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All India Coordinated Research Project on Maize
Directorate of Maize Research
Pusa Campus, New Delhi-110 012, India
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SUMMARY

Rabi maize is becoming popular in most of the areas of the country as it can be easily grown in the entire plain regions of the country where temperature during the winter does not go below 10^0C. In addition to South India and Bihar, the popularity of maize as winter crop has now been extended to the states of Punjab, Haryana, Eastern Uttar Pradesh and foothills of Himalayan region, because of high yield and less incidence of insect pests and diseases. The final estimated production during 2010-11 was 5.088 mt. The area under maize cultivation during rabi 2010-11 in India has increased to 1.271 mha. The salient results of the rabi 2011-12 trials are presented below:

Breeding:

During Rabi 2011-12, seventy four entries were received for evaluation in coordinated trials. These all entries belonging to late (56), medium (14), early (2) and QPM (2) were evaluated in seven breeding trials at nineteen locations across the country along with five national checks (three late, one each of medium and early). Trial I (IET-Late) was having 29 entries, Trial II (IET Medium) was having 10, Trial III (IET early) was having 2, Trial IV (AETI-late) was having 22, Trial V (AETI-Medium) was having 4, Trial VII (AETII- late) was having 5 and QPMI was having 2 entries. There was no any entry received for testing in AET I early maturity and AET II medium and early maturity group. Total of 46 entries were promoted in different maturity group (Table 1.). Among 46, 30 were from private sector and 16 hybrids were from public sectors viz. HKH 323, HKH 324, HKH 325, HKH 326, HKH 327, HKH 328, VEH-11-1, and VaMH 08014 (promoted from IET Medium maturity to AETI Medium), JH 273 and JH 270 (IET Late to AETI late), HKH 329 and HKH 330 (IET Early to AET I early), CMH08-282 and CMH 08-287 (AETI late to AETII late for zone V) and VEHQ-11-1 and VEH-11-2 (QPMI to QPMII). The details of entries promoted under different maturity group and their respective zones have been given in table 1.

Table 1: List of promoted entries from rabi 2011-12 trials evaluation in different maturity group

A. List of entry promoted from Trial-1 (IET Late) to Trial- 4 (AET I-Late)			
S.N.	**Entry Name**	**Institute/company**	**Zone**
1	BIO 237	Bio seed	II, III, IV
2	X35B339	Pioneer	II,III IV, V
3	KMH-7148	Kaveri seed	II,III,IV
4	X35B361	Pioneer	II,III,IV,V
5	PRO 385	Bayer	II,III,IV,V
6	PRO 386	Bayer	II,IV
7	NMH-1247	Nuziveedu	II,III,IV,V

8	KH-3479	Kanchan Ganga	III,IV,V
9	X35B352	Pioneer	III,IV,V
10	X35B349	Pioneer	III,IV
11	X35B348	Pioneer	III,IV,V
12	A 7501	Advanta	III,IV
13	KH-B 54	Kanchan Ganga	III,IV
14	Bisco x5141	Bio sciences	III,IV
15	HTMH5105	Hytech seed	III,IV
16	JH-273	PAU Ludhaina	IV
17	JH-270	PAU Ludhaina	IV
B. List of entry promoted from Trial-2 (IET Medium) to Trial- 5 (AET I-Medium)			
S.N.	**Entry Name**	**Institute/company**	**Zone**
1	KH-6847	Kanchan Ganga	II,III,IV,V
2	VEH 11-1	BHU, Varanasi	II,V
3	HKH 328	HAU, Karnal	II,V
4	HKH 325	HAU, Karnal	II
5	VaMH 08014	Vagarai, TNAU	II,V
6	HKH 327	HAU, Karnal	II,V
7	HKH 326	HAU, Karnal	II
8	HKH 324	HAU, Karnal	II
9	HKH 323	HAU, Karnal	II
C. List of entry promoted from Trial-3 (IET Early) to Trial- 6 (AET I-Early)			
S.N.	**Entry Name**	**Institute/company**	**Zone**
1	HKH 329	HAU, Karnal	V
2	HKH 330	HAU, Karnal	V
D. List of entry promoted from Trial-4 (AET-Late) to Trial- 7 (AET II-Late)			
S.N.	**Entry Name**	**Institute/company**	**Zone**
1	KMH-2700(25K45)	Kaveri Seed	II,IV
2	S 7720	Syngenta	II,IV,V
3	NMH-666	Nuziveedu seed	II,V
4	NK 6607	Syngenta	III,V
5	CMH08-287	TNAU, Coimbatore	IV
6	NMH-731	Nuziveedu Seeds	IV,V
7	CMH08-282	TNAU, Coimbatore	IV
8	PRO 380	Bayer	IV,V
9	NMH-713	Nuziveedu Seeds	V
10	Bisco x -5129	Bisco Biosciences	IV,V
11	S 7700	Syngenta	V
12	Bisco x -9	Bisco Biosciences	V
13	Bisco New 704	Bisco Biosciences	V

14	RJ-2020	RJ Biotech	V
E. List of entry promoted from Trial-5 (AET-Medium) to Trial- 8 (AET II-Medium)			
S.N.	**Entry Name**	**Institute/company**	**Zone**
1	NMH-1242	Nuziveedu seeds	III,IV,V
2	BIO 151	Bio Seed	III,IV,V
F. List of entry promoted from QPM-I QPM -II			
S.N.	**Entry Name**	**Institute/company**	**Zone**
1	VEHQ 11-1	BHU, Varanasi	II
2	VEHQ 11-2	BHU, Varanasi	II

Agronomy:

The salient findings of agronomic trials of AICRIP on Maize conducted during *rabi* season of 2011-12 at different centers are summarized here. The trials were mainly focused on genotypic response to different NPK levels, plant density, nutrient and weed management, agronomy for inbred seed production and selection of hybrid and optimization of sowing date under changing climatic scenario.

Genotype response to nutrient levels

During the period under report pre release late maturing genotypes were tested under different levels of (150:65:65, 200:80:80 and 250:95:95 N:P_2O_5: K_2O kg/ha) in zone II (Delhi, Karnal and Ludhiana), zone III (Bahraich and Dholi), zone IV (Arbhavi, Hyderabad, Kolhapur) and zone V (Banswara, Udaipur). In Delhi (Zone I) '35 AO19' being at par with 'Pro 379' and 'Buland'(check) gave the highest productivity than remaining genotypes. But could not prove better than 'Seed Tech-2324' (the best check), which gave the highest yield. At Karnal, 'Pro 379' was found as the best genotype, and it produced more yield over 'Bio 265' and Buland (check), while it remained at par with other genotypes. Similarly, at Ludhiana among the different genotypes '35A019' also gave the highest yielder and it gave significantly higher yield than 'Bio 9681' (check) only. At Baharaich (Zone III) 'Pro 379' was also the highest yielder, which out yielded all the genotypes including the best check 'Buland'. At Dholi 'Pro 379' was also better than all the genotypes except '35A019', which remained equal to former one. At Arbhavi, Hyderabad and Kolhapur (Zone IV), 'PRO 379' was the best genotype by producing higher yield over remaining genotypes. While it remained at par with check 'Bio 9681' at Hyderabad and 'Bio 265' at Kolhapur. At Banswara and Udaipur centre of (Zone V) '35 AO19' was the best genotype which recorded higher yields compared to all other genotypes including checks. Regarding the response of different genotypes to different NPK levels, it was observed that at Bahraich, Dholi and Arabhavi, response was found with each increase in NPK level up to the highest dose *i.e.* 250:95:95 N:P_2O_5: K_2O kg/ha. However, at Hyderabad and Kolhapur, the genotypes responded up to the medium level NPK (250:80:80 N: P_20_5: K_2O kg/ha). At Delhi and Banswara, the NPK level of 250:95:95 N:P_2O_5: K_2O kg/ha produced the highest yield, which was more than that of 150:65:65 N:P_2O_5: K_2O kg/ha level. However, at Udaipur and Ludhiana, no genotype could respond to varying NPK levels.

Seed production of inbred

At Karimnagar findings of plant population and fertility levels trial for seed production of inbred lines indicated that there was no significant differences in seed yield of both male and female parents between two plant populations of 75,000 and 60,000 plant/ha. The application of 250 N: 90P_2O_5: 90K_2O kg/ha and 200 N: 75P_2O_5: 75K_2O kg/ha with 15t/ha FYM was found sufficient for seed production of female and male parents respectively.

Planting and nutrient application in maize

The two planting systems of uniform row at 67cm and paired row (84:50cm) and residue incorporation could not show the significant changes in the yield of maize under rain fed condition of Vagarai. However, plant population of 60,000 plants/ha was found superior over 40,000 and 50,000 plants/ha. Similarly, in Hyderabad, maize grown with the plant population of 75,000 plants/ha produced more yields over 60,000 and 66,666 plants/ha. Regarding the fertility level significant response was recorded up to 200 N: 75P_2O_5: 75K_2O kg/ha level. At Dholi the highest plant population of 75,000 plants/ha significantly improved the maize yield over 60,000 and 66,000 plants /ha levels. Each increase in fertility level from 120 N: 60P_2O_5: 40K_2O kg/ha to 300 N: 105P_2O_5: 105 K_2O : 25 $ZnSO_4$kg/ha level enhanced the maize yields.

Integrated weed management in maize based cropping systems

Integrated weed management studies were carried in rice-maize cropping system at Hyderabad and maize-wheat cropping system at Pantnagar. The results indicated that at Pantnagar and Hyderabad, application of glyphosate @1.0kg a.i. /ha as pre plant incorporation followed by atrazine 0.75 kg a.i./ha as post emergence was the best weed management practice in maize. At Pantnagar atrazine @ 1.0 kg a.i./|ha pre emergence followed by 2,4-D@ 0.4 kg a.i./ha at 25-30 DAS treatment proved similar to glyphosate @1.0kg a.i. /ha as pre plant incorporation followed by atrazine 0.75 kg a.i./ha as post emergence treatment and no variation in resident effects on wheat was noticed at different weed management treatments applied to maize recorded.

Performance of maize hybrids under planting dates

The maximum yield of maize was recorded, when crop was planted at normal date of sowing (25 September), While, 10 days advance sowing by and 20 days delayed sowing significantly reduced the yields of maize. Among the different hybrids, '900M Gold', being at par with 'CMH 08282' produced more yield than 'COH (M) 5' and 'NK6240'.

Tillage management in maize based cropping system

At Dholi zero tillage in wheat grown after maize was recorded as the best tillage management practice and it was statistically equal to by permanent planting method. However both of these practices were superior over flat bed and conventional tillage practice.

Pathology:

A total of 84 various maize genotypes were evaluated against major disease of maize under artificial epiphytotic condition at various hot spot location i.e. TLB (Turcicum Leaf Blight) at Mandya, D. M. (Downy Mildew) at Coimbatore and PFSR (Post Flowering Stalk Rot)

at Ludhiana, Arbhavi and Hyderabad. Out of them 28 genotypes were found resistant against TLB some of them are; CMH08-239; CMH08-287; NMH-713; HKH 402; HTMH5105; X35B349; 25against PFSR at Ludhiana, Arbhavi and Hyderabad some of them are DMRNH 2; PRO379; S7720; BIO 151; Bisco x – 5141; KH – B 54; JH-367. The genotypes with multiple resistances to PFSR & TLB are CMH08-239; CMH08-287; RJMH-2 By 1; PRO 380; and JH – 289. A total of 17 lines out of 200 elite lines were found resistant for charcoal rot (PFSR) at Hyderabad. A total 48 lines were found resistant against TLB out of 84 lines, screened at Mandya during *Rabi* 2011-12.

Entomology:

A total of 37 maize germplasm were screened under artificial infestation against stem borer, *C. partellus*, at Kolhapur as well as at Hyderabad. Two entries *viz.;* HKH 402 (2.50) and NK 6607 (2.90) were found to be least susceptible and one entry Bisco New 704 (6.85) was found to be highly susceptible to the stem borer infestation in Kolhapur. However, remaining 34 entries were found to be moderately susceptible. At Hyderabad, out of 37 germplasm, only 10 germplasm were moderately susceptible and remaining was highly susceptible. Two hundred nine inbred lines were evaluated against *Sesamia inferens* under artificial infestation. Four inbred were found highly resistance while fifty-nine were moderately resistance. The remaining 146 inbred lines were highly susceptible to *S. inferens*.

Coded and Decoded Pedgrees of Trials

TRIAL NO. 1	**:**	IET - LATE
MATURITY	**:**	LATE
YEAR	**:**	2011-2012
SEASON	**:**	RABI
NO. OF ROWS	**:**	2
ROW LENGTH (METRE)	**:**	4
NO. OF REPLICATIONS	**:**	3
NO. OF LOCATIONS	**:**	19
LOCATIONS:		GOSSAIGAON, LUDHIANA, KARNAL, DELHI, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, VARANASI, RANCHI, BHUBANESHWAR, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, ARBHAVI, VAGARAI, BANSWARA, GODHRA

				REPLICATIONS		
E. No.	**Entry Name**	**DMR Code**	**INSTITUTE/ORIGIN**	**R I**	**R II**	**R III**
1	NMH-1247	DMR 101	NUZIVEEDU SEEDS	1014	1060	1070
2	Bisco x -5141	DMR 102	BISCO BIO-SCIENCES	1011	1053	1094
3	HKH-415	DMR 103	KARNAL,CCSAU	1007	1035	1074
4	HKH-416	DMR 104	KARNAL,CCSAU	1008	1034	1076
5	HKH-417	DMR 105	KARNAL,CCSAU	1029	1042	1077
6	KH-B 54	DMR 106	KANCHAN GANGA SEED COMP.	1003	1039	1065
7	KH-3479	DMR 107	KANCHAN GANGA SEED COMP.	1006	1055	1095
8	BIO 237	DMR 108	KANCHAN GANGA SEED COMP.	1012	1054	1086
9	KMH-7148	DMR 109	KAVERI SEED COMP. LTD.	1018	1063	1067
10	HTMH5105	DMR 110	Hytech Seed India Pvt. Ltd.	1020	1064	1084
11	WNZPBTS 1	DMR 111	WNC,DMR,HYDERABAD	1005	1037	1083
12	JH-273	DMR 112	P.A.U.Ludhiana	1025	1051	1090
13	JH-289	DMR 113	P.A.U.Ludhiana	1001	1052	1069
14	JH-270	DMR 114	P.A.U.Ludhiana	1009	1040	1073
15	JH-342	DMR 115	P.A.U.Ludhiana	1010	1059	1081
16	JH-291	DMR 116	P.A.U.Ludhiana	1032	1038	1078
17	JH-290	DMR 117	P.A.U.Ludhiana	1027	1043	1075
18	JH-367	DMR 118	P.A.U.Ludhiana	1030	1058	1082
19	JH-31512	DMR 119	P.A.U.Ludhiana	1028	1046	1085
20	JH-31512	DMR 120	P.A.U.Ludhiana	1021	1057	1088
21	JH-31596	DMR 121	P.A.U.Ludhiana	1017	1050	1071
22	X35B352	DMR 122	Pioneer	1022	1048	1093
23	X35B339	DMR 123	Pioneer	1019	1049	1079
24	X35B349	DMR 124	Pioneer	1002	1033	1089
25	X35B348	DMR 125	Pioneer	1004	1047	1092
26	X35B361	DMR 126	Pioneer	1016	1044	1087
27	A 7501	DMR 127	Advanta	1024	1041	1080
28	PRO 386	DMR 128	Bayer	1031	1062	1091
29	PRO 385	DMR 129	Bayer	1026	1056	1068
30	SEEDTECH 2324 (C)	DMR 130	BISCO BIO-SCIENCES	1015	1061	1066
31	BULAND (C)	DMR 131	PAU, Ludhiana	1023	1036	1096
32	BIO 9681 (C)	DMR 132	Bio Seed	1013	1045	1072

TRIAL NO. 2-3	**:**	IET - MEDIUM AND EARLY
MATURITY	**:**	MEDIUM AND EARLY
YEAR	**:**	2011-2012
SEASON	**:**	RABI
NO. OF ROWS	**:**	2
ROW LENGTH (METRE)	**:**	4
NO. OF REPLICATIONS	**:**	3
NO. OF LOCATIONS	**:**	19
LOCATIONS:		GOSSAIGAON, LUDHIANA, KARNAL, DELHI, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, VARANASI, RANCHI, BHUBANESHWAR, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, ARBHAVI, VAGARAI, BANSWARA, GODHRA

				REPLICATIONS		
E.No.	**Entry Name**	**DMR Code**	**INSTITUTE/ORIGIN**	**R I**	**R II**	**R III**
1	VaMH 08013	DMR 201	VAGARAI,TNAU	2006	2025	2034
2	VaMH 08014	DMR 202	VAGARAI,TNAU	2009	2024	2040
3	HKH 323	DMR 203	KARNAL,CCSAU	2011	2027	2037
4	HKH 324	DMR 204	KARNAL,CCSAU	2012	2026	2039
5	HKH 325	DMR 205	KARNAL,CCSAU	2004	2028	2033
6	HKH 326	DMR 206	KARNAL,CCSAU	2013	2018	2042
7	HKH 327	DMR 207	KARNAL,CCSAU	2014	2021	2036
8	HKH 328	DMR 208	KARNAL,CCSAU	2010	2019	2031
9	KH-6847	DMR 209	KANCHAN GANGA SEED COMP.	2003	2023	2029
10	VEH 11-1	DMR 210	BHU, Varanasi	2007	2015	2032
11	BIO 9637 (C)	DMR 211	KARNAL,CCSAU	2005	2020	2035
12	HKH 329	DMR 212	KARNAL,CCSAU	2008	2017	2030
13	HKH 330	DMR 213	KARNAL,CCSAU	2001	2016	2041
14	PRAKASH (C)	DMR 214	PAU, Ludhiana	2002	2022	2038

TRIAL NO. 4-5 : AET I - LATE AND MEDIUM
MATURITY : LATE AND MEDIUM
YEAR : 2011-2012
SEASON : RABI
NO. OF ROWS : 4
ROW LENGTH (METRE) : 4
NO. OF REPLICATIONS : 3
NO. OF LOCATIONS : 19
LOCATIONS: GOSSAIGAON, LUDHIANA, KARNAL, DELHI, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, VARANASI, RANCHI, BHUBANESHWAR, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, ARBHAVI, VAGARAI, BANSWARA, GODHRA

				REPLICATIONS		
E.No.	**Entry Name**	**DMR Code**	**INSTITUTE/ORIGIN**	**R I**	**R II**	**R III**
1	CMH08-239	DMR 401	COIMBATORE,TNAU	4012	4048	4061
2	CMH08-259	DMR 402	COIMBATORE,TNAU	4020	4059	4086
3	CMH08-282	DMR 403	COIMBATORE,TNAU	4010	4041	4082
4	CMH08-287	DMR 404	COIMBATORE,TNAU	4015	4060	4064
5	NMH-731	DMR 405	NUZIVEEDU SEEDS	4013	4047	4079
6	NMH-713	DMR 406	NUZIVEEDU SEEDS	4017	4038	4067
7	NMH-920	DMR 407	NUZIVEEDU SEEDS	4021	4053	4088
8	NMH-666	DMR 408	NUZIVEEDU SEEDS	4005	4050	4062
9	Bisco New 704	DMR 409	BISCO BIO-SCIENCES	4022	4043	4069
10	Bisco x -5129	DMR 410	BISCO BIO-SCIENCES	4008	4055	4087
11	Bisco x -9	DMR 411	BISCO BIO-SCIENCES	4014	4032	4090
12	HKH 402	DMR 412	KARNAL,CCSAU	4026	4058	4074
13	HKH 408	DMR 413	KARNAL,CCSAU	4027	4056	4077
14	KH-274	DMR 414	KANCHAN GANGA SEED COMP.	4029	4049	4078
15	KMH-2689	DMR 415	KAVERI SEED COMP. LTD.	4006	4045	4083
16	KMH-2700(25K45)	DMR 416	KAVERI SEED COMP. LTD.	4018	4040	4063
17	NK 6607	DMR 417	SYGENTA INDIA LTD.	4001	4057	4075
18	S 7700	DMR 418	SYGENTA INDIA LTD.	4025	4031	4071
19	S 7720	DMR 419	SYGENTA INDIA LTD.	4003	4037	4068
20	RJ-2020	DMR 420	RJ Biotech Pvt Ltd	4023	4046	4084
21	RJMH-2 By 1	DMR 421	RJ Biotech Pvt Ltd	4004	4034	4081
22	A 7503	DMR 422		4007	4036	4080
23	PRO 380	DMR 423		4019	4052	4072
24	DHM 117	DMR 424		4030	4042	4085
25	SEEDTECH 2324 (C)	DMR 425		4024	4035	4066
26	BULAND (C)	DMR 426		4002	4044	4089
27	BIO 9681 (C)	DMR 427		4028	4039	4070
28	NMH-1242	DMR 428	NUZIVEEDU SEEDS	4009	4033	4073
29	BIO 151	DMR 429	BIOSEED RESEARCH INDIA PVT I	4016	4054	4065
30	BIO 9637 (C)	DMR 430		4011	4051	4076

TRIAL NO. 7 : AET II - LATE
MATURITY : LATE
YEAR : 2011-2012
SEASON : RABI
NO. OF ROWS : 6
ROW LENGTH (METRE) : 4
NO. OF REPLICATIONS : 3
NO. OF LOCATIONS : 19
LOCATIONS: GOSSAIGAON, LUDHIANA, KARNAL, DELHI, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, VARANASI, RANCHI, BHUBANESHWAR, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, ARBHAVI, VAGARAI, BANSWARA, GODHRA

				REPLICATIONS		
E.No.	**Entry Name**	**DMR Code**	**INSTITUTE/ORIGIN**	**R I**	**R II**	**R III**
1	BIO 265	DMR 701	BIOSEED RESEARCH INDIA PVT I	7005	7020	7028
2	DMRNH 2	DMR 702	WNC,DMR,HYDERABAD	7002	7013	7027
3	115-08-01	DMR 703	KANCHAN GANGA SEED COMP.	7004	7019	7023
4	35A019	DMR 704	PIONEER OVERSEAS CORP.	7007	7018	7030
5	PRO 379	DMR 705	BAYER BIOSCIENCE	7008	7014	7026
6	HM 11 (C)	DMR 706	CCSHAU, RRS, UCHANI, KARNAL	7010	7017	7029
7	HM 10 (C)	DMR 707	CCSHAU, RRS, UCHANI, KARNAL	7003	7011	7024
8	SEEDTECH 2324 (C)	DMR 708	BISCO BIOSCIENCE	7001	7016	7022
9	BULAND (C)	DMR 709	PAU, LUDHIANA	7009	7012	7025
10	BIO 9681 (C)	DMR 710	BIOSEED RESEARCH INDIA PVT I	7006	7015	7021

TRIAL NO. QPM 1 : IET
MATURITY : LATE/MEDIUM/EARLY
YEAR : 2011-2012
SEASON : RABI
NO. OF ROWS : 4
ROW LENGTH (METRE) : 4
NO. OF REPLICATIONS : 3
NO. OF LOCATIONS : 19
LOCATIONS: GOSSAIGAON, LUDHIANA, KARNAL, DELHI, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, VARANASI, RANCHI, BHUBANESHWAR, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, ARBHAVI, VAGARAI, BANSWARA, GODHRA

				REPLICATIONS		
E.No.	**Entry Name**	**DMR Code**	**INSTITUTE/ORIGIN**	**R I**	**R II**	**R III**
1	VEHQ 11-1	DMR 801	BHU, Varanasi	8005	8015	8024
2	VEHQ 11-2	DMR 802	BHU, Varanasi	8007	8016	8019
3	HQPM 1 (C)	DMR 803	CCS HAU, RRS, Karnal	8004	8010	8017
4	HQPM 5 (C)	DMR 804	CCS HAU, RRS, Karnal	8003	8009	8023
5	HQPM 7 (C)	DMR 805	CCS HAU, RRS, Karnal	8002	8014	8018
6	SEEDTECH 2324 (C)	DMR 806	BISCO BIOSCIENCE	8008	8012	8021
7	PMH 1 (C)	DMR 807	PAU, LUDHIANA	8006	8011	8020
8	BIO 9681 (C)	DMR 808	BIO SEED	8001	8013	8022

TRIAL No. 11	**:**	PATHOLOGY IET, AET I&II Year
MATURITY	**:**	LATE, MADIUM, EARLY
YEAR	**:**	2011-2012
SEASON	**:**	RABI
NO. OF ROWS	**:**	2
ROW LENGTH (METRE)	**:**	4
NO. OF REPLICATION	**:**	2
PATHOLOGY LOCATIONS	**:**	8
		LUDHIANA, DHAULAKUAN, DHOLI, HYDERABAD, ARBHAVI COIMBATORE, MANDYA, MANDYA, KARNAL

				REPLICATIONS	
E.No.	**Entry Name**	**DMR Code**	**INSTITUTE/ORIGIN**	**R I**	**R II**
			AET II Late		
1	BIO 265	DMR 301		3152	3188
2	DMRNH 2	DMR 302		3125	3211
3	115-08-01	DMR 303		3132	3221
4	35A019	DMR 304		3168	3187
5	PRO 379	DMR 305		3142	3215
			AET I Late		
6	CMH08-239	DMR 306		3105	3193
7	CMH08-259	DMR 307		3147	3226
8	CMH08-282	DMR 308		3139	3218
9	CMH08-287	DMR 309		3108	3234
10	NMH-731	DMR 310		3133	3204
11	NMH-713	DMR 311		3117	3266
12	NMH-920	DMR 312		3124	3251
13	NMH-666	DMR 313		3127	3213
14	Bisco New 704	DMR 314		3180	3222
15	Bisco x -5129	DMR 315		3144	3247
16	Bisco x -9	DMR 316		3159	3191
17	HKH 402	DMR 317		3109	3245
18	HKH 408	DMR 318		3153	3228
19	KH-274	DMR 319		3111	3232
20	KMH-2689	DMR 320		3110	3243
21	KMH-2700(25K45)	DMR 321		3129	3252
22	NK 6607	DMR 322		3177	3216
23	S 7700	DMR 323		3182	3248
24	S 7720	DMR 324		3170	3241
25	RJ-2020	DMR 325		3156	3237
26	RJMH-2 By 1	DMR 326		3175	3239
27	A 7503	DMR 327		3118	3189
28	PRO 380	DMR 328		3120	3256
29	DHM 117	DMR 329		3149	3262
			Checks - Late		
30	HM 11 (C)	DMR 330		3121	3255
31	HM 10 (C)	DMR 331		3138	3185
32	SEED TECH 2324 (C)	DMR 332		3130	3259
33	BULAND (C)	DMR 333		3176	3250
34	BIO 9681 (C)	DMR 334		3140	3230
			AET I Medium		
35	NMH-1242	DMR 335		3104	3254
36	BIO 151	DMR 336		3128	3229
			Checks - Medium		
37	BIO 9637 (C)	DMR 337		3166	3227

			IET Late		
38	NMH-1247	DMR 338		3148	3257
39	Bisco x -5141	DMR 339		3106	3209
40	HKH-415	DMR 340		3161	3265
41	HKH-416	DMR 341		3122	3217
42	HKH-417	DMR 342		3157	3192
43	KH-B 54	DMR 343		3119	3223
44	KH-3479	DMR 344		3162	3268
45	BIO 237	DMR 345		3146	3249
46	KMH-7148	DMR 346		3114	3198
47	HTMH5105	DMR 347		3181	3235
48	WNZPBTS 1	DMR 348		3135	3258
49	JH-273	DMR 349		3134	3253
50	JH-289	DMR 350		3115	3194
51	JH-270	DMR 351		3113	3260
52	JH-342	DMR 352		3172	3212
53	JH-291	DMR 353		3160	3267
54	JH-290	DMR 354		3169	3236
55	JH-367	DMR 355		3126	3244
56	JH-31512	DMR 356		3155	3246
57	JH-31512	DMR 357		3151	3264
58	JH-31596	DMR 358		3143	3201
59	X35B352	DMR 359		3123	3205
60	X35B339	DMR 360		3102	3203
61	X35B349	DMR 361		3136	3263
62	X35B348	DMR 362		3131	3219
63	X35B361	DMR 363		3141	3238
64	A 7501	DMR 364		3183	3210
65	PRO 386	DMR 365		3116	3240
66	PRO 385	DMR 366		3154	3224
			IET Medium		
67	VaMH 08013	DMR 367		3184	3233
68	VaMH 08014	DMR 368		3179	3242
69	HKH 323	DMR 369		3101	3206
70	HKH 324	DMR 370		3103	3208
71	HKH 325	DMR 371		3178	3186
72	HKH 326	DMR 372		3150	3190
73	HKH 327	DMR 373		3107	3207
74	HKH 328	DMR 374		3174	3231
75	KH-6847	DMR 375		3112	3202
76	VEH 11-1	DMR 376		3145	3220
			IET Early		
77	HKH 329	DMR 377		3171	3214
78	HKH 330	DMR 378		3167	3261
			Checks - Early		
79	PRAKASH (C)	DMR 379		3165	3199
			QPM 1		
80	VEHQ 11-1	DMR 380		3173	3225
81	VEHQ 11-2	DMR 381		3137	3195
			Checks - QPM 1		
82	HQPM 1 (C)	DMR 382		3163	3196
83	HQPM 5 (C)	DMR 383		3158	3197
84	HQPM 7 (C)	DMR 384		3164	3200

TRIAL No. 11	**:**	ENTOMOLOGY AET I&II Year
MATURITY	**:**	LATE, MADIUM, EARLY
YEAR	**:**	2011-2012
SEASON	**:**	RABI
NO. OF ROWS	**:**	2
ROW LENGTH (METRE)	**:**	4
NO. OF REPLICATION	**:**	2
ENTOMOLOGY LOCATIONS	**:**	2
		HYDERABAD, KOLHAPUR

				REPLICATIONS	
E.No.	**Entry Name**	**DMR Code**	**INSTITUTE/ORIGIN**	**R I**	**R II**
			AET II Late		
1	BIO 265	DMR 501		3017	3057
2	DMRNH 2	DMR 502		3037	3069
3	115-08-01	DMR 503		3030	3059
4	35A019	DMR 504		3022	3066
5	PRO 379	DMR 505		3008	3065
			AET I Late		
6	CMH08-239	DMR 506		3021	3042
7	CMH08-259	DMR 507		3026	3040
8	CMH08-282	DMR 508		3009	3047
9	CMH08-287	DMR 509		3001	3049
10	NMH-731	DMR 510		3007	3039
11	NMH-713	DMR 511		3005	3056
12	NMH-920	DMR 512		3020	3063
13	NMH-666	DMR 513		3014	3043
14	Bisco New 704	DMR 514		3006	3061
15	Bisco x -5129	DMR 515		3028	3070
16	Bisco x -9	DMR 516		3010	3045
17	HKH 402	DMR 517		3015	3060
18	HKH 408	DMR 518		3036	3074
19	KH-274	DMR 519		3029	3041
20	KMH-2689	DMR 520		3033	3072
21	KMH-2700(25K45)	DMR 521		3024	3044
22	NK 6607	DMR 522		3031	3052
23	S 7700	DMR 523		3011	3053
24	S 7720	DMR 524		3023	3058
25	RJ-2020	DMR 525		3018	3055
26	RJMH-2 By 1	DMR 526		3019	3038
27	A 7503	DMR 527		3004	3071
28	PRO 380	DMR 528		3003	3064
29	DHM 117	DMR 529		3002	3048
			Checks - Late		
30	HM 11 (C)	DMR 530		3027	3051
31	HM 10 (C)	DMR 531		3016	3050
32	SEED TECH 2324 (C)	DMR 532		3013	3068
33	BULAND (C)	DMR 533		3032	3073
34	BIO 9681 (C)	DMR 534		3035	3054
			AET I Medium		
35	NMH-1242	DMR 535		3012	3067
36	BIO 151	DMR 536		3034	3062
			Checks - Medium		
37	BIO 9637 (C)	DMR 537		3025	3046

TRIAL NO. N X G : AET II - N X G - LATE
MATURITY : LATE
YEAR : 2011-2012
SEASON : RABI
NO. OF REPLICATIONS : 3
NO. OF LOCATIONS : 14
LOCATIONS: GOSSAIGAON, LUDHIANA, KARNAL, DELHI, PANTNAGAR, KANPUR, BAHRAICH DHOLI, VARANASI, RANCHI, BHUBANESHWAR, KARIMNAGAR, KOLHAPUR MANDYA, COIMBATORE, ARBHAVI, VAGARAI, BANSWARA, GODHRA

E.No.	Entry Name	DMR Code	INSTITUTE/ORIGIN
1	BIO 265	DMR 701	BIOSEED RESEARCH INDIA PVT LTD
2	115-08-01	DMR 703	KANCHAN GANGA SEED COMP.
3	35A019	DMR 704	PIONEER OVERSEAS CORP.
4	PRO 379	DMR 705	BAYER BIOSCIENCE
5	SEED TECH 2324 (C)	DMR 708	BISCO BIOSCIENCE
6	BULAND (C)	DMR 709	PAU, LUDHIANA
7	BIO 9681 (C)	DMR 710	BIOSEED RESEARCH INDIA PVT LTD
8	DMRNH 2	DMR 702	WNC,DMR,HYDERABAD
9	HM 11 (C)	DMR 706	CCSHAU, RRS, UCHANI, KARNAL
10	HM 10 (C)	DMR 707	CCSHAU, RRS, UCHANI, KARNAL

BREEDING

TABLE No. 1
PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT LUDHIANA, KARNAL, PANTNAGAR, DELHI, KANPUR, BAHRAICH, DHOLI, VARANASI, BHUBANESHWAR, ARBHAVI, KARIMNAGAR, KOLHAPUR, COIMBATORE, VAGARAI, BANSWARA, GODHRA IN IET TRIAL NO. TR01(IET-L) DURING RABI 2011-12.

		GRAIN YIELD (kg/ha) AT 15% MOISTURE															
Sl No	PEDIGREE	LUDH	R	KARN	R	PANT	R	DELH	R	KANP	R	ZN 2 MEAN	R	BAHR	R	DHOL	R
1	NMH-1247	8396	11	13037	6	9283	17	6044	20	9826	3	9317	7	11418	1	4947	27
2	Bisco x5141	6969	24	10529	27	11280	4	6952	9	8029	18	8752	19	9423	7	5476	16
3	HKH-415	5574	30	7646	31	7344	29	5369	25	8563	14	6899	31	7863	24	5476	15
4	HKH-416	8307	13	9192	30	8775	22	5333	27	8432	15	8008	28	7332	27	4540	32
5	HKH-417	6807	26	11721	17	9398	16	6312	15	7582	23	8364	24	8023	20	4834	30
6	KH-B 54	4968	31	11329	21	8119	28	5634	23	7114	31	7433	30	9506	5	5434	18
7	KH-3479	7327	20	10554	26	11958	2	5832	22	9858	2	9106	11	9598	4	6296	1
8	BIO 237	12233	1	16115	1	11622	3	6059	19	7356	27	10677	1	9606	3	5344	19
9	KMH-7148	8742	9	15420	2	8144	26	6578	13	10027	1	9782	3	9191	9	5455	17
10	HTMH5105	8072	14	11216	23	9730	15	6786	11	8641	13	8889	16	6954	29	5516	13
11	WNZPBTS 1	2633	32	7282	32	5831	32	3429	32	7619	22	5359	32	8448	16	4793	31
12	JH-273	9706	3	13108	5	8127	27	5390	24	9820	4	9230	9	8484	15	4998	26
13	JH-289	7238	22	11533	19	8182	25	4940	28	7724	21	7923	29	7979	22	4900	28
14	JH-270	8335	12	11115	24	10015	13	6275	17	9744	5	9097	12	6925	30	5513	14
15	JH-342	8065	15	12340	11	8778	21	5362	26	6833	32	8276	25	6866	31	5338	20
16	JH-291	9329	6	11105	25	10625	8	5858	21	7531	25	8890	15	7904	23	5199	22
17	JH-290	9063	8	11390	20	10363	11	6678	12	7825	19	9064	13	8487	14	5916	4
18	JH-367	7283	21	13017	7	8707	24	6395	14	7226	29	8526	23	7726	25	5565	11
19	JH-31512	8007	16	11593	18	10280	12	6277	16	9550	6	9142	10	8006	21	5612	9
20	JH-31512	9583	5	12757	8	8747	23	4258	31	7759	20	8621	21	8211	17	5629	8

GRAIN YIELD (kg/ha) AT 15% MOISTURE

Sl No	PEDIGREE	LUDH	R	KARN	R	PANT	R	DELH	R	KANP	R	ZN 2 MEAN	R	BAHR	R	DHOL	R
21	JH-31596	6848	25	14904	3	7248	31	4480	30	9345	8	8565	22	8035	19	4856	29
22	X35B352	7826	18	9821	28	11153	5	7304	5	8331	16	8887	17	9108	10	6168	2
23	X35B339	9243	7	12369	10	13171	1	7429	4	7569	24	9956	2	9502	6	5119	23
24	X35B349	6681	27	12238	12	10795	7	7093	7	9355	7	9232	8	8937	12	5670	6
25	X35B348	7172	23	12017	15	9091	18	7079	8	8044	17	8681	20	9783	2	5936	3
26	X35B361	9670	4	12050	14	10542	9	7538	3	8680	12	9696	4	8946	11	5600	10
27	A 7501	7950	17	11328	22	10516	10	6937	10	7309	28	8808	18	8788	13	5116	24
28	PRO 386	7353	19	11855	16	9946	14	8407	1	9034	10	9319	6	6733	32	5655	7
29	PRO 385	8538	10	12586	9	8898	19	8226	2	9194	9	9489	5	9321	8	5309	21
	CHECKS																
30	SEEDTECH 2324	5954	28	13400	4	7298	30	7273	6	7179	30	8221	26	7513	26	5004	25
31	BULAND	10889	2	9324	29	10795	6	6072	18	7410	26	8898	14	7217	28	5564	12
32	BIO 9681	5668	29	12185	13	8810	20	4590	29	8926	11	8036	27	8143	18	5812	5
	Location Mean	7826		11752		9487		6193		8357		8723		8437		5393	
	Mean Stand	39		37		34		33		36		36		31		35	
	C.D. (5%)	2012		1004		1577		1621		769		1397		642		879	
	C.V. (%)	15.75		5.23		10.18		16.03		5.63		-		4.66		9.99	
	F (Prob)	0		0		0		0		0				0		0.01	
	Plot Size	4.8		6		6		6		4.8		-		4.8		4.8	
	AGRONOMY DATA																
	Sowing Date	28-11		21-11		30-11		22-11		18-12		-		21-11		30-11	
	Harvest Date	7-06		25-05		1-06		3-05		15-05		-		14-05		27-05	
	Irrigation Nos	12		7		6		11		5		-		4		-	
	Ferilizer Appli	70		150		120		150		120		-		150		150	
	Ferilizer Appli	24		60		60		75		60		-		75		70	
	Ferilizer Appli	12		60		40		75		60		-		60		50	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 22.8 %: MAND 21.7 %

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE ZN 3															
		VARA	R	BHUB	R	GOSS	R	MEAN	R	ARBH	R	KARI	R	KOLH	R	MAND	R
1	NMH-1247	13151	3	6421	11	4649	25	8984	2	10096	5	11479	8	10028	2	7444	7
2	Bisco x5141	11596	10	5648	26	3260	30	8036	13	7096	22	11405	9	7800	15	7131	11
3	HKH-415	7743	31	7200	5	5803	18	7071	29	4560	30	7339	31	6520	20	6640	17
4	HKH-416	9384	29	6070	19	6334	11	6831	31	7275	18	9002	28	5097	31	7671	3
5	HKH-417	9145	30	6429	10	4768	23	7108	27	6842	23	9781	24	6270	26	5626	31
6	KH-B 54	10892	17	6559	8	4506	27	8097	10	9740	6	9732	26	8748	9	7518	6
7	KH-3479	12486	8	6900	6	5858	16	8820	4	10116	4	12111	6	8747	10	6730	14
8	BIO 237	12744	5	7775	1	7288	5	8867	3	6015	27	10740	18	10021	3	6086	26
9	KMH-7148	14277	1	7219	4	9674	1	9036	1	-		11766	7	9112	7	5650	30
10	HTMH5105	13655	2	6019	20	4752	24	8036	12	10374	2	11089	12	10164	1	6317	23
11	WNZPBTS 1	5964	32	5016	30	2777	32	6055	32	3854	31	6648	32	4118	32	7410	9
12	JH-273	11554	11	5282	29	5971	14	7580	16	9064	11	11084	13	7903	12	6702	15
13	JH-289	9691	26	5882	23	5366	21	7113	26	7500	16	10886	15	6296	24	6194	25
14	JH-270	10301	22	5981	21	5740	19	7180	25	8750	13	10843	16	6439	22	5909	27
15	JH-342	10881	18	5324	28	3975	29	7102	28	6434	24	10016	22	7489	17	7667	4
16	JH-291	9509	27	6225	16	5152	22	7209	24	5794	28	9736	25	6299	23	7040	12
17	JH-290	9784	24	5916	22	6940	7	7526	17	7231	19	9960	23	6288	25	5878	28
18	JH-367	10955	16	4796	31	6676	10	7261	23	9267	10	7936	30	6987	18	5809	29
19	JH-31512	10337	21	5726	25	5828	17	7420	18	7775	15	10910	14	6147	27	6867	13
20	JH-31512	9711	25	5820	24	6818	9	7343	20	7219	20	9399	27	6063	28	5277	32

GRAIN YIELD (kg/ha) AT 15% MOISTURE

Sl No	PEDIGREE	VARA	R	BHUB	R	GOSS	R	ZN 3 MEAN	R	ARBH	R	KARI	R	KOLH	R	MAND	R
21	JH-31596	9471	28	5599	27	6125	12	6990	30	5764	29	8499	29	5313	30	7416	8
22	X35B352	12739	6	6273	14	9248	3	8572	5	7149	21	13807	2	8373	11	6528	20
23	X35B339	11009	15	6302	13	9471	2	7983	14	7307	17	12734	3	9086	8	7726	2
24	X35B349	11687	9	7274	3	5529	20	8392	6	9555	8	10320	21	7737	16	6455	21
25	X35B348	11369	12	6447	9	6900	8	8384	7	8867	12	12329	5	7821	14	7585	5
26	X35B361	12885	4	6103	18	7409	4	8384	8	9484	9	16990	1	9197	6	6340	22
27	A 7501	11222	14	7338	2	5963	15	8116	9	9678	7	10359	20	9786	5	6530	19
28	PRO 386	12513	7	4195	32	7007	6	7274	22	10276	3	11110	11	6960	19	6604	18
29	PRO 385	11322	13	6263	15	5975	13	8054	11	10665	1	12430	4	9940	4	6217	24
	CHECKS																
30	SEEDTECH 2324	10573	19	6358	12	4414	28	7362	19	8354	14	11204	10	6053	29	8031	1
31	BULAND	9868	23	6704	7	3244	31	7338	21	6051	26	10803	17	6471	21	7321	10
32	BIO 9681	10451	20	6124	17	4556	26	7632	15	6298	25	10692	19	7828	13	6681	16
	Location Mean	10902		6162		5874		7724		7885		10723		7534		6719	
	Mean Stand	39		31		39		34		34		34		34		34	
	C.D. (5%)	1496		228		2183		811		2224		755		1618		2376	
	C.V. (%)	8.4		2.26		22.77		-		17.26		4.31		13.16		21.66	
	F (Prob)	0		0		0				0		0		0		0.741	
	Plot Size	4.8		5.1		4.8		-		6		4.8		6		5.6	
	AGRONOMY DATA																
	Sowing Date	30-11		6-12		23-11		-		22-11		25-11		16-12		7-12	
	Harvest Date	5-05		23-04		21-05		-		25-04		28-03		14-05		4-05	
	Irrigation Nos	-		12		3		-		8		-		-		12	
	Ferilizer Appli	150		120		80		-		150		-		120		150	
	Ferilizer Appli	75		60		40		-		75		-		60		75	
	Ferilizer Appli	60		60		40		-		37.5		-		40		40	

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE				ZN 4						ZN 5		OV'L	
		COIM	R	VAGA	R	MEAN	R	BANS	R	GODH	R	MEAN	R	MEAN	R
1	NMH-1247	13416	3	8698	4	10743	2	9645	8	13190	2	11417	1	9942	2
2	Bisco x5141	12912	6	6841	21	9211	15	8791	12	7852	28	8321	22	8662	16
3	HKH-415	8620	29	5707	29	6549	30	5956	28	6430	31	6193	31	6744	31
4	HKH-416	7447	31	5923	27	6949	29	5130	30	8935	19	7033	28	7261	30
5	HKH-417	8753	28	5548	30	7439	28	7008	25	8497	23	7752	26	7684	28
6	KH-B 54	11857	16	5332	31	9082	16	8196	18	9852	14	9024	17	8313	18
7	KH-3479	12524	9	7929	7	10285	7	8168	19	12261	4	10215	6	9542	7
8	BIO 237	12059	14	8521	5	9471	12	8354	16	11450	5	9902	9	9751	4
9	KMH-7148	12912	5	9096	3	10722	3	9723	7	9699	15	9711	11	9824	3
10	HTMH5105	12142	13	7457	12	10245	8	8363	15	10300	9	9332	15	9155	10
11	WNZPBTS 1	6299	32	5717	28	5327	32	4071	32	3416	32	3744	32	5321	32
12	JH-273	11127	19	7130	16	9261	14	7333	23	11402	6	9368	14	8845	14
13	JH-289	10313	26	6828	22	8365	22	7660	21	10175	11	8917	18	7983	27
14	JH-270	10220	27	7643	9	8779	17	9879	6	12903	3	11391	2	8805	15
15	JH-342	10766	23	7096	17	8360	23	9159	11	7822	29	8490	20	8036	26
16	JH-291	11381	17	6858	20	8014	27	8771	13	8602	21	8686	19	8170	22
17	JH-290	10945	21	6043	26	8093	26	5488	29	7787	30	6638	29	8073	25
18	JH-367	11083	20	7646	8	8584	21	6021	27	10035	12	8028	25	8165	23
19	JH-31512	10849	22	7513	11	8639	18	6726	26	8511	22	7619	27	8364	17
20	JH-31512	12446	11	6367	23	8299	24	8625	14	8185	26	8405	21	8174	21

GRAIN YIELD (kg/ha) AT 15% MOISTURE

Sl No	PEDIGREE	COIM	R	VAGA	R	ZN 4 MEAN	R	BANS	R	GODH	R	ZN 5 MEAN	R	OV'L MEAN	R
21	JH-31596	7549	30	5316	32	6488	31	5038	31	7965	27	6502	30	7264	29
22	X35B352	14346	1	9381	2	10611	4	11122	2	8933	20	10027	8	9490	8
23	X35B339	14108	2	9513	1	10550	5	10996	3	9590	17	10293	5	9691	5
24	X35B349	11948	15	7522	10	9416	13	10011	4	9659	16	9835	10	9155	9
25	X35B348	12504	10	7020	18	9708	10	9985	5	10211	10	10098	7	9105	11
26	X35B361	13359	4	7427	14	11291	1	11286	1	10715	7	11000	3	10030	1
27	A 7501	12602	8	7156	15	9916	9	9415	10	9949	13	9682	12	9091	12
28	PRO 386	12226	12	7446	13	9604	11	7494	22	10594	8	9044	16	8862	13
29	PRO 385	12691	7	6178	24	10381	6	7299	24	14024	1	10661	4	9555	6
	CHECKS														
30	SEEDTECH 2324	10456	24	6980	19	8609	20	9453	9	9549	18	9501	13	8288	19
31	BULAND	11316	18	6133	25	8155	25	8309	17	8295	25	8302	23	8201	20
32	BIO 9681	10329	25	8018	6	8633	19	8111	20	8393	24	8252	24	8149	24
	Location Mean	11297		7124		8913		8175		9537		8856		8549	
	Mean Stand	32		26		32		28		37		32		34	
	C.D. (5%)	717		915		1246		1768		1671		1719		1244	
	C.V. (%)	3.89		7.87		-		13.24		10.73		-		-	
	F (Prob)	0		0				0		0					
	Plot Size	4.8		4.8		-		4.8		4.8		-		-	
	AGRONOMY DATA														
	Sowing Date	5-01		2-01		-		5-12		26-11		-		-	
	Harvest Date	2-05		9-05		-		12-05		21-04		-		-	
	Irrigation Nos	10		11		-		6		9		-		-	
	Ferilizer Appli	150		200		-		150		150		-		-	
	Ferilizer Appli	75		75		-		80		60		-		-	
	Ferilizer Appli	75		75		-		-		-		-		-	

TABLE No.1(Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE SEEDTECH 2324											
		LUDH	KARN	PANT	DELH	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 MEAN
1	NMH-1247	41	-	27.2	-	36.9	13.3	52	-	24.4	1	5.3	22
2	Bisco x5141	17	-	54.6	-	11.8	6.5	25.4	9.4	9.7	-	-	9.2
3	HKH-415	-	-	0.6	-	19.3	-	4.7	9.4	-	13.2	31.5	-
4	HKH-416	39.5	-	20.2	-	17.4	-	-	-	-	-	43.5	-
5	HKH-417	14.3	-	28.8	-	5.6	1.7	6.8	-	-	1.1	8	-
6	KH-B 54	-	-	11.2	-	-	-	26.5	8.6	3	3.2	2.1	10
7	KH-3479	23	-	63.9	-	37.3	10.8	27.8	25.8	18.1	8.5	32.7	19.8
8	BIO 237	105.5	20.3	59.3	-	2.5	29.9	27.9	6.8	20.5	22.3	65.1	20.4
9	KMH-7148	46.8	15.1	11.6	-	39.7	19	22.3	9	35	13.5	119.2	22.7
10	HTMH5105	35.6	-	33.3	-	20.4	8.1	-	10.2	29.2	-	7.7	9.2
11	WNZPBTS 1	-	-	-	-	6.1	-	12.4	-	-	-	-	-
12	JH-273	63	-	11.4	-	36.8	12.3	12.9	-	9.3	-	35.3	3
13	JH-289	21.6	-	12.1	-	7.6	-	6.2	-	-	-	21.6	-
14	JH-270	40	-	37.2	-	35.7	10.7	-	10.2	-	-	30	-
15	JH-342	35.5	-	20.3	-	-	0.7	-	6.7	2.9	-	-	-
16	JH-291	56.7	-	45.6	-	4.9	8.1	5.2	3.9	-	-	16.7	-
17	JH-290	52.2	-	42	-	9	10.3	13	18.2	-	-	57.2	2.2
18	JH-367	22.3	-	19.3	-	0.6	3.7	2.8	11.2	3.6	-	51.3	-
19	JH-31512	34.5	-	40.9	-	33	11.2	6.6	12.2	-	-	32	0.8
20	JH-31512	60.9	-	19.9	-	8.1	4.9	9.3	12.5	-	-	54.5	-
21	JH-31596	15	11.2	-	-	30.2	4.2	7	-	-	-	38.8	-
22	X35B352	31.4	-	52.8	0.4	16	8.1	21.2	23.3	20.5	-	109.5	16.4
23	X35B339	55.2	-	80.5	2.1	5.4	21.1	26.5	2.3	4.1	-	114.6	8.4
24	X35B349	12.2	-	47.9	-	30.3	12.3	19	13.3	10.5	14.4	25.3	14
25	X35B348	20.5	-	24.6	-	12	5.6	30.2	18.6	7.5	1.4	56.3	13.9
26	X35B361	62.4	-	44.5	3.6	20.9	17.9	19.1	11.9	21.9	-	67.9	13.9
27	A 7501	33.5	-	44.1	-	1.8	7.1	17	2.2	6.1	15.4	35.1	10.2
28	PRO 386	23.5	-	36.3	15.6	25.8	13.4	-	13	18.3	-	58.8	-
29	PRO 385	43.4	-	21.9	13.1	28.1	15.4	24.1	6.1	7.1	-	35.4	9.4
	CHECKS												
30	SEEDTECH 2324	-	-	-	-	-	-	-	-	-	-	-	-
31	BULAND	82.9	-	47.9	-	3.2	8.2	-	11.2	-	5.4	-	-
32	BIO 9681	-	-	20.7	-	24.3	-	8.4	16.1	-	-	3.2	3.7

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 22.8 %: MAND 21.7 %

TABLE No.1(Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE SEEDTECH 2324						ZN 4 MEAN			ZN 5 MEAN	OV'L MEAN
		ARBH	KARI	KOLH	MAND	COIM	VAGA		BANS	GODH		
1	NMH-1247	20.9	2.5	65.7	-	28.3	24.6	24.8	2	38.1	20.2	20
2	Bisco x5141	-	1.8	28.9	-	23.5	-	7	-	-	-	4.5
3	HKH-415	-	-	7.7	-	-	-	-	-	-	-	-
4	HKH-416	-	-	-	-	-	-	-	-	-	-	-
5	HKH-417	-	-	3.6	-	-	-	-	-	-	-	-
6	KH-B 54	16.6	-	44.5	-	13.4	-	5.5	-	3.2	-	0.3
7	KH-3479	21.1	8.1	44.5	-	19.8	13.6	19.5	-	28.4	7.5	15.1
8	BIO 237	-	-	65.6	-	15.3	22.1	10	-	19.9	4.2	17.7
9	KMH-7148	-	5	50.5	-	23.5	30.3	24.5	2.9	1.6	2.2	18.5
10	HTMH5105	24.2	-	67.9	-	16.1	6.8	19	-	7.9	-	10.5
11	WNZPBTS 1	-	-	-	-	-	-	-	-	-	-	-
12	JH-273	8.5	-	30.6	-	6.4	2.1	7.6	-	19.4	-	6.7
13	JH-289	-	-	4	-	-	-	-	-	6.6	-	-
14	JH-270	4.7	-	6.4	-	-	9.5	2	4.5	35.1	19.9	6.2
15	JH-342	-	-	23.7	-	3	1.7	-	-	-	-	-
16	JH-291	-	-	4.1	-	8.8	-	-	-	-	-	-
17	JH-290	-	-	3.9	-	4.7	-	-	-	-	-	-
18	JH-367	10.9	-	15.4	-	6	9.5	-	-	5.1	-	-
19	JH-31512	-	-	1.6	-	3.8	7.6	0.3	-	-	-	0.9
20	JH-31512	-	-	0.2	-	19	-	-	-	-	-	-
21	JH-31596	-	-	-	-	-	-	-	-	-	-	-
22	X35B352	-	23.2	38.3	-	37.2	34.4	23.3	17.7	-	5.5	14.5
23	X35B339	-	13.7	50.1	-	34.9	36.3	22.5	16.3	0.4	8.3	16.9
24	X35B349	14.4	-	27.8	-	14.3	7.8	9.4	5.9	1.1	3.5	10.5
25	X35B348	6.1	10	29.2	-	19.6	0.6	12.8	5.6	6.9	6.3	9.9
26	X35B361	13.5	51.6	51.9	-	27.8	6.4	31.2	19.4	12.2	15.8	21
27	A 7501	15.8	-	61.7	-	20.5	2.5	15.2	-	4.2	1.9	9.7
28	PRO 386	23	-	15	-	16.9	6.7	11.5	-	10.9	-	6.9
29	PRO 385	27.7	10.9	64.2	-	21.4	-	20.6	-	46.9	12.2	15.3
	CHECKS											
30	SEEDTECH 2324	-	-	-	-	-	-	-	-	-	-	-
31	BULAND	-	-	6.9	-	8.2	-	-	-	-	-	-
32	BIO 9681	-	-	29.3	-	-	14.9	0.3	-	-	-	-

TABLE No.1(Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BULAND					ZN 2 MEAN						ZN 3 MEAN
		LUDH	KARN	PANT	DELH	KANP		BAHR	DHOL	VARA	BHUB	GOSS	
1	NMH-1247	-	39.8	-	-	32.6	4.7	58.2	-	33.3	-	43.3	22.4
2	Bisco x5141	-	12.9	4.5	14.5	8.3	-	30.6	-	17.5	-	0.5	9.5
3	HKH-415	-	-	-	-	15.6	-	9	-	-	7.4	78.9	-
4	HKH-416	-	-	-	-	13.8	-	1.6	-	-	-	95.3	-
5	HKH-417	-	25.7	-	3.9	2.3	-	11.2	-	-	-	47	-
6	KH-B 54	-	21.5	-	-	-	-	31.7	-	10.4	-	38.9	10.3
7	KH-3479	-	13.2	10.8	-	33	2.3	33	13.2	26.5	2.9	80.6	20.2
8	BIO 237	12.4	72.8	7.7	-	-	20	33.1	-	29.1	16	124.7	20.8
9	KMH-7148	-	65.4	-	8.3	35.3	9.9	27.4	-	44.7	7.7	198.2	23.1
10	HTMH5105	-	20.3	-	11.8	16.6	-	-	-	38.4	-	46.5	9.5
11	WNZPBTS 1	-	-	-	-	2.8	-	17.1	-	-	-	-	-
12	JH-273	-	40.6	-	-	32.5	3.7	17.6	-	17.1	-	84.1	3.3
13	JH-289	-	23.7	-	-	4.2	-	10.6	-	-	-	65.4	-
14	JH-270	-	19.2	-	3.3	31.5	2.2	-	-	4.4	-	77	-
15	JH-342	-	32.3	-	-	-	-	-	-	10.3	-	22.5	-
16	JH-291	-	19.1	-	-	1.6	-	9.5	-	-	-	58.8	-
17	JH-290	-	22.2	-	10	5.6	1.9	17.6	6.3	-	-	114	2.6
18	JH-367	-	39.6	-	5.3	-	-	7.1	0	11	-	105.8	-
19	JH-31512	-	24.3	-	3.4	28.9	2.7	10.9	0.9	4.7	-	79.7	1.1
20	JH-31512	-	36.8	-	-	4.7	-	13.8	1.2	-	-	110.2	0.1
21	JH-31596	-	59.8	-	-	26.1	-	11.3	-	-	-	88.8	-
22	X35B352	-	5.3	3.3	20.3	12.4	-	26.2	10.9	29.1	-	185.1	16.8
23	X35B339	-	32.7	22	22.4	2.1	11.9	31.7	-	11.6	-	192	8.8
24	X35B349	-	31.3	-	16.8	26.2	3.8	23.8	1.9	18.4	8.5	70.5	14.4
25	X35B348	-	28.9	-	16.6	8.6	-	35.6	6.7	15.2	-	112.7	14.2
26	X35B361	-	29.2	-	24.1	17.1	9	24	0.7	30.6	-	128.4	14.2
27	A 7501	-	21.5	-	14.2	-	-	21.8	-	13.7	9.5	83.8	10.6
28	PRO 386	-	27.2	-	38.4	21.9	4.7	-	1.6	26.8	-	116	-
29	PRO 385	-	35	-	35.5	24.1	6.6	29.2	-	14.7	-	84.2	9.7
	CHECKS												
30	SEEDTECH 2324	-	43.7	-	19.8	-	-	4.1	-	7.1	-	36.1	0.3
31	BULAND	-	-	-	-	-	-	-	-	-	-	-	-
32	BIO 9681	-	30.7	-	-	20.5	-	12.8	4.5	5.9	-	40.4	4

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 22.8 %: MAND 21.7 %

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BULAND										
		ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	NMH-1247	66.8	6.3	55	1.7	18.6	41.8	31.7	16.1	59	37.5	21.2
2	Bisco x5141	17.3	5.6	20.5	-	14.1	11.6	12.9	5.8	-	0.2	5.6
3	HKH-415	-	-	0.8	-	-	-	-	-	-	-	-
4	HKH-416	20.2	-	-	4.8	-	-	-	-	7.7	-	-
5	HKH-417	13.1	-	-	-	-	-	-	-	2.4	-	-
6	KH-B 54	60.9	-	35.2	2.7	4.8	-	11.4	-	18.8	8.7	1.4
7	KH-3479	67.2	12.1	35.2	-	10.7	29.3	26.1	-	47.8	23	16.3
8	BIO 237	-	-	54.9	-	6.6	38.9	16.1	0.5	38	19.3	18.9
9	KMH-7148	-	8.9	40.8	-	14.1	48.3	31.5	17	16.9	17	19.8
10	HTMH5105	71.4	2.6	57.1	-	7.3	21.6	25.6	0.7	24.2	12.4	11.6
11	WNZPBTS 1	-	-	-	1.2	-	-	-	-	-	-	-
12	JH-273	49.8	2.6	22.1	-	-	16.3	13.6	-	37.5	12.8	7.8
13	JH-289	23.9	0.8	-	-	-	11.3	2.6	-	22.7	7.4	-
14	JH-270	44.6	0.4	-	-	-	24.6	7.7	18.9	55.5	37.2	7.4
15	JH-342	6.3	-	15.7	4.7	-	15.7	2.5	10.2	-	2.3	-
16	JH-291	-	-	-	-	0.6	11.8	-	5.6	3.7	4.6	-
17	JH-290	19.5	-	-	-	-	-	-	-	-	-	-
18	JH-367	53.1	-	8	-	-	24.7	5.3	-	21	-	-
19	JH-31512	28.5	1	-	-	-	22.5	5.9	-	2.6	-	2
20	JH-31512	19.3	-	-	-	10	3.8	1.8	3.8	-	1.2	-
21	JH-31596	-	-	-	1.3	-	-	-	-	-	-	-
22	X35B352	18.1	27.8	29.4	-	26.8	53	30.1	33.9	7.7	20.8	15.7
23	X35B339	20.8	17.9	40.4	5.5	24.7	55.1	29.4	32.3	15.6	24	18.2
24	X35B349	57.9	-	19.6	-	5.6	22.7	15.5	20.5	16.4	18.5	11.6
25	X35B348	46.5	14.1	20.9	3.6	10.5	14.5	19	20.2	23.1	21.6	11
26	X35B361	56.7	57.3	42.1	-	18	21.1	38.5	35.8	29.2	32.5	22.3
27	A 7501	59.9	-	51.2	-	11.4	16.7	21.6	13.3	19.9	16.6	10.8
28	PRO 386	69.8	2.8	7.6	-	8	21.4	17.8	-	27.7	8.9	8.1
29	PRO 385	76.2	15.1	53.6	-	12.2	0.7	27.3	-	69.1	28.4	16.5
	CHECKS											
30	SEEDTECH 2324	38	3.7	-	9.7	-	13.8	5.6	13.8	15.1	14.4	1.1
31	BULAND	-	-	-	-	-	-	-	-	-	-	-
32	BIO 9681	4.1	-	21	-	-	30.7	5.9	-	1.2	-	-

TABLE No.1(Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9681											
		LUDH	KARN	PANT	DELH	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 MEAN
1	NMH-1247	48.1	7	5.4	31.7	10.1	15.9	40.2	-	25.8	4.8	2.1	17.7
2	Bisco x5141	23	-	28	51.5	-	8.9	15.7	-	11	-	-	5.3
3	HKH-415	-	-	-	17	-	-	-	-	-	17.6	27.4	-
4	HKH-416	46.6	-	-	16.2	-	-	-	-	-	-	39	-
5	HKH-417	20.1	-	6.7	37.5	-	4.1	-	-	-	5	4.7	-
6	KH-B 54	-	-	-	22.8	-	-	16.7	-	4.2	7.1	-	6.1
7	KH-3479	29.3	-	35.7	27.1	10.4	13.3	17.9	8.3	19.5	12.7	28.6	15.6
8	BIO 237	115.9	32.2	31.9	32	-	32.9	18	-	21.9	26.9	60	16.2
9	KMH-7148	54.2	26.5	-	43.3	12.3	21.7	12.9	-	36.6	17.9	112.3	18.4
10	HTMH5105	42.4	-	10.4	47.8	-	10.6	-	-	30.7	-	4.3	5.3
11	WNZPBTS 1	-	-	-	-	-	-	3.7	-	-	-	-	-
12	JH-273	71.3	7.6	-	17.4	10	14.9	4.2	-	10.6	-	31.1	-
13	JH-289	27.7	-	-	7.6	-	-	-	-	-	-	17.8	-
14	JH-270	47.1	-	13.7	36.7	9.2	13.2	-	-	-	-	26	-
15	JH-342	42.3	1.3	-	16.8	-	3	-	-	4.1	-	-	-
16	JH-291	64.6	-	20.6	27.6	-	10.6	-	-	-	1.6	13.1	-
17	JH-290	59.9	-	17.6	45.5	-	12.8	4.2	1.8	-	-	52.3	-
18	JH-367	28.5	6.8	-	39.3	-	6.1	-	-	4.8	-	46.5	-
19	JH-31512	41.3	-	16.7	36.8	7	13.8	-	-	-	-	27.9	-
20	JH-31512	69.1	4.7	-	-	-	7.3	0.8	-	-	-	49.7	-
21	JH-31596	20.8	22.3	-	-	4.7	6.6	-	-	-	-	34.4	-
22	X35B352	38.1	-	26.6	59.1	-	10.6	11.9	6.1	21.9	2.4	103	12.3
23	X35B339	63.1	1.5	49.5	61.9	-	23.9	16.7	-	5.3	2.9	107.9	4.6
24	X35B349	17.9	0.4	22.5	54.5	4.8	14.9	9.8	-	11.8	18.8	21.4	10
25	X35B348	26.6	-	3.2	54.2	-	8	20.1	2.1	8.8	5.3	51.5	9.8
26	X35B361	70.6	-	19.7	64.2	-	20.7	9.9	-	23.3	-	62.6	9.8
27	A 7501	40.3	-	19.4	51.1	-	9.6	7.9	-	7.4	19.8	30.9	6.3
28	PRO 386	29.7	-	12.9	83.2	1.2	16	-	-	19.7	-	53.8	-
29	PRO 385	50.7	3.3	1	79.2	3	18.1	14.5	-	8.3	2.3	31.2	5.5
	CHECKS												
30	SEEDTECH 2324	5.1	10	-	58.5	-	2.3	-	-	1.2	3.8	-	-
31	BULAND	92.1	-	22.5	32.3	-	10.7	-	-	-	9.5	-	-
32	BIO 9681	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 22.8 %: MAND 21.7 %

TABLE No.1(Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9681										
		ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	NMH-1247	60.3	7.4	28.1	11.4	29.9	8.5	24.4	18.9	57.1	38.4	22
2	Bisco x5141	12.7	6.7	-	6.7	25	-	6.7	8.4	-	0.8	6.3
3	HKH-415	-	-	-	-	-	-	-	-	-	-	-
4	HKH-416	15.5	-	-	14.8	-	-	-	-	6.5	-	-
5	HKH-417	8.7	-	-	-	-	-	-	-	1.2	-	-
6	KH-B 54	54.7	-	11.7	12.5	14.8	-	5.2	1.1	17.4	9.4	2
7	KH-3479	60.6	13.3	11.7	0.7	21.2	-	19.1	0.7	46.1	23.8	17.1
8	BIO 237	-	0.5	28	-	16.7	6.3	9.7	3	36.4	20	19.7
9	KMH-7148	-	10	16.4	-	25	13.5	24.2	19.9	15.6	17.7	20.6
10	HTMH5105	64.7	3.7	29.8	-	17.6	-	18.7	3.1	22.7	13.1	12.4
11	WNZPBTS 1	-	-	-	10.9	-	-	-	-	-	-	-
12	JH-273	43.9	3.7	1	0.3	7.7	-	7.3	-	35.9	13.5	8.5
13	JH-289	19.1	1.8	-	-	-	-	-	-	21.2	8.1	-
14	JH-270	38.9	1.4	-	-	-	-	1.7	21.8	53.7	38	8.1
15	JH-342	2.2	-	-	14.8	4.2	-	-	12.9	-	2.9	-
16	JH-291	-	-	-	5.4	10.2	-	-	8.1	2.5	5.3	0.3
17	JH-290	14.8	-	-	-	6	-	-	-	-	-	-
18	JH-367	47.2	-	-	-	7.3	-	-	-	19.6	-	0.2
19	JH-31512	23.5	2	-	2.8	5	-	0.1	-	1.4	-	2.6
20	JH-31512	14.6	-	-	-	20.5	-	-	6.3	-	1.9	0.3
21	JH-31596	-	-	-	11	-	-	-	-	-	-	-
22	X35B352	13.5	29.1	7	-	38.9	17	22.9	37.1	6.4	21.5	16.5
23	X35B339	16	19.1	16.1	15.6	36.6	18.6	22.2	35.6	14.3	24.7	18.9
24	X35B349	51.7	-	-	-	15.7	-	9.1	23.4	15.1	19.2	12.4
25	X35B348	40.8	15.3	-	13.5	21.1	-	12.5	23.1	21.7	22.4	11.7
26	X35B361	50.6	58.9	17.5	-	29.3	-	30.8	39.1	27.7	33.3	23.1
27	A 7501	53.7	-	25	-	22	-	14.9	16.1	18.5	17.3	11.6
28	PRO 386	63.2	3.9	-	-	18.4	-	11.2	-	26.2	9.6	8.8
29	PRO 385	69.3	16.3	27	-	22.9	-	20.2	-	67.1	29.2	17.3
	CHECKS											
30	SEEDTECH 2324	32.7	4.8	-	20.2	1.2	-	-	16.6	13.8	15.1	1.7
31	BULAND	-	1	-	9.6	9.6	-	-	2.4	-	0.6	0.6
32	BIO 9681	-	-	-	-	-	-	-	-	-	-	-

Table No.1 (Cont...)

S.No.	PEDIGREE	MOISTURE % AT HARVEST LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 Mean
1	NMH-1247	22.2	28.5	21.1	14.2	14.0	21.4	26.7	16.3	27.2	17.3	20.8	21.7
2	Bisco x5141	27.6	26.9	18.4	15.0	15.7	22.1	26.9	17.0	28.8	16.3	18.8	21.5
3	HKH-415	28.0	29.6	21.2	14.6	14.7	23.4	26.1	15.6	27.3	16.5	22.4	21.6
4	HKH-416	24.1	28.1	20.1	16.5	13.0	21.3	24.9	16.2	25.1	20.5	20.3	21.4
5	HKH-417	25.9	28.2	21.2	14.6	13.3	22.1	26.0	15.9	26.7	17.8	21.5	21.6
6	KH-B 54	28.8	28.8	21.0	25.8	15.0	23.4	26.4	16.7	30.5	20.3	19.8	22.7
7	KH-3479	28.0	28.6	18.7	14.5	12.0	21.8	27.2	16.6	25.8	18.5	22.1	22.0
8	BIO 237	26.6	25.8	22.1	14.6	17.7	23.0	27.0	15.9	24.4	19.3	20.7	21.4
9	KMH-7148	28.6	30.7	24.3	18.9	16.3	25.0	29.4	17.1	27.1	19.6	22.7	23.2
10	HTMH5105	28.9	28.6	26.2	16.2	12.7	24.1	28.1	16.9	31.3	19.1	20.6	23.2
11	WNZPBTS 1	22.1	25.8	18.0	14.6	13.7	19.9	22.9	16.2	22.5	16.1	20.9	19.7
12	JH-273	29.0	29.3	24.5	23.4	14.3	24.3	27.4	16.8	30.5	16.3	20.0	22.2
13	JH-289	26.5	26.0	24.1	32.3	12.3	22.2	28.0	16.2	31.9	19.0	22.1	23.4
14	JH-270	28.0	29.0	22.4	20.3	14.0	23.3	27.9	15.9	28.8	17.6	25.2	23.1
15	JH-342	28.4	27.8	23.0	18.2	14.7	23.4	26.2	16.3	28.2	17.3	21.0	21.8
16	JH-291	26.8	27.1	21.5	24.2	14.0	22.3	25.8	16.5	27.2	19.4	25.3	22.8
17	JH-290	26.1	28.6	23.0	19.8	14.7	23.1	26.9	17.2	29.0	16.8	21.4	22.2
18	JH-367	28.9	28.9	17.5	22.1	16.3	22.9	25.9	15.6	28.7	19.5	23.4	22.6
19	JH-31512	28.0	25.9	22.4	18.3	15.7	23.0	27.1	16.3	26.6	16.4	22.4	21.7
20	JH-31512	27.4	26.3	24.6	21.0	15.7	23.5	27.1	15.8	29.1	19.0	21.9	22.5
21	JH-31596	27.3	25.7	24.5	17.4	17.0	23.6	26.4	15.9	28.9	15.2	21.0	21.5
22	X35B352	28.8	27.5	24.0	15.5	12.3	23.1	26.8	16.3	26.6	17.5	22.4	21.9
23	X35B339	26.2	26.4	21.2	14.3	15.7	22.4	27.0	15.6	27.2	19.7	22.2	22.3
24	X35B349	26.9	28.3	18.8	21.2	13.7	21.9	25.0	17.1	27.6	19.1	18.7	21.5
25	X35B348	27.9	26.7	21.5	14.6	16.7	23.2	27.2	17.3	25.0	19.6	21.2	22.1
26	X35B361	25.9	27.0	18.8	14.3	13.3	21.2	26.8	15.9	27.0	16.5	22.4	21.7
27	A 7501	29.1	28.5	21.8	15.9	17.0	24.1	27.4	17.0	29.9	21.1	23.5	23.8
28	PRO 386	29.0	26.0	24.9	22.9	15.3	23.8	27.2	17.3	27.6	19.5	27.7	23.8
29	PRO 385	27.4	25.3	24.8	20.6	17.7	23.8	28.0	16.4	32.5	18.6	23.3	23.7
	CHECKS												
30	SEEDTECH 2324	27.0	24.1	24.0	16.4	15.7	22.7	28.0	16.9	28.8	18.5	22.5	22.9
31	BULAND	24.9	27.8	23.3	19.7	14.3	22.6	27.1	17.1	28.8	19.8	22.4	23.0
32	BIO 9681	25.8	25.2	23.3	14.1	16.7	22.7	26.0	15.2	25.9	15.8	21.7	20.9
	Loc. Mean	27.0	27.4	22.0	18.3	14.8	22.8	26.7	16.4	27.9	18.2	21.9	22.2
	C.D. (5%)	1.87	0.82	2.43	6.07	1.10	2.45	0.65	0.53	2.18	0.00	3.40	1.77-
	C.V. (%)	4.24	1.84	6.76	20.34	4.55	7.64	1.49	1.99	4.79	0.00	9.50	6.36-
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00

Locations Rejected due to High C.V.(i.e.> 20% DELHI 20.3%

Table No.1 (Cont...)

S.No.	PEDIGREE	MOISTURE % AT HARVEST ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	NMH-1247	17.4	16.5	14.9	16.0	23.0	18.0	17.6	17.6	11.4	14.5	19.3
2	Bisco x5141	18.5	17.2	15.0	16.4	24.4	19.2	18.4	18.3	11.2	14.8	19.8
3	HKH-415	15.0	14.6	15.0	17.2	23.6	19.0	17.4	18.1	13.8	15.9	19.9
4	HKH-416	17.3	15.4	14.2	16.1	19.2	16.4	16.4	18.2	12.1	15.1	18.9
5	HKH-417	16.6	16.7	13.1	15.5	19.3	15.8	16.1	18.2	11.8	15.0	19.0
6	KH-B 54	21.4	16.9	15.2	16.2	24.3	18.5	18.7	19.0	13.9	16.4	20.7
7	KH-3479	18.5	15.9	15.2	16.9	21.1	17.0	17.4	18.4	12.7	15.6	19.6
8	BIO 237	13.2	17.3	15.1	16.7	22.6	15.7	16.8	18.0	12.1	15.0	19.4
9	KMH-7148	-	16.2	15.5	16.9	27.3	20.4	19.3	19.9	14.6	17.3	21.6
10	HTMH5105	21.3	14.8	15.5	16.7	23.4	19.3	18.5	18.5	11.9	15.2	20.8
11	WNZPBTS 1	15.4	16.3	12.6	17.0	22.0	15.7	16.5	17.8	12.5	15.1	18.1
12	JH-273	22.3	15.5	15.1	16.6	23.9	17.7	18.5	19.2	11.1	15.1	20.5
13	JH-289	21.2	17.3	14.4	16.2	23.3	16.9	18.2	17.9	13.0	15.4	20.3
14	JH-270	21.7	14.9	14.9	16.5	22.9	17.2	18.0	18.6	14.3	16.5	20.6
15	JH-342	18.0	16.1	15.0	16.6	23.5	18.6	17.9	18.0	14.3	16.2	20.1
16	JH-291	16.4	14.6	14.7	16.2	21.1	17.5	16.7	18.1	13.0	15.5	19.7
17	JH-290	16.9	15.7	14.7	16.0	21.9	17.1	17.0	17.9	12.5	15.2	19.8
18	JH-367	20.6	16.0	14.2	16.9	23.0	16.5	17.8	17.7	12.5	15.1	20.1
19	JH-31512	18.2	16.3	14.7	16.0	24.3	14.9	17.4	18.0	11.6	14.8	19.7
20	JH-31512	16.5	13.9	14.6	16.9	21.5	16.0	16.6	19.0	11.1	15.0	19.8
21	JH-31596	18.8	16.4	14.9	16.1	21.7	15.8	17.3	17.3	12.6	14.9	19.7
22	X35B352	19.9	14.2	15.2	16.5	24.4	18.0	18.0	18.0	11.8	14.9	20.0
23	X35B339	17.7	15.6	14.5	15.8	22.0	15.8	16.9	18.9	14.9	16.9	19.8
24	X35B349	20.6	16.8	14.5	17.3	22.2	19.2	18.4	19.4	14.8	17.1	20.0
25	X35B348	23.5	17.2	15.3	16.2	23.6	16.2	18.6	18.1	13.6	15.8	20.4
26	X35B361	17.2	14.8	13.9	17.3	21.1	17.5	16.9	18.5	11.5	15.0	19.1
27	A 7501	22.3	15.3	14.9	16.8	24.7	17.2	18.5	17.9	13.1	15.5	21.0
28	PRO 386	24.5	15.8	15.3	16.2	25.4	15.3	18.7	18.4	13.5	16.0	21.1
29	PRO 385	22.2	14.9	15.2	16.8	23.9	18.2	18.5	18.8	14.2	16.5	21.0
	CHECKS											
30	SEEDTECH 2324	17.5	15.9	15.1	16.7	23.2	18.2	17.8	18.8	14.3	16.6	20.3
31	BULAND	17.4	14.8	13.8	16.8	22.5	15.8	16.8	18.4	10.3	14.3	19.7
32	BIO 9681	18.2	17.6	14.4	16.5	20.9	15.8	17.2	18.6	13.1	15.8	19.4
	Loc. Mean	18.5	15.9	14.7	16.5	22.8	17.2	17.7	18.3	12.8	15.6	20.0
	C.D. (5%)		0.00	0.52	0.70	1.85	1.49	1.55	0.78	1.48	1.69	0.95
	C.V. (%)		0.00	2.19	2.62	4.96	5.31	7.69	2.60	7.12	5.33	7.07
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00

Table No.1 (Cont...) GRAIN SHELLING %

S.No.	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 Mean
1	NMH-1247	80.5	82.2	88.4	84.8	75.3	82.2	79.4	78.9	75.8	81.0	64.0	75.8
2	Bisco x5141	79.3	77.0	85.1	84.0	72.7	79.6	75.1	82.6	78.8	81.1	70.0	77.5
3	HKH-415	82.6	75.4	84.4	83.7	74.7	80.2	74.1	84.0	77.8	78.3	73.9	77.6
4	HKH-416	76.5	76.1	80.6	79.0	75.7	77.6	75.4	76.3	77.8	78.2	81.0	77.7
5	HKH-417	80.5	83.7	83.0	81.7	74.3	80.6	75.7	78.5	73.3	78.9	58.9	73.1
6	KH-B 54	86.6	86.2	88.2	85.7	73.7	84.0	78.3	78.5	81.8	82.9	65.5	77.4
7	KH-3479	81.3	86.9	90.5	87.2	74.3	84.0	78.6	84.0	76.8	84.1	72.0	79.1
8	BIO 237	87.8	83.4	90.1	83.1	75.3	83.9	77.3	77.8	72.8	84.7	69.0	76.3
9	KMH-7148	91.1	83.2	86.7	85.0	72.3	83.7	78.5	82.3	76.3	81.7	75.0	78.7
10	HTMH5105	78.1	81.5	82.9	85.7	75.0	80.6	71.3	84.5	79.0	78.7	65.5	75.8
11	WNZPBTS 1	80.2	77.8	88.2	82.6	72.7	80.3	76.6	76.3	74.8	81.3	69.0	75.6
12	JH-273	78.2	82.5	81.3	83.4	75.3	80.1	78.4	81.9	82.8	81.7	68.5	78.7
13	JH-289	79.6	84.2	85.4	81.2	74.7	81.0	74.5	77.4	73.8	81.6	72.0	75.8
14	JH-270	78.3	78.2	82.8	83.4	72.7	79.1	72.6	80.4	80.8	76.8	73.5	76.8
15	JH-342	79.5	88.1	80.0	80.9	75.0	80.7	71.4	78.0	76.3	76.4	64.0	73.2
16	JH-291	81.2	81.8	86.4	86.7	74.0	82.0	72.1	78.8	75.8	80.6	65.0	74.5
17	JH-290	70.0	85.4	88.3	86.9	73.3	80.8	72.4	83.6	75.3	78.9	85.6	79.1
18	JH-367	81.6	83.5	85.8	82.3	73.0	81.2	76.2	84.0	75.3	81.5	75.5	78.5
19	JH-31512	78.9	81.8	81.1	81.4	73.0	79.2	74.7	80.9	74.0	79.0	62.8	74.3
20	JH-31512	90.6	81.8	81.3	79.4	74.7	81.5	74.0	81.0	78.8	78.6	70.0	76.5
21	JH-31596	81.2	81.6	84.5	84.9	71.3	80.7	78.6	79.3	77.8	82.0	83.0	80.1
22	X35B352	90.3	81.7	90.3	85.9	73.7	84.4	78.0	89.0	79.3	81.1	77.5	81.0
23	X35B339	84.8	81.4	88.6	84.8	74.7	82.8	78.6	79.2	76.3	81.7	73.5	77.8
24	X35B349	81.2	85.5	87.0	86.7	73.3	82.7	76.6	79.0	77.8	80.3	75.5	77.8
25	X35B348	78.8	81.3	79.2	83.9	74.3	79.5	77.1	81.7	72.0	80.4	68.0	75.8
26	X35B361	80.6	80.1	89.2	86.6	73.0	81.9	80.8	79.2	75.3	81.5	73.0	78.0
27	A 7501	89.6	81.4	85.3	87.3	75.3	83.8	79.1	84.4	75.0	84.2	61.4	76.8
28	PRO 386	80.0	83.5	82.7	85.3	73.7	81.0	72.1	85.5	75.3	78.9	69.2	76.2
29	PRO 385	79.3	82.8	86.9	85.8	74.7	81.9	73.1	80.9	79.8	81.4	64.8	76.0
	CHECKS												
30	SEEDTECH 2324	81.8	80.4	88.8	84.2	72.7	81.6	73.1	79.9	79.3	77.5	68.0	75.5
31	BULAND	93.3	82.1	86.7	84.9	73.3	84.1	65.4	82.9	78.0	77.7	62.5	73.3
32	BIO 9681	81.8	85.6	89.4	82.8	74.3	82.8	73.9	78.6	79.3	81.6	68.3	76.3
	Loc. Mean	82.0	82.1	85.6	84.1	73.9	81.6	75.4	80.9	76.9	80.4	70.2	76.8
	C.D. (5%)	-	1.34	3.76	2.90	1.41	3.71	1.63	4.71	3.02	0.00	9.78	4.47
	C.V. (%)	-	1.00	2.69	2.11	1.17	3.64	1.33	3.57	2.41	0.00	8.54	4.65
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.08

Table No.1 (Cont...) GRAIN SHELLING %

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	NMH-1247	84.9	69.0	86.1	79.8	79.2	76.6	79.3	71.5	79.5	75.5	78.7
2	Bisco x5141	83.2	73.3	78.1	81.5	77.7	79.3	78.8	71.1	82.9	77.0	78.5
3	HKH-415	78.7	69.3	79.6	79.3	75.4	77.4	76.6	67.5	85.0	76.3	77.8
4	HKH-416	81.0	69.0	78.8	79.3	72.4	80.1	76.7	71.4	81.1	76.3	77.2
5	HKH-417	82.9	71.3	82.0	78.0	76.3	79.9	78.4	70.9	85.6	78.2	77.5
6	KH-B 54	86.2	72.7	82.4	80.6	79.4	83.1	80.7	71.3	83.2	77.2	80.3
7	KH-3479	83.9	74.7	84.1	78.6	78.4	87.1	81.1	69.9	83.3	76.6	80.9
8	BIO 237	86.0	75.3	83.8	83.5	79.6	82.6	81.8	69.5	87.9	78.7	80.5
9	KMH-7148	-	71.7	80.1	83.0	78.4	76.2	77.9	70.8	82.0	76.4	79.6
10	HTMH5105	82.5	70.3	78.0	80.3	73.8	77.0	77.0	69.1	85.4	77.2	77.7
11	WNZPBTS 1	84.1	79.3	79.7	81.1	80.6	80.4	80.9	69.4	68.3	68.9	77.9
12	JH-273	82.3	72.3	77.7	81.3	77.1	80.4	78.5	69.6	82.1	75.8	78.7
13	JH-289	81.6	72.0	75.8	80.7	76.1	80.7	77.8	69.8	87.2	78.5	78.2
14	JH-270	80.5	70.3	78.8	79.6	76.1	80.3	77.6	71.3	80.8	76.1	77.6
15	JH-342	78.6	70.0	77.2	82.3	73.9	80.4	77.1	70.6	66.3	68.4	76.0
16	JH-291	82.3	75.3	82.6	80.8	75.4	80.0	79.4	71.5	82.1	76.8	78.5
17	JH-290	81.8	70.0	79.8	80.3	72.1	76.4	76.7	70.9	83.5	77.2	78.6
18	JH-367	83.9	76.3	79.1	80.1	78.9	82.8	80.2	65.2	81.9	73.5	79.2
19	JH-31512	78.3	73.3	79.1	80.6	76.5	79.5	77.9	66.9	80.6	73.7	76.8
20	JH-31512	79.7	72.0	80.8	81.2	73.3	75.2	77.0	71.8	78.1	74.9	77.9
21	JH-31596	85.0	74.7	83.0	82.5	76.7	78.4	80.0	68.6	84.8	76.7	79.9
22	X35B352	80.9	74.3	81.8	78.8	80.5	80.9	79.5	71.4	81.4	76.4	80.9
23	X35B339	83.0	75.3	81.9	79.1	79.2	82.7	80.2	71.2	81.7	76.5	79.9
24	X35B349	80.8	73.3	82.2	82.0	78.4	81.1	79.6	71.4	81.8	76.6	79.7
25	X35B348	81.2	71.0	80.0	80.0	81.0	80.0	78.8	72.5	84.6	78.6	78.2
26	X35B361	87.2	83.0	85.2	80.1	82.1	74.6	82.0	71.5	88.0	79.7	80.6
27	A 7501	85.5	76.0	85.8	81.4	81.8	84.5	82.5	71.3	85.8	78.5	80.8
28	PRO 386	81.4	72.0	83.3	78.3	78.8	83.4	79.5	70.6	87.1	78.8	78.9
29	PRO 385	81.8	69.3	81.7	78.6	76.4	81.1	78.1	69.7	84.5	77.1	78.5
	CHECKS											
30	SEEDTECH 2324	85.0	71.3	80.7	81.0	78.4	79.2	79.2	69.6	80.9	75.3	78.4
31	BULAND	80.3	69.7	78.2	79.5	74.3	79.3	76.9	71.1	76.2	73.7	77.5
32	BIO 9681	85.7	76.3	84.9	81.1	78.5	81.5	81.3	69.9	85.4	77.6	79.9
	Loc. Mean	81.7	72.9	81.0	80.4	77.4	80.0	79.0	70.3	82.1	76.2	78.8
	C.D. (5%)	17.58	2.92	1.00	1.87	1.99	1.88	2.40	2.16	6.25	7.30	1.97
	C.V. (%)	13.04	2.45	0.75	1.43	1.58	1.44	2.67	1.88	4.66	4.70	3.83
	F (Prob)	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00

Table No.1(Cont...)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 Mean
1	NMH-1247	84.7	58.9	56.7	58.3	76.4	67.0	68.8	78.5	81.9	61.4	83.3	74.8
2	Bisco x5141	81.9	63.9	56.7	65.0	74.3	68.4	67.4	64.6	79.9	62.7	79.2	70.7
3	HKH-415	75.7	58.9	56.7	52.2	77.1	64.1	64.6	79.2	81.9	60.1	81.3	73.4
4	HKH-416	82.6	63.9	56.7	66.7	75.7	69.1	58.3	81.9	82.6	58.8	81.3	72.6
5	HKH-417	81.9	60.6	55.6	49.4	75.0	64.5	62.5	78.5	83.3	60.8	79.9	73.0
6	KH-B 54	74.3	62.2	56.7	52.8	75.0	64.2	68.1	66.7	81.9	62.7	81.9	72.3
7	KH-3479	79.2	57.8	56.7	61.1	77.1	66.4	67.4	75.7	82.6	60.8	83.3	74.0
8	BIO 237	87.5	61.1	56.7	62.2	75.0	68.5	67.4	62.5	81.3	60.8	81.3	70.6
9	KMH-7148	86.1	63.3	55.6	43.9	75.7	64.9	65.3	71.5	83.3	60.8	84.0	73.0
10	HTMH5105	73.6	63.3	56.7	44.4	77.1	63.0	60.4	77.8	79.2	62.7	79.9	72.0
11	WNZPBTS 1	62.5	64.4	56.7	36.7	76.4	59.3	62.5	63.2	78.5	58.8	79.9	68.6
12	JH-273	86.1	62.8	56.1	62.5	77.8	69.1	62.5	69.4	83.3	62.1	80.6	71.6
13	JH-289	79.9	60.0	55.0	61.1	73.6	65.9	61.1	70.1	81.9	58.8	79.2	70.2
14	JH-270	82.6	60.6	56.7	70.6	75.7	69.2	65.3	74.3	83.3	60.8	81.3	73.0
15	JH-342	83.3	61.1	56.7	62.2	72.9	67.2	66.7	71.5	82.6	59.5	79.9	72.0
16	JH-291	84.0	59.4	56.7	58.3	75.7	66.8	60.4	76.4	83.3	61.4	81.9	72.7
17	JH-290	84.7	62.8	56.7	57.8	75.0	67.4	63.9	83.3	83.3	60.1	80.6	74.2
18	JH-367	86.8	62.2	56.7	50.6	75.7	66.4	70.8	75.7	83.3	62.7	80.6	74.6
19	JH-31512	77.1	62.2	55.6	54.4	75.7	65.0	57.6	72.2	82.6	58.8	72.2	68.7
20	JH-31512	84.0	63.3	56.7	42.2	72.9	63.8	54.2	75.7	81.9	58.8	84.7	71.1
21	JH-31596	80.6	61.1	55.6	41.7	77.1	63.2	63.9	61.8	79.9	61.4	77.8	69.0
22	X35B352	81.3	58.9	56.7	50.6	75.0	64.5	67.4	72.9	82.6	60.8	83.3	73.4
23	X35B339	84.7	63.3	56.7	56.1	75.0	67.2	64.6	71.5	82.6	60.8	81.9	72.3
24	X35B349	81.9	62.8	56.7	62.2	78.5	68.4	66.0	77.1	82.6	61.4	82.6	74.0
25	X35B348	78.5	58.9	56.7	56.1	72.9	64.6	66.0	83.3	81.9	63.4	83.3	75.6
26	X35B361	86.1	63.9	55.0	60.6	75.7	68.3	69.4	72.2	82.6	58.8	79.9	72.6
27	A 7501	81.3	62.2	56.7	64.4	75.0	67.9	62.5	77.1	83.3	61.4	83.3	73.5
28	PRO 386	78.5	62.8	56.7	54.4	77.1	65.9	68.1	59.7	82.6	58.8	80.6	70.0
29	PRO 385	85.4	62.8	56.7	59.4	77.8	68.4	67.4	68.8	83.3	60.8	80.6	72.2
	CHECKS												
30	SEEDTECH 2324	81.9	62.2	56.1	57.2	71.5	65.8	65.3	79.2	83.3	60.8	83.3	74.4
31	BULAND	84.0	62.8	56.7	53.3	77.1	66.8	63.2	82.6	83.3	60.8	79.2	73.8
32	BIO 9681	81.9	60.0	56.1	38.9	77.1	62.8	61.8	72.2	81.9	60.8	78.5	71.0
	Loc. Mean	81.4	61.7	56.4	55.2	75.6	66.1	64.4	73.4	82.3	60.7	80.9	72.3
	C.D. (5%)	8.43	2.25	1.46	13.47	4.05	5.44	5.91	13.07	2.68	4.16	6.02	4.31
	C.V. (%)	6.35	2.23	1.58	14.94	3.28	6.58	5.63	10.92	2.00	4.20	4.56	4.76
	F (Prob)	0.00	0.00	0.43	0.00	0.21	0.12	0.00	0.01	0.02	0.72	0.24	0.12

Table No.1(Cont...)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	NMH-1247	50.6	65.3	52.8	60.7	65.3	59.7	59.1	56.9	75.7	66.3	66.4
2	Bisco x5141	59.4	72.9	58.9	62.5	66.0	56.3	62.7	59.0	71.5	65.3	66.8
3	HKH-415	38.3	77.1	66.1	63.7	66.0	51.4	60.4	63.9	81.3	72.6	66.4
4	HKH-416	57.8	72.2	53.3	62.5	66.7	56.3	61.5	57.6	79.2	68.4	67.5
5	HKH-417	54.4	62.5	57.2	60.7	66.7	55.6	59.5	58.3	79.2	68.7	65.7
6	KH-B 54	43.3	56.9	47.8	57.1	66.7	41.7	52.3	58.3	54.2	56.3	61.6
7	KH-3479	55.6	64.6	57.8	57.7	65.3	53.5	59.1	56.9	76.4	66.7	66.1
8	BIO 237	56.7	72.2	56.1	59.5	66.0	55.6	61.0	56.3	79.9	68.1	66.5
9	KMH-7148	-	69.4	53.3	58.3	66.7	57.6	61.1	60.4	78.5	69.4	66.7
10	HTMH5105	56.1	66.7	53.3	61.3	66.7	60.4	60.8	61.8	78.5	70.1	65.5
11	WNZPBTS 1	46.1	63.2	51.7	61.3	66.7	54.9	57.3	52.8	69.4	61.1	61.4
12	JH-273	58.9	70.8	62.8	60.7	65.3	56.9	62.6	59.0	75.7	67.4	67.4
13	JH-289	57.8	67.4	55.6	60.1	66.7	59.7	61.2	63.2	73.6	68.4	65.8
14	JH-270	62.2	70.8	57.2	60.1	65.3	57.6	62.2	59.7	79.9	69.8	68.0
15	JH-342	63.9	71.5	60.6	62.5	66.7	55.6	63.4	60.4	73.6	67.0	67.3
16	JH-291	56.1	65.3	61.1	62.5	66.7	55.6	61.2	54.2	81.9	68.1	66.7
17	JH-290	61.7	66.0	64.4	62.5	66.0	52.1	62.1	59.7	83.3	71.5	68.0
18	JH-367	58.3	75.7	61.1	61.9	66.0	53.5	62.7	54.2	75.7	64.9	67.3
19	JH-31512	50.6	69.4	54.4	59.5	65.3	53.5	58.8	60.4	69.4	64.9	64.0
20	JH-31512	62.8	68.1	49.4	62.5	66.0	50.7	59.9	58.3	75.7	67.0	64.9
21	JH-31596	57.2	70.8	46.1	64.9	66.0	25.0	55.0	59.0	81.9	70.5	62.9
22	X35B352	57.2	79.9	59.4	59.5	66.7	56.3	63.2	57.6	83.3	70.5	67.2
23	X35B339	64.4	74.3	62.2	61.9	65.3	56.9	64.2	61.1	79.2	70.1	67.9
24	X35B349	65.0	77.1	55.0	58.9	66.0	61.8	64.0	65.3	72.9	69.1	68.5
25	X35B348	67.2	77.1	56.7	63.1	65.3	58.3	64.6	61.8	79.9	70.8	68.4
26	X35B361	60.6	75.7	56.1	63.1	66.0	55.6	62.8	55.6	75.7	65.6	67.4
27	A 7501	55.6	71.5	60.6	62.5	66.0	54.2	61.7	56.3	80.6	68.4	67.5
28	PRO 386	58.9	77.8	58.3	62.5	66.0	51.4	62.5	54.9	78.5	66.7	66.0
29	PRO 385	60.6	69.4	58.3	63.1	65.3	52.1	61.5	54.9	76.4	65.6	66.8
	CHECKS											
30	SEEDTECH 2324	59.4	66.7	56.1	62.5	65.3	50.7	60.1	57.6	79.2	68.4	66.6
31	BULAND	58.9	69.4	56.7	58.9	66.7	59.0	61.6	58.3	77.1	67.7	67.1
32	BIO 9681	50.0	61.8	42.8	58.9	66.0	52.1	55.3	52.1	56.3	54.2	61.6
	Loc. Mean	57.0	70.0	56.4	61.2	66.0	54.1	60.8	58.3	76.0	67.2	66.2
	C.D. (5%)	12.82	7.46	9.92	5.78	1.60	6.09	4.98	8.69	9.39	9.58	2.72
	C.V. (%)	13.56	6.53	10.78	5.78	1.49	6.90	7.19	9.13	7.57	6.99	6.29
	F (Prob)	0.01	0.00	0.01	0.68	0.00	0.00	0.00	0.44	0.00	0.19	0.00

Table No.1(Cont..)

S.No	PEDIGREE	DAYS TO 50% POLLEN SHED											
		LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 Mean
1	NMH-1247	138.0	135.0	127.7	134.7	98.3	126.7	126.0	120.0	110.0	72.0	113.7	108.3
2	Bisco x5141	140.7	137.0	127.3	134.0	88.3	125.5	126.3	121.3	111.7	72.7	119.0	110.2
3	HKH-415	142.3	140.3	127.7	133.0	94.3	127.5	127.7	120.3	112.3	72.7	119.7	110.5
4	HKH-416	135.3	136.3	124.0	129.3	94.3	123.9	123.7	120.0	107.7	70.3	114.0	107.1
5	HKH-417	137.7	139.0	126.3	131.7	99.7	126.9	126.7	119.7	109.3	72.7	111.3	107.9
6	KH-B 54	142.0	139.0	129.0	133.0	100.7	128.7	126.0	119.7	109.7	72.3	119.3	109.4
7	KH-3479	141.3	137.3	127.7	135.0	92.0	126.7	126.3	120.7	113.0	73.0	115.0	109.6
8	BIO 237	139.3	137.0	128.0	135.0	92.3	126.3	127.0	122.0	111.7	73.3	115.7	109.9
9	KMH-7148	140.0	136.0	127.0	132.3	87.7	124.6	127.3	120.0	108.7	72.3	108.3	107.3
10	HTMH5105	143.7	139.3	132.0	137.7	98.3	130.2	131.0	123.7	112.3	75.7	122.7	113.1
11	WNZPBTS 1	134.3	131.7	116.3	126.7	95.7	120.9	114.0	113.0	97.7	66.3	102.7	98.7
12	JH-273	139.3	135.0	130.3	135.7	94.7	127.0	127.7	123.0	112.0	74.0	118.7	111.1
13	JH-289	140.3	137.7	130.7	135.0	92.3	127.2	128.3	123.0	111.3	73.0	115.7	110.3
14	JH-270	144.0	144.3	132.0	136.3	86.3	128.6	131.3	128.0	118.0	77.7	123.7	115.7
15	JH-342	139.3	137.0	126.7	134.7	89.7	125.5	125.0	120.7	109.7	71.7	117.3	108.9
16	JH-291	136.3	137.3	126.7	130.3	99.0	125.9	123.7	118.7	108.3	71.3	110.7	106.5
17	JH-290	139.3	135.7	127.3	133.7	95.3	126.3	125.3	120.7	111.7	71.3	120.7	109.9
18	JH-367	137.3	137.7	127.3	133.3	102.7	127.7	128.0	119.3	109.7	73.3	113.0	108.7
19	JH-31512	141.7	138.7	129.7	136.3	96.3	128.5	128.0	122.3	112.0	75.0	121.0	111.7
20	JH-31512	141.7	133.0	129.7	136.7	100.7	128.3	128.0	122.3	113.7	74.3	121.3	111.9
21	JH-31596	141.3	136.3	128.3	134.7	84.3	125.0	125.0	120.0	108.3	70.7	118.0	108.4
22	X35B352	137.7	135.3	124.3	132.3	103.7	126.7	126.3	118.0	110.7	70.7	108.7	106.9
23	X35B339	138.0	134.3	126.7	133.0	94.7	125.3	125.7	120.0	109.3	73.0	112.3	108.1
24	X35B349	142.0	140.0	129.3	132.7	92.7	127.3	129.0	122.3	112.0	72.7	118.3	110.9
25	X35B348	141.3	141.3	128.3	135.3	101.7	129.6	129.7	122.3	112.3	74.0	114.7	110.6
26	X35B361	139.0	137.3	128.3	132.7	80.7	123.6	126.3	120.0	111.3	71.7	118.7	109.6
27	A 7501	140.0	137.0	125.7	131.7	91.7	125.2	128.0	119.7	110.7	71.7	120.0	110.0
28	PRO 386	144.7	141.7	131.7	136.3	98.7	130.6	131.0	124.3	114.7	73.3	121.7	113.0
29	PRO 385	137.0	136.7	128.7	132.7	94.3	125.9	126.0	120.3	111.0	71.0	115.0	108.7
	CHECKS												
30	SEEDTECH 2324	139.7	136.7	128.3	133.0	92.3	126.0	127.3	119.7	111.0	71.0	114.3	108.7
31	BULAND	144.7	140.7	131.7	138.7	102.3	131.6	130.0	123.0	114.0	74.0	121.7	112.5
32	BIO 9681	140.0	134.7	127.7	132.7	95.7	126.1	125.3	120.0	109.3	71.7	115.3	108.3
	Loc. Mean	140.0	137.4	127.9	133.8	94.7	126.7	126.8	120.9	110.8	72.5	116.3	109.5
	C.D. (5%)	3.14	1.84	2.48	2.53	1.40	3.70	1.30	2.34	1.43	1.87	5.97	2.17
	C.V. (%)	1.37	0.82	1.19	1.16	0.91	2.33	0.63	1.18	0.79	1.58	3.14	1.58
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No.1(Cont..)

S.No	PEDIGREE	DAYS TO 50% POLLEN SHED						ZN 4 Mean			ZN 5 Mean	OV'L Mean
		ARBH	KARI	KOLH	MAND	COIM	VAGA		BANS	GODH		
1	NMH-1247	79.0	60.3	80.0	71.3	56.3	59.3	67.7	98.0	75.7	86.8	97.5
2	Bisco x5141	79.3	63.3	78.7	69.3	58.0	60.7	68.2	97.0	75.0	86.0	97.8
3	HKH-415	79.7	65.0	77.7	70.0	56.0	57.0	67.6	96.3	76.0	86.2	98.2
4	HKH-416	76.7	65.0	78.3	71.3	53.3	57.0	66.9	96.3	73.7	85.0	95.9
5	HKH-417	78.3	60.0	76.3	65.7	54.0	55.7	65.0	97.3	75.3	86.3	96.5
6	KH-B 54	79.0	62.0	77.3	70.0	58.0	60.3	67.8	95.7	81.7	88.7	98.6
7	KH-3479	78.3	64.0	79.7	70.0	56.3	61.0	68.2	94.3	77.0	85.7	97.9
8	BIO 237	80.3	59.3	79.3	71.7	58.0	62.3	68.5	97.7	76.7	87.2	98.1
9	KMH-7148	-	60.3	76.7	75.3	56.7	59.0	65.6	97.0	77.3	87.2	97.8
10	HTMH5105	81.3	64.0	80.3	71.3	58.0	61.7	69.4	96.7	78.0	87.3	100.4
11	WNZPBTS 1	69.3	60.0	70.0	70.0	49.0	47.3	60.9	85.3	67.3	76.3	89.8
12	JH-273	81.0	64.3	79.7	71.3	59.0	61.7	69.5	96.3	76.7	86.5	98.9
13	JH-289	81.7	61.3	78.7	71.0	58.7	63.3	69.1	94.0	77.7	85.8	98.5
14	JH-270	86.3	63.7	83.3	72.0	61.7	64.7	71.9	95.3	78.7	87.0	101.5
15	JH-342	79.0	64.0	77.0	71.0	57.0	60.7	68.1	96.0	75.3	85.7	97.3
16	JH-291	78.0	60.7	77.0	72.3	53.7	57.0	66.4	95.7	76.3	86.0	96.3
17	JH-290	79.0	59.3	78.3	70.3	56.0	58.3	66.9	97.7	76.0	86.8	97.6
18	JH-367	79.0	67.3	77.0	69.7	57.3	61.0	68.6	96.3	75.7	86.0	98.1
19	JH-31512	83.0	66.0	81.0	69.0	58.7	61.0	69.8	97.7	80.7	89.2	99.9
20	JH-31512	83.7	65.7	80.7	73.7	58.3	62.3	70.7	99.3	81.0	90.2	100.3
21	JH-31596	78.0	58.7	77.7	73.7	55.3	58.3	66.9	91.0	74.0	82.5	96.3
22	X35B352	78.3	59.3	77.3	70.7	55.3	55.7	66.1	97.0	76.3	86.7	96.5
23	X35B339	78.7	62.7	77.3	72.0	55.0	57.3	67.2	97.7	76.0	86.8	96.9
24	X35B349	81.3	63.7	78.0	70.7	58.3	61.3	68.9	94.7	83.7	89.2	99.0
25	X35B348	82.7	64.7	79.7	72.3	58.3	61.0	69.8	98.0	79.7	88.8	99.9
26	X35B361	80.0	59.7	80.3	70.0	56.3	60.0	67.7	95.3	77.0	86.2	96.9
27	A 7501	79.0	64.3	78.7	70.7	56.7	57.7	67.8	97.0	77.0	87.0	97.6
28	PRO 386	83.0	65.3	81.3	72.0	57.3	58.7	69.6	96.0	81.0	88.5	100.7
29	PRO 385	79.0	63.7	78.7	70.3	54.0	59.7	67.6	98.0	75.3	86.7	97.3
	CHECKS											
30	SEEDTECH 2324	78.3	64.0	76.3	69.0	56.7	59.7	67.3	96.3	75.7	86.0	97.2
31	BULAND	83.3	64.0	82.0	70.0	59.7	60.7	69.9	95.0	80.3	87.7	100.9
32	BIO 9681	77.3	61.0	76.0	72.0	52.3	56.3	65.8	96.7	77.0	86.8	96.7
	Loc. Mean	79.7	62.7	78.4	70.9	56.5	59.3	67.9	96.0	77.0	86.5	97.9
	C.D. (5%)	1.39	1.31	3.29	5.06	1.01	2.79	2.30	1.68	4.73	4.01	1.53
	C.V. (%)	1.05	1.28	2.57	4.37	1.09	2.88	2.98	1.07	3.76	2.27	2.39
	F (Prob)	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No.1 (Cont...)

S.No.	PEDIGREE	DAYS TO 50% SILKING LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 Mean
1	NMH-1247	141.0	137.7	130.0	136.7	105.3	130.1	128.0	123.0	114.0	74.3	120.0	111.9
2	Bisco x5141	144.7	139.7	129.7	135.7	95.0	128.9	128.3	123.3	115.7	74.7	122.7	112.9
3	HKH-415	146.7	143.3	130.7	135.7	100.3	131.3	129.7	124.0	117.7	74.7	121.7	113.5
4	HKH-416	138.3	139.0	126.7	131.0	101.0	127.2	129.0	123.0	113.0	72.7	121.3	111.8
5	HKH-417	141.0	141.7	129.0	133.7	107.3	130.5	128.7	122.3	114.3	74.7	131.7	114.3
6	KH-B 54	147.0	142.0	132.0	135.0	106.3	132.5	128.0	123.0	115.7	75.0	123.7	113.1
7	KH-3479	147.0	140.3	131.0	137.7	97.7	130.7	128.3	123.3	117.0	75.0	121.7	113.1
8	BIO 237	142.3	139.7	130.3	137.3	99.3	129.8	129.0	124.0	115.0	75.3	122.0	113.1
9	KMH-7148	142.0	138.7	129.3	134.7	94.3	127.8	129.3	123.0	112.7	74.3	126.7	113.2
10	HTMH5105	147.3	142.0	135.0	140.3	105.3	134.0	133.0	126.0	117.7	77.7	124.0	115.7
11	WNZPBTS 1	135.3	134.7	119.7	129.0	101.7	124.1	116.0	115.3	103.7	68.3	117.0	104.1
12	JH-273	142.7	137.0	133.3	137.3	101.3	130.3	129.7	125.0	116.0	76.0	128.0	114.9
13	JH-289	144.7	140.7	133.7	137.3	98.3	130.9	130.3	125.7	116.7	75.0	120.0	113.5
14	JH-270	146.7	147.0	134.7	138.3	91.7	131.7	133.3	130.0	121.3	79.3	128.7	118.5
15	JH-342	143.7	139.3	129.7	137.0	96.7	129.3	127.3	123.7	114.3	73.3	121.7	112.1
16	JH-291	141.7	140.0	129.7	132.7	107.7	130.3	125.7	121.3	113.3	73.3	125.3	111.8
17	JH-290	144.3	138.0	130.7	136.0	101.3	130.1	127.3	123.7	115.3	73.3	129.3	113.8
18	JH-367	142.0	140.0	130.3	135.7	100.3	129.7	130.0	122.3	114.7	75.3	125.0	113.5
19	JH-31512	146.0	141.3	132.7	138.3	105.3	132.7	130.0	124.0	117.0	77.0	126.3	114.9
20	JH-31512	145.7	135.7	132.3	139.3	107.7	132.1	130.0	124.7	117.7	76.3	125.7	114.9
21	JH-31596	144.3	139.0	131.0	136.0	90.3	128.1	127.3	122.0	113.0	72.7	119.7	110.9
22	X35B352	141.0	137.7	126.7	133.7	109.7	129.7	128.3	120.3	114.3	72.7	119.0	110.9
23	X35B339	140.7	137.3	129.0	135.0	101.7	128.7	127.7	122.3	114.3	75.3	120.0	111.9
24	X35B349	146.3	142.7	132.0	135.0	98.7	130.9	131.0	124.7	116.3	74.7	124.3	114.2
25	X35B348	145.3	144.3	130.3	137.7	108.7	133.3	131.7	125.0	116.7	76.0	123.0	114.5
26	X35B361	141.7	139.7	130.3	133.7	88.3	126.7	128.7	122.3	114.7	74.0	123.3	112.6
27	A 7501	144.3	139.7	128.7	134.3	97.7	128.9	132.0	122.7	114.7	73.7	130.0	114.6
28	PRO 386	148.0	144.7	134.7	138.3	106.0	134.3	133.0	126.7	118.7	75.3	126.3	116.0
29	PRO 385	141.3	139.0	129.3	136.0	104.7	130.1	128.0	122.7	115.0	73.7	123.3	112.5
	CHECKS												
30	SEEDTECH 2324	143.3	139.3	131.0	134.3	99.3	129.5	129.3	122.0	114.0	73.0	119.7	111.6
31	BULAND	148.7	143.3	134.3	140.7	107.7	134.9	132.0	125.0	118.3	76.0	129.3	116.1
32	BIO 9681	143.3	137.3	130.0	134.7	91.3	127.3	127.3	122.0	113.0	73.7	120.3	111.3
	Loc. Mean	143.7	140.1	130.6	135.9	100.9	130.2	129.0	123.4	115.2	74.6	123.8	113.2
	C.D. (5%)	2.74	1.73	2.60	2.78	1.05	3.79	2.29	2.30	1.38	1.97	8.10	2.12
	C.V. (%)	1.17	0.76	1.22	1.25	0.64	2.32	1.09	1.14	0.73	1.62	4.01	1.50
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00

Table No.1(Cont...)

S.No.	PEDIGREE	DAYS TO 50% SILKING ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	NMH-1247	79.3	63.7	81.0	73.0	58.3	62.7	69.7	102.0	80.7	91.3	100.6
2	Bisco x5141	81.7	66.7	79.7	72.3	60.0	63.0	70.6	100.7	80.3	90.5	100.8
3	HKH-415	81.7	68.0	78.7	72.7	58.3	61.0	70.1	100.3	81.7	91.0	101.5
4	HKH-416	77.7	68.0	79.3	74.3	55.7	61.3	69.4	100.3	78.0	89.2	99.4
5	HKH-417	79.0	64.7	77.3	67.7	56.0	59.0	67.3	101.3	80.3	90.8	100.5
6	KH-B 54	79.7	65.7	78.3	72.0	60.0	64.0	69.9	99.7	86.3	93.0	101.9
7	KH-3479	80.0	67.7	80.7	71.7	58.0	65.0	70.5	98.3	81.7	90.0	101.2
8	BIO 237	80.7	63.3	80.3	74.0	60.3	64.3	70.5	101.3	81.0	91.2	101.1
9	KMH-7148	-	63.3	77.7	80.0	58.7	62.0	68.3	101.0	80.7	90.8	101.7
10	HTMH5105	84.0	67.7	81.3	73.7	60.3	64.0	71.8	100.0	82.7	91.3	103.4
11	WNZPBTS 1	70.0	64.0	71.0	73.7	51.3	50.3	63.4	89.3	70.0	79.7	93.4
12	JH-273	83.0	68.0	80.7	73.3	61.0	63.3	71.6	100.3	80.3	90.3	102.0
13	JH-289	82.3	65.0	79.7	73.7	60.7	65.3	71.1	98.0	83.7	90.8	101.7
14	JH-270	86.7	67.0	84.3	74.0	64.7	67.0	73.9	99.3	86.0	92.7	104.4
15	JH-342	81.0	67.7	80.7	74.0	59.0	63.0	70.9	100.0	80.3	90.2	100.7
16	JH-291	79.3	65.0	78.0	75.0	55.7	60.7	68.9	100.0	80.0	90.0	100.2
17	JH-290	81.0	63.7	79.3	72.7	58.0	63.0	69.6	101.7	81.3	91.5	101.1
18	JH-367	82.0	70.7	78.0	73.7	59.7	64.7	71.4	100.3	80.7	90.5	101.4
19	JH-31512	83.7	70.0	82.0	70.7	60.7	63.7	71.8	101.7	85.0	93.3	103.1
20	JH-31512	85.3	68.7	81.7	76.3	60.7	64.0	72.8	103.3	85.3	94.3	103.4
21	JH-31596	78.7	63.3	78.7	75.7	57.3	61.3	69.2	95.0	78.0	86.5	99.1
22	X35B352	80.0	63.3	78.3	74.0	57.3	58.3	68.6	101.0	81.3	91.2	99.8
23	X35B339	79.7	67.0	78.3	74.3	56.7	62.0	69.7	102.0	80.0	91.0	100.2
24	X35B349	81.7	67.7	79.0	73.7	60.0	63.7	70.9	98.7	88.0	93.3	102.1
25	X35B348	84.0	68.3	80.7	74.7	60.7	64.0	72.1	102.0	83.3	92.7	103.1
26	X35B361	79.3	63.3	81.3	73.3	58.3	62.0	69.6	99.3	81.3	90.3	99.7
27	A 7501	80.7	68.0	79.7	73.7	58.7	62.0	70.4	101.0	83.3	92.2	101.4
28	PRO 386	83.7	68.0	82.3	73.7	59.3	62.7	71.6	100.0	86.0	93.0	103.7
29	PRO 385	81.3	67.7	79.7	73.0	56.0	63.0	70.1	102.0	80.7	91.3	100.9
	CHECKS											
30	SEEDTECH 2324	79.7	67.7	77.3	72.0	58.7	62.3	69.6	100.0	80.3	90.2	100.2
31	BULAND	83.7	67.3	83.0	72.3	61.7	63.0	71.8	99.0	85.3	92.2	103.9
32	BIO 9681	78.3	65.3	77.0	75.0	55.0	58.0	68.1	100.3	78.3	89.3	98.9
	Loc. Mean	80.9	66.4	79.5	73.6	58.6	62.3	70.2	100.0	81.6	90.8	101.1
	C.D. (5%)	1.80	1.45	2.76	5.93	0.89	2.61	2.31	1.66	4.54	4.27	1.57
	C.V. (%)	1.34	1.34	2.12	4.94	0.93	2.57	2.89	1.01	3.41	2.31	2.37
	F (Prob)	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No.1(Cont...)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK LUDH	KARN	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 Mean
1	NMH-1247	171.0	174.3	184.0	132.7	165.5	162.7	157.0	146.3	117.7	181.0	152.9
2	Bisco x5141	177.0	174.3	185.0	132.3	167.2	162.3	156.7	149.7	113.3	181.0	152.6
3	HKH-415	177.7	175.7	182.3	134.3	167.5	162.3	160.7	149.7	118.3	181.0	154.4
4	HKH-416	176.0	174.0	178.3	133.0	165.3	159.3	158.0	148.7	115.7	181.0	152.5
5	HKH-417	175.7	177.0	180.7	141.3	168.7	162.0	156.0	148.3	115.3	181.0	152.5
6	KH-B 54	178.0	173.3	182.3	140.3	168.5	162.3	160.3	150.7	119.3	181.0	154.7
7	KH-3479	178.0	179.3	186.3	130.7	168.6	160.7	158.0	149.3	116.7	181.0	153.1
8	BIO 237	176.7	174.7	184.7	132.3	167.1	163.3	160.0	150.3	115.7	181.0	154.1
9	KMH-7148	177.0	176.0	183.0	133.0	167.3	164.7	160.3	153.0	121.0	181.0	156.0
10	HTMH5105	177.7	172.7	186.7	141.7	169.7	165.3	162.3	153.7	121.0	181.0	156.7
11	WNZPBTS 1	171.3	166.3	178.7	134.7	162.8	149.7	152.0	140.0	109.3	181.0	146.4
12	JH-273	177.7	171.3	184.3	135.3	167.2	160.3	158.0	148.0	116.3	181.0	152.7
13	JH-289	175.3	171.3	185.0	133.3	166.3	163.3	161.7	149.0	115.3	181.0	154.1
14	JH-270	176.7	176.0	188.7	124.7	166.5	162.3	162.0	151.0	119.7	181.0	155.2
15	JH-342	177.7	178.3	185.0	130.7	167.9	163.7	159.3	149.7	118.3	181.0	154.4
16	JH-291	174.3	171.0	179.7	141.3	166.6	160.3	155.7	145.7	114.3	181.0	151.4
17	JH-290	175.3	171.3	182.7	135.3	166.2	163.3	157.3	148.7	114.3	181.0	152.9
18	JH-367	176.7	175.7	181.7	137.3	167.8	163.7	159.3	149.7	117.3	181.0	154.2
19	JH-31512	175.7	173.7	184.7	138.7	168.2	163.3	157.7	148.7	114.7	181.0	153.1
20	JH-31512	174.7	176.0	186.3	144.7	170.4	160.7	157.7	150.0	116.0	181.0	153.1
21	JH-31596	177.0	170.3	183.7	127.3	164.6	161.7	155.3	150.0	112.0	181.0	152.0
22	X35B352	176.0	177.0	181.0	136.3	167.6	160.3	156.0	147.7	115.3	181.0	152.1
23	X35B339	175.3	172.0	182.0	134.7	166.0	160.7	157.0	147.3	115.0	181.0	152.2
24	X35B349	177.7	173.7	182.0	133.7	166.8	162.3	160.0	148.7	117.0	181.0	153.8
25	X35B348	178.0	176.0	186.3	141.7	170.5	163.3	159.7	150.0	118.3	181.0	154.5
26	X35B361	177.0	173.0	179.0	122.7	162.9	163.3	159.0	153.0	117.3	181.0	154.7
27	A 7501	177.7	170.7	181.0	139.7	167.3	165.7	158.0	150.0	118.3	181.0	154.6
28	PRO 386	179.3	180.7	184.3	137.7	170.5	164.0	162.0	154.3	120.0	181.0	156.3
29	PRO 385	173.7	172.0	183.7	136.0	166.3	161.3	157.7	148.0	114.0	181.0	152.4
	CHECKS											
30	SEEDTECH 2324	176.0	173.3	182.7	134.3	166.6	164.3	157.7	149.0	118.0	181.0	154.0
31	BULAND	178.3	175.7	190.3	140.7	171.3	161.3	157.7	147.3	118.0	181.0	153.1
32	BIO 9681	175.7	172.0	181.3	126.3	163.8	160.7	157.7	148.0	113.7	181.0	152.2
	Loc. Mean	176.3	174.0	183.4	135.0	167.2	162.0	158.4	149.2	116.5	181.0	153.4
	C.D. (5%)	2.58	2.84	3.84	2.60	4.43	1.02	3.36	2.86	2.40-		1.91
	C.V. (%)	0.90	1.00	1.28	1.18	1.89	0.38	1.30	1.18	1.26-		0.99
	F (Prob)	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00-		0.00

DAYS TO 75% DRY HUSK

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	NMH-1247	124.0	100.3	125.0	117.7	103.7	108.7	113.2	146.3	122.0	134.2	139.7
2	Bisco x5141	125.0	103.3	123.3	116.3	105.0	110.7	113.9	147.0	119.7	133.3	140.1
3	HKH-415	121.0	105.0	122.3	118.0	104.0	107.7	113.0	146.3	123.7	135.0	140.6
4	HKH-416	122.3	105.0	123.3	116.3	100.0	107.7	112.4	146.0	123.0	134.5	139.3
5	HKH-417	124.0	100.0	121.3	113.3	102.0	107.0	111.3	146.3	123.3	134.8	139.7
6	KH-B 54	130.3	102.0	122.3	114.7	104.7	110.0	114.0	146.0	126.0	136.0	141.4
7	KH-3479	122.7	104.0	124.3	116.0	103.3	111.3	113.6	143.7	123.3	133.5	140.5
8	BIO 237	120.3	99.3	124.0	117.7	105.0	110.0	112.7	146.0	122.0	134.0	140.2
9	KMH-7148	-	100.3	121.7	118.7	103.7	109.3	110.7	146.0	122.7	134.3	142.0
10	HTMH5105	126.7	104.0	125.3	115.7	104.7	111.3	114.6	146.0	123.7	134.8	142.3
11	WNZPBTS 1	116.3	100.0	113.3	114.3	95.7	101.7	106.9	136.7	116.3	126.5	134.0
12	JH-273	125.3	104.3	125.0	117.0	105.0	110.3	114.5	146.3	123.0	134.7	140.5
13	JH-289	124.0	101.3	123.7	116.3	105.7	111.3	113.7	145.0	124.7	134.8	140.4
14	JH-270	128.3	103.7	128.0	115.7	109.3	112.3	116.2	145.0	124.3	134.7	141.7
15	JH-342	124.7	104.0	124.3	117.7	105.0	108.7	114.1	146.3	123.7	135.0	141.1
16	JH-291	114.7	100.7	121.7	117.3	100.3	109.0	110.6	147.0	119.7	133.3	138.5
17	JH-290	123.0	99.3	123.3	115.7	103.7	110.0	112.5	147.3	123.0	135.2	139.7
18	JH-367	128.3	107.3	122.0	115.3	104.7	111.0	114.8	146.7	124.0	135.3	141.3
19	JH-31512	125.0	106.0	126.0	114.3	105.7	110.7	114.6	146.7	124.0	135.3	141.0
20	JH-31512	123.3	105.7	125.7	117.7	104.7	110.7	114.6	147.7	124.0	135.8	141.5
21	JH-31596	120.7	98.7	122.7	117.3	102.3	108.7	111.7	146.3	121.3	133.8	138.6
22	X35B352	120.3	99.3	122.3	116.3	102.3	107.3	111.3	146.0	123.0	134.5	139.3
23	X35B339	121.7	102.7	119.0	115.7	102.7	109.0	111.8	147.0	122.3	134.7	139.1
24	X35B349	125.7	103.7	123.0	116.3	105.0	110.0	113.9	147.3	127.3	137.3	140.8
25	X35B348	129.0	104.7	121.3	117.0	105.3	111.0	114.7	147.0	126.3	136.7	142.1
26	X35B361	128.7	99.7	125.3	113.7	104.3	108.7	113.4	147.0	122.0	134.5	139.7
27	A 7501	126.7	104.3	123.7	116.7	104.0	108.7	114.0	147.0	128.7	137.8	141.3
28	PRO 386	131.0	105.3	126.3	115.7	104.0	109.7	115.3	145.7	128.7	137.2	142.9
29	PRO 385	124.7	103.7	124.0	115.3	102.0	110.0	113.3	147.0	123.0	135.0	139.8
	CHECKS											
30	SEEDTECH 2324	122.3	104.0	120.3	117.7	103.7	109.3	112.9	146.3	122.3	134.3	140.1
31	BULAND	123.3	104.0	127.0	116.3	105.0	109.0	114.1	145.7	123.7	134.7	141.4
32	BIO 9681	124.7	101.0	121.0	115.7	100.0	106.0	111.4	146.3	121.3	133.8	138.4
	Loc. Mean	120.3	102.7	123.2	116.2	103.6	109.3	113.1	146.0	123.3	134.7	140.3
	C.D. (5%)	3.18	1.31	3.19	3.85	0.92	2.31	2.47	1.80	5.03	3.35	1.55
	C.V. (%)	1.62	0.78	1.59	2.03	0.55	1.29	1.91	0.76	2.50	1.22	1.64
	F (Prob)	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.02	0.01	0.00

Table No.1 (Cont...)

S.No.	PEDIGREE	PLANT HEIGHT(cm) LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 Mean
1	NMH-1247	151.3	195.3	216.7	161.3	195.0	183.9	215.7	153.8	184.0	191.1	136.3	176.2
2	Bisco x5141	162.3	166.7	222.7	167.7	164.3	176.7	200.7	168.2	189.0	167.9	126.7	170.5
3	HKH-415	135.0	151.0	193.0	144.0	174.3	159.5	182.3	127.5	147.0	150.6	117.7	145.0
4	HKH-416	144.3	128.3	186.7	137.7	190.7	157.5	182.3	166.7	162.5	157.5	126.0	159.0
5	HKH-417	166.3	149.3	218.7	169.3	185.3	177.8	209.0	152.2	178.5	184.2	133.7	171.5
6	KH-B 54	136.7	186.7	200.0	154.0	191.3	173.7	203.7	154.3	169.0	169.5	139.3	167.2
7	KH-3479	168.7	169.3	229.7	172.3	180.7	184.1	201.7	170.8	181.5	184.5	143.7	176.4
8	BIO 237	200.7	209.3	260.0	198.3	169.3	207.5	225.0	166.7	199.0	190.7	166.0	189.5
9	KMH-7148	161.3	174.3	215.3	173.3	185.3	181.9	217.0	159.2	191.5	192.2	155.3	183.0
10	HTMH5105	169.0	170.0	212.0	165.0	185.3	180.3	201.0	165.5	201.5	174.3	171.3	182.7
11	WNZPBTS 1	126.7	149.3	159.3	144.3	174.7	150.9	165.3	149.2	139.0	167.3	121.0	148.4
12	JH-273	166.3	163.3	218.7	171.0	174.7	178.8	209.0	174.3	193.0	183.9	132.3	178.5
13	JH-289	175.3	188.0	227.0	184.0	176.0	190.1	211.0	152.5	197.5	195.1	147.0	180.6
14	JH-270	186.7	178.0	242.3	187.3	198.7	198.6	210.0	153.5	202.5	190.9	146.7	180.7
15	JH-342	154.0	181.7	212.0	160.0	174.0	176.3	184.0	146.5	164.0	173.6	117.7	157.2
16	JH-291	150.7	148.3	187.0	142.3	197.0	165.1	195.3	150.3	147.0	170.1	139.3	160.4
17	JH-290	166.3	169.0	212.3	170.7	194.7	182.6	207.7	162.2	174.0	192.5	127.7	172.8
18	JH-367	162.0	160.0	206.0	163.3	196.0	177.5	220.3	168.8	169.0	173.1	137.3	173.7
19	JH-31512	176.0	175.0	246.7	183.0	189.0	193.9	216.3	180.2	197.5	203.2	140.7	187.6
20	JH-31512	184.3	173.3	238.7	190.7	194.7	196.3	220.0	170.8	205.0	205.7	148.0	189.9
21	JH-31596	158.0	174.0	188.0	154.0	194.7	173.7	184.0	165.0	169.0	170.8	121.3	162.0
22	X35B352	182.7	170.7	248.7	182.7	186.3	194.2	216.7	179.7	205.5	182.9	162.5	189.5
23	X35B339	178.0	173.3	241.3	180.0	175.3	189.6	224.0	168.2	215.0	192.9	160.0	192.0
24	X35B349	167.0	176.7	223.7	165.7	178.3	182.3	216.3	163.7	191.5	193.4	147.7	182.5
25	X35B348	185.3	186.0	263.3	201.0	164.3	200.0	236.7	183.7	223.0	201.0	157.0	200.3
26	X35B361	179.0	182.3	240.0	179.0	198.7	195.8	212.7	164.5	195.0	181.0	148.3	180.3
27	A 7501	148.3	134.0	193.7	143.7	167.7	157.5	193.0	159.2	170.5	169.7	109.0	160.3
28	PRO 386	158.3	171.7	208.0	176.7	186.0	180.1	198.7	180.3	178.0	171.3	131.7	172.0
29	PRO 385	159.3	178.3	212.7	154.7	181.3	177.3	201.7	162.0	187.5	180.1	114.7	169.2
	CHECKS												
30	SEEDTECH 2324	143.3	176.7	188.7	153.3	197.0	171.8	202.3	160.8	179.5	168.3	120.7	166.3
31	BULAND	180.0	166.0	223.3	176.7	199.7	189.1	212.3	170.5	184.0	184.7	142.3	178.8
32	BIO 9681	180.0	189.3	233.7	172.0	169.0	188.8	221.0	169.2	192.5	189.4	143.8	183.2
	Loc. Mean	164.5	170.8	217.8	168.1	184.0	181.0	206.1	163.1	183.8	181.4	138.5	174.6
	C.D. (5%)	18.14	18.79	25.72	16.89	2.51	15.81	18.53	29.17	9.38	9.99	24.58	11.63
	C.V. (%)	6.76	6.74	7.24	6.16	0.83	6.98	5.51	10.96	3.12	3.38	10.87	5.32
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00

Table No.1 (Cont...)

S.No.	PEDIGREE	PLANT HEIGHT(cm) ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	NMH-1247	210.5	271.7	211.7	185.3	205.7	170.3	209.2	237.0	220.7	228.8	195.2
2	Bisco x5141	193.5	266.7	200.0	195.0	206.4	165.8	204.6	218.8	211.3	215.1	188.5
3	HKH-415	176.0	215.0	183.3	191.0	169.0	152.5	181.2	203.5	183.3	193.4	166.5
4	HKH-416	183.0	233.3	168.3	218.7	184.4	151.7	189.9	267.1	191.0	229.1	176.7
5	HKH-417	180.5	248.3	176.7	194.7	189.8	155.6	190.9	290.7	195.0	242.8	187.7
6	KH-B 54	203.0	245.0	211.7	210.3	188.3	161.8	203.4	220.3	175.7	198.0	184.5
7	KH-3479	213.5	251.7	191.7	202.3	199.7	155.8	202.5	205.3	215.0	210.1	191.0
8	BIO 237	218.5	271.7	220.0	211.0	212.5	167.5	216.9	227.1	221.7	224.4	207.5
9	KMH-7148	-	286.7	198.3	200.0	204.8	170.2	212.0	270.6	205.7	238.1	197.7
10	HTMH5105	216.5	273.3	203.3	194.3	191.1	173.6	208.7	207.2	207.3	207.3	193.4
11	WNZPBTS 1	161.5	201.7	180.0	201.3	184.3	167.7	182.7	208.1	171.7	189.9	165.1
12	JH-273	204.5	245.0	190.0	211.7	209.6	187.8	208.1	251.9	215.0	233.5	194.6
13	JH-289	214.5	283.3	206.7	206.7	210.9	166.7	214.8	258.8	206.0	232.4	200.4
14	JH-270	228.5	285.0	196.7	207.3	214.2	161.1	215.5	250.4	237.0	243.7	204.3
15	JH-342	181.5	261.7	198.3	217.7	193.5	163.4	202.7	228.7	195.3	212.0	183.8
16	JH-291	179.0	245.0	171.7	213.0	149.8	156.1	185.8	285.5	173.3	229.4	177.8
17	JH-290	202.0	251.7	183.3	198.7	193.0	158.3	197.8	240.6	208.3	224.5	189.6
18	JH-367	193.5	235.0	186.7	207.3	202.8	162.5	198.0	242.2	195.0	218.6	187.8
19	JH-31512	230.0	273.3	190.0	199.7	227.8	180.8	216.9	252.0	236.0	244.0	205.4
20	JH-31512	229.5	288.3	190.0	205.3	222.3	149.6	214.2	228.7	244.3	236.5	205.0
21	JH-31596	181.5	215.0	180.0	212.7	187.9	160.2	189.5	248.8	192.3	220.6	181.0
22	X35B352	208.0	276.7	211.7	228.0	213.0	187.9	220.9	273.9	229.3	251.6	208.2
23	X35B339	212.5	278.3	216.7	219.0	212.2	170.7	218.2	255.4	232.7	244.1	205.9
24	X35B349	211.5	278.3	211.7	206.0	204.7	150.5	210.5	235.5	210.7	223.1	196.3
25	X35B348	225.5	298.3	221.7	224.3	216.4	168.3	225.8	208.9	231.7	220.3	210.9
26	X35B361	223.5	293.3	220.0	214.3	207.7	149.9	218.1	228.4	245.7	237.1	203.5
27	A 7501	181.5	235.0	196.7	211.0	174.1	182.3	196.8	284.1	200.0	242.1	180.7
28	PRO 386	196.5	255.0	191.7	228.3	195.6	174.4	206.9	260.5	186.7	223.6	191.6
29	PRO 385	212.5	298.3	190.0	229.7	203.6	168.5	217.1	247.0	215.0	231.0	194.3
	CHECKS											
30	SEEDTECH 2324	183.5	258.3	185.0	219.3	184.5	166.8	199.6	245.6	183.0	214.3	184.3
31	BULAND	213.5	288.3	186.7	225.3	216.2	178.8	218.1	210.3	221.0	215.7	198.9
32	BIO 9681	206.5	263.3	201.7	219.0	200.0	162.5	208.8	263.7	221.7	242.7	199.9
	Loc. Mean	202.5	261.6	196.0	209.6	199.2	165.6	205.8	242.4	208.7	225.5	192.4
	C.D. (5%)	11.69	24.11	24.81	33.94	7.32	31.83	14.73	8.05	24.87	48.63	8.63
	C.V. (%)	3.48	5.65	7.75	9.92	2.25	11.78	6.28	2.04	7.30	10.57	6.85
	F (Prob)	0.00	0.00	0.00	0.59	0.00	0.65	0.00	0.00	0.00	0.68	0.00

Table No.1(Cont...)

S.No.	PEDIGREE	EAR HEIGHT(cm) LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 Mean
1	NMH-1247	62.7	92.0	98.7	78.3	54.7	77.3	107.3	81.2	95.5	94.9	47.8	94.7
2	Bisco x5141	70.7	74.7	99.7	82.3	60.7	77.6	100.3	70.3	79.0	75.7	48.7	81.3
3	HKH-415	47.7	74.0	79.3	68.0	64.7	66.7	93.0	66.3	62.0	60.7	46.8	70.5
4	HKH-416	62.3	59.0	78.7	64.3	66.7	66.2	89.7	71.2	75.0	68.5	44.5	76.1
5	HKH-417	74.3	64.3	93.0	88.3	54.3	74.9	103.3	79.2	80.5	84.8	44.3	86.9
6	KH-B 54	48.3	91.7	90.3	75.0	63.0	73.7	110.3	75.8	85.0	85.3	49.3	89.1
7	KH-3479	66.3	81.3	98.7	84.3	62.3	78.6	94.7	83.2	90.5	77.6	52.0	86.5
8	BIO 237	96.0	105.3	126.0	101.7	62.7	98.3	108.7	78.0	96.5	78.3	58.3	90.4
9	KMH-7148	48.0	70.3	79.3	70.7	59.3	65.5	98.3	72.2	79.0	72.4	44.7	80.5
10	HTMH5105	74.3	88.3	96.0	91.3	58.3	81.7	100.7	75.5	106.5	79.3	48.0	90.5
11	WNZPBTS 1	41.0	58.0	53.3	63.7	62.3	55.7	76.3	67.8	59.0	59.9	37.8	65.8
12	JH-273	78.7	71.7	92.7	91.0	57.7	78.3	96.3	80.0	91.5	89.0	51.8	89.2
13	JH-289	81.7	105.7	101.3	100.0	63.7	90.5	109.3	66.7	94.0	91.5	45.5	90.4
14	JH-270	85.0	69.3	115.3	101.7	64.3	87.1	137.0	73.5	109.0	91.3	46.5	102.7
15	JH-342	80.0	108.3	99.3	84.7	62.3	86.9	127.3	66.7	85.0	74.1	46.5	88.3
16	JH-291	80.0	69.0	86.3	76.7	58.7	74.1	102.7	67.2	76.5	78.5	47.2	81.2
17	JH-290	65.7	71.7	91.3	69.0	57.3	71.0	100.7	73.2	76.5	85.9	39.2	84.1
18	JH-367	70.3	63.3	88.3	82.7	63.3	73.6	105.7	76.2	82.5	72.7	55.1	84.3
19	JH-31512	74.0	71.7	102.7	92.3	60.7	80.3	109.7	85.8	97.5	95.5	52.0	97.1
20	JH-31512	77.7	77.3	106.3	97.7	64.7	84.7	97.7	79.2	104.0	98.2	49.2	94.8
21	JH-31596	58.7	79.3	74.0	64.3	58.7	67.0	113.3	75.0	64.0	72.6	40.5	81.2
22	X35B352	80.0	73.0	109.3	89.7	61.3	82.7	106.3	84.3	98.0	80.5	74.5	92.3
23	X35B339	79.3	79.0	102.3	83.3	54.3	79.7	109.0	79.2	99.0	76.1	64.7	90.8
24	X35B349	56.0	81.7	88.3	73.3	69.7	73.8	102.0	79.3	78.0	77.3	62.7	84.2
25	X35B348	79.3	86.3	127.3	111.3	60.3	92.9	125.3	83.3	116.5	88.5	68.3	103.4
26	X35B361	82.0	87.3	101.0	81.0	61.3	82.5	96.7	74.5	86.0	79.5	61.0	84.2
27	A 7501	54.0	58.3	81.3	71.7	53.7	63.8	97.0	79.3	80.5	71.1	40.5	82.0
28	PRO 386	67.3	88.3	89.0	96.0	61.7	80.5	95.0	89.3	94.0	73.1	49.5	87.9
29	PRO 385	62.7	69.7	83.3	69.3	62.3	69.5	102.7	77.0	94.0	68.8	35.8	85.6
	CHECKS												
30	SEEDTECH 2324	70.7	90.7	90.7	86.0	62.7	80.1	110.3	80.8	90.0	80.5	53.0	90.4
31	BULAND	88.0	87.3	100.0	90.0	58.7	84.8	108.7	80.2	104.0	86.7	47.5	94.9
32	BIO 9681	82.7	75.7	100.3	80.0	58.7	79.5	118.3	79.5	91.5	78.9	65.8	92.1
	Loc. Mean	70.2	78.9	94.5	83.1	60.8	77.5	104.8	76.6	88.1	79.6	50.6	87.3
	C.D. (5%)	15.69	17.75	16.31	14.66	2.17	11.11	32.61	21.14	9.91	6.44	18.54	11.03
	C.V. (%)	13.70	13.79	10.58	10.81	2.18	11.45	19.07	16.91	6.89	4.96	22.45	9.00
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.92	0.00	0.00	0.01	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : GOSSAIGAON 22.5%

Table No.1(Cont...)

S.No.	PEDIGREE	EAR HEIGHT(cm) ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	NMH-1247	109.0	120.0	126.7	87.7	121.9	78.4	107.3	103.7	115.3	109.5	95.8
2	Bisco x5141	93.5	103.3	118.3	87.7	118.9	92.9	102.4	88.8	105.0	96.9	89.5
3	HKH-415	85.0	90.0	116.7	96.0	94.5	73.3	92.6	89.0	92.3	90.7	79.6
4	HKH-416	96.0	91.7	101.7	107.3	115.3	77.6	98.3	110.5	101.3	105.9	84.5
5	HKH-417	81.0	103.3	100.0	96.0	103.4	75.3	93.2	107.2	97.3	102.3	87.4
6	KH-B 54	105.5	103.3	121.7	101.3	105.9	77.5	102.5	83.8	83.3	83.6	88.7
7	KH-3479	92.0	90.0	110.0	101.7	108.5	73.9	96.0	80.5	103.0	91.7	88.1
8	BIO 237	108.0	115.0	126.7	106.0	126.0	84.1	111.0	97.3	110.3	103.8	101.6
9	KMH-7148	-	103.3	103.3	101.7	104.3	83.0	99.1	80.6	81.0	80.8	81.7
10	HTMH5105	110.0	106.7	120.0	94.7	105.9	87.3	104.1	93.1	98.7	95.9	93.3
11	WNZPBTS 1	66.5	81.7	88.3	95.0	98.9	84.4	85.8	90.3	79.3	84.8	72.1
12	JH-273	101.0	103.3	116.7	102.7	118.4	86.3	104.7	90.5	108.3	99.4	92.7
13	JH-289	113.0	123.3	143.3	101.7	117.4	85.2	114.0	98.8	101.0	99.9	99.9
14	JH-270	122.0	135.0	120.0	103.0	119.9	92.2	115.4	77.3	127.3	102.3	102.5
15	JH-342	91.5	120.0	128.3	107.7	117.4	79.6	107.4	93.8	99.7	96.7	95.6
16	JH-291	87.5	100.0	106.7	103.7	92.2	71.8	93.6	114.0	87.0	100.5	85.8
17	JH-290	89.0	96.7	101.7	94.0	106.2	74.3	93.6	103.9	96.7	100.3	85.5
18	JH-367	95.0	108.3	116.7	106.3	113.5	85.1	104.1	90.2	90.7	90.4	88.9
19	JH-31512	128.0	125.0	115.0	95.3	128.3	85.9	112.9	93.9	118.3	106.1	98.8
20	JH-31512	128.0	126.7	111.7	100.0	131.6	79.2	112.9	83.8	131.0	107.4	99.7
21	JH-31596	81.0	96.7	100.0	106.0	90.3	79.1	92.2	102.0	90.7	96.3	82.7
22	X35B352	96.0	118.3	121.7	113.3	119.5	91.4	110.0	110.7	111.0	110.9	97.9
23	X35B339	98.5	103.3	121.7	110.3	117.5	88.3	106.6	88.9	105.0	97.0	93.8
24	X35B349	99.0	113.3	121.7	108.7	106.5	78.5	104.6	110.7	89.3	100.0	90.2
25	X35B348	105.5	130.0	136.7	115.3	126.4	89.9	117.3	95.5	119.0	107.3	105.7
26	X35B361	107.5	116.7	111.7	107.3	112.0	81.7	106.1	95.6	114.3	105.0	93.9
27	A 7501	88.5	103.3	115.0	111.3	99.4	91.7	101.5	115.7	100.0	107.9	86.6
28	PRO 386	96.0	111.7	110.0	121.3	103.4	99.7	107.0	98.6	88.3	93.5	93.1
29	PRO 385	98.5	95.0	106.7	117.3	103.4	75.8	99.4	94.0	96.0	95.0	86.9
	CHECKS											
30	SEEDTECH 2324	93.0	108.3	126.7	112.3	117.4	82.6	106.7	107.9	96.7	102.3	94.5
31	BULAND	126.0	136.7	131.7	113.3	129.1	89.8	121.1	97.2	128.3	112.8	103.3
32	BIO 9681	98.5	100.0	118.3	117.0	105.0	80.2	103.2	104.0	107.3	105.7	93.9
	Loc. Mean	99.7	108.8	116.1	104.5	111.8	83.0	104.0	96.6	102.3	99.4	91.7
	C.D. (5%)	9.10	19.38	18.51	25.79	6.90	14.71	9.60	6.73	18.01	25.98	5.96
	C.V. (%)	5.50	10.92	9.77	15.13	3.78	10.86	8.09	4.27	10.79	12.81	9.65
	F (Prob)	0.00	0.00	0.00	0.67	0.00	0.04	0.00	0.00	0.00	0.77	0.00

TABLE No.2

PERFORMANCE OF MEDIUM & EARLY MATURING EXPERIMENTAL HYBRIDS AT LUDHIANA, KARNAL, PANTNAGAR, DELHI, KANPUR, BAHRAICH, DHOLI,VARANASI, RANCHI, BHUBANESHWAR, GOSSAIGAON,ARBHAVI, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, VAGARAI,BANSWARA, GODHARA IN IET TRIAL No: TR02 & TR03(IET-ME) DURING RABI 2011-12.

GRAIN YIELD (kg/ha) AT 15% MOISTURE

Sl No	PEDIGREE	LUDH	R	KARN	R	PANT	R	DELH	R	KANP	R	ZN 2 MEAN	R	BAHR	R	DHOL	R
1	VaMH 08013	5359	12	9843	7	9908	2	6036	4	8773	5	7984	8	9205	2	5964	2
2	VaMH 08014	6269	10	12043	2	8730	7	5552	7	8174	9	8154	6	7698	9	5451	5
3	HKH 323	7278	5	9094	11	8498	8	5450	8	8818	4	7828	9	7039	13	5166	8
4	HKH 324	7242	6	7771	13	9460	5	4224	13	8656	6	7471	10	7103	12	4983	13
5	HKH 325	7648	2	9176	10	7987	11	7145	2	9060	2	8203	5	8548	4	4901	14
6	HKH 326	5420	11	9359	9	7774	12	4404	11	7240	14	6839	13	7168	11	5076	10
7	HKH 327	7143	7	10128	6	9343	6	5132	10	8500	7	8049	7	8062	5	5319	7
8	HKH 328	7419	3	10569	5	9570	4	5280	9	8966	3	8361	4	6914	14	5629	4
9	KH-6847	9791	1	11975	3	12290	1	7299	1	7951	10	9861	1	10015	1	5951	3
10	VEH 11-1	7380	4	11207	4	9843	3	5735	5	7802	12	8393	3	7900	6	6016	1
11	HKH 329	4123	14	9700	8	8272	10	4313	12	8175	8	6917	12	7858	7	5071	11
12	HKH 330	5125	13	7647	14	7121	14	3281	14	7265	13	6088	14	7516	10	5011	12
	CHECKS																
13	PRAKASH	6603	9	13325	1	8412	9	5709	6	9360	1	8682	2	8856	3	5114	9
14	BIO 9637	6662	8	7979	12	7272	13	6981	3	7825	11	7343	11	7817	8	5345	6
	Location Mean	6676		9987		8891		5467		8326		7869		7978		5357	
	Mean Stand	39		37		33		32		35		35		28		32	
	C.D. (5%)	1580		856		1424		1700		1888		1489		807		714	
	C.V. (%)	14.07		5.1		9.53		18.49		13.48		-		6.01		7.93	
	F (Prob)	0		0		0		0.003		0.433				0		0.015	
	Plot Size	4.8		6		6		6		4.8		-		4.8		4.8	
	AGRONOMY DATA																
	Sowing Date	28-11		21-11		30-11		22-11		18-12		-		27-11		30-11	
	Harvest Date	7-06		25-05		6-06		3-05		15-05		-		13-05		29-05	
	Irrigation Nos	18		6		6		11		5		-		4		-	
	Ferilizer Applie	70		150		120		150		120		-		150		150	
	Ferilizer Applie	24		60		60		75		60		-		75		70	
	Ferilizer Applie	12		60		40		75		60		-		60		50	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 35.8 %

TABLE No.2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE													
		VARA	R	RANC	R	BHUB	R	GOSS	R	ZN 3 MEAN	R	ARBH	R	KARI	R	KOLH	R
1	VaMH 08013	7514	14	8718	3	6294	4	4950	5	7539	4	6950	7	11365	6	7223	5
2	VaMH 08014	9956	6	7666	8	5966	8	4988	4	7347	6	8430	2	10721	10	7129	6
3	HKH 323	9618	9	7949	5	6018	7	5684	3	7158	9	7751	4	11063	7	6306	10
4	HKH 324	10740	3	7395	10	6173	6	4819	6	7279	7	7292	6	9321	14	6493	9
5	HKH 325	8603	13	9580	2	6202	5	3949	10	7567	3	6602	8	11704	4	5441	13
6	HKH 326	10486	4	6415	12	5720	9	4547	7	6973	12	5995	10	11015	8	6271	11
7	HKH 327	9859	7	8050	4	4922	14	5848	2	7242	8	4598	13	10455	11	7623	3
8	HKH 328	9164	11	7445	9	5394	12	3153	14	6909	13	6282	9	10857	9	4827	14
9	KH-6847	10862	2	9674	1	7453	1	3701	13	8791	1	8469	1	13696	1	8471	2
10	VEH 11-1	10338	5	7758	6	6377	3	6021	1	7678	2	7752	3	12141	2	9019	1
11	HKH 329	9263	10	7151	11	6435	2	3994	9	7156	10	4414	14	9397	13	6217	12
12	HKH 330	9635	8	5627	13	5680	10	3795	11	6694	14	4716	12	9679	12	6737	7
	CHECKS																
13	PRAKASH	8729	12	7706	7	5155	13	3712	12	7112	11	5404	11	11580	5	7267	4
14	BIO 9637	11338	1	-		5578	11	4247	8	7520	5	7511	5	11764	3	6580	8
	Location Mean	9722		7780		5955		4529		7358		6583		11054		6829	
	Mean Stand	38		34		31		37		32		32		33		35	
	C.D. (5%)	1485		1737		264		2725		1001		1784		1055		1913	
	C.V. (%)	9.08		13.22		2.63		35.78		-		16.11		5.68		16.66	
	F (Prob)	0.002		0.014		0		0.61				0.002		0		0.001	
	Plot Size	4.8		4.8		5.1		4.8		-		6		4.8		6	
	AGRONOMY DATA																
	Sowing Date	30-11		12-12		6-12		23-11		-		22-11		25-11		17-12	
	Harvest Date	6-05		6-06		11-04		24-05		-		27-04		28-03		16-05	
	Irrigation Nos	-		10		12		3		-		8		-		-	
	Ferilizer Applie	150		120		120		80		-		150		-		120	
	Ferilizer Applie	75		60		60		40		-		75		-		60	
	Ferilizer Applie	60		40		60		40		-		37.5		-		40	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 35.8 %

TABLE No.2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						ZN 4						ZN 5		OV'L	
		MAND	R	COIM	R	VAGA	R	MEAN	R	BANS	R	GODH	R	MEAN	R	MEAN	R
1	VaMH 08013	7737	4	9959	7	9595	1	8805	3	6295	12	3818	14	5057	13	7809	5
2	VaMH 08014	5774	14	10424	3	7352	7	8305	5	8668	4	5441	7	7055	5	7858	3
3	HKH 323	7177	8	8206	12	5845	13	7725	9	6627	8	5949	6	6288	8	7436	10
4	HKH 324	8029	2	8173	13	6455	11	7627	10	7254	6	5411	8	6332	7	7343	11
5	HKH 325	7072	10	8430	11	6109	12	7560	11	6278	13	4739	10	5508	11	7512	9
6	HKH 326	8066	1	10011	5	6919	10	8046	8	7173	7	7000	2	7086	4	7306	12
7	HKH 327	7730	5	10096	4	8139	3	8107	7	8788	3	7408	1	8098	2	7850	4
8	HKH 328	6041	13	8481	10	7123	8	7268	12	8911	2	6731	3	7821	3	7533	7
9	KH-6847	7740	3	10862	2	9027	2	9711	1	10691	1	6077	5	8384	1	9350	1
10	VEH 11-1	6239	12	11287	1	7820	5	9043	2	6531	10	6161	4	6346	6	8184	2
11	HKH 329	7144	9	8688	9	6950	9	7135	13	7449	5	4507	12	5978	9	6952	13
12	HKH 330	6871	11	7965	14	5587	14	6926	14	6369	11	5281	9	5825	10	6506	14
	CHECKS																
13	PRAKASH	7214	7	9979	6	7933	4	8229	6	5128	14	4667	11	4898	14	7674	6
14	BIO 9637	7389	6	9602	8	7702	6	8425	4	6558	9	3889	13	5224	12	7517	8
	Location Mean	7159		9440		7325		8065		7337		5506		6421		7632	
	Mean Stand	35		31		25		32		28		34		31		33	
	C.D. (5%)	1730		1162		836		1413		1278		913		1096		1285	
	C.V. (%)	14.37		7.32		6.79		-		10.36		7.61		-		-	
	F (Prob)	0.255		0		0				0		0					
	Plot Size	5.6		4.8		4.8		-		4.8		4.8		-		-	
	AGRONOMY DATA																
	Sowing Date	7-12		5-01		29-12		-		5-12		26-11		-		-	
	Harvest Date	7-05		3-05		27-04		-		12-05		27-04		-		-	
	Irrigation Nos	12		10		11		-		6		9		-		-	
	Ferilizer Applie	150		150		200		-		150		150		-		-	
	Ferilizer Applie	75		75		75		-		80		60		-		-	
	Ferilizer Applie	40		75		75		-		-		-		-		-	

TABLE No.2 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE PRAKASH

Sl No	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 MEAN
1	VaMH 08013	-	-	17.8	5.7	-	-	4	16.6	-	13.1	22.1	33.4	6
2	VaMH 08014	-	-	3.8	-	-	-	-	6.6	14.1	-	15.7	34.4	3.3
3	HKH 323	10.2	-	1	-	-	-	-	1	10.2	3.2	16.7	53.1	0.7
4	HKH 324	9.7	-	12.5	-	-	-	-	-	23	-	19.8	29.8	2.3
5	HKH 325	15.8	-	-	25.2	-	-	-	-	-	24.3	20.3	6.4	6.4
6	HKH 326	-	-	-	-	-	-	-	-	20.1	-	11	22.5	-
7	HKH 327	8.2	-	11.1	-	-	-	-	4	12.9	4.5	-	57.5	1.8
8	HKH 328	12.4	-	13.8	-	-	-	-	10.1	5	-	4.6	-	-
9	KH-6847	48.3	-	46.1	27.8	-	13.6	13.1	16.4	24.4	25.5	44.6	-	23.6
10	VEH 11-1	11.8	-	17	0.5	-	-	-	17.6	18.4	0.7	23.7	62.2	8
11	HKH 329	-	-	-	-	-	-	-	-	6.1	-	24.8	7.6	0.6
12	HKH 330	-	-	-	-	-	-	-	-	10.4	-	10.2	2.2	-
	CHECKS													
13	PRAKASH	-	-	-	-	-	-	-	-	-	-	-	-	-
14	BIO 9637	0.9	-	-	22.3	-	-	-	4.5	29.9	-	8.2	14.4	5.7

GRAIN YIELD % SUPERIORITY OVER THE PRAKASH

Sl No	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	VaMH 08013	28.6	-	-	7.3	-	21	7	22.8	-	3.2	1.8
2	VaMH 08014	56	-	-	-	4.5	-	0.9	69	16.6	44	2.4
3	HKH 323	43.4	-	-	-	-	-	-	29.2	27.5	28.4	-
4	HKH 324	34.9	-	-	11.3	-	-	-	41.5	15.9	29.3	-
5	HKH 325	22.2	1.1	-	-	-	-	-	22.4	1.5	12.5	-
6	HKH 326	10.9	-	-	11.8	0.3	-	-	39.9	50	44.7	-
7	HKH 327	-	-	4.9	7.2	1.2	2.6	-	71.4	58.7	65.3	2.3
8	HKH 328	16.2	-	-	-	-	-	-	73.8	44.2	59.7	-
9	KH-6847	56.7	18.3	16.6	7.3	8.8	13.8	18	108.5	30.2	71.2	21.8
10	VEH 11-1	43.4	4.8	24.1	-	13.1	-	9.9	27.4	32	29.6	6.6
11	HKH 329	-	-	-	-	-	-	-	45.3	-	22.1	-
12	HKH 330	-	-	-	-	-	-	-	24.2	13.1	18.9	-
	CHECKS											
13	PRAKASH	-	-	-	-	-	-	-	-	-	-	-
14	BIO 9637	39	1.6	-	2.4	-	-	2.4	27.9	-	6.7	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 33.8 %

TABLE No.2 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE BIO 9637

Sl No	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 MEAN
1	VaMH 08013	-	23.4	36.3	-	12.1	8.7	17.8	11.6	-	-	12.8	16.6	0.3
2	VaMH 08014	-	50.9	20.1	-	4.5	11	-	2	-	-	7	17.5	-
3	HKH 323	9.3	14	16.9	-	12.7	6.6	-	-	-	-	7.9	33.8	-
4	HKH 324	8.7	-	30.1	-	10.6	1.7	-	-	-	-	10.7	13.5	-
5	HKH 325	14.8	15	9.8	2.4	15.8	11.7	9.4	-	-	-	11.2	-	0.6
6	HKH 326	-	17.3	6.9	-	-	-	-	-	-	-	2.5	7.1	-
7	HKH 327	7.2	26.9	28.5	-	8.6	9.6	3.1	-	-	-	-	37.7	-
8	HKH 328	11.4	32.5	31.6	-	14.6	13.9	-	5.3	-	-	-	-	-
9	KH-6847	47	50.1	69	4.6	1.6	34.3	28.1	11.3	-	-	33.6	-	16.9
10	VEH 11-1	10.8	40.5	35.4	-	-	14.3	1.1	12.5	-	-	14.3	41.8	2.1
11	HKH 329	-	21.6	13.8	-	4.5	-	0.5	-	-	-	15.4	-	-
12	HKH 330	-	-	-	-	-	-	-	-	-	-	1.8	-	-
	CHECKS													
13	PRAKASH	-	67	15.7	-	19.6	18.2	13.3	-	-	-	-	-	-
14	BIO 9637	-	-	-	-	-	-	-	-	-	-	-	-	-

GRAIN YIELD % SUPERIORITY OVER THE BIO 9637

Sl No	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	VaMH 08013	-	-	9.8	4.7	3.7	24.6	4.5	-	-	-	3.9
2	VaMH 08014	12.2	-	8.3	-	8.6	-	-	32.2	39.9	35.1	4.5
3	HKH 323	3.2	-	-	-	-	-	-	1	53	20.4	-
4	HKH 324	-	-	-	8.7	-	-	-	10.6	39.1	21.2	-
5	HKH 325	-	-	-	-	-	-	-	-	21.9	5.5	-
6	HKH 326	-	-	-	9.2	4.3	-	-	9.4	80	35.7	-
7	HKH 327	-	-	15.9	4.6	5.1	5.7	-	34	90.5	55	4.4
8	HKH 328	-	-	-	-	-	-	-	35.9	73.1	49.7	0.2
9	KH-6847	12.8	16.4	28.7	4.8	13.1	17.2	15.3	63	56.3	60.5	24.4
10	VEH 11-1	3.2	3.2	37.1	-	17.5	1.5	7.3	-	58.4	21.5	8.9
11	HKH 329	-	-	-	-	-	-	-	13.6	15.9	14.4	-
12	HKH 330	-	-	2.4	-	-	-	-	-	35.8	11.5	-
	CHECKS											
13	PRAKASH	-	-	10.4	-	3.9	3	-	-	20	-	2.1
14	BIO 9637	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.>20%) : GOSS 35.8 %

Table No.2 (Cont..)

MOISTURE % AT HARVEST

S.No.	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	VaMH 08013	15.6	27.5	19.2	13.7	14.0	18.0	25.1	15.7	34.8	22.7	17.4	22.3	23.0
2	VaMH 08014	18.5	28.0	22.8	13.3	14.7	19.4	23.1	16.0	30.1	20.7	16.9	22.7	21.6
3	HKH 323	22.4	27.8	21.2	14.4	14.3	20.0	23.3	15.0	31.9	21.7	18.2	21.0	21.8
4	HKH 324	23.4	29.9	20.1	12.1	14.0	19.9	22.9	16.4	29.6	21.8	16.2	21.3	21.4
5	HKH 325	22.8	30.2	18.0	13.3	12.7	19.4	23.0	15.6	30.5	21.2	16.6	20.7	21.2
6	HKH 326	24.2	22.4	16.5	12.0	13.3	17.7	23.2	16.6	33.4	20.8	18.8	21.6	22.4
7	HKH 327	23.8	26.0	22.6	12.4	15.0	20.0	23.3	16.3	29.8	22.7	18.4	22.5	22.2
8	HKH 328	21.0	25.5	19.2	14.4	14.3	18.9	23.1	16.6	30.6	21.4	17.0	22.7	21.9
9	KH-6847	12.1	26.3	15.2	11.2	13.0	15.5	24.4	16.0	29.2	20.3	17.2	20.2	21.2
10	VEH 11-1	23.7	25.6	24.8	13.3	14.3	20.3	23.0	16.5	33.2	23.7	18.8	22.2	22.9
11	HKH 329	18.8	26.6	19.3	12.3	15.0	18.4	22.9	16.3	28.0	21.3	16.9	20.7	21.0
12	HKH 330	12.4	28.0	16.8	12.3	14.0	16.7	21.9	13.8	24.7	20.2	16.6	21.5	19.8
	CHECKS													
13	PRAKASH	14.4	24.8	17.2	13.2	14.3	16.8	23.0	16.3	25.7	20.8	17.1	20.5	20.5
14	BIO 9637	21.2	28.4	24.2	11.1	14.3	19.8	23.1	15.6	31.1	-	16.9	21.3	21.6
	Loc. Mean	19.6	26.9	19.8	12.8	14.1	18.6	23.2	15.9	30.2	21.5	17.4	21.5	21.6
	C.D. (5%)	1.63	0.93	1.91	1.71	1.11	3.00	0.62	0.80	2.43	2.45-		0.93	1.35
	C.V. (%)	4.96	2.06	5.76	7.97	4.67	12.71	1.60	3.01	4.80	6.53-		2.58	5.42
	F (Prob)	0.00	0.00	0.00	0.01	0.01	0.04	0.00	0.00	0.00	0.15-		0.00	0.00

Table No.2 (Cont..)

MOISTURE % AT HARVEST

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	VaMH 08013	16.0	15.1	12.6	14.6	22.5	18.1	16.5	17.1	14.5	15.8	18.9
2	VaMH 08014	15.6	13.6	13.1	12.9	22.6	17.9	15.9	17.3	12.6	14.9	18.5
3	HKH 323	18.6	15.5	13.6	13.9	21.0	14.3	16.1	16.5	10.7	13.6	18.7
4	HKH 324	16.3	16.8	12.7	14.6	18.2	16.8	15.9	16.9	12.8	14.9	18.6
5	HKH 325	15.5	12.2	13.7	15.5	21.3	17.7	16.0	16.9	13.2	15.0	18.4
6	HKH 326	13.6	14.3	14.0	15.3	20.1	15.9	15.5	16.3	10.5	13.4	18.0
7	HKH 327	13.8	15.3	13.2	15.6	19.2	16.6	15.6	17.7	13.4	15.5	18.8
8	HKH 328	17.3	14.6	13.8	13.2	18.6	16.2	15.6	16.8	12.2	14.5	18.3
9	KH-6847	15.8	15.5	12.7	15.2	19.4	17.9	16.1	17.5	12.2	14.9	17.4
10	VEH 11-1	19.2	14.7	13.6	14.8	24.3	17.6	17.3	16.9	14.1	15.5	19.7
11	HKH 329	13.8	15.2	12.7	13.8	20.5	16.6	15.4	16.9	13.1	15.0	17.9
12	HKH 330	14.3	17.2	11.6	15.4	16.8	16.0	15.2	16.4	11.5	13.9	16.9
	CHECKS											
13	PRAKASH	14.7	16.4	12.3	14.9	19.5	15.4	15.5	16.8	13.8	15.3	17.4
14	BIO 9637	15.4	14.8	13.8	14.6	21.8	18.6	16.5	16.9	11.8	14.3	18.6
	Loc. Mean	15.7	15.1	13.1	14.6	20.4	16.8	15.9	16.9	12.6	14.7	18.3
	C.D. (5%)	1.43	0.00	0.71	1.43	1.92	1.60	1.58	0.62	0.00	1.62	1.05
	C.V. (%)	5.43	0.00	3.23	5.87	5.61	5.68	8.62	2.20	0.00	5.07	9.00
	F (Prob)	0.00	0.00	0.00	0.01	0.00	0.00	0.47	0.01	0.00	0.14	0.00

Table No.2 (Cont..)

S.No.	PEDIGREE	GRAIN SHELLING % LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	VaMH 08013	69.5	82.0	89.4	86.3	73.5	80.1	78.9	80.9	80.5	87.4	83.5	71.9	80.5
2	VaMH 08014	71.4	84.4	85.1	84.6	73.3	79.8	74.7	78.5	77.3	83.7	80.7	73.1	78.0
3	HKH 323	77.7	84.9	84.7	84.1	74.0	81.1	70.1	81.8	79.5	83.9	82.8	76.4	79.1
4	HKH 324	68.1	80.3	86.4	82.7	74.3	78.4	74.3	77.6	81.5	84.4	81.3	64.5	77.3
5	HKH 325	83.3	79.1	87.2	85.4	73.3	81.7	77.1	79.8	75.5	83.9	82.0	75.3	78.9
6	HKH 326	73.6	78.9	88.4	82.7	74.3	79.6	75.3	80.0	80.0	77.8	80.7	67.7	76.9
7	HKH 327	75.0	81.4	85.0	82.0	74.3	79.5	74.9	80.9	77.5	84.3	80.0	75.5	78.9
8	HKH 328	71.4	83.5	86.4	84.6	75.3	80.2	76.4	82.6	79.5	84.0	83.1	56.5	77.0
9	KH-6847	78.7	81.4	86.9	87.6	74.3	81.8	80.0	81.8	81.3	86.4	82.0	77.5	81.5
10	VEH 11-1	75.0	81.9	88.2	83.2	73.3	80.3	78.1	82.3	79.3	84.8	80.5	73.6	79.8
11	HKH 329	75.0	85.2	84.7	83.0	73.0	80.2	75.3	76.4	80.8	82.6	82.8	63.0	76.8
12	HKH 330	78.5	80.7	84.5	79.9	74.7	79.7	73.8	76.4	76.5	80.0	79.3	65.8	75.3
	CHECKS													
13	PRAKASH	71.4	85.9	89.0	85.4	74.3	81.2	81.7	76.4	79.3	85.0	79.7	74.7	79.4
14	BIO 9637	78.1	81.4	89.1	86.2	73.0	81.6	73.5	82.3	80.0	-	81.1	81.9	79.8
	Loc. Mean	74.8	82.2	86.8	84.1	73.9	80.4	76.0	79.8	79.2	83.7	81.4	71.2	78.5
	C.D. (5%) -		1.11	2.67	2.06	1.65	3.22	2.32	2.90	3.08	2.64-		17.78	3.85
	C.V. (%) -		0.80	1.83	1.46	1.33	3.16	1.82	2.17	2.32	1.80-		14.87	4.25
	F (Prob)	0.00	0.00	0.00	0.00	0.18	0.70	0.00	0.00	0.01	0.00-		0.30	0.13

Table No.2 (Cont..)

GRAIN SHELLING %

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	VaMH 08013	85.1	85.3	84.7	81.7	78.6	78.8	82.4	70.9	81.6	76.3	80.5
2	VaMH 08014	83.2	75.0	81.6	83.1	79.3	81.9	80.7	70.9	87.1	79.0	79.4
3	HKH 323	83.3	71.7	82.2	80.5	74.7	75.2	77.9	70.3	86.7	78.5	79.2
4	HKH 324	81.0	71.7	77.8	79.6	75.2	81.2	77.7	69.4	61.7	65.6	76.5
5	HKH 325	86.4	75.0	85.8	81.3	81.7	80.9	81.8	66.6	85.0	75.8	80.2
6	HKH 326	83.1	72.3	83.7	83.0	79.3	81.5	80.5	71.6	86.8	79.2	79.0
7	HKH 327	83.5	77.7	83.8	80.4	77.7	80.1	80.5	72.4	81.6	77.0	79.4
8	HKH 328	83.2	72.7	83.1	81.1	79.4	77.7	79.5	70.5	85.7	78.1	78.8
9	KH-6847	83.4	82.7	83.7	82.2	80.7	81.1	82.3	69.4	80.5	74.9	81.1
10	VEH 11-1	82.4	71.7	77.9	82.1	79.2	76.6	78.3	71.2	80.0	75.6	79.0
11	HKH 329	80.3	76.7	84.0	80.1	79.5	78.3	79.8	71.5	81.8	76.6	78.6
12	HKH 330	80.5	74.7	84.9	80.5	79.1	83.1	80.5	67.9	82.9	75.4	78.1
	CHECKS											
13	PRAKASH	83.9	80.0	84.8	79.8	81.3	81.2	81.8	67.2	81.6	74.4	80.1
14	BIO 9637	84.9	72.0	83.7	83.5	80.8	79.8	80.8	67.8	83.3	75.6	80.1
	Loc. Mean	83.1	75.6	83.0	81.3	79.0	79.8	80.3	69.8	81.9	75.8	79.3
	C.D. (5%) -	1.97	3.22	1.35	1.57	1.51	1.70	2.57	1.69	0.00	9.83	1.90
	C.V. (%) -	1.41	2.54	0.97	1.15	1.14	1.27	2.77	1.44	0.00	6.00	3.75
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00

Table No.2 (Cont..)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	VaMH 08013	79.9	62.2	56.7	58.3	74.0	68.2	61.8	72.2	82.6	75.7	61.4	73.6	71.2
2	VaMH 08014	81.3	60.6	56.7	60.0	72.9	67.8	56.9	70.8	81.9	75.0	60.8	83.3	71.5
3	HKH 323	79.9	61.1	56.7	52.8	73.6	67.8	52.1	69.4	79.9	62.5	62.7	75.7	67.1
4	HKH 324	87.5	60.6	56.7	58.3	77.1	70.5	57.6	70.8	81.9	74.3	58.8	82.6	71.0
5	HKH 325	75.7	62.2	52.8	56.7	71.5	65.6	59.0	65.3	74.3	57.6	56.9	76.4	64.9
6	HKH 326	75.7	60.0	52.2	33.9	69.4	64.3	54.9	61.1	77.8	64.6	62.1	75.7	66.0
7	HKH 327	84.7	61.1	56.7	58.3	72.9	68.9	60.4	63.2	81.9	75.0	58.2	72.2	68.5
8	HKH 328	86.8	61.7	56.7	61.7	71.5	69.2	50.0	68.8	79.2	74.3	60.8	83.3	69.4
9	KH-6847	85.4	60.6	55.0	63.9	74.3	68.8	68.8	67.4	79.9	75.0	60.1	83.3	72.4
10	VEH 11-1	77.8	60.0	55.0	43.3	72.9	66.4	56.9	66.7	80.6	68.8	59.5	68.1	66.7
11	HKH 329	79.9	59.4	55.6	60.0	73.6	67.1	63.2	69.4	81.9	70.1	62.1	81.3	71.3
12	HKH 330	84.0	64.4	56.7	43.9	72.2	69.3	57.6	67.4	79.2	71.5	60.8	83.3	70.0
	CHECKS													
13	PRAKASH	86.1	63.3	56.7	54.4	75.0	70.3	59.7	66.7	78.5	64.6	62.7	75.7	68.0
14	BIO 9637	67.4	61.7	51.1	41.7	73.6	63.4	45.1	61.8	74.3	22.2	61.4	76.4	56.9
	Loc. Mean	80.9	61.3	55.4	53.4	73.2	67.7	57.4	67.2	79.6	66.5	60.6	77.9	68.2
	C.D. (5%)	8.26	1.57	5.34	19.73	4.95	3.86	6.32	11.08	5.77	11.80	4.79	16.64	6.90
	C.V. (%)	6.08	1.53	5.75	22.03	4.03	3.99	6.56	9.82	4.32	10.57	4.71	12.72	8.77
	F (Prob)	0.00	0.00	0.40	0.10	0.40	0.02	0.00	0.66	0.09	0.00	0.38	0.70	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : DELHI 22.0%

Table No.2 (Cont..)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	VaMH 08013	55.6	77.8	62.8	63.7	65.3	55.6	63.4	59.0	70.8	64.9	67.3
2	VaMH 08014	53.3	78.5	66.7	66.7	65.3	54.9	64.2	59.0	74.0	66.5	67.7
3	HKH 323	54.4	54.2	54.4	64.9	66.0	49.3	57.2	57.6	64.6	61.1	63.3
4	HKH 324	57.8	80.6	61.1	58.9	65.3	49.3	62.2	56.3	70.8	63.5	67.1
5	HKH 325	50.6	68.1	60.0	61.9	66.0	49.3	59.3	59.7	58.3	59.0	62.5
6	HKH 326	47.8	68.8	45.0	64.3	66.7	48.6	56.8	56.9	72.9	64.9	62.5
7	HKH 327	53.9	70.8	62.8	64.3	64.6	50.7	61.2	59.7	83.3	71.5	66.5
8	HKH 328	60.0	79.2	66.1	66.1	66.0	51.4	64.8	57.6	81.3	69.4	67.8
9	KH-6847	62.8	58.3	53.9	63.7	66.0	50.7	59.2	61.8	64.6	63.2	66.2
10	VEH 11-1	49.4	78.5	63.3	63.1	65.3	56.3	62.6	59.7	72.9	66.3	65.3
11	HKH 329	55.6	74.3	63.9	61.3	64.6	52.8	62.1	56.3	77.1	66.7	66.8
12	HKH 330	65.6	66.0	61.7	62.5	66.0	49.3	61.8	59.0	74.0	66.5	66.7
	CHECKS											
13	PRAKASH	49.4	65.3	62.2	61.3	66.0	55.6	60.0	57.6	81.3	69.4	66.0
14	BIO 9637	36.7	47.2	33.9	64.3	65.3	50.0	49.6	54.9	38.5	46.7	54.8
	Loc. Mean	53.8	69.1	58.4	63.4	65.6	51.7	60.3	58.2	70.3	64.3	65.0
	C.D. (5%)	15.83	7.93	9.55	5.23	1.74	6.15	6.47	3.84	12.57	17.03	3.50
	C.V. (%)	17.54	6.84	9.74	4.92	1.58	7.09	9.30	3.93	8.28	12.26	8.20
	F (Prob)	0.12	0.00	0.00	0.28	0.50	0.12	0.00	0.08	0.00	0.39	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : DELHI 22.0%

Table No.2 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED												
		LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	VaMH 08013	141.0	136.0	127.3	132.3	97.5	126.8	128.3	119.7	111.7	115.0	69.7	115.7	110.0
2	VaMH 08014	138.3	134.0	126.3	129.3	95.7	124.7	125.7	115.7	107.0	113.3	68.7	109.3	106.6
3	HKH 323	140.7	131.7	128.7	133.0	95.0	125.8	128.3	122.0	113.0	115.3	69.3	112.0	110.0
4	HKH 324	140.3	137.3	128.3	133.0	97.0	127.2	128.7	121.3	111.0	112.0	68.0	107.7	108.1
5	HKH 325	141.7	132.0	126.7	131.7	96.0	125.6	125.3	119.7	108.0	114.3	67.7	115.0	108.3
6	HKH 326	140.7	136.7	130.0	131.0	95.0	126.7	126.3	115.3	112.3	112.0	67.7	107.7	106.9
7	HKH 327	143.0	137.3	129.7	132.7	95.3	127.6	127.3	119.3	111.0	109.3	68.7	111.7	107.9
8	HKH 328	136.0	132.0	127.0	129.7	95.0	123.9	128.3	118.3	109.0	112.3	68.7	106.0	107.1
9	KH-6847	141.0	132.7	126.3	129.3	93.0	124.5	125.7	123.7	108.7	112.0	68.7	112.3	108.5
10	VEH 11-1	142.0	136.7	129.0	132.7	91.7	126.4	127.7	119.3	112.0	113.0	69.7	115.0	109.4
11	HKH 329	139.0	138.0	128.7	131.3	96.3	126.7	127.3	117.7	110.3	112.0	67.0	110.3	107.4
12	HKH 330	138.3	130.3	127.7	128.7	99.0	124.8	123.7	115.7	104.3	110.0	66.7	108.0	104.7
	CHECKS													
13	PRAKASH	135.3	130.7	123.7	127.7	98.3	123.1	124.3	115.3	104.3	108.7	66.3	106.0	104.2
14	BIO 9637	141.3	131.0	129.7	133.0	93.7	125.7	126.0	119.0	112.7	-	68.0	111.3	107.4
	Loc. Mean	139.9	134.0	127.8	131.1	95.6	125.7	126.6	118.7	109.7	112.3	68.2	110.6	107.6
	C.D. (5%)	2.67	1.97	1.93	2.06	2.86	2.44	1.41	3.48	1.40	3.10	1.40	5.31	2.14
	C.V. (%)	1.14	0.88	0.90	0.94	1.79	1.53	0.66	1.75	0.76	1.58	1.23	2.86	1.72
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00

Table No.2 (Cont..)

DAYS TO 50% POLLEN SHED

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	VaMH 08013	79.0	59.7	77.3	66.3	55.7	60.7	66.4	92.7	79.0	85.8	98.1
2	VaMH 08014	76.7	60.7	75.7	64.0	53.0	58.0	64.7	91.3	75.0	83.2	95.7
3	HKH 323	79.7	59.7	77.0	65.7	55.7	60.0	66.3	93.0	77.0	85.0	97.7
4	HKH 324	77.0	60.0	77.0	67.0	53.7	60.7	65.9	91.7	78.0	84.8	97.4
5	HKH 325	77.0	60.7	75.7	66.0	50.7	58.3	64.7	88.7	73.5	81.1	96.2
6	HKH 326	78.7	59.3	77.0	68.0	53.3	59.0	65.9	89.3	78.5	83.9	96.7
7	HKH 327	77.7	59.3	76.0	66.7	51.7	59.3	65.1	93.3	74.0	83.7	97.0
8	HKH 328	75.3	59.3	76.0	65.3	52.3	59.3	64.6	88.0	74.5	81.3	95.4
9	KH-6847	77.3	60.3	75.3	67.0	52.3	58.0	65.1	90.7	73.0	81.8	96.2
10	VEH 11-1	78.7	60.3	76.7	64.7	53.7	59.3	65.6	93.0	77.0	85.0	97.5
11	HKH 329	77.3	59.7	76.3	66.7	50.7	58.3	64.8	91.7	74.0	82.8	96.5
12	HKH 330	75.3	64.0	74.7	66.7	51.7	57.3	64.9	90.3	73.5	81.9	95.0
	CHECKS											
13	PRAKASH	71.0	59.3	70.3	66.7	49.0	55.7	62.0	88.7	71.0	79.8	93.3
14	BIO 9637	77.0	59.7	76.7	67.3	53.3	61.7	65.9	93.0	75.5	84.3	96.1
	Loc. Mean	77.0	60.1	75.8	66.3	52.6	59.0	65.1	91.1	75.3	83.2	96.3
	C.D. (5%)	1.56	1.46	2.17	2.63	1.10	1.91	1.53	1.62	3.31	3.46	1.26
	C.V. (%)	1.21	1.44	1.71	2.37	1.25	1.93	2.04	1.06	2.03	1.93	2.05
	F (Prob)	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.06	0.00

Table No.2 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% SILKING LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	VaMH 08013	146.0	139.0	130.3	134.7	105.5	131.1	130.3	121.3	118.0	120.3	72.0	122.7	114.1
2	VaMH 08014	142.3	136.7	129.3	131.3	102.0	128.3	127.3	117.7	112.3	118.0	71.0	118.3	110.8
3	HKH 323	144.7	134.7	131.7	135.3	101.0	129.5	130.3	123.0	118.7	121.0	72.0	123.3	114.7
4	HKH 324	144.0	140.0	131.7	135.0	103.7	130.9	130.7	123.3	115.7	117.3	70.3	115.0	112.1
5	HKH 325	144.3	135.0	130.3	134.0	102.0	129.1	127.3	121.3	115.0	119.7	69.7	126.0	113.2
6	HKH 326	145.3	139.7	132.7	132.7	101.3	130.3	128.0	117.3	115.7	117.3	69.3	116.0	110.6
7	HKH 327	146.0	139.7	133.0	135.0	102.0	131.1	129.3	121.7	116.7	114.7	71.0	119.7	112.2
8	HKH 328	139.7	134.3	130.0	131.7	102.0	127.5	130.3	120.3	114.0	117.0	71.7	118.7	112.0
9	KH-6847	145.0	135.3	129.3	131.7	100.0	128.3	127.7	122.3	114.0	117.0	70.7	123.3	112.5
10	VEH 11-1	146.7	139.3	132.0	134.7	97.7	130.1	129.3	121.7	117.0	118.3	71.7	119.7	112.9
11	HKH 329	146.0	140.3	131.3	133.3	103.3	130.9	129.0	121.0	114.7	117.3	69.3	117.3	111.4
12	HKH 330	143.3	133.3	130.7	132.0	105.7	129.0	125.7	118.0	111.3	114.3	69.0	114.7	108.8
	CHECKS													
13	PRAKASH	140.0	134.0	126.3	130.0	105.0	127.1	126.3	117.3	110.0	113.3	69.0	115.3	108.6
14	BIO 9637	144.7	133.3	132.3	134.7	99.3	128.9	128.0	120.7	116.7	-	70.3	117.7	110.7
	Loc. Mean	144.1	136.8	130.8	133.3	102.2	129.4	128.5	120.5	115.0	117.4	70.5	119.1	111.8
	C.D. (5%)	2.41	1.87	2.18	1.75	3.08	2.42	1.54	2.54	1.94	3.52	1.64	6.38	2.05
	C.V. (%)	1.00	0.82	1.00	0.78	1.80	1.48	0.71	1.25	1.01	1.72	1.38	3.19	1.59
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00

Table No.2 (Cont..)

DAYS TO 50% SILKING

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	VaMH 08013	81.7	63.3	78.3	68.7	57.7	63.3	68.8	96.7	85.0	90.8	101.8
2	VaMH 08014	77.7	64.3	76.7	66.0	55.0	60.7	66.7	95.0	81.0	88.0	99.1
3	HKH 323	81.0	63.0	78.0	67.7	57.7	62.0	68.2	97.0	82.0	89.5	101.3
4	HKH 324	78.0	63.7	78.0	68.3	55.7	62.3	67.7	95.7	82.0	88.8	100.5
5	HKH 325	77.0	64.0	76.7	68.3	52.7	60.3	66.5	92.7	78.5	85.6	99.7
6	HKH 326	79.7	63.3	78.0	70.0	55.3	61.0	67.9	93.3	83.0	88.2	99.9
7	HKH 327	79.3	64.7	77.0	68.0	53.7	62.0	67.4	97.3	79.5	88.4	100.5
8	HKH 328	76.7	64.0	77.0	66.7	54.3	62.3	66.8	92.0	81.0	86.5	99.1
9	KH-6847	77.3	63.3	76.3	69.3	54.3	61.0	66.9	94.7	77.5	86.1	99.5
10	VEH 11-1	79.3	64.0	77.7	66.3	55.7	62.0	67.5	97.0	81.5	89.3	100.6
11	HKH 329	78.3	64.0	77.3	68.7	52.7	61.3	67.1	95.3	78.5	86.9	100.0
12	HKH 330	77.7	67.7	75.7	68.7	54.3	61.0	67.5	94.3	80.0	87.2	98.8
	CHECKS											
13	PRAKASH	73.0	64.3	71.3	68.3	51.3	58.0	64.4	92.7	75.0	83.8	96.9
14	BIO 9637	76.7	63.7	77.7	69.7	55.3	64.0	67.8	96.7	80.5	88.6	99.0
	Loc. Mean	78.1	64.1	76.8	68.2	54.7	61.5	67.2	95.0	80.4	87.7	99.8
	C.D. (5%)	1.80	1.17	2.17	2.53	1.23	1.76	1.56	1.71	4.63	3.69	1.31
	C.V. (%)	1.38	1.09	1.68	2.21	1.34	1.70	2.01	1.07	2.67	1.95	2.06
	F (Prob)	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.04	0.08	0.00

Table No.2 (Cont..)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK LUDH	KARN	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	VaMH 08013	177.0	176.3	180.7	136.5	167.6	160.3	159.0	152.0	158.3	108.3	184.0	153.7
2	VaMH 08014	176.0	175.7	178.7	136.0	166.6	159.3	155.0	152.3	156.0	108.0	184.0	152.4
3	HKH 323	178.3	169.7	179.3	134.3	165.4	160.3	159.7	151.7	158.3	110.0	184.0	154.0
4	HKH 324	180.0	176.3	179.7	137.0	168.3	161.0	152.3	152.7	155.7	109.0	184.0	152.4
5	HKH 325	176.0	176.7	179.3	135.7	166.9	158.7	157.7	150.3	157.0	104.3	184.0	152.0
6	HKH 326	174.7	175.3	177.0	134.0	165.3	159.3	155.7	148.3	155.7	101.0	184.0	150.7
7	HKH 327	180.0	178.7	178.3	134.3	167.8	160.0	159.3	153.0	152.7	106.3	184.0	152.6
8	HKH 328	175.3	172.0	177.0	133.7	164.5	159.7	157.7	151.3	153.7	106.0	184.0	152.1
9	KH-6847	172.7	173.3	176.3	133.7	164.0	157.7	157.3	146.0	154.7	103.0	184.0	150.4
10	VEH 11-1	179.3	175.7	180.3	132.7	167.0	159.7	160.0	150.7	155.7	106.7	184.0	152.8
11	HKH 329	176.0	175.3	178.3	135.3	166.3	157.3	156.3	147.7	156.0	122.7	184.0	154.0
12	HKH 330	172.0	169.3	175.7	139.0	164.0	155.3	155.7	146.3	153.3	102.0	184.0	149.4
	CHECKS												
13	PRAKASH	172.3	169.0	175.7	136.3	163.3	155.7	156.3	145.0	151.0	101.0	184.0	148.8
14	BIO 9637	176.7	169.7	180.3	134.0	165.2	160.3	159.7	153.0	-	107.0	184.0	152.8
	Loc. Mean	176.2	173.8	178.3	135.2	165.9	158.9	157.3	150.0	155.2	106.8	184.0	152.0
	C.D. (5%)	3.67	2.59	3.39	2.84	3.05	0.84	5.77	1.49	4.99	15.57-		3.03
	C.V. (%)	1.24	0.89	1.13	1.25	1.29	0.32	2.19	0.59	1.84	8.68-		1.73
	F (Prob)	0.00	0.00	0.04	0.01	0.03	0.00	0.31	0.00	0.13	0.46-		0.02

Table No.2 (Cont..)

DAYS TO 75% DRY HUSK

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	VaMH 08013	126.0	91.7	113.3	105.7	105.0	106.0	107.9	132.3	116.5	124.4	138.3
2	VaMH 08014	123.3	92.7	111.7	107.3	102.0	102.3	106.6	130.3	116.0	123.2	137.0
3	HKH 323	127.0	91.7	113.0	108.7	105.7	103.7	108.3	130.3	118.0	124.2	138.0
4	HKH 324	128.0	92.0	113.0	110.3	102.0	104.3	108.3	130.0	119.0	124.5	138.1
5	HKH 325	118.3	92.7	111.7	108.0	96.7	102.7	105.0	126.3	115.5	120.9	136.2
6	HKH 326	110.7	91.3	113.0	112.3	102.3	103.0	105.4	124.0	117.5	120.8	135.5
7	HKH 327	113.0	91.3	112.0	111.7	102.0	104.7	105.8	132.0	117.5	124.8	137.3
8	HKH 328	117.3	91.3	112.3	108.7	100.0	103.3	105.5	123.0	117.0	120.0	135.7
9	KH-6847	114.0	92.3	111.3	111.0	100.3	103.0	105.3	128.7	116.5	122.6	135.3
10	VEH 11-1	124.7	92.3	112.7	110.7	102.7	104.0	107.8	131.7	116.5	124.1	137.8
11	HKH 329	110.7	91.7	112.3	109.3	95.7	102.7	103.7	130.7	112.0	121.3	136.3
12	HKH 330	110.3	96.0	110.0	109.7	101.3	102.3	104.9	125.0	114.5	119.8	134.5
	CHECKS											
13	PRAKASH	111.7	91.3	105.0	113.3	95.3	102.0	103.1	125.0	113.0	119.0	133.5
14	BIO 9637	123.3	91.7	112.7	110.7	102.0	105.3	107.6	131.0	114.5	122.8	136.2
	Loc. Mean	118.5	92.1	111.7	109.8	100.9	103.5	106.1	128.6	116.0	122.3	136.4
	C.D. (5%)	5.82	1.46	2.80	5.05	1.00	2.27	3.64	2.66	6.60	5.48	1.91
	C.V. (%)	2.93	0.94	1.49	2.74	0.59	1.31	2.98	1.23	2.63	2.07	2.13
	F (Prob)	0.00	0.00	0.00	0.23	0.00	0.03	0.08	0.00	0.65	0.36	0.00

Table No.2 (Cont..)

S.No.	PEDIGREE	PLANT HEIGHT(cm) LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	VaMH 08013	170.3	156.7	195.3	137.7	182.0	168.4	162.3	150.7	170.0	172.1	164.7	120.3	156.7
2	VaMH 08014	153.3	141.7	184.7	119.0	184.7	156.7	136.3	131.7	156.5	169.1	184.7	135.0	152.2
3	HKH 323	156.7	160.7	194.7	145.0	182.7	167.9	170.7	144.7	175.5	182.8	186.1	129.7	164.9
4	HKH 324	159.0	156.7	196.0	130.3	170.3	162.5	162.3	129.3	160.0	176.3	170.3	124.0	153.7
5	HKH 325	141.7	150.0	194.0	135.0	165.0	157.1	167.0	129.0	144.0	160.9	164.7	114.0	146.6
6	HKH 326	158.3	140.0	184.7	119.7	177.3	156.0	169.0	143.7	174.0	174.2	207.3	136.7	167.5
7	HKH 327	151.0	149.0	189.0	134.0	182.3	161.1	166.7	138.0	153.0	164.7	167.3	127.7	152.9
8	HKH 328	147.0	139.3	188.7	133.7	170.7	155.9	158.3	137.3	156.5	173.8	178.0	134.0	156.3
9	KH-6847	175.7	170.0	218.0	159.7	173.0	179.3	176.3	156.3	184.0	179.4	197.1	125.3	169.7
10	VEH 11-1	169.7	158.3	204.3	146.0	175.3	170.7	160.3	142.7	171.5	179.1	199.5	125.0	163.0
11	HKH 329	135.3	150.0	190.7	121.7	171.0	153.7	151.7	127.0	159.0	168.4	169.1	129.3	150.8
12	HKH 330	139.0	130.0	178.7	105.3	169.0	144.4	137.3	130.3	152.5	164.7	177.9	110.3	145.5
	CHECKS													
13	PRAKASH	157.0	146.7	197.7	142.0	173.7	163.4	165.7	133.7	148.0	171.2	177.7	137.3	155.6
14	BIO 9637	163.3	165.0	202.7	159.7	178.7	173.9	175.3	154.7	195.0	-	189.9	131.0	169.2
	Loc. Mean	155.5	151.0	194.2	134.9	175.4	162.2	161.4	139.2	164.3	172.1	181.0	127.1	157.5
	C.D. (5%)	17.00	16.61	17.21	20.34	9.04	9.24	16.84	16.80	8.38	11.61	11.69	34.45	9.74
	C.V. (%)	6.51	6.55	5.28	8.98	3.07	4.49	6.22	7.19	3.04	3.86	3.85	16.15	5.36
	F (Prob)	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.93	0.00

Table No.2 (Cont..)

S.No.	PEDIGREE	PLANT HEIGHT(cm) ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	VaMH 08013	165.5	241.7	173.3	205.3	187.7	169.5	190.5	192.3	181.5	186.9	173.6
2	VaMH 08014	164.0	228.3	166.7	207.3	201.2	158.4	187.7	212.2	186.5	199.3	169.5
3	HKH 323	182.5	250.0	175.0	209.7	186.0	166.1	194.9	207.2	192.5	199.9	178.8
4	HKH 324	173.5	238.3	171.7	213.0	183.3	170.0	191.6	205.6	180.0	192.8	172.1
5	HKH 325	161.5	210.0	155.0	212.7	170.8	164.1	179.0	190.9	160.0	175.4	162.6
6	HKH 326	185.0	240.0	185.0	218.0	190.8	159.1	196.3	202.4	201.0	201.7	177.2
7	HKH 327	161.0	218.3	208.3	215.3	181.1	155.6	190.0	203.9	162.5	183.2	169.9
8	HKH 328	170.5	233.3	156.7	211.3	192.4	167.3	188.6	212.0	183.0	197.5	170.7
9	KH-6847	198.0	228.3	183.3	220.3	206.3	165.9	200.4	184.0	202.5	193.3	184.4
10	VEH 11-1	194.5	235.0	188.3	213.3	195.5	157.7	197.4	203.8	187.5	195.6	179.3
11	HKH 329	161.0	205.0	170.0	214.7	187.4	154.5	182.1	207.7	168.5	188.1	165.4
12	HKH 330	158.0	218.3	175.0	219.3	193.0	158.3	187.0	192.2	168.5	180.4	162.0
	CHECKS											
13	PRAKASH	153.5	223.3	180.0	210.7	187.8	154.0	184.9	168.6	176.0	172.3	168.7
14	BIO 9637	200.0	251.7	184.0	217.0	198.8	183.3	205.8	173.9	217.5	195.7	185.6
	Loc. Mean	173.5	230.1	176.6	213.4	190.2	163.1	191.1	196.9	183.4	190.1	172.9
	C.D. (5%)	7.67	32.77	32.42	16.27	11.62	18.87	11.23	9.20	21.70	36.11	6.02
	C.V. (%)	2.63	8.49	10.94	4.54	3.64	6.89	5.09	2.79	5.48	8.79	5.45
	F (Prob)	0.00	0.17	0.20	0.82	0.00	0.17	0.00	0.00	0.00	0.80	0.00

Table No.2 (Cont..)

		EAR HEIGHT(cm)											
S.No.	PEDIGREE	LUDH	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	VaMH 08013	65.0	76.7	63.0	74.5	69.8	51.0	64.7	76.5	80.2	74.3	50.0	69.3
2	VaMH 08014	73.3	74.7	64.3	74.3	71.7	62.7	57.3	75.0	79.7	88.0	54.2	72.5
3	HKH 323	72.7	85.7	80.7	67.3	76.6	71.7	64.7	89.0	91.3	88.2	46.8	81.0
4	HKH 324	70.0	76.7	71.3	66.3	71.1	72.7	53.7	81.5	86.7	74.6	55.8	73.8
5	HKH 325	58.3	78.3	72.3	66.0	68.8	79.3	62.0	71.5	82.0	85.6	45.5	76.1
6	HKH 326	85.0	83.3	67.0	66.0	75.3	80.7	69.7	91.5	87.5	105.9	65.7	87.0
7	HKH 327	68.3	78.0	76.7	65.0	72.0	78.0	72.3	86.5	85.3	73.3	56.0	79.1
8	HKH 328	68.0	69.3	70.3	63.7	67.8	67.7	54.0	85.0	84.7	79.3	51.5	74.1
9	KH-6847	85.0	100.7	90.7	61.3	84.4	92.0	76.3	88.0	86.4	87.7	61.5	86.1
10	VEH 11-1	64.7	82.7	74.7	70.3	73.1	69.7	55.3	79.0	84.5	92.1	60.2	76.1
11	HKH 329	50.0	78.7	65.7	62.7	64.3	67.3	58.7	84.0	82.7	77.7	52.7	74.1
12	HKH 330	53.0	63.3	60.3	63.3	60.0	50.0	58.7	78.0	83.9	84.5	50.5	71.0
	CHECKS												
13	PRAKASH	81.0	82.7	79.3	61.3	76.1	87.7	61.0	65.5	77.7	74.5	30.7	73.3
14	BIO 9637	63.0	89.3	83.3	71.3	76.8	86.3	73.7	94.0	-	78.6	46.5	83.2
	Loc. Mean	68.4	80.0	72.8	66.7	72.0	72.6	63.0	81.8	84.0	83.2	52.0	76.9
	C.D. (5%)	13.93	9.63	10.94	3.14	9.91	16.33	13.40	6.68	13.22	9.32	26.91	9.43
	C.V. (%)	12.14	7.17	8.95	2.81	9.63	13.40	12.68	4.86	8.99	6.68	30.85	9.66
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.74	0.00	0.61	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : GOSSAIGAON 30.9%

Table No.2 (Cont..)

S.No.	PEDIGREE	EAR HEIGHT(cm) ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	VaMH 08013	69.5	90.0	100.0	103.3	101.9	86.7	91.9	98.9	84.5	91.7	80.0
2	VaMH 08014	75.5	88.3	98.3	108.0	107.4	83.4	93.5	108.9	92.5	100.7	83.0
3	HKH 323	76.0	100.0	100.0	105.0	101.9	83.2	94.4	115.4	100.0	107.7	87.8
4	HKH 324	72.5	85.0	98.3	116.7	93.8	85.9	92.0	103.9	87.5	95.7	82.2
5	HKH 325	79.5	80.0	90.0	114.7	95.9	78.9	89.8	87.3	82.5	84.9	80.2
6	HKH 326	86.5	96.7	110.0	118.3	105.8	78.9	99.4	105.6	113.5	109.6	91.3
7	HKH 327	84.0	91.7	108.3	110.7	109.4	85.5	98.3	111.8	81.5	96.7	86.3
8	HKH 328	82.5	86.7	90.0	118.3	103.3	83.5	94.0	114.1	98.5	106.3	83.5
9	KH-6847	92.0	85.0	90.0	119.3	108.0	83.3	96.3	94.0	98.0	96.0	90.5
10	VEH 11-1	84.0	83.3	105.0	112.3	110.9	80.5	96.0	107.1	87.5	97.3	84.9
11	HKH 329	84.5	86.7	106.7	112.0	120.6	87.2	99.6	108.9	91.0	100.0	83.8
12	HKH 330	70.5	81.7	101.7	128.7	104.2	86.2	95.5	90.5	86.5	88.5	79.1
	CHECKS											
13	PRAKASH	67.5	98.3	108.3	113.7	111.3	83.3	97.1	77.8	82.5	80.2	83.1
14	BIO 9637	90.0	98.3	108.3	122.3	101.4	84.7	100.9	80.3	107.0	93.7	89.5
	Loc. Mean	79.6	89.4	101.1	114.5	105.4	83.7	95.6	100.3	92.4	96.3	84.7
	C.D. (5%)	6.89	20.05	23.55	22.26	5.11	8.98	7.16	7.36	16.57	22.48	5.10
	C.V. (%)	5.15	13.36	13.88	11.58	2.89	6.40	6.50	4.37	8.31	10.80	8.90
	F (Prob)	0.00	0.54	0.67	0.66	0.00	0.69	0.10	0.00	0.02	0.32	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : GOSSAIGAON 30.9%

Table No.3

PERFORMANCE OF LATE AND MEDIUM MATURING EXPERIMENTAL HYBRIDS AT LUDHIANA, KARNAL, PANTNAGAR, DELHI, KANPUR, BAHRAICH, DHOLI, VARANASI,BHUBANESHWAR, GOSSAIGAON, ARBHAVI, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, VAGARAI, BANSWARA, GODHARA IN IN AET 1st YEAR TRIAL No: TR04 & TR05(AET1-LM) DURING RABI 2011-12.

		GRAIN YIELD (kg/ha) AT 15% MOISTURE															
Sl No	PEDIGREE	LUDH	R	KARN	R	PANT	R	DELH	R	KANP	R	ZN 2 MEAN	R	BAHR	R	DHOL	R	VARA	R
1	CMH08-239	6326	7	6020	15	10124	24	5745	15	12815	1	8206	11	7402	25	6550	18	10559	16
2	CMH08-259	4418	19	4712	28	10776	17	5158	22	4233	30	5859	30	7816	18	6939	6	11001	15
3	CMH08-282	7040	2	7609	5	10528	21	6136	11	11172	25	8497	6	8569	10	6044	27	9137	29
4	CMH08-287	5999	10	6802	10	10009	25	5088	24	11423	22	7864	18	7738	20	6959	5	9849	28
5	NMH-731	6177	9	5777	17	11321	10	7085	1	10951	28	8262	10	7940	15	6304	25	12730	3
6	NMH-713	3986	25	5597	20	13391	2	5492	19	11318	24	7957	16	8500	11	6580	16	12950	2
7	NMH-920	4008	24	4628	29	9503	28	4252	30	11822	9	6843	28	8732	9	6540	19	9885	27
8	NMH-666	7949	1	7053	8	12303	3	6375	8	10897	29	8915	3	5285	29	6496	20	12129	9
9	Bisco New 704	4990	16	3922	30	11390	8	6851	3	11601	17	7751	21	9499	2	6794	9	10425	18
10	Bisco x -5129	5608	13	5614	19	11157	11	5646	17	11775	12	7960	15	8749	8	6832	8	11948	11
11	Bisco x -9	6248	8	6416	12	12227	4	5027	25	11713	14	8326	9	7855	17	6618	13	11954	10
12	HKH 402	4313	21	6372	13	10888	15	4766	28	11597	18	7587	23	7921	16	6402	22	9901	26
13	HKH 408	3953	26	4945	25	8238	30	4901	26	11603	16	6728	29	7393	26	5634	28	10350	20
14	KH-274	3796	28	5151	23	9570	27	5251	20	11509	20	7055	27	8765	7	6275	26	10207	22
15	KMH-2689	3748	29	6299	14	10230	22	4710	29	11810	11	7359	25	7607	23	6401	23	10379	19
16	KMH-2700(25K45)	6858	4	8261	4	13620	1	6689	5	11401	23	9366	1	8432	13	7497	1	11731	12
17	NK 6607	4677	18	10363	1	10842	16	5816	14	11754	13	8690	4	9480	3	6937	7	12478	7
18	S 7700	5378	14	5089	24	11541	6	6763	4	12019	6	8158	12	9162	5	6576	17	12717	4
19	S 7720	5977	11	9194	3	11112	12	6991	2	12194	2	9094	2	9524	1	7175	2	11607	13
20	RJ-2020	4323	20	6616	11	11052	14	6172	10	10981	27	7829	20	3698	30	6592	15	12716	5

Table No.3 (Cont..)

Sl No	PEDIGREE	LUDH	R	KARN	R	PANT	R	DELH	R	KANP	R	ZN 2 MEAN	R	BAHR	R	DHOL	R	VARA	R
	GRAIN YIELD (kg/ha) AT 15% MOISTURE																		
21	RJMH-2 By 1	6982	3	7412	6	10531	20	5216	21	12149	4	8458	7	8065	14	6783	10	12416	8
22	A 7503	6666	6	4830	26	9359	29	6350	9	12186	3	7878	17	8459	12	6783	11	9903	25
23	PRO 380	5763	12	6995	9	11380	9	6104	13	11591	19	8367	8	7786	19	6429	21	11393	14
24	DHM 117	5041	15	5804	16	10628	19	6129	12	11619	15	7844	19	7364	28	6636	12	10106	23
25	NMH-1242	3380	30	7375	7	11082	13	6580	6	11877	7	8059	14	9408	4	6316	24	14501	1
26	BIO 151	4038	23	5226	22	11588	5	5740	16	11831	8	7685	22	7718	21	7038	3	10465	17
	CHECKS																		
27	BIO 9637	4262	22	4804	27	10649	18	5528	18	11816	10	7412	24	7518	24	5462	29	8637	30
28	SEED TECH 2324	4977	17	5556	21	11509	7	6546	7	12069	5	8131	13	7694	22	7013	4	12666	6
29	BULAND	6847	5	9697	2	10226	23	4826	27	11056	26	8530	5	7381	27	5445	30	10224	21
30	BIO 9681	3917	27	5703	18	9666	26	5120	23	11469	21	7175	26	9143	6	6597	14	10068	24
	Location Mean	5255		6328		10881		5768		11408		7928		8020		6555		11168	
	Mean Stand	69		72		67		55		76		68		58		69		76	
	C.D. (5%)	1355		392		1541		1330		2120		1347		1894		1381		1379	
	C.V. (%)	15.78		3.78		8.66		14.1		11.36		-		14.44		12.89		7.55	
	F (Prob)	0		0		0		0		0				0.001		0.516		0	
	Plot Size	9.6		12		12		12		9.6		-		9.6		9.6		9.6	
	AGRONOMY DATA																		
	Sowing Date	28-11		21-11		30-11		22-11		18-12		-		27-11		1-01		7-12	
	Harvest Date	7-06		25-05		4-06		3-05		15-05		-		16-05		28-05		9-05	
	Irrigation Nos	12		6		6		11		5		-		4		-		-	
	Ferilizer Appli	70		150		120		150		120		-		150		150		150	
	Ferilizer Appli	24		60		60		75		60		-		75		70		75	
	Ferilizer Appli	12		60		40		75		60		-		60		50		60	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 21.4 %

Table No.3 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE															
		BHUB	R	GOSS	R	ZN 3 MEAN	R	ARBH	R	KARI	R	KOLH	R	MAND	R	COIM	R
1	CMH08-239	5948	23	7048	16	7615	22	7429	22	11546	10	6206	20	8382	14	12819	5
2	CMH08-259	6097	17	7293	15	7963	13	8437	12	8670	29	5892	26	8114	15	12672	6
3	CMH08-282	5864	25	8177	9	7404	25	8751	9	12860	3	6435	18	6990	22	13133	3
4	CMH08-287	6284	10	6872	18	7708	19	10189	3	10258	22	8710	5	8543	12	13455	2
5	NMH-731	6510	5	6552	21	8371	9	10123	4	11480	11	7041	15	9786	3	12178	8
6	NMH-713	6042	20	10105	2	8518	6	8096	16	12590	4	8272	7	7967	16	11560	10
7	NMH-920	5718	27	8705	5	7719	18	7530	20	9017	28	5933	23	9266	4	12036	9
8	NMH-666	5181	29	8158	10	7273	28	6631	27	11415	12	7949	8	10101	1	10517	19
9	Bisco New 704	6519	4	7949	12	8309	11	6920	25	8498	30	7001	16	7497	18	12925	4
10	Bisco x -5129	6687	2	8558	6	8554	5	8093	17	13620	2	7066	14	8714	8	11227	14
11	Bisco x -9	6236	12	3836	30	8166	12	8753	8	9637	26	8590	6	9851	2	10486	20
12	HKH 402	6218	13	6550	22	7611	23	6357	29	9375	27	4573	30	8741	6	8200	29
13	HKH 408	6135	16	4684	28	7378	26	7386	23	12405	5	5404	28	6927	23	9102	24
14	KH-274	6303	9	4644	29	7888	14	7312	24	10177	23	6059	22	6798	24	8863	27
15	KMH-2689	5879	24	8313	7	7566	24	8769	7	10022	24	7794	11	7353	20	11267	12
16	KMH-2700(25K45)	6171	15	8122	11	8458	7	8579	10	10450	20	9027	2	8620	10	12405	7
17	NK 6607	6337	8	7930	13	8808	2	8010	18	10672	18	7677	12	8740	7	10876	17
18	S 7700	6049	19	6527	23	8626	4	8331	14	11276	13	8825	4	6325	28	11539	11
19	S 7720	6384	7	9893	3	8673	3	9327	5	12119	7	9022	3	5852	29	13872	1
20	RJ-2020	5985	22	7741	14	7248	29	5346	30	10828	17	5828	27	7436	19	11014	16

Table No.3 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE													
		BHUB	R	GOSS	R	ZN 3 MEAN	R	ARBH	R	KARI	R	KOLH	R	MAND	R	COIM	R
21	RJMH-2 By 1	6489	6	8219	8	8438	8	6481	28	11226	15	6144	21	6739	25	11231	13
22	A 7503	6197	14	10733	1	7835	15	8504	11	12339	6	9053	1	7802	17	10120	21
23	PRO 380	5615	28	9423	4	7806	17	11759	1	10405	21	7798	10	8556	11	9809	23
24	DHM 117	6545	3	7034	17	7663	21	7850	19	9935	25	5908	25	6536	27	8390	28
25	NMH-1242	6763	1	4946	27	9247	1	8349	13	13936	1	7860	9	5246	30	11095	15
26	BIO 151	6072	18	6638	20	7823	16	10549	2	10872	16	7637	13	8459	13	10604	18
	CHECKS																
27	BIO 9637	5738	26	5766	25	6838	30	7440	21	11228	14	5147	29	6730	26	7937	30
28	SEED TECH 2324	5999	21	6167	24	8343	10	9178	6	11678	9	6850	17	8879	5	9989	22
29	BULAND	6261	11	5032	26	7328	27	6646	26	10613	19	6300	19	8668	9	9055	25
30	BIO 9681	4934	30	6865	19	7686	20	8101	15	11741	8	5931	24	6995	21	8930	26
	Location Mean	6105		7283		7962		8174		11030		7064		7887		10910	
	Mean Stand	64		76		67		60		63		67		68		63	
	C.D. (5%)	480		2553		1284		2206		1003		2161		664		809	
	C.V. (%)	4.81		21.44		-		16.51		5.56		18.71		5.15		4.53	
	F (Prob)	0		0				0		0		0		0		0	
	Plot Size	10.2		9.6		-		12		9.6		12		11.2		9.6	
	AGRONOMY DATA																
	Sowing Date	5-12		25-11		-		22-11		25-11		17-12		7-12		5-01	
	Harvest Date	15-04		4-06		-		27-04		28-03		17-05		3-05		4-05	
	Irrigation Nos	12		3		-		8		-		-		12		10	
	Ferilizer Appli	120		80		-		150		-		120		150		150	
	Ferilizer Appli	60		40		-		75		-		60		75		75	
	Ferilizer Appli	60		40		-		37.5		-		40		40		75	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 21.4 %

Table No.3 (Cont..)

Sl No	PEDIGREE	VAGA	R	ZN 4 MEAN	R	BANS	R	GODH	R	ZN 5 MEAN	R	OV'L MEAN	R
1	CMH08-239	7858	13	9040	12	8634	16	4000	13	6317	13	8139	15
2	CMH08-259	7238	21	8504	19	6947	26	2183	29	4565	29	7135	28
3	CMH08-282	9353	2	9587	5	7462	23	3049	24	5255	25	8243	13
4	CMH08-287	6920	25	9679	2	4486	30	7699	1	6092	18	8260	12
5	NMH-731	7270	19	9646	4	9893	5	5070	10	7482	6	8685	5
6	NMH-713	8407	6	9482	7	8645	14	3123	21	5884	21	8383	10
7	NMH-920	6898	26	8447	20	6547	27	2984	26	4766	27	7371	25
8	NMH-666	7253	20	8978	16	8666	13	5230	8	6948	10	8319	11
9	Bisco New 704	7185	22	8338	21	10733	1	3095	22	6914	11	7991	19
10	Bisco x -5129	8081	11	9467	8	8618	18	5942	7	7280	7	8552	7
11	Bisco x -9	8117	10	9239	9	10256	3	3814	15	7035	9	8459	9
12	HKH 402	7425	16	7445	29	5250	29	2798	27	4024	30	7123	29
13	HKH 408	8202	8	8238	24	7473	22	4299	11	5886	20	7315	26
14	KH-274	7135	23	7724	27	8619	17	3826	14	6223	15	7389	24
15	KMH-2689	7724	14	8821	18	7312	24	3271	20	5291	23	7681	21
16	KMH-2700(25K45)	8973	3	9676	3	8968	11	3655	18	6312	14	8902	2
17	NK 6607	8196	9	9029	13	9049	10	6913	2	7981	3	8754	3
18	S 7700	8214	7	9085	11	9119	9	6193	5	7656	5	8536	8
19	S 7720	9512	1	9951	1	10451	2	6755	3	8603	1	9239	1
20	RJ-2020	7383	17	7972	26	9442	7	3699	17	6571	12	7595	22

Table No.3 (Cont..)

Sl No	PEDIGREE	VAGA	R	ZN 4 MEAN	R	BANS	R	GODH	R	ZN 5 MEAN	R	OV'L MEAN	R
21	RJMH-2 By 1	7351	18	8195	25	8489	19	3731	16	6110	17	8084	17
22	A 7503	7017	24	9139	10	8378	20	3010	25	5694	22	8056	18
23	PRO 380	8593	4	9487	6	9520	6	5987	6	7753	4	8558	6
24	DHM 117	6508	28	7521	28	6532	28	2644	28	4588	28	7305	27
25	NMH-1242	7576	15	9010	14	10195	4	6727	4	8461	2	8722	4
26	BIO 151	5898	29	9003	15	9372	8	5079	9	7226	8	8129	16
	CHECKS												
27	BIO 9637	5169	30	7275	30	7969	21	4205	12	6087	19	7073	30
28	SEED TECH 2324	6717	27	8882	17	8815	12	3570	19	6192	16	8218	14
29	BULAND	8519	5	8300	22	8637	15	1905	30	5271	24	7783	20
30	BIO 9681	7949	12	8274	23	7248	25	3065	23	5157	26	7446	23
	Location Mean	7621		8781		8391		4251		6321		8048	
	Mean Stand	52		62		55		42		48		63	
	C.D. (5%)	1142		1331		1560		665		1112		1299	
	C.V. (%)	9.16		-		11.37		9.57		-		-	
	F (Prob)	0				0		0					
	Plot Size	9.6		-		9.6		9.6		-		-	
	AGRONOMY DATA												
	Sowing Date	28-12		-		5-12		26-11		-		-	
	Harvest Date	3-05		-		11-05		26-04		-		-	
	Irrigation Nos	11		-		6		9		-		-	
	Ferilizer Appli	200		-		150		150		-		-	
	Ferilizer Appli	75		-		80		60		-		-	
	Ferilizer Appli	75		-		-		-		-		-	

TABLE No.3 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE BIO 9637

Sl No	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 MEAN
1	CMH08-239	48.4	25.3	-	3.9	8.5	10.7	-	19.9	22.3	3.7	22.2	11.4
2	CMH08-259	3.7	-	1.2	-	-	-	4	27	27.4	6.3	26.5	16.4
3	CMH08-282	65.2	58.4	-	11	-	14.6	14	10.7	5.8	2.2	41.8	8.3
4	CMH08-287	40.8	41.6	-	-	-	6.1	2.9	27.4	14	9.5	19.2	12.7
5	NMH-731	44.9	20.3	6.3	28.2	-	11.5	5.6	15.4	47.4	13.5	13.6	22.4
6	NMH-713	-	16.5	25.8	-	-	7.4	13.1	20.5	49.9	5.3	75.3	24.6
7	NMH-920	-	-	-	-	0	-	16.1	19.7	14.5	-	51	12.9
8	NMH-666	86.5	46.8	15.5	15.3	-	20.3	-	18.9	40.4	-	41.5	6.4
9	Bisco New 704	17.1	-	7	23.9	-	4.6	26.4	24.4	20.7	13.6	37.9	21.5
10	Bisco x -5129	31.6	16.9	4.8	2.1	-	7.4	16.4	25.1	38.3	16.6	48.4	25.1
11	Bisco x -9	46.6	33.5	14.8	-	-	12.3	4.5	21.2	38.4	8.7	-	19.4
12	HKH 402	1.2	32.6	2.2	-	-	2.4	5.4	17.2	14.6	8.4	13.6	11.3
13	HKH 408	-	2.9	-	-	-	-	-	3.1	19.8	6.9	-	7.9
14	KH-274	-	7.2	-	-	-	-	16.6	14.9	18.2	9.9	-	15.3
15	KMH-2689	-	31.1	-	-	-	-	1.2	17.2	20.2	2.5	44.2	10.6
16	KMH-2700(25K45)	60.9	72	27.9	21	-	26.4	12.2	37.3	35.8	7.5	40.9	23.7
17	NK 6607	9.7	115.7	1.8	5.2	-	17.2	26.1	27	44.5	10.5	37.5	28.8
18	S 7700	26.2	5.9	8.4	22.3	1.7	10.1	21.9	20.4	47.3	5.4	13.2	26.1
19	S 7720	40.2	91.4	4.3	26.5	3.2	22.7	26.7	31.4	34.4	11.3	71.6	26.8
20	RJ-2020	1.4	37.7	3.8	11.7	-	5.6	-	20.7	47.2	4.3	34.3	6
21	RJMH-2 By 1	63.8	54.3	-	-	2.8	14.1	7.3	24.2	43.8	13.1	42.5	23.4
22	A 7503	56.4	0.5	-	14.9	3.1	6.3	12.5	24.2	14.7	8	86.1	14.6
23	PRO 380	35.2	45.6	6.9	10.4	-	12.9	3.6	17.7	31.9	-	63.4	14.1
24	DHM 117	18.3	20.8	-	10.9	-	5.8	-	21.5	17	14.1	22	12.1
25	NMH-1242	-	53.5	4.1	19	0.5	8.7	25.1	15.6	67.9	17.9	-	35.2
26	BIO 151	-	8.8	8.8	3.8	0.1	3.7	2.7	28.9	21.2	5.8	15.1	14.4
	CHECKS												
27	BIO 9637	-	-	-	-	-	-	-	-	-	-	-	-
28	SEED TECH 2324	16.8	15.7	8.1	18.4	2.1	9.7	2.4	28.4	46.7	4.6	7	22
29	BULAND	60.7	101.9	-	-	-	15.1	-	-	18.4	9.1	-	7.2
30	BIO 9681	-	18.7	-	-	-	-	21.6	20.8	16.6	-	19.1	12.4

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 21.4 %

TABLE No.3 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9637										
		ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	CMH08-239	-	2.8	20.6	24.6	61.5	52	24.3	8.3	-	3.8	15.1
2	CMH08-259	13.4	-	14.5	20.6	59.7	40	16.9	-	-	-	0.9
3	CMH08-282	17.6	14.5	25	3.9	65.5	80.9	31.8	-	-	-	16.5
4	CMH08-287	37	-	69.2	26.9	69.5	33.9	33	-	83.1	0.1	16.8
5	NMH-731	36.1	2.2	36.8	45.4	53.4	40.6	32.6	24.1	20.6	22.9	22.8
6	NMH-713	8.8	12.1	60.7	18.4	45.7	62.6	30.3	8.5	-	-	18.5
7	NMH-920	1.2	-	15.3	37.7	51.7	33.4	16.1	-	-	-	4.2
8	NMH-666	-	1.7	54.4	50.1	32.5	40.3	23.4	8.7	24.4	14.1	17.6
9	Bisco New 704	-	-	36	11.4	62.8	39	14.6	34.7	-	13.6	13
10	Bisco x -5129	8.8	21.3	37.3	29.5	41.5	56.3	30.1	8.1	41.3	19.6	20.9
11	Bisco x -9	17.6	-	66.9	46.4	32.1	57	27	28.7	-	15.6	19.6
12	HKH 402	-	-	-	29.9	3.3	43.6	2.3	-	-	-	0.7
13	HKH 408	-	10.5	5	2.9	14.7	58.7	13.2	-	2.2	-	3.4
14	KH-274	-	-	17.7	1	11.7	38	6.2	8.2	-	2.2	4.5
15	KMH-2689	17.9	-	51.4	9.3	42	49.4	21.3	-	-	-	8.6
16	KMH-2700(25K45)	15.3	-	75.4	28.1	56.3	73.6	33	12.5	-	3.7	25.9
17	NK 6607	7.7	-	49.1	29.9	37	58.6	24.1	13.5	64.4	31.1	23.8
18	S 7700	12	0.4	71.4	-	45.4	58.9	24.9	14.4	47.3	25.8	20.7
19	S 7720	25.4	7.9	75.3	-	74.8	84	36.8	31.1	60.6	41.3	30.6
20	RJ-2020	-	-	13.2	10.5	38.8	42.8	9.6	18.5	-	7.9	7.4
21	RJMH-2 By 1	-	-	19.4	0.1	41.5	42.2	12.7	6.5	-	0.4	14.3
22	A 7503	14.3	9.9	75.9	15.9	27.5	35.8	25.6	5.1	-	-	13.9
23	PRO 380	58.1	-	51.5	27.1	23.6	66.3	30.4	19.5	42.4	27.4	21
24	DHM 117	5.5	-	14.8	-	5.7	25.9	3.4	-	-	-	3.3
25	NMH-1242	12.2	24.1	52.7	-	39.8	46.6	23.8	27.9	60	39	23.3
26	BIO 151	41.8	-	48.4	25.7	33.6	14.1	23.8	17.6	20.8	18.7	14.9
	CHECKS											
27	BIO 9637	-	-	-	-	-	-	-	-	-	-	-
28	SEED TECH 2324	23.4	4	33.1	31.9	25.9	29.9	22.1	10.6	-	1.7	16.2
29	BULAND	-	-	22.4	28.8	14.1	64.8	14.1	8.4	-	-	10
30	BIO 9681	8.9	4.6	15.2	3.9	12.5	53.8	13.7	-	-	-	5.3

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 21.4 %

TABLE No.3 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE SEED TECH 2324

Sl No	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 MEAN
1	CMH08-239	27.1	8.4	-	-	6.2	0.9	-	-	-	-	14.3	-
2	CMH08-259	-	-	-	-	-	-	1.6	-	-	1.6	18.3	-
3	CMH08-282	41.4	37	-	-	-	4.5	11.4	-	-	-	32.6	-
4	CMH08-287	20.5	22.4	-	-	-	-	0.6	-	-	4.7	11.4	-
5	NMH-731	24.1	4	-	8.2	-	1.6	3.2	-	0.5	8.5	6.2	0.3
6	NMH-713	-	0.7	16.4	-	-	-	10.5	-	2.2	0.7	63.8	2.1
7	NMH-920	-	-	-	-	-	-	13.5	-	-	-	41.1	-
8	NMH-666	59.7	26.9	6.9	-	-	9.6	-	-	-	-	32.3	-
9	Bisco New 704	0.3	-	-	4.7	-	-	23.5	-	-	8.7	28.9	-
10	Bisco x -5129	12.7	1	-	-	-	-	13.7	-	-	11.5	38.8	2.5
11	Bisco x -9	25.5	15.5	6.2	-	-	2.4	2.1	-	-	4	-	-
12	HKH 402	-	14.7	-	-	-	-	2.9	-	-	3.6	6.2	-
13	HKH 408	-	-	-	-	-	-	-	-	-	2.3	-	-
14	KH-274	-	-	-	-	-	-	13.9	-	-	5.1	-	-
15	KMH-2689	-	13.4	-	-	-	-	-	-	-	-	34.8	-
16	KMH-2700(25K45)	37.8	48.7	18.3	2.2	-	15.2	9.6	6.9	-	2.9	31.7	1.4
17	NK 6607	-	86.5	-	-	-	6.9	23.2	-	-	5.6	28.6	5.6
18	S 7700	8.1	-	0.3	3.3	-	0.3	19.1	-	0.4	0.8	5.8	3.4
19	S 7720	20.1	65.5	-	6.8	1	11.8	23.8	2.3	-	6.4	60.4	3.9
20	RJ-2020	-	19.1	-	-	-	-	-	-	0.4	-	25.5	-
21	RJMH-2 By 1	40.3	33.4	-	-	0.7	4	4.8	-	-	8.2	33.3	1.1
22	A 7503	33.9	-	-	-	1	-	9.9	-	-	3.3	74	-
23	PRO 380	15.8	25.9	-	-	-	2.9	1.2	-	-	-	52.8	-
24	DHM 117	1.3	4.5	-	-	-	-	-	-	-	9.1	14.1	-
25	NMH-1242	-	32.7	-	0.5	-	-	22.3	-	14.5	12.7	-	10.8
26	BIO 151	-	-	0.7	-	-	-	0.3	0.4	-	1.2	7.6	-
	CHECKS												
27	BIO 9637	-	-	-	-	-	-	-	-	-	-	-	-
28	SEED TECH 2324	-	-	-	-	-	-	-	-	-	-	-	-
29	BULAND	37.6	74.5	-	-	-	4.9	-	-	-	4.4	-	-
30	BIO 9681	-	2.6	-	-	-	-	18.8	-	-	-	11.3	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 21.4 %

TABLE No.3 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE SEED TECH 2324										
		ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	CMH08-239	-	-	-	-	28.3	17	1.8	-	12	2	-
2	CMH08-259	-	-	-	-	26.9	7.8	-	-	-	-	-
3	CMH08-282	-	10.1	-	-	31.5	39.2	7.9	-	-	-	0.3
4	CMH08-287	11	-	27.2	-	34.7	3	9	-	115.7	-	0.5
5	NMH-731	10.3	-	2.8	10.2	21.9	8.2	8.6	12.2	42	20.8	5.7
6	NMH-713	-	7.8	20.8	-	15.7	25.2	6.8	-	-	-	2
7	NMH-920	-	-	-	4.4	20.5	2.7	-	-	-	-	-
8	NMH-666	-	-	16	13.8	5.3	8	1.1	-	46.5	12.2	1.2
9	Bisco New 704	-	-	2.2	-	29.4	7	-	21.8	-	11.7	-
10	Bisco x -5129	-	16.6	3.2	-	12.4	20.3	6.6	-	66.4	17.6	4.1
11	Bisco x -9	-	-	25.4	10.9	5	20.8	4	16.4	6.8	13.6	2.9
12	HKH 402	-	-	-	-	-	10.5	-	-	-	-	-
13	HKH 408	-	6.2	-	-	-	22.1	-	-	20.4	-	-
14	KH-274	-	-	-	-	-	6.2	-	-	7.2	0.5	-
15	KMH-2689	-	-	13.8	-	12.8	15	-	-	-	-	-
16	KMH-2700(25K45)	-	-	31.8	-	24.2	33.6	8.9	1.7	2.4	1.9	8.3
17	NK 6607	-	-	12.1	-	8.9	22	1.7	2.7	93.6	28.9	6.5
18	S 7700	-	-	28.8	-	15.5	22.3	2.3	3.5	73.5	23.6	3.9
19	S 7720	1.6	3.8	31.7	-	38.9	41.6	12	18.6	89.2	38.9	12.4
20	RJ-2020	-	-	-	-	10.3	9.9	-	7.1	3.6	6.1	-
21	RJMH-2 By 1	-	-	-	-	12.4	9.4	-	-	4.5	-	-
22	A 7503	-	5.7	32.2	-	1.3	4.5	2.9	-	-	-	-
23	PRO 380	28.1	-	13.8	-	-	27.9	6.8	8	67.7	25.2	4.1
24	DHM 117	-	-	-	-	-	-	-	-	-	-	-
25	NMH-1242	-	19.3	14.8	-	11.1	12.8	1.4	15.7	88.4	36.6	6.1
26	BIO 151	14.9	-	11.5	-	6.2	-	1.4	6.3	42.3	16.7	-
	CHECKS											
27	BIO 9637	-	-	-	-	-	-	-	-	17.8	-	-
28	SEED TECH 2324	-	-	-	-	-	-	-	-	-	-	-
29	BULAND	-	-	-	-	-	26.8	-	-	-	-	-
30	BIO 9681	-	0.5	-	-	-	18.3	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 21.4 %

TABLE No.3 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE BULAND

Sl No	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 MEAN
1	CMH08-239	-	-	-	19	15.9	-	0.3	20.3	3.3	-	40	3.9
2	CMH08-259	-	-	5.4	6.9	-	-	5.9	27.4	7.6	-	44.9	8.7
3	CMH08-282	2.8	-	3	27.1	1	-	16.1	11	-	-	62.5	1
4	CMH08-287	-	-	-	5.4	3.3	-	4.8	27.8	-	0.4	36.6	5.2
5	NMH-731	-	-	10.7	46.8	-	-	7.6	15.8	24.5	4	30.2	14.2
6	NMH-713	-	-	31	13.8	2.4	-	15.2	20.8	26.7	-	100.8	16.2
7	NMH-920	-	-	-	-	6.9	-	18.3	20.1	-	-	73	5.3
8	NMH-666	16.1	-	20.3	32.1	-	4.5	-	19.3	18.6	-	62.1	-
9	Bisco New 704	-	-	11.4	42	4.9	-	28.7	24.8	2	4.1	58	13.4
10	Bisco x -5129	-	-	9.1	17	6.5	-	18.5	25.5	16.9	6.8	70	16.7
11	Bisco x -9	-	-	19.6	4.2	5.9	-	6.4	21.5	16.9	-	-	11.4
12	HKH 402	-	-	6.5	-	4.9	-	7.3	17.6	-	-	30.2	3.9
13	HKH 408	-	-	-	1.5	5	-	0.2	3.5	1.2	-	-	0.7
14	KH-274	-	-	-	8.8	4.1	-	18.8	15.2	-	0.7	-	7.6
15	KMH-2689	-	-	0	-	6.8	-	3.1	17.6	1.5	-	65.2	3.3
16	KMH-2700(25K45)	0.2	-	33.2	38.6	3.1	9.8	14.2	37.7	14.7	-	61.4	15.4
17	NK 6607	-	6.9	6	20.5	6.3	1.9	28.4	27.4	22	1.2	57.6	20.2
18	S 7700	-	-	12.9	40.1	8.7	-	24.1	20.8	24.4	-	29.7	17.7
19	S 7720	-	-	8.7	44.8	10.3	6.6	29	31.8	13.5	2	96.6	18.3
20	RJ-2020	-	-	8.1	27.9	-	-	-	21.1	24.4	-	53.8	-
21	RJMH-2 By 1	2	-	3	8.1	9.9	-	9.3	24.6	21.4	3.6	63.3	15.2
22	A 7503	-	-	-	31.6	10.2	-	14.6	24.6	-	-	113.3	6.9
23	PRO 380	-	-	11.3	26.5	4.8	-	5.5	18.1	11.4	-	87.2	6.5
24	DHM 117	-	-	3.9	27	5.1	-	-	21.9	-	4.5	39.8	4.6
25	NMH-1242	-	-	8.4	36.3	7.4	-	27.5	16	41.8	8	-	26.2
26	BIO 151	-	-	13.3	18.9	7	-	4.6	29.2	2.4	-	31.9	6.8
	CHECKS												
27	BIO 9637	-	-	4.1	14.5	6.9	-	1.8	0.3	-	-	14.6	-
28	SEED TECH 2324	-	-	12.5	35.6	9.2	-	4.2	28.8	23.9	-	22.5	13.9
29	BULAND	-	-	-	-	-	-	-	-	-	-	-	-
30	BIO 9681	-	-	-	6.1	3.7	-	23.9	21.2	-	-	36.4	4.9

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 21.4 %

TABLE No.3 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BULAND										
		ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	CMH08-239	11.8	8.8	-	-	41.6	-	8.9	-	110	19.8	4.6
2	CMH08-259	26.9	-	-	-	39.9	-	2.5	-	14.6	-	-
3	CMH08-282	31.7	21.2	2.2	-	45	9.8	15.5	-	60.1	-	5.9
4	CMH08-287	53.3	-	38.3	-	48.6	-	16.6	-	304.2	15.6	6.1
5	NMH-731	52.3	8.2	11.8	12.9	34.5	-	16.2	14.5	166.2	41.9	11.6
6	NMH-713	21.8	18.6	31.3	-	27.7	-	14.2	0.1	64	11.6	7.7
7	NMH-920	13.3	-	-	6.9	32.9	-	1.8	-	56.7	-	-
8	NMH-666	-	7.6	26.2	16.5	16.1	-	8.2	0.3	174.6	31.8	6.9
9	Bisco New 704	4.1	-	11.1	-	42.7	-	0.5	24.3	62.5	31.2	2.7
10	Bisco x -5129	21.8	28.3	12.2	0.5	24	-	14.1	-	212	38.1	9.9
11	Bisco x -9	31.7	-	36.4	13.6	15.8	-	11.3	18.7	100.2	33.5	8.7
12	HKH 402	-	-	-	0.8	-	-	-	-	46.9	-	-
13	HKH 408	11.1	16.9	-	-	0.5	-	-	-	125.7	11.7	-
14	KH-274	10	-	-	-	-	-	-	-	100.9	18.1	-
15	KMH-2689	31.9	-	23.7	-	24.4	-	6.3	-	71.7	0.4	-
16	KMH-2700(25K45)	29.1	-	43.3	-	37	5.3	16.6	3.8	91.9	19.8	14.4
17	NK 6607	20.5	0.6	21.9	0.8	20.1	-	8.8	4.8	262.9	51.4	12.5
18	S 7700	25.3	6.3	40.1	-	27.4	-	9.5	5.6	225.1	45.3	9.7
19	S 7720	40.3	14.2	43.2	-	53.2	11.7	19.9	21	254.7	63.2	18.7
20	RJ-2020	-	2	-	-	21.6	-	-	9.3	94.2	24.7	-
21	RJMH-2 By 1	-	5.8	-	-	24	-	-	-	95.9	15.9	3.9
22	A 7503	28	16.3	43.7	-	11.8	-	10.1	-	58.1	8	3.5
23	PRO 380	76.9	-	23.8	-	8.3	0.9	14.3	10.2	214.3	47.1	10
24	DHM 117	18.1	-	-	-	-	-	-	-	38.8	-	-
25	NMH-1242	25.6	31.3	24.8	-	22.5	-	8.6	18	253.2	60.5	12.1
26	BIO 151	58.7	2.4	21.2	-	17.1	-	8.5	8.5	166.7	37.1	4.4
	CHECKS											
27	BIO 9637	11.9	5.8	-	-	-	-	-	-	120.8	15.5	-
28	SEED TECH 2324	38.1	10	8.7	2.4	10.3	-	7	2.1	87.4	17.5	5.6
29	BULAND	-	-	-	-	-	-	-	-	-	-	-
30	BIO 9681	21.9	10.6	-	-	-	-	-	-	60.9	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 21.4 %

Table No.3 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE BIO 9681

Sl No	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 MEAN
1	CMH08-239	61.5	5.6	4.7	12.2	11.7	14.4	-	-	4.9	20.5	2.7	-
2	CMH08-259	12.8	-	11.5	0.7	-	-	-	5.2	9.3	23.6	6.2	3.6
3	CMH08-282	79.7	33.4	8.9	19.8	-	18.4	-	-	-	18.8	19.1	-
4	CMH08-287	53.2	19.3	3.6	-	-	9.6	-	5.5	-	27.3	0.1	0.3
5	NMH-731	57.7	1.3	17.1	38.4	-	15.2	-	-	26.4	31.9	-	8.9
6	NMH-713	1.8	-	38.5	7.3	-	10.9	-	-	28.6	22.5	47.2	10.8
7	NMH-920	2.3	-	-	-	3.1	-	-	-	-	15.9	26.8	0.4
8	NMH-666	102.9	23.7	27.3	24.5	-	24.3	-	-	20.5	5	18.8	-
9	Bisco New 704	27.4	-	17.8	33.8	1.2	8	3.9	3	3.5	32.1	15.8	8.1
10	Bisco x -5129	43.2	-	15.4	10.3	2.7	10.9	-	3.6	18.7	35.5	24.7	11.3
11	Bisco x -9	59.5	12.5	26.5	-	2.1	16	-	0.3	18.7	26.4	-	6.2
12	HKH 402	10.1	11.7	12.6	-	1.1	5.7	-	-	-	26	-	-
13	HKH 408	0.9	-	-	-	1.2	-	-	-	2.8	24.3	-	-
14	KH-274	-	-	-	2.6	0.4	-	-	-	1.4	27.7	-	2.6
15	KMH-2689	-	10.5	5.8	-	3	2.6	-	-	3.1	19.1	21.1	-
16	KMH-2700(25K45)	75.1	44.9	40.9	30.6	-	30.5	-	13.6	16.5	25.1	18.3	10
17	NK 6607	19.4	81.7	12.2	13.6	2.5	21.1	3.7	5.2	23.9	28.4	15.5	14.6
18	S 7700	37.3	-	19.4	32.1	4.8	13.7	0.2	-	26.3	22.6	-	12.2
19	S 7720	52.6	61.2	15	36.5	6.3	26.7	4.2	8.8	15.3	29.4	44.1	12.8
20	RJ-2020	10.4	16	14.3	20.5	-	9.1	-	-	26.3	21.3	12.8	-
21	RJMH-2 By 1	78.2	30	8.9	1.9	5.9	17.9	-	2.8	23.3	31.5	19.7	9.8
22	A 7503	70.2	-	-	24	6.3	9.8	-	2.8	-	25.6	56.3	1.9
23	PRO 380	47.1	22.7	17.7	19.2	1.1	16.6	-	-	13.2	13.8	37.3	1.6
24	DHM 117	28.7	1.8	10	19.7	1.3	9.3	-	0.6	0.4	32.6	2.5	-
25	NMH-1242	-	29.3	14.7	28.5	3.6	12.3	2.9	-	44	37.1	-	20.3
26	BIO 151	3.1	-	19.9	12.1	3.2	7.1	-	6.7	3.9	23.1	-	1.8
	CHECKS												
27	BIO 9637	8.8	-	10.2	8	3	3.3	-	-	-	16.3	-	-
28	SEED TECH 2324	27.1	-	19.1	27.8	5.2	13.3	-	6.3	25.8	21.6	-	8.6
29	BULAND	74.8	70	5.8	-	-	18.9	-	-	1.5	26.9	-	-
30	BIO 9681	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 21.4 %

Table No.3 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9681 ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	CMH08-239	-	-	4.6	19.8	43.6	-	9.3	19.1	30.5	22.5	9.3
2	CMH08-259	4.2	-	-	16	41.9	-	2.8	-	-	-	-
3	CMH08-282	8	9.5	8.5	-	47.1	17.7	15.9	2.9	-	1.9	10.7
4	CMH08-287	25.8	-	46.9	22.1	50.7	-	17	-	151.2	18.1	10.9
5	NMH-731	25	-	18.7	39.9	36.4	-	16.6	36.5	65.4	45.1	16.6
6	NMH-713	-	7.2	39.5	13.9	29.5	5.8	14.6	19.3	1.9	14.1	12.6
7	NMH-920	-	-	0	32.5	34.8	-	2.1	-	-	-	-
8	NMH-666	-	-	34	44.4	17.8	-	8.5	19.6	70.6	34.7	11.7
9	Bisco New 704	-	-	18	7.2	44.7	-	0.8	48.1	1	34.1	7.3
10	Bisco x -5129	-	16	19.1	24.6	25.7	1.7	14.4	18.9	93.9	41.2	14.9
11	Bisco x -9	8	-	44.8	40.8	17.4	2.1	11.7	41.5	24.4	36.4	13.6
12	HKH 402	-	-	-	25	-	-	-	-	-	-	-
13	HKH 408	-	5.7	-	-	1.9	3.2	-	3.1	40.3	14.1	-
14	KH-274	-	-	2.2	-	-	-	-	18.9	24.8	20.7	-
15	KMH-2689	8.2	-	31.4	5.1	26.2	-	6.6	0.9	6.7	2.6	3.2
16	KMH-2700(25K45)	5.9	-	52.2	23.2	38.9	12.9	16.9	23.7	19.3	22.4	19.6
17	NK 6607	-	-	29.4	24.9	21.8	3.1	9.1	24.8	125.5	54.8	17.6
18	S 7700	2.8	-	48.8	-	29.2	3.3	9.8	25.8	102	48.5	14.6
19	S 7720	15.1	3.2	52.1	-	55.3	19.7	20.3	44.2	120.4	66.8	24.1
20	RJ-2020	-	-	-	6.3	23.3	-	-	30.3	20.7	27.4	2
21	RJMH-2 By 1	-	-	3.6	-	25.8	-	-	17.1	21.7	18.5	8.6
22	A 7503	5	5.1	52.7	11.5	13.3	-	10.5	15.6	-	10.4	8.2
23	PRO 380	45.2	-	31.5	22.3	9.8	8.1	14.7	31.3	95.3	50.4	14.9
24	DHM 117	-	-	-	-	-	-	-	-	-	-	-
25	NMH-1242	3.1	18.7	32.5	-	24.2	-	8.9	40.7	119.5	64.1	17.1
26	BIO 151	30.2	-	28.8	20.9	18.7	-	8.8	29.3	65.7	40.1	9.2
	CHECKS											
27	BIO 9637	-	-	-	-	-	-	-	9.9	37.2	18	-
28	SEED TECH 2324	13.3	-	15.5	26.9	11.9	-	7.3	21.6	16.5	20.1	10.4
29	BULAND	-	-	6.2	23.9	1.4	7.2	0.3	19.2	-	2.2	4.5
30	BIO 9681	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GOSS 21.4 %

Table No.3 (Cont..)

MOISTURE % AT HARVEST

S.No.	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 Mean
1	CMH08-239	25.2	26.3	22.9	13.5	12.5	20.1	26.0	11.7	32.0	19.7	23.9	22.7
2	CMH08-259	26.3	22.9	23.7	13.7	13.7	20.0	26.2	14.4	31.6	19.0	23.3	22.9
3	CMH08-282	26.6	21.9	24.6	17.8	15.3	21.2	26.1	11.8	31.1	21.3	23.8	22.8
4	CMH08-287	28.0	22.9	24.7	20.2	17.3	22.6	27.0	15.1	29.1	19.7	21.8	22.5
5	NMH-731	25.6	28.7	25.0	13.7	17.3	22.0	26.9	11.8	32.5	18.5	23.8	22.7
6	NMH-713	27.8	28.7	23.4	14.9	13.7	21.7	28.5	12.0	31.5	19.3	21.5	22.6
7	NMH-920	25.8	23.8	25.1	19.7	12.7	21.4	26.7	14.8	30.7	21.4	22.5	23.2
8	NMH-666	26.8	25.5	19.8	12.6	14.3	19.8	28.4	13.7	31.5	19.6	23.6	23.4
9	Bisco New 704	27.6	26.1	24.6	20.2	15.0	22.7	27.9	12.4	33.7	17.6	23.0	22.9
10	Bisco x -5129	25.5	28.0	21.3	12.6	14.3	20.3	25.9	14.3	33.9	17.2	20.5	22.4
11	Bisco x -9	24.9	26.9	23.9	14.1	15.3	21.0	28.1	11.6	34.4	18.1	22.4	22.9
12	HKH 402	23.9	22.9	25.3	12.4	17.3	20.3	26.7	13.8	34.7	18.4	21.7	23.0
13	HKH 408	23.1	27.9	21.0	12.6	17.3	20.4	25.0	13.5	32.2	19.4	22.3	22.5
14	KH-274	21.9	23.7	23.5	15.0	16.3	20.1	26.9	11.7	34.1	20.1	23.2	23.2
15	KMH-2689	27.3	28.7	24.7	18.0	14.7	22.7	27.8	13.3	34.6	20.5	22.7	23.8
16	KMH-2700(25K45)	27.6	26.6	25.2	15.2	13.0	21.5	29.2	13.2	33.7	17.5	21.8	23.1
17	NK 6607	23.1	27.3	22.7	13.9	14.0	20.2	26.2	14.0	29.5	18.7	21.3	21.9
18	S 7700	23.2	24.6	24.6	13.8	15.0	20.2	26.0	12.6	32.3	22.2	21.9	23.0
19	S 7720	24.9	24.1	24.1	14.8	15.0	20.6	27.4	12.8	32.7	19.0	22.7	22.9
20	RJ-2020	26.4	24.1	21.9	14.9	18.0	21.0	28.3	11.6	32.4	20.8	23.2	23.2
21	RJMH-2 By 1	25.0	27.5	23.0	13.6	14.0	20.6	27.3	12.1	33.7	22.1	22.8	23.6
22	A 7503	26.3	25.6	24.1	19.5	16.0	22.3	26.1	13.1	34.4	21.8	23.4	23.7
23	PRO 380	25.2	28.6	24.9	19.0	13.0	22.1	26.9	14.2	33.5	21.8	23.5	24.0
24	DHM 117	28.0	25.0	24.7	15.4	14.0	21.4	26.4	11.7	32.3	-	23.4	23.4
25	NMH-1242	20.4	26.1	19.3	14.8	14.0	18.9	26.8	11.0	29.9	17.6	22.0	21.5
26	BIO 151	26.0	25.3	22.7	14.6	13.3	20.4	25.6	13.9	33.9	19.0	23.0	23.1
	CHECKS												
27	BIO 9637	21.8	25.5	21.5	12.0	15.0	19.1	26.1	14.0	32.0	19.6	23.1	22.9
28	SEED TECH 2324	27.8	27.8	20.2	14.6	16.0	21.3	26.1	12.1	31.6	19.2	22.7	22.3
29	BULAND	26.5	26.0	21.3	15.3	17.0	21.2	26.1	11.8	31.8	18.9	22.6	22.2
30	BIO 9681	25.6	25.4	21.6	13.3	15.0	20.2	26.0	11.3	32.0	17.6	23.8	22.1
	Loc. Mean	25.4	25.8	23.1	15.2	15.0	20.9	26.8	12.8	32.4	19.5	22.7	22.9
	C.D. (5%)	1.87	0.87	2.81	3.54	1.42	2.37	0.83	3.66	1.85	0.20	2.33	1.58
	C.V. (%)	4.51	2.06	7.41	14.28	5.79	9.05	1.89	17.42	3.50	0.62	6.29	5.51
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.73	0.00	0.00	0.43	0.48

Table No.3 (Cont..)

MOISTURE % AT HARVEST

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	CMH08-239	18.5	17.2	12.7	15.6	19.7	18.1	16.9	18.5	14.7	16.6	19.4
2	CMH08-259	18.0	17.0	13.3	15.7	24.3	18.4	17.8	18.1	14.1	16.1	19.6
3	CMH08-282	17.0	16.3	14.1	15.5	22.7	18.3	17.3	17.6	13.8	15.7	19.7
4	CMH08-287	20.1	14.9	14.5	17.5	25.9	20.1	18.8	18.4	12.3	15.3	20.5
5	NMH-731	16.8	16.9	13.0	15.8	21.7	21.3	17.6	18.5	12.0	15.2	20.0
6	NMH-713	17.9	15.6	14.1	15.9	23.8	21.2	18.1	20.4	11.4	15.9	20.1
7	NMH-920	19.3	16.3	15.6	16.5	25.5	20.0	18.9	17.6	14.0	15.8	20.4
8	NMH-666	17.6	16.3	13.0	14.9	22.4	17.9	17.0	18.9	13.3	16.1	19.4
9	Bisco New 704	17.7	15.6	14.5	18.4	25.1	20.1	18.6	17.7	12.5	15.1	20.5
10	Bisco x -5129	19.6	14.4	12.8	16.3	25.5	19.0	17.9	17.6	13.2	15.4	19.5
11	Bisco x -9	19.9	15.7	14.3	16.1	20.7	23.2	18.3	18.2	13.1	15.6	20.0
12	HKH 402	14.2	14.1	13.5	16.2	25.0	18.5	16.9	16.8	14.9	15.8	19.4
13	HKH 408	15.2	15.7	12.7	15.2	22.6	19.8	16.8	16.4	11.8	14.1	19.1
14	KH-274	14.4	16.6	13.3	16.6	25.6	18.2	17.4	16.7	11.3	14.0	19.4
15	KMH-2689	19.1	14.9	15.1	17.8	24.5	18.9	18.4	18.7	15.1	16.9	20.9
16	KMH-2700(25K45)	19.2	16.2	13.3	17.8	27.2	20.6	19.0	17.7	10.3	14.0	20.3
17	NK 6607	14.8	15.2	13.5	16.2	23.2	18.6	16.9	17.7	12.7	15.2	19.0
18	S 7700	14.0	14.6	14.3	16.6	25.6	20.1	17.5	17.3	11.3	14.3	19.4
19	S 7720	18.4	14.6	13.1	15.5	24.6	18.5	17.4	17.0	14.7	15.9	19.6
20	RJ-2020	12.9	14.8	12.8	14.9	23.6	20.9	16.6	19.2	12.6	15.9	19.6
21	RJMH-2 By 1	13.3	15.8	13.5	16.1	25.4	19.3	17.2	17.4	12.4	14.9	19.7
22	A 7503	15.2	13.9	13.9	17.4	27.8	18.0	17.7	18.1	13.6	15.8	20.4
23	PRO 380	19.3	17.2	14.8	16.9	24.0	20.2	18.7	18.2	13.3	15.7	20.8
24	DHM 117	17.1	14.6	14.2	16.2	24.0	19.2	17.5	17.2	11.5	14.3	19.7
25	NMH-1242	17.6	15.1	12.7	15.8	22.9	20.9	17.5	18.4	13.4	15.9	18.8
26	BIO 151	19.3	13.8	13.3	15.4	23.8	20.8	17.7	18.8	11.3	15.0	19.6
	CHECKS											
27	BIO 9637	16.1	17.4	13.0	16.1	22.8	18.5	17.3	18.0	13.0	15.5	19.2
28	SEED TECH 2324	17.3	15.3	14.5	16.4	26.1	21.3	18.5	18.0	12.2	15.1	19.9
29	BULAND	15.7	14.8	12.6	15.5	24.0	20.5	17.1	17.9	13.4	15.6	19.5
30	BIO 9681	12.9	15.2	13.0	15.6	21.5	20.1	16.4	18.1	10.8	14.5	18.8
	Loc. Mean	16.9	15.5	13.6	16.2	24.0	19.7	17.7	17.9	12.8	15.4	19.7
	C.D. (5%)	2.44-		0.64	0.56	3.72	1.73	1.56	0.70	1.99	2.19	0.95
	C.V. (%)	8.82-		2.89	2.11	9.46	5.39	7.72	2.40	9.53	6.97	7.35
	F (Prob)	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.00	0.00	0.56	0.00

Table No.3 (Cont..)

S.No.	PEDIGREE	GRAIN SHELLING % LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 Mean
1	CMH08-239	74.2	80.1	82.1	84.2	72.5	78.6	76.3	83.2	76.8	77.5	80.5	78.8
2	CMH08-259	69.2	82.9	83.0	79.4	73.7	77.6	74.0	85.2	76.0	78.0	78.6	78.3
3	CMH08-282	77.7	83.7	81.3	84.2	75.3	80.5	78.6	80.9	77.8	79.7	82.3	79.8
4	CMH08-287	76.2	84.4	87.5	80.6	75.0	80.7	76.4	83.2	77.8	80.9	78.8	79.4
5	NMH-731	84.8	81.4	84.0	86.2	74.3	82.1	78.9	82.3	77.0	82.5	82.0	80.5
6	NMH-713	72.7	83.2	87.5	85.6	73.7	80.5	74.4	82.0	72.3	80.8	83.7	78.6
7	NMH-920	78.2	81.9	80.9	85.6	74.0	80.1	74.5	83.9	76.3	81.7	73.5	78.0
8	NMH-666	84.6	86.5	90.5	84.8	75.0	84.3	44.7	86.1	76.0	78.1	82.0	73.4
9	Bisco New 704	79.3	77.3	88.0	83.8	77.0	81.1	76.3	84.3	78.0	82.9	77.7	79.8
10	Bisco x -5129	77.8	83.1	88.6	85.0	75.0	81.9	80.4	82.7	76.8	83.3	86.4	81.9
11	Bisco x -9	79.4	84.7	88.5	86.4	72.7	82.3	78.0	82.8	78.8	79.1	72.6	78.2
12	HKH 402	77.2	81.0	86.0	81.9	73.7	80.0	77.0	82.6	77.5	80.9	85.1	80.6
13	HKH 408	83.3	78.9	86.3	85.6	74.3	81.7	76.7	81.9	76.0	81.3	74.9	78.2
14	KH-274	66.6	79.6	86.6	85.7	74.7	78.6	80.3	86.1	75.8	78.9	79.2	80.0
15	KMH-2689	74.8	86.6	83.5	81.7	75.7	80.5	76.3	85.2	77.0	80.6	82.3	80.3
16	KMH-2700(25K45)	75.3	83.7	86.5	86.3	72.7	80.9	73.6	86.7	71.5	82.0	65.9	75.9
17	NK 6607	78.7	79.3	84.3	85.4	73.0	80.1	78.7	82.3	78.8	81.2	82.4	80.7
18	S 7700	81.6	77.9	86.0	86.7	72.7	81.0	77.4	85.4	79.3	81.8	80.2	80.8
19	S 7720	84.7	86.1	85.0	87.3	76.7	84.0	80.7	82.3	74.5	83.0	81.2	80.3
20	RJ-2020	75.0	79.1	89.7	84.0	74.3	80.4	44.9	84.8	78.5	79.1	82.7	74.0
21	RJMH-2 By 1	80.0	84.2	82.3	84.9	73.3	80.9	71.9	84.1	78.0	83.5	77.5	79.0
22	A 7503	82.0	79.2	85.9	86.4	73.7	81.4	79.6	83.6	79.3	82.1	85.4	82.0
23	PRO 380	70.5	80.1	82.9	85.2	74.3	78.6	74.5	84.5	80.8	78.6	81.8	80.0
24	DHM 117	64.8	78.0	83.2	80.6	75.7	76.4	72.6	82.8	79.5	-	77.3	78.0
25	NMH-1242	74.2	81.1	90.7	86.4	74.0	81.3	79.4	82.9	79.0	83.0	77.5	80.3
26	BIO 151	81.5	80.2	89.1	84.1	74.7	81.9	79.0	83.7	76.4	81.8	85.4	81.2
	CHECKS												
27	BIO 9637	74.2	79.9	86.7	86.2	74.3	80.2	79.2	81.9	76.8	82.0	81.1	80.2
28	SEED TECH 2324	79.1	81.5	85.7	86.0	73.7	81.2	76.3	84.6	79.0	80.1	81.8	80.4
29	BULAND	83.3	85.5	78.9	83.5	75.3	81.3	67.3	68.7	74.3	82.2	70.5	72.6
30	BIO 9681	75.7	77.6	88.9	87.3	74.0	80.7	79.1	84.0	75.0	83.5	86.8	81.7
	Loc. Mean	77.2	81.6	85.7	84.7	74.3	80.7	74.5	83.1	77.0	81.0	79.9	79.1
	C.D. (5%)	0.00	1.08	3.30	2.05	2.08	3.74	15.04	5.82	3.11	0.09	8.72	5.81
	C.V. (%)	0.00	0.81	2.36	1.48	1.72	3.70	12.35	4.28	2.47	0.07	6.68	5.86
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.16

Table No.3 (Cont..)

S.No.	PEDIGREE	GRAIN SHELLING % ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	CMH08-239	82.8	74.0	80.7	78.5	80.5	74.9	78.6	67.9	83.2	75.5	78.3
2	CMH08-259	80.4	74.0	75.7	81.3	77.7	75.8	77.5	69.3	77.6	73.4	77.3
3	CMH08-282	85.7	74.7	82.7	79.8	80.7	76.6	80.0	69.6	84.2	76.9	79.7
4	CMH08-287	85.2	71.3	79.9	80.4	81.8	75.8	79.1	40.4	85.7	63.1	77.8
5	NMH-731	86.5	75.7	85.1	82.8	79.5	78.4	81.3	68.0	89.0	78.5	81.0
6	NMH-713	83.5	75.0	85.1	79.6	77.4	80.1	80.1	69.5	78.6	74.1	79.1
7	NMH-920	80.5	67.7	78.8	82.8	78.9	69.8	76.4	70.7	83.5	77.1	77.9
8	NMH-666	81.4	81.3	81.7	82.0	79.7	74.2	80.0	70.4	87.9	79.1	79.3
9	Bisco New 704	81.8	72.3	82.0	82.6	78.3	73.0	78.3	68.7	86.3	77.5	79.4
10	Bisco x -5129	85.5	81.0	84.8	80.0	80.0	79.5	81.8	69.9	81.7	75.8	81.2
11	Bisco x -9	85.7	73.3	85.1	83.6	78.8	79.6	81.0	72.1	88.4	80.2	80.5
12	HKH 402	79.6	75.3	84.8	81.5	76.6	78.7	79.4	66.3	84.1	75.2	79.4
13	HKH 408	83.6	78.7	82.8	81.0	81.0	78.8	81.0	68.5	83.3	75.9	79.8
14	KH-274	84.7	79.7	84.7	79.9	79.3	75.1	80.6	70.4	85.4	77.9	79.6
15	KMH-2689	83.7	69.7	81.3	73.5	78.1	73.7	76.6	68.5	83.2	75.8	78.6
16	KMH-2700(25K45)	83.0	73.7	80.7	79.9	79.6	75.8	78.8	70.3	86.0	78.1	78.5
17	NK 6607	83.6	80.3	84.9	80.5	78.1	73.2	80.1	72.2	84.4	78.3	80.1
18	S 7700	83.4	73.0	83.9	80.1	78.1	76.7	79.2	68.6	87.3	77.9	80.0
19	S 7720	85.5	83.3	85.6	83.2	81.5	79.9	83.1	68.1	86.7	77.4	81.9
20	RJ-2020	82.3	80.3	81.8	82.0	78.0	73.4	79.6	69.6	84.5	77.0	78.0
21	RJMH-2 By 1	80.9	72.3	73.1	81.6	77.2	75.7	76.8	68.6	83.5	76.1	78.5
22	A 7503	84.0	73.7	85.6	80.6	81.7	78.0	80.6	69.5	87.2	78.4	81.0
23	PRO 380	82.8	75.0	82.6	80.5	78.8	79.1	79.8	69.3	80.8	75.0	79.0
24	DHM 117	81.1	65.3	74.2	81.1	77.3	75.4	75.7	67.9	79.1	73.5	76.2
25	NMH-1242	85.7	76.0	83.5	78.5	77.1	79.9	80.1	71.1	87.1	79.1	80.4
26	BIO 151	84.9	71.7	85.0	79.4	78.6	77.4	79.5	69.2	70.8	70.0	79.6
	CHECKS											
27	BIO 9637	83.0	84.0	83.3	84.6	75.6	79.3	81.6	69.3	86.0	77.7	80.4
28	SEED TECH 2324	84.4	75.3	73.3	82.9	77.8	73.3	77.8	69.8	82.5	76.1	79.3
29	BULAND	83.3	74.7	78.1	80.0	74.7	79.5	78.4	68.3	71.8	70.1	76.7
30	BIO 9681	85.4	84.3	80.7	81.8	78.5	77.7	81.4	67.4	87.6	77.5	80.8
	Loc. Mean	83.4	75.6	81.7	80.9	78.7	76.6	79.5	68.3	83.6	75.9	79.3
	C.D. (5%)	2.10	2.40	1.63	1.05	1.36	2.85	2.99	8.92	6.71	10.36	2.42
	C.V. (%)	1.54	1.95	1.22	0.79	1.06	2.28	3.29	7.99	4.91	6.67	4.66
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00

Table No.3 (Cont..)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 Mean
1	CMH08-239	79.5	59.2	56.7	48.6	78.1	68.4	64.6	66.7	78.8	63.1	75.3	69.7
2	CMH08-259	44.1	57.8	55.0	26.1	76.4	58.3	56.6	69.1	69.8	64.1	85.1	68.9
3	CMH08-282	80.2	59.2	55.8	40.6	77.8	68.2	57.3	72.6	77.8	63.7	76.7	69.6
4	CMH08-287	60.4	58.9	56.7	38.3	78.5	63.6	65.3	73.3	80.6	63.4	82.3	73.0
5	NMH-731	84.7	65.0	56.7	55.8	80.6	71.7	59.0	72.6	81.3	62.7	76.4	70.4
6	NMH-713	76.0	58.3	54.2	47.2	79.9	67.1	61.8	83.0	81.3	62.4	84.7	74.6
7	NMH-920	62.8	60.0	56.1	35.8	79.2	64.5	58.3	63.5	75.3	61.4	82.6	68.3
8	NMH-666	81.6	59.7	56.7	51.7	80.6	69.6	58.0	67.4	77.1	63.1	80.6	69.2
9	Bisco New 704	79.2	59.7	56.7	50.6	79.2	68.7	65.6	79.2	82.3	61.8	82.6	74.3
10	Bisco x -5129	84.0	60.8	56.1	61.7	80.6	70.4	58.0	75.0	83.0	61.8	80.9	71.7
11	Bisco x -9	78.1	60.0	56.7	52.8	80.6	68.8	62.8	75.7	78.5	61.8	79.9	71.7
12	HKH 402	51.7	60.3	53.9	31.4	77.8	60.9	58.7	64.9	73.3	62.4	77.1	67.3
13	HKH 408	65.3	60.3	55.3	38.9	78.5	64.8	55.6	64.6	74.7	63.4	73.3	66.3
14	KH-274	60.4	56.4	56.7	40.3	78.5	63.0	62.8	66.7	78.1	62.4	74.7	68.9
15	KMH-2689	55.9	60.0	55.0	51.4	80.6	62.9	65.6	64.9	81.3	63.1	83.0	71.6
16	KMH-2700(25K45)	79.5	61.9	56.7	37.8	80.2	69.6	64.2	79.9	81.6	61.8	83.0	74.1
17	NK 6607	80.2	60.3	56.7	52.8	80.6	69.4	58.7	72.6	83.0	63.1	82.6	72.0
18	S 7700	83.0	61.7	56.7	47.2	80.6	70.5	55.2	71.9	80.2	63.7	83.3	70.9
19	S 7720	80.6	64.4	56.7	51.4	77.1	69.7	57.6	77.4	80.9	62.4	84.4	72.6
20	RJ-2020	65.3	61.9	56.1	51.1	80.6	66.0	66.3	68.8	79.2	61.8	81.6	71.5
21	RJMH-2 By 1	67.4	65.0	56.7	48.3	80.6	67.4	59.0	68.4	78.8	63.4	72.2	68.4
22	A 7503	78.5	59.4	56.7	51.4	78.1	68.2	54.5	71.2	80.6	64.1	79.5	70.0
23	PRO 380	76.7	60.6	56.7	60.8	77.4	67.8	59.7	69.1	81.9	63.1	82.3	71.2
24	DHM 117	76.7	58.9	56.7	43.6	80.2	68.1	57.6	75.0	81.3	61.4	72.6	69.6
25	NMH-1242	79.9	63.9	56.7	48.1	80.6	70.2	60.4	76.4	80.9	61.8	82.3	72.4
26	BIO 151	80.9	60.0	56.7	50.0	79.5	69.3	63.9	74.3	82.6	63.7	80.9	73.1
	CHECKS												
27	BIO 9637	55.9	60.0	53.3	30.6	80.6	62.4	57.3	60.8	77.1	63.7	62.2	64.2
28	SEED TECH 2324	78.1	60.3	56.1	44.4	79.9	68.6	61.1	75.0	80.2	64.1	75.0	71.1
29	BULAND	79.5	60.3	56.7	57.5	77.1	68.4	59.0	70.8	81.3	61.8	81.3	70.8
30	BIO 9681	60.8	58.1	55.0	39.7	78.5	63.1	57.6	71.5	77.8	60.8	79.2	69.4
	Loc. Mean	72.2	60.4	56.1	46.2	79.3	67.0	60.1	71.4	79.3	62.7	79.2	70.6
	C.D. (5%)	8.56	2.23	2.81	16.13	2.70	7.56	5.87	8.27	5.52	3.04	10.55	4.25
	C.V. (%)	7.25	2.26	3.07	21.37	2.08	8.03	5.97	7.09	4.26	2.97	8.15	4.80
	F (Prob)	0.00	0.00	0.58	0.00	0.01	0.08	0.00	0.00	0.00	0.80	0.03	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : DELHI 21.4%

Table No.3 (Cont..)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	CMH08-239	56.1	62.8	53.3	62.2	66.3	61.8	60.4	56.3	46.9	51.6	64.0
2	CMH08-259	39.2	69.1	45.3	58.6	66.3	57.3	56.0	56.6	36.8	46.7	59.2
3	CMH08-282	50.6	63.2	58.6	60.1	66.3	58.0	59.5	56.6	57.6	57.1	64.2
4	CMH08-287	40.3	67.4	57.2	62.8	66.0	51.7	57.6	58.3	46.5	52.4	62.9
5	NMH-731	52.8	63.5	63.3	61.0	66.0	53.8	60.1	56.6	46.5	51.6	64.9
6	NMH-713	51.1	63.5	58.3	62.5	66.7	58.3	60.1	56.9	46.2	51.6	65.0
7	NMH-920	46.4	69.1	39.2	59.5	65.6	55.2	55.8	58.3	32.6	45.5	60.3
8	NMH-666	42.5	62.2	55.0	59.2	66.7	58.7	57.4	61.1	39.6	50.3	62.9
9	Bisco New 704	55.6	67.7	62.2	59.8	66.0	58.0	61.5	59.7	49.0	54.3	66.1
10	Bisco x -5129	58.9	62.5	64.4	60.4	66.0	56.9	61.5	57.6	46.5	52.1	65.5
11	Bisco x -9	54.7	69.1	61.4	59.2	66.0	56.3	61.1	53.8	43.4	48.6	64.6
12	HKH 402	29.4	69.4	35.0	58.3	65.6	56.6	52.4	50.7	28.8	39.8	57.3
13	HKH 408	41.4	63.2	50.3	61.0	65.6	59.4	56.8	55.6	40.6	48.1	60.5
14	KH-274	45.3	63.2	44.7	62.2	65.6	52.8	55.6	58.7	41.7	50.2	60.6
15	KMH-2689	43.1	66.7	48.6	59.2	66.3	60.4	57.4	58.0	37.8	47.9	61.7
16	KMH-2700(25K45)	55.6	70.1	64.7	64.3	66.0	56.9	62.9	56.6	36.1	46.4	65.8
17	NK 6607	51.7	69.4	58.1	59.5	66.0	54.9	59.9	55.2	44.4	49.8	64.5
18	S 7700	58.1	63.2	65.8	58.9	65.6	56.9	61.4	50.7	50.3	50.5	65.0
19	S 7720	60.6	69.1	62.2	61.9	66.7	60.1	63.4	59.4	53.5	56.4	66.8
20	RJ-2020	43.1	62.2	51.7	60.7	65.6	50.3	55.6	56.3	45.1	50.7	62.1
21	RJMH-2 By 1	53.1	68.8	48.3	57.1	66.0	53.8	57.8	56.6	42.0	49.3	62.2
22	A 7503	56.7	66.3	58.1	59.8	65.6	51.7	59.7	57.3	42.7	50.0	63.6
23	PRO 380	47.5	69.4	63.9	60.7	65.6	49.7	59.5	58.7	46.5	52.6	64.1
24	DHM 117	58.9	69.1	66.1	62.5	65.6	54.9	62.8	57.6	49.3	53.5	65.0
25	NMH-1242	58.6	63.9	61.7	65.8	66.3	53.5	61.6	60.4	49.0	54.7	66.0
26	BIO 151	51.4	67.7	65.0	68.2	66.0	52.1	61.7	60.1	42.4	51.2	65.6
	CHECKS											
27	BIO 9637	44.2	62.2	38.3	58.6	66.3	24.3	49.0	56.6	32.6	44.6	56.1
28	SEED TECH 2324	55.6	63.9	63.3	63.4	65.6	52.4	60.7	59.4	42.4	50.9	64.5
29	BULAND	61.1	67.0	66.1	58.6	66.7	55.6	62.5	59.0	48.6	53.8	65.3
30	BIO 9681	47.5	62.5	48.6	61.6	66.3	55.6	57.0	57.6	44.8	51.2	61.4
	Loc. Mean	50.4	65.9	56.0	60.9	66.0	54.6	59.0	57.2	43.7	50.4	63.3
	C.D. (5%)	13.69	1.21	7.23	3.63	0.96	5.01	5.86	6.96	5.65	9.03	3.04
	C.V. (%)	16.63	1.12	7.91	3.64	0.89	5.61	8.70	7.44	7.91	8.76	7.14
	F (Prob)	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.54	0.00	0.23	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : DELHI 21.4%

Table No.3 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED					ZN 2 Mean						ZN 3 Mean
		LUDH	KARN	PANT	DELH	KANP		BAHR	DHOL	VARA	BHUB	GOSS	
1	CMH08-239	140.0	137.0	129.7	132.7	98.0	127.5	125.3	118.0	112.0	68.0	124.3	109.5
2	CMH08-259	145.7	141.7	131.7	135.0	100.7	130.9	127.7	118.7	113.7	70.0	123.0	110.6
3	CMH08-282	142.3	139.7	131.7	134.0	97.7	129.1	124.7	123.3	111.3	69.0	122.3	110.1
4	CMH08-287	144.0	140.0	132.0	136.3	94.7	129.4	129.7	123.0	114.0	70.0	123.7	112.1
5	NMH-731	141.0	137.7	127.7	130.0	97.3	126.7	124.7	117.7	108.0	68.3	111.7	106.1
6	NMH-713	144.0	140.3	131.0	132.7	100.3	129.7	125.0	120.0	110.3	69.3	119.0	108.7
7	NMH-920	145.0	143.0	131.7	137.3	99.7	131.3	129.0	119.0	113.0	71.3	121.7	110.8
8	NMH-666	143.0	138.0	127.7	130.3	99.7	127.7	126.7	118.7	108.7	70.7	118.7	108.7
9	Bisco New 704	146.0	137.7	132.3	136.7	99.0	130.3	128.3	123.3	114.0	70.7	123.0	111.9
10	Bisco x -5129	141.0	141.0	127.3	130.7	100.3	128.1	126.3	117.7	107.7	68.0	112.3	106.4
11	Bisco x -9	143.7	138.7	130.0	135.3	96.7	128.9	126.7	120.3	111.7	70.3	122.0	110.2
12	HKH 402	144.3	141.7	131.0	135.0	95.0	129.4	127.0	117.3	113.0	69.7	122.3	109.9
13	HKH 408	142.0	137.0	128.0	130.7	97.7	127.1	121.0	114.7	109.0	68.0	118.7	106.3
14	KH-274	142.0	137.0	129.0	132.7	103.3	128.8	126.7	119.3	110.7	70.7	119.7	109.4
15	KMH-2689	145.0	142.3	132.3	135.0	98.3	130.6	127.3	122.0	112.3	71.3	119.0	110.4
16	KMH-2700(25K45)	144.7	136.3	131.3	133.7	94.3	128.1	127.3	122.7	112.7	69.3	121.7	110.7
17	NK 6607	144.0	138.7	131.0	133.7	104.3	130.3	126.3	120.7	108.0	68.7	121.0	108.9
18	S 7700	138.0	140.7	126.7	132.3	101.3	127.8	123.7	116.3	108.3	68.0	122.0	107.7
19	S 7720	144.3	137.0	130.7	133.7	96.7	128.5	128.0	121.7	112.0	70.0	122.3	110.8
20	RJ-2020	144.0	143.0	128.3	132.3	98.3	129.2	125.7	120.7	108.3	70.0	119.0	108.7
21	RJMH-2 By 1	142.0	142.0	132.3	135.3	95.7	129.5	129.0	123.3	113.7	72.0	121.3	111.9
22	A 7503	144.0	139.0	131.0	134.0	99.7	129.5	129.3	123.0	112.7	70.7	118.7	110.9
23	PRO 380	141.0	138.0	133.0	135.0	101.3	129.7	127.0	122.0	113.3	71.3	123.3	111.4
24	DHM 117	144.0	147.3	133.0	135.0	97.7	131.4	128.7	122.3	113.7	71.7	124.0	112.1
25	NMH-1242	136.3	133.3	126.0	130.7	102.3	125.7	121.7	115.3	105.3	67.0	112.0	104.3
26	BIO 151	141.7	137.7	128.7	131.7	98.0	127.5	126.3	117.7	109.3	71.0	118.0	108.5
	CHECKS												
27	BIO 9637	141.7	137.7	129.3	130.7	94.7	126.8	125.0	118.3	112.0	68.7	123.0	109.4
28	SEED TECH 2324	143.0	140.0	128.7	131.3	94.3	127.5	126.0	118.3	110.7	71.3	121.7	109.6
29	BULAND	147.7	141.7	133.0	139.0	100.7	132.4	132.0	123.3	114.3	72.0	123.3	113.0
30	BIO 9681	141.7	136.7	129.0	132.7	103.3	128.7	124.0	119.7	111.0	71.0	118.3	108.8
	Loc. Mean	142.9	139.4	130.2	133.5	98.7	128.9	126.5	119.9	111.2	69.9	120.4	109.6
	C.D. (5%)	3.85	1.33	1.99	2.14	2.84	2.65	1.27	2.98	1.33	2.47	7.64	2.07
	C.V. (%)	1.65	0.58	0.94	0.98	1.76	1.64	0.62	1.52	0.73	2.16	3.88	1.51
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00

Table No.3 (Cont..)

DAYS TO 50% POLLEN SHED

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	CMH08-239	77.3	63.0	76.3	66.0	55.0	59.3	66.2	91.0	77.0	84.0	97.2
2	CMH08-259	80.3	69.7	76.3	68.7	58.3	61.7	69.2	100.3	81.0	90.7	100.2
3	CMH08-282	78.0	64.0	77.7	68.3	54.7	56.3	66.5	93.0	77.0	85.0	98.1
4	CMH08-287	80.0	67.7	79.0	70.3	59.0	64.0	70.0	99.0	80.7	89.8	100.4
5	NMH-731	78.3	63.7	78.7	66.7	56.0	60.3	67.3	100.3	77.0	88.7	96.9
6	NMH-713	79.0	64.3	77.7	69.0	58.3	61.7	68.3	101.0	80.0	90.5	99.1
7	NMH-920	80.7	70.0	77.0	68.7	58.0	62.7	69.5	95.7	82.7	89.2	100.3
8	NMH-666	80.7	64.0	77.3	67.7	57.3	62.0	68.2	100.3	77.7	89.0	98.3
9	Bisco New 704	82.3	67.7	79.7	71.3	59.0	62.7	70.4	95.7	83.7	89.7	100.7
10	Bisco x -5129	77.0	64.0	77.3	67.0	56.0	62.0	67.2	87.7	79.0	83.3	96.8
11	Bisco x -9	80.7	69.7	78.3	69.3	58.3	63.7	70.0	97.7	80.3	89.0	99.6
12	HKH 402	80.0	71.0	79.0	70.7	56.7	61.0	69.7	94.3	82.7	88.5	99.5
13	HKH 408	77.0	64.0	76.0	66.0	53.3	58.0	65.7	96.0	76.0	86.0	96.3
14	KH-274	79.0	64.7	77.3	67.0	55.0	60.0	67.2	95.7	75.7	85.7	98.1
15	KMH-2689	81.0	66.7	77.7	70.0	58.7	62.0	69.3	96.3	82.7	89.5	100.0
16	KMH-2700(25K45)	79.3	71.3	79.0	69.3	58.0	60.0	69.5	98.0	82.3	90.2	99.5
17	NK 6607	78.3	70.7	77.3	68.3	55.3	61.0	68.5	91.3	79.7	85.5	98.8
18	S 7700	74.3	64.0	77.7	67.0	53.7	60.7	66.2	95.7	75.7	85.7	97.0
19	S 7720	82.0	70.0	79.0	72.3	57.0	63.0	70.6	94.3	81.3	87.8	99.7
20	RJ-2020	80.0	64.3	78.0	67.7	58.3	63.3	68.6	93.0	77.3	85.2	98.4
21	RJMH-2 By 1	82.7	69.3	79.7	72.0	59.7	64.0	71.2	95.0	83.7	89.3	100.7
22	A 7503	80.3	67.0	78.7	70.7	58.7	63.7	69.8	97.3	83.3	90.3	100.1
23	PRO 380	79.0	71.3	79.0	67.7	56.7	61.7	69.2	102.7	79.0	90.8	100.1
24	DHM 117	80.0	71.0	79.7	70.7	59.7	65.0	71.0	93.3	83.3	88.3	101.1
25	NMH-1242	76.3	64.0	76.3	67.0	54.0	59.3	66.2	88.0	74.3	81.2	95.0
26	BIO 151	78.0	67.7	78.0	67.7	58.0	62.0	68.6	95.0	79.0	87.0	98.1
	CHECKS											
27	BIO 9637	77.3	63.7	76.7	67.0	54.0	59.0	66.3	92.0	77.0	84.5	97.1
28	SEED TECH 2324	78.3	64.0	77.3	67.3	57.0	61.7	67.6	95.7	78.3	87.0	98.1
29	BULAND	82.7	68.0	79.0	72.3	60.7	65.0	71.3	97.0	83.7	90.3	102.0
30	BIO 9681	76.7	64.3	76.7	68.0	54.3	59.3	66.6	96.3	76.0	86.2	97.7
	Loc. Mean	79.2	66.8	77.9	68.7	57.0	61.5	68.5	95.6	79.6	87.6	98.8
	C.D. (5%)	2.31	1.87	2.23	1.56	0.93	1.98	1.48	1.69	2.77	5.88	1.22
	C.V. (%)	1.79	1.71	1.75	1.39	1.00	1.96	1.90	1.08	2.13	3.28	1.89
	F (Prob)	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00

Table No.3 (Cont..)

DAYS TO 50% SILKING

S.No.	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 Mean
1	CMH08-239	143.7	140.3	132.3	134.7	104.0	131.0	127.3	120.0	114.7	70.3	131.7	112.8
2	CMH08-259	148.7	144.3	134.7	136.7	106.7	134.2	130.0	120.7	83.3	72.3	125.3	106.3
3	CMH08-282	145.7	142.7	134.3	135.7	104.0	132.5	126.7	125.0	114.0	71.7	127.7	113.0
4	CMH08-287	146.7	143.0	135.0	138.0	101.0	132.7	132.3	124.7	117.3	73.0	126.0	114.7
5	NMH-731	144.0	140.3	130.3	132.3	104.0	130.2	126.7	119.3	112.0	70.7	123.7	110.5
6	NMH-713	149.3	143.0	134.0	134.7	107.3	133.7	126.0	122.0	114.0	71.7	126.3	112.0
7	NMH-920	149.7	146.3	135.0	140.3	105.3	135.3	131.0	120.7	116.0	73.3	126.3	113.5
8	NMH-666	144.7	140.3	130.7	132.7	106.7	131.0	128.7	120.7	112.7	73.0	123.0	111.6
9	Bisco New 704	148.7	140.0	135.3	138.7	104.7	133.5	130.3	125.0	117.3	72.7	127.3	114.5
10	Bisco x -5129	143.0	143.7	130.3	132.7	107.3	131.4	128.3	119.7	111.7	70.0	120.0	109.9
11	Bisco x -9	148.0	141.0	133.0	138.0	101.3	132.3	128.7	122.3	116.3	72.3	126.7	113.3
12	HKH 402	146.7	144.7	134.3	136.7	102.3	132.9	129.0	119.3	116.3	71.7	127.3	112.7
13	HKH 408	144.7	139.3	130.7	132.0	105.7	130.5	123.0	116.7	112.3	70.3	125.0	109.5
14	KH-274	146.7	139.3	131.3	135.0	109.3	132.3	129.0	121.3	114.7	72.7	123.3	112.2
15	KMH-2689	148.7	144.7	134.7	137.0	105.7	134.1	129.3	124.0	115.7	73.3	130.0	114.5
16	KMH-2700(25K45)	148.7	139.3	134.3	136.3	100.3	131.8	129.3	125.0	116.3	71.7	125.0	113.5
17	NK 6607	150.0	141.0	134.3	137.0	110.3	134.5	128.7	123.0	114.0	70.0	127.7	112.7
18	S 7700	144.0	143.0	129.7	134.0	108.3	131.8	125.7	118.3	112.0	70.3	123.7	110.0
19	S 7720	148.0	139.7	133.7	135.3	105.7	132.5	130.0	123.7	115.7	72.7	126.0	113.6
20	RJ-2020	147.0	146.0	131.0	134.0	105.3	132.7	127.7	122.3	112.7	72.0	122.3	111.4
21	RJMH-2 By 1	146.0	144.7	134.3	137.7	102.3	133.0	131.0	125.3	116.3	74.7	125.0	114.5
22	A 7503	148.0	141.3	134.0	136.7	105.7	133.1	131.3	125.0	117.0	72.7	124.7	114.1
23	PRO 380	147.7	141.3	136.0	137.0	107.3	133.9	129.0	124.0	115.0	74.0	129.0	114.2
24	DHM 117	149.0	150.3	136.0	138.7	104.3	135.7	130.7	124.7	118.0	74.3	126.7	114.9
25	NMH-1242	140.0	136.3	129.0	133.0	109.0	129.5	124.7	117.7	111.3	69.7	118.0	108.3
26	BIO 151	146.3	141.0	131.7	133.7	106.0	131.7	128.3	120.0	113.0	73.3	123.3	111.6
	CHECKS												
27	BIO 9637	144.3	140.0	132.3	132.7	102.7	130.4	127.0	120.3	116.0	71.0	125.7	112.0
28	SEED TECH 2324	147.3	142.7	131.3	133.0	101.3	131.1	128.0	120.3	114.7	73.7	124.3	112.2
29	BULAND	151.3	144.7	136.0	141.0	107.7	136.1	134.0	124.7	118.0	74.0	128.0	115.7
30	BIO 9681	145.0	139.7	132.0	134.7	110.0	132.3	126.3	121.7	114.0	73.7	123.0	111.7
	Loc. Mean	146.7	142.1	133.1	135.7	105.4	132.6	128.6	121.9	113.7	72.2	125.4	112.4
	C.D. (5%)	3.77	1.48	2.03	2.37	2.47	2.66	1.48	2.86	17.31	2.70	6.67	3.76
	C.V. (%)	1.57	0.64	0.93	1.07	1.44	1.60	0.70	1.43	9.31	2.29	3.25	2.67
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.14	0.00

Table No.3 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% SILKING ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	CMH08-239	80.0	97.3	77.3	68.0	56.7	61.7	73.5	95.0	80.3	87.7	102.0
2	CMH08-259	81.3	103.3	77.3	71.7	60.3	63.3	76.2	104.3	85.7	95.0	102.8
3	CMH08-282	78.3	97.7	78.7	70.0	56.7	59.0	73.4	97.0	80.7	88.8	102.5
4	CMH08-287	80.7	101.7	80.0	72.3	61.0	66.0	76.9	103.0	85.3	94.2	104.8
5	NMH-731	79.7	98.0	79.7	69.3	58.3	62.0	74.5	104.3	81.7	93.0	102.0
6	NMH-713	81.3	98.0	78.7	73.7	60.3	63.3	75.9	105.0	83.3	94.2	104.0
7	NMH-920	80.0	103.3	78.0	72.0	60.0	64.7	76.3	99.7	87.0	93.3	104.9
8	NMH-666	82.3	96.7	78.3	69.7	59.3	65.3	75.3	104.3	81.7	93.0	102.8
9	Bisco New 704	83.0	102.0	80.7	73.3	61.0	65.0	77.5	99.7	87.0	93.3	105.1
10	Bisco x -5129	78.0	97.0	78.3	69.0	57.7	64.7	74.1	91.7	82.7	87.2	101.4
11	Bisco x -9	81.7	103.3	79.3	71.0	60.7	66.3	77.1	101.7	84.3	93.0	104.2
12	HKH 402	81.3	103.7	80.0	72.0	58.7	64.0	76.6	98.3	87.0	92.7	104.1
13	HKH 408	77.0	97.7	77.0	67.0	55.3	59.7	72.3	99.7	80.3	90.0	100.7
14	KH-274	81.3	97.7	78.3	70.3	57.0	62.7	74.6	99.7	81.0	90.3	102.8
15	KMH-2689	82.0	101.0	78.7	74.7	60.7	63.7	76.8	100.3	87.7	94.0	105.1
16	KMH-2700(25K45)	82.0	104.3	80.0	72.3	60.3	62.0	76.8	102.0	86.3	94.2	104.2
17	NK 6607	80.7	103.7	78.3	72.7	57.3	63.7	76.1	95.3	84.3	89.8	104.0
18	S 7700	75.0	97.7	78.7	70.3	55.7	62.3	73.3	126.3	79.7	103.0	103.0
19	S 7720	82.7	103.3	80.0	75.3	59.0	65.0	77.6	98.3	85.3	91.8	104.4
20	RJ-2020	81.3	96.7	79.0	70.0	60.3	65.0	75.4	96.7	81.7	89.2	102.8
21	RJMH-2 By 1	83.7	103.0	80.7	74.0	61.7	66.0	78.2	99.0	87.3	93.2	105.1
22	A 7503	81.7	100.7	79.7	74.7	60.7	65.7	77.2	101.3	87.0	94.2	104.9
23	PRO 380	80.0	103.7	80.3	72.0	58.7	64.7	76.6	104.7	84.0	94.3	104.9
24	DHM 117	83.7	103.3	80.7	75.3	61.7	68.0	78.8	97.0	88.3	92.7	106.1
25	NMH-1242	77.0	98.3	77.3	70.7	56.0	61.7	73.5	92.3	78.7	85.5	100.0
26	BIO 151	79.3	102.0	79.0	70.0	60.7	65.0	76.0	99.0	82.7	90.8	103.0
	CHECKS											
27	BIO 9637	79.7	96.7	77.7	69.0	56.3	61.7	73.5	96.0	80.3	88.2	101.6
28	SEED TECH 2324	78.7	98.3	78.3	69.3	59.0	64.3	74.7	100.0	82.7	91.3	102.6
29	BULAND	83.3	101.3	80.0	75.7	62.7	67.3	78.4	101.0	88.0	94.5	106.6
30	BIO 9681	78.0	97.0	77.7	71.0	56.3	62.0	73.7	100.3	81.0	90.7	102.4
	Loc. Mean	80.5	100.3	78.9	71.5	59.0	63.9	75.7	100.4	83.8	92.1	103.5
	C.D. (5%)	2.44	1.16	2.21	2.38	0.99	1.70	1.56	14.07	2.93	9.84	1.72
	C.V. (%)	1.86	0.71	1.72	2.04	1.02	1.63	1.81	8.57	2.14	5.23	2.53
	F (Prob)	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.11	0.00	0.60	0.00

Table No.3 (Cont..)

S.No.	PEDIGREE	LUDH	KARN	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 Mean
	DAYS TO 75% DRY HUSK											
1	CMH08-239	174.7	178.7	181.0	136.0	167.6	160.3	155.3	149.0	108.7	192.0	153.1
2	CMH08-259	176.7	177.7	183.7	139.3	169.3	161.7	155.0	149.3	111.0	192.0	153.8
3	CMH08-282	176.3	178.7	180.3	136.7	168.0	159.7	155.3	147.7	108.7	192.0	152.7
4	CMH08-287	178.0	178.3	181.7	133.7	167.9	162.3	156.0	149.3	113.3	192.0	154.6
5	NMH-731	178.3	179.7	180.7	137.0	168.9	161.3	157.0	151.0	115.3	192.0	155.3
6	NMH-713	180.3	178.3	180.7	139.0	169.6	163.3	156.0	149.7	116.0	192.0	155.4
7	NMH-920	180.3	180.7	186.0	137.7	171.2	164.7	158.7	149.0	116.0	192.0	156.1
8	NMH-666	182.7	182.3	178.7	138.7	170.6	165.0	158.0	144.7	117.0	192.0	155.3
9	Bisco New 704	180.7	180.0	185.7	138.7	171.3	165.7	158.0	151.0	115.7	192.0	156.5
10	Bisco x -5129	170.7	178.0	179.0	139.0	166.7	159.7	157.7	147.0	111.3	192.0	153.5
11	Bisco x -9	178.0	180.3	183.0	135.3	169.2	163.3	157.0	149.3	110.3	192.0	154.4
12	HKH 402	177.3	180.7	182.3	134.7	168.8	161.7	157.3	150.3	110.7	192.0	154.4
13	HKH 408	177.7	175.3	178.3	136.7	167.0	160.7	156.0	151.7	112.7	192.0	154.6
14	KH-274	176.0	180.0	180.7	139.7	169.1	162.3	156.7	149.0	117.0	192.0	155.4
15	KMH-2689	181.3	182.0	181.3	138.3	170.8	163.3	159.3	150.0	118.0	192.0	156.5
16	KMH-2700(25K45)	180.3	176.0	183.0	134.3	168.4	165.3	159.0	150.7	115.3	192.0	156.5
17	NK 6607	180.3	179.3	183.7	139.3	170.7	161.7	158.0	148.0	111.7	192.0	154.3
18	S 7700	177.3	178.7	179.3	141.0	169.1	159.3	157.7	148.3	109.0	192.0	153.3
19	S 7720	181.7	177.7	181.0	138.7	169.8	162.7	158.3	148.7	116.0	192.0	155.5
20	RJ-2020	180.3	180.7	180.3	138.3	169.9	164.7	157.7	152.0	115.0	192.0	156.3
21	RJMH-2 By 1	181.3	180.3	184.3	136.7	170.7	165.3	159.0	148.3	114.3	192.0	155.8
22	A 7503	180.3	181.0	182.3	136.7	170.1	162.0	159.7	150.0	113.7	192.0	155.5
23	PRO 380	179.7	178.3	183.0	139.0	170.0	163.7	157.7	151.0	111.7	192.0	155.2
24	DHM 117	181.0	182.0	184.0	138.7	171.4	162.7	157.0	150.7	114.0	192.0	155.3
25	NMH-1242	174.0	170.0	179.3	142.7	166.5	160.3	153.3	146.3	107.7	192.0	151.9
26	BIO 151	178.0	176.3	178.7	140.3	168.3	160.3	155.0	148.3	112.3	192.0	153.6
	CHECKS											
27	BIO 9637	176.3	176.0	178.7	137.0	167.0	160.0	155.7	149.7	111.0	192.0	153.7
28	SEED TECH 2324	177.7	177.3	179.0	137.0	167.8	161.3	156.3	151.3	111.7	192.0	154.5
29	BULAND	180.7	183.0	186.3	137.3	171.8	162.7	157.0	150.3	111.7	192.0	154.7
30	BIO 9681	176.3	177.7	181.0	141.0	169.0	161.7	155.0	149.3	116.0	192.0	154.8
	Loc. Mean	178.5	178.8	181.6	137.9	169.2	162.3	157.0	149.4	113.1	192.0	154.7
	C.D. (5%)	6.82	2.45	4.31	3.39	3.08	1.00	2.03	2.17	4.24-		1.92
	C.V. (%)	2.34	0.84	1.45	1.50	1.30	0.38	0.79	0.89	2.29-		0.99
	F (Prob)	0.25	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00-		0.00

Table No.3 (Cont..)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	CMH08-239	128.7	236.7	121.7	112.0	103.3	104.7	134.5	140.3	123.0	131.7	147.4
2	CMH08-259	125.3	246.7	121.3	116.0	106.7	107.0	137.2	152.0	123.0	137.5	149.7
3	CMH08-282	125.3	265.0	120.7	111.0	102.3	102.7	137.8	138.3	121.3	129.8	148.4
4	CMH08-287	128.3	281.7	123.7	115.0	107.7	110.0	144.4	145.0	122.3	133.7	151.7
5	NMH-731	129.7	216.7	121.7	117.0	104.0	104.7	132.3	150.7	122.3	136.5	148.2
6	NMH-713	126.3	251.7	120.7	117.3	107.3	107.0	138.4	153.7	122.7	138.2	150.7
7	NMH-920	127.3	233.3	122.7	118.0	107.0	109.3	136.3	151.3	123.0	137.2	150.4
8	NMH-666	125.7	235.0	120.3	117.7	104.7	109.0	135.4	144.3	122.3	133.3	149.3
9	Bisco New 704	125.3	253.3	122.7	117.7	108.0	109.3	139.4	151.7	122.7	137.2	151.6
10	Bisco x -5129	126.0	246.7	122.0	117.0	103.7	109.0	137.4	137.3	123.3	130.3	148.2
11	Bisco x -9	128.0	261.7	121.3	117.0	107.7	110.3	141.0	144.3	123.3	133.8	150.7
12	HKH 402	124.0	245.0	123.7	117.0	105.7	107.0	137.1	142.0	121.7	131.8	149.0
13	HKH 408	124.3	236.7	121.7	113.3	101.3	103.0	133.4	144.0	122.3	133.2	147.5
14	KH-274	126.7	245.0	120.3	117.0	103.3	105.3	136.3	144.7	123.0	133.8	149.3
15	KMH-2689	126.3	251.7	120.7	118.3	105.0	107.7	138.3	147.3	122.0	134.7	150.9
16	KMH-2700(25K45)	128.0	260.0	123.3	117.7	106.3	105.3	140.1	153.0	124.0	138.5	151.4
17	NK 6607	125.7	245.0	122.7	114.7	103.0	107.3	136.4	132.7	120.3	126.5	148.5
18	S 7700	125.3	236.7	120.7	117.3	102.3	104.7	134.5	144.3	121.0	132.7	147.9
19	S 7720	129.0	248.3	122.0	117.3	104.0	109.7	138.4	137.3	121.7	129.5	149.8
20	RJ-2020	124.7	236.7	121.0	118.0	107.7	110.0	136.3	141.7	122.0	131.8	149.6
21	RJMH-2 By 1	126.7	255.0	122.7	118.0	106.0	110.3	139.8	138.0	123.3	130.7	150.7
22	A 7503	127.0	233.3	121.7	117.3	104.7	110.3	135.7	145.3	121.3	133.3	149.3
23	PRO 380	131.7	218.3	123.3	115.3	106.0	108.7	133.9	153.3	123.0	138.2	149.2
24	DHM 117	125.7	235.0	122.7	117.3	107.7	112.0	136.7	140.3	122.0	131.2	149.7
25	NMH-1242	125.3	238.3	119.3	110.3	102.0	104.3	133.3	138.0	121.7	129.8	146.2
26	BIO 151	128.3	240.0	122.7	114.7	107.7	109.3	137.1	150.3	122.0	136.2	149.2
	CHECKS											
27	BIO 9637	125.0	235.0	121.3	117.3	102.0	105.3	134.3	146.0	122.3	134.2	147.7
28	SEED TECH 2324	127.0	236.7	120.3	117.7	105.7	108.7	136.0	144.3	121.7	133.0	148.6
29	BULAND	128.3	261.7	122.0	115.7	108.0	111.7	141.2	134.3	122.0	128.2	150.9
30	BIO 9681	125.7	248.3	119.7	114.3	102.7	105.0	135.9	144.7	121.3	133.0	148.9
	Loc. Mean	126.7	244.5	121.7	116.1	105.1	107.6	137.0	144.4	122.3	133.3	149.3
	C.D. (5%)	3.31	33.65	3.83	2.59	0.92	2.19	6.47	2.47	2.82	8.00	2.64
	C.V. (%)	1.60	8.42	1.92	1.36	0.53	1.24	4.14	1.05	1.41	2.93	2.63
	F (Prob)	0.00	0.20	0.81	0.00	0.00	0.00	0.15	0.00	0.88	0.26	0.00

Table No.3 (Cont..)

S.No.	PEDIGREE	PLANT HEIGHT(cm) LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 Mean
1	CMH08-239	165.3	123.3	203.7	158.7	185.0	167.2	189.3	172.0	180.5	204.9	126.7	174.7
2	CMH08-259	150.0	128.3	202.7	156.7	180.3	163.6	181.7	170.3	193.0	192.5	132.3	174.0
3	CMH08-282	179.3	135.0	208.7	172.3	180.3	175.1	218.7	180.0	208.0	204.2	150.7	192.3
4	CMH08-287	193.7	126.7	220.0	182.0	176.3	179.7	208.3	199.3	225.0	215.7	147.3	199.1
5	NMH-731	160.0	130.0	195.3	162.7	183.3	166.3	181.0	168.0	185.0	204.0	129.0	173.4
6	NMH-713	129.0	118.3	205.7	150.3	174.3	155.5	196.7	145.0	186.5	205.0	116.0	169.8
7	NMH-920	141.0	125.0	201.3	149.0	165.7	156.4	187.0	159.7	179.0	205.5	134.3	173.1
8	NMH-666	173.3	160.0	219.7	169.3	172.3	178.9	207.0	180.7	206.5	209.0	137.3	188.1
9	Bisco New 704	150.3	128.3	203.3	160.3	178.7	164.2	222.0	170.3	171.5	207.0	137.7	181.7
10	Bisco x -5129	142.0	138.3	193.3	159.0	186.0	163.7	180.3	167.3	209.0	219.3	148.0	184.8
11	Bisco x -9	161.7	135.0	223.3	163.3	186.3	173.9	224.0	181.7	213.0	216.8	137.0	194.5
12	HKH 402	134.0	116.7	188.7	152.3	196.3	157.6	179.7	150.3	172.5	187.0	118.0	161.5
13	HKH 408	123.7	115.0	179.7	151.7	198.3	153.7	186.3	152.0	189.0	204.7	141.0	174.6
14	KH-274	160.7	151.7	189.7	174.7	196.0	174.5	214.0	178.7	192.0	199.4	123.3	181.5
15	KMH-2689	126.3	135.0	190.3	159.3	190.0	160.2	190.7	148.3	197.5	202.3	132.3	174.2
16	KMH-2700(25K45)	165.0	148.3	226.7	164.7	196.3	180.2	237.0	177.7	214.5	197.9	139.0	193.2
17	NK 6607	175.3	155.0	210.0	169.3	187.7	179.5	198.0	164.0	204.5	207.4	130.7	180.9
18	S 7700	143.0	115.0	217.3	166.7	177.7	163.9	208.0	169.7	207.5	209.0	144.7	187.8
19	S 7720	153.3	133.3	220.7	167.7	198.7	174.7	211.0	157.0	202.5	218.0	138.3	185.4
20	RJ-2020	154.3	145.0	209.3	169.3	203.3	176.3	208.3	169.7	204.0	211.0	150.3	188.7
21	RJMH-2 By 1	156.0	135.0	206.7	162.3	183.3	168.7	209.3	163.0	191.5	210.1	152.0	185.2
22	A 7503	145.3	120.0	206.0	160.0	193.7	165.0	197.0	160.0	196.5	206.5	149.0	181.8
23	PRO 380	148.0	130.0	199.3	161.7	198.7	167.5	193.3	158.7	184.0	189.1	116.0	168.2
24	DHM 117	164.3	123.3	212.7	172.3	187.0	171.9	209.0	168.7	184.0	211.8	146.3	184.0
25	NMH-1242	134.7	140.0	210.0	153.7	193.0	166.3	204.7	148.3	190.5	214.6	135.7	178.8
26	BIO 151	108.3	136.7	178.7	146.7	186.3	151.3	178.7	150.7	179.5	204.1	117.7	166.1
	CHECKS												
27	BIO 9637	141.7	145.0	200.3	156.7	192.0	167.1	200.3	167.7	189.0	184.9	141.3	176.6
28	SEED TECH 2324	137.7	111.7	199.0	148.3	184.0	156.1	193.7	159.7	189.0	205.1	135.3	176.5
29	BULAND	169.0	150.0	224.3	173.7	201.7	183.7	211.3	174.0	203.5	220.9	142.3	190.4
30	BIO 9681	159.0	100.0	212.7	159.3	197.0	165.6	228.0	184.0	205.0	212.3	160.3	197.9
	Loc. Mean	151.5	131.8	205.3	161.8	187.7	167.6	201.8	166.5	195.1	206.0	137.0	181.3
	C.D. (5%)	27.39	31.32	17.58	9.55	6.40	13.64	27.45	14.80	9.80	15.55	20.56	11.44
	C.V. (%)	11.06	14.53	5.24	3.61	2.09	6.50	8.32	5.44	3.07	4.62	9.18	5.04
	F (Prob)	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No.3 (Cont..)

S.No.	PEDIGREE	PLANT HEIGHT(cm ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	CMH08-239	201.0	86.7	181.7	238.0	203.3	198.3	184.8	220.4	209.3	214.9	180.4
2	CMH08-259	195.0	88.3	195.0	232.3	203.7	191.2	184.3	225.3	206.3	215.8	179.2
3	CMH08-282	214.0	115.0	191.7	240.3	229.5	201.4	198.6	258.6	227.7	243.1	195.3
4	CMH08-287	191.0	116.7	200.0	248.0	210.4	213.0	196.5	267.0	240.0	253.5	198.9
5	NMH-731	211.5	83.3	178.3	246.0	206.5	201.1	187.8	257.0	221.0	239.0	183.5
6	NMH-713	206.0	88.3	173.3	218.7	201.8	191.2	179.9	238.8	216.7	227.7	175.6
7	NMH-920	207.5	103.3	195.0	232.3	198.6	177.2	185.7	252.2	227.3	239.8	180.1
8	NMH-666	204.5	78.3	186.7	239.7	212.9	203.5	187.6	209.0	217.3	213.2	188.2
9	Bisco New 704	209.0	105.0	175.0	235.7	207.3	192.3	187.4	215.6	236.3	226.0	183.7
10	Bisco x -5129	199.5	90.0	198.3	232.0	195.7	193.1	184.8	256.9	217.7	237.3	184.8
11	Bisco x -9	218.5	103.3	190.0	248.0	195.5	197.0	192.1	252.1	228.3	240.2	193.0
12	HKH 402	186.5	101.7	166.7	229.3	180.4	171.6	172.7	220.4	212.7	216.6	170.3
13	HKH 408	177.5	95.0	173.3	237.3	190.3	176.9	175.1	238.7	201.0	219.9	174.0
14	KH-274	188.0	86.7	176.7	225.7	196.9	167.1	173.5	255.5	222.0	238.8	183.3
15	KMH-2689	198.0	106.7	191.7	230.7	204.2	189.3	186.8	275.4	225.0	250.2	182.9
16	KMH-2700(25K45)	213.0	92.0	196.7	245.3	207.6	207.6	193.7	228.9	235.7	232.3	194.1
17	NK 6607	202.0	85.0	188.3	229.3	199.0	186.1	181.6	252.1	226.3	239.2	187.2
18	S 7700	213.5	83.3	195.0	228.3	212.3	199.1	188.6	205.3	218.3	211.8	184.1
19	S 7720	210.5	96.7	195.0	235.3	209.7	184.1	188.6	290.6	220.7	255.7	191.3
20	RJ-2020	201.0	88.3	201.7	242.3	205.0	196.5	189.1	208.7	228.0	218.4	188.7
21	RJMH-2 By 1	203.5	110.0	176.7	221.3	203.5	182.5	182.9	232.0	216.7	224.4	184.2
22	A 7503	202.0	95.0	191.7	221.0	205.3	177.5	182.1	240.4	215.0	227.7	182.3
23	PRO 380	211.0	93.3	175.0	217.3	189.7	169.4	176.0	220.6	225.0	222.8	176.7
24	DHM 117	207.5	103.3	176.7	238.3	204.9	189.4	186.7	258.8	201.7	230.2	186.7
25	NMH-1242	205.0	83.3	190.0	223.7	215.1	210.4	187.9	260.4	229.0	244.7	185.7
26	BIO 151	187.0	95.0	196.7	218.3	185.5	175.7	176.4	212.8	198.7	205.7	169.8
	CHECKS											
27	BIO 9637	193.0	98.3	183.3	239.3	202.9	177.8	182.5	255.5	225.7	240.6	183.0
28	SEED TECH 2324	201.0	106.7	168.3	223.3	189.2	173.1	176.9	208.8	202.7	205.7	174.2
29	BULAND	211.5	115.0	191.7	251.0	209.8	193.4	195.4	254.0	239.7	246.8	196.5
30	BIO 9681	205.0	81.7	195.0	227.7	194.1	203.5	184.5	217.2	225.0	221.1	187.0
	Loc. Mean	202.5	95.8	186.5	233.2	202.4	189.7	185.0	239.6	220.6	230.1	184.2
	C.D. (5%)	15.12	24.39	25.28	21.48	4.82	22.10	10.15	25.01	15.84	31.87	7.03
	C.V. (%)	4.57	15.57	8.29	5.63	1.46	7.13	4.81	6.38	4.39	6.77	5.83
	F (Prob)	0.00	0.07	0.20	0.06	0.00	0.00	0.00	0.00	0.00	0.10	0.00

Table No.3 (Cont..)

S.No.	PEDIGREE	EAR HEIGHT(cm) LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	BHUB	GOSS	ZN 3 Mean
1	CMH08-239	63.7	48.3	72.7	99.0	72.0	81.2	78.0	70.0	82.5	93.3	35.3	71.8
2	CMH08-259	63.3	56.7	77.3	95.7	66.7	79.9	82.0	79.3	101.0	95.4	56.5	82.8
3	CMH08-282	78.3	61.7	86.0	111.3	66.0	87.8	112.7	81.7	113.0	101.9	59.3	93.7
4	CMH08-287	90.0	60.0	91.0	114.7	64.7	90.1	95.3	90.3	121.0	104.1	51.2	92.4
5	NMH-731	59.0	50.0	69.0	96.7	61.0	75.6	71.3	69.0	95.0	94.5	47.3	75.4
6	NMH-713	36.7	41.7	67.3	87.3	62.0	72.2	80.3	61.7	88.5	102.8	53.7	77.4
7	NMH-920	58.3	50.0	78.7	91.7	64.0	78.1	96.7	76.0	92.0	98.2	57.7	84.1
8	NMH-666	60.3	50.0	77.3	102.0	67.7	82.3	75.0	66.3	92.5	92.7	55.0	76.3
9	Bisco New 704	64.0	55.0	83.0	103.0	65.3	83.8	112.0	84.0	113.5	100.1	51.0	92.1
10	Bisco x -5129	54.0	53.3	70.3	98.7	66.0	78.3	86.3	72.7	106.0	106.6	61.3	86.6
11	Bisco x -9	68.7	66.7	98.7	104.7	66.3	89.9	76.0	89.7	112.0	112.9	66.8	91.5
12	HKH 402	60.3	46.7	81.3	101.0	69.3	83.9	94.3	77.7	96.0	99.5	52.7	84.0
13	HKH 408	39.3	63.3	68.3	98.0	69.3	78.6	103.0	73.7	100.0	93.4	56.7	85.3
14	KH-274	62.7	78.3	76.0	109.3	64.7	83.3	96.3	84.7	99.5	98.8	46.3	85.1
15	KMH-2689	34.3	63.3	75.3	102.0	60.3	79.2	97.0	66.0	105.5	90.3	50.3	81.8
16	KMH-2700(25K45)	57.0	61.7	89.3	102.3	63.0	84.9	105.3	71.7	105.0	87.4	54.7	84.8
17	NK 6607	72.7	63.3	73.3	105.0	58.0	78.8	88.0	65.0	91.5	99.5	46.3	78.1
18	S 7700	53.0	41.7	85.0	98.7	58.0	80.6	89.7	74.3	93.0	96.1	48.7	80.3
19	S 7720	55.7	55.0	79.7	100.3	62.0	80.7	93.3	61.3	95.0	96.3	52.8	79.8
20	RJ-2020	48.0	61.7	72.3	100.3	69.0	80.6	74.0	66.7	90.0	96.7	53.7	76.2
21	RJMH-2 By 1	68.0	63.3	81.7	107.7	68.3	85.9	98.0	73.0	99.0	103.6	66.0	87.9
22	A 7503	54.0	58.3	72.0	98.0	66.7	78.9	99.3	67.0	97.0	106.5	54.0	84.8
23	PRO 380	57.0	63.3	77.7	101.0	60.3	79.7	89.3	77.0	107.0	94.8	49.3	83.5
24	DHM 117	67.7	65.0	84.7	116.7	61.0	87.4	108.3	81.3	92.0	107.3	59.0	89.6
25	NMH-1242	38.7	60.0	75.0	93.0	60.0	76.0	83.0	66.0	96.0	99.5	54.0	79.7
26	BIO 151	41.0	68.3	75.3	95.0	58.7	76.3	87.7	77.7	103.0	111.1	62.3	88.4
	CHECKS												
27	BIO 9637	78.3	61.7	77.0	98.7	60.7	78.8	82.3	80.3	91.5	85.7	44.3	76.8
28	SEED TECH 2324	60.3	46.7	81.7	100.7	66.3	82.9	113.3	85.7	113.0	113.9	45.0	94.2
29	BULAND	80.0	68.3	90.0	116.7	65.7	90.8	108.7	84.0	109.5	109.5	49.3	92.2
30	BIO 9681	60.3	40.0	88.0	100.3	60.7	83.0	112.7	81.7	104.0	97.5	49.7	89.1
	Loc. Mean	59.5	57.4	79.2	101.6	64.1	81.6	93.0	75.2	100.2	99.7	53.0	84.2
	C.D. (5%)	22.08	20.90	13.57	12.72	5.25	8.70	28.78	12.95	6.37	13.02	16.79	9.25
	C.V. (%)	22.70	22.26	10.49	7.66	5.01	6.52	18.94	10.54	3.89	7.99	19.37	8.77
	F (Prob)	0.00	0.09	0.00	0.00	0.00	0.01	0.07	0.00	0.00	0.00	0.22	0.00

Locations Rejected due to High C.V.(i.e.> 20%) LUDHIANA 22.7%: KARNAL 22.3%

Table No.3 (Cont..)

S.No.	PEDIGREE	EAR HEIGHT(cm) ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	CMH08-239	87.5	62.0	96.7	121.3	104.4	95.6	94.6	108.6	91.7	100.2	85.7
2	CMH08-259	86.0	50.0	113.3	122.0	114.3	106.7	98.7	120.6	86.0	103.3	90.8
3	CMH08-282	93.5	63.0	111.7	128.7	130.2	114.1	106.8	113.9	113.7	113.8	100.0
4	CMH08-287	91.5	55.0	103.3	125.0	118.3	123.1	102.7	115.5	118.7	117.1	98.9
5	NMH-731	106.5	55.0	103.3	131.0	109.2	105.6	101.8	115.6	102.0	108.8	89.5
6	NMH-713	92.0	53.7	98.3	110.3	111.1	91.7	92.9	110.9	95.7	103.3	85.5
7	NMH-920	105.0	42.3	113.3	119.3	108.7	102.3	98.5	107.1	116.3	111.7	91.8
8	NMH-666	88.5	53.7	101.7	115.0	110.3	101.7	95.1	105.7	87.7	96.7	87.1
9	Bisco New 704	109.0	61.3	100.0	124.0	113.3	122.3	105.0	125.5	108.7	117.1	98.5
10	Bisco x -5129	83.5	63.3	101.7	122.0	110.0	100.5	96.8	97.2	95.7	96.5	90.1
11	Bisco x -9	103.5	54.7	115.0	127.7	114.2	115.3	105.1	118.8	120.3	119.6	99.8
12	HKH 402	94.5	44.7	93.3	117.7	103.5	100.8	92.4	118.5	114.3	116.4	91.2
13	HKH 408	75.0	58.7	90.0	118.7	92.1	86.9	86.9	113.9	91.0	102.5	86.8
14	KH-274	80.5	59.0	101.7	111.7	99.2	86.2	89.7	97.3	103.3	100.3	88.4
15	KMH-2689	89.0	53.7	118.3	117.0	108.8	104.1	98.5	138.5	108.7	123.6	92.8
16	KMH-2700(25K45)	95.5	54.0	110.0	120.3	111.8	103.5	99.2	111.9	110.0	111.0	93.5
17	NK 6607	79.0	61.7	106.7	114.3	100.9	102.7	94.2	132.2	103.7	117.9	89.2
18	S 7700	95.5	63.7	113.3	110.7	113.5	105.5	100.4	110.4	83.7	97.0	90.0
19	S 7720	99.5	63.3	108.3	120.3	123.9	103.0	103.1	128.8	100.0	114.4	93.0
20	RJ-2020	84.5	52.0	106.7	126.0	105.9	91.2	94.4	95.5	106.0	100.8	86.9
21	RJMH-2 By 1	90.5	53.0	123.3	109.0	115.6	103.3	99.1	120.5	111.0	115.8	95.2
22	A 7503	97.0	67.7	120.0	115.7	117.4	101.5	103.2	115.0	112.3	113.7	94.2
23	PRO 380	102.0	65.3	101.7	109.7	99.2	102.5	96.7	112.2	106.7	109.4	91.0
24	DHM 117	94.5	59.7	98.3	117.0	109.3	98.7	96.3	125.6	98.7	112.1	94.5
25	NMH-1242	97.5	65.7	96.7	113.3	113.0	109.4	99.3	118.9	100.0	109.5	90.1
26	BIO 151	84.5	69.3	118.3	113.3	103.6	103.2	98.7	110.7	101.7	106.2	92.2
	CHECKS											
27	BIO 9637	83.5	49.7	101.7	121.0	107.8	89.3	92.2	130.4	103.7	117.0	88.0
28	SEED TECH 2324	108.0	60.3	108.3	119.0	114.0	109.9	103.3	118.9	103.3	111.1	97.6
29	BULAND	110.0	54.0	130.0	138.7	105.0	113.6	108.5	142.5	130.3	136.4	103.6
30	BIO 9681	94.5	48.3	118.3	110.7	102.6	98.1	95.4	105.5	103.3	104.4	92.2
	Loc. Mean	93.4	57.3	107.4	119.0	109.7	103.1	98.3	116.2	104.3	110.2	92.3
	C.D. (5%)	13.28	3.07	21.22	14.77	4.19	15.97	8.15	18.65	14.87	18.35	5.18
	C.V. (%)	8.70	3.28	12.09	7.59	2.34	9.48	7.27	9.82	8.72	8.14	8.07
	F (Prob)	0.00	0.00	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.04	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : LUDHIANA 22.7%: KARNAL 22.3%

TABLE No.4

PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT LUDHIANA, KARNAL, PANTNAGAR, DELHI, KANPUR, BAHRAICH, DHOLI,VARANASI,RANCHI,BHUBANESHWAR, GOSSAINGAON, ARBHAVI, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, VAGARAI, BANSWARA, GODHRA IN AET 2nd YEAR TRIAL No. TR7 DURING RABI 2011-12.

GRAIN YIELD (kg/ha) AT 15% MOISTURE

Sl No	PEDIGREE	LUDH	R	KARN	R	PANT	R	DELH	R	KANP	R	ZN 2 MEAN	R	BAHR	R	DHOL	R
1	BIO 265	3101	9	6715	7	10059	7	4417	9	8533	1	7431	6	6229	5	6393	4
2	DMRNH 2	4965	5	6549	8	8404	10	5003	4	8460	2	7104	9	5988	7	6040	6
3	115-08-01	2588	10	6851	6	10106	6	4664	6	8031	7	7413	7	6470	3	6387	5
4	35A019	5219	4	6980	5	11753	1	5328	2	7687	10	7937	2	7073	1	6665	3
5	PRO 379	6147	1	6333	10	11299	3	6170	1	8048	6	7962	1	5767	10	7440	1
	CHECKS																
6	HM 11	3955	8	7239	3	8565	9	5135	3	8183	5	7281	8	5817	9	5238	10
7	HM 10	4922	6	6402	9	8938	8	4843	5	8010	8	7048	10	6405	4	5595	7
8	SEED TECH 2324	5609	2	7920	1	11158	4	4419	8	7926	9	7856	3	7042	2	7062	2
9	BULAND	5227	3	7870	2	10484	5	4510	7	8374	3	7809	4	6068	6	5296	9
10	BIO 9681	4407	7	7012	4	11379	2	3773	10	8270	4	7609	5	5971	8	5349	8
	Location Mean	4614		6987		10214		4826		8152		7545		6283		6146	
	Mean Stand	68		114		90		72		106		95		79		84	
	C.D. (5%)	1707		437		2457		1292		516		1176		963		1295	
	C.V. (%)	21.48		3.63		13.97		15.54		3.67		-		8.9		12.23	
	F (Prob)	0		0		0		0.006		0.117				0		0.013	
	Plot Size	9.6		18		18		18		14.4		-		14.4		14.4	
	AGRONOMY DATA																
	Sowing Date	28-11		21-11		30-11		22-11		18-12		-		27-11		30-11	
	Harvest Date	7-06		25-05		2-06		3-05		15-05		-		15-05		29-05	
	Irrigation Nos	18		6		6		11		5		-		4		-	
	Ferilizer Appli	70		150		120		150		120		-		150		150	
	Ferilizer Appli	24		60		60		75		60		-		75		70	
	Ferilizer Appli	12		60		40		75		60		-		60		50	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : LUDH 21.5 %: GOSS 21.0 %: GODH 20.5 %

TABLE No.4 (CONT...)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								ZN 3 MEAN		ARBH		KARI		KOLH	
		VARA	R	RANC	R	BHUB	R	GOSS	R		R		R		R		R
1	BIO 265	10879	3	9932	4	6897	2	5902	3	8066	3	6878	4	9553	6	5613	3
2	DMRNH 2	8616	10	9886	5	6194	9	4486	6	7345	8	6112	5	7063	9	4449	7
3	115-08-01	9486	6	8781	8	6308	8	3438	10	7486	7	7060	3	6977	10	4817	6
4	35A019	12356	2	11111	3	6953	1	5880	4	8832	2	7287	2	11252	3	7006	1
5	PRO 379	14693	1	13164	1	6817	4	6737	1	9576	1	8391	1	9367	7	5846	2
	CHECKS																
6	HM 11	8892	9	8432	9	6616	5	4135	7	6999	10	5308	10	7249	8	3633	9
7	HM 10	10355	4	9721	6	6143	10	3443	9	7644	6	5885	7	9807	4	3300	10
8	SEED TECH 2324	10354	5	7924	10	6611	6	3812	8	7799	5	5801	8	11803	1	5192	5
9	BULAND	9244	8	9428	7	6568	7	6075	2	7321	9	5442	9	11269	2	3680	8
10	BIO 9681	9288	7	12734	2	6846	3	4693	5	8038	4	6039	6	9743	5	5474	4
	Location Mean	10416		10112		6595		4860		7910		6420		9408		4901	
	Mean Stand	106		34		96		82		80		60		86		77	
	C.D. (5%)	1163		2427		112		1762		1192		1568		1000		1251	
	C.V. (%)	6.48		13.93		0.99		21.04		-		14.18		6.17		14.82	
	F (Prob)	0		0.002		0		0.005				0.006		0		0	
	Plot Size	14.4		4.8		15.3		14.4		-		15		14.4		18	
	AGRONOMY DATA																
	Sowing Date	30-11		12-12		5-12		28-11		-		22-11		25-11		17-12	
	Harvest Date	8-05		4-06		19-04		28-05		-		29-04		28-03		15-05	
	Irrigation Nos	-		10		12		3		-		8		-		-	
	Ferilizer Appl.	150		120		120		80		-		150		-		120	
	Ferilizer Appl.	75		60		60		40		-		75		-		60	
	Ferilizer Appl.	60		40		60		40		-		37.5		-		40	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : LUDH 21.5 %: GOSS 21.0 %: GODH 20.5 %

TABLE No.4 (CONT...)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE MAND	R	COIM	R	VAGA	R	ZN 4 MEAN	R	BANS	R	GODH	R	ZN 5 MEAN	R	OV'L MEAN	R
1	BIO 265	7955	5	12231	2	7592	1	8304	3	8954	3	9912	3	8954	3	8052	3
2	DMRNH 2	7831	6	10926	7	6540	6	7154	9	5935	9	7646	7	5935	9	7125	9
3	115-08-01	7961	4	11103	5	5920	9	7306	7	5255	10	8565	5	5255	10	7261	7
4	35A019	7621	8	13250	1	6720	4	8856	1	9995	1	11046	2	9995	1	8690	1
5	PRO 379	7185	9	9897	10	6549	5	7872	5	8597	4	7783	6	8597	4	8473	2
	CHECKS																
6	HM 11	8789	2	10693	8	3564	10	6539	10	9782	2	7359	8	9782	2	7071	10
7	HM 10	7728	7	10468	9	6128	8	7219	8	6205	7	8723	4	6205	7	7246	8
8	SEED TECH 2324	9173	1	11911	3	6869	3	8458	2	6054	8	11149	1	6054	8	7951	4
9	BULAND	7087	10	10996	6	7207	2	7613	6	7825	5	5035	10	7825	5	7584	6
10	BIO 9681	8543	3	11422	4	6403	7	7937	4	6581	6	6733	9	6581	6	7802	5
	Location Mean	7987		11290		6349		7726		7518		8395		7518		7725	
	Mean Stand	96		95		70		81		71		86		71		84	
	C.D. (5%)	2477		571		1279		1358		1375		2960		1375		1262	
	C.V. (%)	18		2.94		11.69		-		10.62		20.47		-		-	
	F (Prob)	0.774		0		0				0		0					
	Plot Size	16.8		14.4		14.4		-		14.4		14.4		-		-	
	AGRONOMY DATA																
	Sowing Date	7-12		5-01		29-12		-		5-12		26-11		-		-	
	Harvest Date	7-05		4-05		7-05		-		10-05		23-04		-		-	
	Irrigation Nos	12		10		11		-		6		9		-		-	
	Ferilizer Appl.	150		150		200		-		150		150		-		-	
	Ferilizer Appl.	75		75		75		-		80		60		-		-	
	Ferilizer Appl.	40		75		75		-		-		-		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : LUDH 21.5 %: GOSS 21.0 %: GODH 20.5 %

TABLE No.4 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE HM 11

Sl No	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 MEAN
1	BIO 265	-	-	17.4	-	4.3	2.1	7.1	22.1	22.3	17.8	4.2	42.7	15.2
2	DMRNH 2	25.5	-	-	-	3.4	-	2.9	15.3	-	17.2	-	8.5	4.9
3	115-08-01	-	-	18	-	-	1.8	11.2	21.9	6.7	4.1	-	-	7
4	35A019	32	-	37.2	3.8	-	9	21.6	27.2	39	31.8	5.1	42.2	26.2
5	PRO 379	55.4	-	31.9	20.2	-	9.4	-	42.1	65.2	56.1	3	62.9	36.8
	CHECKS													
6	HM 11	-	-	-	-	-	-	-	-	-	-	-	-	-
7	HM 10	24.5	-	4.4	-	-	-	10.1	6.8	16.5	15.3	-	-	9.2
8	SEED TECH 2324	41.8	9.4	30.3	-	-	7.9	21.1	34.8	16.4	-	-	-	11.4
9	BULAND	32.2	8.7	22.4	-	2.3	7.3	4.3	1.1	4	11.8	-	46.9	4.6
10	BIO 9681	11.4	-	32.9	-	1.1	4.5	2.7	2.1	4.5	51	3.5	13.5	14.8

GRAIN YIELD % SUPERIORITY OVER THE HM 11

Sl No	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	BIO 265	29.6	31.8	54.5	-	14.4	113	27	-	34.7	-	13.9
2	DMRNH 2	15.2	-	22.5	-	2.2	83.5	9.4	-	3.9	-	0.8
3	115-08-01	33	-	32.6	-	3.8	66.1	11.7	-	16.4	-	2.7
4	35A019	37.3	55.2	92.8	-	23.9	88.6	35.4	2.2	50.1	2.2	22.9
5	PRO 379	58.1	29.2	60.9	-	-	83.8	20.4	-	5.8	-	19.8
	CHECKS											
6	HM 11	-	-	-	-	-	-	-	-	-	-	-
7	HM 10	10.9	35.3	-	-	-	72	10.4	-	18.5	-	2.5
8	SEED TECH 2324	9.3	62.8	42.9	4.4	11.4	92.8	29.3	-	51.5	-	12.4
9	BULAND	2.5	55.5	1.3	-	2.8	102.2	16.4	-	-	-	7.3
10	BIO 9681	13.8	34.4	50.7	-	6.8	79.7	21.4	-	-	-	10.3

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : LUDH 21.5 %: GOSS 21.0 %: GODH 20.5 %

TABLE No.4 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE HM 10

Sl No	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 MEAN
1	BIO 265	-	4.9	12.5	-	6.5	5.4	-	14.3	5.1	2.2	12.3	71.4	5.5
2	DMRNH 2	0.9	2.3	-	3.3	5.6	0.8	-	8	-	1.7	0.8	30.3	-
3	115-08-01	-	7	13.1	-	0.3	5.2	1	14.2	-	-	2.7	-	-
4	35A019	6	9	31.5	10	-	12.6	10.4	19.1	19.3	14.3	13.2	70.8	15.5
5	PRO 379	24.9	-	26.4	27.4	0.5	13	-	33	41.9	35.4	11	95.7	25.3
	CHECKS													
6	HM 11	-	13.1	-	6	2.2	3.3	-	-	-	-	7.7	20.1	-
7	HM 10	-	-	-	-	-	-	-	-	-	-	-	-	-
8	SEED TECH 2324	14	23.7	24.8	-	-	11.5	10	26.2	-	-	7.6	10.7	2
9	BULAND	6.2	22.9	17.3	-	4.5	10.8	-	-	-	-	6.9	76.4	-
10	BIO 9681	-	9.5	27.3	-	3.2	8	-	-	-	31	11.5	36.3	5.2

GRAIN YIELD % SUPERIORITY OVER THE HM 10

Sl No	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	BIO 265	16.9	-	70.1	2.9	16.8	23.9	15	44.3	13.6	44.3	11.1
2	DMRNH 2	3.9	-	34.8	1.3	4.4	6.7	-	-	-	-	-
3	115-08-01	20	-	46	3	6.1	-	1.2	-	-	-	0.2
4	35A019	23.8	14.7	112.3	-	26.6	9.7	22.7	61.1	26.6	61.1	19.9
5	PRO 379	42.6	-	77.2	-	-	6.9	9	38.5	-	38.5	16.9
	CHECKS											
6	HM 11	-	-	10.1	13.7	2.1	-	-	57.7	-	57.7	-
7	HM 10	-	-	-	-	-	-	-	-	-	-	-
8	SEED TECH 2324	-	20.4	57.3	18.7	13.8	12.1	17.2	-	27.8	-	9.7
9	BULAND	-	14.9	11.5	-	5	17.6	5.5	26.1	-	26.1	4.7
10	BIO 9681	2.6	-	65.9	10.5	9.1	4.5	9.9	6.1	-	6.1	7.7

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : LUDH 21.5 %: GOSS 21.0 %: GODH 20.5 %

TABLE No.4 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE SEED TECH 2324

Sl No	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 MEAN
1	BIO 265	-	-	-	-	7.7	-	-	-	5.1	25.3	4.3	54.8	3.4
2	DMRNH 2	-	-	-	13.2	6.7	-	-	-	-	24.8	-	17.7	-
3	115-08-01	-	-	-	5.5	1.3	-	-	-	-	10.8	-	-	-
4	35A019	-	-	5.3	20.6	-	1	0.4	-	19.3	40.2	5.2	54.2	13.2
5	PRO 379	9.6	-	1.3	39.6	1.5	1.4	-	5.4	41.9	66.1	3.1	76.7	22.8
	CHECKS													
6	HM 11	-	-	-	16.2	3.2	-	-	-	-	6.4	0.1	8.5	-
7	HM 10	-	-	-	9.6	1.1	-	-	-	0	22.7	-	-	-
8	SEED TECH 2324	-	-	-	-	-	-	-	-	-	-	-	-	-
9	BULAND	-	-	-	2	5.6	-	-	-	-	19	-	59.4	-
10	BIO 9681	-	-	2	-	4.3	-	-	-	-	60.7	3.6	23.1	3.1

GRAIN YIELD % SUPERIORITY OVER THE SEED TECH 2324

Sl No	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	BIO 265	18.6	-	8.1	-	2.7	10.5	-	47.9	-	47.9	1.3
2	DMRNH 2	5.4	-	-	-	-	-	-	-	-	-	-
3	115-08-01	21.7	-	-	-	-	-	-	-	-	-	-
4	35A019	25.6	-	34.9	-	11.2	-	4.7	65.1	-	65.1	9.3
5	PRO 379	44.7	-	12.6	-	-	-	-	42	-	42	6.6
	CHECKS											
6	HM 11	-	-	-	-	-	-	-	61.6	-	61.6	-
7	HM 10	1.5	-	-	-	-	-	-	2.5	-	2.5	-
8	SEED TECH 2324	-	-	-	-	-	-	-	-	-	-	-
9	BULAND	-	-	-	-	-	4.9	-	29.3	-	29.3	-
10	BIO 9681	4.1	-	5.4	-	-	-	-	8.7	-	8.7	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : LUDH 21.5 %: GOSS 21.0 %: GODH 20.5 %

TABLE No.4 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE BULAND

Sl No	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 MEAN
1	BIO 265	-	-	-	-	1.9	-	2.6	20.7	17.7	5.3	5	-	10.2
2	DMRNH 2	-	-	-	10.9	1	-	-	14.1	-	4.9	-	-	0.3
3	115-08-01	-	-	-	3.4	-	-	6.6	20.6	2.6	-	-	-	2.3
4	35A019	-	-	12.1	18.2	-	1.6	16.6	25.9	33.7	17.9	5.9	-	20.6
5	PRO 379	17.6	-	7.8	36.8	-	2	-	40.5	58.9	39.6	3.8	10.9	30.8
	CHECKS													
6	HM 11	-	-	-	13.9	-	-	-	-	-	-	0.7	-	-
7	HM 10	-	-	-	7.4	-	-	5.5	5.6	12	3.1	-	-	4.4
8	SEED TECH 2324	7.3	0.6	6.4	-	-	0.6	16.1	33.3	12	-	0.7	-	6.5
9	BULAND	-	-	-	-	-	-	-	-	-	-	-	-	-
10	BIO 9681	-	-	8.5	-	-	-	-	1	0.5	35.1	4.2	-	9.8

GRAIN YIELD % SUPERIORITY OVER THE BULAND

Sl No	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	BIO 265	26.4	-	52.6	12.2	11.2	5.3	9.1	14.4	96.9	14.4	6.2
2	DMRNH 2	12.3	-	20.9	10.5	-	-	-	-	51.9	-	-
3	115-08-01	29.7	-	30.9	12.3	1	-	-	-	70.1	-	-
4	35A019	33.9	-	90.4	7.5	20.5	-	16.3	27.7	119.4	27.7	14.6
5	PRO 379	54.2	-	58.9	1.4	-	-	3.4	9.9	54.6	9.9	11.7
	CHECKS											
6	HM 11	-	-	-	24	-	-	-	25	46.2	25	-
7	HM 10	8.1	-	-	9	-	-	-	-	73.3	-	-
8	SEED TECH 2324	6.6	4.7	41.1	29.4	8.3	-	11.1	-	121.5	-	4.8
9	BULAND	-	-	-	-	-	-	-	-	-	-	-
10	BIO 9681	11	-	48.8	20.5	3.9	-	4.3	-	33.7	-	2.9

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : LUDH 21.5 %: GOSS 21.0 %: GODH 20.5 %

TABLE No.4 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE BIO 9681

Sl No	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 MEAN
1	BIO 265	-	-	-	17.1	3.2	-	4.3	19.5	17.1	-	0.7	25.8	0.3
2	DMRNH 2	12.6	-	-	32.6	2.3	-	0.3	12.9	-	-	-	-	-
3	115-08-01	-	-	-	23.6	-	-	8.4	19.4	2.1	-	-	-	-
4	35A019	18.4	-	3.3	41.2	-	4.3	18.5	24.6	33	-	1.6	25.3	9.9
5	PRO 379	39.5	-	-	63.5	-	4.7	-	39.1	58.2	3.4	-	43.6	19.1
	CHECKS													
6	HM 11	-	3.2	-	36.1	-	-	-	-	-	-	-	-	-
7	HM 10	11.7	-	-	28.4	-	-	7.3	4.6	11.5	-	-	-	-
8	SEED TECH 2324	27.3	12.9	-	17.1	-	3.2	17.9	32	11.5	-	-	-	-
9	BULAND	18.6	12.2	-	19.5	1.3	2.6	1.6	-	-	-	-	29.5	-
10	BIO 9681	-	-	-	-	-	-	-	-	-	-	-	-	-

GRAIN YIELD % SUPERIORITY OVER THE BIO 9681

Sl No	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	BIO 265	13.9	-	2.6	-	7.1	18.6	4.6	36	47.2	36	3.2
2	DMRNH 2	1.2	-	-	-	-	2.2	-	-	13.6	-	-
3	115-08-01	16.9	-	-	-	-	-	-	-	27.2	-	-
4	35A019	20.7	15.5	28	-	16	5	11.6	51.9	64	51.9	11.4
5	PRO 379	39	-	6.8	-	-	2.3	-	30.6	15.6	30.6	8.6
	CHECKS											
6	HM 11	-	-	-	2.9	-	-	-	48.6	9.3	48.6	-
7	HM 10	-	0.6	-	-	-	-	-	-	29.5	-	-
8	SEED TECH 2324	-	21.1	-	7.4	4.3	7.3	6.6	-	65.6	-	1.9
9	BULAND	-	15.7	-	-	-	12.6	-	18.9	-	18.9	-
10	BIO 9681	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : LUDH 21.5 %: GOSS 21.0 %: GODH 20.5 %

Table No.4 (Cont..)

MOISTURE % AT HARVEST

S.No.	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	BIO 265	22.5	26.8	25.4	14.5	13.0	20.4	27.8	16.7	30.0	21.3	20.1	22.1	23.0
2	DMRNH 2	23.4	27.2	22.2	20.3	14.3	21.5	26.0	15.2	28.4	21.9	18.3	23.0	22.1
3	115-08-01	23.8	28.1	25.9	14.7	14.3	21.3	27.4	15.4	31.2	21.8	21.3	24.6	23.6
4	35A019	22.7	26.7	22.3	12.1	16.0	19.9	28.1	15.2	29.3	22.6	20.9	22.0	23.0
5	PRO 379	22.0	28.1	25.6	19.8	17.7	22.6	27.9	18.1	29.2	23.4	21.0	23.3	23.8
	CHECKS													
6	HM 11	20.1	26.1	24.4	15.9	15.3	20.3	27.9	15.7	30.5	22.8	21.6	24.9	23.9
7	HM 10	19.4	26.1	22.0	13.1	15.3	19.2	27.1	15.1	30.8	21.7	19.0	20.4	22.3
8	SEED TECH 2324	25.1	27.7	26.2	13.2	14.0	21.2	25.5	15.1	30.1	18.4	18.4	20.1	21.3
9	BULAND	25.4	26.6	23.8	22.4	14.3	22.5	28.8	15.5	29.4	20.2	17.8	22.1	22.3
10	BIO 9681	22.3	25.7	22.5	12.0	15.7	19.6	26.8	14.7	30.0	19.3	21.4	22.5	22.4
	Loc. Mean	22.6	26.9	24.0	15.8	15.0	20.9	27.3	15.6	29.9	21.3	20.0	22.5	22.8
	C.D. (5%)	1.94	1.31	2.70	4.97	2.29	2.56	1.41	1.28	2.61	0.98	-	2.38	1.23
	C.V. (%)	5.00	2.85	6.55	18.33	8.90	9.58	3.00	4.76	5.10	2.67	-	6.17	4.63
	F (Prob)	0.00	0.01	0.01	0.00	0.03	0.13	0.00	0.00	0.52	0.00	-	0.01	0.00

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	BIO 265	18.8	16.8	13.7	15.0	23.8	19.2	17.9	17.9	12.9	15.4	19.9
2	DMRNH 2	17.4	16.9	13.5	15.1	25.2	18.0	17.7	19.0	13.3	16.2	19.9
3	115-08-01	18.2	17.2	13.4	15.0	27.9	17.0	18.1	18.3	12.6	15.4	20.4
4	35A019	20.0	14.8	13.6	15.4	24.6	18.2	17.8	17.9	12.6	15.2	19.7
5	PRO 379	22.2	15.3	14.4	16.9	27.2	21.2	19.5	18.8	12.4	15.6	21.3
	CHECKS											
6	HM 11	16.6	15.5	13.0	15.8	25.8	16.7	17.2	20.0	14.2	17.1	20.1
7	HM 10	16.8	17.3	12.8	14.9	21.6	16.9	16.7	17.6	12.1	14.8	18.9
8	SEED TECH 2324	16.2	15.4	14.4	15.7	27.3	18.9	18.0	18.6	13.2	15.9	19.6
9	BULAND	16.8	14.9	13.3	15.0	22.3	16.4	16.4	17.2	11.7	14.4	19.7
10	BIO 9681	15.4	15.9	13.2	16.5	25.2	18.4	17.4	17.9	11.8	14.9	19.3
	Loc. Mean	17.8	16.0	13.5	15.5	25.1	18.1	17.7	18.3	12.7	15.5	19.9
	C.D. (5%)	1.66	-	0.51	1.30	2.37	1.69	1.47	1.12	2.08	0.64	0.94
	C.V. (%)	5.43	-	2.22	4.90	5.51	5.47	7.14	3.55	9.57	1.83	7.34
	F (Prob)	0.00	0.00	0.00	0.04	0.00	0.00	0.01	0.00	0.36	0.00	0.00

Table No.4 (Cont..)

GRAIN SHELLING %

S.No.	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	BIO 265	82.3	84.9	88.6	82.9	74.5	82.6	78.1	84.5	78.4	84.8	77.0	78.2	80.2
2	DMRNH 2	80.7	78.9	84.9	81.0	76.0	80.3	77.3	81.4	81.3	84.2	76.5	79.5	80.0
3	115-08-01	72.7	82.0	87.5	79.3	75.3	79.4	76.8	82.6	76.3	84.9	79.7	78.0	79.7
4	35A019	79.3	84.6	87.4	84.8	74.3	82.1	84.0	85.2	82.0	86.4	81.3	77.1	82.7
5	PRO 379	76.6	86.6	85.3	81.6	75.0	81.0	72.3	85.5	77.3	85.7	79.4	80.4	80.1
	CHECKS													
6	HM 11	80.0	81.1	82.0	80.0	74.0	79.4	78.0	81.3	79.0	85.6	78.1	81.5	80.6
7	HM 10	81.4	83.2	82.8	81.9	74.3	80.7	73.5	82.8	80.7	81.9	78.4	71.3	78.1
8	SEED TECH 2324	76.9	85.1	86.5	84.6	74.3	81.5	77.9	83.4	76.5	53.0	77.3	77.5	74.3
9	BULAND	76.4	81.7	80.4	85.4	75.3	79.8	72.0	83.9	79.3	79.8	77.2	76.0	78.0
10	BIO 9681	84.0	87.0	86.6	85.5	74.0	83.4	78.6	83.9	79.0	85.3	78.9	77.1	80.4
	Loc. Mean	79.0	83.5	85.2	82.7	74.7	81.0	76.8	83.4	79.0	81.2	78.4	77.7	79.4
	C.D. (5%) -		0.88	1.81	2.02	2.60	2.97	1.83	1.65	1.66	17.27	-	6.83	5.21
	C.V. (%) -		0.61	1.24	1.42	2.03	2.85	1.38	1.15	1.23	12.40	-	5.13	5.64
	F (Prob)	0.00	0.00	0.00	0.00	0.79	0.11	0.00	0.00	0.00	0.02	0.00	0.24	0.18

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	BIO 265	83.9	76.0	82.0	81.8	77.1	77.0	79.6	73.6	81.5	77.5	80.4
2	DMRNH 2	83.3	72.7	81.0	81.6	76.5	77.5	78.7	72.1	83.0	77.6	79.4
3	115-08-01	83.6	74.0	77.5	81.8	76.9	76.5	78.4	69.8	73.6	71.7	78.4
4	35A019	86.3	81.3	82.9	81.5	81.0	83.0	82.7	73.0	84.5	78.7	82.1
5	PRO 379	80.9	70.3	79.6	83.1	70.9	73.3	76.3	70.1	78.7	74.4	78.6
	CHECKS											
6	HM 11	81.8	71.3	77.7	81.8	76.4	73.0	77.0	74.5	77.7	76.1	78.7
7	HM 10	81.3	72.3	80.1	82.7	75.0	77.0	78.1	72.8	81.0	76.9	78.6
8	SEED TECH 2324	84.0	76.7	82.0	80.8	78.6	78.5	80.1	71.6	85.9	78.8	78.5
9	BULAND	79.5	71.7	82.9	81.4	74.9	77.0	77.9	70.0	78.5	74.2	78.1
10	BIO 9681	84.4	78.0	83.5	83.2	77.9	82.0	81.5	71.6	84.8	78.2	81.3
	Loc. Mean	82.9	74.4	80.9	81.9	76.5	77.5	79.0	71.9	80.9	76.4	79.4
	C.D. (5%)	0.94	4.24	1.12	1.41	1.41	1.97	2.04	1.64	7.68	5.79	2.03
	C.V. (%)	0.66	3.32	0.80	1.00	1.07	1.48	2.22	1.33	5.54	3.35	3.98
	F (Prob)	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.07	0.24	0.00

Table No.4 (Cont..)

STAND AT HARVEST ('000/ha)

S.No.	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	BIO 265	77.1	64.4	56.7	43.5	74.0	63.1	54.9	66.0	78.5	70.8	64.3	55.3	66.9
2	DMRNH 2	62.8	60.9	42.0	32.0	73.6	54.3	48.1	50.0	73.6	61.1	61.4	50.5	58.9
3	115-08-01	70.1	64.4	47.2	28.9	73.4	56.8	62.0	47.5	73.4	77.1	63.0	39.6	64.6
4	35A019	77.4	64.4	56.7	52.2	73.1	64.8	64.1	70.8	77.8	77.8	64.9	78.0	71.1
5	PRO 379	55.6	61.5	42.4	35.6	74.8	54.0	39.6	42.8	47.5	83.3	62.5	38.9	55.1
	CHECKS													
6	HM 11	46.2	62.0	34.3	31.9	73.4	49.5	60.4	51.4	71.8	68.1	61.0	46.8	62.5
7	HM 10	83.7	63.1	56.1	40.4	73.6	63.4	55.8	65.3	78.0	60.4	63.0	66.9	64.5
8	SEED TECH 2324	84.7	64.6	56.7	48.7	75.2	66.0	50.5	63.9	81.0	72.9	64.7	66.0	66.6
9	BULAND	73.3	63.7	56.7	53.7	74.3	64.3	60.6	68.3	78.7	63.2	63.4	66.9	66.8
10	BIO 9681	75.3	62.4	50.2	33.1	73.1	58.8	53.5	60.6	73.6	67.7	62.1	58.3	63.5
	Loc. Mean	70.6	63.2	49.9	40.0	73.9	59.5	55.0	58.7	73.4	70.2	63.0	56.7	64.1
	C.D. (5%)	11.62	1.35	6.72	11.85	2.23	7.70	4.41	13.70	4.70	14.47	2.19	27.05	9.16
	C.V. (%)	9.59	1.25	7.85	17.26	1.76	10.09	4.68	13.62	3.73	12.01	2.02	27.80	11.15
	F (Prob)	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.05	0.02	0.10	0.07

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	BIO 265	46.4	69.4	46.9	56.3	66.0	59.7	57.5	52.5	74.5	63.5	62.3
2	DMRNH 2	39.8	45.4	39.4	56.9	65.5	53.7	50.1	47.5	50.9	49.2	53.6
3	115-08-01	33.1	52.3	34.8	56.9	65.7	41.9	47.5	44.4	51.4	47.9	54.9
4	35A019	50.0	67.4	58.5	57.7	66.2	57.4	59.5	52.8	79.9	66.3	65.0
5	PRO 379	34.0	57.9	32.2	57.1	65.5	54.9	50.3	48.6	52.1	50.3	52.7
	CHECKS											
6	HM 11	29.1	37.7	28.0	56.7	66.0	13.7	38.5	53.2	30.3	41.8	48.6
7	HM 10	38.4	69.0	40.7	58.9	65.7	49.1	53.7	46.5	54.4	50.5	59.0
8	SEED TECH 2324	50.0	71.3	60.9	56.3	66.0	50.9	59.2	51.2	82.2	66.7	64.0
9	BULAND	48.2	71.1	53.1	57.5	65.5	59.0	59.1	48.6	73.1	60.9	62.9
10	BIO 9681	34.0	52.8	35.7	55.6	65.7	47.9	48.6	47.0	48.6	47.8	55.5
	Loc. Mean	40.3	59.4	43.0	57.0	65.8	48.8	52.4	49.2	59.7	54.5	57.8
	C.D. (5%)	11.56	5.92	8.14	3.18	0.91	3.94	8.13	3.47	5.53	25.79	4.68
	C.V. (%)	16.72	5.81	11.03	3.25	0.81	4.70	13.34	4.10	5.39	20.92	12.27
	F (Prob)	0.01	0.00	0.00	0.67	0.78	0.00	0.00	0.00	0.00	0.38	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : GOSSAIGAON 27.8%: Mean!ZN 5 20.9%

Table No.4 (Cont..)

DAYS TO 50% POLLEN SHED

S.No.	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	BIO 265	145.3	138.7	130.3	135.7	95.5	129.1	129.3	122.3	113.0	118.3	71.7	124.0	113.1
2	DMRNH 2	144.7	137.3	127.3	133.0	97.3	127.9	125.3	119.7	109.0	115.7	70.7	124.7	110.8
3	115-08-01	145.7	137.0	129.3	132.7	100.3	129.0	126.7	119.7	111.0	117.0	70.7	122.0	111.2
4	35A019	144.7	138.3	129.0	135.0	96.7	128.7	127.7	123.0	112.7	115.3	72.0	122.7	112.2
5	PRO 379	141.7	131.3	126.0	130.7	96.3	125.2	124.7	117.3	106.7	113.3	71.0	123.0	109.3
	CHECKS													
6	HM 11	145.0	137.3	130.3	132.7	100.3	129.1	126.0	119.3	113.0	119.7	73.3	124.3	112.6
7	HM 10	139.0	137.3	127.7	131.0	101.3	127.3	122.3	118.0	109.0	112.3	71.3	121.7	109.1
8	SEED TECH 2324	141.0	136.0	127.7	133.0	99.7	127.5	128.3	118.3	109.3	114.0	70.7	121.7	110.4
9	BULAND	145.0	140.3	131.3	138.7	95.7	130.2	130.3	114.3	115.0	119.7	73.3	127.0	113.3
10	BIO 9681	143.0	138.0	128.3	131.3	96.0	127.3	126.7	118.3	109.0	117.0	70.7	125.0	111.1
	Loc. Mean	143.5	137.2	128.7	133.4	97.9	128.1	126.7	119.0	110.8	116.2	71.5	123.6	111.3
	C.D. (5%)	2.87	1.48	2.53	1.49	3.65	2.44	1.19	9.86	1.37	2.21	1.33	4.95	2.07
	C.V. (%)	1.17	0.63	1.14	0.65	2.17	1.48	0.55	4.83	0.72	1.11	1.09	2.33	1.60
	F (Prob)	0.00	0.00	0.01	0.00	0.01	0.02	0.00	0.82	0.00	0.00	0.00	0.43	0.00

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	BIO 265	79.0	66.7	80.3	67.0	58.7	61.7	68.9	96.7	80.3	88.5	100.8
2	DMRNH 2	78.0	60.3	75.7	69.3	56.7	60.3	66.7	93.7	74.7	84.2	98.6
3	115-08-01	78.7	65.3	76.7	67.0	57.7	62.3	67.9	96.7	77.7	87.2	99.7
4	35A019	80.7	66.3	81.7	67.3	59.0	61.7	69.4	95.7	79.3	87.5	100.5
5	PRO 379	77.3	60.3	75.7	69.3	55.3	59.7	66.3	93.0	73.7	83.3	97.2
	CHECKS											
6	HM 11	80.3	59.7	79.7	66.3	58.0	60.0	67.3	97.0	80.3	88.7	100.1
7	HM 10	78.0	59.3	76.7	68.0	56.7	59.7	66.4	95.7	74.3	85.0	97.9
8	SEED TECH 2324	78.0	59.3	75.3	68.3	57.3	60.7	66.5	97.0	75.7	86.3	98.5
9	BULAND	83.7	71.0	82.7	69.3	60.7	64.3	71.9	95.3	83.0	89.2	102.1
10	BIO 9681	77.0	60.3	75.7	69.3	55.7	60.0	66.3	93.3	74.0	83.7	98.4
	Loc. Mean	79.1	62.9	78.0	68.1	57.6	61.0	67.8	95.4	77.3	86.4	99.4
	C.D. (5%)	1.22	1.27	2.67	2.93	0.85	1.99	1.99	2.55	2.70	4.37	1.14
	C.V. (%)	0.90	1.18	1.99	2.50	0.87	1.90	2.52	1.56	2.04	2.24	1.79
	F (Prob)	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.02	0.00	0.09	0.00

Table No.4 (Cont..)

DAYS TO 50% SILKING

S.No.	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	BIO 265	149.7	141.7	133.0	137.3	101.5	132.6	131.3	124.0	118.3	122.7	73.7	131.7	116.9
2	DMRNH 2	148.0	140.0	130.7	135.0	103.3	131.4	127.0	121.7	113.7	121.0	72.7	132.7	114.8
3	115-08-01	148.0	140.0	132.0	135.3	107.3	132.5	128.7	120.3	115.3	121.7	72.7	131.3	115.0
4	35A019	147.7	141.0	131.3	136.0	103.7	131.9	129.7	125.0	115.7	121.0	74.0	130.7	116.0
5	PRO 379	146.0	134.3	129.7	136.0	103.3	129.9	126.7	119.3	110.7	118.7	73.7	132.3	113.6
	CHECKS													
6	HM 11	149.3	140.0	132.7	134.7	106.7	132.7	128.0	121.7	117.3	124.7	75.7	131.3	116.4
7	HM 10	143.7	140.7	129.7	133.7	108.0	131.1	124.3	120.0	113.3	117.0	74.3	131.0	113.3
8	SEED TECH 2324	146.7	138.3	131.0	134.7	106.0	131.3	130.3	120.3	114.0	118.7	72.7	131.3	114.6
9	BULAND	149.0	142.7	134.3	141.7	102.3	134.0	132.3	116.3	118.7	124.7	75.3	133.3	116.8
10	BIO 9681	145.3	140.7	131.3	134.3	103.0	130.9	128.7	120.3	113.0	121.5	73.0	131.0	114.6
	Loc. Mean	147.3	139.9	131.6	135.9	104.5	131.8	128.7	120.9	115.0	121.2	73.8	131.7	115.2
	C.D. (5%)	4.22	1.77	2.51	3.58	3.60	2.46	1.11	9.97	1.40	2.30	1.45	2.36	2.10
	C.V. (%)	1.67	0.74	1.11	1.53	2.01	1.45	0.50	4.81	0.71	1.11	1.15	1.04	1.57
	F (Prob)	0.13	0.00	0.02	0.01	0.01	0.09	0.00	0.84	0.00	0.00	0.00	0.39	0.01

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	BIO 265	81.7	71.0	81.3	68.7	60.3	64.3	71.2	101.3	85.3	93.3	104.1
2	DMRNH 2	79.3	64.3	76.7	73.3	58.7	63.3	69.3	98.0	79.0	88.5	102.0
3	115-08-01	80.0	68.0	77.7	68.7	59.7	65.7	69.9	100.7	82.0	91.3	102.9
4	35A019	81.7	70.3	82.7	69.0	61.0	64.7	71.6	100.0	84.0	92.0	103.6
5	PRO 379	77.3	63.7	76.7	71.7	57.3	62.7	68.2	97.7	78.3	88.0	100.8
	CHECKS											
6	HM 11	82.0	64.7	80.7	68.3	60.3	61.7	69.6	101.3	85.0	93.2	103.5
7	HM 10	78.0	64.7	77.7	70.0	58.7	62.0	68.5	100.0	79.0	89.5	101.4
8	SEED TECH 2324	78.7	64.0	76.3	70.0	59.3	63.3	68.6	101.0	80.0	90.5	101.9
9	BULAND	84.3	74.0	83.7	72.3	62.7	66.0	73.8	99.7	88.7	94.2	105.4
10	BIO 9681	77.7	63.3	76.7	71.3	57.7	62.7	68.2	97.7	79.0	88.3	101.5
	Loc. Mean	80.1	66.8	79.0	70.3	59.6	63.6	69.9	99.7	82.0	90.9	102.7
	C.D. (5%)	1.71	1.35	2.67	4.36	0.92	1.93	2.04	2.88	2.52	4.79	1.15
	C.V. (%)	1.24	1.18	1.97	3.62	0.90	1.77	2.51	1.68	1.79	2.33	1.75
	F (Prob)	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.07	0.00	0.12	0.00

Table No.4 (Cont..)

DAYS TO 75% DRY HUSK

S.No.	PEDIGREE	LUDH	KARN	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	BIO 265	181.7	180.0	186.0	134.5	170.5	165.3	159.3	155.7	161.0	118.0	183.0	157.1
2	DMRNH 2	182.0	178.0	182.7	137.7	170.1	163.7	160.0	152.0	161.0	116.7	183.0	156.1
3	115-08-01	179.0	179.0	181.0	142.0	170.3	162.7	155.7	152.3	162.0	116.7	183.0	155.4
4	35A019	178.3	177.3	180.7	138.7	168.8	162.3	157.7	152.0	159.7	118.7	183.0	155.6
5	PRO 379	176.0	176.0	180.3	139.7	168.0	162.7	158.7	150.0	157.3	116.0	183.0	154.6
	CHECKS												
6	HM 11	181.7	178.0	180.7	141.7	170.5	163.7	159.7	158.0	164.7	118.3	183.0	157.9
7	HM 10	178.3	179.0	179.7	141.0	169.5	162.3	155.0	155.3	157.3	116.0	183.0	154.8
8	SEED TECH 2324	176.3	176.7	182.3	141.3	169.2	165.7	157.3	150.7	157.3	116.3	183.0	155.1
9	BULAND	177.0	179.3	186.0	138.3	170.2	165.3	158.7	154.3	165.0	119.3	183.0	157.6
10	BIO 9681	176.7	177.0	182.0	137.3	168.3	162.7	158.7	150.0	160.5	117.0	183.0	155.3
	Loc. Mean	178.7	178.0	182.1	139.2	169.5	163.6	158.1	153.0	160.6	117.3	183.0	155.9
	C.D. (5%)	3.84	1.96	3.88	4.08	3.16	1.02	3.11	1.23	2.85	1.50-		1.86
	C.V. (%)	1.25	0.64	1.24	1.71	1.29	0.36	1.15	0.47	1.03	0.75-		1.03
	F (Prob)	0.02	0.01	0.02	0.02	0.67	0.00	0.05	0.00	0.00	0.00-		0.00

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	BIO 265	132.7	106.7	124.3	115.3	107.0	109.3	115.9	155.0	123.3	139.2	144.3
2	DMRNH 2	127.3	100.3	119.7	113.7	104.7	108.7	112.4	143.3	119.7	131.5	141.9
3	115-08-01	129.7	105.3	120.7	116.7	106.0	110.3	114.8	155.7	122.7	139.2	143.4
4	35A019	127.3	106.3	125.7	115.0	107.0	108.7	115.0	143.7	123.3	133.5	142.5
5	PRO 379	125.3	100.3	119.7	115.3	104.3	107.3	112.1	143.3	124.7	134.0	141.1
	CHECKS											
6	HM 11	129.7	99.7	123.7	114.0	106.0	104.3	112.9	146.3	123.3	134.8	143.1
7	HM 10	129.0	99.3	120.7	116.0	105.3	104.0	112.4	146.0	122.7	134.3	141.7
8	SEED TECH	125.7	99.3	119.0	115.0	105.3	105.3	111.6	141.3	122.3	131.8	141.1
9	BULAND	127.3	111.0	126.7	116.0	108.0	110.3	116.6	141.7	123.7	132.7	143.9
10	BIO 9681	124.7	100.3	119.7	117.3	103.3	106.7	112.0	143.3	122.0	132.7	141.2
	Loc. Mean	127.9	102.9	122.0	115.4	105.7	107.5	113.6	146.0	122.8	134.4	142.4
	C.D. (5%)	3.42	1.27	2.76	4.59	0.88	2.15	2.32	3.79	3.22	8.34	1.44
	C.V. (%)	1.56	0.72	1.32	2.32	0.49	1.17	1.76	1.52	1.53	2.75	1.53
	F (Prob)	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00	0.22	0.44	0.00

Table No.4 (Cont..)

PLANT HEIGHT(cm)

S.No.	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	BIO 265	145.3	163.3	202.7	149.0	185.5	169.2	189.0	180.3	199.0	194.6	221.5	130.3	185.8
2	DMRNH 2	161.0	151.7	214.7	164.0	185.3	175.3	184.3	174.3	183.0	188.3	219.5	115.0	177.4
3	115-08-01	129.0	153.3	186.7	130.3	185.0	156.9	184.7	160.8	173.0	179.3	201.9	100.7	166.7
4	35A019	174.7	181.7	256.0	193.3	181.7	197.5	246.7	193.5	231.5	204.7	209.5	151.0	206.2
5	PRO 379	130.0	150.0	205.3	131.0	186.7	160.6	171.3	161.7	172.0	170.7	198.5	111.3	164.3
	CHECKS													
6	HM 11	157.3	160.0	223.7	171.3	196.7	181.8	211.7	174.8	206.0	200.9	229.1	131.3	192.3
7	HM 10	166.0	150.0	222.7	167.7	185.7	178.4	201.7	177.5	179.0	188.3	213.7	136.0	182.7
8	SEED TECH 2324	160.7	171.7	192.7	131.3	185.3	168.3	180.7	164.0	167.5	180.5	198.4	109.2	166.7
9	BULAND	169.0	163.3	212.0	172.7	190.3	181.5	198.3	177.7	187.5	206.3	212.8	134.3	186.2
10	BIO 9681	171.0	171.7	219.0	136.7	200.3	179.7	206.7	179.5	184.5	199.7	216.5	122.3	184.9
	Loc. Mean	156.4	161.7	213.5	154.7	188.3	174.9	197.5	174.4	188.3	191.3	212.1	124.2	181.3
	C.D. (5%)	28.83	21.83	19.55	17.87	12.39	15.61	19.80	18.54	14.20	17.18	13.62	30.70	10.24
	C.V. (%)	10.74	7.87	5.34	6.73	3.84	6.96	5.84	6.20	4.40	5.24	3.74	14.42	4.86
	F (Prob)	0.03	0.08	0.00	0.00	0.11	0.00	0.00	0.04	0.00	0.00	0.00	0.08	0.00

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	BIO 265	182.0	258.3	180.0	219.3	208.3	169.8	203.0	253.7	212.3	233.0	191.8
2	DMRNH 2	185.0	261.7	185.0	241.0	204.9	166.4	207.3	253.9	218.3	236.1	192.5
3	115-08-01	162.5	253.3	171.7	224.7	210.9	158.6	196.9	222.2	193.7	208.0	178.0
4	35A019	203.0	291.7	200.0	218.3	231.6	190.4	222.5	290.5	240.0	265.3	215.2
5	PRO 379	174.0	226.7	173.3	229.7	188.5	126.4	186.4	247.1	203.3	225.2	176.7
	CHECKS											
6	HM 11	196.5	273.3	176.7	226.7	197.1	178.0	208.1	277.1	239.3	258.2	201.5
7	HM 10	180.0	243.3	175.0	239.0	199.5	173.8	201.8	253.8	223.3	238.6	193.5
8	SEED TECH 2324	165.0	263.3	183.3	237.3	199.8	139.3	198.0	217.1	194.0	205.6	181.1
9	BULAND	201.0	291.7	153.3	226.0	217.8	183.9	212.3	256.2	249.7	252.9	200.2
10	BIO 9681	182.5	245.0	185.0	246.0	213.0	173.2	207.5	217.1	211.0	214.0	193.7
	Loc. Mean	183.2	260.8	178.3	230.8	207.1	166.0	204.4	248.9	218.5	233.7	192.4
	C.D. (5%)	11.38	16.76	35.78	31.91	10.59	13.36	14.97	7.88	15.84	23.86	7.44
	C.V. (%)	3.62	3.75	11.70	8.06	2.98	4.69	6.30	1.85	4.23	4.51	6.03
	F (Prob)	0.00	0.00	0.48	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No.4 (Cont..)

EAR HEIGHT(cm)

S.No.	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	BIO 265	55.3	80.0	81.3	75.0	63.0	74.8	80.3	82.8	74.5	92.5	98.3	45.8	79.1
2	DMRNH 2	54.3	61.7	69.7	77.0	63.7	68.0	84.3	80.2	82.5	89.0	103.1	47.3	81.1
3	115-08-01	44.0	74.3	76.3	66.7	63.0	70.1	85.7	84.3	93.0	96.0	102.3	34.5	82.6
4	35A019	69.0	88.3	111.0	108.3	61.3	92.2	99.3	97.8	122.0	100.0	101.8	67.3	98.1
5	PRO 379	58.7	58.3	81.3	70.7	63.3	68.4	77.7	80.0	82.0	87.0	96.3	45.7	78.1
	CHECKS													
6	HM 11	56.3	78.0	88.7	87.0	69.0	80.7	95.0	81.3	99.5	94.6	110.8	59.0	90.0
7	HM 10	71.3	70.7	88.0	83.0	67.0	77.2	88.7	82.5	87.0	89.5	100.6	46.8	82.5
8	SEED TECH 2324	93.7	96.7	84.0	78.3	63.0	80.5	86.3	94.0	91.5	98.4	116.1	53.5	90.0
9	BULAND	69.0	71.7	91.7	99.7	69.3	83.1	90.7	83.5	102.5	109.9	112.2	49.0	91.3
10	BIO 9681	68.3	76.7	89.7	69.3	71.0	76.7	92.0	84.0	86.0	94.7	104.1	48.0	84.8
	Loc. Mean	64.0	75.6	86.2	81.5	65.4	77.2	88.0	85.1	92.1	95.2	104.6	49.7	85.8
	C.D. (5%)	22.17	18.33	13.10	11.03	4.59	12.45	15.37	16.05	8.51	11.39	10.84	15.57	6.94
	C.V. (%)	20.19	14.12	8.86	7.89	4.10	11.12	10.18	11.00	5.39	6.98	6.04	18.27	6.96
	F (Prob)	0.01	0.01	0.00	0.00	0.00	0.01	0.19	0.34	0.00	0.02	0.02	0.03	0.00

EAR HEIGHT(cm)

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	BIO 265	69.0	100.0	101.7	115.0	110.6	83.9	96.7	140.7	96.7	118.7	88.4
2	DMRNH 2	76.0	105.0	100.0	137.7	108.1	79.1	101.0	117.0	101.3	109.2	87.9
3	115-08-01	71.5	105.0	96.7	107.3	109.0	78.7	94.7	114.1	99.7	106.9	86.6
4	35A019	93.0	133.3	113.3	108.3	123.1	100.8	112.0	147.3	131.3	139.3	106.0
5	PRO 379	79.0	95.0	96.7	125.3	99.9	74.3	95.0	108.9	109.0	109.0	85.0
	CHECKS											
6	HM 11	77.5	121.7	103.3	114.0	105.0	78.3	100.0	165.3	121.3	143.3	97.2
7	HM 10	78.0	103.3	95.0	124.3	100.7	77.9	96.5	115.3	102.7	109.0	88.9
8	SEED TECH 2324	78.0	118.3	118.3	129.0	112.1	85.1	106.8	107.2	103.7	105.4	95.2
9	BULAND	100.5	136.7	96.7	123.0	125.3	100.8	113.8	160.5	138.3	149.4	103.4
10	BIO 9681	77.5	90.0	100.0	131.3	111.9	79.0	98.3	115.4	99.7	107.6	90.0
	Loc. Mean	80.0	110.8	102.2	121.5	110.6	83.8	101.5	129.2	110.4	119.8	92.9
	C.D. (5%)	6.68	19.31	27.62	29.90	6.98	9.97	10.03	11.33	13.48	23.59	5.72
	C.V. (%)	4.87	10.16	15.76	14.34	3.68	6.93	8.50	5.11	7.12	8.71	9.35
	F (Prob)	0.00	0.00	0.71	0.47	0.00	0.00	0.00	0.00	0.00	0.01	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : LUDHIANA 20.2%

Table No.5

PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS AT LUDHIANA, KARNAL, PANTNAGAR, DELHI, KANPUR, BAHRAICH, DHOLI, VARANASI, RANCHI, BHUBANESHWAR, GOSSAIGAON, ARBHAVI, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, VAGARAI, BANSWARA, GODHARA IN IET TRIAL No. TRQPM1 DURING RABI 2011-12.

		GRAIN YIELD (kg/ha) AT 15% MOISTURE													
Sl No	PEDIGREE	LUDH	R	PANT	R	DELH	R	KANP	R	ZN 2 MEAN	R	BAHR	R	DHOL	R
1	VEHQ 11-1	4208	3	5074	5	2034	2	11848	1	11848	1	7286	7	4382	7
2	VEHQ 11-2	-		6474	2	1806	6	11669	2	11669	2	7918	5	5471	4
	CHECKS														
3	HQPM 1	4827	1	5016	6	1895	4	10552	4	10552	4	8652	2	5015	6
4	HQPM 5	4383	2	6802	1	1965	3	9764	8	9764	8	7603	6	5760	3
5	HQPM 7	-		5452	3	1881	5	10451	5	10451	5	7976	4	5804	2
6	SEED TECH 2324	2195	4	127	8	2131	1	10397	6	10397	6	8460	3	5397	5
7	PMH 1	-		4754	7	1800	7	10134	7	10134	7	8787	1	3869	8
8	BIO 9681	961	5	5188	4	1326	8	10843	3	10843	3	5350	8	6055	1
	Location Mean	3315		4861		1855		10707		9722		7754		5219	
	Mean Stand	23		32		16		74		72		58		37	
	C.D. (5%)	5495		2499		892		1029		1029		2632		1290	
	C.V. (%)	85.85		29.15		27.27		5.45		-		19.25		14.01	
	F (Prob)	0.006		0		0		0.004				0.162		0.001	
	Plot Size	4.8		12		12		9.6		-		9.6		9.6	
	AGRONOMY DATA														
	Sowing Date	29-11		30-11		22-11		18-12		-		27-11		30-11	
	Harvest Date	8-06		6-06		2-05		15-05		-		12-05		31-05	
	Irrigation Nos	18		6		11		5		-		4		-	
	Ferilizer Appli	70		120		150		120		-		150		150	
	Ferilizer Appli	24		60		75		60		-		75		70	
	Ferilizer Appli	12		40		75		60		-		60		50	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : LUDH 85.9 %: PANT 29.1 %: DELH 27.3 %: GOSS 42.0 %: KOLH 25.2 %: VAGA 40.8 %: GODH 26.9 % KARN(only one replication)

Table No.5 (Cont..)

GRAIN YIELD (kg/ha) AT 15% MOISTURE

Sl No	PEDIGREE	VARA	R	RANC	R	BHUB	R	GOSS	R	ZN 3 MEAN	R	ARBH	R	KARI	R	KOLH	R
1	VEHQ 11-1	8798	3	3791	3	5659	3	3127	5	5983	4	5494	4	5953	7	3832	1
2	VEHQ 11-2	4448	7	-		5635	5	2008	7	5868	6	4285	6	6284	6	2397	8
	CHECKS																
3	HQPM 1	8130	4	3513	4	5887	1	4085	2	6240	3	4227	7	5434	8	3069	4
4	HQPM 5	4621	6	-		5425	8	3087	6	5852	7	4562	5	6994	4	3395	3
5	HQPM 7	7947	5	-		5438	7	4642	1	6791	2	5818	2	7246	3	3058	5
6	SEED TECH 2324	11598	1	5385	1	5825	2	3268	3	7333	1	7047	1	8928	1	2902	6
7	PMH 1	1835	8	-		5551	6	-		5010	8	4165	8	6489	5	2598	7
8	BIO 9681	8964	2	3885	2	5643	4	3258	4	5979	5	5648	3	7853	2	3454	2
	Location Mean	7042		4144		5633		3354		5958		5156		6898		3088	
	Mean Stand	51		34		63		29		49		28		29		25	
	C.D. (5%)	1986		651		136		2530		1339		1616		1961		1372	
	C.V. (%)	15.99		7.49		1.37		41.98		-		17.77		16.11		25.19	
	F (Prob)	0		0		0.005		0.062				0		0		0	
	Plot Size	9.6		9.6		10.2		9.6		-		12		9.6		12	
	AGRONOMY DATA																
	Sowing Date	3-12		12-12		6-12		25-11		-		22-11		25-11		17-12	
	Harvest Date	3-05		5-06		17-04		24-05		-		28-11		28-03		16-05	
	Irrigation Nos	-		10		12		3		-		8		-		-	
	Ferilizer Appli	150		120		120		80		-		150		-		120	
	Ferilizer Appli	75		60		60		40		-		75		-		60	
	Ferilizer Appli	60		40		60		40		-		37.5		-		60	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : LUDH 85.9 %: PANT 29.1 %: DELH 27.3 %: GOSS 42.0 %: KOLH 25.2 %: VAGA 40.8 %: GODH 26.9 %

Table No.5 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						ZN 4						ZN 5		OV'L	
		MAND	R	COIM	R	VAGA	R	MEAN	R	BANS	R	GODH	R	MEAN	R	MEAN	R
1	VEHQ 11-1	5103	6	12183	3	4709	3	7183	3	5605	4	5340	1	5605	4	6918	3
2	VEHQ 11-2	4887	8	12270	2	2484	8	6931	5	4160	8	3417	5	4160	8	6703	5
	CHECKS																
3	HQPM 1	5709	2	11957	4	5236	2	6832	6	4540	7	3219	6	4540	7	6692	6
4	HQPM 5	5589	3	11234	6	3087	6	7095	4	5655	3	3001	7	5655	3	6721	4
5	HQPM 7	5093	7	11426	5	3416	5	7395	2	6155	2	3823	4	6155	2	7335	2
6	SEED TECH 2324	5775	1	13036	1	6019	1	8696	1	6254	1	4278	3	6254	1	8009	1
7	PMH 1	5295	5	6582	8	3025	7	5633	8	4881	6	2670	8	4881	6	5759	8
8	BIO 9681	5417	4	8061	7	4450	4	6745	7	5192	5	4808	2	5192	5	6628	7
	Location Mean	5358		10843		4053		7064		5305		3820		5305		6900	
	Mean Stand	65		63		27		46		27		22		27		50	
	C.D. (5%)	722		1130		2916		1357		1717		2515		1717		1352	
	C.V. (%)	7.64		5.91		40.79		-		18.35		26.91		-		-	
	F (Prob)	0.391		0		0				0.094		0					
	Plot Size	14		9.6		9.6		-		4.8		9.6		-		-	
	AGRONOMY DATA																
	Sowing Date	7-12		5-01		29-12		-		5-12		26-11		-		-	
	Harvest Date	7-05		5-05		4-05		-		10-05		27-04		-		-	
	Irrigation Nos	-		10		10		-		6		9		-		-	
	Ferilizer Appli	150		150		200		-		150		150		-		-	
	Ferilizer Appli	75		75		75		-		80		60		-		-	
	Ferilizer Appli	40		75		75		-		-		-		-		-	

Table No.5 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE HQPM 1

Sl No	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 MEAN
1	VEHQ 11-1	-	-	1.2	7.3	12.3	12.3	-	-	8.2	7.9	-	-	-
2	VEHQ 11-2	-	-	29.1	-	10.6	10.6	-	9.1	-	-	-	-	-
	CHECKS													
3	HQPM 1	-	-	-	-	-	-	-	-	-	-	-	-	-
4	HQPM 5	-	-	35.6	3.7	-	-	-	14.8	-	-	-	-	-
5	HQPM 7	-	-	8.7	-	-	-	-	15.7	-	-	-	13.6	8.8
6	SEED TECH 2324	-	-	-	12.5	-	-	-	7.6	42.6	53.3	-	-	17.5
7	PMH 1	-	-	-	-	-	-	1.6	-	-	-	-	-	-
8	BIO 9681	-	-	3.4	-	2.8	2.8	-	20.7	10.3	10.6	-	-	-

GRAIN YIELD % SUPERIORITY OVER THE HQPM 1

Sl No	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	VEHQ 11-1	30	9.6	24.9	-	1.9	-	5.1	23.4	65.9	23.4	3.4
2	VEHQ 11-2	1.4	15.7	-	-	2.6	-	1.5	-	6.2	-	0.2
	CHECKS											
3	HQPM 1	-	-	-	-	-	-	-	-	-	-	-
4	HQPM 5	7.9	28.7	10.6	-	-	-	3.8	24.6	-	24.6	0.4
5	HQPM 7	37.6	33.3	-	-	-	-	8.3	35.6	18.8	35.6	9.6
6	SEED TECH 2324	66.7	64.3	-	1.1	9	14.9	27.3	37.7	32.9	37.7	19.7
7	PMH 1	-	19.4	-	-	-	-	-	7.5	-	7.5	-
8	BIO 9681	33.6	44.5	12.6	-	-	-	-	14.3	49.4	14.3	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : LUDH 85.9 %: PANT 29.1 %: DELH 27.3 %: GOSS 42.0 %: KOLH 25.2 %: VAGA 40.8 %: GODH 26.9 %

Table No.5 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE HQPM 5

Sl No	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 MEAN
1	VEHQ 11-1	-	-	-	3.5	21.3	21.3	-	-	90.4	-	4.3	1.3	2.2
2	VEHQ 11-2	-	-	-	-	19.5	19.5	4.1	-	-	-	3.9	-	0.3
	CHECKS													
3	HQPM 1	10.1	-	-	-	8.1	8.1	13.8	-	76	-	8.5	32.3	6.6
4	HQPM 5	-	-	-	-	-	-	-	-	-	-	-	-	-
5	HQPM 7	-	-	-	-	7	7	4.9	0.8	72	-	0.2	50.4	16
6	SEED TECH 2324	-	-	-	8.5	6.5	6.5	11.3	-	151	-	7.4	5.9	25.3
7	PMH 1	-	-	-	-	3.8	3.8	15.6	-	-	-	2.3	-	-
8	BIO 9681	-	-	-	-	11	11	-	5.1	94	-	4	5.5	2.2

GRAIN YIELD % SUPERIORITY OVER THE HQPM 5

Sl No	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	VEHQ 11-1	20.4	-	12.9	-	8.4	52.5	1.2	-	77.9	-	2.9
2	VEHQ 11-2	-	-	-	-	9.2	-	-	-	13.9	-	-
	CHECKS											
3	HQPM 1	-	-	-	2.2	6.4	69.6	-	-	7.2	-	-
4	HQPM 5	-	-	-	-	-	-	-	-	-	-	-
5	HQPM 7	27.5	3.6	-	-	1.7	10.7	4.2	8.8	27.4	8.8	9.1
6	SEED TECH 2324	54.5	27.7	-	3.3	16	94.9	22.6	10.6	42.6	10.6	19.2
7	PMH 1	-	-	-	-	-	-	-	-	-	-	-
8	BIO 9681	23.8	12.3	1.8	-	-	44.1	-	-	60.2	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : LUDH 85.9 %: PANT 29.1 %: DELH 27.3 %: GOSS 42.0 %: KOLH 25.2 %: VAGA 40.8 %: GODH 26.9 %

TABLE No.5 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE HQPM 7

Sl No	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 MEAN
1	VEHQ 11-1	-	-	-	8.1	13.4	13.4	-	-	10.7	-	4.1	-	-
2	VEHQ 11-2	-	-	18.7	-	11.6	11.6	-	-	-	-	3.6	-	-
	CHECKS													
3	HQPM 1	-	-	-	0.7	1	1	8.5	-	2.3	-	8.3	-	-
4	HQPM 5	-	-	24.8	4.5	-	-	-	-	-	-	-	-	-
5	HQPM 7	-	-	-	-	-	-	-	-	-	-	-	-	-
6	SEED TECH 2324	-	-	-	13.3	-	-	6.1	-	45.9	-	7.1	-	8
7	PMH 1	-	-	-	-	-	-	10.2	-	-	-	2.1	-	-
8	BIO 9681	-	-	-	-	3.7	3.7	-	4.3	12.8	-	3.8	-	-

GRAIN YIELD % SUPERIORITY OVER THE HQPM 7

Sl No	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	VEHQ 11-1	-	-	25.3	0.2	6.6	37.8	-	-	39.7	-	-
2	VEHQ 11-2	-	-	-	-	7.4	-	-	-	-	-	-
	CHECKS											
3	HQPM 1	-	-	0.3	12.1	4.6	53.3	-	-	-	-	-
4	HQPM 5	-	-	11	9.7	-	-	-	-	-	-	-
5	HQPM 7	-	-	-	-	-	-	-	-	-	-	-
6	SEED TECH 2324	21.1	23.2	-	13.4	14.1	76.2	17.6	1.6	11.9	1.6	9.2
7	PMH 1	-	-	-	4	-	-	-	-	-	-	-
8	BIO 9681	-	8.4	12.9	6.4	-	30.2	-	-	25.8	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : LUDH 85.9 %: PANT 29.1 %: DELH 27.3 %: GOSS 42.0 %: KOLH 25.2 %: VAGA 40.8 %: GODH 26.9 %

Table No.5 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE SEED TECH 2324

Sl No	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 MEAN
1	VEHQ 11-1	91.7	-	3901.1	-	14	14	-	-	-	-	-	-	-
2	VEHQ 11-2	-	-	5005.3	-	12.2	12.2	-	1.4	-	-	-	-	-
	CHECKS													
3	HQPM 1	119.9	-	3855.2	-	1.5	1.5	2.3	-	-	-	1.1	25	-
4	HQPM 5	99.7	-	5263.5	-	-	-	-	6.7	-	-	-	-	-
5	HQPM 7	-	-	4199.3	-	0.5	0.5	-	7.5	-	-	-	42.1	-
6	SEED TECH 2324	-	-	-	-	-	-	-	-	-	-	-	-	-
7	PMH 1	-	-	3648.6	-	-	-	3.9	-	-	-	-	-	-
8	BIO 9681	-	-	3990.9	-	4.3	4.3	-	12.2	-	-	-	-	-

GRAIN YIELD % SUPERIORITY OVER THE SEED TECH 2324

Sl No	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	VEHQ 11-1	-	-	32	-	-	-	-	-	24.8	-	-
2	VEHQ 11-2	-	-	-	-	-	-	-	-	-	-	-
	CHECKS											
3	HQPM 1	-	-	5.7	-	-	-	-	-	-	-	-
4	HQPM 5	-	-	17	-	-	-	-	-	-	-	-
5	HQPM 7	-	-	5.4	-	-	-	-	-	-	-	-
6	SEED TECH 2324	-	-	-	-	-	-	-	-	-	-	-
7	PMH 1	-	-	-	-	-	-	-	-	-	-	-
8	BIO 9681	-	-	19	-	-	-	-	-	12.4	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : LUDH 85.9 %: PANT 29.1 %: DELH 27.3 %: GOSS 42.0 %: KOLH 25.2 %: VAGA 40.8 %: GODH 26.9 %

Table No.5 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE PMH 1

Sl No	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 MEAN
1	VEHQ 11-1	-	-	6.7	13	16.9	16.9	-	13.3	379.5	-	2	-	19.4
2	VEHQ 11-2	-	-	36.2	0.4	15.1	15.1	-	41.4	142.4	-	1.5	-	17.1
	CHECKS													
3	HQPM 1	-	-	5.5	5.3	4.1	4.1	-	29.6	343.1	-	6.1	-	24.5
4	HQPM 5	-	-	43.1	9.2	-	-	-	48.9	151.8	-	-	-	16.8
5	HQPM 7	-	-	14.7	4.5	3.1	3.1	-	50	333.1	-	-	-	35.5
6	SEED TECH 2324	-	-	-	18.4	2.6	2.6	-	39.5	532.1	-	4.9	-	46.4
7	PMH 1	-	-	-	-	-	-	-	-	-	-	-	-	-
8	BIO 9681	-	-	9.1	-	7	7	-	56.5	388.5	-	1.7	-	19.3

GRAIN YIELD % SUPERIORITY OVER THE PMH 1

Sl No	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	VEHQ 11-1	31.9	-	47.5	-	85.1	55.7	27.5	14.8	100	14.8	20.1
2	VEHQ 11-2	2.9	-	-	-	86.4	-	23.1	-	28	-	16.4
	CHECKS											
3	HQPM 1	1.5	-	18.1	7.8	81.6	73.1	21.3	-	20.5	-	16.2
4	HQPM 5	9.5	7.8	30.6	5.6	70.7	2.1	25.9	15.9	12.4	15.9	16.7
5	HQPM 7	39.7	11.7	17.7	-	73.6	12.9	31.3	26.1	43.2	26.1	27.4
6	SEED TECH 2324	69.2	37.6	11.7	9.1	98	99	54.4	28.1	60.2	28.1	39.1
7	PMH 1	-	-	-	-	-	-	-	-	-	-	-
8	BIO 9681	35.6	21	32.9	2.3	22.5	47.1	19.7	6.4	80.1	6.4	15.1

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : LUDH 85.9 %: PANT 29.1 %: DELH 27.3 %: GOSS 42.0 %: KOLH 25.2 %: VAGA 40.8 %: GODH 26.9 %

Table No.5 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE BIO 9681

Sl No	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 MEAN
1	VEHQ 11-1	337.8	-	-	53.4	9.3	9.3	36.2	-	-	-	0.3	-	0.1
2	VEHQ 11-2	-	-	24.8	36.2	7.6	7.6	48	-	-	-	-	-	-
	CHECKS													
3	HQPM 1	402.1	-	-	42.9	-	-	61.7	-	-	-	4.3	25.4	4.4
4	HQPM 5	356	-	31.1	48.1	-	-	42.1	-	-	-	-	-	-
5	HQPM 7	-	-	5.1	41.8	-	-	49.1	-	-	-	-	42.5	13.6
6	SEED TECH 2324	128.3	-	-	60.7	-	-	58.1	-	29.4	38.6	3.2	0.3	22.6
7	PMH 1	-	-	-	35.7	-	-	64.2	-	-	-	-	-	-
8	BIO 9681	-	-	-	-	-	-	-	-	-	-	-	-	-

GRAIN YIELD % SUPERIORITY OVER THE BIO 9681

Sl No	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	VEHQ 11-1	-	-	10.9	-	51.1	5.8	6.5	8	11.1	8	4.4
2	VEHQ 11-2	-	-	-	-	52.2	-	2.8	-	-	-	1.1
	CHECKS											
3	HQPM 1	-	-	-	5.4	48.3	17.7	1.3	-	-	-	1
4	HQPM 5	-	-	-	3.2	39.4	-	5.2	8.9	-	8.9	1.4
5	HQPM 7	3	-	-	-	41.7	-	9.6	18.6	-	18.6	10.7
6	SEED TECH 2324	24.8	13.7	-	6.6	61.7	35.3	28.9	20.5	-	20.5	20.8
7	PMH 1	-	-	-	-	-	-	-	-	-	-	-
8	BIO 9681	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : LUDH 85.9 %: PANT 29.1 %: DELH 27.3 %: GOSS 42.0 %: KOLH 25.2 %: VAGA 40.8 %: GODH 26.9 %

Table No.5 (Cont..)

MOISTURE % AT HARVEST

S.No.	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	VEHQ 11-1	28.6	27.4	20.5	17.1	12.0	21.1	26.0	18.4	24.0	20.2	21.9	22.6	22.2
2	VEHQ 11-2	-	30.0	19.6	14.5	12.7	19.2	26.2	19.1	30.3	-	21.0	21.9	23.7
	CHECKS													
3	HQPM 1	29.2	29.2	19.3	13.8	14.3	21.1	26.1	16.7	27.1	22.7	20.1	21.9	22.4
4	HQPM 5	28.6	26.9	20.7	14.8	17.0	21.6	27.0	16.7	27.4	-	20.3	22.0	22.7
5	HQPM 7	-	29.6	20.6	15.1	17.3	20.6	26.9	16.4	25.0	-	20.3	22.1	22.1
6	SEED TECH 2324	27.6	27.2	20.8	15.3	15.3	21.2	28.5	16.8	26.0	20.8	21.9	22.9	22.8
7	PMH 1	-	30.0	18.4	14.7	13.7	19.2	26.7	18.5	27.3	-	20.0	-	23.1
8	BIO 9681	26.8	26.6	19.8	13.2	14.7	20.2	28.4	16.1	25.4	21.7	21.5	19.9	22.2
	Loc. Mean	28.1	28.3	19.9	14.8	14.6	20.5	27.0	17.3	26.5	21.3	20.9	21.9	22.6
	C.D. (5%)	1.86	1.70	2.15	2.51	1.69	3.13	0.60	0.92	1.99	4.24-		1.41	1.41
	C.V. (%)	2.77	3.43	6.16	9.68	6.59	11.78	1.28	3.03	4.28	7.03-		3.38	5.30
	F (Prob)	0.03	0.00	0.29	0.14	0.00	0.63	0.00	0.00	0.00	0.28-		0.01	0.31

MOISTURE % AT HARVEST

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	VEHQ 11-1	16.9	14.8	14.5	15.5	23.9	16.2	17.0	16.2	12.8	14.5	19.4
2	VEHQ 11-2	20.6	16.3	14.4	16.1	26.6	19.3	18.9	16.9	12.7	14.8	19.9
	CHECKS											
3	HQPM 1	17.3	15.4	14.3	15.3	23.3	18.8	17.4	16.8	13.3	15.1	19.7
4	HQPM 5	17.0	16.2	15.2	16.2	26.1	19.5	18.3	16.7	11.5	14.1	20.0
5	HQPM 7	16.3	15.3	13.6	16.1	20.3	18.0	16.6	17.8	14.2	16.0	19.1
6	SEED TECH 2324	20.0	15.2	14.1	15.3	27.1	20.1	18.6	17.1	11.2	14.2	20.2
7	PMH 1	15.8	15.7	13.5	16.7	23.8	19.2	17.4	16.4	12.4	14.4	18.9
8	BIO 9681	14.1	14.7	13.8	15.3	23.4	14.7	16.0	16.6	12.1	14.3	18.9
	Loc. Mean	17.2	15.5	14.1	15.8	24.3	18.2	17.5	16.8	12.5	14.7	19.5
	C.D. (5%)	1.64	0.00	0.58	0.63	2.55	1.28	1.45	0.51-		1.49	1.07
	C.V. (%)	5.43	0.00	2.32	2.29	6.00	4.00	7.07	1.74-		4.29	8.53
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00-		0.19	0.11

Table No.5 (Cont..)

GRAIN SHELLING %

S.No.	PEDIGREE	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	VEHQ 11-1	88.8	83.0	84.2	73.5	82.4	76.3	86.6	79.4	82.2	77.6	73.4	79.2
2	VEHQ 11-2	87.3	85.9	77.7	74.3	81.3	74.0	86.9	75.5	-	78.7	66.7	76.3
	CHECKS												
3	HQPM 1	86.4	85.9	80.0	72.7	81.2	78.6	86.6	81.3	81.0	79.6	68.8	79.3
4	HQPM 5	86.8	81.3	80.9	74.0	80.7	76.4	85.2	76.8	-	76.5	71.7	77.3
5	HQPM 7	85.3	82.6	83.0	75.3	81.5	78.9	85.9	80.0	-	76.3	75.4	79.3
6	SEED TECH 2324	84.3	85.0	82.9	73.7	81.4	74.4	86.4	79.5	83.8	79.6	72.5	79.4
7	PMH 1	83.4	80.4	81.0	73.7	79.6	74.5	84.2	76.3	-	76.1	-	77.8
8	BIO 9681	81.9	88.2	83.4	72.7	81.5	44.7	86.4	82.5	84.0	77.9	79.1	75.8
	Loc. Mean	85.5	84.0	81.6	73.7	81.2	72.2	86.0	78.9	82.8	77.8	72.5	78.0
	C.D. (5%)	2.05	2.40	7.13	1.77	3.27	22.06	2.97	3.09	3.63	0.00	9.09	6.43
	C.V. (%)	1.37	1.63	4.99	1.37	2.73	17.45	1.97	2.24	1.55	0.00	6.59	7.03
	F (Prob)	0.00	0.00	0.58	0.09	0.82	0.08	0.58	0.00	0.08	0.00	0.11	0.88

GRAIN SHELLING %

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	VEHQ 11-1	83.5	69.3	78.0	81.5	77.2	73.2	77.1	71.3	81.3	76.3	78.9
2	VEHQ 11-2	80.8	62.7	81.9	81.4	75.6	73.5	76.0	71.1	82.7	76.9	77.4
	CHECKS											
3	HQPM 1	83.8	66.7	73.1	82.6	78.1	75.8	76.7	71.4	80.8	76.1	78.5
4	HQPM 5	81.6	68.0	71.1	81.1	77.1	75.5	75.7	72.4	78.1	75.2	77.3
5	HQPM 7	81.3	69.7	74.7	79.9	77.3	76.5	76.5	73.3	77.8	75.6	78.4
6	SEED TECH 2324	85.1	72.7	83.8	83.3	79.8	76.5	80.2	73.5	87.7	80.6	80.2
7	PMH 1	68.2	67.7	84.8	78.6	75.3	78.5	75.5	69.5	78.0	73.7	76.9
8	BIO 9681	84.4	74.3	74.9	80.2	76.7	82.0	78.7	75.2	84.4	79.8	78.5
	Loc. Mean	81.1	68.9	77.8	81.1	77.1	76.4	77.1	72.2	81.4	76.8	78.3
	C.D. (5%)	6.98	2.66	3.35	1.35	0.77	1.85	4.25	1.99-		5.15	2.56
	C.V. (%)	4.92	2.21	2.46	0.95	0.57	1.38	4.70	1.57-		2.84	4.96
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00-		0.15	0.23

Table No.5 (Cont..)

STAND AT HARVEST ('000/ha)

S.No.	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	VEHQ 11-1	42.4	56.7	37.5	13.1	76.0	58.4	64.6	42.7	66.0	33.3	60.8	22.9	50.4
2	VEHQ 11-2	-	62.5	12.2	4.6	77.8	70.1	56.6	27.4	26.4	1.0	62.1	13.5	36.8
	CHECKS													
3	HQPM 1	26.4	60.8	32.5	12.2	76.0	54.4	57.3	47.6	50.3	34.7	62.1	42.0	50.4
4	HQPM 5	20.8	59.2	15.8	4.2	77.8	52.6	65.3	29.2	63.5	3.5	62.4	25.3	40.1
5	HQPM 7	-	60.0	21.7	13.1	77.4	68.7	59.0	31.6	66.3	3.8	61.1	30.6	38.9
6	SEED TECH 2324	81.3	59.2	56.1	31.4	76.4	72.3	61.8	60.1	75.0	38.5	63.4	50.7	56.0
7	PMH 1	-	55.0	1.9	3.6	77.1	66.0	58.3	36.5	6.9	-	60.5	-	51.7
8	BIO 9681	70.8	58.3	36.7	24.7	77.8	69.0	58.0	36.8	69.8	33.0	61.8	27.1	47.4
	Loc. Mean	48.3	59.0	26.8	13.4	77.0	63.9	60.1	39.0	53.0	18.5	61.8	30.3	46.5
	C.D. (5%)	11.44-		9.58	7.45	2.19	23.07	7.49	10.05	24.90	3.23	2.89	20.73	14.92
	C.V. (%)	9.94-		20.41	31.85	1.63	20.60	7.11	14.73	26.81	9.98	2.67	35.97	21.83
	F (Prob)	0.00-		0.00	0.00	0.39	0.46	0.16	0.00	0.00	0.00	0.47	0.02	0.12

STAND AT HARVEST ('000/ha)

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	VEHQ 11-1	25.8	38.9	21.1	46.9	65.6	47.6	44.0	56.9	31.3	44.1	48.9
2	VEHQ 11-2	12.2	12.2	18.9	47.4	66.0	3.5	29.6	60.4	8.9	34.6	38.8
	CHECKS											
3	HQPM 1	24.7	35.1	19.7	47.9	66.7	54.5	44.8	50.7	36.5	43.6	48.3
4	HQPM 5	16.1	26.7	11.9	45.7	65.6	8.7	31.7	57.6	6.8	32.2	38.7
5	HQPM 7	24.4	29.5	11.9	46.9	66.0	8.3	32.5	56.9	11.5	34.2	40.3
6	SEED TECH 2324	51.1	56.3	45.0	46.1	65.6	53.8	53.4	56.9	49.0	53.0	58.1
7	PMH 1	4.7	8.7	20.0	46.4	63.5	3.8	28.5	53.5	3.6	28.6	40.6
8	BIO 9681	30.6	33.7	21.1	46.8	66.7	48.3	43.3	53.5	31.8	42.6	49.9
	Loc. Mean	23.7	30.1	21.2	46.8	65.7	28.6	38.5	55.8	22.4	39.1	45.4
	C.D. (5%)	9.22	4.18	4.78	2.62	0.55	4.96	14.65	7.45	9.20	30.05	7.80
	C.V. (%)	22.21	7.93	12.88	3.20	0.47	9.92	29.40	7.62	17.38	32.49	22.85
	F (Prob)	0.00	0.00	0.00	0.72	0.00	0.00	0.01	0.23	0.00	0.61	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : PANTNAGAR 20.4%: DELHI 31.9%: Mean!ZN 2 20.6%: VARANASI 26.8%: GOSSAIGAON 36.0%: Mean!ZN 3 21.8%: ARBHAVI 22.2%: Mean!ZN 4 29.4%: Mean!ZN 5 32.5%: Mean#OV'L 22.8%

Table No.5 (Cont..)

DAYS TO 50% POLLEN SHED

S.No.	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	VEHQ 11-1	143.0	138.0	131.3	135.3	97.0	128.9	125.3	120.0	112.7	114.3	73.3	117.0	110.4
2	VEHQ 11-2	-	145.0	134.3	137.5	96.7	128.4	127.7	122.3	116.3	-	71.7	118.3	111.3
	CHECKS													
3	HQPM 1	144.7	142.0	132.0	135.0	94.7	129.7	124.7	118.0	112.7	114.0	73.0	113.3	109.3
4	HQPM 5	143.3	140.0	132.3	135.5	97.0	129.6	129.7	118.3	115.7	-	74.0	116.7	110.9
5	HQPM 7	-	139.0	132.3	134.0	96.0	125.3	124.7	118.0	111.7	-	71.7	110.0	107.2
6	SEED TECH 2324	139.7	138.0	129.3	134.0	95.0	127.2	125.0	118.0	108.7	115.3	71.0	114.3	108.7
7	PMH 1	-	139.0	134.0	135.7	97.3	126.5	129.0	122.7	113.7	-	69.7	-	108.8
8	BIO 9681	137.3	137.0	131.0	133.3	99.7	127.7	126.7	118.3	109.3	112.3	71.3	111.0	108.2
	Loc. Mean	141.6	139.8	132.1	135.0	96.7	127.9	126.6	119.5	112.6	114.0	72.0	114.4	109.3
	C.D. (5%)	4.93-		1.69	2.06	3.35	5.29	1.23	4.38	2.34	3.26	2.18	6.40	2.66
	C.V. (%)	1.46-		0.73	0.87	1.98	3.19	0.56	2.09	1.19	1.01	1.73	2.94	2.08
	F (Prob)	0.01-		0.00	0.02	0.13	0.67	0.00	0.14	0.00	0.09	0.02	0.07	0.05

DAYS TO 50% POLLEN SHED

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	VEHQ 11-1	79.0	63.3	76.3	68.3	57.7	61.0	67.6	93.7	76.0	84.8	99.1
2	VEHQ 11-2	80.0	65.3	78.3	69.0	58.7	63.7	69.2	97.3	84.0	90.7	98.0
	CHECKS											
3	HQPM 1	79.3	62.3	78.7	71.0	57.7	62.3	68.6	96.7	76.5	86.6	99.4
4	HQPM 5	80.0	66.7	77.7	69.0	59.0	62.0	69.1	97.3	77.5	87.4	99.5
5	HQPM 7	78.0	62.0	76.3	67.0	58.0	61.0	67.1	99.0	75.5	87.3	95.0
6	SEED TECH 2324	78.0	62.3	76.7	67.5	57.3	61.0	67.1	94.0	75.0	84.5	97.9
7	PMH 1	77.3	67.3	77.0	70.0	58.0	64.0	68.9	94.7	76.0	85.3	95.3
8	BIO 9681	77.3	60.0	76.3	70.0	56.7	59.3	66.6	92.7	75.5	84.1	97.6
	Loc. Mean	78.6	63.7	77.2	69.0	57.9	61.8	68.0	95.7	77.0	86.3	97.7
	C.D. (5%)	3.10	4.12	2.66	3.53	1.25	2.54	1.38	1.11	2.49	4.85	4.00
	C.V. (%)	2.25	3.69	1.97	2.92	1.23	2.35	1.73	0.67	1.37	2.37	6.38
	F (Prob)	0.38	0.02	0.39	0.30	0.03	0.02	0.00	0.00	0.00	0.16	0.17

Table No.5 (Cont..)

DAYS TO 50% SILKING

S.No.	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	VEHQ 11-1	146.3	141.0	134.0	138.0	101.5	132.2	127.3	122.0	116.0	119.7	74.7	123.3	113.8
2	VEHQ 11-2	-	148.0	137.7	140.0	103.7	132.3	130.0	124.3	120.0	-	74.3	120.7	113.9
	CHECKS													
3	HQPM 1	148.3	146.0	134.7	136.7	101.0	133.3	126.7	120.3	117.0	119.0	75.0	122.3	113.4
4	HQPM 5	147.3	143.0	135.3	139.0	104.3	133.8	132.3	120.7	121.3	-	75.3	123.7	114.7
5	HQPM 7	-	142.0	135.3	135.7	103.0	129.0	126.7	120.0	115.0	-	73.7	116.3	110.3
6	SEED TECH 2324	142.7	140.0	132.0	135.3	101.7	130.3	126.0	120.0	79.3	120.3	72.7	125.3	107.3
7	PMH 1	-	142.0	136.7	138.0	104.3	130.3	131.0	124.7	117.0	-	72.3	-	111.3
8	BIO 9681	140.0	140.0	134.0	135.0	106.7	131.1	128.7	120.3	113.0	117.7	72.7	116.3	111.4
	Loc. Mean	144.9	142.8	135.0	137.2	103.3	131.5	128.6	121.5	112.3	119.2	73.8	121.1	112.0
	C.D. (5%)	4.43-		2.21	2.98	4.33	5.34	1.70	4.13	35.46	3.12	1.52	8.50	7.37
	C.V. (%)	1.28-		0.93	1.24	2.40	3.13	0.76	1.94	18.03	0.93	1.18	3.69	5.61
	F (Prob)	0.00-		0.00	0.02	0.18	0.59	0.00	0.13	0.30	0.11	0.00	0.16	0.51

DAYS TO 50% SILKING

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	VEHQ 11-1	79.3	66.3	77.3	70.7	59.7	63.7	69.5	97.7	85.5	91.6	102.3
2	VEHQ 11-2	81.3	68.7	79.3	71.7	60.7	66.7	71.4	102.0	88.5	95.3	101.0
	CHECKS											
3	HQPM 1	81.0	66.3	79.7	74.0	59.7	64.7	70.9	100.7	79.5	90.1	102.8
4	HQPM 5	81.7	69.7	78.7	71.0	61.0	65.0	71.2	100.7	82.0	91.3	102.9
5	HQPM 7	76.3	64.7	77.3	69.0	60.0	63.0	68.4	103.3	85.0	94.2	98.0
6	SEED TECH 2324	78.7	65.7	77.7	69.0	59.3	64.0	69.1	98.0	79.0	88.5	99.3
7	PMH 1	77.7	70.3	78.0	72.5	60.0	65.0	70.6	98.7	79.0	88.8	97.9
8	BIO 9681	78.3	64.0	77.3	71.5	58.7	61.7	68.6	96.0	80.0	88.0	100.6
	Loc. Mean	79.3	67.0	78.2	71.2	59.9	64.2	69.9	99.6	82.3	91.0	100.6
	C.D. (5%)	3.70	4.19	2.66	3.49	1.25	2.07	1.38	2.37	7.17	5.24	4.62
	C.V. (%)	2.67	3.58	1.94	2.80	1.19	1.84	1.68	1.36	3.69	2.44	7.15
	F (Prob)	0.07	0.05	0.39	0.11	0.03	0.01	0.00	0.00	0.10	0.09	0.18

Table No.5(Cont..)

DAYS TO 75% DRY HUSK

S.No.	PEDIGREE	LUDH	KARN	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	VEHQ 11-1	181.0	179.0	185.7	134.5	170.0	160.3	163.7	153.0	162.0	118.7	182.0	156.6
2	VEHQ 11-2	-	181.0	93.5	138.7	137.7	161.7	163.3	154.3	-	118.7	182.0	156.0
	CHECKS												
3	HQPM 1	181.0	181.0	184.7	136.7	170.8	159.7	163.3	150.0	158.3	119.7	182.0	155.5
4	HQPM 5	178.7	179.0	187.0	139.0	170.9	162.3	162.7	156.0	-	119.0	182.0	156.4
5	HQPM 7	-	181.0	183.7	136.7	167.1	161.3	161.7	155.7	-	117.7	182.0	155.7
6	SEED TECH 2324	178.0	176.0	183.3	134.0	167.8	163.3	160.3	151.0	159.3	116.7	182.0	155.4
7	PMH 1	-	181.0	186.0	137.0	168.0	164.7	164.0	155.0	-	117.0	-	150.2
8	BIO 9681	178.0	175.0	183.0	138.3	168.6	165.0	160.7	152.7	156.0	117.7	182.0	155.7
	Loc. Mean	179.3	179.1	173.4	136.9	165.1	162.3	162.5	153.5	158.9	118.1	182.0	155.2
	C.D. (5%)	1.34-		57.29	5.64	23.50	1.18	2.37	3.53	2.35	1.93-		5.84
	C.V. (%)	0.31-		18.87	2.35	9.68	0.41	0.83	1.31	0.52	0.93-		3.21
	F (Prob)	0.00-		0.04	0.48	0.11	0.00	0.03	0.02	0.00	0.06-		0.43

DAYS TO 75% DRY HUSK

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	VEHQ 11-1	132.7	98.3	116.3	115.7	105.7	108.7	112.9	141.0	125.5	133.3	142.4
2	VEHQ 11-2	128.7	100.3	118.3	116.0	106.7	112.0	113.7	144.0	127.0	135.5	134.1
	CHECKS											
3	HQPM 1	134.3	97.3	118.7	116.0	105.7	110.3	113.7	142.0	116.0	129.0	142.0
4	HQPM 5	131.0	101.7	117.7	115.0	106.3	110.7	113.7	143.7	118.5	131.1	141.8
5	HQPM 7	131.3	97.0	116.3	114.7	106.3	107.0	112.1	143.7	126.0	134.8	138.9
6	SEED TECH 2324	125.3	97.3	116.7	115.5	105.0	109.0	111.5	142.3	116.0	129.2	140.6
7	PMH 1	125.7	102.3	117.0	117.0	106.7	110.3	113.2	142.0	121.0	131.5	136.4
8	BIO 9681	126.0	95.0	116.3	115.0	105.7	106.3	110.7	141.0	117.0	129.0	140.6
	Loc. Mean	129.4	98.7	117.2	115.6	106.0	109.3	112.7	142.5	120.9	131.7	139.6
	C.D. (5%)	4.03	4.12	2.66	1.96	1.36	2.61	2.11	2.24	14.04	7.33	6.87
	C.V. (%)	1.78	2.38	1.30	0.97	0.73	1.36	1.60	0.90	4.91	2.35	7.46
	F (Prob)	0.00	0.02	0.39	0.31	0.18	0.01	0.04	0.06	0.39	0.32	0.19

Table No.5 (Cont..)

PLANT HEIGHT(cm)

S.No.	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	VEHQ 11-1	132.7	145.0	196.7	154.0	183.5	162.4	189.3	167.0	185.0	176.7	183.7	129.2	171.8
2	VEHQ 11-2	-	146.7	185.7	157.0	185.7	168.8	181.7	171.7	179.5	-	192.3	140.8	173.2
	CHECKS													
3	HQPM 1	125.0	140.0	191.3	152.3	179.7	157.7	218.7	167.0	191.0	176.1	180.9	133.5	177.9
4	HQPM 5	114.3	170.0	172.7	145.3	176.3	155.7	208.3	172.7	180.0	-	182.8	126.7	174.1
5	HQPM 7	-	146.7	199.3	153.3	189.3	172.2	181.0	164.7	180.0	-	158.5	139.7	164.8
6	SEED TECH 2324	115.3	150.0	184.0	140.3	200.0	157.9	196.7	173.0	166.0	169.1	188.4	120.2	168.9
7	PMH 1	-	150.0	185.7	156.7	193.0	171.3	187.0	160.3	170.0	-	170.0	-	171.8
8	BIO 9681	144.7	165.0	212.7	150.3	177.3	170.0	207.0	181.0	186.0	180.5	187.8	138.0	180.0
	Loc. Mean	126.4	151.7	191.0	151.2	185.6	164.5	196.2	169.7	179.7	175.6	180.5	132.6	172.8
	C.D. (5%)	38.95	27.52	21.39	11.77	11.30	17.61	28.89	10.59	7.93	24.85	4.58	36.33	12.30
	C.V. (%)	12.94	10.36	6.40	4.44	3.48	8.27	8.41	3.56	2.52	5.01	1.45	14.41	6.07
	F (Prob)	0.22	0.32	0.04	0.10	0.01	0.31	0.11	0.03	0.00	0.50	0.00	0.81	0.30

PLANT HEIGHT(cm)

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	VEHQ 11-1	178.5	235.0	181.7	214.3	194.1	179.3	197.1	193.7	192.5	193.1	179.6
2	VEHQ 11-2	185.0	243.3	155.0	212.0	186.2	165.1	191.1	195.5	197.5	196.5	181.2
	CHECKS											
3	HQPM 1	175.0	243.3	158.3	213.0	192.1	175.1	192.8	179.9	182.5	181.2	177.6
4	HQPM 5	173.0	251.7	180.0	213.0	180.1	171.6	194.9	225.7	197.5	211.6	180.1
5	HQPM 7	188.0	250.0	171.7	215.7	188.7	171.8	197.6	193.7	190.0	191.9	181.3
6	SEED TECH 2324	179.0	226.7	188.3	214.5	191.0	147.5	191.2	217.4	196.5	206.9	177.0
7	PMH 1	180.5	250.0	173.3	215.5	191.3	188.1	199.8	205.4	212.0	208.7	186.8
8	BIO 9681	195.0	278.3	150.0	212.5	185.7	173.1	199.1	198.8	201.5	200.2	185.5
	Loc. Mean	181.8	247.3	169.8	213.8	188.7	171.4	195.5	201.3	196.3	198.8	181.1
	C.D. (5%)	17.18	17.97	32.49	9.91	7.04	15.06	12.43	29.88	36.29	21.02	8.10
	C.V. (%)	5.40	4.15	10.93	2.65	2.13	5.01	5.43	8.48	7.82	4.47	6.97
	F (Prob)	0.21	0.00	0.19	0.99	0.02	0.00	0.72	0.10	0.72	0.11	0.20

Table No.5 (Cont..)

EAR HEIGHT(cm)

S.No.	PEDIGREE	LUDH	KARN	PANT	DELH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	BHUB	GOSS	ZN 3 Mean
1	VEHQ 11-1	46.7	60.0	73.3	70.7	64.5	67.1	78.0	80.3	92.5	79.1	68.1	48.9	74.5
2	VEHQ 11-2	-	56.7	70.8	77.5	63.0	67.0	82.0	80.3	87.0	-	84.8	50.7	77.0
	CHECKS													
3	HQPM 1	44.3	60.0	72.7	68.0	60.7	65.3	112.7	79.0	90.0	82.7	66.1	50.0	80.1
4	HQPM 5	45.0	78.3	62.7	72.0	60.7	68.4	95.3	89.0	90.5	-	75.6	51.5	80.4
5	HQPM 7	-	73.3	79.3	74.0	64.3	72.8	71.3	77.7	85.5	-	64.7	60.8	72.0
6	SEED TECH 2324	46.3	75.0	86.7	80.7	70.3	78.2	80.3	96.7	105.0	84.7	94.9	45.3	84.5
7	PMH 1	-	60.0	62.0	81.0	66.7	67.4	96.7	78.7	80.5	-	62.9	-	79.7
8	BIO 9681	52.0	73.3	85.3	69.0	63.3	72.8	75.0	94.3	89.5	85.6	74.9	38.3	76.3
	Loc. Mean	46.9	67.1	74.1	74.1	64.2	69.9	86.4	84.5	90.1	83.0	74.0	49.4	78.0
	C.D. (5%)	32.88	18.51	12.06	10.88	5.87	9.42	18.05	17.92	7.22	15.45	4.69	13.30	11.82
	C.V. (%)	29.46	15.76	9.30	8.38	5.22	9.17	11.92	12.11	4.58	6.59	3.62	14.16	12.92
	F (Prob)	0.96	0.12	0.00	0.12	0.05	0.14	0.00	0.19	0.00	0.52	0.00	0.06	0.51

EAR HEIGHT(cm)

S.No.	PEDIGREE	ARBH	KARI	KOLH	MAND	COIM	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	VEHQ 11-1	78.5	85.0	101.7	118.7	96.8	77.4	93.0	90.5	86.0	88.2	80.6
2	VEHQ 11-2	89.0	106.7	93.3	118.0	98.0	75.0	96.7	95.5	94.0	94.8	83.7
	CHECKS											
3	HQPM 1	77.0	98.3	85.0	122.0	95.6	79.5	92.9	98.4	83.0	90.7	82.3
4	HQPM 5	82.5	106.7	106.7	117.5	97.1	83.0	98.9	118.9	98.5	108.7	87.4
5	HQPM 7	83.0	93.3	105.0	116.0	106.0	79.3	97.1	99.4	87.5	93.5	83.6
6	SEED TECH 2324	93.0	96.7	113.3	118.0	107.2	81.3	101.6	110.6	102.5	106.6	91.2
7	PMH 1	84.5	96.7	98.3	116.5	98.6	85.9	96.8	90.5	102.0	96.2	85.1
8	BIO 9681	93.0	93.3	111.7	117.0	96.4	81.1	98.7	103.8	98.5	101.2	85.7
	Loc. Mean	85.1	97.1	101.9	118.0	99.5	80.3	97.0	100.9	94.0	97.5	84.9
	C.D. (5%)	10.65	10.75	22.42	14.80	7.22	8.86	6.66	15.34	26.57	16.21	5.06
	C.V. (%)	7.15	6.32	12.56	7.16	4.14	6.30	5.86	8.68	11.95	7.03	9.03
	F (Prob)	0.04	0.01	0.20	0.99	0.02	0.31	0.17	0.02	0.55	0.15	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : LUDHIANA 29.5%

AGRONOMY

A - 1

Table 1: Performance of pre-release full season genotypes under different nutrient levels at Zone II.

$N:P_2O_5:K_2O$ (kg/ha)	Germplasm	Grain yield (kg/ha)			Cob yield (kg/ha)	
		Delhi	Karnal	Ludhiana	Karnal	Ludhiana
150:65:65	BIO 265	6677	5001	4878	6475	6319
	115-08-01	5372	6053	4701	7758	6285
	35A019	7530	6776	7462	8303	9792
	PRO 379	7208	6814	6441	8244	8403
	SEED TECH 2324 (C)	8075	7007	7323	8381	9722
	BULAND (C)	7511	5302	8490	6417	11250
	BIO 9681 (C)	7022	6114	4806	7428	6146
200:80:80	BIO 265	7104	5442	5965	7311	7535
	115-08-01	3744	7299	4656	8983	6424
	35A019	8121	6994	6611	8283	8646
	PRO 379	7969	6546	6767	8108	8854
	SEED TECH 2324 (C)	8445	6886	7042	8147	9375
	BULAND (C)	7930	6566	7684	7564	10208
	BIO 9681 (C)	7771	6597	5146	7758	6597
250:95:95	BIO 265	7409	7314	6149	8633	8229
	115-08-01	5616	7040	5538	8517	7465
	35A019	8276	5796	7281	7875	9583
	PRO 379	8537	7776	6205	9256	8542
	SEED TECH 2324 (C)	8658	6818	7938	8478	10278
	BULAND (C)	8110	6468	8444	7622	11389
	BIO 9681 (C)	7562	6875	5208	8653	6910
Location mean		7364.1	6546.9	6416.0	8009.3	8473.9
C.D.(5%) AiBj-AiBk		676.6	1505.1	1069.5	1848.1	1567.1
C.D.(5%) AiBk-AjBk		682.0	1625.2	1930.5	1983.0	2773.4
F(5%)		s	n.s.	n.s.	n.s.	n.s.
150:65:65		7056	6152	6300	7572	8274
200:80:80		7298	6619	6267	8022	8234
250:95:95		7738	6870	6681	8433	8914
C.D.(5%) Ai-Aj		279.1	862.7	1681.4	1034.3	2399.2
C.V.(%) Error A		4.4	15.4	30.6	15.1	33.0
F(5%)		s	n.s.	n.s.	n.s.	n.s.
BIO 265		7063	5919	5664	7473	7361
115-08-01		4911	6798	4965	8419	6725
35A019		7976	6522	7118	8154	9340
PRO 379		7905	7045	6471	8536	8600
SEED TECH 2324 (C)		8393	6904	7434	8335	9792
BULAND (C)		7850	6112	8206	7201	10949
BIO 9681 (C)		7451	6529	5053	7946	6551
C.D.(5%)Bi-Bj		390.6	869.0	617.5	1067.0	904.8
C.V.(%)ErrorB		5.5	13.9	10.1	13.9	11.2
F(5%)		s	n.s.	s	n.s.	s

Cont…

A – 2

$N:P_2O_5:K_2O$ (kg/ha)	Germplasm	No. of plant ('000/ha)			No. of cobs ('000/ha)	Days to 50% silking		Days to 50% tasseling
		Delhi	Karnal	Ludhiana	Delhi	Karnal	Ludhiana	Karnal
150:65:65	BIO 265	66.0	60.6	76.0	66.0	142.7	145.7	139.7
	115-08-01	52.5	46.4	74.7	52.8	139.3	146.3	136.3
	35A019	66.7	66.1	76.4	66.7	140.7	145.3	137.7
	PRO 379	66.0	64.2	75.0	65.4	136.0	142.0	133.0
	SEED TECH 2324 (C)	66.0	62.5	79.2	66.3	138.3	142.0	135.7
	BULAND (C)	66.0	65.3	80.2	67.3	142.7	149.3	140.0
	BIO 9681 (C)	64.2	46.1	76.0	64.8	138.0	146.7	135.0
200:80:80	BIO 265	65.4	64.7	80.9	66.0	142.7	146.7	139.0
	115-08-01	35.2	52.5	74.7	35.5	139.7	147.0	137.0
	35A019	66.0	62.5	77.4	65.2	140.0	146.3	137.0
	PRO 379	67.0	61.1	74.3	66.6	137.0	141.3	134.3
	SEED TECH 2324 (C)	66.0	63.6	78.8	65.4	138.3	142.7	136.3
	BULAND (C)	66.0	63.3	72.9	66.7	143.0	151.0	140.0
	BIO 9681 (C)	64.8	42.8	73.3	64.8	138.3	146.3	136.3
250:95:95	BIO 265	66.7	65.6	80.6	66.2	141.3	144.3	138.0
	115-08-01	48.8	53.1	76.0	49.1	138.0	144.7	135.3
	35A019	66.0	64.2	78.8	64.2	138.3	145.0	136.0
	PRO 379	66.7	59.4	75.7	66.8	135.0	143.0	132.0
	SEED TECH 2324 (C)	66.0	65.0	78.5	66.3	139.0	141.0	136.7
	BULAND (C)	66.0	66.4	78.8	65.4	143.0	149.3	140.0
	BIO 9681 (C)	63.0	47.8	73.3	62.3	138.3	146.3	136.3
Location mean		62.9	59.2	76.7	62.9	139.5	145.3	136.7
C.D.(5%) AiBj-AiBk		4.7	6.0	8.6	4.5	1.8	3.0	1.6
C.D.(5%) AiBk-AjBk		4.9	7.8	10.2	4.5	2.1	4.1	2.1
F(5%)		s	n.s.	n.s.	s	n.s.	n.s.	n.s.
150:65:65		63.9	58.7	76.8	64.2	139.7	145.3	136.8
200:80:80		61.5	58.7	76.0	61.5	139.9	145.9	137.1
250:95:95		63.3	60.2	77.4	62.9	139.0	144.8	136.3
C.D.(5%) Ai-Aj		2.3	5.7	6.5	1.9	1.3	3.0	1.5
C.V.(%) Error A		4.2	11.2	9.9	3.6	1.1	2.4	1.3
F(5%)		n.s.	n.s.	n.s.	s	n.s.	n.s.	n.s.
BIO 265		66.0	63.6	79.2	66.1	142.2	145.6	138.9
115-08-01		45.5	50.6	75.1	45.8	139.0	146.0	136.2
35A019		66.3	64.3	77.5	65.4	139.7	145.6	136.9
PRO 379		66.6	61.6	75.0	66.3	136.0	142.1	133.1
SEED TECH 2324 (C)		66.0	63.7	78.8	66.0	138.6	141.9	136.2
BULAND (C)		66.0	65.0	77.3	66.5	142.9	149.9	140.0
BIO 9681 (C)		64.0	45.6	74.2	64.0	138.2	146.4	135.9
C.D.(5%)Bi-Bj		2.7	3.4	5.0	2.6	1.0	1.7	0.9
C.V.(%)ErrorB		4.5	6.1	6.8	4.3	0.8	1.3	0.7
F(5%)		s	s	n.s.	s	s	s	s

Cont...

A – 3

$N:P_2O_5:K_2O$ (kg/ha)	Germplasm	Plant height (cm)		Ear height (cm)	Shelling (%)	Cob length (cm)	No. of grain rows/cob
		Karnal	Ludhiana	Karnal	Karnal	Delhi	Delhi
150:65:65	BIO 265	188.3	136.7	101.7	77.2	14.4	14.7
	115-08-01	171.7	120.0	108.3	78.0	15.8	12.7
	35A019	173.3	160.0	105.0	81.6	15.9	14.8
	PRO 379	200.0	140.0	100.0	82.6	14.7	13.9
	SEED TECH 2324 (C)	203.3	130.0	105.0	83.6	15.9	13.1
	BULAND (C)	158.3	161.7	90.0	82.6	14.9	17.1
	BIO 9681 (C)	165.0	130.0	83.3	82.3	16.5	13.4
200:80:80	BIO 265	176.7	138.3	96.7	74.4	15.4	14.5
	115-08-01	186.7	125.0	95.0	81.2	15.7	13.1
	35A019	170.0	141.7	110.0	84.4	16.2	14.6
	PRO 379	150.0	130.0	83.3	80.6	14.9	14.1
	SEED TECH 2324 (C)	191.7	126.7	123.3	84.5	15.9	13.3
	BULAND (C)	156.7	155.0	86.7	86.8	15.2	17.1
	BIO 9681 (C)	171.7	125.0	98.3	85.0	17.2	13.6
250:95:95	BIO 265	176.7	141.7	86.7	84.7	15.6	14.7
	115-08-01	228.3	136.7	143.3	82.6	16.8	13.1
	35A019	188.3	160.0	98.3	73.6	16.1	14.8
	PRO 379	200.0	125.0	105.0	84.0	15.5	15.1
	SEED TECH 2324 (C)	165.0	133.3	76.7	80.9	16.0	13.3
	BULAND (C)	171.7	150.0	83.3	85.0	15.1	17.7
	BIO 9681 (C)	180.0	143.3	96.7	79.5	17.1	13.7
Location mean		179.7	138.6	98.9	81.7	15.8	14.4
C.D.(5%) AiBj-AiBk		29.4	16.9	28.4	1.9	0.8	0.9
C.D.(5%) AiBk-AjBk		33.4	24.4	28.1	2.0	1.0	1.0
F(5%)		s	n.s.	s	s	n.s.	n.s.
150:65:65		180.0	139.8	99.0	81.1	15.4	14.2
200:80:80		171.9	134.5	99.0	82.4	15.8	14.3
250:95:95		187.1	141.4	98.6	81.5	16.0	14.6
C.D.(5%) Ai-Aj		19.8	19.1	10.1	0.9	0.6	0.5
C.V.(%) Error A		12.9	16.1	11.9	1.3	4.6	4.4
F(5%)		n.s.	n.s.	n.s.	s	n.s.	n.s.
BIO 265		180.6	138.9	95.0	78.8	15.1	14.6
115-08-01		195.6	127.2	115.6	80.6	16.1	13.0
35A019		177.2	153.9	104.4	79.9	16.1	14.7
PRO 379		183.3	131.7	96.1	82.4	15.0	14.4
SEED TECH 2324 (C)		186.7	130.0	101.7	83.0	16.0	13.2
BULAND (C)		162.2	155.6	86.7	84.8	15.1	17.3
BIO 9681 (C)		172.2	132.8	92.8	82.3	16.9	13.6
C.D.(5%)Bi-Bj		17.0	9.8	16.4	1.1	0.5	0.5
C.V.(%)ErrorB		9.9	7.4	17.4	1.4	3.2	3.6
F(5%)		s	s	s	s	s	s

Cont...

A – 4

$N:P_2O_5:K_2O$ (kg/ha)	Germplasm	No. of grains/row	Grain weight/5 cob (g)	100, grain weight (g)
		Delhi	Delhi	Delhi
150:65:65	BIO 265	32.7	102.4	21.3
	115-08-01	34.8	102.1	23.2
	35A019	32.7	113.6	23.5
	PRO 379	31.1	111.1	25.7
	SEED TECH 2324 (C)	32.6	122.7	28.8
	BULAND (C)	28.5	112.3	23.1
	BIO 9681 (C)	31.1	109.5	26.3
200:80:80	BIO 265	33.5	108.1	22.2
	115-08-01	34.9	106.6	23.4
	35A019	35.9	125.5	24.0
	PRO 379	32.8	120.7	26.1
	SEED TECH 2324 (C)	34.4	130.1	28.4
	BULAND (C)	30.2	119.9	23.2
	BIO 9681 (C)	33.6	121.2	26.5
250:95:95	BIO 265	34.8	112.7	22.1
	115-08-01	37.0	116.0	23.9
	35A019	36.3	129.4	24.1
	PRO 379	33.0	129.4	26.0
	SEED TECH 2324 (C)	34.6	131.8	28.6
	BULAND (C)	30.1	124.9	23.4
	BIO 9681 (C)	33.7	122.2	26.5
Location mean		33.3	117.7	24.8
C.D.(5%) AiBj-AiBk		1.7	6.1	1.2
C.D.(5%) AiBk-AjBk		1.8	6.4	1.5
F(5%)		n.s.	n.s.	n.s.
150:65:65		31.9	110.5	24.6
200:80:80		33.6	118.9	24.8
250:95:95		34.2	123.8	24.9
C.D.(5%) Ai-Aj		0.9	3.2	1.0
C.V.(%) Error A		3.2	3.1	4.7
F(5%)		s	s	n.s.
BIO 265		33.7	107.8	21.9
115-08-01		35.6	108.3	23.5
35A019		35.0	122.8	23.8
PRO 379		32.3	120.4	25.9
SEED TECH 2324 (C)		33.9	128.2	28.6
BULAND (C)		29.6	119.0	23.2
BIO 9681 (C)		32.8	117.7	26.4
C.D.(5%)Bi-Bj		1.0	3.5	0.7
C.V.(%)ErrorB		3.0	3.1	2.9
		s	s	s

A – 5

Table 2: Performance of pre-release full season genotypes under different nutrient levels at Zone III.

$N:P_2O_5:K_2O$ (kg/ha)	Germplasm	Grain yield (kg/ha)			Cob yield (kg/ha)	
		Bahraich	Dholi	Varanasi	Bahraich	Dholi
150:65:65	BIO 265	5868	5917	10530	7368	7578
	115-08-01	6090	4621	9270	7653	5911
	35A019	6590	6378	10174	8229	8178
	PRO 379	7944	6754	12496	9917	8756
	SEED TECH 2324 (C)	6368	4991	10867	7965	6400
	BULAND (C)	7021	5370	8593	8771	6978
	BIO 9681 (C)	4840	4539	9248	6042	5778
200:80:80	BIO 265	7319	8359	11385	9167	11133
	115-08-01	7549	6505	9922	9431	8422
	35A019	8313	8407	11667	10389	10844
	PRO 379	9861	9155	12370	12319	11867
	SEED TECH 2324 (C)	8299	8225	11996	10368	10622
	BULAND (C)	9076	7053	8830	11340	9267
	BIO 9681 (C)	6222	6805	10307	7771	8800
250:95:95	BIO 265	9632	10373	12330	12035	13578
	115-08-01	9431	9112	11341	11785	11711
	35A019	10153	10946	11919	12688	14311
	PRO 379	12236	10490	13052	15299	13800
	SEED TECH 2324 (C)	10292	10886	13263	12854	14111
	BULAND (C)	11347	9744	10111	14181	12600
	BIO 9681 (C)	7826	8322	10522	9771	10800
Location mean		8203.7	7759.6	10961.6	10254.3	10068.8
C.D.(5%) AiBj-AiBk		105.0	733.9	1894.7	122.9	948.6
C.D.(5%) AiBk-AjBk		106.3	798.8	2187.9	124.7	1031.4
F(5%)		s	s	n.s.	s	s
150:65:65		6389	5510	10168	7992	7083
200:80:80		8091	7787	10925	10112	10137
250:95:95		10131	9982	11791	12659	12987
C.D.(5%) Ai-Aj		44.5	433.1	1345.2	52.7	557.8
C.V.(%) Error A		0.6	6.5	14.3	0.6	6.5
F(5%)		s	s	n.s.	s	s
BIO 265		7606	8216	11415	9523	10763
115-08-01		7690	6746	10178	9623	8681
35A019		8352	8577	11253	10435	11111
PRO 379		10014	8800	12640	12512	11474
SEED TECH 2324 (C)		8319	8034	12042	10396	10378
BULAND (C)		9148	7389	9178	11431	9615
BIO 9681 (C)		6296	6555	10026	7861	8459
C.D.(5%)Bi-Bj		60.6	423.7	1093.9	70.9	547.7
C.V.(%)ErrorB		0.8	5.7	10.4	0.7	5.7
F(5%)		s	s	s	s	s

Cont….

A – 6

$N:P_2O_5:K_2O$ (kg/ha)	Germplasm	No. of plant ('000/ha)			No. of cobs ('000/ha)		
		Bahraich	Dholi	Varanasi	Bahraich	Dholi	Varanasi
150:65:65	BIO 265	76.4	70.7	66.7	66.0	71.1	69.3
	115-08-01	77.1	77.8	65.6	66.0	77.6	80.4
	35A019	79.9	77.6	66.7	79.9	77.6	81.9
	PRO 379	79.9	77.1	66.3	65.3	77.8	70.7
	SEED TECH 2324 (C)	84.0	75.8	66.7	60.4	75.6	71.1
	BULAND (C)	81.3	78.9	64.1	70.8	79.1	64.4
	BIO 9681 (C)	77.8	78.2	64.4	42.4	78.2	64.8
200:80:80	BIO 265	81.3	81.1	66.7	68.1	81.6	69.3
	115-08-01	79.2	83.3	60.4	64.6	84.0	77.4
	35A019	83.3	82.9	66.7	81.3	84.0	83.7
	PRO 379	84.0	82.9	66.3	66.7	83.6	69.6
	SEED TECH 2324 (C)	85.4	82.7	65.6	60.4	84.4	72.2
	BULAND (C)	83.3	82.9	66.3	72.2	84.0	69.6
	BIO 9681 (C)	81.3	82.4	63.3	45.1	83.6	65.2
250:95:95	BIO 265	83.3	82.9	66.7	70.8	84.7	70.0
	115-08-01	83.3	83.3	64.8	64.6	84.9	76.7
	35A019	85.4	82.7	65.6	83.3	85.1	82.6
	PRO 379	84.0	81.3	62.2	69.4	83.3	70.7
	SEED TECH 2324 (C)	88.2	82.9	66.7	64.6	84.7	65.9
	BULAND (C)	83.3	82.4	66.3	72.9	84.9	76.3
	BIO 9681 (C)	83.3	82.2	63.0	50.7	84.7	64.8
Location mean		82.1	80.6	65.3	66.0	81.6	72.2
C.D.(5%) AiBj-AiBk		2.6	3.6	3.4	2.7	3.3	8.9
C.D.(5%) AiBk-AjBk		2.6	3.5	3.9	3.2	3.6	9.1
F(5%)		n.s.	n.s.	n.s.	s	n.s.	n.s.
150:65:65		79.5	76.6	65.8	64.4	76.7	71.8
200:80:80		82.5	82.6	65.0	65.5	83.6	72.4
250:95:95		84.4	82.5	65.0	68.1	84.6	72.4
C.D.(5%) Ai-Aj		0.9	1.3	2.3	2.0	2.0	4.1
C.V.(%) Error A		1.3	1.9	4.1	3.5	2.8	6.7
F(5%)		s	s	n.s.	s	s	n.s.
BIO 265		80.3	78.2	66.7	68.3	79.1	69.5
115-08-01		79.9	81.5	63.6	65.0	82.1	78.1
35A019		82.9	81.0	66.3	81.5	82.2	82.7
PRO 379		82.6	80.4	64.9	67.1	81.6	70.4
SEED TECH 2324 (C)		85.9	80.4	66.3	61.8	81.6	69.8
BULAND (C)		82.6	81.4	65.6	72.0	82.7	70.1
BIO 9681 (C)		80.8	81.0	63.6	46.1	82.1	64.9
C.D.(5%)Bi-Bj		1.5	2.1	2.0	1.6	1.9	5.1
C.V.(%)ErrorB		1.9	2.7	3.2	2.5	2.4	7.4
F(5%)		s	s	s	s	s	s

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A – 7

$N:P_2O_5:K_2O$ (kg/ha)	Germplasm	Days of 50% Tasseling		Days to 50% silking			Shelling (%)
		Dholi	Varanasi	Bahraich	Dholi	Varanasi	Bahraich
150:65:65	BIO 265	121.0	112.0	111.3	124.7	116.0	79.6
	115-08-01	119.0	112.0	111.7	123.3	116.3	79.6
	35A019	120.7	113.3	112.3	125.0	116.0	80.1
	PRO 379	132.7	108.7	113.0	120.3	112.0	80.1
	SEED TECH 2324 (C)	118.7	109.7	115.0	122.3	113.3	79.9
	BULAND (C)	125.0	115.7	114.0	128.7	119.3	80.0
	BIO 9681 (C)	119.7	110.7	114.7	123.7	116.0	80.1
200:80:80	BIO 265	120.3	112.0	107.7	124.3	117.0	79.8
	115-08-01	119.0	111.7	109.0	123.3	116.7	80.0
	35A019	120.3	112.7	107.7	124.7	115.0	80.0
	PRO 379	115.7	108.0	108.0	119.7	112.0	80.0
	SEED TECH 2324 (C)	118.0	108.3	110.0	122.0	112.7	80.0
	BULAND (C)	125.3	116.0	112.0	128.7	119.0	80.0
	BIO 9681 (C)	120.0	111.0	107.7	123.7	115.0	80.1
250:95:95	BIO 265	120.0	112.0	104.0	124.0	116.0	80.0
	115-08-01	118.0	111.3	106.0	121.7	115.7	80.0
	35A019	120.0	112.3	104.7	124.0	115.0	80.0
	PRO 379	114.7	107.7	103.0	118.0	111.7	80.0
	SEED TECH 2324 (C)	117.0	109.7	107.7	120.7	113.3	80.1
	BULAND (C)	123.7	113.3	106.0	127.3	117.3	80.0
	BIO 9681 (C)	118.7	110.0	104.0	123.0	114.0	80.1
Location mean		120.3	111.3	109.0	123.5	115.2	80.0
C.D.(5%) AiBj-AiBk		10.4	2.9	1.4	1.8	2.8	0.4
C.D.(5%) AiBk-AjBk		11.4	3.2	1.4	2.2	3.1	0.4
F(5%)		n.s.	n.s.	s	n.s.	n.s.	n.s.
150:65:65		122.4	111.7	113.1	124.0	115.6	79.9
200:80:80		119.8	111.4	108.9	123.8	115.3	80.0
250:95:95		118.9	110.9	105.0	122.7	114.7	80.0
C.D.(5%) Ai-Aj		6.4	1.9	0.6	1.5	1.8	0.3
C.V.(%) Error A		6.2	1.9	0.6	1.4	1.8	0.4
F(5%)		n.s.	n.s.	s	n.s.	n.s.	n.s.
BIO 265		120.4	112.0	107.7	124.3	116.3	79.8
115-08-01		118.7	111.7	108.9	122.8	116.2	79.9
35A019		120.3	112.8	108.2	124.6	115.3	80.0
PRO 379		121.0	108.1	108.0	119.3	111.9	80.0
SEED TECH 2324 (C)		117.9	109.2	110.9	121.7	113.1	80.0
BULAND (C)		124.7	115.0	110.7	128.2	118.6	80.0
BIO 9681 (C)		119.4	110.6	108.8	123.4	115.0	80.1
C.D.(5%)Bi-Bj		6.0	1.7	0.8	1.1	1.6	0.2
C.V.(%)ErrorB		5.2	1.6	0.8	0.9	1.4	0.3
F(5%)		n.s.	s	s	s	s	n.s.

Cont….

A – 8

$N:P_2O_5:K_2O$ (kg/ha)	Germplasm	Plant height (cm)			Ear height (cm)		Moisture (%)
		Bahraich	Dholi	Varanasi	Dholi	Varanasi	Dholi
150:65:65	BIO 265	171.0	161.3	193.3	72.1	92.7	16.7
	115-08-01	164.3	147.1	159.3	76.2	82.0	17.0
	35A019	176.0	192.5	237.3	92.5	123.0	15.8
	PRO 379	155.0	152.5	175.3	69.7	95.7	17.2
	SEED TECH 2324 (C)	175.0	150.5	173.7	78.5	107.0	16.8
	BULAND (C)	184.2	156.4	199.0	76.1	101.7	17.7
	BIO 9681 (C)	174.2	138.7	193.7	80.9	93.3	16.2
200:80:80	BIO 265	176.3	177.1	202.3	85.6	91.7	18.7
	115-08-01	169.0	141.9	155.0	76.1	80.3	16.7
	35A019	186.3	202.0	229.3	106.3	118.7	16.8
	PRO 379	165.0	158.0	167.3	80.5	89.3	17.7
	SEED TECH 2324 (C)	183.0	156.5	182.0	87.5	104.7	18.1
	BULAND (C)	195.6	151.7	204.0	77.3	108.0	17.9
	BIO 9681 (C)	182.3	180.6	202.7	82.3	98.7	17.1
250:95:95	BIO 265	183.3	181.5	204.7	78.9	102.0	18.8
	115-08-01	174.3	142.2	168.7	70.8	88.3	16.7
	35A019	200.0	188.7	232.7	106.7	125.0	17.5
	PRO 379	175.7	148.5	169.7	72.7	96.0	17.0
	SEED TECH 2324 (C)	192.3	158.7	177.3	85.3	104.3	16.8
	BULAND (C)	204.0	155.7	213.0	91.1	111.3	17.1
	BIO 9681 (C)	189.4	191.4	197.0	99.3	100.3	17.3
Location mean		179.8	163.5	192.3	83.2	100.7	17.2
C.D.(5%) AiBj-AiBk		1.5	24.9	16.2	12.4	11.3	1.0
C.D.(5%) AiBk-AjBk		1.6	27.1	22.4	15.1	14.4	1.0
F(5%)		s	n.s.	n.s.	n.s.	n.s.	s
150:65:65		171.4	157.0	190.2	78.0	99.3	16.7
200:80:80		179.7	166.8	191.8	85.1	98.8	17.6
250:95:95		188.4	166.7	194.7	86.4	103.9	17.3
C.D.(5%) Ai-Aj		1.0	14.6	17.0	10.0	10.1	0.5
C.V.(%) Error A		0.6	10.4	10.3	14.1	11.7	3.5
F(5%)		s	n.s.	n.s.	n.s.	n.s.	s
BIO 265		176.9	173.3	200.1	78.9	95.4	18.1
115-08-01		169.2	143.7	161.0	74.4	83.6	16.8
35A019		187.4	194.4	233.1	101.8	122.2	16.7
PRO 379		165.2	153.0	170.8	74.3	93.7	17.3
SEED TECH 2324 (C)		183.4	155.2	177.7	83.8	105.3	17.2
BULAND (C)		194.6	154.6	205.3	81.5	107.0	17.5
BIO 9681 (C)		181.9	170.2	197.8	87.5	97.4	16.8
C.D.(5%)Bi-Bj		0.8	14.4	9.3	7.1	6.5	0.6
C.V.(%)ErrorB		0.5	9.2	5.1	9.0	6.8	3.5
F(5%)		s	s	s	s	s	s

Table 3: Performance of pre-release full season genotypes under different nutrient levels at Zone IV.

$N:P_2O_5:K_2O$ (kg/ha)	Germplasm	Grain yield (kg/ha)			Cob yield (kg/ha)			Fodder yield (kg/ha)
		Arbhavi	Hyderabad	Kolhapur	Arbhavi	Hyderabad	Kolhapur	Arbhavi
150:65:65	BIO 265	4286	5046	7473	5278	6856	9018	4583
	115-08-01	5629	5046	4933	6944	7837	5971	5111
	35A019	5550	5652	6031	6667	7676	7216	5889
	PRO 379	7363	6759	7816	9389	9537	9353	9278
	SEED TECH 2324 (C	5611	5300	6089	7028	6889	7336	6500
	BULAND (C)	3395	4861	5329	4250	6126	6344	4861
	BIO 9681 (C)	2865	6300	3387	3389	7759	4013	3083
200:80:80	BIO 265	5729	6148	8813	7028	7239	10560	5361
	115-08-01	6020	8315	5820	7472	8133	6996	6417
	35A019	6740	6546	7620	8000	7833	9136	6361
	PRO 379	9248	8296	8953	11972	10278	10653	9139
	SEED TECH 2324 (C	5958	6315	7480	7528	7537	8902	6083
	BULAND (C)	4896	5711	5749	6167	6667	6902	5556
	BIO 9681 (C)	4103	7943	4164	5000	8463	4978	5222
250:95:95	BIO 265	7761	5815	9767	9583	7620	11698	7611
	115-08-01	7140	8235	6571	9028	10041	7880	8167
	35A019	7212	7509	8182	8528	8315	9844	8000
	PRO 379	10441	8722	9989	13250	10517	11902	10111
	SEED TECH 2324 (C	8185	6559	7660	10306	7648	9189	9111
	BULAND (C)	5291	6424	5876	6806	7389	7011	5972
	BIO 9681 (C)	6125	9054	2182	7417	8728	2618	6194
Location mean		6168.9	6732.8	6661.2	7668.0	8051.8	7977.1	6600.5
C.D.(5%) AiBj-AiBk		1265.7	1333.6	778.9	1688.9	1821.2	936.9	1408.7
C.D.(5%) AiBk-AjBk		1334.1	1420.8	990.8	1743.7	2089.8	1192.8	1468.6
F(5%)		n.s.	n.s.	s	n.s.	n.s.	s	n.s.
150:65:65		4957	5685	5865	6135	7526	7036	5615
200:80:80		6099	7039	6943	7595	8021	8304	6306
250:95:95		7451	7474	7175	9274	8608	8592	7881
C.D.(5%) Ai-Aj		658.5	725.5	696.4	797.7	1270.4	839.2	697.5
C.V.(%) Error A		12.5	12.6	12.2	12.1	18.4	12.3	12.3
F(5%)		s	s	s	s	n.s.	s	s
BIO 265		5925	5670	8684	7296	7238	10425	5852
115-08-01		6263	7476	5775	7815	8670	6949	6565
35A019		6501	6569	7278	7731	7941	8732	6750
PRO 379		9017	7926	8919	11537	10110	10636	9509
SEED TECH 2324 (C)		6585	6058	7076	8287	7358	8476	7231
BULAND (C)		4528	5665	5651	5741	6727	6753	5463
BIO 9681 (C)		4364	7765	3244	5269	8317	3870	4833
C.D.(5%)Bi-Bj		730.7	770.0	449.7	975.1	1051.5	540.9	813.3
C.V.(%)ErrorB		12.4	12.0	7.1	13.3	13.7	7.1	12.9
F(5%)		s	s	s	s	s	s	s

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A - 10

$N:P_2O_5:K_2O$ (kg/ha)	Germplasm	No. of plants (000/ha)			No. of cobs (000/ha)	Plant height (cm)		
		Arbhavi	Hyderabad	Kolhapur	Hyderabad	Arbhavi	Hyderabad	Kolhapur
150:65:65	BIO 265	48.3	55.6	52.0	52.6	179.0	211.6	190.0
	115-08-01	39.2	44.8	38.2	41.5	161.3	225.1	159.0
	35A019	44.7	54.8	50.9	51.5	189.6	225.3	192.3
	PRO 379	45.3	57.2	52.7	53.3	170.0	231.1	178.3
	SEED TECH 2324 (C	42.8	54.4	51.8	51.1	163.3	222.0	169.7
	BULAND (C)	43.6	43.0	51.6	40.2	169.3	214.4	171.3
	BIO 9681 (C)	40.0	55.9	22.4	51.1	171.0	225.7	176.7
200:80:80	BIO 265	45.8	56.7	52.4	54.1	191.7	217.7	198.0
	115-08-01	39.7	46.3	29.1	44.4	162.7	230.3	165.3
	35A019	48.9	55.2	52.9	53.7	186.3	234.7	208.0
	PRO 379	47.2	58.1	48.9	54.8	169.7	243.3	185.3
	SEED TECH 2324 (C	44.7	55.6	52.4	52.6	164.0	226.3	184.3
	BULAND (C)	41.1	43.7	50.9	41.7	170.7	219.0	176.0
	BIO 9681 (C)	38.6	57.0	18.0	51.9	175.7	226.3	183.7
250:95:95	BIO 265	46.1	56.3	51.6	56.1	189.0	231.3	210.3
	115-08-01	40.6	47.4	32.2	48.0	168.3	233.7	182.0
	35A019	45.6	55.2	50.0	54.4	184.3	230.3	211.7
	PRO 379	52.8	59.3	52.0	55.7	173.3	244.3	197.3
	SEED TECH 2324 (C	41.1	55.6	49.1	54.6	165.0	232.7	190.0
	BULAND (C)	41.4	44.4	52.2	44.6	176.3	225.7	187.3
	BIO 9681 (C)	40.0	56.9	16.0	54.4	169.3	232.7	198.7
Location mean		43.7	53.0	44.2	50.6	173.8	227.8	186.4
C.D.(5%) AiBj-AiBk		5.9	5.0	6.0	3.9	16.1	12.2	10.7
C.D.(5%) AiBk-AjBk		6.1	5.0	7.1	3.8	17.2	12.0	11.3
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
150:65:65		43.4	52.2	45.7	48.8	171.9	222.2	176.8
200:80:80		43.7	53.2	43.5	50.4	174.4	228.2	185.8
250:95:95		43.9	53.6	43.3	52.6	175.1	233.0	196.8
C.D.(5%) Ai-Aj		2.7	1.9	4.5	1.2	8.8	4.2	5.5
C.V.(%) Error A		7.2	4.3	11.8	2.7	5.9	2.1	3.4
F(5%)		n.s.	n.s.	n.s.	s	n.s.	s	s
BIO 265		46.8	56.2	52.0	54.3	186.6	220.2	199.4
115-08-01		39.8	46.2	33.2	44.6	164.1	229.7	168.8
35A019		46.4	55.1	51.3	53.2	186.8	230.1	204.0
PRO 379		48.4	58.2	51.2	54.6	171.0	239.6	187.0
SEED TECH 2324 (C)		42.9	55.2	51.1	52.8	164.1	227.0	181.3
BULAND (C)		42.0	43.7	51.6	42.2	172.1	219.7	178.2
BIO 9681 (C)		39.5	56.6	18.8	52.5	172.0	228.2	186.3
C.D.(5%)Bi-Bj		3.4	2.9	3.5	2.3	9.3	7.0	6.2
C.V.(%)ErrorB		8.1	5.7	8.3	4.7	5.6	3.2	3.5
F(5%)		s	s	s	s	s	s	s

Cont….

A – 11

$N:P_2O_5:K_2O$ (kg/ha)	Germplasm	Ear height (cm)	Days to 50% silking		Days to 50% Tasseling	Cob length (cm)	
		Arbhavi	Hyderabad	Kolhapur	Hyderabad	Arbhavi	Hyderabad
150:65:65	BIO 265	76.0	64.0	80.0	61.7	14.6	15.1
	115-08-01	79.0	64.0	77.7	61.7	15.8	15.0
	35A019	93.3	64.3	78.3	61.0	14.8	16.0
	PRO 379	79.7	64.0	75.3	61.3	14.7	16.8
	SEED TECH 2324 (C)	80.0	64.7	76.7	62.7	13.9	15.9
	BULAND (C)	88.0	66.3	80.3	63.0	14.4	14.3
	BIO 9681 (C)	80.3	66.7	76.7	61.3	15.8	16.5
200:80:80	BIO 265	82.0	65.7	79.0	62.7	15.6	15.5
	115-08-01	74.7	64.7	76.0	63.0	16.9	16.1
	35A019	91.3	64.7	77.0	63.3	16.7	16.6
	PRO 379	86.7	65.3	75.3	62.7	17.8	16.8
	SEED TECH 2324 (C)	86.7	65.7	76.0	62.0	16.3	16.1
	BULAND (C)	91.0	65.3	81.7	62.3	13.9	15.7
	BIO 9681 (C)	82.3	65.0	77.3	62.0	18.7	17.9
250:95:95	BIO 265	86.0	65.0	79.3	62.7	15.9	16.9
	115-08-01	87.7	64.0	76.0	63.3	17.6	17.4
	35A019	103.0	65.3	77.7	63.3	16.9	16.8
	PRO 379	88.0	65.3	75.3	62.3	16.3	12.4
	SEED TECH 2324 (C)	89.0	65.0	76.3	62.7	15.8	17.1
	BULAND (C)	96.0	65.0	80.7	63.0	16.3	15.7
	BIO 9681 (C)	83.3	65.0	75.7	62.7	16.0	19.1
Location mean		85.9	65.0	77.5	62.4	15.9	16.2
C.D.(5%) AiBj-AiBk		11.4	1.6	1.4	1.4	2.4	3.6
C.D.(5%) AiBk-AjBk		11.1	1.9	2.5	1.6	2.5	3.9
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
150:65:65		82.3	64.9	77.9	61.8	14.9	15.7
200:80:80		85.0	65.2	77.5	62.6	16.6	16.4
250:95:95		90.4	65.0	77.3	62.9	16.4	16.5
C.D.(5%) Ai-Aj		3.6	1.3	2.1	0.9	1.1	2.1
C.V.(%) Error A		4.9	2.3	3.2	1.8	8.3	14.9
F(5%)		s	n.s.	n.s.	n.s.	s	n.s.
BIO 265		81.3	64.9	79.4	62.3	15.4	15.8
115-08-01		80.4	64.2	76.6	62.7	16.8	16.2
35A019		95.9	64.8	77.7	62.6	16.1	16.5
PRO 379		84.8	64.9	75.3	62.1	16.3	15.3
SEED TECH 2324 (C)		85.2	65.1	76.3	62.4	15.3	16.4
BULAND (C)		91.7	65.6	80.9	62.8	14.9	15.3
BIO 9681 (C)		82.0	65.6	76.6	62.0	16.9	17.8
C.D.(5%)Bi-Bj		6.6	0.9	0.8	0.8	1.4	2.1
C.V.(%)ErrorB		8.0	1.5	1.1	1.3	9.1	13.3
F(5%)		s	n.s.	s	n.s.	s	n.s.

Cont….

A – 12

$N:P_2O_5:K_2O$ (kg/ha)	Germplasm	Cob girth (cm)	Cob width (cm)	No. of grain/kernal row		No. of grain rows/cob	
		Arbhavi	Hyderabad	Arbhavi	Hyderabad	Arbhavi	Hyderabad
150:65:65	BIO 265	4.5	13.6	31.4	35.7	16.2	15.7
	115-08-01	4.3	13.2	33.1	34.9	14.7	14.8
	35A019	4.2	13.3	30.3	37.4	14.9	15.3
	PRO 379	5.0	15.1	31.3	35.3	14.1	14.9
	SEED TECH 2324 (C)	4.6	14.0	29.7	37.5	14.3	14.4
	BULAND (C)	4.8	14.3	29.0	34.1	16.1	16.5
	BIO 9681 (C)	4.6	14.1	27.9	37.8	15.1	14.8
200:80:80	BIO 265	4.5	14.0	32.3	35.3	15.9	15.9
	115-08-01	4.6	13.7	37.0	36.3	14.5	14.8
	35A019	4.4	13.9	35.8	36.5	15.2	15.6
	PRO 379	5.1	15.2	37.1	36.9	14.5	14.1
	SEED TECH 2324 (C)	4.7	14.4	35.1	35.9	14.4	14.2
	BULAND (C)	4.7	14.6	28.5	33.7	16.4	17.0
	BIO 9681 (C)	4.7	14.5	37.7	36.4	15.0	15.4
250:95:95	BIO 265	4.4	14.2	36.1	38.2	15.6	16.4
	115-08-01	4.6	14.3	32.6	37.4	15.0	15.3
	35A019	4.5	14.0	34.1	40.2	15.3	15.2
	PRO 379	4.6	16.1	33.9	40.9	14.5	16.1
	SEED TECH 2324 (C)	4.6	14.7	32.5	38.4	14.9	14.4
	BULAND (C)	4.7	15.0	32.3	34.5	16.0	16.7
	BIO 9681 (C)	4.5	15.4	34.8	39.5	14.0	15.3
Location mean		4.6	14.4	33.0	36.8	15.1	15.4
C.D.(5%) AiBj-AiBk		0.6	1.0	5.7	4.4	1.5	1.5
C.D.(5%) AiBk-AjBk		0.6	1.6	5.8	4.7	1.5	1.5
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
150:65:65		4.6	13.9	30.4	36.1	15.1	15.2
200:80:80		4.7	14.3	34.8	35.9	15.1	15.3
250:95:95		4.6	14.8	33.8	38.4	15.1	15.6
C.D.(5%) Ai-Aj		0.2	1.3	2.6	2.3	0.7	0.6
C.V.(%) Error A		5.9	10.6	9.3	7.3	5.1	4.5
F(5%)		n.s.	n.s.	s	n.s.	n.s.	n.s.
BIO 265		4.5	13.9	33.3	36.4	15.9	16.0
115-08-01		4.5	13.7	34.2	36.2	14.7	15.0
35A019		4.4	13.7	33.4	38.0	15.1	15.4
PRO 379		4.9	15.4	34.1	37.7	14.4	15.1
SEED TECH 2324 (C)		4.6	14.4	32.5	37.3	14.5	14.3
BULAND (C)		4.7	14.6	29.9	34.1	16.2	16.7
BIO 9681 (C)		4.6	14.6	33.4	37.9	14.7	15.2
C.D.(5%)Bi-Bj		0.3	0.6	3.3	2.6	0.9	0.9
C.V.(%)ErrorB		7.5	4.4	10.4	7.2	6.1	5.9
F(5%)		n.s.	s	n.s.	s	s	s

Cont….

A – 13

$N:P_2O_5:K_2O$ (kg/ha)	Germplasm	No. of leaves/plant	Shelling (%)	Moisture (%)	100 grain weight (g)
		Arbhavi	Arbhavi	Arbhavi	Hyderabad
150:65:65	BIO 265	12.1	81.3	16.5	28.6
	115-08-01	11.7	81.1	22.8	30.8
	35A019	13.0	83.2	21.2	30.1
	PRO 379	11.2	78.6	25.4	34.1
	SEED TECH 2324 (C)	11.9	79.8	21.1	30.9
	BULAND (C)	11.5	80.1	16.2	27.3
	BIO 9681 (C)	10.3	84.5	15.1	31.2
200:80:80	BIO 265	11.5	81.5	19.1	30.4
	115-08-01	10.5	80.5	22.3	32.8
	35A019	11.1	84.3	19.7	31.4
	PRO 379	11.3	77.3	23.7	35.3
	SEED TECH 2324 (C)	12.1	79.3	20.1	31.6
	BULAND (C)	10.9	79.5	15.6	28.4
	BIO 9681 (C)	10.7	82.0	12.7	32.3
250:95:95	BIO 265	12.5	81.1	22.1	31.2
	115-08-01	12.1	79.1	23.0	33.2
	35A019	11.1	84.6	19.9	31.6
	PRO 379	11.9	78.9	25.3	36.6
	SEED TECH 2324 (C)	11.1	79.5	20.3	32.4
	BULAND (C)	11.3	77.8	18.7	29.1
	BIO 9681 (C)	10.0	83.2	15.9	33.8
Location mean		11.4	80.8	19.8	31.6
C.D.(5%) AiBj-AiBk		1.2	2.8	4.0	2.4
C.D.(5%) AiBk-AjBk		2.3	2.6	4.1	2.3
F(5%)		s	n.s.	n.s.	n.s.
150:65:65		11.7	81.2	19.8	30.4
200:80:80		11.2	80.6	19.0	31.7
250:95:95		11.4	80.6	20.8	32.6
C.D.(5%) Ai-Aj		2.0	0.3	1.7	0.8
C.V.(%) Error A		20.6	0.4	10.2	2.9
F(5%)		n.s.	s	n.s.	s
BIO 265		12.0	81.3	19.3	30.1
115-08-01		11.5	80.2	22.7	32.2
35A019		11.7	84.0	20.3	31.0
PRO 379		11.5	78.2	24.8	35.3
SEED TECH 2324 (C)		11.7	79.5	20.5	31.6
BULAND (C)		11.3	79.1	16.8	28.3
BIO 9681 (C)		10.3	83.2	14.6	32.4
C.D.(5%)Bi-Bj		0.7	1.6	2.3	1.4
C.V.(%)ErrorB		6.2	2.1	12.2	4.5
F(5%)		s	s	s	s

A – 14

Table 4: Performance of pre-release full season genotypes under different nutrient levels at Zone V.

$N:P_2O_5:K_2O$ (kg/ha)	Germplasm	Grain yield (kg/ha)		Cob yield (kg/ha)	No. of plants ('000/ha)	
		Banswara	Udaipur	Banswara	Banswara	Udaipur
150:65:65	BIO 265	7222	4828	9944	76.9	64.4
	115-08-01	5833	2958	8139	65.0	52.5
	35A019	8333	5777	11617	83.3	62.5
	PRO 379	7861	5035	11139	76.4	61.7
	SEED TECH 2324 (C)	6278	4636	8972	75.0	55.8
	BULAND (C)	7556	2851	10278	77.2	62.5
	BIO 9681 (C)	2472	1925	3417	16.9	40.0
200:80:80	BIO 265	7806	5023	10444	81.7	65.2
	115-08-01	7222	3022	9750	73.9	53.3
	35A019	9944	5909	13417	83.3	62.5
	PRO 379	7861	5222	10417	81.7	61.7
	SEED TECH 2324 (C)	7944	4330	10444	81.1	56.0
	BULAND (C)	8278	3025	10806	83.3	62.7
	BIO 9681 (C)	3222	2028	4167	18.3	40.8
250:95:95	BIO 265	7744	5034	10194	80.0	64.8
	115-08-01	9500	3022	12306	83.3	52.5
	35A019	10361	5901	13278	83.3	62.7
	PRO 379	8722	5224	11639	82.8	61.9
	SEED TECH 2324 (C)	8000	4327	10556	82.2	56.0
	BULAND (C)	8444	3023	10944	82.8	62.9
	BIO 9681 (C)	4528	2025	5861	20.8	40.0
Location mean		7387.3	4053.4	9891.8	70.9	57.3
C.D.(5%) AiBj-AiBk		1217.4	267.5	1513.4	6.4	3.6
C.D.(5%) AiBk-AjBk		1733.3	694.3	2070.7	8.8	5.3
F(5%)		s	n.s.	s	n.s.	n.s.
150:65:65		6508	4001	9072	67.3	57.1
200:80:80		7468	4080	9921	71.9	57.5
250:95:95		8186	4079	10683	73.6	57.3
C.D.(5%) Ai-Aj		1344.7	650.5	1559.1	6.7	4.2
C.V.(%) Error A		21.2	24.5	18.4	11.0	11.2
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.
BIO 265		7591	4961	10194	79.5	64.8
115-08-01		7519	3000	10065	74.1	52.8
35A019		9546	5862	12770	83.3	62.6
PRO 379		8148	5160	11065	80.3	61.7
SEED TECH 2324 (C)		7407	4431	9991	79.4	56.0
BULAND (C)		8093	2966	10676	81.1	62.7
BIO 9681 (C)		3407	1992	4481	18.7	40.3
C.D.(5%)Bi-Bj		702.9	154.5	873.8	3.7	2.1
C.V.(%)ErrorB		9.9	4.7	9.2	5.4	4.4
F(5%)		s	s	s	s	s

Cont….

A – 15

$N:P_2O_5:K_2O$ (kg/ha)	Germplasm	No. of cobs ('000/ha)		Plant height (cm)		Days to 50% silking	Shelling (%)
		Banswara	Udaipur	Banswara	Udaipur	Banswara	Udaipur
150:65:65	BIO 265	80.6	66.7	249.0	237.0	92.7	81.2
	115-08-01	74.4	52.5	247.0	203.8	95.7	80.8
	35A019	94.7	63.3	276.7	235.5	89.7	84.3
	PRO 379	89.2	61.9	229.3	200.3	86.3	79.4
	SEED TECH 2324 (C)	77.2	54.4	247.3	201.3	95.3	86.4
	BULAND (C)	84.7	60.4	267.7	218.3	95.7	77.2
	BIO 9681 (C)	28.6	39.0	208.0	219.0	97.3	83.3
200:80:80	BIO 265	86.7	67.5	257.7	239.3	95.3	81.3
	115-08-01	80.0	52.5	252.7	202.8	97.0	82.3
	35A019	110.3	62.3	288.0	234.5	93.7	84.4
	PRO 379	84.7	62.3	239.0	201.0	87.7	80.2
	SEED TECH 2324 (C)	88.3	54.2	254.7	202.0	97.0	77.2
	BULAND (C)	89.4	60.0	274.3	219.5	95.0	72.0
	BIO 9681 (C)	33.3	39.6	220.0	220.5	97.0	83.3
250:95:95	BIO 265	82.5	67.5	264.3	237.0	97.3	81.8
	115-08-01	100.3	52.5	258.0	202.5	97.0	83.8
	35A019	108.6	62.3	296.0	235.0	96.7	84.4
	PRO 379	96.4	62.7	245.3	202.5	87.3	79.2
	SEED TECH 2324 (C)	85.6	54.4	260.3	202.0	91.3	65.4
	BULAND (C)	86.9	61.0	276.7	221.8	99.3	77.4
	BIO 9681 (C)	45.0	40.4	224.7	223.0	99.3	83.2
Location mean		81.3	57.0	254.1	217.1	94.5	80.4
C.D.(5%) AiBj-AiBk		10.7	3.7	6.1	15.0	3.4	3.8
C.D.(5%) AiBk-AjBk		15.4	5.6	5.9	23.0	3.3	5.7
F(5%)		s	n.s.	n.s.	n.s.	s	s
150:65:65		75.6	56.9	246.4	216.4	93.2	81.8
200:80:80		81.8	56.9	255.2	217.1	94.7	80.1
250:95:95		86.5	57.3	260.8	217.7	95.5	79.3
C.D.(5%) Ai-Aj		12.1	4.5	1.8	18.4	1.1	4.5
C.V.(%) Error A		17.4	12.1	0.8	13.0	1.4	8.5
F(5%)		n.s.	n.s.	s	n.s.	s	n.s.
BIO 265		83.2	67.2	257.0	237.8	95.1	81.4
115-08-01		84.9	52.5	252.6	203.0	96.6	82.3
35A019		104.5	62.6	286.9	235.0	93.3	84.4
PRO 379		90.1	62.3	237.9	201.3	87.1	79.6
SEED TECH 2324 (C)		83.7	54.3	254.1	201.8	94.6	76.3
BULAND (C)		87.0	60.5	272.9	219.8	96.7	75.5
BIO 9681 (C)		35.6	39.7	217.6	220.8	97.9	83.3
C.D.(5%)Bi-Bj		6.2	2.1	3.5	8.7	1.9	2.2
C.V.(%)ErrorB		7.9	4.6	1.5	4.9	2.1	3.4
F(5%)		s	s	s	s	s	s

Table 5: Agrotechnics for seed production of inbred parent of DHM 117 i.e. Female BML-6 at Karimnagar.

Spacing	Fertility level	Seed yield (kg/ha)	Cob yield (kg/ha)	Plant height (cm)	Cob length (cm)	Cob girth (cm)	No. of kernel rows	No. of kernels/ rows
S_1	F_1	2533	3549	138.2	14.2	14.4	15.0	31.3
	F_2	2956	3937	148.1	14.9	15.0	15.7	33.8
	F_3	3274	4405	152.4	14.2	15.1	15.3	32.9
	F_4	3126	4003	153.9	13.7	14.6	15.3	32.2
S_2	F_1	2879	4063	142.0	13.3	14.2	15.0	30.0
	F_2	2915	4087	146.7	13.7	14.6	15.3	32.5
	F_3	3340	4371	147.8	14.5	14.5	15.4	32.0
	F_4	3103	3907	151.9	14.7	14.1	15.0	31.2
Location mean		3015.5	4040.1	147.6	14.1	14.6	15.3	32.0
C.D.(5%) AiBj-AiBk		525.6	860.3	9.4	1.6	1.1	1.9	8.5
C.D.(5%) AiBk-AjBk		551.1	821.1	14.4	1.8	1.8	4.2	9.5
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
S_1		2972	3973	148.2	14.3	14.8	15.3	32.6
S_2		3059	4107	147.1	14.0	14.4	15.2	31.4
C.D.(5%) Ai-Aj		350.0	392.5	12.9	1.3	1.6	4.1	6.7
C.V.(%) Error A		6.6	5.5	5.0	5.1	6.2	15.3	12.0
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
F_1		2706	3806	140.1	13.7	14.3	15.0	30.7
F_2		2935	4012	147.4	14.3	14.8	15.5	33.2
F_3		3307	4388	150.1	14.3	14.8	15.4	32.5
F_4		3115	3955	152.9	14.2	14.4	15.2	31.7
C.D.(5%)Bi-Bj		371.7	608.3	6.6	1.1	0.8	1.3	6.0
C.V.(%)ErrorB		9.8	12.0	3.6	6.4	4.3	7.0	15.0
F(5%)		s	n.s.	s	n.s.	n.s.	n.s.	n.s.

Treatment details:

Main plot: Plant Population (plants/ha)

S1: 75,000 (67 x 20) cm

S2: 60,000 (67 x 25 cm)

B) Sub treatments

Sub plot: Fertility levels (N:P_2O_5:K_2O, kg/ha)

F1: 200-75-75 Kg

F2: FYM (15 t/ha) + 200-75-75

F3: FYM (15 t/ha) + 250-90-90

F4: FYM (15 t/ha) + 300-105-105

Zinc Sulphate @ 50 kg/ha common for all

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Table 6: Agrotechnics for seed production of inbred parent of DHM 117 i.e. Male BML-7 at Karimnagar.

Spacing	Fertility level	Seed yield (kg/ha)	Cob yield (kg/ha)	Plant height (cm)	Ear height (cm)	Cob length (cm)	Cob girth (cm)	No. of kernel rows	No. of kernels/rows	Single cob weight (g)
S_1	F_1	3652	5620	157.3	68.7	16.6	15.4	15.0	27.8	193.3
	F_2	4111	6409	152.0	69.7	17.5	15.4	15.3	28.2	222.5
	F_3	4156	6647	161.0	72.0	17.6	16.3	15.3	28.5	240.0
	F_4	4134	6545	162.7	75.0	18.2	15.8	15.3	31.8	217.5
S_2	F_1	3452	4834	158.3	72.7	16.9	15.3	14.3	25.0	195.8
	F_2	3853	6152	164.0	77.0	17.7	15.7	14.7	28.7	196.8
	F_3	3878	6427	174.7	77.7	18.3	17.0	14.7	31.2	215.8
	F_4	3782	6380	161.7	71.0	18.1	16.0	15.0	29.2	211.5
Location mean		3877.2	6126.6	161.5	73.0	17.6	15.8	15.0	28.8	211.7
C.D.(5%) AiBj-AiBk		368.3	1037.6	17.8	6.4	1.5	2.0	1.9	7.3	30.8
C.D.(5%) AiBk-AjBk		629.2	1295.6	17.3	14.0	1.3	2.1	2.0	11.7	33.1
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
S_1		4013	6305	158.3	71.3	17.5	15.7	15.3	29.1	218.3
S_2		3741	5948	164.7	74.6	17.8	16.0	14.7	28.5	205.0
C.D.(5%) Ai-Aj		582.0	1032.0	9.1	13.5	0.2	1.3	1.3	10.7	22.1
C.V.(%) Error A		8.5	9.6	3.2	10.5	0.6	4.7	4.9	21.1	5.9
F(5%)		n.s.	n.s.	n.s.	n.s.	s	n.s.	n.s.	n.s.	n.s.
F_1		3552	5227	157.8	70.7	16.8	15.3	14.7	26.4	194.6
F_2		3982	6280	158.0	73.3	17.6	15.6	15.0	28.4	209.7
F_3		4017	6537	167.8	74.8	18.0	16.6	15.0	29.8	227.9
F_4		3958	6462	162.2	73.0	18.1	15.9	15.2	30.5	214.5
C.D.(5%)Bi-Bj		260.4	733.7	12.6	4.6	1.0	1.4	1.3	5.2	21.8
C.V.(%)ErrorB		5.3	9.5	6.2	5.0	4.7	7.1	7.0	14.2	8.2
F(5%)		s	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	s

Treatment details:

Main plot: Plant Population (plants/ha)

S1: 75,000 (67 x 20) cm

S2: 60,000 (67 x 25 cm)

B) Sub treatments

Sub plot: Fertility levels ($N:P_2O_5:K_2O$, kg/ha)

F1: 200-75-75 Kg

F2: FYM (15 t/ha) + 200-75-75

F3: FYM (15 t/ha) + 250-90-90

F4: FYM (15 t/ha) + 300-105-105

Zinc Sulphate @ 50 kg/ha common for all

A – 18

Table 7: Effect of plant density and fertility levels on productivity of maize under rainfed condition at Vagarai.

Row arrangement	Plant population	Residue level	Grain yield (kg/ha)	Cob yield (kg/ha)	Plant stand ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Ear height (cm)	Shelling (%)	Moisture (%)
L_1	P_1	R_1	3008	3526	60.3	48.0	188.7	96.5	84.5	14.0
		R_2	2998	3702	66.7	46.7	177.2	98.2	80.9	16.0
	P_2	R_1	3626	4318	69.0	43.0	184.7	92.1	84.1	14.8
		R_2	2795	3387	61.0	41.0	182.1	100.3	82.7	16.2
	P_3	R_1	4048	4917	75.7	40.3	173.7	93.3	82.4	16.9
		R_2	4309	5165	75.3	48.0	187.9	102.1	83.7	15.6
L_2	P_1	R_1	2408	2941	60.3	27.7	163.1	83.1	81.9	16.3
		R_2	2732	3336	61.3	32.3	160.4	82.1	82.0	19.0
	P_2	R_1	3115	3842	64.7	28.7	165.0	83.5	81.1	16.2
		R_2	3143	3952	59.7	36.3	155.5	83.7	79.6	18.6
	P_3	R_1	3755	4622	73.0	30.7	155.9	87.4	81.3	16.6
		R_2	3887	4658	69.0	47.0	152.9	84.5	83.4	16.1
Mean of location			3318.6	4030.5	66.3	39.1	170.6	90.6	82.3	16.4
L_1			3464	4169	68.0	44.5	182.4	97.1	83.0	15.6
L_2			3173	3892	64.7	33.8	158.8	84.0	81.5	17.1
C. D. at 5%			387.4	486.5	5.8	7.1	9.2	4.2	1.2	1.9
Significance			N.S.	N.S.	N.S.	S	S	S	S	N.S.
P_1			2786	3376	62.2	38.7	172.4	90.0	82.3	16.3
P_2			3170	3875	63.6	37.3	171.8	89.9	81.9	16.5
P_3			4000	4841	73.3	41.5	167.6	91.8	82.7	16.3
C. D. at 5%			474.5	595.8	7.1	8.6	11.3	5.2	1.5	2.4
Significance			S	S	S	N.S.	N.S.	N.S.	N.S.	N.S.
R_1			3327	4028	67.2	36.4	171.8	89.3	82.5	15.8
R_2			3310	4033	65.5	41.9	169.3	91.8	82.0	16.9
C. D. at 5%			387.4	486.5	5.8	7.1	9.2	4.2	1.2	1.9
Significance			N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.

Treatment details:

Main plot: Row spacing

L1: Equal row at 67 cm

L2: Paired row (84:50 cm)

Sub sub plot: Residue level

R1: Clean field

R2: Residue retention as mulch (5t/ha)

Sub plot:Sub plot: Plant geometry (plants/ha)

P1: 40000 (Plant to plant spacing 37 cm)

P2: 50000 (Plant to plant spacing 30 cm)

P3: 60000 (Plant to plant spacing 25 cm)

Table 8: Effects of plant density and fertility levels on the productivity of maize under rice-maize system at Hyderabad.

Plant density	Fertility levels	Grain Yield (kg/ha)	Cob Yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant Height (cm)	Days to 50% Flowering
60,000 (67x25 cm)	150:60:60	6037	7425	57.8	43.9	191.0	62.3
	200:75:75	7121	7758	58.7	50.4	204.3	62.7
	250:90:90	7442	9186	58.5	51.9	216.0	63.0
	300:105:105	7633	9436	60.2	52.2	223.3	63.3
66,666 (67x22.5 cm)	150:60:60	6609	7590	60.0	57.4	196.7	62.7
	200:75:75	7583	8393	63.0	61.9	223.0	63.0
	250:90:90	7964	9593	65.6	64.6	232.7	63.3
	300:105:105	8188	9780	65.6	65.2	237.7	64.0
75,000 (67x20 cm)	150:60:60	7625	7344	65.6	65.9	226.3	58.3
	200:75:75	8157	8404	69.3	69.1	235.7	60.0
	250:90:90	8712	10618	71.5	69.3	241.0	62.7
	300:105:105	8827	10442	72.6	70.4	243.3	61.3
Location mean		7658.2	8830.9	64.0	60.2	222.6	62.2
C.D.(5%) AiBj-AiBk		1400.7	1237.4	2.9	3.3	14.4	1.2
C.D.(5%) AiBk-AjBk		1392.9	1307.5	3.6	3.2	14.2	2.0
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	s
60,000 (67x25 cm)		7058	8451	58.8	49.6	208.7	62.8
66,666 (67x22.5 cm)		7586	8839	63.5	62.3	222.5	63.3
75,000 (67x20 cm)		8330	9202	69.7	68.7	236.6	60.6
C.D.(5%) Ai-Aj		702.3	766.8	2.7	1.6	7.0	1.7
C.V.(%) Error A		8.1	7.7	3.7	2.3	2.8	2.4
F(5%)		s	n.s.	s	s	s	s
150:60:60		6757	7453	61.1	55.7	204.7	61.1
200:75:75		7620	8185	63.6	60.4	221.0	61.9
250:90:90		8039	9799	65.2	61.9	229.9	63.0
300:105:105		8216	9886	66.1	62.6	234.8	62.9
C.D.(5%)Bi-Bj		808.7	714.4	1.7	1.9	8.3	0.7
C.V.(%)ErrorB		10.7	8.2	2.7	3.2	3.8	1.1
F(5%)		s	s	s	s	s	s

Table 9: Evaluating of the Interactive effect of plant density, geometry and fertility levels on productivity for irrigated ecology at Dholi.

Plant density	Fertility levels ($N:P_2O_5:H_2O:ZnSO_4$)	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plant ('000/ha)	No. of Cobs ('000/ha)	Days to 50% tasseling	Days to 50% silking	Days of Brown Husk	Plant height (cm)	Ear height (cm)
60,000 (67x25 cm)	120:60:40	4677	5954	59.0	58.0	131.3	136.3	166.0	150.9	70.9
	200:75:75:25	12143	15489	59.4	59.2	129.7	134.3	166.3	150.3	72.4
	250:90:90:25	11934	15124	59.5	60.2	130.0	136.3	166.3	139.7	76.3
	300:105:105:25	12459	15821	59.2	60.7	128.0	132.7	167.7	161.3	75.4
66,000 (67x22.5 cm)	120:60:40	5915	7529	67.3	66.0	132.3	138.0	168.7	140.7	64.5
	200:75:75:25	13612	17363	66.8	65.5	130.3	135.0	168.0	159.9	72.3
	250:90:90:25	13570	17197	66.8	67.2	131.3	134.7	167.7	157.6	73.7
	300:105:105:25	14247	18093	66.8	67.5	130.7	134.3	167.7	167.1	77.2
75,000 (67x20 cm)	120:60:40	6814	8673	73.1	71.1	133.3	137.7	169.0	156.2	73.9
	200:75:75:25	15409	19652	73.6	72.3	131.7	136.7	169.0	160.7	73.5
	250:90:90:25	15023	19038	74.0	74.6	130.7	135.0	168.3	157.9	73.5
	300:105:105:25	15448	19619	74.5	75.0	131.0	135.7	168.7	156.5	72.4
Location mean		11771.0	14962.7	66.7	66.4	130.9	135.6	167.8	154.9	73.0
C.D.(5%) AiBj-AiBk		458.9	527.5	1.1	1.1	3.9	3.8	1.8	20.4	9.8
C.D.(5%) AiBk-AjBk		1286.6	1620.0	1.0	1.2	3.6	3.4	1.7	18.8	9.7
F(5%)		s	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
60,000 (67x25cm)		10303	13097	59.3	59.5	129.8	134.9	166.6	150.6	73.7
66,000 (67x22.5 cm)		11836	15046	67.0	66.5	131.2	135.5	168.0	156.3	71.9
75,000 (67x20 cm)		13174	16745	73.8	73.3	131.7	136.3	168.8	157.8	73.3
C.D.(5%) Ai-Aj		1229.2	1560.3	0.3	0.6	1.3	0.8	0.7	6.5	4.7
C.V.(%) Error A		9.2	9.2	0.4	0.9	0.9	0.5	0.4	3.7	5.7
F(5%)		s	s	s	s	s	s	s	n.s.	n.s.
120:60:40		5802	7385	66.5	65.1	132.3	137.3	167.9	149.3	69.8
200:75:75:25		13722	17501	66.6	65.7	130.6	135.3	167.8	157.0	72.7
250:90:90:25		13509	17120	66.8	67.3	130.7	135.3	167.4	151.7	74.5
300:105:105:25		14051	17844	66.8	67.7	129.9	134.2	168.0	161.6	75.0
C.D.(5%)Bi-Bj		265.0	304.5	0.6	0.7	2.3	2.2	1.0	11.8	5.7
C.V.(%)ErrorB		2.3	2.1	0.9	1.0	1.8	1.6	0.6	7.7	7.8
F(5%)		s	s	n.s.	s	n.s.	n.s.	n.s.	n.s.	n.s.

Table 10: Performance of maize hybrids to adopt rainfall changes and climatic aberrations at Vagarai.

Date of sowing	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	Plant stand ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Ear height (cm)	Shelling (%)	Moisture (%)
D_1	H_1	2709	3218	68.3	66.4	156.8	59.6	84.2	9.7
	H_2	2387	2809	66.9	62.6	139.4	49.6	85.1	9.6
	H_3	2610	3026	66.0	63.4	116.5	51.1	86.3	10.8
	H_4	2288	2704	44.4	42.7	126.1	54.3	84.7	10.6
D_2	H_1	2926	3539	80.1	77.1	152.3	60.4	82.7	10.3
	H_2	2634	3172	74.1	71.5	145.6	67.4	83.1	9.6
	H_3	3055	3500	77.8	74.1	134.2	62.7	87.3	10.8
	H_4	2769	3156	71.5	68.3	140.6	65.5	87.7	10.2
D_3	H_1	2833	3345	71.1	69.7	139.1	58.4	84.7	10.4
	H_2	2711	3110	65.7	64.1	118.5	56.7	87.1	9.5
	H_3	2936	3381	69.7	68.5	109.9	53.5	86.8	9.8
	H_4	2606	3020	69.0	66.5	112.5	55.3	86.3	10.2
D_4	H_1	2574	3057	68.8	67.4	130.5	47.6	84.2	9.0
	H_2	2497	3015	56.9	55.8	121.9	58.6	82.9	9.8
	H_3	2712	3179	70.6	69.4	119.6	55.6	85.3	9.8
	H_4	2484	2984	60.2	58.1	119.0	56.3	83.2	10.5
Mean of location		2670.7	3138.5	67.6	65.3	130.2	57.1	85.1	10.0
C.D. at 5 %		254.0	291.3	9.7	7.9	13.1	10.1	2.7	1.6
F		n.s.	n.s.	s	s	n.s.	n.s.	n.s.	n.s.
D_1		2499	2939	61.4	58.8	134.7	53.7	85.1	10.2
D_2		2846	3342	75.9	72.7	143.2	64.0	85.2	10.2
D_3		2771	3214	68.9	67.2	120.0	56.0	86.2	10.0
D_4		2567	3059	64.1	62.7	122.7	54.6	83.9	9.8
C.D. at 5 %		127.0	145.7	4.8	3.9	6.6	5.0	1.4	0.8
F		s	s	s	s	s	s	s	n.s.
H_1		2761	3290	72.0	70.1	144.7	56.5	84.0	9.8
H_2		2557	3027	65.9	63.5	131.4	58.1	84.5	9.6
H_3		2828	3272	71.0	68.9	120.1	55.7	86.4	10.3
H_4		2537	2966	61.3	58.9	124.6	57.9	85.5	10.4
C.D. at 5 %		127.0	145.7	4.8	3.9	6.6	5.0	1.4	0.8
C.V. %		5.7	5.6	8.6	7.2	6.1	10.6	1.9	9.6
F		s	s	s	s	s	n.s.	s	n.s.

Treatment details	
Main plot: Sowing date	**Sub plot: Maize hybrids**
D1: 10 days advance from NDS (15.09.2011)	H1: CMH 08282
D2: Normal Date of Sowing (NDS)- (25.09.2011)	H2: COH(M)5
D3: 10 days delayed from NDS (05.10.2011)	H3: 900 M Gold
D4: 20 days delayed from NDS (15.10.2011)	H4: NK 6240

Table 11: Integrated weed management in maize under rice-maize systems at Hyderabad.

Treatment	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plants ('000/ha)	No. of cobs ('000/ha)	Plant Height (cm)	Days to 50% Tasseling	Days to 50% silking
T_1	4053	4938	64.0	52.0	140.1	62.0	64.3
T_2	4349	5264	67.1	54.0	147.8	61.7	64.7
T_3	7560	9389	67.3	60.4	167.7	62.0	65.0
T_4	6122	7427	65.8	59.6	150.0	63.0	64.0
T_5	4480	5700	62.4	51.6	144.8	62.7	64.0
T_6	3616	4778	68.7	42.4	139.1	63.0	65.7
T_7	7173	9333	56.4	58.2	166.9	61.3	66.0
T_8	5244	6284	66.0	60.4	166.4	62.0	65.0
Mean	5324.7	6639.2	64.7	54.8	152.9	62.2	64.8
CD	1042.5	988.5	5.4	7.8	23.6	1.4	1.2
CV (%)	11.2	8.5	4.8	8.1	8.8	1.3	1.0
Significance	S	S	S	S	N.S.	N.S.	S

Treatment	Cob length (cm)	Cob width (cm)	No. of grain rows/cob	100 grain weight (g)
T_1	13.8	12.9	13.5	22.8
T_2	13.1	13.5	13.7	23.1
T_3	14.3	13.5	14.2	24.1
T_4	13.6	13.4	14.7	25.1
T_5	13.0	13.1	13.2	26.9
T_6	12.7	12.8	12.9	22.8
T_7	13.4	13.6	14.3	27.2
T_8	14.0	13.0	13.7	21.9
Mean	13.5	13.2	13.8	24.2
CD	0.7	0.5	0.7	1.1
CV (%)	2.9	2.1	3.1	2.6
Significance	S	S	S	S

Treatment details For maize:

T_1 - Atrazine @ 1.0 kg ai/ha as pre-eme fb Atrazine @ 0.75 kg ai/ha 25-30 DAS

T_2 - Atrazine @ 1.0 kg ai/ha as pre-eme fb 2,4-D sodium salt @ 0.4 kg ai/ha 25-30 DAS

T_3 - Glyphosate @1.0 kg a.i./ha pre plant fb Atrazine @ 0.75 kg ai/ha as post-eme

T_4 - Glyphosate @1.0 kg a.i./ha pre plant fb 2,4-D sodium salt @ 0.4 kg a.i./ha 25-30 DAS

T_5 - Metribuzine @ 0.25 kg a.i /ha as pre-eme fb Atrazine @ 0.75 kg ai/ha 25-30

T_6 - Weedy check

T_7 - Weed free

T_8 - Atrazine @ 1.0 kg ai/ha as pre-eme fb Topramezone @ 25.2 kg ai/ha 25-30 DAS

Table 12: Weed management strategies for diverse weed flora in rice-maize cropping system at Pantnagar.

Treatment	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of plant ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Ear height (cm)	100 grain weight (g)	Net return (``/ha)	B:C ratio
T_1	7756	9244	78.0	81.1	186.3	74.0	22.1	51340	2.3
T_2	6778	8400	75.6	80.7	183.0	70.3	22.1	42262	1.9
T_3	4956	6133	74.4	78.4	149.7	66.3	20.5	25211	1.2
T_4	6844	8267	72.9	75.8	181.3	73.7	23.2	42934	1.9
T_5	5533	7356	72.4	76.0	172.7	64.3	20.7	30732	1.4
T_6	3267	4422	66.0	68.9	158.3	56.7	19.5	10300	0.5
T_7	6156	7600	80.9	80.4	183.7	71.0	21.7	33745	1.4
Mean	5898.4	7346.0	74.3	77.3	173.6	68.0	21.4	33789.1	1.5
CD	509.0	869.0	6.7	8.9	25.8	7.4	1.6	4835.0	0.2
CV (%)	4.8	6.6	5.1	6.5	8.3	6.1	4.2	8.0	8.0
Significance	S	S	S	N.S.	N.S.	S	S	S	S

Treatment	Number of weeds at 50			Number of weeds at			Dry weight (g) of weeds at		
	Broad leaves (non grassy weeds)	Narrow leaves (grassy weeds)	Sedges	Broad leaves (non grassy weeds)	Narrow leaves (grassy weeds)	Sedges	Broad leaves (non grassy weeds)	Narrow leaves (grassy weeds)	Sedges
T_1	0.0	18.3	100.0	0.0	163.3	114.7	0.0	82.1	28.0
T_2	0.3	0.0	45.7	0.3	113.0	33.3	0.3	108.3	9.3
T_3	6.0	43.3	53.3	19.7	144.3	43.7	27.0	89.5	12.7
T_4	0.0	0.0	125.0	0.7	147.7	117.7	4.1	98.8	29.5
T_5	0.0	1.0	72.7	0.0	194.3	27.7	0.0	253.2	10.0
T_6	15.0	175.0	10.3	7.0	38.7	25.0	64.5	114.6	9.4
T_7	4.0	56.0	12.3	2.7	43.3	62.0	3.5	20.5	18.1
Mean	3.6	42.0	59.9	4.3	120.7	60.6	14.2	109.6	16.7
CD	3.0	40.9	59.2	5.3	55.8	22.7	10.8	56.6	11.1
CV (%)	46.7	54.7	55.6	68.4	26.0	21.0	42.8	29.0	37.2
Significance	S	S	S	S	S	S	S	S	S

Treatment details:

T_1 - Atrazine 1.0 kg a.i./ha PE fb Atrazine 0.75 kg a.i./ha 25-30 DAS

T_2 - Atrazine 1.0 kg a.i./ha PE fb 2,4-D @ 0.4 kg a.i./ ha 25-30 DAS

T_3 - Glyphosate @ 1.0 kg a.i./ha as pre plant fb 2,4-D @ 0.4 kg a.i./ha 25-30 DAS

T_4 - Glypgosate @ 1.0 kg a.i./ha as pre plant fb Atrazine 0.75 kg a.i./ha PE

T_5 - Metribuzine 0.25 kg a.i./ha PE fb Atrazine 0.75 kg a.i./ ha at 25-30 DAS

T_6 - Weedy check

T_7 - Weed free

Table 13: Weed management strategies for diverse weed flora in maize- wheat cropping systems at Pantnagar.

Treatment	Wheat grain yield (Kg/ha)
T1: Atrazine @1.0 kg ai/ha PE (National Check)	4388.9
T2: Metribuzin @ 0.25 kg ai/ha PE	4056
T3: Oxyflourfen @ 0.15 kg ai/ha PE	3889
T4: Atrazine @1.0 kg ai/ha PE + Atrazine @0.5 kg ai/ha PE , 25-30 DAS	4056
T5: Atrazine @1.0 kg ai/ha PE + One hoeing at 20-25 DAS	4306
T6: Metribuzin @ 0.25 kg ai/ha PE + One hoeing at 20-25 DAS	4222
T7: Oxyflourfen @ 0.15 kg ai/ha PE + One hoeing at 20-25 DAS	4139
T8: Maize + Cover crop (Cowpea 2 rows)	4472
T9: Maize + Cover crop (Mungbean 2 rows)	4333
T10: Weedy check	3861
T11: Weed free	4333
Mean	4186.9
CD	542.8
CV (%)	7.6
Significance	N.S.

Table 14: Tillage management in maize based cropping sequences (Wheat-maize) at Dholi.

Treatment	Grain yield (kg/ha)	No. of Plant/m2	No. of Spicklets	Days of germination	Plant height (cm)	Ear of Length (cm)	Days of flowering	Days of maturity
Permanent bed	4799	402.3	45.8	8.0	99.3	11.3	83.3	122.0
FlatBed	4468	444.5	45.0	8.5	96.0	11.7	83.8	123.8
Zero till	4818	462.0	44.5	7.8	92.0	10.9	84.8	122.8
Conventional.	4368	365.5	44.5	8.3	96.0	11.5	83.3	122.0
Mean	4612.8	418.6	44.9	8.1	95.8	11.3	83.8	122.6
CD	305.1	33.4	4.0	1.3	2.2	0.7	2.9	2.7
CV (%)	4.1	5.0	5.6	9.8	1.4	4.0	2.1	1.4
Significance	S	S	N.S.	N.S.	S	N.S.	N.S.	N.S.

PATHOLOGY

Pathology

Rabi 2011-12

INTRODUCTION

During *Rabi* 2011 – 2012, various maize genotypes were screened and evaluated against various disease *viz. Turcicum* Leaf Blight (TLB), Downy Mildew (DM), and Post Flowering Stalk Rots (PFSR) in one coordinated trial at hot spot locations of AICRIP centres (Mandya, Hyderabad, Coimbatore, Ludhiana & Arbhavi) under artificial epipthytotic conditions.

A total of 84 elite lines were evaluated against major disease of maize **(Table: 1)** under artificial epiphytotic condition at various hot spot location i.e. TLB at Mandya, Charcoal Rot at Ludhiana, DM at Coimbatore and PFSR at Arbhavi and Hyderabad. Out of them 26 lines were found resistant against TLB, zero against C. Rot, 32 against PFSR at Arbhavi and 26 at Hyderabad. Some the promising lines having resistance against one or more diseases are mentioned below:

BIO 256	PFSR	BIO 9681(C)	TLB
DMRNH 2	PFSR	NMH-1242	TLB
35A019	PFSR	BIO 9637 (C)	TLB
PRO 379	PFSR	Bisco x – 5141	PFSR
CMH08-282	PFSR	HKH-416	TLB
NMH-713	TLB	KH – B 54	PFSR
NMH-920	DM	DMR- 361	TLB, PFSR
Bisco X -5129	PFSR	PRO 386	TLB, PFSR
HKH 402	TLB	JH - 289	TLB, PFSR
KMH -2689	TLB	JH - 270	TLB, PFSR
KMH -2700(25K45)	DM	CMH08-239	TLB, PFSR
NK 6607	TLB	CMH08-287	TLB, PFSR
S 7700	PFSR	RJMH-2 BY 1	TLB, PFSR
S7720	PFSR	BIO 151	DM, PFSR
PRO 380	PFSR	SEEDTECH 2324 (C)	TLB, DM, PFSR
DHM 117	TLB	HKH 323	TLB,DM,PFSR
HM 11(C)	PFSR		

Out of 200 elite lines screened against charcoal rot at Hyderabad during *Rabi* 2011-12, P390Am/CML c4 F230-B-2-1-2-2-B-B-B, P72c1xBrasil 1177-2-2-1-B-B, HKI 1040-5, CUBA 380, CML 172, SC 24-(C12)-3-2-1-1, HYD05R/13-2, LM16, CM144, ae40, CM 117-3-4-1-2-2-1, CML 3, CM 117-3-4-1-2-3-1, JCY3-7-1-2-1-B-2-3-2-1-3-1, KML 225, SW-930-313-23-PO-49-54-1-3-1-1-1-2-1-2-3-1-1-2, WINPOP-1, La Posta Seq C7-F10-3-1-2-3-B-B-B-B-B-B, KML 3-3, HKI 1128, JCS-3-7-1-2-2-1-3-1-2-17-1-2-5-1, KML 3-1 and PFSR-R2-2 were resistant against charcoal rot in **(Table: 2).**

Out of 84 elite lines screened against TLB at Mandya during *Rabi* 2011-12, LM15, CM 144, ae-40, CML 141, HKI 164-3 (2-1)-1, HKI 164-7-4, HKI-164-7-4-2, HKI 191-1-2-5, HKI-193-2-2-4, HKI 193-1, PFSR - R9, PFSR - R10, PFSR - S2, PFSR - S3, JCY3-7-1-2-1-'B-1-1-4-1 and JCY3-7-1-2-1-B-2-1-2-1 were resistant against TLB in **(Table: 3).**

Table 1: Evaluation of maize genotypes against various diseases during *Rabi* 2011-12

S.No	Padigree	TLB (1-5) MND	SDM (%) COIM	PFSR C. Rot (1-9) LUD	ARB	HYD
1	BIO 265	2.8	0.0	4.8	3.0	2.2
2	DMRNH 2	2.8	8.8	3.4	2.8	1.4
3	115-08-01	4.3	0.0	4.6	4.5	6.2
4	35A019	3.3	0.0	3.8	5.5	1.4
5	PRO379	2.7	0.0	4.0	1.5	1.6
	AET 1st (L)					
6	CMH08-239	2.0	0.0	3.7	1.3	1.9
7	CMH08-259	3.5	0.0	4.4	3.5	3.6
8	CMH08-282	3.8	0.0	4.6	1.5	1.6
9	CMH08-287	2.0	0.0	3.0	3.5	2.1
10	NMH-731	4.0	0.0	3.7	3.3	4.8
	Nithyashree (Resistant check)	1.0	-	-	-	-
	219J (Susceptible check)	4.8	-	-	-	-
11	NMH-713	2.0	0.0	3.4	6.8	5.3
12	NMH-920	3.5	5.7	3.3	7.0	6.1
13	NMH-666	4.3	0.0	3.7	8.0	5.7
14	Bisco New 704	3.3	0.0	4.3	5.5	4.3
15	Bisco X -5129	4.5	0.0	4.2	2.5	5.4
16	Bisco X -9	3.8	0.0	5.1	4.0	3.1
17	HKH 402	2.0	0.0	4.1	8.3	4.7
18	HKH 408	4.3	0.0	4.4	5.0	5.2
19	KH -274	4.3	0.0	5.1	4.5	4.8
20	KMH -2689	2.0	0.0	3.8	5.5	4.8
	Nithyashee (Resistant check)	1.0	-	-	-	-
	219J (Susceptible check)	4.8	-	-	-	-
21	KMH -2700(25K45)	4.3	6.6	4.7	6.5	5.0
22	NK 6607	2.0	0.0	5.3	5.0	4.6
23	S 7700	4.0	0.0	4.8	3.0	4.9
24	S7720	3.5	0.0	3.7	1.0	2.4
25	RJ-2020	3.8	0.0	4.4	7.0	2.9
26	RJMH-2 By 1	2.0	0.0	4.0	1.5	3.3
27	A 7503	3.5	0.0	4.4	6.3	3.7
28	PRO 380	2.5	0.0	3.1	2.5	2.4
29	DHM 117	2.0	0.0	4.5	5.5	4.3
	Checks- Late					
30	HM 11(C)	4.3	0.0	3.6	3.0	2.3
	Nithyashree (Resistant check)	1.0	-	-	-	-
	219J (Susceptible check)	4.8	-	-	-	-
31	HM 10 (C)	4.3	0.0	4.2	3.5	5.0

32	SEED TECH 2324 (C)	2.0	6.6	3.6	4.0	3.0
33	BULAND (C)	4.5	0.0	3.9	4.5	4.1
34	BIO 9681(C)	2.0	0.0	5.3	6.0	4.6
	AET I Medium					
35	NMH-1242	2.0	0.0.	5.5	7.3	4.3
36	BIO 151	3.5	0.0	3.4	1.8	2.7
	Checks - Medium					
37	BIO 9637 (C)	2.0	0.0	4.5	6.5	4.3
	IET - Late					
38	NMH-1247	3.5	0.0	5.4	3.5	5.4
39	Bisco x – 5141	3.5	0.0	4.0	2.5	2.3
40	HKH -415	3.8	0.0	5.0	8.5	4.7
	Nithyashree (Resistant check)	1.0	-	-	-	-
	219J (Susceptible check)	4.8	-	-	-	-
41	HKH-416	2.0	0.0	3.9	6.8	4.2
42	HKH -417	4.0	0.0	4.6	6.0	4.7
43	KH – B 54	3.8	0.0	4.2	1.5	1.8
44	KH-3479	2.5	5.7	4.7	8.0	5.6
45	BIO 237	3.5	0.0	4.0	5.5	5.6
46	KMH -7148	4.5	0.0	2.9	9.0	6.1
47	HTMH5105	2.0	0.0	4.4	1.8	2.7
48	WNZPBTS 1	2.0	0.0	6.4	5.5	6.1
49	JH-273	4.3	0.0	4.4	1.8	4.4
50	JH-289	2.0	0.0	3.3	2.3	1.6
	Nithyashree (Resistant check)	1.0	-	-	-	-
	219J (Susc291eptible check)	4.8	-	-	-	-
51	JH-270	2.0	0.0	4.4	1.5	5.0
52	JH-342	4.5	0.0	5.3	3.5	2.9
53	JH-291	3.5	0.0	5.1	8.3	2.5
54	JH-290	2.5	0.0	4.1	6.0	2.6
55	JH-367	4.3	0.0	3.9	2.0	1.5
56	JH-31512	3.5	0.0	5.4	1.5	2.6
57	JH-31512	2.0	0.0	5.2	2.0	5.3
58	JH-31596	4.3	0.0	4.2	1.5	5.1
59	X35B352	3.3	0.0	3.8	2.8	5.3
60	X35B339	3.8	0.0	3.7	6.0	5.0
	Nithyashree (Resistant check)	1.0	-	-	-	-
	219J (Susceptible check)	4.8	-	-	-	-
61	X35B349	2.0	0.0	4.5	1.8	2.7
62	X35B348	2.7	0.0	4.3	1.5	2.5
63	X35B361	2.0	0.0	4.4	7.0	3.3
64	A 7501	4.3	0.0	4.1	2.5	3.1
65	PRO 386	2.0	0.0	5.4	3.8	3.0

66	PRO 385	4.5	0.0	3.1	4.0	2.7
	IET- Medium					
67	VaMH 08013	4.3	0.0	6.0	5.5	4.4
68	VaMH 08014	3.5	0.0	6.3	5.5	3.5
69	HKH 323	2.0	5.7	4.5	2.0	2.5
70	HKH 324	2.5	0.0	4.0	3.3	2.3
	Nithyashree (Resistant check)	1.0	-	-	-	-
	219J (Susceptible check)	4.8	-	-	-	-
71	HKH 325	4.5	0.0	4.1	4.5	5.0
72	HKH 326	2.0	0.0	6.2	6.0	5.3
73	HKH 327	4.5	0.0	3.8	7.3	5.3
74	HKH 328	4.3	0.0	5.0	5.5	4.9
75	KH-6847	3.5	0.0	6.0	7.8	2.4
76	VEH 11-1	4.3	0.0	4.1	6.8	5.0
	IET- EARLY					
77	HKH 329	4.0	0.0	4.6	7.8	5.5
78	HKH 330	4.3	0.0	6.0	7.0	--
	Checks-QPM1					
79	PRAKASH (C)	4.3	0.0	4.7	7.0	4.9
	QPM 1					
80	VEHQ 11-1	2.3	0.0	3.4	2.3	5.1
	NithyashreVEHQ 11-2e (Resistant check)	1.0	-	-	-	
	219J (Susceptible check)	4.8	-	-	-	
81	VEHQ 11-2	2.0	0.0	3.8	2.3	4.5
	Checks – QPM 1					
82	HQPM 1(C)	2.0	0.0	3.9	1.8	5.1
83	HQPM 5(C)	3.8	0.0	5.4	1.8	4.7
84	HQPM 7(C)	2.0	0.0	4.0	2.3	3.8
	Nithyashree (Resistant check)	1.5	0.0	-	-	-
	219J (Susceptible check)	4.8	18.0	-	-	-
	Check-FR 632.H100	-	-	6.1	-	6.1
	Susceptible check G-25	-	-	-	9.0	-

Table 2: Evaluation of elite maize lines for identification of resistance sources against charcoal rot under artificial inoculated condition at Hyderabad during *Rabi* 2011-12

S.No	PEDIGREE	C. ROT (1-9)
1.	**Mas madu (sh2 sh2)-**	5.00
2.	**Win Sweet Corn**	6.38
3.	**951-7**	6.30
4.	**WOSC**	6.10
5.	**SCM PINK**	6.00
6.	**SCF**	3.60
7.	**WSCShrunken X MUS MADHU**	6.13
8.	**DMSC 28**	6.22
9.	**WINPOP-3**	6.18
10.	**KML 29**	NG
11.	**Sc Male**	NG
12.	**HKI PC 4B**	5.50
13.	**WS KHOTHAI-1-WAXY-1-1**	NG
14.	**ESM-11-3-1**	7.00
15.	**HKI-PC-5**	5.00
16.	**HKI-PC-7**	5.50
17.	**HKI-PC-8**	3.57
18.	**WINPOP 16**	NG
19.	**WINPOP 21**	5.23
20.	**CML 44-1**	7.20
21.	**CML117-3-4-1-2-5-1-1**	4.86
22.	**WINPOP-1**	4.38
23.	**PFSR-R3**	3.67
24.	**HKI C 322**	5.80
25.	**CA14514-2**	5.00
26.	**HKI-484-5**	7.55
27.	**P3C4S5B-33-##-11-BBBB-B-B-B-2**	5.00
28.	**P3C4S5B-33-##-11-BBBB-B-B-7**	6.00
29.	**JCY3-7-1-2-1-B-2-3-2-1-3-2-1**	6.40
30.	**P390Am/CML c4 F230-B-2-1-2-2-B-B-B**	1.50
31.	**P72c1xBrasil 1177-2-2-1-B-B**	3.00
32.	**HKI C 78**	5.70
33.	**T2str-1107 EC596653**	NG
34.	**S01SIYQ-B-B-B-13-B-B**	6.90
35.	**Pop.31DMR-88-3#-B*13-B-B-1**	NG

36.	**WS KHOTHAI-1-WAXY-1-1**	4.90
37.	**BML 6**	7.20
38.	**BML 7**	5.00
39.	**EC 646012**	NG
40.	**DMSC 16-1**	6.50
41.	**DMSC3**	5.33
42.	**HKI 586-1 WG'33**	3.71
43.	**SC7-2-1-2-6-1**	5.56
44.	**HKI 1040-11-7**	7.60
45.	**JCY3-7-1-2-1-B-2-1-2-1-2**	5.20
46.	**Hyd05R/2-1**	5.55
47.	**CM 114**	4.00
48.	**HKI C 78**	5.21
49.	**HKI 141**	5.50
50.	**HKI C 323**	NG
51.	**HKI 1352-5-8-9**	4.86
52.	**Pool 16 BNSEQ.C3F6x38-1**	6.00
53.	**G18Seq C5 F74-2-1-1-2-1-B-B-B**	4.86
54.	**CML 269**	NG
55.	**CML 384**	6.09
56.	**HKI 141-2**	6.63
57.	**WINPOP-43**	5.50
58.	**WINPOP-4**	4.70
59.	**HKI 1040-5**	3.00
60.	**HKI-1040-11-7**	5.11
61.	**HKI 1040C2**	4.30
62.	**HKI 1094-WG**	6.00
63.	**ESM-11-3**	6.90
64.	**CUBA 380**	2.50
65.	**HKI 141-2**	NG
66.	**NC 392**	NG
67.	**CML 154**	NG
68.	**HKI-PC-8-2-1**	NG
69.	**CML 395**	3.50
70.	**HKI 26-2-4-(1-2)**	5.80
71.	**HKI 34(1+2)-1**	6.86
72.	**HKI 193-1**	4.00
73.	**HKI 164-7-4 ER-3**	6.33
74.	**HKI-164-7-4-2**	5.38

75.	**HKI 191-1-2-5**	5.17
76.	**HKI 193-2-2-1**	5.50
77.	**HKI-193-2-2-4**	5.20
78.	**HKI 193-1**	5.00
79.	**CML 165**	5.00
80.	**CML 172**	2.67
81.	**DMR QPM-03-104**	4.57
82.	**DMR QPM-58-26**	6.11
83.	**CLQ-RCYQ36**	5.00
84.	**CLQ-RCYQ41**	5.80
85.	**CML 451Q**	5.67
86.	**DMRQPM 58**	6.50
87.	**SC 24-(C12)-3-2-1-1**	3.00
88.	**CLQ-RCYQ30**	3.67
89.	**CLQ-RCYQ41**	5.60
90.	**HKI 164-4-(1-3)**	4.43
91.	**HKI 193-2-2-4**	6.50
92.	**HKI-MBR-139-2**	NG
93.	**LM 15**	3.33
94.	**CML 117-3-4-1-1-4-1-2**	6.67
95.	**CLQRCYQ-47-B**	4.64
96.	**HYD05R/13-2**	2.00
97.	**HKI 193-2-2-1**	3.56
98.	**LM16**	2.50
99.	**PFSR/51016-1**	3.90
100.	**CM144**	2.50
101.	**PFSR - S2-1**	5.22
102.	**ae40**	2.00
103.	**CML 141**	7.00
104.	**SW-930-313-23-PO-49-54-1-3-1-1-1-2-1-2-1-2-3-1-1-2**	NG
105.	**JCY2-1-2-1-1B-1-2-3-1-1-1**	4.89
106.	**JCY2-7-1-2-1-B-1-2-1-1**	NG
107.	**JCY3-7-1-2-1-'B-1-1-4-1**	3.30
108.	**JCY3-7-1-2-1-'B-2-3-2-1-2-3**	5.70
109.	**CM 117-3-4-1-2-2-1**	2.50
110.	**CML 3**	3.00
111.	**CM 117-3-4-1-1-4-1**	4.91
112.	**CM 117-3-4-1-2-3-1**	6.63
113.	**CM 117-3-4-1-1-4-1**	5.33

114.	**CM 117-3-4-1-2-3-1**	3.00
115.	**SW-93D-313-23-POP.49-S4-1**	5.25
116.	**CM 117-3-2-1-1-1-2-1**	4.40
117.	**JCY3-7-1-2-1-B-2-3-2-1-3-1**	3.00
118.	**CM 117-3-4-1-2-1-1**	6.50
119.	**CM 117-3-4-1-2-1-1**	6.11
120.	**LM 13**	6.38
121.	**LM 13-3**	NG
122.	**PFSR – R9**	5.30
123.	**CML 451Q**	5.00
124.	**PFSR – R10**	4.36
125.	**HKI-PC-7**	6.09
126.	**CM 114**	4.00
127.	**CM121**	5.38
128.	**HKI164-7-4**	6.67
129.	**CML171**	6.30
130.	**KML 225**	2.33
131.	**PFSR – S3**	4.67
132.	**SW-930-313-23-PO-49-54-1-3-1-1-1-2-1-2-3-1-1-2**	3.00
133.	**JCY2-1-2-1 B-1-2-3-1-1-1**	6.86
134.	**CML 117-3-4-1-1-4-1**	NG
135.	**CML 117-3-4-1-2-3-1**	5.14
136.	**CML 117-3-4-1-2-3-1**	5.89
137.	**42048-2-2-1-1-1-2**	5.43
138.	**CML 33**	6.80
139.	**JCY2-2-4-1-1-1-3-1-3-1**	NG
140.	**JCY2-2-4-1-1-1-3-1-3-1**	5.57
141.	**CM 117-3-4-1-2-1-1**	4.87
142.	**HKI323**	5.67
143.	**JCY3-7-1-2-1-B-1-1-2-3-1-1**	6.20
144.	**CM 117-3-4-1-2-5-2**	5.82
145.	**JCY3-7-1-2-2-1-3-1-1-2-7-1-1-1**	6.71
146.	**WINPOP-1**	2.00
147.	**JCY3-7-1-2-1-B-2-1-2-1**	5.20
148.	**CML 44**	5.71
149.	**LTP 4**	NG
150.	**HKI Talar**	5.00
151.	**Tempx Trop(H0)QPM-B-B-B-57-B-B**	4.75
152.	**S99TLWQ-HG-B-B-B-20-B-B**	6.80

153.	**DTPWC9-F31-1-1-3-1-2-1-2-B-B-B1**	4.90
154.	**DTPWC9-F75-3-2-1-2-2-1-3-B-B-B**	6.33
155.	**EW-DMR-G-C7-HS-(SIB)-9-B-1-B-B-B**	6.60
156.	**La Posta Seq C7-F10-3-1-2-3-B-B-B-B-B-B**	3.00
157.	**JCY3-7-1-2-1-B-2-3-2-1-4**	4.18
158.	**HIGHOILPOPULATION II**	0.00
159.	**JCY3-7-1-2-1-B-2-3-2-7-1-2-2-5**	6.20
160.	**PFSR R3-1**	6.67
161.	**DMHOC 4**	6.40
162.	**CM117-3-4-1-2-2-3-1**	4.50
163.	**SW-93D-313-23-POP.49-S4-1-3-1**	5.78
164.	**HKI-PC-5-1**	3.20
165.	**JCY-3-7-1-2-1B-2-3-2-1-3-1-6-2**	6.33
166.	**42050-1-2-1-3**	6.11
167.	**HKI323**	3.20
168.	**HKI 163**	NG
169.	**KML 3-3**	2.50
170.	**PFSR R3-4**	6.36
171.	**JCY-3-7-1-2-1B-2-3-2-1-3-2-1-2**	NG
172.	**CM117-3-4-1-1-4-1-5**	3.62
173.	**CM117-3-4-12-5-1-2**	4.10
174.	**HKI1105**	5.71
175.	**HKI 1128**	2.50
176.	**HKI 323**	6.64
177.	**PFSR R3-2**	5.00
178.	**LTP 1**	6.80
179.	**JCY 3-7-1-2-2-1-3-1-1-2-7-1-1-1**	6.22
180.	**TEMP.TROP HIGH OIL QPM**	4.40
181.	**JCS-3-7-1-2-2-1-3-1-2-17-1-2-5-1**	2.00
182.	**CML 44**	5.67
183.	**KML 3-1**	3.00
184.	**10609**	NG
185.	**HKI 193**	NG
186.	**CM117-3-4-1-1-4-1-6**	3.91
187.	**KML 3-5**	NG
188.	**WINPOP-21**	5.00
189.	**CM117-3-4-1-2-5-1-2**	3.80
190.	**CML446**	NG
191.	**02POOL33C24**	3.67

192.	**JCY 2-2-4-1-1-1-3-1-3-1**	NG
193.	**HKI1344**	NG
194.	**PFSR-R2-2**	2.00
195.	**PFSR R3-5**	4.00
196.	**PFSR R3-3**	5.90
197.	**PFSR R3-7**	5.10
198.	**CM115**	3.44
199.	**PFSR R3-6**	6.11
200.	**CM117-3-4-1-2-5-2-1-2**	4.50

Table 3: Evaluation of elite maize lines for identification of resistance sources against TLB under artificial inoculated condition at Mandya during *Rabi* 2011-12

S.No	Pedigree	TLB (1-5)
1	Mas madu (sh2 sh2)-	3.0
2	CUBA 380	2.5
3	NC392	2.5
4	DMSC3	3.0
5	DMSC 16-1	3.0
6	DMSC-37-3	4.5
7	HKI PC 4B	3.0
8	HKI-PC-5	3.5
9	HKI-PC-7	3.5
10	HKI PC 8	3.5
	Nithyashree (Resistant check)	1.0
	219J (Susceptible check)	4.5
11	HKI-PC-8-2	3.5
12	WINPOP-21	4.0
13	WINPOP-43	3.0
14	HKI 1040-5	3.5
15	HKI-1040-11-7	3.5
16	ESM-11-3	3.0
17	Gen 6033	2.5
18	Hyd05R/2-1	2.5
19	Hyd05R/13-2	3.0
20	LM12	3.5
21	LM15	1.5
22	LM15	5.0
23	LM 16	3.5
24	V 351	3.0
25	CM114	4.0
26	CM121	NG
27	CM 144	2.0
28	HKI C 78	3.0
29	HKI 141	3.5
30	HKI C 323	2.5
	Nithyashree (Resistant check)	1.5
	219J (Susceptible check)	4.5
31	HKI 1352-5-8-9	3.0
32	Pool 16 BNSEQ.C3F6x38-1	4.5
33	ae-40	2.0

34	CML 141	2.0
35	CML 269	2.5
36	CML 384	2.5
37	HKI 164-3 (2-1)-1	2.0
38	HKI 164-7-4	2.0
39	HKI-164-7-4-2	2.0
40	HKI 191-1-2-5	3.0
	Nithyashree (Resistant check)	1.5
	219J (Susceptible check)	5.0
41	HKI 193-2-2-1	2.5
42	HKI-193-2-2-4	2.0
43	HKI 193-1	2.0
44	CML 165	NG
45	CML 167	2.5
46	CML 171	2.5
47	CML 172	3.0
48	HKI-MBR-139-2	2.5
49	DMR QPM-03-104	3.0
50	DMR QPM-58-26	4.0
	Nithyashree (Resistant check)	1.5
	219J (Susceptible check)	5.0
51	CLQ-RCYQ30	2.5
52	CML 451Q	4.0
53	HIGH OIL POPULATION II-3	2.5
54	DMHOC 4	3.0
55	02POOL 33 C24	2.5
56	Temp.´Trop High oil QPM	3.5
57	PFSR - R2	2.5
58	PFSR - R3	2.5
59	PFSR - R9	2.0
60	PFSR - R10	2.5
	Nithyashree (Resistant check)	1.5
	219J (Susceptible check)	4.5
61	PFSR - R10	2.0
62	PFSR - S2	2.0
63	PFSR - S3	2.0
64	SW-930-313-23-PO-49-54-1-3-1-1-1-2-1-2-1-2-3-1-1-2	3.5
65	JCY2-1-2-1-1B-1-2-3-1-1-1	2.5
66	JCY2-7-1-2-1-B-1-2-1-1	2.5
67	JCY3-7-1-2-1-'B-1-1-4-1	2.0
68	JCY3-7-1-2-1-'B-2-3-2-1-2-3	3.5

69	CML 3	2.5
70	CML 321	3.0
	Nithyashree (Resistant check)	1.5
	219J (Susceptible check)	5.0
71	CM 117-3-4-1-1-4-1	2.5
72	CM 117-3-4-1-2-5-1	2.5
73	42048-2-2-1-1-1-2	3.0
74	CML 33	2.5
75	SW-933D-313-23-POP.49-S4-1	2.5
76	JCY3-7-1-2-1-B-2-3-2-1-3-2	4.0
77	42050-1-1-2-1-3	2.5
78	JCY3-7-1-2-1-B-1-1-2-3-1-1	2.5
79	CM 117-3-4-1-2-5-2	2.5
80	JCY3-7-1-2-2-1-3-1-1-2-7-1-1-1	2.5
	Nithyashree (Resistant check)	1.5
	219J (Susceptible check)	4.5
81	LM 13	NG
82	JCY3-7-1-2-1-B-2-1-2-1	2.0
83	CML 44	3.5
84	LTP 4	2.5
	Nithyashree (Resistant check)	1.5
	219J (Susceptible check)	5.0

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TABLE4: PERFORMA FOR SURVEY AND SURVEILLANCE OF MAIZE DISEASES AT COIMBATORE DURING *RABI* 2011-12

Season: Rabi 2011-12
State: Tamil Nadu
Zone: Southern zone

Altitude: 411.48 m
Latitude: 11°.0 "N

S. No.	Place	Date	No. field survey	Crop stage/ variety		Disease intensity/Severity (Tr., Mod, Serv)												Re-marks
						Foliar Diseases								PFSR				
				Knee high	G. Filling	SDM (%)	MLB	TLB	BSDM	BLSB	Rust	BS	Others	PFSR	CSR	LW	ESR	
1.	Pollachi	20.02.12	4	☑		Tr	0	0	0	0	0	0	0	0	0	0	0	
2.	Vagarai	05.03.12	5	☑	☑	0	0	0	0	0	0	0	0	0	0	0	0	
3.	Dindukkal	21.03.12	3	☑		0	0	0	0	0	0	0	0	0	0	0	0	
4.	Palani	12.12.11	3	☑	☑	0	0	Tr.	0	0	0	0	0	0	0	0	0	
5.	Ottanchathiram	17.12.11	3	☑	☑	0	0	0	0	0	0	Tr.	0	0	0	0	0	
6.	Palladam	06.12.11	2		☑	0	0	Tr.	0	0	Tr.	0	0	Tr.	0	0	0	
7.	Vadakipalayam	07.12.11	3	☑	☑	Tr.	0	Tr.	0	0	0	0	0	0	0	0	0	

Table 4: Meteorological data (Monthly average) *Rabi* 2011-12

S.N	Station Name	Month	Temperature		Rainfall of month (mm)	R.H Min (in %)	R.H Max (in %)	Sunshine Hrs.
			Min (^{o}C)	Max (^{o}C)				
1.	Mandya	October	20.1	30.7	193.0	51.0	91.0	5.9
		November	20.5	34.5	121.6	35.0	91.0	8.2
		December	18.8	30.2	2.8	48.6	90.9	6.3
		January	20.6	29.7	-	52.5	91.0	6.9
		February	21.1	32.6	-	49.0	91.0	8.4
		March	21.3	31.5	-	49.2	90.4	9.1
2.	Coimbatore	November	20.8	28.6	8.1	89.6		5.4
		December	19.0	29.3	0.3	89.1		6.3
		January	18.3	29.7	0.0	88.4		8.2
		February	19.3	32.2	0.0	83.4		8.3
		March	22.4	34.9	0.0	83.1		8.2

ENTOMOLOGY

ENTOMOLOGY

A total of 37 maize germplasm were screened under artificial infestation against stem borer, *C. partellus*, at Kolhapur as well as at Hyderabad. Two entries *viz.;* HKH 402 (2.50) and NK 6607 (2.90) were found to be least susceptible and one entry Bisco New 704 (6.85) was found to be highly susceptible to the stem borer infestation in Kolhapur. However, remaining 34 entries were found to be moderately susceptible. At Hyderabad, out of 37 germplasm, only 10 germplasm were moderately susceptible and remaining was highly susceptible (Table 1). Two hundred nine inbred lines were evaluated against *Sesamia inferens* under artificial infestation. Four inbred were found highly resistance while fifty-nine were moderately resistance. The remaining 146 inbred lines were highly susceptible to *S. inferens* (Table 2).

Table 1:- Evaluation of germplasm against *Chilo partellus* at Kolhapur and Hyderabad

S. No.	Pedigree code	KOLHAPUR		HYDERABAD	
		Mean	Category of	Mean	Category of
AET II Late					
1	BIO 265	3.40	MS	6.6	**HS**
2	DMRNH 2	3.90	MS	5.8	MS
3	115-08-01	5.50	MS	6.3	**HS**
4	35A019	3.90	MS	6.2	**HS**
5	PRO 379	5.40	MS	7.9	**HS**
AET I Late					
6	CMH08-239	4.00	MS	7.0	**HS**
7	CMH08-259	5.10	MS	7.8	**HS**
8	CMH08-282	4.50	MS	7.1	**HS**
9	CMH08-287	4.60	MS	7.1	**HS**
10	NMH-731	5.10	MS	7.5	**HS**
11	NMH-713	4.00	MS	7.7	**HS**
12	NMH-920	3.70	MS	5.6	MS
13	NMH-666	5.90	MS	5.8	MS
14	Bisco New 704	6.85	**HS**	4.2	MS
15	Bisco x -5129	3.60	MS	5.8	MS
16	Bisco x -9	5.60	MS	5.3	MS
17	HKH 402	2.50	**LS**	7.8	**HS**
18	HKH 408	4.30	MS	5.1	MS
19	KH-274	5.60	MS	7.0	**HS**
20	KMH-2689	5.00	MS	5.2	MS

21	KMH-2700(25K45)	5.60	MS	8.6	**HS**
22	NK 6607	2.90	**LS**	6.5	**HS**
23	S 7700	4.00	MS	5.6	MS
24	S 7720	4.50	MS	5.7	MS
25	RJ-2020	4.00	MS	6.7	**HS**
26	RJMH-2 By 1	3.20	MS	6.4	**HS**
27	A 7503	3.90	MS	6.2	**HS**
28	PRO 380	5.10	MS	8.3	**HS**
29	DHM 117	4.70	MS	7.6	**HS**
Checks - Late					
30	HM 11 (C)	4.90	MS	6.8	**HS**
31	HM 10 (C)	5.60	MS	9.0	**HS**
32	SEED TECH 2324 (C)	4.70	MS	6.8	**HS**
33	BULAND (C)	6.00	MS	9.0	**HS**
34	BIO 9681 (C)	4.30	MS	9.0	**HS**
AET I Medium					
35	NMH-1242	3.50	MS	8.6	**HS**
36	BIO 151	4.10	MS	8.1	**HS**
Checks - Medium					
37	BIO 9637 (C)	3.10	MS	9.0	**HS**

LS -Least susceptible
MS -Moderately susceptible
HS-Highly susceptible

Table 2:- Screening of inbred lines against Pink borer, *Sesamia inferens* at Hyderabad

Date of planting: 26-11-11,
Date of infestation: 18-12-11,
Date of LIR recording:-21-01-12

S. No	**Pedigree**	**Mean Leaf injury rating (1-9 scale)**
1	PFSRR9	8.7
2	PFSRS2	8.6
3	CML446	8.6
4	PFSR - R2-2	8.6
5	BASI LOCAL (SUSCEPTIBLE CHECK)	8.6
6	PFSRR10	8.5
7	PFSRS2-1	8.4
8	HKIPC7	8.3
9	PFSRR10	8.3

10	SW930-313	8.3
11	PFSRR3-6	8.3
12	CML 451 (SUSCEPTIBLE CHECK)	8.3
13	JCY2-1-2-1-B-1-2-3-1-1-1-2	8.2
14	PFSRR3-5	8.2
15	PFSRR3-3	8.2
16	CML171	8.1
17	BASILOCAL	8.1
18	CML451Q	8.1
19	PFSRR9-2	8.1
20	JCY2-2-4-1-1-1-3-1-3-1-2	8.1
21	CM117-3-4-1-2-5-2-1	8.1
22	CML 287 (SUSCEPTIBLE CHECK)	8.1
23	AE40	8.0
24	CLQRCYQ30	8.0
25	PFSRS3-1	8.0
26	SCMW	7.9
27	HKI1040-11	7.9
28	DMRQPM58-26	7.9
29	POPBLAC61C3	7.9
30	PFSRS2	7.9
31	CML287	7.9
32	CM117-3-4-1-2-2-3-1	7.9
33	SW93D	7.9
34	JCY-3-7-1-2-1B-2-3-2-1-3-1-6	7.9
35	KML3-5	7.9
36	PFSRR3-7	7.9
37	CM 202 (SUSCEPTIBLE CHECK)	7.9
38	Wsc shrunken x masmadhu	7.8
39	HKI193-1	7.8
40	DMRQPM58-26-1	7.8
41	PFSRR3-1	7.8
42	CM 115	7.8
43	SCM PINK	7.7
44	CML269	7.7
45	CM117-2-3-1	7.7
46	HKI141	7.7
47	42050-1-1-2-1-3	7.7
48	JCY-3-7-1-2-1-B-2-3-2-1-3-2-1	7.7
49	HKI 1344	7.7
50	NC392	7.6
51	WSKOTHAI	7.6
52	HKIC322-1	7.6

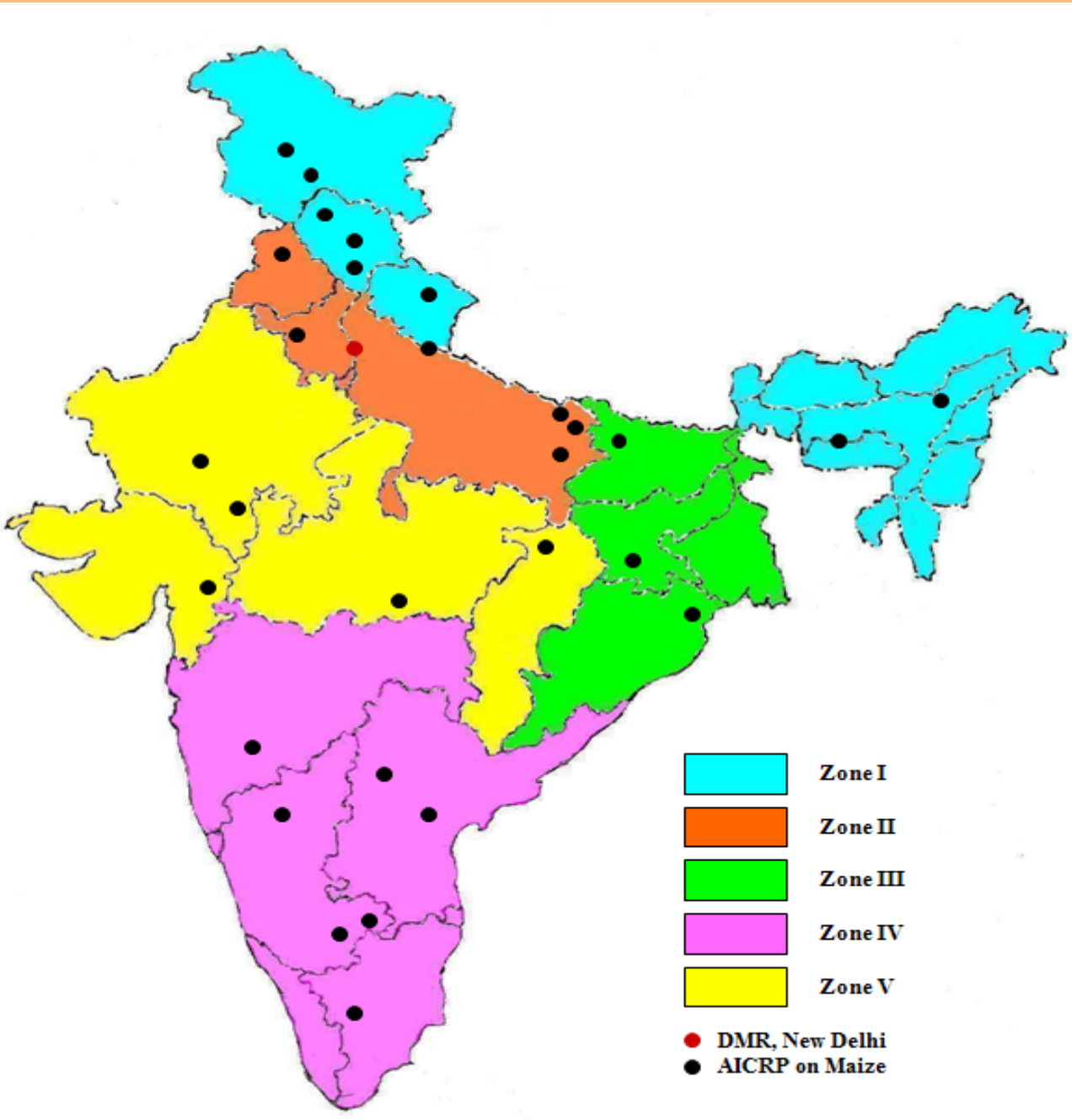
53	CA14514	7.6
54	DMSC16-2	7.6
55	CML384	7.6
56	HKI1040-5-1	7.6
57	CML167	7.6
58	PFSRR3	7.6
59	HKI193-2-2-4	7.6
60	PFSRS2	7.6
61	V335	7.6
62	CM117-4-1	7.6
63	JCY2-1-2-1-B-2-3-1-1-1	7.6
64	HKI 323-3	7.6
65	CM117-3-4-1-1-4-1-5	7.6
66	SCF	7.5
67	KML29	7.5
68	HKI484-5	7.5
69	HKI1040-5	7.5
70	HKI164-41-3-2	7.5
71	DMSC37-3	7.5
72	JCY2-2-4-1-1-1-3-1-3-1	7.5
73	JCY3-7-1-2-2-3-1-1-2-7-1-1-1	7.5
74	TEMP XTROP(H00QPM-B-B-57-B-B	7.5
75	KML3-3	7.5
76	CM117-3-4-1-2-5-1-2	7.5
77	HKI 1105	7.5
78	HKI 193	7.5
79	CM117-3-4-1-1-4-1-6	7.5
80	P3C4S5B-33-2	7.4
81	DMSC16-1	7.4
82	HKI1094WG	7.4
83	PFSRS3	7.4
84	CML3	7.4
85	CM117-3-4-1-2-5-1-2	7.4
86	CLQRCYQ30	7.3
87	HKI586-1WG33	7.3
88	CM117-3-4-1	7.3
89	JCY3-7-1-2-1-B-2-3-2-1-3-1-1	7.3
90	CM117-3-4-2-5-2-1	7.3
91	KML3-1	7.3
92	P390/CMLc4F230-b-2-1-2-2	7.2
93	HKI141	7.2
94	LTP1	7.2
95	Mas madu (sh2 sh2)	7.1
96	ESM11-3	7.1

97	CLQRCYQ41	7.1
98	CM132	7.1
99	JCY3-7-1-2-1-B-1-1-4-1-2	7.1
100	CM117-4-1-4	7.1
101	JCY3-7-1-2-1-B-2-3-2-1-2-1-4	7.1
102	HKI 163	7.1
103	P3C4S5B-33-2-7-1	7.0
104	CML33	7.0
105	HKI 323-2	7.0
106	JCY3-7-2-3-1-B-1-1-2-3-1-1-1	7.0
107	HKIC322	6.9
108	HKIC78	6.9
109	DTPWC9-F31	6.9
110	DTPWC9-F75	6.9
111	EWDMRGC7	6.9
112	DMHOC 4	6.9
113	JCY-3-7-1-2-2-1-3-1-1-2-7-1-2-5-1	6.9
114	P3C4S5B-33-2-7	6.8
115	T2STR1107	6.8
116	CML269	6.8
117	CM117-4-2-1	6.8
118	Temp.´Trop High oil QPM-1	6.8
119	S01S1YQ-B-B-B-13-B-B	6.7
120	POP31DMR-88-3#B*13-B-B-1	6.7
121	BML 7	6.7
122	DMSC8	6.7
123	CM139	6.7
124	42048-2	6.7
125	S99TLWQ-HG-B-B-B-59-B-B	6.7
126	PFSRR3-2	6.7
127	CML141	6.6
128	HKIPC8-1	6.6
129	G18SEQC5F74-2-1-1-2-1-B-B-B	6.6
130	HKI1040-11-7	6.6
131	CLQRCYQ47B	6.6
132	HKI 193-1	6.6
133	LM15	6.6
134	CM117-4-2-3-1	6.6
135	CM117-4-2-1-1	6.6
136	KML225	6.6
137	HKI1128	6.6
138	P72clXBrasil1177-2-2-1-B-B	6.5
139	HKI193-2-2-4	6.5
140	DMRQPM58-26-2	6.5

141	V341	6.4
142	PFSRR3-4	6.4
143	BML 6	6.3
144	CML154	6.3
145	HOPII	6.2
146	WP3	6.0
147	HYDO5R/2-1	6.0
148	PFSRR9	6.0
149	CM117-3-2-1	6.0
150	SW93D-313-23-PO-49-54-1-3-1-1-1-2-1-2-3-1-1-2	5.9
151	CM501	5.9
152	CLQRCYQ40	5.8
153	HKI1040-5-2	5.7
154	HKI323	5.7
155	HYDO5R/2-1	5.6
156	HKIC323	5.6
157	PFSRS3-2	5.6
158	JCY3-7-1-2—1-B-2-3-2-2-2-3-3	5.6
159	HKIPC4B	5.5
160	HKIPC8-2	5.5
161	HKIC78	5.4
162	CML384-1	5.4
163	HKIMBR139-2	5.4
164	PFSR/51016-1	5.3
165	HKIPC8	5.2
166	DMSC3	5.2
167	HKI164-41-3	5.2
168	HKIPC5-2	5.2
169	LM12	5.2
170	HKI586	5.1
171	DMSC28	5.0
172	HKIPC5	5.0
173	HKIPC5-1	5.0
174	E30A	4.9
175	WOSC	4.8
176	HKIPC7-1	4.8
177	HKIPC5-1	4.7
178	WP21	4.7
179	WP21	4.6
180	WP1-1	4.6
181	CM500(Check)	4.6
182	HKIC323	4.6
183	WNZPBTL5-1	4.4

184	DC2	4.3
185	WP	4.3
186	E9G	4.3
187	WNZPBTL4	4.3
188	AEBY34-2	4.2
189	WNZPBTL5	4.1
190	WP43	4.0
191	E9E	4.0
192	E57G	4.0
193	AEBY-55	3.9
194	CM502	3.8
195	E57D	3.8
196	E57F	3.8
197	WNZPBTL2	3.7
198	E5B	3.7
199	WP3-1	3.5
200	WNZPBTL1	3.4
201	E4PINK	3.4
202	WP2	3.3
203	E4B	3.2
204	AEBY34-1	3.2
205	CM 500 (RESISTANT CHECK)	3.1
206	WNZPBTL6	2.9
207	E57B	2.9
208	WNZPBTL 8	2.2
209	WNZPBTL 9	2.2

Germplasm least susceptible if leaf injury rating is less than 3; moderately susceptible if rating is above 3 and less than or equal to 6 and highly susceptible if rating is above 6.



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