5383	5856	12762	68.3	67.0
	50%RDF	4770	5307	3523	3832	8602	58.9	58.1
Location mean		6921.9	7641.3	5376.1	5847.7	12769.6	68.2	66.4
C.D.(5%) AiBj-AiBk		615.9	723.2	610.1	663.7	807.5	2.7	2.9
C.D.(5%) AiBk-AjBk		741.9	846.4	559.2	608.2	905.3	3.1	2.8
F(5%)		NS	NS	NS	NS	NS	NS	S
Conventional tillage in both rice and maize (CT-CT)		7076	7888	5605	6097	13173	69.6	67.1
Conventional tillage in rice and Zero-tillage in maize		7501	8290	5576	6065	13566	70.3	68.7
Zero-tillage in both rice and maize		6189	6745	4948	5381	11571	64.7	63.5
C.D. (5%) Ai-Aj		525.7	580.9	188.3	204.8	587.3	2.0	1.2
C.V. (%) Error A		6.7	6.7	3.1	3.1	4.1	2.6	1.7
F (5%)		S	S	S	S	S	S	S
100% RDF (240:80:80)		7689	8680	6074	6607	14296	72.5	70.2
SSNM (140:47:56)		7078	7798	5699	6199	13277	68.7	67.4
FFP (240:50:40)		7547	8106	5902	6420	13967	71.3	68.7
50% RDF (120:40:40)		5374	5981	3829	4165	9539	60.4	59.2
C.D. (5%) Bi-Bj		355.6	417.6	352.3	383.2	466.2	1.6	1.7
C.V. (%) ErrorB		5.2	5.5	6.6	6.6	3.7	2.3	2.6
F (5%)		S	S	S	S	S	S	S

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Tillage practices	Nutrient management	Plant height (cm)	Days to 50% silking	Cob length (cm)	Cob width (cm)	Grain rows/cob	Grains/ row	100 seed weight (g)
Conventional tillage in both rice and maize (CT-CT)	100%RDF	264.3	69.3	17.7	15.9	15.3	36.0	32.7
	SSNM	233.3	70.3	15.8	14.9	14.0	30.0	29.8
	FFP	250.3	69.7	16.9	15.6	14.7	32.7	31.7
	50%RDF	208.0	67.0	14.6	13.2	12.7	28.3	25.1
Conventional tillage in rice and Zero-tillage in maize	100%RDF	265.7	69.3	17.3	15.5	14.7	34.7	31.7
	SSNM	239.0	68.3	15.7	14.8	13.3	30.0	29.4
	FFP	250.0	69.3	16.7	15.2	14.0	33.0	31.4
	50%RDF	202.7	66.3	14.6	13.8	12.7	27.7	24.8
Zero-tillage in both rice and maize	100%RDF	222.3	67.7	16.1	15.8	13.3	29.0	28.5
	SSNM	200.0	67.7	15.2	14.9	12.7	27.3	24.6
	FFP	206.3	67.7	15.9	15.2	13.3	29.0	26.8
	50%RDF	190.0	66.3	14.1	13.0	12.0	25.3	23.1
Location mean		227.7	68.3	15.9	14.8	13.6	30.3	28.3
C.D.(5%) AiBj-AiBk		12.7	2.1	0.5	0.4	1.8	2.6	2.2
C.D.(5%) AiBk-AjBk		12.7	1.9	0.5	0.5	1.7	2.6	2.0
F(5%)		S	NS	NS	S	NS	NS	NS
Conventional tillage in both rice and maize (CT-CT)		239.0	69.1	16.3	14.9	14.2	31.8	29.8
Conventional tillage in rice and Zero-tillage in maize		239.3	68.3	16.1	14.8	13.7	31.3	29.3
Zero-tillage in both rice and maize		204.7	67.3	15.3	14.7	12.8	27.7	25.8
C.D. (5%) Ai-Aj		6.5	0.5	0.2	0.3	0.6	1.3	0.8
C.V. (%) Error A		2.5	0.7	1.3	1.9	3.9	3.8	2.6
F (5%)		S	S	S	NS	S	S	S
100% RDF (240:80:80)		250.8	68.8	17.0	15.7	14.4	33.2	31.0
SSNM (140:47:56)		224.1	68.8	15.6	14.8	13.3	29.1	27.9
FFP (240:50:40)		235.6	68.9	16.5	15.3	14.0	31.6	30.0
50% RDF (120:40:40)		200.2	66.6	14.4	13.3	12.4	27.1	24.3
C.D. (5%) Bi-Bj		7.3	1.2	0.3	0.3	1.0	1.5	1.2
C.V. (%) ErrorB		3.3	1.8	2.0	1.8	7.8	5.1	4.4
F (5%)		S	S	S	S	S	S	S

Table 8: 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)	Straw yield (kg/ha)	Tillers/m²	Plant height (cm)	1000-grain weight (g)	Net return (Rs./ha)	B:C ratio
DH 296	67.5x20 cm	100% RDF	5023	7574	386.7	83.3	42.0	54039	1.63
		STCR	5047	7457	388.3	86.3	41.0	54443	1.64
		SSNM	5403	7814	371.7	83.4	40.7	60630	1.83
	67.5x15 cm	100% RDF	5295	8140	375.0	87.0	43.0	58747	1.77
		STCR	5496	7953	343.3	86.1	41.3	62244	1.88
		SSNM	5163	7930	346.7	88.4	40.0	56460	1.71
P 1844 (Pioneer)	67.5x20 cm	100% RDF	5310	7860	350.0	89.0	41.0	59016	1.78
		STCR	5318	7822	368.3	87.1	41.0	59150	1.79
		SSNM	5178	7504	370.0	83.8	41.7	56729	1.71
	67.5x15 cm	100% RDF	5124	7767	393.3	85.8	43.7	55788	1.68
		STCR	5388	8093	341.7	84.8	42.7	60361	1.82
		SSNM	5171	7651	396.7	87.4	41.0	56595	1.71
Mean of location			5242.9	7797.2	369.3	86.0	41.6	57850.2	1.75
DH 296			5238	7811	368.6	85.8	41.3	57761	1.74
P 1844 (Pioneer)			5248	7783	370.0	86.3	41.8	57940	1.75
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			4.1	6.5	16.4	5.9	4.9	6.5	6.5
67.5x20 cm			5213	7672	372.5	85.5	41.2	57335	1.73
67.5x15 cm			5273	7922	366.1	86.6	41.9	58366	1.76
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			7.6	4.8	7.5	7.1	3.8	11.9	11.9
100% RDF (120:60:40)			5188	7835	376.3	86.3	42.4	56898	1.72
STCR (220:100:91)			5312	7831	360.4	86.1	41.5	59049	1.78
SSNM (120:30:46)			5229	7725	371.3	85.8	40.8	57604	1.74
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			3.9	5.7	13.7	4.2	3.6	6.2	6.2

Hybrids	Density	Nutrient management	Maize equivalent yield (kg/ha) of MW cropping system	Net return (Rs./ha) of system	B:C ratio of system	Residual available (kg/ha)			Organic carbon (%)	Soil pH	Bulk density (Mg/m^3) at 0-15 cm depth
						N	P	K			
DH 296	67.5x20 cm	100% RDF	10635	89982	1.46	234.3	21.8	209.1	0.670	7.20	1.39
		STCR	10989	89054	1.32	233.0	26.9	234.1	0.677	7.07	1.37
		SSNM	11006	96231	1.59	236.3	20.9	216.5	0.663	7.17	1.39
	67.5x15 cm	100% RDF	11657	104152	1.68	236.7	21.6	216.2	0.687	7.17	1.40
		STCR	12624	111959	1.65	238.3	28.2	227.1	0.673	7.23	1.38
		SSNM	11568	103852	1.70	230.0	20.5	218.0	0.627	7.13	1.39
P 1844 (Pioneer)	67.5x20 cm	100% RDF	10473	87670	1.42	234.3	21.5	219.0	0.687	7.23	1.39
		STCR	10658	84333	1.25	236.7	28.5	224.4	0.690	7.17	1.37
		SSNM	10225	85102	1.40	229.0	20.3	213.8	0.613	7.13	1.37
	67.5x15 cm	100% RDF	11082	95955	1.55	234.3	21.1	214.3	0.637	7.03	1.36
		STCR	11585	97150	1.43	234.7	28.0	237.5	0.650	7.20	1.38
		SSNM	10913	94517	1.55	234.7	21.3	216.7	0.627	7.23	1.39
Mean of location			11117.9	94996.6	1.50	234.4	23.4	220.6	0.658	7.16	1.38
DH 296			11413	99205	1.57	234.8	23.3	220.2	0.666	7.16	1.39
P 1844 (Pioneer)			10823	90788	1.43	233.9	23.5	221.0	0.651	7.17	1.38
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			7.1	11.8	11.8	2.5	5.4	3.1	5.9	2.3	1.2
67.5x20 cm			10664	88729	1.41	233.9	23.3	219.5	0.667	7.16	1.38
67.5x15 cm			11572	101264	1.59	234.8	23.5	221.6	0.650	7.17	1.38
CD at 5%			537.3	7657.2	0.12	NS	NS	NS	NS	NS	NS
CV (%)			5.2	8.7	8.7	5.0	1.0	2.1	8.3	2.8	1.8
100% RDF (120:60:40)			10962	94440	1.53	234.9	21.5	214.7	0.670	7.16	1.38
STCR (220:100:91)			11464	95624	1.41	235.7	27.9	230.8	0.673	7.17	1.38
SSNM (120:30:46)			10928	94926	1.56	232.5	20.8	216.2	0.633	7.17	1.38
CD at 5%			NS	NS	0.11	NS	1.1	8.8	NS	NS	NS
CV (%)			5.0	8.3	8.5	4.5	5.2	4.6	10.4	2.8	1.6

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Hybrids	Density	Nutrient management	N uptake (kg/ha)			P uptake (kg/ha)			K uptake (kg/ha)		
			Grain	Straw	Total	Grain	Straw	Total	Grain	Straw	Total
DH 296	67.5x20 cm	100% RDF	65.1	30.4	95.5	11.3	9.2	20.5	24.1	96.6	120.7
		STCR	66.0	30.2	96.2	11.4	8.9	20.3	20.8	93.3	114.1
		SSNM	67.5	29.0	96.5	12.6	9.6	22.2	24.8	104.6	129.4
	67.5x15 cm	100% RDF	66.2	36.3	102.5	12.2	10.4	22.7	22.7	104.3	127.1
		STCR	70.1	32.4	102.5	12.3	9.7	22.0	26.3	102.5	128.9
		SSNM	66.2	32.3	98.5	11.7	10.2	21.9	24.3	100.1	124.4
P 1844 (Pioneer)	67.5x20 cm	100% RDF	70.1	32.1	102.3	12.0	9.9	22.0	23.4	99.6	123.0
		STCR	67.8	30.0	97.8	11.9	10.0	21.9	23.9	100.9	124.8
		SSNM	66.5	34.1	100.7	11.7	9.7	21.4	24.7	99.3	124.0
	67.5x15 cm	100% RDF	67.0	33.1	100.1	11.7	10.0	21.7	24.0	104.1	128.1
		STCR	66.4	37.7	104.1	11.9	10.4	22.3	23.8	104.7	128.4
		SSNM	65.0	31.8	96.8	11.6	9.9	21.5	23.9	101.1	125.0
Mean of location			67.0	32.5	99.5	11.9	9.8	21.7	23.9	100.9	124.8
DH 296			66.8	31.8	98.6	11.9	9.7	21.6	23.8	100.2	124.1
P 1844 (Pioneer)			67.1	33.2	100.3	11.8	10.0	21.8	23.9	101.6	125.6
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			14.4	11.3	13.4	0.8	4.3	1.6	7.9	12.7	11.1
67.5x20 cm			67.2	31.0	98.2	11.8	9.5	21.4	23.6	99.1	122.7
67.5x15 cm			66.8	33.9	100.8	11.9	10.1	22.0	24.2	102.8	127.0
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			7.4	19.2	7.7	9.5	11.4	8.3	17.5	6.2	7.7
100% RDF (120:60:40)			67.1	33.0	100.1	11.8	9.9	21.7	23.6	101.2	124.7
STCR (220:100:91)			67.6	32.6	100.2	11.9	9.7	21.6	23.7	100.4	124.1
SSNM (120:30:46)			66.3	31.8	98.1	11.9	9.8	21.7	24.4	101.3	125.7
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			9.5	17.0	8.8	6.1	8.6	4.3	17.0	7.5	7.5

Table 9: Effect of plant density and nutrient management practices on performance of hybrids in *Kharif* season in Dholi.

Hybrid	Density	Nutrient	Wheat Grain yield (Kg/ha)	Stover yield (Kg/ha)	Plant height (cm)	Days of flowering	Days of maturity	Effective tillers/m²
Poineer 3540	60x20 cm	RDF	4103	6053	79.0	88.7	127.7	298.7
		STCR	4002	6253	78.8	87.0	126.0	298.3
		SSNM	4032	5887	77.5	87.0	127.0	292.0
	50x20 cm	RDF	4002	6047	80.2	88.0	128.0	288.7
		STCR	3981	6147	80.0	87.7	128.0	290.0
		SSNM	4042	5680	79.7	87.7	128.0	292.0
Rasi 4595	60x20 cm	RDF	4042	5977	80.2	88.3	126.7	291.0
		STCR	4103	6150	78.4	87.0	127.0	295.7
		SSNM	3941	6017	80.0	88.3	126.3	298.0
	50x20 cm	RDF	3910	5977	78.2	87.7	127.3	301.3
		STCR	3920	6197	77.3	88.0	127.7	292.7
		SSNM	4195	5950	78.9	89.7	128.3	294.3
Mean of location			4022.8	6027.8	79.0	87.9	127.3	294.4
Pioneer 3540			4027	6011	79.2	87.7	127.4	293.3
Rasi 4595			4019	6044	78.8	88.2	127.2	295.5
CD at 5%			1.58	12.0	NS	NS	NS	NS
CV (%)			0.027	0.14	2.94	1.31	0.52	2.95
60x20 cm			4027	6011	79.2	87.7	127.4	293.3
50x20 cm			4019	6044	78.8	88.2	127.2	295.5
CD at 5%			2.55	24.0	NS	NS	0.69	NS
CV (%)			0.069	0.43	2.88	1.17	0.59	3.44
RDF (120:60:40)			4014	6013	79.4	88.2	127.4	294.9
STCR (183:112:33)			4002	6187	78.7	87.4	127.2	294.2
SSNM (130:50:25)			4052	5883	79.0	88.2	127.4	294.1
CD at 5%			6.21	22.0	NS	NS	NS	NS
CV (%)			0.178	0.42	1.57	1.26	0.88	2.85

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Hybrid	Density	Nutrient	Spike length (cm)	Spikelet's/ spike	Grains/ spikes	1000 grain weight (g)	Net return (Rs./ha)	B:C ratio	Moisture (%)
Poineer 3540	60x20 cm	RDF	11.5	40.7	39.3	47.1	56639	0.83	11.8
		STCR	11.3	42.0	40.0	47.7	60549	0.89	12.0
		SSNM	11.3	41.0	40.0	47.5	63472	0.93	11.3
	50x20 cm	RDF	11.3	40.7	40.0	45.6	56603	0.83	10.0
		STCR	11.4	38.3	37.0	47.4	62632	0.92	11.5
		SSNM	11.6	39.3	38.0	46.5	64064	0.94	12.0
Rasi 4595	60x20 cm	RDF	11.2	39.3	38.7	47.3	59575	0.88	11.6
		STCR	11.3	39.0	38.0	46.6	62479	0.92	10.8
		SSNM	11.4	38.7	37.7	45.9	62857	0.93	11.7
	50x20 cm	RDF	11.2	40.3	38.7	47.7	57166	0.84	12.3
		STCR	11.2	39.7	38.0	46.3	61583	0.91	11.2
		SSNM	11.5	38.3	37.7	46.7	60945	0.90	10.5
Mean of location			11.4	39.8	38.6	46.9	60713.7	0.89	11.4
Pioneer 3540			11.4	40.3	39.1	47.0	60660	0.89	11.4
Rasi 4595			11.3	39.2	38.1	46.7	60768	0.90	11.4
CD at 5%			NS	NS	NS	NS	NS	NS	
CV (%)			6.9	7.3	5.1	3.0	25.5	25.5	
60x20 cm			11.4	40.3	39.1	47.0	60660	0.89	11.4
50x20 cm			11.3	39.2	38.1	46.7	60768	0.90	11.4
CD at 5%			NS	NS	NS	NS	NS	NS	
CV (%)			4.2	6.5	6.6	3.5	9.9	9.9	
RDF (120:60:40)			11.3	40.3	39.2	46.9	57496	0.85	11.4
STCR (183:112:33)			11.3	39.8	38.3	47.0	61811	0.91	11.4
SSNM (130:50:25)			11.5	39.3	38.3	46.7	62835	0.93	11.4
CD at 5%			NS	NS	NS	NS	4017.6	0.06	
CV (%)			3.5	3.8	4.1	2. 8	7.6	7.6	

Table 10: Effect of planting density and nutrient management practices on the performance of hybrid maize during *Rabi* season at Bahraich.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to maturity	Cob length (cm)	Grains row/cobs
H-9081	60x20 cm	RDF	6877	8120	82.7	82.5	196.0	159.3	17.2	18.7
		STCR	7270	8560	82.7	82.7	203.3	161.7	17.4	20.3
		SSNM	7577	8900	82.8	82.7	206.0	162.0	18.5	21.0
	50x20 cm	RDF	6667	7497	99.3	99.1	198.3	161.7	16.9	18.0
		STCR	6970	8030	99.6	99.3	207.0	162.3	17.2	19.3
		SSNM	7183	8460	99.7	99.5	207.3	162.3	18.6	19.3
H-7705	60x20 cm	RDF	6593	7567	82.5	82.3	201.3	164.0	17.6	16.7
		STCR	6900	7903	82.7	82.4	203.7	165.7	17.6	17.7
		SSNM	7007	8193	82.7	82.4	207.7	167.3	18.5	17.3
	50x20 cm	RDF	6370	7387	99.5	99.2	205.0	163.3	17.1	15.7
		STCR	6563	7757	99.6	99.4	207.0	165.3	17.4	16.7
		SSNM	6883	8240	99.7	99.5	209.0	167.3	17.9	17.3
Mean of location			6905.0	8051.1	91.1	90.9	204.3	163.5	17.7	18.2
H-9081			7091	8261	91.1	91.0	203.0	161.6	17.6	19.4
H-7705			6719	7841	91.1	90.9	205.6	165.5	17.7	16.9
CD at 5%			76.8	122.2	NS	NS	1.96	0.86	NS	1.33
CV (%)			0.78	1.06	0.20	0.12	0.67	0.37	2.92	5.11
60x20 cm			7037	8207	82.7	82.5	203.0	163.3	17.8	18.6
50x20 cm			6773	7895	99.6	99.3	205.6	163.7	17.5	17.7
CD at 5%			41.9	72.5	0.07	0.03	0.95	NS	NS	NS
CV (%)			0.66	0.97	0.08	0.04	0.50	0.41	2.67	6.02
RDF (200:60:6)			6627	7643	91.0	90.8	200.2	162.1	17.2	17.3
STCR (200:50:50)			6926	8063	91.1	91.0	205.3	163.8	17.4	18.5
SSNM (225:60:80)			7163	8448	91.2	91.0	207.5	164.8	18.4	18.8
CD at 5%			62.6	71.2	0.07	0.06	0.87	0.55	0.35	0.61
CV (%)			1.05	1.02	0.09	0.07	0.49	0.39	2.31	3.89

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Hybrids	Density	Nutrient management	Grains /row	1000 seed weight (g)	Barrenness (%)	Net Profit (Rs./ha)	B:C ratio	Nutrient uptake (kg/ha)		
								N	P	K
H-9081	60x20 cm	RDF	27.0	228.3	0.533	73073	3.33	168.5	30.6	83.4
		STCR	30.7	233.0	0.400	78930	3.52	175.7	32.5	87.7
		SSNM	29.3	231.0	0.433	81890	3.54	181.8	35.6	90.7
	50x20 cm	RDF	25.7	227.0	0.733	69433	3.21	164.1	29.9	81.1
		STCR	27.7	228.3	0.533	73130	3.34	168.8	33.7	84.0
		SSNM	27.0	230.3	0.500	75516	3.34	176.5	34.8	88.4
H-7705	60x20 cm	RDF	25.0	226.0	0.700	67506	3.15	177.7	36.0	81.7
		STCR	27.7	227.7	0.500	72150	3.30	183.1	36.6	90.9
		SSNM	26.7	226.0	0.567	72943	3.26	184.5	37.0	93.0
	50x20 cm	RDF	24.3	223.0	0.600	65280	3.08	165.6	35.1	80.8
		STCR	25.3	225.3	0.433	68336	3.18	173.1	35.7	85.9
		SSNM	25.3	223.0	0.567	72416	3.25	168.6	36.5	87.4
Mean of location			26.8	227.4	0.542	72550.3	3.29	174.0	34.5	86.2

H-9081	27.9	229.7	0.522	75329	3.38	172.6	32.9	85.9
H-7705	25.7	225.2	0.561	69772	3.20	175.5	36.1	86.6
CD at 5%	0.72	0.41	NS			2.08	0.88	NS
CV (%)	1.87	0.13	13.4			0.82	1.78	2.79

60x20 cm	27.7	228.7	0.522	74415	3.35	178.6	34.7	87.9
50x20 cm	25.9	226.2	0.561	70685	3.23	169.5	34.3	84.6
CD at 5%	0.79	0.51	NS			0.94	NS	2.72
CV (%)	3.17	0.24	16.3			0.52	2.68	3.41

RDF (200:60:6)	25.5	226.1	0.642	68823	3.19	169.0	32.9	81.8
STCR (200:50:50)	27.8	228.6	0.467	73137	3.34	175.2	34.6	87.1
SSNM (225:60:80)	27.1	227.6	0.517	75691	3.35	177.9	35.9	89.9
CD at 5%	0.69	0.68	0.1			1.13	0.87	1.76
CV (%)	2.98	0.34	18.1			0.44	2.90	2.36

Table 11: Effect of planting density and nutrient management in *Kharif maize* on the performance of mustard in *Rabi* season at Kalyani.

Hybrids	Density	Nutrient management	Mustard seed yield (kg/ha)	Pods/ plant	Branches/ plant	Seeds/ pod	Plant height (cm)	Maize equivalent yield (kg/ha)
P3077	60x20 cm	RDF	1144	241.7	6.0	12.0	130.0	43919
		STCR	1219	263.0	6.7	12.3	138.0	47436
		SSNM	1182	251.0	6.3	12.3	136.7	44806
	50x20 cm	RDF	1225	262.0	7.3	12.3	131.0	48951
		STCR	1389	283.3	8.3	13.3	152.7	55331
		SSNM	1238	264.0	7.7	12.7	137.3	49568
Kaveri 50	60x20 cm	RDF	930	234.3	4.7	10.7	112.7	34711
		STCR	1040	237.7	6.3	10.7	119.3	39868
		SSNM	996	244.0	5.3	10.7	116.7	38925
	50x20 cm	RDF	1080	240.3	5.7	10.3	130.0	43416
		STCR	1104	253.3	6.3	11.3	135.7	46577
		SSNM	1078	252.0	6.0	10.7	133.3	44143
Mean of location			1135.3	252.2	6.4	11.6	131.1	44804.3
P3077			1233	260.8	7.1	12.5	137.6	48335
Kaveri 50			1038	243.6	5.7	10.7	124.6	41273
CD at 5%			145.0	NS	0.72	1.0	NS	4411.9
CV (%)			8.9	8.5	7.8	6.3	10.1	6.9
60x20 cm			1085	245.3	5.9	11.4	125.6	41611
50x20 cm			1186	259.2	6.9	11.8	136.7	47998
CD at 5%			61.7	NS	0.79	NS	9.7	2143.2
CV (%)			5.9	8.4	13.3	7.3	8.0	5.2
RDF			1095	244.6	5.9	11.3	125.9	42749
STCR			1188	259.3	6.9	11.9	136.4	47303
SSNM			1123	252.8	6.3	11.6	131.0	44361
CD at 5%			51.8	NS	0.67	NS	6.5	1985.8
CV (%)			5.3	7.0	12.1	6.3	5.7	5.1

Fertilizers-80:40:40 N:P:K kg/ha

Table 12: Effect of planting density and nutrient management practices on the performance of hybrid in the *Rabi* season (Rice - Maize) in Dholi.

Hybrid	Density	Nutrient	Maize Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Ear height (cm)
NK 6702	60x20 cm	RDF	8289	11088	9558	98.9	99.1	182.0	65.0
		STCR	8210	11163	8950	98.7	100.0	173.3	64.0
		SSNM	8574	11541	9602	99.6	98.9	184.3	64.0
	50x20 cm	RDF	9982	13694	9312	115.1	114.2	184.0	64.3
		STCR	10172	13883	8932	114.7	114.9	182.3	65.3
		SSNM	10104	13600	9079	115.8	114.9	183.7	64.3
NK 7720	60x20 cm	RDF	7193	10049	9025	99.3	98.7	191.3	65.0
		STCR	7365	10370	8112	98.9	99.1	192.0	66.7
		SSNM	7162	10219	8859	98.4	99.3	190.7	65.7
	50x20 cm	RDF	8579	12127	9148	115.1	116.4	191.3	65.0
		STCR	8617	12070	7811	116.0	116.2	190.0	69.0
		SSNM	9626	13827	9079	115.3	115.8	182.3	68.3
Mean of location			8656.1	11969.3	8955.5	107.1	107.3	185.6	65.6
NK 6702			9222	12495	9239	107.1	107.0	181.6	64.5
NK 7720			8090	11444	8672	107.2	107.6	189.6	66.6
CD at 5%			1007.1	NS	NS	NS	NS	NS	NS
CV (%)			8.1	8.3	29.6	1.5	1.5	12.1	2.5
60x20 cm			9222	12495	9239	107.1	107.0	181.6	64.5
50x20 cm			8090	11444	8672	107.2	107.6	189.6	66.6
CD at 5%			864.7	1188.4	NS	1.1	1.4	NS	NS
CV (%)			10.8	10.7	13.7	1.1	1.4	4.3	8.4
RDF (120:60:40)			8511	11739	9260	107.1	107.1	187.2	64.8
STCR (183:102:100)			8591	11872	8451	107.1	107.6	184.4	66.3
SSNM (112:45:42)			8867	12297	9155	107.3	107.2	185.3	65.6
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			6.0	5.9	11.1	0.5	1.3	3.5	6.6

Hybrid	Density	Nutrient	Days of 50% tasseling	Days of 50% silking	Days of maturity	Cob length (cm)	Cob girth (cm)	Net return	B:C ratio	Moisture (%)
NK 6702	60x20 cm	RDF	127.7	130.7	173.0	17.0	15.0	126413	1.94	20.0
		STCR	127.3	131.0	172.0	16.7	14.7	123038	1.89	21.3
		SSNM	126.3	129.7	171.7	18.0	14.3	132191	2.03	20.5
	50x20 cm	RDF	126.3	130.0	171.7	18.3	13.3	147848	2.27	22.0
		STCR	126.3	129.7	172.3	21.0	15.0	152025	2.34	21.6
		SSNM	126.3	129.7	173.7	16.3	13.7	145799	2.24	20.5
NK 7720	60x20 cm	RDF	124.3	128.7	174.0	19.0	14.3	104903	1.61	23.4
		STCR	125.7	129.3	172.0	19.3	14.3	114504	1.76	24.0
		SSNM	126.0	129.7	172.3	20.3	14.7	101494	1.56	25.0
	50x20 cm	RDF	127.0	130.7	172.7	19.3	13.3	124591	1.92	24.3
		STCR	129.0	132.3	172.0	19.7	14.0	132432	2.04	23.6
		SSNM	127.7	131.0	173.0	18.7	15.3	141135	2.17	25.5
Mean of location			126.7	130.2	172.5	18.6	14.3	128864.2	1.98	22.6
NK 6702			126.7	130.1	172.4	17.9	14.3	137886	2.12	21.0
NK 7720			126.6	130.3	172.7	19.4	14.3	119843	1.84	24.3
CD at 5%			NS	NS	NS	NS	NS	4649.8	0.1	
CV (%)			1.5	0.8	0.5	6.2	5.3	2.5	2.5	
60x20 cm			126.7	130.1	172.4	17.9	14.3	137886	2.12	21.0
50x20 cm			126.6	130.3	172.7	19.4	14.3	119843	1.84	24.3
CD at 5%			NS	NS	NS	NS	NS	7782.0	0.1	
CV (%)			1.1	0.8	0.6	3.1	5.1	6.5	6.5	
RDF (120:60:40)			126.3	130.0	172.8	18.4	14.0	125939	1.94	22.4
STCR (183:102:100)			127.1	130.6	172.1	19.2	14.5	130499	2.01	22.6
SSNM (112:45:42)			126.6	130.0	172.7	18.3	14.5	130155	2.00	22.9
CD at 5%			NS	NS	NS	NS	NS	NS	NS	
CV (%)			0.9	0.8	0.5	8.8	11.8	7.0	7.0	

Table 13: 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)	Plant height (cm)	Days 50% tasseling	Days 50% silking	Date to maturity	100-seed weight (g)
P3396	60x20 cm	RDF	7276	9292	74.7	242.2	88.3	91.3	136.7	34.3
		STCR	8427	10323	76.4	262.4	86.0	89.0	134.7	36.7
		SSNM	8294	10248	75.6	253.3	88.0	90.7	136.3	35.7
	50x20 cm	RDF	8367	10237	78.7	263.6	87.0	89.7	135.3	37.7
		STCR	9263	11300	80.3	271.8	88.0	91.0	136.7	40.7
		SSNM	8770	10708	80.0	260.7	87.3	90.3	136.0	38.7
JKMH502	60x20 cm	RDF	8886	10951	77.7	260.4	92.7	95.3	140.3	41.3
		STCR	9574	11662	79.3	276.7	91.0	93.7	139.0	43.7
		SSNM	8978	11116	78.7	263.3	92.7	95.3	140.7	42.3
	50x20 cm	RDF	9283	11328	80.7	274.4	91.7	93.7	138.3	45.0
		STCR	10963	13033	82.3	312.6	92.0	95.3	140.0	47.0
		SSNM	9477	11492	81.0	280.7	92.3	95.0	140.0	46.3
Mean of location			8963.2	10974.2	78.8	268.5	89.8	92.5	137.8	40.8
P3396			8400	10351	77.6	259.0	87.4	90.3	135.9	37.3
JKMH502			9527	11597	79.9	278.0	92.1	94.7	139.7	44.3
CD at 5%			NS	NS	NS	NS	2.0	0.86	2.9	NS
CV (%)			11.1	8.9	3.6	11.3	1.6	0.65	1.5	13.1
60x20 cm			8573	10599	77.1	259.7	89.8	92.6	137.9	39.0
50x20 cm			9354	11350	80.5	277.3	89.7	92.5	137.7	42.6
CD at 5%			721.7	696.5	2.3	13.4	NS	NS	NS	3.3
CV (%)			8.7	6.9	3.1	5.4	2.0	2.3	1.7	8.7
RDF (120:60:60)			8453	10452	77.9	260.1	89.9	92.5	137.7	39.6
STCR (173:70:65)			9557	11580	79.6	280.9	89.3	92.3	137.6	42.0
SSNM (130:60:63)			8880	10891	78.8	264.5	90.1	92.8	138.3	40.8
CD at 5%			642.4	628.4	1.2	NS	NS	NS	NS	NS
CV (%)			8.3	6.6	1.8	9.3	1.5	1.5	1.2	5.7

Hybrids	Density	Nutrient management	Net returns (Rs./ha)	B:C ratio	Barrenness in maize (%)	Cob length (cm)	Cob girth (cm)	Grain rows/ cob	Grains/ row
P3396	60x20 cm	RDF	48526	1.85	0.543	13.6	11.4	12.5	27.5
		STCR	63774	2.10	0.455	15.3	12.7	13.2	29.9
		SSNM	62654	2.09	0.506	15.1	12.6	12.5	28.7
	50x20 cm	RDF	63509	2.11	0.317	15.5	14.0	13.7	30.2
		STCR	75760	2.31	0.312	15.7	14.6	14.3	31.9
		SSNM	69276	2.21	0.322	15.5	14.4	14.0	30.7
JKMH502	60x20 cm	RDF	71165	2.24	0.315	16.3	15.3	15.0	31.9
		STCR	80217	2.38	0.249	16.8	16.5	15.2	33.7
		SSNM	72596	2.27	0.253	16.8	16.2	15.0	32.8
	50x20 cm	RDF	76690	2.34	0.224	17.1	16.9	15.2	33.9
		STCR	99618	2.72	0.200	17.3	17.8	16.0	35.1
		SSNM	79332	2.38	0.203	17.2	17.6	15.3	34.9
Mean of location			71926.4	2.25	0.325	16.0	15.0	14.3	31.8
P3396			63916	2.11	0.409	15.1	13.3	13.3	29.8
JKMH502			79936	2.39	0.241	16.9	16.7	15.3	33.7
CD at 5%			NS	NS	0.04	NS	1.5	NS	NS
CV (%)			19.3	10.8	9.0	17.4	6.9	7.3	13.5
60x20 cm			66489	2.15	0.387	15.7	14.1	13.9	30.8
50x20 cm			77364	2.34	0.263	16.4	15.9	14.7	32.8
CD at 5%			10035.1	0.17	0.03	NS	NS	NS	NS
CV (%)			15.1	8.4	9.8	12.5	13.3	5.4	5.7
RDF (120:60:60)			64972	2.13	0.350	15.6	14.4	14.1	30.9
STCR (173:70:65)			79842	2.38	0.304	16.3	15.4	14.7	32.7
SSNM (130:60:63)			70965	2.24	0.321	16.2	15.2	14.2	31.8
CD at 5%			8953.0	0.16	0.03	NS	0.82	NS	NS
CV (%)			14.4	8.0	9.5	6.9	6.3	6.9	9.4

Table 14: Effect of planting density and nutrient management practices on the performance of hybrids in *Rabi* season in Coimbatore.

Hybrids	Density	Nutrient management	Maize 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	7539	12331	81.0	78.5	223.6	53.3	57.3
		STCR	6902	11328	80.8	78.7	220.9	52.7	56.7
		SSNM	5668	9243	80.4	77.4	217.1	51.3	55.0
	50x20 cm	RDF	8104	13468	96.6	94.5	225.3	52.7	56.7
		STCR	7423	12373	96.3	93.6	222.7	52.3	56.3
		SSNM	6096	10096	97.4	94.3	218.6	51.0	55.3
NK 6240	60x20 cm	RDF	7037	11576	81.4	78.9	219.5	52.7	56.3
		STCR	6446	10635	80.6	78.3	216.6	51.3	55.7
		SSNM	5293	8684	80.6	78.3	212.3	50.7	54.7
	50x20 cm	RDF	7589	12554	97.0	94.0	221.1	52.3	56.3
		STCR	6951	11533	96.5	94.3	218.2	50.7	54.3
		SSNM	5706	9411	96.7	94.5	214.3	50.3	54.0
Mean of location			6729.5	11102.7	88.8	86.3	219.2	51.8	55.7
CO H 6			6955	11473	88.8	86.2	221.4	52.2	56.2
NK 6240			6504	10732	88.8	86.4	217.0	51.3	55.2
CD at 5%			340.7	517.8	NS	NS	NS	NS	NS
CV (%)			3.5	3.3	1.9	3.9	3.7	2.6	2.9
60x20 cm			6481	10633	80.8	78.4	218.3	52.0	55.9
50x20 cm			6978	11573	96.8	94.2	220.0	51.6	55.5
CD at 5%			391.6	513.0	1.1	1.8	NS	NS	NS
CV (%)			6.3	5.0	1.4	2.2	3.1	1.7	3.2
RDF (250:75:75)			7567	12482	89.0	86.5	222.4	52.8	56.7
STCR (191:80:38)			6931	11467	88.6	86.2	219.6	51.8	55.8
SSNM (110:61:90)			5691	9359	88.8	86.1	215.6	50.8	54.8
CD at 5%			364.3	648.1	NS	NS	NS	NS	NS
CV (%)			6.3	6.7	3.1	4.3	5.1	4.6	5.1

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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	38.1	71055	2.31	18.9	16.3	15.6	37.4
		STCR	37.5	61640	2.16	18.2	15.9	15.2	36.8
		SSNM	36.6	41965	1.80	16.3	15.1	14.0	35.2
	50x20 cm	RDF	37.7	77662	2.35	18.4	15.9	15.2	36.6
		STCR	37.1	67500	2.20	17.6	15.4	14.9	35.9
		SSNM	36.3	46238	1.84	15.5	14.6	13.6	34.3
NK 6240	60x20 cm	RDF	37.2	62770	2.15	17.7	15.8	15.2	36.1
		STCR	36.7	54107	2.02	16.8	15.3	14.8	35.5
		SSNM	35.9	35781	1.68	14.9	14.4	13.6	33.8
	50x20 cm	RDF	36.7	69028	2.21	17.3	15.3	14.8	35.2
		STCR	36.1	59585	2.06	16.5	14.7	14.4	34.5
		SSNM	35.1	39703	1.72	14.2	13.8	13.6	32.7
Mean of location			36.8	57252.8	2.04	16.9	15.2	14.6	35.3
CO H 6			37.2	61010	2.11	17.5	15.5	14.8	36.0
NK 6240			36.3	53496	1.97	16.2	14.9	14.4	34.6
CD at 5%			NS	4592.8	0.1	0.3	NS	NS	NS
CV (%)			4.5	5.6	2.8	1.1	4.6	1.2	4.1
60x20 cm			37.0	54553	2.02	17.1	15.5	14.7	35.8
50x20 cm			36.5	59953	2.06	16.6	15.0	14.4	34.9
CD at 5%			NS	NS	NS	NS	NS	NS	NS
CV (%)			6.1	11.7	6.1	8.5	8.0	4.1	3.3
RDF (250:75:75)			37.4	70129	2.26	18.1	15.8	15.2	36.3
STCR (191:80:38)			36.9	60708	2.11	17.3	15.3	14.8	35.7
SSNM (110:61:90)			36.0	40922	1.76	15.2	14.5	13.7	34.0
CD at 5%			NS	5441.3	0.1	1.1	0.8	NS	NS
CV (%)			5.8	11.0	5.6	7.6	6.2	5.2	6.4

Table 15: Effect of planting density and nutrient management practices on performance of full season hybrids in *Rabi* season 2017-18 at Karimnagar.

Hybrid	Spacing	Nutrient management	Maize Grain yield (kg/ha)	Stalk yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Ear height (cm)	Days to 50% tasseling	Days to 50% silking
NK-6240	60x20 cm	SSNM	8505	8196	12102	60.9	196.7	105.3	63.3	66.3
		STCR	8593	7826	12047	66.0	196.3	109.0	64.0	67.3
		RDF	8788	8289	12341	69.4	194.7	113.3	64.0	68.3
	50x20 cm	SSNM	8526	8474	12051	71.1	195.7	105.3	63.7	69.0
		STCR	8582	8312	11889	75.9	196.7	104.0	66.0	69.7
		RDF	8738	8567	12327	74.8	206.3	109.7	64.0	69.0
K-3110	60x20 cm	SSNM	8962	8497	12572	64.6	216.0	116.7	64.0	69.3
		STCR	9040	8474	12570	69.9	218.7	113.3	64.3	69.3
		RDF	9133	8706	12730	67.4	213.3	114.0	64.3	69.7
	50x20 cm	SSNM	8787	8451	12325	82.6	218.3	117.0	65.3	70.0
		STCR	9069	8520	12688	82.2	217.7	117.0	64.7	69.7
		RDF	9100	8798	12707	78.9	198.3	111.0	64.7	69.3
Mean of location			8818.6	8425.9	12362.3	72.0	205.7	111.3	64.4	68.9
P3396			8622	8277	12126	69.7	197.7	107.8	64.2	68.3
NK 6240			9015	8574	12599	74.3	213.7	114.8	64.6	69.6
CD at 5%			NS	NS	NS	NS	10.9	NS	NS	NS
CV (%)			5.6	7.2	7.1	8.4	3.7	15.2	2.5	1.3
60x20 cm 83,333 pl/ha			8837	8331	12394	66.4	205.9	111.9	64.0	68.4
50x20 cm 1,00,000 pl/ha			8800	8520	12331	77.6	205.5	110.7	64.7	69.4
CD at 5%			NS	NS	NS	2.98	NS	NS	0.62	NS
CV (%)			5.0	11.6	4.7	4.5	8.5	6.0	1.0	1.7
SSNM (190:84:143)			8695	8405	12263	69.8	206.7	111.1	64.1	68.7
STCR (260:94:61)			8821	8283	12298	73.5	207.3	110.8	64.8	69.0
RDF (240:80:80)			8940	8590	12526	72.6	203.2	112.0	64.3	69.1
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			4.8	10.4	4.8	9.7	6.6	8.2	1.3	1.3

Hybrid	Spacing	Nutrient management	Cob length (cm)	Cob girth (cm)	Grain rows/ cob	Grains/ row	100-grain weight (g)	Shelling (%)	Net returns (Rs./ha)	B : C Ratio
NK-6240	60x20 cm	SSNM	19.1	16.4	14.5	33.1	42.0	70.3	58776	1.94
		STCR	18.4	15.3	15.1	32.4	36.3	71.3	58068	1.90
		RDF	18.9	16.3	14.8	32.5	38.0	71.2	63516	2.03
	50x20 cm	SSNM	18.3	16.5	14.5	31.8	38.7	70.8	58067	1.92
		STCR	18.3	15.7	14.4	32.1	34.7	72.2	56902	1.87
		RDF	18.0	16.5	15.3	31.9	34.7	70.9	61786	1.99
K-3110	60x20 cm	SSNM	19.3	17.0	14.8	38.5	36.0	71.3	65289	2.05
		STCR	19.8	18.1	14.5	38.3	35.3	71.9	64434	2.00
		RDF	18.6	16.7	14.8	38.7	33.3	71.8	68435	2.11
	50x20 cm	SSNM	18.1	16.0	13.9	36.6	32.7	71.3	61786	1.97
		STCR	18.0	16.8	14.3	35.3	37.3	71.5	63842	1.98
		RDF	18.9	16.8	14.3	36.0	33.3	71.6	66943	2.07
Mean of location			18.6	16.5	14.6	34.8	36.0	71.3	62320.5	2.0
P3396			18.5	16.1	14.8	32.3	37.4	71.1	59519	1.94
NK 6240			18.8	16.9	14.4	37.2	34.7	71.6	65122	2.03
CD at 5%			NS	NS	NS	4.0	NS	NS	NS	NS
CV (%)			1.1	3.4	2.5	7.9	20.0	1.7	11.2	5.6
60x20 cm 83,333 pl/ha			19.0	16.6	14.8	35.6	36.8	71.3	63087	2.00
50x20 cm 1,00,000 pl/ha			18.2	16.4	14.4	34.0	35.2	71.4	61554	1.96
CD at 5%			0.61	NS	NS	NS	NS	NS	NS	NS
CV (%)			3.5	5.7	5.3	7.3	7.8	2.7	10.2	5.0
SSNM (190:84:143)			18.7	16.5	14.4	35.0	37.3	70.9	60979	1.97
STCR (260:94:61)			18.6	16.5	14.6	34.5	35.9	71.7	60812	1.94
RDF (240:80:80)			18.6	16.6	14.8	34.8	34.8	71.4	65170	2.05
CD at 5%			NS	NS	NS	NS	NS	NS	NS	0.08
CV (%)			3.3	5.7	5.2	5.8	8.6	1.8	9.7	4.8

Table 16: Effect of planting density and nutrient management practices on the performance of hybrids in *Rabi* season at Vagarai.

Hybrids	Density	Nutrient Management	Maize grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	100 grain weight (g)
Co (TNAU Maize hybrid)	60x20 cm (normal)	RDF	12060	14578	11230	72.0	74.7	188.4	51.3	56.0	33.3
		STCR	10688	13762	13420	74.0	75.3	191.9	52.0	56.7	32.0
		SSNM	11623	14108	14054	70.9	71.8	194.4	53.0	56.7	40.0
	50x20 cm (high)	RDF	13684	16913	8380	84.2	82.9	193.2	53.7	58.7	34.7
		STCR	12589	16074	9638	84.9	84.9	187.8	53.3	57.7	39.3
		SSNM	13165	16432	8680	84.4	86.4	196.8	55.0	59.0	28.7
P-3502 (Pioneer hybrid)	60x20 cm (normal)	RDF	12147	13515	14836	70.0	67.1	192.1	53.7	59.3	33.3
		STCR	8809	10070	12724	68.9	68.2	194.1	52.3	57.7	31.3
		SSNM	10130	11219	13959	65.1	70.0	190.6	52.7	57.7	34.0
	50x20 cm (high)	RDF	10234	11603	11715	80.9	82.4	194.5	53.3	57.7	32.0
		STCR	9036	10866	13522	85.1	82.2	193.4	56.7	61.0	31.3
		SSNM	9883	11418	13660	83.3	82.2	188.3	55.0	59.0	30.0
Mean of location			11170.6	13379.8	12151.4	77.0	77.4	192.1	53.5	58.1	33.3
Co (TNAU Maize hybrid)			12302	15311	10900	78.4	79.3	192.1	53.1	57.4	34.7
P-3502 (Pioneer hybrid)			10040	11448	13403	75.6	75.4	192.2	53.9	58.7	32.0
CD at 5%			NS	3669.6	NS	NS	NS	NS	NS	NS	NS
CV (%)			23.2	19.1	20.6	5.3	3.8	14.6	4.9	4.6	10.8
60x20 cm (normal)			10909	12875	13370	70.1	71.2	191.9	52.5	57.3	34.0
50x20 cm (high)			11432	13884	10932	83.8	83.5	192.3	54.5	58.8	32.7
CD at 5%			NS	NS	NS	3.5	5.4	NS	1.9	NS	NS
CV (%)			16.1	18.4	23.9	4.9	7.5	3.9	3.9	3.1	9.4
RDF			12031	14152	11540	76.8	76.8	192.0	53.0	57.9	33.3
STCR			10280	12693	12326	78.2	77.7	191.8	53.6	58.3	33.5
SSNM			11200	13294	12588	75.9	77.6	192.5	53.9	58.1	33.2
CD at 5%			1139.5	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			11.8	10.7	16.8	4.5	3.2	3.0	2.5	2.5	14.5

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Hybrids	Density	Nutrient Management	Shelling (%)	Barrenness (%)	Gross returns (INR/ ha)	Net returns (INR/ ha)	B:C ratio	Cob length (cm)	Cob girth (cm)	Grain rows/ com	Grains/ row
Co (TNAU Maize hybrid)	60x20 cm (normal)	RDF	82.7	4.7	162814	106434	2.89	17.6	14.8	34.6	14.8
		STCR	78.0	2.9	144285	92145	2.77	17.5	14.8	35.5	15.7
		SSNM	82.3	8.4	156914	102511	2.88	16.6	14.7	34.0	15.6
	50x20 cm (high)	RDF	81.0	9.5	184740	128360	3.28	17.6	14.4	31.1	14.7
		STCR	78.7	6.4	169946	117806	3.26	16.8	13.6	30.5	14.5
		SSNM	80.1	2.7	177725	123322	3.27	17.3	14.3	32.0	14.6
P-3502 (Pioneer hybrid)	60x20 cm (normal)	RDF	89.8	6.3	163985	107605	2.91	17.9	15.0	34.0	15.7
		STCR	87.5	9.8	118921	66781	2.28	18.6	14.7	34.3	15.4
		SSNM	89.8	5.3	136749	82346	2.51	18.1	13.7	34.6	15.3
	50x20 cm (high)	RDF	88.1	7.8	138155	81775	2.45	17.5	15.1	30.5	16.3
		STCR	83.6	3.9	121987	69847	2.34	17.0	14.3	34.0	16.7
		SSNM	86.5	4.8	133423	79020	2.45	17.6	14.8	33.9	15.1
Mean of location			84.0	6.0	150803.8	96496.1	2.77	17.5	14.5	33.2	15.4
Co (TNAU Maize hybrid)			80.5	5.8	166071	111763	3.06	17.2	14.4	32.9	15.0
P-3502 (Pioneer hybrid)			87.5	6.3	135537	81229	2.49	17.8	14.6	33.5	15.7
CD at 5%			3.9	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			3.2	66.9	23.2	36.2	23.2	9.7	4.1	14.0	7.0
60x20 cm (normal)			85.0	6.3	147278	92970	2.71	17.7	14.6	34.5	15.4
50x20 cm (high)			83.0	5.8	154330	100022	2.84	17.3	14.4	32.0	15.3
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			3.7	127.9	16.1	25.1	16.0	7.6	5.3	15.4	5.8
RDF			85.4	7.1	162424	106044	2.88	17.7	14.8	32.5	15.4
STCR			81.9	5.7	138785	86645	2.66	17.5	14.3	33.6	15.6
SSNM			84.7	5.3	151203	96800	2.78	17.4	14.4	33.6	15.2
CD at 5%			NS	NS	15383.4	NS	NS	NS	NS	NS	NS
CV (%)			4.7	71.1	11.8	18.4	11.7	5.5	3.5	8.6	3.6

Table 17: Effect of planting density and nutrient management practices on the performance of hybrids in *Rabi* season at Banswara.

Spacing	Hybrids	Nutrient management	Grain yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)
60x20 cm	BIO-9782	RDF	8378	81.1	93.1	285.6
		SSNM	10972	80.6	106.0	276.5
		STCR	11111	80.8	104.9	282.2
	P-3502	RDF	7694	78.3	90.6	274.4
		SSNM	9139	77.8	102.3	273.3
		STCR	9167	79.2	103.0	279.4
50x20 cm	BIO-9782	RDF	9722	91.7	107.8	283.5
		SSNM	13889	93.3	125.0	278.1
		STCR	13611	95.0	123.2	284.7
	P-3502	RDF	8611	91.7	106.7	282.4
		SSNM	12222	91.7	119.2	277.2
		STCR	12778	93.3	118.8	281.9
Mean of location			10607.9	86.2	108.4	279.9
CO H 6			9410	79.6	100.0	278.6
NK 6240			11806	92.8	116.8	281.3
CD at 5%			661.9	5.4	4.1	NS
CV (%)			4.4	4.4	2.7	1.7
60x20 cm			11281	87.1	110.0	281.8
50x20 cm			9935	85.3	106.8	278.1
CD at 5%			717.6	NS	2.7	NS
CV (%)			7.3	9.7	2.7	1.6
RDF (150:60:40)			8601	85.7	99.6	281.5
STCR (208:59:66)			11556	85.8	113.1	276.3
SSNM (234:119:64)			11667	87.1	112.5	282.1
CD at 5%			860	NS	2.7	NS
CV (%)			9.4	3.1	2.9	3.3

Table 18: Weed management in maize systems in Pantnagar.

Treatments	Wheat grain yield (kg/ha)	Straw yield (kg/ha)	Tillers/m²	Plant height (cm)	1000-grain weight (g)	Net return (Rs./ha)	B:C ratio	MEY (kg/ha) of MW cropping system	Net return (Rs./ha) of system	B:C ratio of system
T_1	4889	7156	355.0	82.0	41.0	51708	1.56	8027	58558	1.05
T_2	4667	7200	333.3	83.0	40.3	47853	1.45	10108	71472	0.98
T_3	4756	7822	365.0	86.0	41.0	49395	1.49	9753	81400	1.41
T_4	4978	7911	341.7	87.0	40.7	53250	1.61	9864	82404	1.42
T_5	4978	8267	381.7	86.6	40.7	53250	1.61	10378	89552	1.54
T_6	4578	7067	358.3	87.0	41.7	46310	1.40	8442	59300	0.97
T_7	4667	7556	346.7	88.3	40.0	47853	1.45	9634	74526	1.19
T_8	4711	7556	305.0	87.3	41.3	48624	1.47	9968	81664	1.35
T_9	4800	7556	343.3	84.8	41.0	50166	1.51	9758	79759	1.35
T_{10}	4756	7422	378.3	84.2	40.0	49395	1.49	10081	81518	1.31
Mean	4777.8	7551.1	350.8	85.6	40.8	49780.4	1.50	9601.3	76015.3	1.26
CD	839.0	1058.9	95.3	7.8	3.0	14556.9	0.44	1514.0	21574.4	0.35
CV (%)	10.2	8.2	15.8	5.3	4.3	17.0	17.0	9.2	16.5	16.4
Significance	NS	NS	NS	NS	NS	NS	NS	NS	NS	S

Table 19: Weed Management in maize systems at Dholi.

Treatments	Grain yield (kg/ha)	Tillers/m²	Plant height (cm)	Days of flowering	Days of maturity	Spikelet's/ spike	1000 Grain Weight (g)	Net return (Rs./ha)	B:C Ratio	Moisture (%)
T_1	3720	401.0	79.0	84.3	122.3	40.7	39.5	43760	0.64	10.0
T_2	3563	406.7	81.5	85.3	123.7	45.3	39.6	54056	0.80	9.8
T_3	3657	410.0	78.3	82.0	123.0	42.7	38.2	57630	0.85	10.2
T_4	3587	407.0	77.9	82.7	124.0	43.3	40.7	42086	0.62	9.7
T_5	3593	409.7	78.2	83.7	124.7	45.0	38.9	48454	0.71	11.0
T_6	3537	407.7	76.5	83.0	122.3	46.0	39.9	42823	0.63	10.3
T_7	3533	411.3	77.3	84.3	122.7	45.7	41.2	47568	0.70	10.0
T_8	3680	410.7	80.6	84.7	123.3	38.3	40.6	45193	0.67	9.9
T_9	3673	403.3	79.8	82.7	124.3	41.3	40.4	46091	0.68	10.1
T_{10}	3510	412.3	79.6	83.3	122.7	43.7	39.8	50056	0.74	10.2
Mean	3605.3	408.0	78.9	83.6	123.3	43.2	39.9	47771.6	0.70	
CD	365.8	19.4	4.3	3.3	2.5	7.6	2.7	11067.7	0.16	
CV (%)	5.9	2.8	3.1	2.3	1.2	10.2	4.0	13.5	13.5	
Significance	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Table 20: Weed management in maize systems (Performance of Wheat in Rabi) in Kalyani.

Treatments	Grain yield (kg/ha) of Wheat	Grain yield of maize (kg/ha)	Maize equivalent yield/ system productivity
T_1	2922	6384	64831
T_2	5396	12916	120829
T_3	3860	9566	86772
T_4	3531	8341	78968
T_5	4104	9511	91591
T_6	3801	8899	84919
T_7	3795	9658	85551
T_8	3800	9228	85228
T_9	4517	9953	100286
T_{10}	5157	11300	114447
Mean	4088.3	9575.6	91342.3
CD	563.8	1311.1	10976.0
CV (%)	8.0	8.0	7.0
Significance	S	S	S

Table 21: Weed management in maize systems at Dharwad.

Treatments	Chick pea grain yield (kg/ha)
T_1	657.2
T_2	808.3
T_3	755.0
T_4	789.4
T_5	795.1
T_6	716.1
T_7	769.1
T_8	720.2
T_9	807.1
T_{10}	826.6
Mean	764.4
CD	45.7
CV (%)	3.5
Significance	S

Table 22: Weed management in *Rabi* maize-soybean cropping system at Banswara.

Treatments	Grain yield (kg/ ha)	Plants ('000/ ha)	Cobs ('000/ha)	Plant height (cm)
T_1	4833	55.6	47.2	209.7
T_2	11542	82.9	106.0	283.3
T_3	6222	70.4	63.4	250.0
T_4	7921	77.8	70.4	264.3
T_5	5676	57.4	51.9	230.0
T_6	6111	68.5	54.6	240.7
T_7	8815	81.5	83.3	278.7
T_8	11472	83.3	106.0	282.3
T_9	6287	63.0	57.9	248.3
T_{10}	6671	64.8	62.5	270.0
Mean	7555.1	70.5	70.3	255.7
CD	1232.8	12.2	9.8	13.1
CV (%)	9.5	10.1	8.1	3.0
Significance	S	S	S	S

Treatment details:

T1	Control (weedy check)
T2	Weed free
T3	Atrazine @ 1.5* kg a.i./ha preemegence
T4	Atrazine (750 g a.i./ha) + Pendemathalin (750 ml a.i./ha) preemegence
T5	Atrazine (1.5 kg a.i./ha) fb 2,4-D Amine 0.4 kg a.i./ha at 25 DAS as PoE
T6	Halosulfuron 90 g/ha at 25 DAS
T7	Atrazine @ 1.5 kg a.i./ha preemegence fb Halosulfuron 90 g/ha 25 DAS
T8	Tembotrione (Laudis) 120 ml a.i./ha PoE at 25 DAS
T9	Pendemathalin (1000 ml/ha) preemegence fb Atrazine (750 g a.i. /ha) + 2,4-D Amine 0.4 kg a.i./ha at 25 DAS as PoE
T10	Atrazine @ 1.5 kg/ha pre-emegence fb Tembotrione (Laudis) 120 ml a.i./ha PoE at 25 DAS

Table 23: Evaluation of new bio-fertilizers in *Kharif* maize and their residual effect on wheat at Dholi .

Treatments	Wheat grain yield (kg/ ha)	Days of flowering	Days of maturity	Plant height (cm)	Effective tillers/ m^2	Spike length (cm)	Spikelet's/ spike	Grains/ Spikes	1000 grain weight (g)	Net returns (Rs./ ha)	B:C Ratio	Moisture (%)
T_1	4478	88.7	128.0	79.8	292.0	11.6	39.7	38.3	44.8	59241	0.87	10.5
T_2	4266	87.0	128.0	79.5	290.0	11.4	38.7	38.0	46.1	57849	0.85	11.8
T_3	4296	87.0	128.0	79.6	289.3	11.3	41.0	40.0	45.5	64469	0.95	11.6
T_4	4311	88.0	127.0	79.9	292.0	11.3	41.3	40.3	47.5	55071	0.81	12
T_5	4296	87.7	126.0	79.2	298.3	11.3	42.3	40.7	47.8	63071	0.93	10.6
T_6	4388	87.7	127.7	78.3	298.3	11.5	41.0	40.0	47.3	69708	1.03	11.3
T_7	4509	88.3	128.3	78.7	294.0	11.4	39.0	38.3	46.7	61882	0.91	12
T_8	4433	87.0	127.7	78.0	292.3	11.2	40.7	39.3	46.4	62346	0.92	10.7
T_9	4220	88.3	127.3	78.7	301.0	11.2	41.3	40.0	47.7	63836	0.94	11.3
T_{10}	4220	87.3	126.3	77.8	297.0	11.5	40.3	39.0	45.7	54250	0.80	11.6
T_{11}	4388	88.7	127.0	78.5	295.7	11.0	39.7	38.3	46.4	61060	0.90	12.1
T_{12}	4342	88.7	126.7	80.4	297.7	11.2	40.0	39.0	47.1	65445	0.96	10.8
Mean	4345.6	87.9	127.3	79.0	294.8	11.3	40.4	39.3	46.6	61519.1	0.91	
CD	128.4	1.9	1.7	3.3	16.0	0.7	2.8	2.3	3.2	4593.7	0.07	
CV (%)	1.7	1.3	0.8	2.5	3.2	3.7	4.2	3.4	4.0	4.4	4.4	
Significance	S	NS	NS	NS	NS	NS	NS	NS	NS	S	S	

Table 24: Evaluation of new bio-fertilizer in maize (performance of Mustard in Rabi) at Kalyani.

Treatments	Mustard seed yield (kg/ha)	Mize equivalent yield (kg/ha)	Maize yield (kg/ha)
T_1	939	34622	6452
T_2	1027	38970	8170
T_3	1027	38772	7972
T_4	1098	40806	7866
T_5	974	36860	7640
T_6	1064	39481	7571
T_7	1067	41210	9200
T_8	1081	40665	8245
T_9	1090	42449	9749
T_{10}	1115	42865	9405
T_{11}	1229	48840	11980
T_{12}	1060	41032	9232
Mean	1064.1	40547.7	8623.6
CD	112.8	3812.8	1865.0
CV (%)	6.3	5.6	12.8
Significance	S	S	S

Table 25: Phosphorus liquid bio-fertilizers evaluation in maize at Dharwad.

Treatments	Chick pea grain yield (kg/ha)
T_1	661
T_2	684
T_3	690
T_4	703
T_5	600
T_6	567
T_7	592
T_8	596
T_9	572
T_{10}	598
T_{11}	661
T_{12}	701
Mean	635.4
CD	2.1
CV (%)	0.194
Significance	S

Treatment details:

T1	Control (Recommended N and K)
T2	PSB I
T3	PSB II
T4	NPK consortia
T5	60 kg P_2O_5/ha
T6	30 kg P_2O_5/ha + PSB I
T7	60 kg P_2O_5/ha + PSB I
T8	30 kg P_2O_5/ha + PSB II
T9	60 kg P_2O_5/ha + PSB II
T10	30 kg P_2O_5/ha + NPK consortia
T11	60 kg P_2O_5/ha + NPK consortia
T12	90 kg P_2O_5/ha

Table 26: Residual effect of potassium fertilizer doses in *Kharif* maize on wheat performance at Dholi.

Treatment	Wheat grain yield (kg/ha)	Effective tillers/m²	Plant height (cm)	Days of flowering	Days of maturity	Spike length (cm)	Spikelet's /spike	Grains/ spikes	1000 grain weight (g)
T_1	4289	381.0	75	88.7	129.3	11.3	41.3	41.0	40.9
T_2	4177	358.7	76	90.0	128.3	11.8	40.0	40.7	40.4
T_3	3996	370.3	76	88.0	129.0	11.3	39.7	40.0	40.6
T_4	4182	373.3	74	88.0	128.3	11.4	41.0	39.0	40.2
T_5	4188	355.0	74	88.0	129.0	11.8	42.3	39.7	38.5
T_6	4209	368.3	74	87.3	128.3	11.5	42.0	40.0	38.2
Mean	4173.60	367.78	74.83	88.33	128.72	11.51	41.06	40.06	39.79
CD	503.99	44.91	3.17	2.23	2.67	0.24	3.23	3.18	2.64
CV (%)	6.64	6.71	2.33	1.39	1.14	1.14	4.33	4.36	3.65
Significance	NS	NS	NS	NS	NS	S	NS	NS	NS

Treatment	Net returns (Rs./ha)	B:C Ratio	Moisture (%)
T_1	55295	0.81	12.4
T_2	60216	0.89	12.6
T_3	61751	0.91	13.0
T_4	76539	1.13	12.8
T_5	71477	1.05	13.2
T_6	73354	1.08	13.0
Mean	66438.73	0.98	
CD	11015.93	0.16	
CV (%)	9.11	9.11	
Significance	S	S	

Treatment details:

	Potassium (kg/ha)
T_1	0
T_2	30
T_3	60
T_4	90
T_5	120
T_6	150

Table 27: Ecological intensification for climate resilient maize-wheat system at Bajaura.

Treatment	Wheat grain yield (kg/ha)	% increase/ decrease in grain yield over RDF	% increase/ decrease in grain yield over absolute control
T_1	2682	(-) 31.96	(+) 38.89
T_2	4797	(+) 21.69	148.42
T_3	4352	(+)10.40	125.37
T_4	1931	(-)104.43	-
T_5	4075	(+)03.37	111.03
T_6	3987	(+)01.14	106.47
T_7	2704	(-)31.40	40.03
T_8	4641	(+)17.73	140.34
T9	39.42[b]	-	104.43
LSD (P=0.05)	5.01		

Table 28: Ecological intensification for climate resilient maize-oat system at Srinagar.

Treatments	Green fodder yield of oats (kg/ha)
T_1	24052
T_2	27090
T_3	24540
T_4	19703
T_5	20663
T_6	24293
T_7	20193
T_8	24253
Mean	23098.5
CD	1726.3
CV (%)	4.3
Significance	S

Table 29: Ecological intensification for climate resilient maize-wheat system at Karnal.

Treatments	Wheat grain yield (kg/ha)
T_1	7081
T_2	7132
T_3	6812
T_4	4472
T_5	7054
T_6	4820
T_7	6723
T_8	7031
Mean	6390.7
CD	622.4
CV (%)	5.6
Significance	S

Table 30: Ecological intensification for climate resilient maize-wheat-greengram system at Ludhiana.

Treatments	Wheat grain yield (kg/ha)	Straw yield (kg/ha)	Total tillers/m^2	Effective tillers/m^2	Spike length (cm)	Plant height (cm)
T_1	5771	7503	95.0	89.7	8.9	95.0
T_2	5877	7347	96.7	91.7	8.9	96.7
T_3	5382	8074	84.3	74.7	8.6	90.0
T_4	3649	5542	79.0	68.0	7.2	72.7
T_5	5267	7374	94.0	88.0	8.7	93.3
T_6	4968	7701	82.0	73.0	7.9	83.7
T_7	4677	6993	81.7	73.7	7.6	81.0
T_8	5204	7389	91.7	84.7	8.7	92.3
Mean	5099.5	7240.5	88.0	80.4	8.3	88.1
CD	980.2	1040.7	12.2	10.1	0.6	11.5
CV (%)	11.0	8.2	7.9	7.2	3.9	7.5
Significance	S	S	S	S	S	S

Table 31: Ecological Intensification for Climate resilient rice-maize system at Dholi.

Treatments	Maize grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Ear height (cm)	Days of 50% tasseling	Days of 50% silking
T_1	8176	5576	97.3	97.7	183.0	66.3	126.0	129.3
T_2	7737	5415	97.0	97.9	186.0	66.3	126.7	129.7
T_3	8171	5644	97.5	97.3	183.0	57.0	126.7	132.3
T_4	9951	6700	96.5	96.1	188.0	60.7	125.0	128.3
T_5	8834	5874	96.6	97.8	179.0	62.0	125.3	128.7
T_6	8587	5782	96.7	97.4	179.0	62.7	125.7	129.0
T_7	8594	5860	97.1	97.2	179.7	65.7	125.7	129.0
T_8	9243	6385	96.9	92.9	186.0	67.0	126.7	129.7
Mean	8661.6	5904.5	96.9	96.8	183.0	63.5	126.0	129.5
CD	976.4	666.4	2.8	5.0	11.2	8.3	1.8	3.4
CV (%)	6.4	6.4	1.7	3.0	3.5	7.4	0.8	1.5
Significance	S	S	NS	NS	NS	NS	NS	NS

Treatments	Days of maturity	Cob length (cm)	Cob Girth (cm)	Net returns (Rs./ha)	B:C Ratio	Moisture (%)
T_1	175.7	16.7	15.3	107213	1.58	22.0
T_2	175.3	16.7	15.7	99043	1.46	24.0
T_3	175.0	18.0	14.3	112435	1.66	23.0
T_4	175.7	18.7	14.3	134549	1.98	21.0
T_5	174.3	21.0	14.7	112993	1.66	20.0
T_6	176.0	18.0	13.7	114136	1.68	21.0
T_7	175.7	19.3	15.3	111278	1.64	22.0
T_8	176.3	19.3	14.3	116058	1.71	23.0
Mean	175.5	18.5	14.7	113463.2	1.7	
CD	2.0	2.5	3.1	10093.7	0.1	
CV (%)	0.7	7.8	11.9	5.1	5.1	
Significance	NS	S	NS	S	S	

Table 32: Ecological intensification for climate resilient rice-maize system at Kalyani.

Treatments	Grain yield (kg/ha)	Stover Yield (kg/ha)	Cobs (000'/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Days to maturity	100 Seed Weight (g)	Net Return (Rs./ha)	B:C Ratio
T_1	6626	8655	77.4	227.8	78.7	83.0	143.0	39.0	42323	1.8
T_2	10211	12243	82.2	274.4	80.0	85.0	143.7	46.0	90022	2.6
T_3	6483	8412	73.7	260.0	81.0	84.0	139.7	39.0	37615	1.7
T_4	5988	7778	75.4	241.8	81.0	85.0	144.0	36.0	35416	1.7
T_5	6852	8885	78.1	244.4	79.7	83.3	138.0	40.0	42999	1.8
T_6	7996	9919	80.3	252.2	79.3	83.0	144.3	40.7	59193	2.0
T_7	9051	11081	81.3	262.2	81.3	85.0	141.0	41.0	74178	2.3
T_8	6959	8977	79.1	244.4	82.3	86.0	142.3	40.7	44861	1.8
Mean	7520.9	9493.7	78.4	250.9	80.4	84.3	142.0	40.3	53325.9	2.0
CD	1027.5	1148.7	2.4	26.3	4.3	3.6	4.3	5.0	14491.4	0.3
CV (%)	7.8	6.9	1.8	6.0	3.1	2.4	1.7	7.1	15.5	7.5
Significance	S	S	S	S	NS	NS	NS	S	S	S

Treatments	Total uptake (kg/ha)			pH of soil after harvest	Available Content of soil (kg/ha)			Organic Carbon of soil (%)
	N	P	K		N	P	K	
T_1	120.3	25.7	91.5	6.8	212.3	21.0	264.0	0.5
T_2	231.9	61.0	230.7	7.2	209.7	19.0	251.7	0.5
T_3	111.5	23.5	78.0	6.9	216.0	20.0	263.0	0.6
T_4	87.6	18.6	66.6	7.2	215.0	19.7	255.0	0.5
T_5	127.9	26.1	113.3	7.2	233.3	19.0	274.3	0.6
T_6	157.7	40.6	142.6	7.1	226.0	20.3	277.3	0.6
T_7	186.8	51.3	182.8	7.3	252.3	27.3	285.0	0.7
T_8	132.8	28.8	123.7	7.2	233.0	21.0	276.3	0.6
Mean	144.6	34.4	128.6	7.1	224.7	20.9	268.3	0.6
CD	29.3	5.8	18.4	0.4	19.8	4.9	24.0	0.1
CV (%)	11.6	9.6	8.2	3.6	5.0	13.3	5.1	6.0
Significance	S	S	S	NS	S	S	NS	S

Treatments	Grass/m^2 after 25 DAS	Sedges/m^2 at 25 DAS	Broad leaves/m^2 at 25 DAS	% of TLB incidence
T_1	80.7	13.3	5.3	28.1
T_2	30.7	4.0	2.7	23.0
T_3	47.3	8.0	8.0	25.2
T_4	57.3	12.7	9.3	25.9
T_5	55.0	12.0	6.7	25.2
T_6	46.0	8.0	4.0	24.4
T_7	95.3	22.3	18.7	25.9
T_8	46.3	10.7	5.3	28.9
Mean	57.3	11.4	7.5	25.8
CD	30.7	9.7	7.5	5.4
CV (%)	30.6	48.5	57.5	11.9
Significance	S	S	S	NS

Table 33: Ecological intensification for climate resilient mungbean-maize system at Coimbatore.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Cobs ('000/ha)	Plant height (cm)	Net returns (Rs./ha)	B:C ratio	100 seed weight (g)	Weed density on 25 DAS - Grasses/ m²	Sedges /m²	BLW /m²
T_1	4904	8547	62.2	220.1	44657	2.19	36.5	66.3	4.0	188.7
T_2	5892	10488	61.6	231.3	59206	2.49	37.8	24.3	7.7	86.3
T_3	5714	9885	61.6	229.3	55933	2.41	37.5	38.0	16.3	125.0
T_4	4076	7174	61.0	212.7	35209	2.06	35.9	53.7	13.3	31.3
T_5	5257	9159	62.7	223.4	48352	2.22	36.8	47.3	2.0	158.3
T_6	4226	7225	60.7	216.7	33753	1.92	36.1	32.3	9.7	128.7
T_7	3591	6394	61.5	180.6	28542	1.90	35.3	118.3	3.7	142.3
T_8	5314	9547	61.6	225.8	52155	2.41	36.9	58.3	3.7	66.3
Mean	4871.8	8552.3	61.6	217.5	44725.8	2.20	36.6	54.8	7.5	115.9
CD	626.3	1261.7	3.5	32.8	8972.3	0.23	5.9	29.0	16.8	51.6
CV (%)	7.3	8.4	3.2	8.6	11.5	6.0	9.2	30.2	127.5	25.4
Significance	S	S	NS	NS	S	S	NS	S	NS	S

Treatment	Greengram uptake - Grain (kg/ha)			Greengram uptake - Haulm (kg/ha)			Maize uptake - Grain (kg/ha)			Maize uptake - Stover kg/ha)		
	N	P	K	N	P	K	N	P	K	N	P	K
T_1	17.7	2.6	2.7	23.2	3.2	17.5	59.6	15.8	23.3	43.1	15.0	78.6
T_2	26.0	4.5	5.1	28.2	5.0	21.7	80.6	22.0	32.5	57.9	22.7	101.4
T_3	25.3	4.2	4.8	27.1	4.5	20.4	75.8	20.4	30.6	53.8	19.7	94.1
T_4	14.4	1.5	1.6	17.3	1.8	12.9	45.4	11.1	17.3	31.0	9.8	55.1
T_5	21.1	3.1	3.5	23.0	3.3	17.3	65.7	17.4	25.9	46.9	16.1	85.0
T_6	23.6	3.2	3.2	23.7	3.0	17.8	49.6	12.9	19.7	35.3	12.1	65.3
T_7	11.6	1.5	1.4	15.1	1.8	11.4	41.5	10.7	16.2	29.3	8.7	56.3
T_8	23.5	3.7	4.1	24.7	3.8	18.8	69.1	18.5	27.1	50.4	18.3	90.1
Mean	20.4	3.0	3.3	22.8	3.3	17.2	60.9	16.1	24.1	43.5	15.3	78.2
CD	2.4	0.6	0.4	2.5	0.5	3.6	7.2	3.0	4.8	6.9	2.6	13.4
CV (%)	6.7	11.9	7.4	6.3	9.3	12.1	6.8	10.7	11.4	9.0	9.6	9.8
Significance	S	S	S	S	S	S	S	S	S	S	S	S

Treatment	Soil - Available (After greengram)			Soil – Available (After maize)			Greengram			
							Agronomic efficiency	Recovery efficiency (%)	Partial Nutrient Balance	Partial Factor Productivity
	N	P	K	N	P	K				
T_1	180.1	14.3	488.4	188.3	17.1	494.6	3.7	40.6	0.8	26.4
T_2	166.3	9.6	469.2	181.7	13.3	478.3	12.8	89.6	1.0	33.3
T_3	170.8	10.4	474.8	179.8	15.4	480.1	12.0	82.5	1.0	32.4
T_4	168.3	12.7	468.5	175.6	13.2	462.3	0.0	0.0	0.0	0.0
T_5	178.7	12.1	480.2	186.3	16.3	485.7	7.7	49.2	0.8	28.2
T_6	175.6	13.2	493.2	183.4	17.6	497.2	11.4	62.1	0.9	31.8
T_7	169.4	13.9	471.7	172.3	16.7	467.5	-4.1	-20.0	0.5	16.3
T_8	176.8	11.6	477.1	185.8	16.1	484.3	10.4	65.9	0.9	30.9
Mean	173.3	12.2	477.9	181.6	15.7	481.3	6.7	46.2	0.8	24.9
CD	24.2	4.6	71.2	29.8	4.4	69.3	4.3	11.2	0.1	3.8
CV (%)	8.0	21.5	8.5	9.4	15.8	8.2	36.2	13.9	7.2	8.8
Significance	NS	NS	NS	NS	NS	NS	S	S	S	S

Treatment	Maize - Agronomic efficiency	Maize - Recovery efficiency (%)	Maize - Partial Nutrient Balance	Maize - Partial Factor Productivity
T_1	6.2	19.8	0.5	36.9
T_2	16.5	56.5	0.7	53.6
T_3	14.9	48.3	0.7	52.0
T_4	0.0	0.0	0.0	0.0
T_5	10.8	33.0	0.6	47.8
T_6	1.4	7.7	0.5	38.4
T_7	-4.4	-5.0	0.4	32.6
T_8	11.2	39.3	0.6	48.3
Mean	7.1	24.9	0.5	38.7
CD	5.7	8.4	0.1	5.5
CV (%)	45.7	19.3	7.4	8.2
Significance	S	S	S	S

Table 34: Ecological intensification for climate resilient maize system at Vagarai.

Treatments	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants (000/ha)	Plant height (cm)	Cobs (000/ha)	Days to 50% tasseling	Days to 50% silking	100 grain weight (g)	Net returns (Rs./ha)	BC ratio
T_1	8537	10151	8513	115.7	199.4	110.0	59.7	61.3	37.3	80992	2.7
T_2	9754	12232	10841	66.5	217.2	65.2	58.7	59.7	40.0	81143	2.2
T_3	8211	10547	10523	64.1	212.3	62.0	59.0	60.0	38.0	64621	2.1
T_4	7459	9184	7554	65.1	207.4	61.3	59.3	61.3	38.0	64689	2.4
T_5	8161	10474	11095	63.3	206.1	63.6	58.7	60.0	39.3	57244	1.9
T_6	1758	2184	5988	66.8	184.0	62.0	59.0	61.3	34.7	-29790	0.5
T_7	8612	10644	10765	64.0	218.4	69.6	58.3	60.0	38.7	75085	2.4
T_8	8141	10061	9724	66.3	211.3	63.2	58.3	60.0	38.0	68033	2.3
Mean	7579.1	9434.7	9375.5	71.5	207.0	69.6	58.9	60.5	38.0	57752.2	2.1
CD	1504.0	2058.7	3128.0	8.0	27.9	10.1	1.0	1.1	9.2	22560.1	0.4
CV (%)	11.3	12.5	19.0	6.4	7.7	8.3	1.0	1.0	13.8	22.3	10.8
Significance	S	S	S	S	NS	S	NS	S	NS	S	S

Treatments	Soil pH	Soil EC (dS/m)	Available N (kg/ha)	Available P_2O_5 (kg/ha)	Available K_2O (kg/ha)	Nutrient Use Efficiency (NUE)	Agronomic Efficiency (AE)
T_1	7.3	0.3	105.0	13.8	368.3	28.5	3.6
T_2	7.1	0.7	110.7	15.8	355.0	21.3	5.0
T_3	7.1	0.6	109.7	15.0	413.3	18.0	1.6
T_4	7.3	0.4	107.0	21.5	438.3	0.0	0.0
T_5	7.3	0.4	110.0	12.7	361.7	17.9	1.5
T_6	7.1	0.6	116.3	14.0	420.0	3.8	-12.5
T_7	7.3	0.4	110.3	16.7	388.3	18.8	2.5
T_8	7.4	0.3	102.7	16.2	455.0	17.8	1.5
Mean	7.2	0.5	109.0	15.7	400.0	15.8	0.4
CD	0.3	0.4	7.0	10.1	140.6	3.5	3.6
CV (%)	2.2	48.7	3.7	36.9	20.1	12.6	498.3
Significance	NS	NS	S	NS	NS	S	S

Table 35: Ecological intensification for climate resilient rice-maize system at Hyderabad.

Treatment	Maize grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant Height (cm)	Days to 50% tasselin g	Days to 50% silking	Cob length (cm)	Cob girth (cm)	Grain rows/ cob	Grains/ row	100 seed weight
T_1	7854	9561	97.6	90.3	202.1	70.3	72.0	18.3	15.5	14.4	34.3	31.3
T_2	8726	10334	83.4	82.1	207.8	69.7	72.0	18.7	15.2	14.1	35.2	34.3
T_3	7631	8857	81.2	79.1	206.1	69.3	72.0	17.8	15.1	14.3	31.7	30.7
T_4	7061	7751	80.2	75.7	187.8	69.3	72.3	17.3	15.0	14.0	28.3	32.3
T_5	7061	8101	94.5	91.0	199.5	70.3	72.7	16.5	13.9	13.3	30.2	27.7
T_6	7695	8405	80.9	79.5	184.5	70.3	73.0	17.7	15.2	14.0	31.4	32.7
T_7	6426	7349	75.8	71.7	168.3	69.3	72.0	16.0	14.5	13.8	28.2	27.7
T_8	7219	8247	80.5	77.4	176.7	70.3	73.0	16.1	14.9	13.5	33.3	32.3
Mean	7459.2	8575.7	84.3	80.9	191.6	69.9	72.4	17.3	14.9	13.9	31.6	31.1
CD	744.1	1008.2	2.6	2.9	19.7	1.2	1.2	1.9	1.0	1.1	3.1	4.5
CV (%)	5.7	6.7	1.7	2.1	5.9	1.0	0.9	6.3	4.0	4.5	5.5	8.2
Significance	S	S	S	S	S	NS	NS	NS	NS	NS	S	NS

Treatment	Rice grain yield (kg/ha)	Straw yield (kg/ha)	Plant height (cm)	Tiller/hill	No. of hills	Tiller/m^2	Panicles/m^2
T_1	5157	5973	84.9	13.1	32.0	382.7	306.3
T_2	6061	7651	90.3	14.7	37.3	423.0	324.3
T_3	5014	6220	83.4	15.2	33.3	388.0	282.7
T_4	5172	6043	86.8	14.9	28.7	348.7	284.3
T_5	5322	6547	82.7	13.9	30.0	375.9	287.3
T_6	5013	7200	92.1	13.8	29.3	361.7	296.0
T_7	4204	5160	79.3	11.2	24.0	277.9	239.0
T_8	4696	6233	81.8	12.8	27.7	324.3	269.3
Mean	5080.0	6378.5	85.2	13.7	30.3	360.3	286.2
CD	463.0	966.7	7.8	3.5	7.6	74.4	33.3
CV (%)	5.2	8.7	5.3	14.4	14.2	11.8	6.6
Significance	S	S	S	NS	NS	S	S

Table 36: Ecological intensification for climate resilient soybean-maize system at Banswara.

Treatments	Grain yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)
T_1	6667	79.6	63.1	278.3
T_2	10370	83.3	97.8	286.1
T_3	8148	81.5	84.6	283.3
T_4	3815	68.5	39.8	215.0
T_5	6296	107.4	52.8	257.7
T_6	7026	83.3	74.6	271.0
T_7	5185	68.5	60.4	253.4
T_8	9174	81.5	91.7	282.2
Mean	7085.2	81.7	70.6	265.9
CD	979.6	9.7	11.1	14.4
CV (%)	7.9	6.8	9.0	3.1
Significance	S	S	S	S

Treatment details of Ecological intensification trial:

T1	Farmer practice *
T2	Ecological Intensification (EI)**
T3	EI minus tillage practice (Conventional tillage without residue retention in all crops)
T4	EI minus Nutrient management (Absolute control for nutrients in all crops)
T5	EI minus Planting density (Farmer adopted genotype and density in all crops)
T6	EI minus Water management (Complete rainfed for maize and farmers practice for rest of the crops)
T7	EI minus Weed management (No weed management in all crops)
T8	EI minus Disease and insect management (No management in all crops)

Table 37: Validation of Sensor based nitrogen management in maize and its succeeding effect on wheat at Pantnagar.

Treatments	Wheat grain yield (kg/ha)	Straw yield (kg/ha)	Tillers/m²	Plant height (cm)	1000-grain weight (g)	Net return (Rs./ha)	B:C ratio	MEY (kg/ha) of MW system	System net return (Rs./ha)	B:C ratio of system
T_1	5095	7571	368.3	86.8	42.0	55288	1.67	9131	76660	1.43
T_2	4810	7190	351.7	84.4	41.3	50331	1.52	10888	93793	1.53
T_3	5190	7952	331.7	87.4	41.0	56941	1.72	12180	101416	1.41
T_4	4810	7571	373.3	88.5	40.3	50331	1.52	11067	97304	1.61
T_5	4905	7286	368.3	86.8	42.0	51984	1.57	11051	96348	1.58
T_6	5190	7762	381.7	88.9	41.3	56941	1.72	11119	97296	1.59
T_7	4857	7810	361.7	87.4	42.0	51157	1.54	10573	89679	1.47
T_8	5238	7524	343.3	84.0	41.7	57767	1.74	10027	81792	1.34
T_9	4905	7381	348.3	83.8	41.7	51984	1.57	9599	75643	1.24
T_{10}	4952	7238	355.0	84.0	42.3	52810	1.59	11021	96020	1.57
T_{11}	5095	7667	356.7	88.7	41.3	55288	1.67	11120	97251	1.59
T_{12}	5238	7714	358.3	83.8	42.0	57767	1.74	12221	110443	1.73
Mean	5023.8	7555.6	358.2	86.2	41.6	54049.1	1.63	10833.0	92803.7	1.51
CD	923.8	1044.3	100.6	4.9	2.2	16028.5	0.48	1354.1	19295.6	0.32
CV (%)	10.9	8.2	16.6	3.3	3.2	17.5	17.5	7.38	12.28	12.5
Significance	NS	NS	NS	NS	NS	NS	NS	S	S	NS

Table 38: Validation of Sensor based nitrogen management in maize at Hyderabad.

Treatments	Grain yield (kg/ ha)	Stover yield (kg/ ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Days to maturity	Cob length (cm)	Cob Girth (cm)	Rows/ cob	Seeds/ row	Test weight (g) (100)
T_1	5752	6461	69.3	66.8	212.2	63.3	64.7	104.0	17.0	13.7	12.4	32.5	25.3
T_2	8178	8632	77.4	76.1	238.4	63.7	65.7	107.3	18.8	15.3	14.0	38.1	28.0
T_3	9090	9836	80.5	79.2	244.5	65.0	65.7	110.3	20.2	16.0	14.3	41.4	31.0
T_4	7813	8348	73.1	71.4	232.8	61.0	63.0	103.7	18.4	15.0	14.6	38.7	30.3
T_5	7524	8065	79.0	77.5	238.9	63.0	64.7	109.0	18.8	15.2	14.3	39.0	31.7
T_6	7678	8008	77.6	75.5	230.5	64.3	66.0	105.7	19.3	15.7	13.6	38.7	29.3
T_7	7421	7820	74.6	73.1	234.4	63.3	66.0	109.3	19.6	15.9	13.6	39.5	31.0
T_8	7378	7665	78.2	76.4	240.5	64.3	67.0	110.7	19.4	16.0	13.5	38.8	31.0
T_9	7448	7800	75.6	74.6	238.3	64.3	66.7	109.0	20.2	16.1	14.1	40.5	29.3
T_{10}	8744	9373	79.2	77.9	241.7	64.0	66.3	114.0	19.9	15.8	13.8	41.1	30.7
T_{11}	8558	9217	80.8	78.7	241.1	63.7	66.7	115.0	20.0	15.4	14.3	41.1	32.3
T_{12}	9925	10570	82.2	81.3	246.1	66.0	67.7	118.7	20.0	16.3	14.4	41.3	33.0
Mean	7959.0	8483.0	77.3	75.7	236.6	63.8	65.8	109.7	19.3	15.5	13.9	39.2	30.3
CD	688.2	662.4	4.6	4.1	7.2	1.7	2.5	3.4	1.0	0.4	0.6	1.7	1.6
CV (%)	5.1	4.6	3.5	3.2	1.8	1.6	2.2	1.9	3.1	1.4	2.7	2.5	3.0
Significance	S	S	S	S	S	S	NS	S	S	S	S	S	S

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Treatment details:

1	Control
2	RDF (1/3+1/3+/1/3 N splitting at basal, knee high and tasseling)
3	STCR (1/3+1/3+/1/3 N splitting at basal, knee high and tasseling)
4	Nutrient expert (1/3+1/3+/1/3 N splitting at basal, knee high and tasseling)
5	33% basal N + Green Seeker based N at knee high & tasseling stage
6	60% basal N + Green Seeker based N at knee high
7	70% basal N + Green Seeker based N at knee high
8	60% basal N + Green Seeker based N at tasseling stage
9	70% basal N + Green Seeker based N at tasseling stage
10	30% Basal N + 30% at 25 DAS + Green Seeker based N at tasseling stage
11	35% Basal N + 35% at 25 DAS + Green Seeker based N at tasseling stage
12	N rich strip (300:60:40) (1/3+1/3+/1/3 N splitting at basal, knee high and tasseling)

PATHOLOGY

CONTENTS

Abbreviations used:

1.	COIM	Coimbatore	7.	LUDH	Ludhiana
2.	DHAR	Dharwad	8.	MAND	Mandya
3.	DHOL	Dholi	9.	SABO	Sabour
4.	HYDE	Hyderabad	10.	SIKM	Sikkim
5.	KALY	Kalyani	11.	UDAI	Udaipur
6.	KARN	Karnal			

NWPZ: - North Hill Zone (Sikkim); North West Plain Zone (Karnal, Ludhiana); **NEPZ: -** North East Plain Zone (Dholi, Kalyani, Sabour); **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.	ChR	Charcoal rot
3.	CR	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 (AIRCPM) Plant Pathology trials for *Rabi* 2017-18 were finalized during 60th Annual Maize Workshop held at MPUAT, Udaipur. A total of 8 trials in *Rabi* 2017-18 were conducted in sick plot /artificially created epiphytotics at identified hot spot locations and testing centres *viz.*, Sikkim in NHZ, Ludhiana and Karnal in NWPZ; Dholi, Sabour and Kalyani in NEPZ; Dharwad, Coimbatore, Mandya, Hyderabad in PZ and Udaipur in CWZ. A total of 108 hybrids in *Rabi* season were screened against Turcicum leaf blight (TLB), Sorghum downy mildew (SDM), Charcoal rot (ChR), Fusarium stalk rot (FSR), Common rust (CR). Yield loss assessment trial was conducted at Dharwad (ChR). Disease survey was conducted at farmer's fields of northern Karnataka (PZ) to assess overall disease scenario during the crop season. Trials for management strategies to develop integrated disease management (IDM) against TLB and SDM in maize were conducted at Mandya centre. The summarized results of AICRPM Plant Pathology trials conducted during testing period are presented below:

Rabi 2017-18

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

A total of 32 genotypes were tested at multi-locations under this group (Table-1). Out of these, ADV 7043 and MM 2034 were promising genotypes showing resistant/ moderate resistant reactions against TLB, SDM, ChR and FSR diseases of maize at different hot spot locations.

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

In this maturity group, a total of 38 genotypes were evaluated at multi-locations (Table 2). Out of these, following seven entries *viz.*, BLH-111, BLH-135, CMH1818, IMHSB-17R-6, IMHSB-17R-10, IMHSB-17R-12 and IMHSB-17R-14 were resistant/ moderate resistant against TLB, SDM, ChR and FSR diseases of maize at different hot spot locations.

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

A total of 26 genotypes of late maturity were evaluated at multi-locations (Table 3). Out of these, ADV 7037 and ADV 7139 showed resistant/ moderate resistant reactions against TLB, SDM, ChR and FSR diseases of maize at different hot spot locations.

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

Multi-location testing of 8 genotypes under AVT I & II (medium maturity) group and, of 4 genotypes under QPM-I-II-II group were carried out against TLB, SDM, ChR and FSR diseases of maize at hot spot locations. Promising genotypes with disease reactions are depicted in Table 4 and Table 5, respectively.

MPT 6. Assessment of avoidable yield losses due to ChR at Dharwad

Yield loss assessment trial for charcoal rot disease of maize was conducted at Dharwad centre using paired plot technique under artificially created epiphytotics (Table 6). Yield losses up to 22.35 per cent were observed in 900M Super (test hybrid) due to ChR disease of maize.

MPT 7. Survey and surveillance of maize diseases in northern Karnataka

To know the overall scenario of maize diseases in northern Karnataka, surveys were conducted at 138 farmer's maize fields of Arabhavi, Bagalkot, Dharwad, Haveri, Gokak and Kalaghatagi places. The incidence of charcoal stalk rot was observed from 9.7 to 21.9 per cent (Table 7).

MPT 8. Development of management strategies for maize diseases

Efficacy of bio-extracts, bio-agents, fungicides and resistance inducers were tested at Mandya centre against TLB and SDM diseases of maize under artificially created epiphytotics (Table 8, 9, 10, 11 and 12).

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

S. No.	Genotype	TLB (1-9)		ChR (1-9)							FSR (1-9)		SDM (%)	
		NEPZ		NWPZ		PZ					CWZ		PZ	
		DHOL	Reaction	LUDH	Reaction	COIM	DHAR	HYDE	Av. Score	Reaction	UDAI	Reaction	MAND	Reaction
1	ADV 7043	4.1	MR	5.0	MR	3.0	3.4	3.3	3.2	MR	4.1	MR	20	MR
2	ADV 7164	4.2	MR	4.4	MR	3.8	6.9	1.9	4.2	MR	2.2	R	60	S
3	Bio 302	3.8	MR	5.0	MR	3.9	3.0	5.3	4.1	MR	1.8	R	33	MS
4	DAS-MH-905	6.4	MS	5.4	MS	3.1	6.2	4.6	4.6	MR	3.0	R	69	S
5	DAS-MH-906	6.8	MS	5.3	MS	3.9	6.2	2.5	4.2	MR	3.8	MR	100	S
6	DAS-MH-907	6.1	MS	4.4	MR	3.4	5.5	3.1	4.0	MR	2.8	R	100	S
7	DKC9195 (IS8508)	1.7	R	3.7	MR	4.4	5.6	5.8	5.3	MS	3.6	MR	45	MS
8	DKC9197 (IS8638)	4.8	MR	5.7	MS	3.5	6.3	4.6	4.8	MR	3.0	R	82	S
9	GK3212	3.2	MR	5.9	MS	4.9	3.8	7.0	5.2	MS	2.1	R	49	MS
10	GK3214	2.7	R	6.4	MS	3.3	4.4	6.4	4.7	MR	4.5	MR	42	MS
11	IMHSB-17R-13	1.8	R	6.1	MS	3.2	4.6	4.1	4.0	MR	2.5	R	36	MS
12	IMHSB-17R-18	2.8	R	5.5	MS	1.7	5.3	2.8	3.3	MR	5.8	MS	41	MS
13	IMHSB-17R-21	4.7	MR	4.2	MR	2.5	4.1	2.0	2.9	R	1.5	R	70	S
14	IMHSB-17R-22	2.6	R	4.3	MR	4.1	4.2	2.8	3.7	MR	2.6	R	74	S
15	IMHSB-17R-23	5.1	MR	5.2	MS	3.1	6.8	1.5	3.8	MR	2.9	R	52	S
16	KH-2595	4.6	MR	5.9	MS	3.2	4.8	4.0	4.0	MR	1.4	R	68	S
17	KMH25K45(C)	7.1	MS	5.8	MS	3.4	7.6	4.8	5.3	MS	1.7	R	63	S
18	Kh-2597	5.9	MS	6.4	MS	2.7	6.8	5.7	5.1	MR	3.0	R	60	S
19	MFH17-31	7.9	S	4.3	MR	2.0	6.8	6.5	5.1	MR	2.9	R	76	S
20	MFH17-32	6.6	MS	4.8	MR	1.4	7.5	6.6	5.1	MR	1.9	R	93	S
21	MFH17-33	5.8	MS	6.4	MS	3.6	6.4	2.7	4.2	MR	3.3	MR	100	S
22	MM2034	4.1	MR	5.3	MS	2.2	5.4	3.8	3.8	MR	2.8	R	2	R
23	MM9333	3.5	MR	4.3	MR	2.1	8.8	2.6	4.5	MR	1.6	R	43	MS
24	NMH713(C)	1.7	R	4.8	MR	3.2	4.1	4.3	3.9	MR	2.8	R	68	S
25	P3522 (C)	6.0	MS	4.7	MR	1.6	7.8	7.1	5.5	MS	4.4	MR	71	S
26	PM17201L	4.6	MR	4.6	MR	5.5	5.1	4.8	5.1	MR	2.7	R	79	S
27	PM17202L	3.6	MR	3.9	MR	2.0	4.3	8.3	4.8	MR	3.3	MR	96	S
28	PM17203L	2.5	R	3.1	R	3.0	5.3	7.1	5.1	MR	2.8	R	57	S

Contd.

Table-1

S. No.	Genotype	TLB (1-9)		ChR (1-9)							FSR (1-9)		SDM (%)	
		NEPZ		NWPZ		PZ					CWZ		PZ	
		DHOL	Reaction	LUDH	Reaction	COIM	DHAR	HYDE	Av. Score	Reaction	UDAI	Reaction	MAND	Reaction
29	**PM17204L**	3.9	**MR**	5.6	**MS**	2.5	5.7	3.3	3.8	**MR**	5.0	**MR**	63	**S**
30	**PM17205L**	4.0	**MR**	4.3	**MR**	2.9	5.6	6.1	4.9	**MR**	2.9	**R**	96	**S**
31	**PM17206L**	3.2	**MR**	5.0	**MR**	3.4	4.1	4.5	4.0	**MR**	2.8	**R**	98	**S**
32	**PM17208L**	2.2	**R**	4.9	**MR**	3.1	3.7	5.3	4.0	**MR**	2.8	**R**	76	**S**
33	**REH2016-3**	6.4	**MS**	5.8	**MS**	3.5	4.6	2.5	3.5	**MR**	3.3	**MR**	51	**S**
34	**Rasi 3486(W)**	4.8	**MR**	4.9	**MR**	1.3	6.8	4.8	4.3	**MR**	4.3	**MR**	89	**S**
35	**Rasi 4118**	4.4	**MR**	5.6	**MS**	4.1	5.1	2.5	3.9	**MR**	2.3	**R**	59	**S**
Z1	**Location Mean**	4.4		5.1		3.1	5.5	4.4	4.3		3.0		66	
Z2	**CD (5%)**	2.1		1.7		2.5	3.6	2.6	2.9		2.9		42	
Z3	**CD (1%)**	2.8		2.4		3.3	4.8	3.5	3.9		3.9		57	
SC	**Sus. Check**	**8.4**	**S**	**6.9**	**MS**	**6.9**	**8.0**	**7.7**	**7.5**	**S**	**7.5**	**S**	**87.5**	**S**
RC	**Res. Check**	**-**	**-**	**4.0**	**MR**	**1.1**	**-**	**1.4**	**1.3**	**R**	**2.5**	**R**	**21.9**	**MR**

Sus. Check:- TLB:- CML 186 (Dholi); **ChR:-** FR632 H 100 (Ludhiana), CM-501 (Coimbatore, Hyderabad); G-25 (Dharwad); **FSR:-** Surya (Udaipur); **SDM:-** CM 500 (Mandya)

Res. Check:- ChR:- LET DR99 (Ludhiana); CoH 6 (Coimbatore); JCY-2-7 (Hyderabad); **FSR:-** PMH-3 (Udaipur); **SDM:-** NAH-1137 (Mandya)

** **Data of Kalyani (NEPZ) and Mandya (PZ) centres for TLB disease is not considered due to low disease pressure observed at respective centres in susceptible checks.**

*** **Data of Karnal (NWPZ) for common rust and Sabour (NEPZ) centres for BLSB diseases are rejected due to non-occurrence of respective diseases at respective centres.**

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

S. No.	Genotype	TLB (1-9)		ChR (1-9)							FSR (1-9)		SDM (%)	
		NEPZ		NWPZ		PZ					CWZ		PZ	
		DHOL	Reaction	LUDH	Reaction	COIM	DHAR	HYDE	Av. Score	Reaction	UDAI	Reaction	MAND	Reaction
1	AH-8070	4.5	MR	3.8	MR	3.2	5.7	5.7	4.9	MR	3.2	MR	63	S
2	AH-8071R	5.8	MS	3.3	MR	3.3	6.2	5.7	5.1	MR	3.2	MR	21	MR
3	AH-8181	5.8	MS	5.7	MS	2.8	6.4	3.4	4.2	MR	2.1	R	41	MS
4	BAUMH 11-16-1	3.8	MR	5.6	MS	4.2	4.5	7.1	5.3	MS	3.2	MR	68	S
5	BIO9544 (C)	3.3	MR	2.7	R	3.0	5.4	2.7	3.7	MR	2.7	R	1	R
6	BLH-111	4.3	MR	5.7	MS	2.3	5.4	3.6	3.7	MR	2.7	R	22	MR
7	BLH-124	4.3	MR	2.1	R	3.4	6.3	2.5	4.1	MR	2.5	R	47	MS
8	BLH-135	4.1	MR	5.8	MS	3.8	4.6	1.6	3.3	MR	3.4	MR	19	MR
9	BRM 12-7	6.8	MS	6.0	MS	6.3	8.0	7.2	7.2	S	2.8	R	100	S
10	Bisco-X1 (C)	.	.	2.2	R	4.7	6.0	7.0	5.9	MS	1.9	R	34	MS
11	CMH 9999	3.8	MR	4.8	MR	3.2	7.9	2.8	4.6	MR	1.9	R	91	S
12	CMH1818	3.8	MR	4.8	MR	2.2	6.7	3.8	4.2	MR	1.6	R	5	R
13	DH-291	4.8	MR	3.0	R	3.1	3.8	7.1	4.7	MR	2.8	R	70	S
14	DH-296	5.5	MS	4.7	MR	3.3	6.1	5.5	5.0	MR	4.2	MR	67	S
15	DHM117(C)	4.8	MR	6.2	MS	4.1	5.2	1.0	3.4	MR	2.5	R	51	S
16	IH-0966	6.8	MS	7.7	S	3.3	5.9	5.9	5.0	MR	2.1	R	82	S
17	IH-1208	6.8	MS	5.7	MS	3.3	7.0	8.2	6.2	MS	3.6	MR	91	S
18	IMHSB-17R-1	5.1	MR	5.4	MS	2.9	8.3	3.0	4.7	MR	2.1	R	100	S
19	IMHSB-17R-10	4.6	MR	4.4	MR	2.7	5.3	3.4	3.8	MR	3.6	MR	25	MR
20	IMHSB-17R-11	4.0	MR	4.5	MR	2.4	3.7	6.4	4.1	MR	0.7	R	64	S
21	IMHSB-17R-12	3.7	MR	5.2	MS	2.5	5.0	3.0	3.5	MR	3.1	R	21	MR
22	IMHSB-17R-14	4.5	MR	3.5	MR	3.5	3.8	5.5	4.3	MR	3.9	MR	18	MR
23	IMHSB-17R-15	3.0	R	4.0	MR	3.4	4.8	6.5	4.9	MR	2.9	R	39	MS
24	IMHSB-17R-16	3.1	R	3.6	MR	3.0	6.5	3.0	4.2	MR	3.3	MR	90	S
25	IMHSB-17R-17	5.8	MS	3.3	MR	2.7	6.4	5.3	4.8	MR	3.0	R	88	S
26	IMHSB-17R-19	7.3	S	5.7	MS	3.6	5.5	6.5	5.2	MS	3.3	MR	60	S

Contd.

Table-2

S. No.	Genotype	TLB (1-9)		ChR (1-9)							FSR (1-9)		SDM (%)	
		NEPZ		NWPZ		PZ					CWZ		PZ	
		DHOL	Reaction	LUDH	Reaction	COIM	DHAR	HYDE	Av. Score	Reaction	UDAI	Reaction	MAND	Reaction
27	**IMHSB-17R-2**	4.0	**MR**	5.0	**MR**	3.0	7.5	6.6	5.7	**MS**	0.5	**R**	79	**S**
28	**IMHSB-17R-20**	6.3	**MS**	6.0	**MS**	2.1	6.7	3.9	4.2	**MR**	3.5	**MR**	10	**R**
29	**IMHSB-17R-3**	5.8	**MS**	6.6	**MS**	2.4	7.7	5.3	5.1	**MR**	3.2	**MR**	71	**S**
30	**IMHSB-17R-4**	3.7	**MR**	5.6	**MS**	1.5	5.6	4.6	3.9	**MR**	3.6	**MR**	79	**S**
31	**IMHSB-17R-5**	7.3	**S**	4.1	**MR**	3.3	5.5	2.8	3.9	**MR**	1.7	**R**	100	**S**
32	**IMHSB-17R-6**	4.3	**MR**	5.3	**MS**	3.7	3.6	5.8	4.4	**MR**	1.8	**R**	22	**MR**
33	**IMHSB-17R-7**	4.5	**MR**	2.2	**R**	4.1	3.2	2.1	3.1	**R**	1.5	**R**	35	**MS**
34	**IMHSB-17R-8**	4.3	**MR**	4.7	**MR**	1.5	3.4	4.6	3.2	**MR**	2.5	**R**	64	**S**
35	**IMHSB-17R-9**	3.8	**MR**	5.1	**MR**	3.7	8.3	5.3	5.8	**MS**	2.7	**R**	90	**S**
36	**MEH17-11**	8.5	**S**	6.2	**MS**	2.1	6.6	6.4	5.0	**MR**	2.3	**R**	99	**S**
37	**MMH17-21**	5.1	**MR**	3.4	**MR**	1.9	7.5	5.8	5.1	**MR**	1.4	**R**	74	**S**
38	**MMH17-22**	2.8	**R**	5.1	**MR**	4.3	5.4	5.3	5.0	**MR**	2.9	**R**	39	**MS**
39	**PM17207M**	6.8	**MS**	3.4	**MR**	5.0	4.3	6.6	5.3	**MS**	2.0	**R**	70	**S**
40	**REH2016-1**	6.6	**MS**	4.9	**MR**	5.0	5.4	8.4	6.3	**MS**	2.0	**R**	82	**S**
41	**REH2016-2**	5.1	**MR**	5.7	**MS**	4.1	8.1	2.9	5.0	**MR**	3.2	**MR**	52	**S**
42	**Seed Tech(Filler)**	4.8	**MR**	3.8	**MR**	4.2	7.6	7.1	6.3	**MS**	2.5	**R**	52	**S**
Z1	**Location Mean**	5.0		4.7		3.3	5.9	4.9	4.7		2.6		57	
Z2	**CD (5%)**	2.1		2.2		2.8	3.2	2.7	2.9		2.0		36	
Z3	**CD (1%)**	2.9		2.9		3.7	4.3	3.7	3.9		2.7		48	
SC	**Sus. Check**	**8.3**	**S**	**7.2**	**S**	**7.0**	**8.0**	**7.9**	**7.6**	**S**	**7.5**	**S**	**78.0**	**S**
RC	**Res. Check**	**-**		**3.7**	**MR**	**1.2**	**-**	**1.5**	**1.4**	**R**	**2.0**	**R**	**23.4**	**MR**

Sus. Check:- TLB:- CML 186 (Dholi); **ChR:-** FR632 H 100 (Ludhiana), CM-501 (Coimbatore, Hyderabad); G-25 (Dharwad); **FSR:-** Surya (Udaipur); **SDM:-** CM 500 (Mandya)

Res. Check:- ChR:- LET DR99 (Ludhiana); CoH 6 (Coimbatore); JCY-2-7 (Hyderabad); **FSR:-** PMH-3 (Udaipur); **SDM:-**NAH-1137 (Mandya)

** **Data of Kalyani (NEPZ) and Mandya (PZ) centres for TLB disease is not considered due to low disease pressure observed at respective centres in susceptible checks.**

*** **Data of Karnal (NWPZ) for common rust and Sabour (NEPZ) centres for BLSB diseases are rejected due to non-occurrence of respective diseases at respective centres.**

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

S. No.	Genotype	TLB (1-9)				ChR (1-9)							FSR (1-9)		SDM (%)	
		NHZ		NEPZ		NWPZ		PZ					CWZ		PZ	
		SIKM	Reaction	DHOL	Reaction	LUDH	Reaction	COIM	DHAR	HYDE	Av. Score	Reaction	UDAI	Reaction	MAND	Reaction
1	ADV7037	4.2	MR	3.5	MR	4.4	MR	2.7	4.9	2.9	3.5	MR	2.2	R	2	R
2	ADV7139	4.7	MR	3.8	MR	4.1	MR	3.9	4.4	3.0	3.8	MR	2.1	R	4	R
3	BLH-113	5.2	MS	5.1	MR	4.3	MR	3.6	6.5	6.9	5.6	MS	2.6	R	67	S
4	BLH-116	6.1	MS	4.1	MR	3.2	MR	3.7	5.1	4.8	4.5	MR	2.6	R	88	S
5	Bio 9681 (C)	5.3	MS	5.7	MS	4.7	MR	4.2	8.4	5.9	6.2	MS	2.2	R	69	S
6	Bio305	5.2	MS	6.5	MS	3.6	MR	3.8	3.1	5.6	4.2	MR	3.7	MR	89	S
7	Buland (C)	4.9	MR	4.5	MR	5.0	MR	2.2	7.9	4.5	4.8	MR	2.7	R	78	S
8	CMH-2829	4.2	MR	4.8	MR	6.2	MS	3.5	6.4	7.5	5.8	MS	2.1	R	70	S
9	DAS-MH-903	5.1	MR	2.2	R	4.4	MR	3.5	6.3	2.4	4.1	MR	0.9	R	93	S
10	DAS-MH-904	6.9	MS	4.5	MR	5.5	MS	1.9	4.4	4.2	3.5	MR	2.7	R	100	S
11	DKC 9181	4.9	MR	2.6	R	4.3	MR	3.4	4.7	4.1	4.1	MR	2.4	R	99	S
12	DKC 9188	4.1	MR	3.5	MR	3.9	MR	3.7	6.6	2.6	4.3	MR	3.4	MR	84	S
13	GK3208	4.6	MR	3.3	MR	3.4	MR	3.4	5.8	5.7	5.0	MR	3.4	MR	66	S
14	HT 16047	4.7	MR	3.5	MR	4.9	MR	3.9	4.9	6.5	5.1	MR	3.2	MR	92	S
15	HT 16052	4.7	MR	2.5	R	3.7	MR	4.3	7.3	7.4	6.3	MS	3.0	R	95	S
16	JH273	4.2	MR	4.8	MR	4.3	MR	1.9	5.0	3.4	3.5	MR	3.1	R	87	S
17	MM2033	4.9	MR	6.5	MS	4.7	MR	3.8	4.4	1.5	3.2	MR	1.5	R	38	MS
18	P3522 (C)	5.9	MS	5.7	MS	3.7	MR	4.1	6.0	5.7	5.3	MS	2.9	R	97	S
19	PM16201L	3.4	MR	4.5	MR	4.5	MR	3.2	4.4	5.2	4.3	MR	2.0	R	96	S
20	PM16202L	4.8	MR	3.6	MR	4.5	MR	3.7	6.5	5.3	5.1	MR	2.6	R	64	S
21	PM16203L	3.8	MR	5.7	MS	3.3	MR	4.3	3.7	5.7	4.6	MR	1.9	R	87	S
22	PM16204L	5.7	MS	2.1	R	5.0	MR	3.9	7.1	6.6	5.9	MS	2.9	R	62	S
23	PM16205L	3.5	MR	3.6	MR	4.3	MR	3.2	6.1	5.4	4.9	MR	2.1	R	93	S
24	PM16206L	6.3	MS	3.5	MR	6.2	MS	4.0	7.9	5.9	6.0	MS	2.0	R	95	S
25	PM16207L	6.7	MS	3.0	R	4.6	MR	3.6	6.6	3.7	4.6	MR	3.9	MR	61	S
26	Rasi 1107	4.4	MR	3.0	R	5.7	MS	3.7	6.4	2.0	4.0	MR	2.2	R	79	S
27	Rasi 2015 (P2)	4.2	MR	2.5	R	5.6	MS	2.7	4.4	4.1	3.7	MR	2.9	R	75	S
28	Seedtech 2324 (C)	4.4	MR	4.3	MR	4.6	MR	2.7	6.3	3.4	4.1	MR	4.1	MR	88	S
29	Super3366	4.4	MR	3.5	MR	5.7	MS	3.2	6.8	8.1	6.0	MS	4.0	MR	70	S
30	VNR 32994	4.4	MR	5.3	MS	6.4	MS	4.1	3.4	2.2	3.2	MR	2.9	R	95	S

Contd.

Table-3

S. No.	Genotype	TLB (1-9)				ChR (1-9)							FSR (1-9)		SDM (%)	
		NHZ		NEPZ		NWPZ		PZ					CWZ		PZ	
		SIKM	Reaction	DHOL	Reaction	LUDH	Reaction	COIM	DHAR	HYDE	Av. Score	Reaction	UDAI	Reaction	MAND	Reaction
Z1	**Location Mean**	4.9		4.1		4.6		3.5	5.7	4.7	4.6		2.7		76	
Z2	**CD (5%)**	2.0		2.5		1.9		1.5	2.3	2.1	2.0		1.5		40	
Z3	**CD (1%)**	2.8		3.3		2.5		2.0	3.1	2.9	2.7		2.0		54	
SC	**Sus. Check**	**8.4**	**S**	**8.2**	**S**	**7.4**	**S**	**7.3**	**8.0**	**7.7**	**7.7**	**S**	**8.7**	**S**	**80.3**	**S**
RC	**Res. Check**	**1.6**	**R**	**-**	**-**	**4.0**	**MR**	**1.3**	**-**	**1.5**	**1.4**	**R**	**2.5**	**R**	**15.3**	**MR**

Sus. Check:- TLB:- Vivek Sankul 35 (Sikkim); CML 186 (Dholi); **ChR:-** FR632 H 100 (Ludhiana), CM-501 (Coimbatore, Hyderabad); G-25 (Dharwad); **FSR:-** Surya (Udaipur); **SDM:-** CM 500 (Mandya)

Res. Check:- TLB:- Pahenlo makkai (Sikkim); **ChR:-** LET DR99 (Ludhiana); CoH 6 (Coimbatore); JCY-2-7 (Hyderabad); **FSR:-** PMH-3 (Udaipur); **SDM:-** NAH-1137 (Mandya)

** **Data of Kalyani (NEPZ) and Mandya (PZ) centres for TLB disease is not considered due to low disease pressure observed at respective centres in susceptible checks.**

*** **Data of Karnal (NWPZ) for common rust and Sabour (NEPZ) centres for BLSB diseases are rejected due to non-occurrence of respective diseases at respective centres.**

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

S. No.	Genotype	TLB (1-9)				ChR (1-9)					FSR (1-9)		SDM (%)	
		NHZ		NEPZ		PZ					CWZ		PZ	
		SIKM	Reaction	DHOL	Reaction	COIM	DHAR	HYDE	Av. Score	Reaction	UDAI	Reaction	MAND	Reaction
1	100K-16	4.5	MR	5.0	MR	2.7	4.1	4.9	3.9	MR	3.0	R	56	S
2	100K-18	4.6	MR	6.0	MS	2.1	8.0	5.5	5.2	MS	3.8	MR	46	MS
3	BLH-109	5.5	MS	2.5	R	4.4	5.4	5.1	4.9	MR	3.0	R	79	S
4	Bio 9544 (C)	2.4	R	4.0	MR	3.7	6.8	4.2	4.9	MR	3.0	R	0	R
5	Bio 9637 (C)	3.0	R	4.0	MR	2.6	4.4	5.3	4.1	MR	4.3	MR	28	MS
6	DHM 117 (C)	2.7	R	6.0	MS	2.8	5.8	4.1	4.2	MR	3.3	MR	78	S
7	DKC 8171	4.4	MR	3.0	R	3.9	3.8	5.2	4.3	MR	2.8	R	71	S
8	DKC 8185	3.8	MR	3.5	MR	3.0	5.4	4.7	4.4	MR	2.8	R	83	S
9	IM8013	3.7	MR	2.5	R	3.8	5.5	5.3	4.8	MR	3.5	MR	76	S
10	IMHBG-16R-6	2.9	R	5.5	MS	2.3	4.4	4.8	3.8	MR	2.0	R	6	R
11	VaMH 12013	2.8	R	3.5	MR	3.1	4.5	4.6	4.1	MR	3.5	MR	54	S
Z1	Location M	3.7		4.1		3.1	5.3	4.9	4.4		3.2		52	
Z2		1.4		3.6		2.2	2.9	1.2	2.1		3.4		54	
Z3	CD (1%)	2.0		5.1		3.1	4.1	1.7	3.0		4.8		77	
SC	Sus. Check	8.4	S	8.5	S	7.9	8.0	7.8	7.9	S	8.3	S	79.3	S
RC	Res. Check	1.6	R	-	-	1.1	-	1.5	1.3	R	3.5	MR	19.2	MR

Sus. Check:- TLB:- Vivek Sankul 35 (Sikkim); CML 186 (Dholi); **ChR:-** CM-501 (Coimbatore, Hyderabad); G-25 (Dharwad); **FSR:-** Surya (Udaipur); **SDM:-** CM 500 (Mandya)

Res. Check:- TLB:- Pahenlo makkai (Sikkim); **ChR:-** CoH 6 (Coimbatore); JCY-2-7 (Hyderabad); **FSR:-** PMH-3 (Udaipur); **SDM:-** NAH-1137 (Mandya)

** **Data of Ludhiana (NWPZ) centre for ChR disease; Kalyani (NEPZ) and Mandya (PZ) centres for TLB diseases are not considered due to low disease pressure observed at respective centres in susceptible checks.**

*** **Data of Karnal (NWPZ) for common rust and Sabour (NEPZ) centres for BLSB diseases are rejected due to non-occurrence of respective diseases at respective centres.**

Table 5. Screening of QPM-I-II-III maize hybrids

S. No.	Genotype	TLB (1-9)				ChR (1-9)							FSR (1-9)		SDM (%)	
		NHZ		NEPZ		NWPZ		PZ					CWZ		PZ	
		SIKM	Reaction	DHOL	Reaction	LUDH	Reaction	COIM	DHAR	HYDE	Av. Score	Reaction	UDAI	Reaction	MAND	Reaction
1	**HQPM-27**	1.6	**R**	5.0	**MR**	5.5	**MS**	2.9	5.7	4.9	4.5	**MR**	3.7	**MR**	78	**S**
2	**HQPM1 (C)**	2.2	**R**	5.0	**MR**	4.2	**MR**	2.8	6.5	4.3	4.5	**MR**	4.2	**MR**	79	**S**
3	**HQPM4 (C)**	1.2	**R**	3.0	**R**	5.5	**MS**	2.9	5.3	4.4	4.2	**MR**	3.3	**MR**	77	**S**
4	**HQPM7(C)**	1.8	**R**	6.0	**MS**	5.7	**MS**	3.0	8.2	4.2	5.1	**MR**	3.5	**MR**	86	**S**
5	**IHQ-0922**	6.7	**MS**	4.7	**MR**	5.7	**MS**	2.9	7.7	5.1	5.2	**MS**	4.0	**MR**	87	**S**
6	**MMHQPM-10-11-15**	2.1	**R**	4.7	**MR**	5.3	**MS**	3.1	5.2	4.9	4.4	**MR**	2.2	**R**	83	**S**
7	**MMHQPM-16-1213**	2.3	**R**	6.0	**MS**	5.3	**MS**	2.4	6.6	4.6	4.5	**MR**	2.8	**R**	100	**S**
Z1	**Location Mean**	2.6		4.9		5.3		2.9	6.5	4.6	4.6		3.4		84	
Z2	**CD (5%)**	0.6		3.4		2.3		1.4	3.1	0.9	1.8		2.7		39	
Z3	**CD (1%)**	0.8		4.8		3.2		2.0	4.3	1.4	2.6		3.7		55	
SC	**Sus. Check**	**8.4**	**S**	**8.7**	**S**	**6.6**	**MS**	**6.6**	**8.0**	**7.7**	**7.4**	**S**	**7.5**	**S**	**80.3**	**S**
RC	**Res. Check**	**1.6**	**R**	**-**	**-**	**3.5**	**MR**	**1.1**	**-**	**1.6**	**1.4**	**R**	**3.0**	**R**	**19.3**	**MR**

Sus. Check:- TLB:- Vivek Sankul 35 (Sikkim); CML 186 (Dholi); **ChR:-** FR632 H 100 (Ludhiana), CM-501 (Coimbatore, Hyderabad); G-25 (Dharwad); **FSR:-** Surya (Udaipur); **SDM:-** CM 500 (Mandya)

Res. Check:- TLB:- Pahenlo makkai (Sikkim); **ChR:-** LET DR99 (Ludhiana); CoH 6 (Coimbatore); JCY-2-7 (Hyderabad); **FSR:-** PMH-3 (Udaipur); **SDM:-** NAH-1137 (Mandya)

** **Data of Kalyani (NEPZ) and Mandya (PZ) centres for TLB disease is not considered due to low disease pressure observed at respective centres in susceptible checks.**

*** **Data of Karnal (NWPZ) for common rust and Sabour (NEPZ) centres for BLSB diseases are rejected due to non-occurrence of respective diseases at respective centres.**

Table 6. Assessment of avoidable yield losses due to ChR at Dharwad

Replication	Treatment	Disease Rating scale (1-9)	PDI	Grain Yield (kg/ha)	Per cent loss in yield
R1	Protected	3.6	35.25	6320.75	22.31
	Unprotected	7.2	67.46	4910.53	
R2	Protected	3.8	42.20	6215.58	24.48
	Unprotected	7.4	72.46	4993.16	
R3	Protected	3.5	37.82	6588.50	22.06
	Unprotected	7.0	68.66	5134.67	
R4	Protected	3.6	39.56	6065.72	21.52
	Unprotected	7.0	69.66	4759.80	
R5	Protected	3.4	38.68	6189.60	21.36
	Unprotected	7.0	67.55	4866.93	
R6	Protected	3.6	40.80	6238.66	20.07
	Unprotected	7.0	72.25	4986.15	
R7	Protected	3.6	39.82	6516.89	24.96
	Unprotected	7.5	72.85	4890.26	
R8	Protected	3.3	38.20	6023.66	21.58
	Unprotected	6.7	65.74	4786.37	
R9	Protected	3.5	36.24	6010.28	22.84
	Unprotected	7.2	70.50	4638.33	
Mean avoidable yield loss (%)					22.35

Test Hybrid: 900 M Super

Protected: 1) Local strains of fungal biogents: *Trichodarma 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 7. Survey and surveillance of maize diseases in Northern Karnataka

State : Karnataka Centre : Dharwad Season : Season: Rabi 2017-18

S. No.	District / Place	Area covered (ha)	No. of fields surveyed	Date of survey	Crop Stage	Variety / Hybrid	Charcoal stalk rot (%)
1	Arabhavi	18	26	April	Dough stage	Hybrid	18.84
2	Bagalkote	9	8	March	Dough stage	Hybrid	16.53
3	Dharawad	8	32	February	Dough stage	Hybrid	11.80
4	Haveri	6	10	March	Dough stage	Hybrid	12.26
5	Gokak	26	38	April	Dough stage	Hybrid	21.93
6	Kalaghatagi	15	24	March	Dough stage	Hybrid	9.66

Table 8. Efficacy of bio-extracts in the management of TLB in maize at Mandya

Treatments		Mean disease score	PDI (%)	Disease control (%)	Grain yield	
					(q/ha)	Increase (%)
T_1	*Azadiracta indica* leave @ 10%	3.0	25.20 (30.09)	45.5	27.21	72.7
T_2	*Pongamia pinnata* extract 10%	3.0	33.10 (35.13)	28.5	21.21	78.7
T_3	*Datura stamonium* (datura) 10%	3.0	31.20 (33.97)	32.6	23.56	76.4
T_4	*Calotropis* sp 10%	4.0	36.30 (37.03)	21.5	18.21	81.7
T_5	*Cymbopogan flexdusus* (lemon grass) 10%	3.0	29.10 (32.64)	37.1	25.13	74.8
T_6	*Allium sativum* 10% (garlic)	3.0	31.30 (34.03)	32.3	24.12	75.8
T_7	*Eucalyptus* spray	3.0	29.20 (32.71)	36.9	26.13	73.8
T_8	*Polyalthia longifera* (flase ashoka)	4.0	36.10 (36.94)	22.0	18.23	81.7
T_9	*Ocimum sanctum* (tulsi) @ 10%	4.0	38.10 (38.13)	17.7	17.21	82.7
T_{10}	*Parthenium* @ 10%	3.0	30.10 (33.28)	34.9	24.21	75.7
T_{11}	Cow urine @ 50%	3.0	28.20 (32.06)	39.0	26.31	73.6
T_{12}	*Lantana camera* 10%	3.0	23.10 (27.90)	**50.1**	28.14	71.8
T_{13}	Fungicidal check I	2.0	18.20 (25.25)	**60.6**	32.12	72.7
T_{14}	Water spray check II	5.0	46.30 (42.89)			
SEm ±			1.78		1.89	
CD @ 5.0 %			5.21		5.54	
CV (%)			9.16		14.05	

* Values in the parenthesis indicate Arcsine transformed values

Table 9. Efficacy of bioagents and fungicides in control of TLB in maize at Mandya

Treatments		Mean disease score	PDI (%)	Disease control (%)	Grain yield	
					(q/ha)	Increase (%)
T_1	*P. fluorescence* @ 0.5% as seed treatment + fortified FYM and spray	4.0	35.30 (36.46)	22.9	21.18	78.8
T_2	*TV-3 (Trichoderma viride)* @ 0.5% as seed treatment, fortified FYM and spray @ 0.5%	3.0	33.10 (35.12)	27.7	23.21	76.7
T_3	Propiconazole @ 0.1% spray at 40 DAS	3.0	25.30 (30.21)	44.7	29.13	70.8
T_4	Difenconazole @ 0.1% spray at 40 DAS	2.0	19.30 (26.06)	57.8	33.83	66.1
T_5	Tebuconozole @ 0.1% spray at 40 DAS	2.0	16.80 (24.20)	63.3	35.12	64.8
T_6	Nativo @ 0.05% spray at 40 DAS	2.0	14.30 (22.20)	**68.7**	36.18	63.8
T_7	Mancozeb @ 0.25% spray at 40 DAS	4.0	35.00 (36.27)	23.5	21.31	78.6
T_8	Untreated check (water spray)	5.0	45.80 (42.61)		18.13	
SEm ±			0.41		1.27	
CD @ 5.0 %			1.25		3.86	
CV%			3.90		14.02	

* Values in the parenthesis indicate Arcsine transformed values

Table 10. Efficacy of bioagents and fungicides in control of SDM in maize at Mandya

Treatments		PDI (%)	Disease control (%)	Grain yield	
				(q/ha)	Increase (%)
T_1	*Bacillus amyloliquefaciens* @ 10g/kg as seed treatment, bioagent-fortified FYM (1:50) and spray @ 1.0%	34.44 (32.1)	23.2	17.12	37.5
T_2	*TH-3* @ 0.5% as seed treatment, bioagent-fortified FYM (1:50) and spray @ 0.5%	33.88 (31.1)	41.3	18.13	45.6
T_3	*TV-3 (Trichoderma viride)* @ 0.5% as seed treatment, bioagent-fortified FYM (1:50) and spray @ 0.5%	30.04 (25.1)	47.9	26.14	109.9
T_4	Fosetyl-al @ 0.2% seed treatment and spray @ 0.2%	32.01 (28.2)	44.5	21.25	70.6
T_5	Azoxystrobin @ 0.2% seed treatment and spray @ 0.15%	20.27 (12.1)	**64.8**	35.23	182.9
T_6	Metalaxyl + Mancozeb @ 0.25% seed treatment and spray @ 0.25%	22.72 (15.1)	60.6	32.15	158.2
T_7	Metalaxyl @ 0.25% seed treatment and spray @ 0.25%	27.37 (21.2)	52.5	28.13	125.9
T_8	Untreated check (water spray)	57.72 (71.2)		12.45	
SEm ±		1.12		117.2	
CD @ 5.0 %		3.41		355.6	
CV%		10.42		15.18	

* Values in the parenthesis indicate Arcsine transformed values

Test variety CM 500

Table 11. Efficacy of salicylic acid on incidence of TLB at Mandya

Treatments		Mean disease score	PDI (%)	Disease control (%)	Grain yield	
					(q/ha)	Increase (%)
T_1	50 ppm Salicylic acid as seed priming (SP)	5.0	45.80 (42.60)	17.1	18.43	81.5
T_2	100 ppm SA as SP	4.0	39.30 (38.83)	28.9	28.12	71.8
T_3	150 ppm SA as SP	4.0	38.67 (38.46)	30.0	29.12	70.8
T_4	50 ppm (SP) +50ppm foliar spray (48hrs before inoculation)	4.0	36.30 (37.03)	34.3	31.31	68.6
T_5	100 ppm (SP) +100ppm foliar spray (48hrs before inoculation)	3.0	25.80 (30.47)	53.3	32.18	67.8
T_6	150 ppm (SP) + 150ppm foliar spray (48hrs before inoculation)	2.0	15.20 (22.81)	**72.5**	38.12	61.8
T_7	Check (inoculated, no SP & no foliar spary)	5.0	46.20 (42.84)	16.4	19.13	80.8
T_8	Check no inoculation (water spray)	5.0	55.30 (48.08)		16.23	
SEm ±			0.88		1.48	
CD @ 5.0 %			2.66		4.49	
CV (%)			7.00		17.58	

* Values in the parenthesis indicate Arcsine transformed values

Table 12. Efficacy of resistance inducers in control of SDM at Mandya

Treatments		SDM (%)	Disease control (%)	Grain yield	
				(q/ha)	Increase (%)
T_1	50 ppm Salicylic acid as seed priming	43.1 (40.98)	41.5	12.13	49.1
T_2	100 ppm SA as SP	39.3 (38.70)	46.7	12.81	57.5
T_3	150 ppm SA as SP	28.2 (32.01)	**61.7**	21.13	159.7
T_4	50ppm (SP) + 50ppm foliar spray (48hrs before inoculation)	38.1 (38.13)	48.37	14.21	74.6
T_5	100ppm (SP) + 100ppm foliar spray (48hrs before inoculation)	35.1 (36.30)	52.4	16.13	98.3
T_6	150ppm (SP) + 150ppm foliar spray (48hrs before inoculation)	31.1 (33.77)	57.8	18.12	122.7
T_7	Check (inoculated, no seed priming and no foliar spray)	81.0 (65.03)	9.7	72.1	11.3
T_8	Check- No inoculation	73.8 (59.75)		81.3	
SEm ±		2.09		69.44	
CD @ 5.0 %		6.35		210.6	
CV (%)		14.57		15.00	

* Values in the parenthesis indicate Arcsine transformed values

Annexure-I

Meteorological Data for the Cropping Period *Rabi* 2017-18

S. No.	Centre Name	Month	Max. Temp. (ºC)	Min. Temp. (ºC)	Max. RH (%)	Min. RH (%)	Rainfall (mm)	Rainy Days (Nos.)	Sunshine Hrs.
1	Dharwad	Nov 2017	29.8	15.8	83.2	68.7	16.2	1	-
		Dec 2017	28.7	14.1	83.0	71.1	0.4	0	-
		Jan 2018	29.8	13.9	74.8	57.7	0.0	0	-
		Feb 2018	32.1	15.7	54.1	38.5	1.0	0	-
		Mar 2018	34.9	19.3	65.3	27.8	72.4	3	-
		Apr 2018	36.2	21.1	80.0	37.0	32.8	3	-
3	Dholi	Nov 2017	28.9	14.2	99.6	74.5	-	-	-
		Dec 2017	32.1	10.4	99.5	85.3	-	-	-
		Jan 2018	15.7	7.1	100.0	94.4	-	-	-
		Feb 2018	25.5	11.1	98.5	80.5	-	-	-
		Mar 2018	31.1	15.3	97.0	70.5	-	-	-
		Apr 2018	33.6	20.2	89.8	69.5	44.8/2	-	-
4	Mandya	Nov 2017	29.1	16.8	92.3	75.8	0.0	-	8.0
		Dec 2017	30.0	13.9	90.8	78.6	0.0	-	8.0
		Jan 2018	32.4	17.0	85.8	83.0	0.0	-	8.8
		Feb 2018	33.7	17.5	92.0	87.8	0.8	-	7.0
		Mar 2018	33.0	21.4	91.2	82.7	4.8	-	6.5

ENTOMOLOGY

Summary

Maize Entomology AICRP *rabi* 2017-18 experimental trials aimed mainly at screening cultivars and inbred lines for pest resistance. Multi-location trial of other pest management tools viz., screening of chemical pesticides was also taken up. Screening for pink stemborer *Sesamia inferens* was undertaken at PZ and NWPZ, spotted stemborer *Chilo partellus* at PZ and shoot fly *Atherigona* sp. at NWPZ. Post-screening, the genotypes were categorized as resistant (1-3), moderately resistant (3-6) and susceptible (6-9) based on Leaf Injury Rating (LIR) for the stem borers, whereas genotypes with ≤10% plant mortality were chosen for shoot fly resistance. Thirty late maturity, eleven medium maturity and seven QPM cultivars were screened under artificial infestation against *C. partellus* at PZ (Kolhapur) where, 3 late maturity cultivars viz., ADV7037 (2.85) and BLH-113 (2.85) & PM16203L (2.86); and 2 QPM cultivars viz., HQPM4 (3.0) and MMHQPM-16-121 were found resistant. None of the medium maturity cultivar was found resistant to *C. partellus* at Kolhapur.

Thirty late maturity, eleven medium maturity and seven QPM cultivars were screened under artificial infestation against *S.inferens* at PZ (Hyderabad) and NWPZ (Karnal) during rabi 2017-18 under artificial infestation.., No cultivars of late maturity and QPM were found resistant at Hyderabad and Karnal, while 3 medium maturity cultivars *viz*.,100K-16 (2.87), Bio 9637 (2.89) and Bio 9544 (2.99) were found resistant at Karnal.

Six inbred lines shortlisted earlier for *S. inferens* resistance were screened again, with resistant (CM 500) and susceptible checks (BML6) under artificial infestation against *S. inferens* during rabi 2017-18 at Winter Nursery Centre, Hyderabad. Only two lines viz., HEY Pool -2011-30-4-1-2-2-1 (2.20) and HEY Pool -2011-41-2-1-1-1-1 (2.23) were found resistant..

The efficacy of new insecticides viz., Chlorantraniliprole 20 SC, Flubendiamide 480 SC and Novaluron 10EC with the conventional state recommended pesticides viz., Deltamethrin 2.8 EC and Monocrotophos 36SL were evaluated at Hyderabad against *S. inferens* under artificial infestation. Flubendiamide 480 SC @ 0.2ml/l was found most effective in terms of leaf injury rating and grain yield.

Thirty six inbred lines were evaluated, against shoot fly, *Atherigona* sp. during Spring 2018 in Delhi under natural infestation and *Atherigona naqvii* in Ludhiana under natural infestation with fish meal attractant. In Delhi, no dead hearts were observed in two genotypes, HEY Pool -2011-5SC-3-1-1 and HEY Pool -2011-5SC-3-2-1, while none of the genotypes were found resistant at Ludhiana,.

Twenty nine lines were evaluated against shoot fly *Atherigona* sp. during Spring 2018 in Karnal under natural infestation and *Atherigona naqvii* in Ludhiana under natural infestation with fish meal attractant. At Karnal, CM117-3-4-1 and WNC11RMPCZ10 recorded ≤10% dead hearts, while CML 162 was statistically at par with 11.11% dead hearts. None of the lines with ≤10% dead hearts were found at Ludhiana; however, G18QC8-36, CM 500 and S01SIYQBBB13B were found least susceptible with 15.87, 17.15 and 17.43% dead hearts respectively.

ET 7A: Evaluation of maize AICRP varietal trial (AVT 1 & AVT II) entries against *Chilo partellus* (Swinhoe) under artificial infestation during Rabi, 2017-18 at Kolhapur

Location: Kolhapur

ET7 A.1 Trial No. 426, Late maturity

Number of Entries: 30, Number of rows: 2

S.No.	Entry Name	Mean Leaf injury Rating (1-9 Scale)	Category of infestation
1	PM16206L	3.5	MR
2	GK3208	4.92	MR
3	**BLH-113**	**2.85**	**R**
4	DKC 9188	5.58	MR
5	PM16204L	3.49	MR
6	Bio305	5.07	MR
7	**ADV7037**	**2.85**	**R**
8	DKC 9181	3.66	MR
9	HT 16047	5.2	MR
10	PM16207L	3.54	MR
11	PM16202L	4.91	MR
12	Rasi 1107	5.52	MR
13	PM16201L	3.1	MR
14	VNR 32994	4.95	MR
15	PM16205L	4.77	MR
16	Rasi 2015 (P2)	5.14	MR
17	BLH-116	5.23	MR
18	MM2033	5.88	MR
19	CMH-2829	3.56	MR
20	DAS-MH-904	5.52	MR
21	**PM16203L**	**2.86**	**R**
22	ADV7139	3.83	MR
23	Super3366	4.24	MR
24	DAS-MH-903	3.96	MR
25	JH273	3.57	MR
26	HT 16052	3.08	MR
27	P3522 (C)	5.06	MR
28	Seedtech 2324 (C)	5.32	MR
29	Buland (C)	6.43	S
30	Bio 9681 (C)	3.76	MR
	CD (5%)	3.43	-

ET7 A. 2 Trial No. 427, Medium maturity

Number of Entries: 11, Number of rows: 2

S.No.	Entry Name	Mean Leaf injury Rating (1-9 Scale)	Category of infestation
1	100K-16	6.42	S
2	100K-18	6.80	S
3	BLH-109	3.55	MR
4	Bio 9544(C)	5.80	MR
5	Bio 9637 (C)	3.39	MR
6	DHM 117 (C)	5.17	MR
7	DKC 8171	5.33	MR
8	DKC 8185	5.50	MR
9	IM8013	6.23	S
10	IMHBG-16R-6	5.70	MR
11	VaMH 12013	4.57	MR
	CD (5%)	3.85	-

ET7 A.3 Trial No. 428, QPM

Number of Entries: 7, Number of rows: 2

S.No.	Entry Name	Mean Leaf injury Rating (1-9 Scale)	Category of infestation
1	HQPM-27	6.00	MR
2	HQPM1 (C)	4.50	MR
3	**HQPM4 (C)**	**3.00**	**R**
4	HQPM7 (C)	7.10	S
5	IHQ-0922	6.19	S
6	MMHQPM-10-11-15	5.39	MR
7	**MMHQPM-16-12-13**	**3.00**	**R**
10	CD (5%)	2.45	-

ET 7 B: Evaluation of maize AICRP varietal trial (AVT 1 & AVT II) entries against *Sesamia inferens* Walker under artificial infestation during Rabi 2017-18 at Hyderabad and Karnal

ET7 B.1 Trial No. 426, Late maturity

Number of Entries: 30, Number of rows: 2

S.No.	Entry	Mean Leaf Injury Rating 1-9 Scale)			Category of Infestation
		Hyderabad	Karnal	Over all Mean	
1	PM16206L	5.21	4.21	4.71	MR
2	GK3208	4.65	3.87	4.26	MR
3	BLH-113	5.69	4.71	5.20	MR
4	DKC 9188	3.95	4.74	4.35	MR
5	PM16204L	5.45	4.06	4.76	MR
6	Bio305	4.55	4.38	4.47	MR
7	ADV7037	4.20	4.50	4.35	MR
8	DKC 9181	4.85	4.41	4.63	MR
9	HT 16047	4.60	3.21	3.91	MR
10	PM16207L	5.50	3.90	4.70	MR
11	PM16202L	4.65	3.38	4.02	MR
12	Rasi 1107	5.35	3.81	4.58	MR
13	PM16201L	4.06	4.02	4.04	MR
14	VNR 32994	4.00	3.27	3.64	MR
15	PM16205L	5.24	3.93	4.59	MR
16	Rasi 2015 (P2)	4.55	3.93	4.24	MR
17	BLH-116	6.05	3.73	4.89	MR
18	MM2033	4.30	5.51	4.91	MR

S.No.	Entry	Mean Leaf Injury Rating 1-9 Scale)			Category of Infestation
		Hyderabad	Karnal	Over all Mean	
19	CMH-2829	4.76	3.73	4.25	MR
20	DAS-MH-904	5.04	3.91	4.48	MR
21	PM16203L	5.00	3.90	4.45	MR
22	ADV7139	4.46	3.58	4.02	MR
23	Super3366	4.04	5.06	4.55	MR
24	DAS-MH-903	5.45	5.00	5.23	MR
25	JH273	4.56	4.83	4.70	MR
26	HT 16052	4.09	4.14	4.12	MR
27	P3522 (C)	5.45	3.13	4.29	MR
28	Seedtech 2324 (C)	4.86	2.96	3.91	MR
29	Buland (C)	3.79	3.54	3.67	MR
30	Bio 9681 (C)	4.45	4.42	4.44	MR
31	CM 500 (R)	4.50	-	-	
32	CM 202 (S)	7.0	-	-	
	CD (5%)	1.28	**NS**		

ET7 B.2 Trial No. 427, Medium maturity

Number of Entries: 11, Number of rows: 2

S.No.	Entry	Mean Leaf injury Rating (1-9 Scale)			Category of infestation
		Hyderabad	Karnal	Over all Mean	
1	100K-16	4.85	**2.87**	3.86	MR
2	100K-18	5.45	4.30	4.88	MR
3	BLH-109	5.05	3.58	4.32	MR
4	Bio 9544(C)	4.15	**2.99**	3.57	MR
5	Bio 9637 (C)	5.25	**2.89**	4.07	MR
6	DHM 117 (C)	4.05	3.70	3.88	MR
7	DKC 8171	5.20	3.04	4.12	MR
8	DKC 8185	4.70	3.69	4.20	MR
9	IM8013	5.30	5.94	5.62	MR
10	IMHBG-16R-6	4.75	3.91	4.33	MR
11	VaMH 12013	4.55	3.64	4.10	MR
12	CM 500 (R)	3.20	-	-	
13	CM 202 (S)	7.80	-	-	
	CD (5%)	1.18	1.33		

ET7 B.3 Trial No. 428, QPM

S.No.	Entry Name	Mean Leaf Injury Rating (1-9 Scale)			Category of infestation
		Hyderabad	Karnal	Over all Mean	
1	HQPM-27	4.90	4.38	4.64	MR
2	HQPM1 (C)	4.25	3.72	3.99	MR
3	HQPM4 (C)	4.40	3.78	4.09	MR
4	HQPM7 (C)	4.20	3.61	3.91	MR
5	IHQ-0922	5.10	3.84	4.47	MR
6	MMHQPM-10-11-15	4.90	3.20	4.11	MR
7	MMHQPM-16-1213	4.55	4.35	4.45	MR
8	CM 500 (R)	4.40	-	-	
9	CM 202 (S)	7.5	-	-	
	CD (5%)	0.94			

ET 8. Evaluation of maize inbred lines against S. *inferens* during Rabi 2017-18 under artificial infestation at Hyderabad
Number of entries: 8, Replications: 3, Row length: 3.0m

S.No	Pedigree	Mean Leaf Injury rating (1-9 Scale)
1	HEY Pool -2011-30-4-1-2-2-1	2.20
2	HEY Pool -2011-41-2-1-1-1-1	2.33
3	HEY Pool -2011-41-2-1-1-2-1	3.23
4	HEY Pool -2011-21-2-3-3-1-1	4.30
5	VQPM9-2-1-2-1	5.43
6	DMRE63	3.53
7	CM500 (Resistant Check)	2.47
8	BML6 (Susceptible Check)	6.10
	CD (P=0.05)	2.14

ET 9: Evaluation of insecticides against Stem borer, *S. inferens* during *Rabi* 2017-18 in maize at Hyderabad

Variety/hybrid: DHM 117
Date of Sowing: 08.12.17
Number of treatments: 10
Number of replications: 3

Date of Infestation: 29.12.17Sprayed 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	Mean Leaf injury Rating (1-9 Scale)	Mean grain yield/plot (kg/45 m^2)	Mean grain yield (q/ha)
1	Chlorantriniliprole 20 SC	0.3 ml/l	3.42	3.07	68.22
2	Chlorantriniliprole 20 SC	0.4 ml/l	3.31	3.20	71.11
3	Flubendiamide 480 SC	0.1 ml/l	2.47	3.23	71.78
4	**Flubendiamide 480 SC**	**0.2 ml/l**	**2.32**	**3.47**	**77.11**
5	Novaluron 10EC	0.75 ml/l	3.83	2.63	58.44
6	Novaluron 10EC	1.0 ml/l	3.62	2.80	62.22
7	Deltamethrin 2.8 EC	0.4 ml/l	3.66	2.27	50.44
8	Deltamethrin 2.8 EC	0.8 ml/l	3.43	2.37	52.67
9	Monocrotophos 36SL	1.6 ml/l	4.10	2.07	46.00
10	Control	Water spray	6.70	1.63	36.22
	CD at 5%	-	0.61	0.34	

ET 10. Evaluation of inbred lines against shoot fly, *Atherigona* sp. under natural infestation (Delhi and Ludhiana) during spring 2018
Delhi: Screening against *Atherigona* sp.under natural infestation.

Number of entries: 36, Row length: 3.0 m, Replication: 2, Design: RBD

Date of sowing: 1.03.2018, Date of germination: 9.3.2018, Date of observation: 2.4.2018

S. No.	Genotypes	Dead hearts (%)	S. No.	Genotypes	Dead hearts (%)
1	HEY Pool -2011-5SC-3-1-1	0	21	HEY Pool -2011-15-2-2-1-1-1	47.73
2	CM-137	33.29	22	HEY Pool -2011-25-6-2-1-2-1	31.82
3	BML 13	30.54	23	HEY Pool -2011-5SC-3-2-1	0
4	CM-212	28.99	24	HEY Pool-2011-42-1-1-1-1	12.50
5	CML 9	38.75	25	IC-639445	32.55
6	CML-486	55.00	26	IC-656142	59.80
7	CML-306	19.05	27	NAI-147	27.14
8	CML-342	35.12	28	NAI-175	16.67
9	CML-425	11.86	29	PFSR-10109	47.20
10	CML-43	13.75	30	PFSR-10116	25.65
11	CML-482	13.89	31	V 341	37.86
12	CML-50	31.25	32	VH 9-1-2-1-1	31.37
13	CML-73	18.57	33	VH 9-2-1-1-1	31.42
14	HEY Pool -2011-12-1-1-3-3-1	47.25	34	VH 9-3-2-1	55.20
15	HEY Pool -2011-12-3-3-3-1-1	18.41	35	VQPM9-1-2-1	44.32
16	HEY Pool -2011-15-3-7-3-1-1	57.14	36	VQPM9-2-1-3-1	33.33
17	HEY Pool -2011-5-2-3-2-1	55.56		General Mean	31.50
18	HEY Pool -2011-21-2-3-3-1-1	15.00		p-Value	0.4295
19	HEY Pool -2011-25-6-1-3-1-1	11.47		CV(%)	73.96
20	HEY Pool -2011-30-4-1-2-2-1	64.71		SE(d)	23.301
				Tukey HSD at 5%	NS

Ludhiana: Screening under Natural infestation of *Atherigona naqvii* with fishmeal attractant.

Number of entries: 36, Row length: 3.0m, Replication: 2, Design: RBD

Date of sowing: 26.2.18, Date of germination: 10.3.18, Date of observation: 3.4.2018

S. No.	Genotypes	Dead hearts (%)	S. No.	Genotypes	Dead hearts (%)
1	HEY Pool-2011-5SC-31-1	40.97	22	HEY Pool-2011-25-6-2-1-2-1	38.75
2	CM-137	30.00	23	HEY Pool-2011-12-5SC-3-2-1	33.79
3	BML-13	41.11	24	HEY Pool-2011-42-1-1-1-1	43.34
4	CM-212	23.64	25	IC-639445	32.14
5	CML-9	26.11	26	IC-656142	28.90
6	CML-486	25.00	27	NAI-147	23.34
7	CML-306	26.14	28	NAI-175	27.62
8	CML-342	36.67	29	PFSR-10109	28.18
9	CML-425	31.52	30	PFSR-10116	31.25
10	CML-43	30.95	31	V 341	36.11
11	CML-482	38.64	32	VH 9-1-2-1-1	31.67
12	CML-50	34.52	33	VH 9-2-1-1-1	26.67
13	CML-73	35.72	34	VH 9-3-2-1	25.00
14	HEY Pool-2011-12-1-1-3-3-1	29.17	35	VQPM9-1-2-1	23.72
15	HEY Pool-2011-12-3-3-3-1-1	27.78	36	VQPM9-2-1-3-1	45.00
16	HEY Pool-2011-15-3-7-3-1-1	22.65		General Mean	31.54
17	HEY Pool-2011-5-2-3-2-1	36.67		p-Value	0.9505
18	HEY Pool-2011-21-2-3-3-1-1	27.78		CV(%)	35.30
19	HEY Pool-2011-25-6-1-3-1-1	29.29		SE(d)	11.134
20	HEY Pool-2011-30-4-1-2-2-1	30.95		Tukey HSD at 5%	NS
21	HEY Pool-2011-15-2-2-1-1-1-1	34.72			

ET 11. Evaluation of inbred lines against shoot fly ,*Atherigona* sp. under natural infestation (Karnal and Ludhiana) 3rd year

Karnal: Screening against *Atherigona* sp. under natural infestation

Number of entries: 29, Row length: 3.0 m, Replication: 2, Design: RBD

S. No.	Genotypes	Dead hearts (%)	S. No.	Genotypes	Dead hearts (%)
1	WNC11RMPCZ10	10.00^{g}	18	EC 4400414	46.97^{abcde}
2	WNC11RMPCZ5	37.50^{bcdefg}	19	G18QC8-36	20.20^{defg}
3	WNCDMR19RYWS 1819	15.56^{fg}	20	HKI326-3	16.67^{efg}
4	AEB(Y)C534-1-5	36.51^{bcdefg}	21	P63C2BBB17B	34.72^{bcdefg}
5	ACCNO.584585	18.06^{defg}	22	PFSR/51016-1	53.33^{abc}
6	IIMR PBT POOL	43.94^{abcdef}	23	S01SIYQBBB13B	59.52^{ab}
7	WNZPBTL 8	15.66^{fg}	24	HKI170(1+2)	37.14^{bcdefg}
8	DMR N5	28.75^{bcdefg}	25	AEBY(1)	73.33^{a}
9	CM117-3-4-1	9.09^{g}	26	WNCDMR5881	21.43^{defg}
10	CML 162	11.11^{g}	27	AEBY534-1	72.22^{a}
11	CML 292	55.56^{abc}	28	AEBYC534-1-7	48.75^{abcd}
12	CML336	75.00^{a}	29	EC656141	45.24^{abcdef}
13	CML 338	40.00^{bcdefg}		General Mean	35.89
14	CML 420	16.25^{efg}		p-Value	<.0001
15	CM 500	28.33^{bcdefg}		CV(%)	21.07
16	CML 50	25.00^{cdefg}		SE(d)	7.564
17	CML 73	45.00^{abcdef}		Tukey HSD at 5%	31.246

Ludhiana: Screening against *Atherigona naqvii* under natural infestation with fishmeal attractant

Number of entries: 29, Row length: 3.0 m, Replication: 2, Design: RBD

Date of sowing: 26.2.18, Date of germination: 10.3.18, Date of observation: 3.4.2018

S. No.	Genotypes	Dead hearts (%)	S. No.	Genotypes	Dead hearts (%)
1	WNC11RMPCZ10	41.67^{ABC}	18	EC 4400414	19.81^{CD}
2	WNC11RMPCZ5	33.33^{ABCD}	19	G18QC8-36	15.48^{D}
3	WNCDMR19RYWS 1819	23.01^{BCD}	20	HKI326-3	19.38^{CD}
4	AEB(Y)C534-1-5	29.29^{ABCD}	21	P63C2BBB17B	20.09^{CD}
5	ACCNO.584585	19.81^{CD}	22	PFSR/51016-1	26.79^{ABCD}
6	IIMR PBT POOL	22.50^{BCD}	23	S01SIYQBBB13B	17.43^{D}
7	WNZPBTL 8	20.49^{CD}	24	HKI170(1+2)	36.67^{ABCD}
8	DMR N5	32.39^{ABCD}	25	AEBY(1)	21.88^{BCD}
9	CM117-3-4-1	22.69^{BCD}	26	WNCDMR5881	29.17^{ABCD}
10	CML 162	23.38^{BCD}	27	AEBY534-1	45.00^{AB}
11	CML 292	34.72^{ABCD}	28	AEBYC534-1-7	22.50^{BCD}
12	CML336	30.00^{ABCD}	29	EC656141	22.26^{BCD}
13	CML 338	18.26^{CD}		General Mean	26.85
14	CML 420	21.88^{BCD}		p-Value	<.0001
15	CM 500	17.15^{D}		CV(%)	21.58
16	CML 50	50.00^{A}		SE(d)	5.794
17	CML 73	41.67^{ABC}		Tukey HSD at 5%	23.936

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