Annual Progress Report
Rabi Maize

2014-15

All India Coordinated Research Project on Maize

ICAR-Indian Institute of Maize Research

Pusa Campus, New Delhi-110 012, India

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Annual Maize Workshop-2015
PAU Ludhiana

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All India Coordinated Research Project on Maize

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2	Dr. K. Srivastava	Assoc. Prof.	Plant Breeding	karstav@yahoo.com	+91-9450388636
3	Dr. R.N. Singh	Prof. -Sr. Agronomist	Agronomy	rnsingh.agro@rediffmail.com	+91-9792795906
31. IARI Regional Centre,Dharwad-580 005, Karnataka					
1	Dr. Jayant S. Bhat	Senior Scientist	Genetics	jsbhat73@gmail.com	+919483765647
32. Bhiloda Maize Research Station, S.D.Agricultural University, Bhiloda-383 245 District : Aravalli (Guj) Phone(O): 02771 232720					
1.	Dr. J.M. Patel	Asst Breeder	Breeding	dr.jmpatel.63@gmail.com	+91- 9726482455

Decoded list of entries tested in Rabi 2014-15 coordinated trials

Decoding of entries tested in Rabi 2014-15 coordinated trials

TRIAL NO. 1	**:**	**IVT - LATE**
MATURITY	:	LATE
SEASON	:	RABI 2014-2015
NO. OF ROWS	:	2
ROW LENGTH (METRE)	:	4
NO. OF REPLICATIONS	:	3
NO. OF LOCATIONS	:	17

LOCATIONS: LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, VARANASI, RANCHI, BHUBANESHWAR, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, ARBHAVI, VAGARAI, BANSWARA, GODHRA

				REPLICATIONS		
E.No.	**Entry Name**	**DMR Code**	**INSTITUTE NAME**	**R I**	**R II**	**R III**
1	IP 8510	DMR101	Monsanto India Ltd.	1004	1060	1094
2	CCH 4039	DMR102	Rohini Seeds Pvt. Ltd.	1035	1059	1105
3	SYN427210	DMR103	Syngenta India Ltd.	1027	1044	1108
4	DMRH 1423	DMR104	DMR New delhi	1012	1072	1107
5	PM14202L	DMR105	PHI Seeds Pvt.Ltd.(Pioneer)	1001	1065	1088
6	Rasi 394	DMR106	Rasi Seed Pvt. Ltd.	1030	1047	1113
7	SYN426702	DMR107	Syngenta India Ltd.	1040	1042	1101
8	PM14206L	DMR108	PHI Seeds Pvt.Ltd.(Pioneer)	1016	1068	1098
9	HKH 424	DMR109	CCS HAU Karnal	1029	1057	1119
10	JKMH 4023	DMR110	JK Agri Genetics Ltd.	1039	1071	1099
11	SMH 3903	DMR111	Shakti Seeds Pvt. Ltd.	1010	1056	1097
12	JH 295	DMR112	PAU Ludhiana	1026	1053	1096
13	PM14204L	DMR113	PHI Seeds Pvt.Ltd.(Pioneer)	1023	1066	1086
14	PM14208L	DMR114	PHI Seeds Pvt.Ltd.(Pioneer)	1020	1061	1111
15	KH 2847	DMR115	Kanchan Ganga Seed Pvt. Ltd.	1021	1077	1103
16	HT 142107	DMR116	Hytech Seed India Pvt. Ltd.	1034	1045	1120
17	SHIATS MS-3	DMR117	SHIAT&S,Nani Allahabad	1019	1076	1114
18	CP .444	DMR118	C.P.Seeds Pvt.Ltd.	1002	1049	1084
19	Genesis MH-102	DMR119	Genesis Agro Seeds Pvt. Ltd.	1024	1051	1116
20	GMH 275	DMR120	Godrej Seeds & Genetics Ltd.	1037	1063	1109
21	PM14201L	DMR121	PHI Seeds Pvt.Ltd.(Pioneer)	1005	1074	1082
22	CCH 1040	DMR122	Rohini Seeds Pvt. Ltd.	1008	1073	1093
23	KH 2977	DMR123	Kanchan Ganga Seed Pvt. Ltd.	1009	1058	1083
24	PM14203L	DMR124	PHI Seeds Pvt.Ltd.(Pioneer)	1013	1080	1087
25	PM14205L	DMR125	PHI Seeds Pvt.Ltd.(Pioneer)	1032	1064	1112
26	JH 357	DMR126	PAU Ludhiana	1015	1078	1091
27	KMH 3812	DMR127	Kaveri Seed Com. Ltd.	1007	1070	1106
28	NMH 1290	DMR128	Nuziveedu Seeds Ltd.	1014	1055	1110
29	GK 3124	DMR129	Ganga Kaveri Seeds Pvt. Ltd.	1011	1043	1081
30	PM14207L	DMR130	PHI Seeds Pvt.Ltd.(Pioneer)	1033	1041	1089
31	GK 3153	DMR131	Ganga Kaveri Seeds Pvt. Ltd.	1038	1067	1092
32	GMH 909	DMR132	Godrej Seeds & Genetics Ltd.	1017	1062	1115
33	IM 8119	DMR133	Monsanto India Ltd.	1025	1079	1100
34	JH 409	DMR134	PAU Ludhiana	1006	1069	1095
35	DKC 9150	DMR135	Monsanto India Ltd.	1028	1054	1104
E.No.	**Entry Name**	**DMR Code**	**INSTITUTE NAME**	**R I**	**R II**	**R III**
36	VEH 14-2	DMR136	VARANASI	1003	1050	1118
37	VEH 14-1	DMR137	VARANASI	1036	1052	1117
38	Seedtech 2324-C	DMR138	Bisco	1018	1048	1102
39	Bio9681-C	DMR139	Bio seed	1031	1046	1085
40	Buland-C	DMR140	Bio seed	1022	1075	1090

TRIAL NO. 2	:	**IVT - Medium**
MATURITY	:	Medium
YEAR	:	2014-2015
SEASON	:	RABI
NO. OF ROWS	:	2
ROW LENGTH (METRE)	:	4
NO. OF REPLICATIONS	:	3
NO. OF LOCATIONS	:	17

LOCATIONS: LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, VARANASI, RANCHI, BHUBANESHWAR, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, ARBHAVI, VAGARAI, BANSWARA, GODHRA

				REPLICATIONS		
E.No.	**Entry Name**	**DMR Code**	**INSTITUTE NAME**	**R I**	**R II**	**R III**
1	BH 412067	DMR201	MRC,ARI,Hyderabad	2012	2056	2078
2	PM 142096M	DMR202	PHI Seeds Pvt.Ltd.(Pioneer)	2018	2035	2084
3	MMHQPM-09-2014	DMR203	TCA ,Dholi	2030	2059	2086
4	KNMH 4010131	DMR204	ARS, Karimnagar	2023	2053	2093
5	DMRH 1420	DMR205	DMR New delhi	2026	2039	2072
6	MMHQPM-010-2014	DMR206	TCA ,Dholi	2032	2044	2076
7	IHQ 091	DMR207	MRC,Godhra	2019	2038	2080
8	HKH 346	DMR208	CCS HAU Karnal	2008	2034	2089
9	BH 412066	DMR209	MRC,ARI,Hyderabad	2007	2052	2077
10	BH 412065	DMR210	MRC,ARI,Hyderabad	2003	2041	2085
11	BLH 102	DMR211	Bisco Bio Sciences Pvt. Ltd.	2004	2057	2096
12	BH 412064	DMR212	MRC,ARI,Hyderabad	2028	2066	2088
13	KH 518	DMR213	Kanchan Ganga Seed Pvt. Ltd.	2020	2061	2083
14	IH 031	DMR214	MRC,Godhra	2009	2051	2091
15	IHQ 092	DMR215	MRC,Godhra	2029	2037	2067
16	DMRH 1422	DMR216	DMR New delhi	2001	2055	2090
17	HKH 345	DMR217	CCS HAU Karnal	2006	2045	2075
18	BH 412044	DMR218	MRC,ARI,Hyderabad	2011	2058	2073
19	BLH 101	DMR219	Bisco Bio Sciences Pvt. Ltd.	2010	2036	2070
20	MMHQPM-07-2014	DMR220	TCA ,Dholi	2033	2060	2099
21	DMRH 1419	DMR221	DMR New delhi	2017	2065	2094
22	BH 412055	DMR222	MRC,ARI,Hyderabad	2014	2054	2082
23	CP .222	DMR223	C.P.Seeds Pvt.Ltd.	2002	2063	2071
24	IM 8013	DMR224	Monsanto India Ltd.	2031	2062	2098
25	HT 1412081	DMR225	Hytech Seed India Pvt. Ltd.	2013	2040	2087
26	MMHQPM-11-2014	DMR226	TCA ,Dholi	2024	2064	2069
27	BH 412062	DMR227	MRC,ARI,Hyderabad	2022	2042	2068
28	MMHQPM-08-2014	DMR228	TCA ,Dholi	2027	2047	2097
E.No.	**Entry Name**	**DMR Code**	**INSTITUTE NAME**	**R I**	**R II**	**R III**
29	DMRH 1410	DMR229	DMR New delhi	2021	2048	2081
30	KH K 85	DMR230	Kanchan Ganga Seed Pvt. Ltd.	2005	2046	2092
31	DMRH 1421	DMR231	DMR New delhi	2025	2043	2095
32	Bio9637-C	DMR232	Bioseed	2016	2050	2074
33	HM10-C	DMR233	HAU Karnal	2015	2049	2079

TRIAL NO. 4	:	**AVT I- LATE**
MATURITY	:	LATE
YEAR	:	2014-2015
SEASON	:	RABI
NO. OF ROWS	:	4

ROW LENGTH (METRE) : 4
NO. OF REPLICATIONS : 3
NO. OF LOCATIONS : 17
LOCATIONS: LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, VARANASI, RANCHI, BHUBANESHWAR, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, ARBHAVI, VAGARAI, BANSWARA, GODHRA

				REPLICATIONS		
E.No.	**Entry Name**	**DMR Code**	**INSTITUTE NAME**	**R I**	**R II**	**R III**
1	HTMH 5108	DMR307	Hytech Seed India Pvt. Ltd.	3017	3046	3063
2	IM 8222	DMR312	Monsanto India Ltd.	3013	3026	3051
3	GK 3118	DMR306	Ganga Kaveri Seeds Pvt. Ltd.	3010	3045	3049
4	Rasi 950	DMR315	Rasi Seed Pvt. Ltd.	3005	3033	3052
5	CSM1	DMR320	IARI NEW DELHI	3014	3028	3062
6	KH 3021	DMR310	Kanchan Ganga Seed Pvt. Ltd.	3018	3031	3050
7	CP .111	DMR301	C.P.Seeds Pvt.Ltd.	3003	3040	3054
8	HTMH 5202	DMR308	Hytech Seed India Pvt. Ltd.	3023	3024	3061
9	KH 2192	DMR309	Kanchan Ganga Seed Pvt. Ltd.	3001	3043	3065
10	JH 8837	DMR318	PAU Ludhiana	3008	3027	3056
11	CP .333	DMR304	C.P.Seeds Pvt.Ltd.	3006	3042	3069
12	GK 3155	DMR305	Ganga Kaveri Seeds Pvt. Ltd.	3012	3036	3047
13	CP .999	DMR303	C.P.Seeds Pvt.Ltd.	3019	3034	3055
14	KMH 1411	DMR311	Kaveri Seed Com. Ltd.	3011	3037	3059
15	JH 293	DMR319	PAU Ludhiana	3009	3032	3053
16	CP .838	DMR302	C.P.Seeds Pvt.Ltd.	3020	3044	3057
17	DMRH1308-Z3,4,5	DMR317	DMR New delhi	3007	3041	3064
18	X35F880	DMR313	PHI Seeds Pvt.Ltd.(Pioneer)	3022	3025	3048
19	Rasi 393	DMR316	Rasi Seed Pvt. Ltd.	3021	3030	3067
20	Rasi 864	DMR314	Rasi Seed Pvt. Ltd.	3016	3039	3068
21	Seedtech 2324-C	DMR321	Bisco	3015	3035	3060
22	Bio9681-C	DMR322	Bio seed	3002	3029	3066
23	Buland-C	DMR323	Bio seed	3004	3038	3058

TRIAL NO. 5 : AVT I-Medium
MATURITY : Medium
YEAR : 2014-2015
SEASON : RABI
NO. OF ROWS : 4
ROW LENGTH (METRE) : 4
NO. OF REPLICATIONS : 3
NO. OF LOCATIONS : 17
LOCATIONS: LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, VARANASI, RANCHI, BHUBANESHWAR, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, ARBHAVI, VAGARAI, BANSWARA, GODHRA

				REPLICATIONS		
E.No.	**Entry Name**	**DMR Code**	**INSTITUTE NAME**	**R I**	**R II**	**R III**
1	GPS MAINA	DMR401	GPS Biotech Pvt. Ltd.	4012	4019	4029
2	BL 798	DMR402	Bisco Bio Sciences Pvt. Ltd.	4004	4024	4025
3	DMRH1307*	DMR403	DMR New delhi	4006	4020	4033
4	IM 8303 (DKC9166)	DMR404	Monsanto India Ltd.	4008	4017	4027
5	DMRH1306	DMR405	DMR New delhi	4011	4022	4030
6	DMRH1302*	DMR406	DMR New delhi	4002	4015	4028
7	BL 147	DMR407	Bisco Bio Sciences Pvt. Ltd.	4003	4021	4034
8	DMRH1301	DMR408	DMR New delhi	4001	4018	4032
9	BL 900	DMR409	Bisco Bio Sciences Pvt. Ltd.	4010	4016	4035
10	KH 517	DMR410	Kanchan Ganga Seed Pvt. Ltd.	4009	4014	4031
11	CSM2	DMR411	IARI, NEW DELHI	4005	4023	4036
12	Bio9637-C	DMR412	Bioseed	4007	4013	4026

*Tested only in Zone-3 and 4

TRIAL NO. 6 & 9 : **AVT I-II-Early**
MATURITY : Early
SEASON : RABI 2014-15
NO. OF ROWS : 6
ROW LENGTH (METRE) : 4
NO. OF REPLICATIONS : 4
NO. OF LOCATIONS : 17
LOCATIONS: LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, VARANASI, RANCHI, BHUBANESHWAR, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, ARBHAVI, VAGARAI, BANSWARA, GODHRA

				REPLICATIONS			
E.No.	**Entry Name**	**DMR Code**	**INSTITUTE NAME**	**R I**	**R II**	**R III**	**RIV**
	Trial 6						
1	HKH 336*	DMR501	HAU, Karnal	5002	5008	5014	5016
	Trial 9						
2	KH K25	DMR502	Kanchan Ganga	5001	5009	5015	5020
3	HKH 329*	DMR503	HAU, Karnal	5005	5006	5011	5019
4	HKH 330*	DMR504	HAU, Karnal	5004	5010	5013	5018
5	Prakash-C	DMR505	PAU	5003	5007	5012	5017

*Tested only in Zone-5

TRIAL NO. 7 : **AVT II-LATE**
MATURITY : LATE
YEAR : 2014-2015
SEASON : RABI
NO. OF ROWS : 6

ROW LENGTH (METRE) : 4
NO. OF REPLICATIONS : 3
NO. OF LOCATIONS : 17
LOCATIONS: LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, VARANASI, RANCHI, BHUBANESHWAR, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, ARBHAVI, VAGARAI, BANSWARA, GODHRA

				REPLICATIONS		
E.No.	**Entry Name**	**DMR Code**	**INSTITUTE NAME**	**R I**	**R II**	**R III**
1	X35C537	DMR601	PHI Seeds Pvt.Ltd.(Pioneer)	6006	6021	6046
2	GK 3150	DMR602	Ganga Kaveri Seeds Pvt. Ltd.	6002	6033	6044
3	Ivori	DMR603	Pravardhan Seeds Pvt.Ltd.	6004	6024	6045
4	KMH 2589	DMR604	Kaveri Seed Com. Ltd.	6016	6031	6039
5	TH 22	DMR605	Yaaganti Seeds Pvt. Ltd.	6007	6034	6052
6	P3533	DMR606	PHI Seeds Pvt.Ltd.(Pioneer)	6012	6030	6051
7	Bisco X 6573	DMR607	Bisco Bio Sciences Pvt. Ltd.	6013	6027	6043
8	JH 270	DMR608	PAU Ludhiana	6014	6020	6050
9	DKC 9120	DMR609	Monsanto India Ltd.	6017	6023	6054
10	Venus	DMR610	Prabhat Agri Biotech Ltd.	6001	6022	6056
11	TH 2	DMR611	Yaaganti Seeds Pvt. Ltd.	6010	6032	6049
12	PMH 189	DMR612	Pravardhan Seeds Pvt.Ltd.	6015	6037	6055
13	PMH 2277	DMR613	Prabhat Agri Biotech Ltd.	6019	6029	6057
14	IL 8212	DMR614	Monsanto India Ltd.	6008	6036	6041
15	IL 8534	DMR615	Monsanto India Ltd.	6003	6026	6053
16	Megan-G	DMR616	Pravardhan Seeds Pvt.Ltd.	6011	6025	6042
17	Seedtech 2324-C	DMR617	Bisco	6009	6035	6047
18	Bio9681-C	DMR618	Bio seed	6005	6038	6048
19	Buland-C	DMR619	Bio seed	6018	6028	6040

TRIAL NO. 8	:	AVT II-Medium
MATURITY	:	MEDIUM
YEAR	:	2014-2015
SEASON	:	RABI
NO. OF ROWS	:	6
ROW LENGTH (METRE)	:	4
NO. OF REPLICATIONS	:	3
NO. OF LOCATIONS	:	17

LOCATIONS: LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, VARANASI, RANCHI, BHUBANESHWAR, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, ARBHAVI, VAGARAI, BANSWARA, GODHRA

					REPLICATIONS	
E.No.	**Entry Name**	**DMR Code**	**INSTITUTE NAME**	**R I**	**R II**	**R III**
1	PMH 2246	DMR701	Prabhat Agri Biotech	7007	7008	7017
2	HKH 325*	DMR702	CCS HAU Karnal	7006	7014	7020
3	DKC 9155(IL8536)	DMR703	Monsanto India Ltd.	7005	7013	7016
4	DKC 9142(IJ 8214)	DMR704	Monsanto India Ltd.	7004	7009	7018
5	KH K26	DMR705	Kanchan Ganga Seed	7002	7011	7021
6	DKC9135(IJ 8521)	DMR706	Monsanto India Ltd.	7003	7012	7015
7	Bio9637-C	DMR707	Bioseed	7001	7010	7019

* Tested only in Zone-2

TR. QPM 1 & 2	:	**QPM1 &2**
MATURITY	:	LATE/MEDIUM/EARLY
YEAR	:	2014-2015
SEASON	:	RABI
NO. OF ROWS	:	4
ROW LENGTH (METRE)	:	4
NO. OF REPLICATIONS	:	4
NO. OF LOCATIONS	:	17

LOCATIONS: LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, VARANASI, RANCHI, BHUBANESHWAR, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, ARBHAVI, VAGARAI, BANSWARA, GODHRA

					REPLICATIONS		
E.No.	**Entry Name**	**DMR Code**	**INSTITUTE NAME**	**R I**	**R II**	**R III**	**RIV**
1	MMHQPM-6-12-13-QPMII	DMR801	TCA ,Dholi	8001	8010	8012	8017
2	VEHQ 14-1-QPM1	DMR802	VARANASI	8004	8009	8014	8020
3	HQPM 1-C	DMR803	HAU	8005	8007	8011	8018
4	HQPM 5-C	DMR804	HAU	8003	8008	8013	8016
5	HM9-FILLER	DMR805	HAU	8002	8006	8015	8019

TRIAL NO.11-IVT	:	PATHOLOGY IVT LATE
MATURITY	:	IVT-LATE
YEAR	:	2014-2015
SEASON	:	RABI
NO. OF ROWS	:	2
ROW LENGTH (METRE)	:	4
NO. OF REPLICATIONS	:	2
PATHOLOGY LOCATIONS	:	6
LOCATIONS NAME	: LUDHIANA, DHOLI, HYDERABAD, ARBHAVI, MANDYA, KARNAL	

E.No.	Entry Name	DMR CODE	Institute	RI	RII
1	IP 8510	DMR101	Monsanto India Ltd.	1004	1060
2	CCH 4039	DMR102	Rohini Seeds Pvt. Ltd.	1035	1059
3	SYN427210	DMR103	Syngenta India Ltd.	1027	1044
4	DMRH 1423	DMR104	DMR New delhi	1012	1072
5	PM14202L	DMR105	PHI Seeds Pvt.Ltd.(Pioneer)	1001	1065
6	Rasi 394	DMR106	Rasi Seed Pvt. Ltd.	1030	1047
7	SYN426702	DMR107	Syngenta India Ltd.	1040	1042
8	PM14206L	DMR108	PHI Seeds Pvt.Ltd.(Pioneer)	1016	1068
9	HKH 424	DMR109	CCS HAU Karnal	1029	1057
10	JKMH 4023	DMR110	JK Agri Genetics Ltd.	1039	1071
11	SMH 3903	DMR111	Shakti Seeds Pvt. Ltd.	1010	1056
12	JH 295	DMR112	PAU Ludhiana	1026	1053
13	PM14204L	DMR113	PHI Seeds Pvt.Ltd.(Pioneer)	1023	1066
14	PM14208L	DMR114	PHI Seeds Pvt.Ltd.(Pioneer)	1020	1061
15	KH 2847	DMR115	Kanchan Ganga Seed Pvt. Ltd.	1021	1077
16	HT 142107	DMR116	Hytech Seed India Pvt. Ltd.	1034	1045
17	SHIATS MS-3	DMR117	SHIAT&S,Nani Allahabad	1019	1076
18	CP .444	DMR118	C.P.Seeds Pvt.Ltd.	1002	1049
19	Genesis MH-102	DMR119	Genesis Agro Seeds Pvt. Ltd.	1024	1051
20	GMH 275	DMR120	Godrej Seeds & Genetics Ltd.	1037	1063
21	PM14201L	DMR121	PHI Seeds Pvt.Ltd.(Pioneer)	1005	1074
22	CCH 1040	DMR122	Rohini Seeds Pvt. Ltd.	1008	1073
23	KH 2977	DMR123	Kanchan Ganga Seed Pvt. Ltd.	1009	1058
24	PM14203L	DMR124	PHI Seeds Pvt.Ltd.(Pioneer)	1013	1080
25	PM14205L	DMR125	PHI Seeds Pvt.Ltd.(Pioneer)	1032	1064
26	JH 357	DMR126	PAU Ludhiana	1015	1078
27	KMH 3812	DMR127	Kaveri Seed Com. Ltd.	1007	1070
28	NMH 1290	DMR128	Nuziveedu Seeds Ltd.	1014	1055
29	GK 3124	DMR129	Ganga Kaveri Seeds Pvt. Ltd.	1011	1043
30	PM14207L	DMR130	PHI Seeds Pvt.Ltd.(Pioneer)	1033	1041
31	GK 3153	DMR131	Ganga Kaveri Seeds Pvt. Ltd.	1038	1067
32	GMH 909	DMR132	Godrej Seeds & Genetics Ltd.	1017	1062
33	IM 8119	DMR133	Monsanto India Ltd.	1025	1079
34	JH 409	DMR134	PAU Ludhiana	1006	1069
35	DKC 9150	DMR135	Monsanto India Ltd.	1028	1054
36	VEH 14-2	DMR136	VARANASI	1003	1050
37	VEH 14-1	DMR137	VARANASI	1036	1052
38	Seedtech 2324-C	DMR138	Bisco	1018	1048
39	Bio9681-C	DMR139	Bio seed	1031	1046
40	Buland-C	DMR140	Bio seed	1022	1075

TRIAL NO.11-IVT-Medium	:	PATHOLOGY IVT-Medium
MATURITY	:	IVT-MEDIUM
YEAR	:	2014-2015
SEASON	:	RABI
NO. OF ROWS	:	2
ROW LENGTH (METRE)	:	4
NO. OF REPLICATIONS	:	2
PATHOLOGY LOCATIONS	:	6
LOCATIONS NAME	:LUDHIANA, DHOLI, HYDERABAD, ARBHAVI, MANDYA, KARNAL	

E.No.	Entry Name	DMR CODE	Institute	RI	RII
1	BH 412067	DMR201	MRC,ARI,Hyderabad	2012	2056
2	PM 142096M	DMR202	PHI Seeds Pvt.Ltd.(Pioneer)	2018	2035
3	MMHQPM-09-2014	DMR203	TCA ,Dholi	2030	2059
4	KNMH 4010131	DMR204	ARS, Karimnagar	2023	2053
5	DMRH 1420	DMR205	DMR New delhi	2026	2039
6	MMHQPM-010-2014	DMR206	TCA ,Dholi	2032	2044
7	IHQ 091	DMR207	MRC,Godhra	2019	2038
8	HKH 346	DMR208	CCS HAU Karnal	2008	2034
9	BH 412066	DMR209	MRC,ARI,Hyderabad	2007	2052
10	BH 412065	DMR210	MRC,ARI,Hyderabad	2003	2041
11	BLH 102	DMR211	Bisco Bio Sciences Pvt. Ltd.	2004	2057
12	BH 412064	DMR212	MRC,ARI,Hyderabad	2028	2066
13	KH 518	DMR213	Kanchan Ganga Seed Pvt. Ltd.	2020	2061
14	IH 031	DMR214	MRC,Godhra	2009	2051
15	IHQ 092	DMR215	MRC,Godhra	2029	2037
16	DMRH 1422	DMR216	DMR New delhi	2001	2055
17	HKH 345	DMR217	CCS HAU Karnal	2006	2045
18	BH 412044	DMR218	MRC,ARI,Hyderabad	2011	2058
19	BLH 101	DMR219	Bisco Bio Sciences Pvt. Ltd.	2010	2036
20	MMHQPM-07-2014	DMR220	TCA ,Dholi	2033	2060
21	DMRH 1419	DMR221	DMR New delhi	2017	2065
22	BH 412055	DMR222	MRC,ARI,Hyderabad	2014	2054
23	CP .222	DMR223	C.P.Seeds Pvt.Ltd.	2002	2063
24	IM 8013	DMR224	Monsanto India Ltd.	2031	2062
25	HT 1412081	DMR225	Hytech Seed India Pvt. Ltd.	2013	2040
26	MMHQPM-11-2014	DMR226	TCA ,Dholi	2024	2064
27	BH 412062	DMR227	MRC,ARI,Hyderabad	2022	2042
28	MMHQPM-08-2014	DMR228	TCA ,Dholi	2027	2047
29	DMRH 1410	DMR229	DMR New delhi	2021	2048
30	KH K 85	DMR230	Kanchan Ganga Seed Pvt. Ltd.	2005	2046
31	DMRH 1421	DMR231	DMR New delhi	2025	2043
32	Bio9637-C	DMR232	Bioseed	2016	2050
33	HM10-C	DMR233	HAU Karnal	2015	2049

TRIAL NO.11-AVT-I-II-LATE	:	PATHO-ENTO-LATE
MATURITY	:	AVT-I-II LATE
YEAR	:	2014-2015
SEASON	:	RABI
NO. OF ROWS	:	2
ROW LENGTH (METRE)	:	4
NO. OF REPLICATIONS	:	2
LOCATIONS NO.	:	6 (Patho)+2 (Ento)=8
PATHOLOGY	:LUDHIANA, DHOLI, HYDERABAD, ARBHAVI, MANDYA, KARNAL	
ENTOMOLOGY	:HYDERABAD, KOLHAPUR	

E.No.	Entry Name	DMR CODE	Institute	RI	RII
			AVT-II LATE		
1	X35C537	DMR811	PHI Seeds Pvt.Ltd.(Pioneer)	8064	8104
2	GK 3150	DMR812	Ganga Kaveri Seeds Pvt. Ltd.	8067	8077
3	Ivori	DMR813	Pravardhan Seeds Pvt.Ltd.	8041	8098
4	KMH 2589	DMR814	Kaveri Seed Com. Ltd.	8053	8087
5	TH 22	DMR815	Yaaganti Seeds Pvt. Ltd.	8065	8088
6	P3533	DMR816	PHI Seeds Pvt.Ltd.(Pioneer)	8044	8090
7	Bisco X 6573	DMR817	Bisco Bio Sciences Pvt. Ltd.	8033	8089
8	JH 270	DMR818	PAU Ludhiana	8048	8075
9	DKC 9120	DMR819	Monsanto India Ltd.	8054	8100
10	Venus	DMR820	Prabhat Agri Biotech Ltd.	8034	8108
11	TH 2	DMR821	Yaaganti Seeds Pvt. Ltd.	8057	8085
12	PMH 189	DMR822	Pravardhan Seeds Pvt.Ltd.	8038	8102
13	PMH 2277	DMR823	Prabhat Agri Biotech Ltd.	8037	8106
14	IL 8212	DMR824	Monsanto India Ltd.	8069	8078
15	IL 8534	DMR825	Monsanto India Ltd.	8047	8099
16	Megan-G	DMR826	Pravardhan Seeds Pvt.Ltd.	8045	8074
			AVT-I LATE		
17	HTMH 5108	DMR827	Hytech Seed India Pvt. Ltd.	8043	8082
18	IM 8222	DMR828	Monsanto India Ltd.	8063	8072
19	GK 3118	DMR829	Ganga Kaveri Seeds Pvt. Ltd.	8042	8103
20	Rasi 950	DMR830	Rasi Seed Pvt. Ltd.	8066	8070
21	CSM1	DMR831	IARI NEW DELHI	8059	8091
22	KH 3021	DMR832	Kanchan Ganga Seed Pvt. Ltd.	8051	8095
23	CP .111	DMR833	C.P.Seeds Pvt.Ltd.	8052	8096
24	HTMH 5202	DMR834	Hytech Seed India Pvt. Ltd.	8061	8083
25	KH 2192	DMR835	Kanchan Ganga Seed Pvt. Ltd.	8032	8071
26	JH 8837	DMR836	PAU Ludhiana	8060	8084
27	CP .333	DMR837	C.P.Seeds Pvt.Ltd.	8039	8101
28	GK 3155	DMR838	Ganga Kaveri Seeds Pvt. Ltd.	8056	8076
29	CP .999	DMR839	C.P.Seeds Pvt.Ltd.	8058	8097
30	KMH 1411	DMR840	Kaveri Seed Com. Ltd.	8050	8079
31	JH 293	DMR841	PAU Ludhiana	8036	8092
32	CP .838	DMR842	C.P.Seeds Pvt.Ltd.	8055	8081
33	DMRH1308	DMR843	DMR New delhi	8040	8080
34	X35F880	DMR844	PHI Seeds Pvt.Ltd.(Pioneer)	8068	8073
35	Rasi 393	DMR845	Rasi Seed Pvt. Ltd.	8049	8093
36	Rasi 864	DMR846	Rasi Seed Pvt. Ltd.	8031	8105

37	Seedtech 2324-C	DMR847	Bisco	8062	8086
38	Bio9681-C	DMR848	Bio seed	8046	8107
39	Buland-C	DMR849	Bio seed	8035	8094

TRIAL NO.11-AVT-I-II-MEDIUM : PATHO-ENTO-MEDIUM
MATURITY : AVT-I-II MEDIUM
YEAR : 2014-2015
SEASON : RABI
NO. OF ROWS : 2
ROW LENGTH (METRE) : 4
NO. OF REPLICATIONS : 2
LOCATIONS NO. : 6 (Patho)+2 (Ento)=8
PATHOLOGY :LUDHIANA, DHOLI, HYDERABAD, ARBHAVI, MANDYA, KARNAL
ENTOMOLOGY :HYDERABAD, KOLHAPUR

E.No.	Entry Name	DMR CODE	Institute	RI	RII
			AVT-II MEDIUM		
1	PMH 2246	DMR861	Prabhat Agri Biotech	8138	8156
2	HKH 325*	DMR862	CCS HAU Karnal	8133	8148
3	DKC 9155(IL8536)	DMR863	Monsanto India Ltd.	8137	8150
4	DKC 9142(IJ 8214)	DMR864	Monsanto India Ltd.	8135	8149
5	KH K26	DMR865	Kanchan Ganga Seed	8131	8141
6	DKC9135(IJ 8521)	DMR866	Monsanto India Ltd.	8129	8145
			AVT-I MEDIUM		
7	GPS MAINA	DMR867	GPS Biotech Pvt. Ltd.	8136	8155
8	BL 798	DMR868	Bisco Bio Sciences Pvt. Ltd.	8125	8139
9	DMRH1307	DMR869	DMR New delhi	8126	8144
10	IM 8303 (DKC9166)	DMR870	Monsanto India Ltd.	8130	8154
11	DMRH1306	DMR871	DMR New delhi	8128	8153
12	DMRH1302	DMR872	DMR New delhi	8123	8142
13	BL 147	DMR873	Bisco Bio Sciences Pvt. Ltd.	8124	8147
14	DMRH1301	DMR874	DMR New delhi	8127	8152
15	BL 900	DMR875	Bisco Bio Sciences Pvt. Ltd.	8132	8151
16	KH 517	DMR876	Kanchan Ganga Seed Pvt. Ltd.	8134	8146
17	CSM2	DMR877	IARI, NEW DELHI	8121	8140
18	Bio9637-C	DMR878	Bioseed	8122	8143

TRIAL NO.11-AVT-I-II-EARLY-QPM	:	PATHO-ENTO-EARLY-QPM
MATURITY	:	AVT-I-II EARLY-QPM
YEAR	:	2014-2015
SEASON	:	RABI
NO. OF ROWS	:	2
ROW LENGTH (METRE)	:	4
NO. OF REPLICATIONS	:	2
LOCATIONS NO.	:	6 (Patho)+2 (Ento)=8
PATHOLOGY	:LUDHIANA, DHOLI, HYDERABAD, ARBHAVI, MANDYA, KARNAL	
ENTOMOLOGY	:HYDERABAD, KOLHAPUR	

E.No.	Entry Name	DMR CODE	Institute	RI	RII
			AVT-II EARLY		
1	KH K25	DMR891	Kanchan Ganga	8178	8190
2	HKH 329*	DMR892	HAU, Karnal	8175	8184
3	HKH 330*	DMR893	HAU, Karnal	8179	8185
			AVT-I EARLY		
4	HKH 336*	DMR894	HAU, Karnal	8176	8181
5	Prakash-C	DMR895	PAU, LUDHIANA	8172	8182
			QPMI-II		
6	MMHQPM-6-12-13-QPMII	DMR896	DHOLI	8171	8183
7	VEHQ 14-1-QPM1	DMR897	VARANASI	8173	8187
8	HQPM 1-C	DMR898	HAU, Karnal	8177	8189
9	HQPM 5-C	DMR899	HAU, Karnal	8180	8188
10	HM9-FILLER	DMR900	HAU, Karnal	8174	8186

BREEDING

TABLE No.	CONTENTS	PAGE No.
	Breeding - Results Summary	BR1-6
	Initial Varietal Trials (IVT)	
1	Performance of late maturing experimental hybrids at Kanpur, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Karimnagar, Kolhapur, Mandya, Vagarai, Banswara, Godhra in IVT trial no. TR1 (IVT-Late) during Rabi (2014-15)	BR7-29
2	Performance of medium maturing experimental hybrids at Kanpur, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Ranchi, Varanasi, Arbhavi, Coimbatore, Karimnagar, Kolhapur, Mandya, Vagarai, Banswara, Godhra in IVT trial no. 2 (IVT-Medium) during Rabi (2014-15)	BR30-43
	Advanced Varietal Trials (AVT)	
3	Performance of late maturing experimental hybrids at Kanpur, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Karimnagar, Kolhapur, Mandya, Vagarai, Banswara, Godhra in AVT1 Trial No. 4 (AVT- Late) during Rabi (2014-15)	BR44-56
4	Performance of medium maturing experimental hybrids at Kanpur, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Karimnagar, Kolhapur, Mandya, Vagarai, Banswara, Godhra in AVT1 Trial No. 5 (AVT1-Medium) during Rabi (2014-15)	BR57-63
5	Performance of early maturing experimental hybrids at Kanpur, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Karimnagar, Kolhapur, Mandya, Vagarai, Banswara, Godhra in AVT1&2 Trial No. 69 (AVT1&2 - Early) during Rabi (2014-15)	BR64-69
6	Performance of late maturing experimental hybrids at Kanpur, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Karimnagar, Kolhapur, Mandya, Vagarai, Banswara, Godhra in AVT2 Trial No. 7 (AVT2-Late) during Rabi (2014-15)	BR70-82
7	Performance of medium experimental hybrids at Kanpur, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Karimnagar, Kolhapur, Mandya, Vagarai, Banswara, Godhra in AVT2 trial no. 8 (AVT2-Medium) during Rabi (2014-15)	BR83-89
8	Performance of experimental hybrids at Kanpur, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Karimnagar, Kolhapur, Mandya, Vagarai, Banswara, Godhra in trial no. QPM12 during Rabi (2014-15)	BR90-96

Breeding summary of AICRP rabi 2014-15 trials

Constitution of AICRP trials for multi-locations evaluation during *Rabi* 2014-15

In *Rabi* 2014-15, total of 128 entries were received for multi-location evaluation in AICRP trials. Of 128 test entries, 47 were received from public and 81 from private (Table I). Total nine different breeding trials were constituted and put for evaluation at 17 test centres across the four zones. From 2014-15 rabi, no early trials were allocated during rabi season because of less suitability of early and extra early hybrids comparing to late and medium maturity in production ecology of rabi season. The entries were promoted based on the criteria enlisted in table II. The detail list of entries promoted from rabi 2014-15 to rabi 2015-16 are given in table III.

Table I Number of public and private maize hybrids received for testing in AICRP trials of *Rabi*-2014-15.

Initial Varietal Trial (IVT)			
	Late Maturity	**Medium Maturity**	**Early Maturity**
Public	8	23	NIL
Private	29	8	NIL
Total	37	31	NIL
Advance Varietal Trial-I (AVT-I)			
	Late Maturity	**Medium Maturity**	**Early Maturity**
Public	4	5	1
Private	17	6	0
Total	21	11	1
Advance Varietal Trial-II (AVT-II)			
	Late Maturity	**Medium Maturity**	**Early Maturity**
Public	1	1	2
Private	15	5	1
Total	16	6	3
Quality protein maize (QPM)-I-II-I			
	Public	Private	Total
	2	0	2

Table II Criteria used for promotion of hybrids in various maturity groups

Trials	**% Superiority over the best relevant check for mean grain yield in respective zone**	**Days to Silking**
IVT Late to AVT I Late maturity	10%	Not considered
IVT Medium to AVT I Medium	10%	Days to silking of test entry should not be > Check + 1.5 days figure
AVTI Late to AVTII Late	5%	Not considered

AVTI Medium to AVTII Medium	10%	Days to silking of test entry should not be > Check + 1.5 days figure
AVTI Early to AVTII Early	10%	Days to silking of test entry should not be > Check + 1.5 days figure
QPMII to QPMII and to QPMII	5%	Not considered

Besides above, major diseases were also considered as the new criteria of promotion for the first time. The details of diseases and scale used while promotion is given in pathology section of this report.

Table III. List of Entries promoted from Rabi 2014-15 to Rabi 2015-2016

Zone-II (IVT Late to AVT-I Late)			
E.N.	**Hybrids Name**	**Rank**	**%Sup**
23	KH 2977	1.0	9.8
38	**Seedtech 2324-C**	**23.0**	**-**
Zone-III (IVT Late to AVT-I Late)			
E.N.	**Hybrids Name**	**Rank**	**%Sup**
7	SYN426702	1.0	23.7
18	CP 444	2.0	22.5
33	IM 8119	3.0	22.1
6	Rasi 394	4.0	22.1
16	HT 142107	5.0	20.1
29	GK 3124	6.0	17.3
1	IP 8510	7.0	16.4
21	PM14201L	8.0	13.5
5	PM14202L	9.0	12.7
14	PM14208L	10.0	12.4
23	KH 2977	11.0	11.1
39	**Bio9681-C**	**21.0**	**-**
Zone-IV (IVT Late to AVT -I Late)			
E.N.	**Hybrids Name**	**Rank**	**%Sup**
6	Rasi 394	1.0	28.7
33	IM 8119	2.0	27.6
30	PM14207L	3.0	26.0
18	CP 444	4.0	24.9
5	PM14202L	5.0	24.2
1	IP 8510	6.0	22.5
24	PM14203L	7.0	22.1
3	SYN427210	8.0	17.2
21	PM14201L	9.0	16.8
31	GK 3153	10.0	15.9

14	PM14208L	11.0	13.5
29	GK 3124	12.0	12.5
28	NMH 1290	13.0	12.1
8	PM14206L	14.0	11.3
7	SYN426702	15.0	11.1
38	**Seedtech 2324-C**	**25.0**	**-**
Zone-V (IVT Late to AVT -I Late)			
E.N.	**Hybrids Name**	**Rank**	**%Sup**
14	PM14208L	1.0	27.3
5	PM14202L	2.0	26.8
6	Rasi 394	3.0	25.6
33	IM 8119	4.0	22.1
8	PM14206L	5.0	21.4
18	CP 444	6.0	19.0
23	KH 2977	7.0	17.0
31	GK 3153	8.0	14.8
30	PM14207L	9.0	12.6
28	NMH 1290	10.0	10.8
24	PM14203L	11.0	10.6
25	PM14205L	12.0	10.4
3	SYN427210	13.0	10.3
1	IP 8510	14.0	10.1
38	**Seedtech 2324-C**	**25.0**	**-**
Zone-II (IVT Medium to AVT-I Medium)			
E.N.	**Hybrids Name**	**Rank**	**%Sup**
24	IM 8013	1.0	19.5
11	BLH 102	2.0	12.8
25	HT 1412081	3.0	10.5
32	**Bio 9637-C**	**13.0**	**-**
Zone-III (IVT Medium to AVT-I Medium)			
E.N.	**Hybrids Name**	**Rank**	**%Sup**
23	CP .222	1.0	29.7
11	BLH 102	2.0	28.5
24	IM 8013	3.0	24.3
2	PM 142096M	4.0	11.9
32	**Bio 9637-C**	**11.0**	**-**
Zone-IV (IVT Medium to AVT-I Medium)			
E.N.	**Hybrids Name**	**Rank**	**%Sup**
9	BH 412066	1.0	16.3
23	CP .222	2.0	14.2
24	IM 8013	3.0	13.4
32	**Bio 9637-C**	**11.0**	**-**

Zone-V (IVT Medium to AVT-I Medium)			
E.N.	**Hybrids Name**	**Rank**	**%Sup**
9	BH 412066	1.0	34.1
23	CP .222	2.0	32.8
21	DMRH 1419	3.0	21.5
19	BLH 101	5.0	20.5
18	BH 412044	6.0	14.3
11	BLH 102	8.0	12.2
2	PM 142096M	9.0	11.9
32	**Bio 9637-C**	**16.0**	**-**

Zone-II (AVT-I Late to AVT-II Late)			
E.N.	**Hybrids Name**	**Rank**	**%Sup**
13	CP 999	1.0	21.1
2	IM 8222	2.0	20.9
8	HTMH 5202	3.0	16.4
12	GK 3155	4.0	15.8
4	Rasi 950	5.0	14.4
11	CP 333	6.0	12.3
20	Rasi 864	7.0	10.3
9	KH 2192	8.0	8.1
18	X35F880	9.0	7.1
19	Rasi 393	10.0	6.6
14	KMH 1411	11.0	5.8
6	KH 3021	12.0	5.1
21	**Seedtech 2324-C**	**19.0**	**-**

Zone-III (AVT-I Late to AVT-II Late)			
E.N.	**Hybrids Name**	**Rank**	**%Sup**
18	X35F880	1.0	22.9
2	IM 8222	2.0	22.8
11	CP 333	3.0	19.4
14	KMH 1411	4.0	17.9
8	HTMH 5202	5.0	17.3
16	CP 838	6.0	16.1
1	HTMH 5108	7.0	16.0
20	Rasi 864	8.0	15.9
6	KH 3021	9.0	15.9
4	Rasi 950	10.0	11.5
12	GK 3155	11.0	11.5
13	CP 999	12.0	11.3
21	**Seedtech 2324-C**	**18.0**	**-**

Zone-IV (AVT-I Late to AVT-II Late)			
E.N.	**Hybrids Name**	**Rank**	**%Sup**
1	HTMH 5108	1.0	23.1
16	CP 838	2.0	23.0
18	X35F880	3.0	21.7
11	CP 333	4.0	21.6
13	CP 999	5.0	19.0
9	KH 2192	6.0	18.3
20	Rasi 864	7.0	17.5
8	HTMH 5202	8.0	16.7
2	IM 8222	9.0	15.9
12	GK 3155	10.0	15.0
6	KH 3021	11.0	12.4
7	CP 111	12.0	12.3
3	GK 3118	13.0	12.2
17	DMRH1308	14.0	11.8
10	JH 8837	15.0	5.9
19	Rasi 393	16.0	5.7
4	Rasi 950	17.0	5.6
21	**Seedtech 2324-C**	**19.0**	**-**
Zone-V (AVT-I Late to AVT-II Late)			
	Hybrids Name	**Rank**	**%Sup**
9	KH 2192	1.0	30.3
7	CP 111	2.0	19.5
12	GK 3155	3.0	17.6
11	CP 333	4.0	15.0
16	CP 838	5.0	13.4
14	KMH 1411	6.0	11.4
17	DMRH1308	7.0	9.0
18	X35F880	8.0	5.1
22	**Bio 9681-C**	**13.0**	**-**
Zone-II (AVT I Medium toAVT-II Medium)			
E.N.	**Hybrids Name**	**Rank**	**%Sup**
1	GPS MAINA	1.0	20.4
9	BL 900	2.0	17.1
2	BL 798	3.0	16.0
7	BL 147	4.0	15.2
12	**Bio9637-C**	**12.0**	**-**
Zone-III (AVT I Medium toAVT-II Medium)			
E.N.	**Hybrids Name**	**Rank**	**%Sup**
8	DMRH1301	1.0	20.1
2	BL 798	2.0	15.6
4	IM 8303(DKC9166)	3.0	11.4
12	**Bio9637-C**	**6.0**	**-**

Z-IV-No entry were promoted			
Zone-V (AVT I Medium toAVT-II Medium)			
E.N.	**Hybrids Name**	**Rank**	**%Sup**
8	DMRH1301	1.0	35.2
1	GPS MAINA	2.0	25.7
2	BL 798	3.0	23.3
9	BL 900	4.0	22.6
4	IM 8303(DKC9166)	5.0	19.9
7	BL 147	6.0	15.8
10	KH517	7.0	9.7
QPM-I to QPM- II to QPMIII) No entry were promoted			
AVT I Early to AVT II Early Maturity No any entry was promoted			

TABLE No. 1: **Performance of late maturing experimental hybrids at Kanpur, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Karimnagar, Kolhapur, Mandya, Vagarai, Banswara, Godhra in trial no. TR1 (IVT-Late) during Rabi (2014-15)**

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																					
Sl										ZN 2												ZN 3	
No	PEDIGREE	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R
1	IP 8510	9628	37	11134	8	14475	6	18655	1	13473	3	9609	13	7284	16	11361	5	8377	9	13989	10	10124	7
2	CCH 4039	9229	39	10958	11	14305	10	14078	30	12143	27	8497	23	6102	38	9627	17	7477	14	10738	28	8488	22
3	SYN427210	9839	35	11212	7	15688	2	15429	18	13042	12	10720	4	7829	6	6270	39	7128	19	14174	9	9224	14
4	DMRH 1423	8886	40	10053	34	11253	34	14459	27	11163	36	6026	33	7037	22	7234	35	6928	24	10304	32	7506	36
5	PM14202L	10565	27	10808	15	14136	15	17935	3	13361	7	9250	16	6410	31	10697	6	9025	6	13633	12	9803	9
6	Rasi 394	11555	12	10097	31	14100	16	14412	28	12541	20	10019	9	7617	12	10067	13	9908	3	15485	2	10619	4
7	SYN426702	11045	20	10153	26	13205	24	15600	14	12501	22	9388	15	8531	1	10112	12	11192	1	14583	6	10761	1
8	PM14206L	11603	11	10877	14	13249	23	16280	9	13002	13	4381	40	5827	40	8588	23	9171	5	13837	11	8361	26
9	HKH 424	11897	9	11394	5	12603	27	12063	38	11989	28	10252	7	5934	39	7111	36	6444	30	9873	33	7923	31
10	JKMH 4023	11937	8	11035	10	12575	28	15002	21	12637	19	7952	25	7257	18	7505	33	7775	12	9748	34	8047	30
11	SMH 3903	11206	18	10414	24	14202	11	14287	29	12527	21	12782	1	6328	34	8508	25	6496	29	13394	15	9502	13
12	JH 295	10512	29	10192	25	12489	29	13595	33	11697	30	9154	18	7163	19	7706	32	6945	23	10884	27	8370	25
13	PM14204L	13130	1	11407	4	13284	22	15726	11	13387	6	6910	29	7851	5	9743	15	6643	27	14271	7	9084	16
14	PM14208L	11152	19	9264	37	15447	3	17769	4	13408	5	11524	2	7012	23	9674	16	7454	15	13236	16	9780	10
15	KH 2847	10642	26	10544	19	13300	21	14785	26	12318	25	5922	35	6325	35	9522	20	7021	21	13521	14	8462	23
16	HT 142107	11636	10	10516	21	14164	13	15853	10	13042	11	10430	6	8248	3	9595	19	8689	8	15259	4	10444	5
17	SHIATS MS-3	10726	24	9175	38	11191	35	12954	36	11011	38	4506	39	6373	33	8547	24	5851	36	9133	37	6882	40
18	CP 444	11011	21	10615	18	13958	17	15572	16	12789	17	9501	14	7744	9	10651	7	9943	2	15427	3	10653	2
19	Genesis MH-102	11272	17	10885	13	13172	25	15633	13	12741	18	10038	8	7315	15	10128	11	5478	37	11686	22	8929	18
20	GMH 275	10533	28	9889	36	12465	30	13743	31	11657	31	6692	31	7012	24	8154	28	6273	31	10537	30	7734	33
21	PM14201L	11443	15	10540	20	13329	20	16436	8	12937	14	7189	28	7452	13	12388	1	8139	10	14200	8	9874	8
22	CCH 1040	11316	16	10118	28	11923	31	13649	32	11752	29	6025	34	6272	36	9507	21	6030	34	9596	36	7486	37
23	KH 2977	13048	2	10722	17	14387	8	16477	7	13659	1	9007	19	6943	25	11814	4	7507	13	13058	18	9666	11
24	PM14203L	11494	13	10108	29	15300	4	16839	6	13435	4	5348	36	8317	2	11943	3	6966	22	13117	17	9138	15
25	PM14205L	10024	33	10946	12	14797	5	18433	2	13550	2	9004	20	6406	32	6278	38	7287	17	15013	5	8798	19
26	JH 357	10409	31	10472	22	11841	32	12686	37	11352	34	7648	26	7279	17	10346	8	7055	20	11495	24	8765	20
27	KMH 3812	9860	34	10120	27	10141	38	14873	23	11249	35	9685	11	7895	4	6317	37	4360	38	12087	21	8069	29
28	NMH 1290	10947	22	8917	39	14334	9	17200	5	12849	16	9003	21	7139	21	8438	26	6620	28	13570	13	8954	17
29	GK 3124	11982	6	11249	6	14146	14	14793	25	13042	10	10940	3	7766	8	10202	9	9195	4	12902	19	10201	6

TABLE No. 1: (Cont...)

Sl No	PEDIGREE	ARBH	R	COIM	R	KARI	R	KOLH	R	MAND	R	VAGA	R	ZN 4 MEAN	R	BANS	R	GODH	R	ZN 5 MEAN	R	OV'L MEAN	R
1	IP 8510	11929	9	13469	2	10034	14	11400	1	8242	16	6663	22	10290	6	8258	38	13863	6	11060	14	11081	5
2	CCH 4039	10137	22	9899	32	9391	25	7397	22	9135	9	4676	30	8439	24	9772	17	9042	35	9407	35	9439	25
3	SYN427210	10250	20	13443	3	11149	10	7456	21	8253	15	8518	3	9845	8	11250	2	10918	19	11084	13	10560	12
4	DMRH 1423	9941	24	10040	31	7359	35	6935	29	8003	17	4400	35	7780	34	9647	21	10376	24	10011	26	8758	35
5	PM14202L	13514	5	13060	7	11606	5	10023	2	5774	38	8641	2	10436	5	9269	30	16194	1	12732	2	11208	4
6	Rasi 394	15255	2	13430	4	11554	7	7149	26	9434	5	8049	7	10812	1	9500	24	15726	2	12613	3	11374	2
7	SYN426702	10605	17	10950	21	9448	23	6903	30	10011	3	8097	6	9336	15	9540	23	11247	18	10394	19	10624	10
8	PM14206L	13226	6	10064	30	12003	3	8437	10	7800	22	4558	32	9348	14	9854	15	14526	4	12190	5	10252	16
9	HKH 424	6733	38	9718	35	9542	20	7485	20	6090	37	4663	31	7372	36	9122	32	9807	31	9464	34	8867	33
10	JKMH 4023	7732	34	10919	22	9029	28	6460	33	9329	8	7266	13	8456	22	10326	6	11268	17	10797	16	9595	24
11	SMH 3903	8048	33	12707	12	10108	13	7727	16	7957	18	4270	36	8470	21	10017	8	10147	28	10082	22	9918	20
12	JH 295	5352	40	10905	23	10861	12	6318	35	4807	39	4407	34	7108	38	9605	22	8190	39	8897	37	8770	34
13	PM14204L	11639	11	10844	24	8456	29	9702	4	6177	36	6833	19	8942	18	9728	19	10207	26	9968	27	10150	18
14	PM14208L	10962	14	12464	13	11399	8	8512	9	6894	33	6979	18	9535	11	10561	4	15013	3	12787	1	10901	7
15	KH 2847	11686	10	9864	34	9585	19	7881	14	7685	23	7454	11	9026	17	9356	28	10744	21	10050	24	9755	22
16	HT 142107	8249	32	12216	14	5791	40	7308	25	9360	7	7787	9	8452	23	9958	9	9747	32	9852	28	10283	15
17	SHIATS MS-3	7003	36	6605	40	7133	36	4750	40	7110	29	6000	27	6434	40	9760	18	7322	40	8541	39	7891	40
18	CP 444	15659	1	11921	15	11776	4	9805	3	7234	26	6563	23	10493	4	11481	1	12435	11	11958	6	11253	3
19	Genesis MH-102	10513	18	10205	29	10879	11	8242	13	7492	25	4084	38	8569	20	9889	13	10247	25	10068	23	9833	21
20	GMH 275	10633	16	10405	28	7929	31	6695	32	7526	24	7191	16	8396	26	9900	12	10667	22	10283	20	9191	29
21	PM14201L	14012	3	11166	19	9526	21	8948	7	6401	35	8812	1	9811	9	7945	39	9851	30	8898	36	10457	13
22	CCH 1040	9104	28	10439	26	5920	39	7589	18	7140	28	6814	20	7834	33	9014	34	11980	14	10497	17	8967	32
23	KH 2977	9457	26	13369	5	9418	24	7317	24	7941	19	7381	12	9147	16	9279	29	14235	5	11757	7	10668	9
24	PM14203L	13161	8	12883	8	12711	2	9453	5	6782	34	6554	24	10257	7	9876	14	12350	12	11113	11	10777	8
25	PM14205L	9268	27	9353	37	9624	18	7653	17	9099	10	4523	33	8253	30	8683	36	13499	8	11091	12	9993	19
26	JH 357	6120	39	10748	25	9686	17	7561	19	6955	32	7227	14	8050	32	9403	26	9564	34	9484	33	9206	28
27	KMH 3812	10341	19	11538	18	7427	34	8421	11	7925	20	4041	39	8282	29	9037	33	11758	16	10398	18	9166	31
28	NMH 1290	10195	21	11897	16	9923	15	7389	23	9362	6	7756	10	9420	13	10209	7	12054	13	11132	10	10291	14
29	GK 3124	13549	4	14207	1	8006	30	5919	38	7845	21	7210	15	9456	12	9716	20	10580	23	10148	21	10600	11

TABLE No. 1 (Cont...)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																				
										ZN 2											ZN 3	
		KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R
30	PM14207L	11468	14	11562	2	14442	7	15642	12	13278	8	9618	12	7799	7	10163	10	8869	7	11073	25	9504	12
31	GK 3153	12246	4	10100	30	14165	12	14915	22	12857	15	4776	38	7383	14	10040	14	7933	11	10902	26	8207	28
32	GMH 909	10787	23	6690	40	13797	19	14852	24	11532	33	9780	10	6713	28	9602	18	6828	25	8348	40	8254	27
33	IM 8119	10216	32	10436	23	16201	1	15571	17	13106	9	10651	5	6431	30	12282	2	7412	16	16331	1	10621	3
34	JH 409	9644	36	10057	33	11012	36	11520	39	10558	39	6480	32	6838	27	7867	31	6252	32	8961	39	7280	38
35	DKC 9150	9519	38	10755	16	13849	18	15596	15	12430	24	6841	30	7696	10	8336	27	6767	26	12315	20	8391	24
36	VEH 14-2	12351	3	11059	9	10577	37	15044	19	12258	26	7297	27	7677	11	9106	22	4000	39	9628	35	7542	35
37	VEH 14-1	10427	30	10007	35	8420	39	13132	35	10496	40	9191	17	6205	37	6002	40	5951	35	10448	31	7560	34
	CHECKS																						
38	Seedtech 2324-C	11962	7	11752	1	12866	26	13180	34	12440	23	8092	24	6609	29	7883	30	6211	33	10661	29	7891	32
39	Bio9681-C	10690	25	10094	32	8391	40	15011	20	11046	37	8664	22	7146	20	7373	34	-	40	11612	23	8699	21
40	Buland-C	12044	5	11531	3	11526	33	11494	40	11649	32	4981	37	6926	26	8057	29	7170	18	8987	38	7224	39
	Location Mean	**10997**		**10446**		**13118**		**15029**		**12398**		**8344**		**7102**		**9119**		**7302**		**12200**		**8820**	
	C.D. (5%)	953		286		2467		2217		1481		1142		608		2958		1472		1371		1510	
	C.V. (%)	5.33		1.68		11.57		9.07		-		8.42		5.26		19.95		10.22		6.91		-	
	F (Prob)	0		0		0		0				0		0		0		0		0			
	Plot Size	4.8		6		4.8		6		-		4.8		4.8		5.6		5.6		4.8		-	
	AGRONOMY DATA																						
	Sowing Date	8-12		22-11		2-02		2-12		-		22-11		5-12		26-11		5-12		21-11		-	
	Harvest Date	20-05		26-05		11-06		1-06		-		10-05		24-04		30-05		2-06		7-05		-	
	Irrigation Nos	4		9		12		6		-		5		-		2		8		3		-	
	Ferilizer Applied N	120		150		70		120		-		150		120		150		140		150		-	
	Ferilizer Applied P	60		60		24		60		-		75		60		70		60		75		-	
	Ferilizer Applied K	50		60		12		40		-		60		60		60		40		60		-	

TABLE No. 1 (Cont...)

Sl No	PEDIGREE	ARBH	R	COIM	R	KARI	R	KOLH	R	MAND	R	VAGA	R	ZN 4 MEAN	R	BANS	R	GODH	R	ZN 5 MEAN	R	OV'L MEAN	R
30	PM14207L	11265	13	13233	6	11163	9	8871	8	10551	2	8414	4	10583	3	9191	31	13440	9	11315	9	10986	6
31	GK 3153	13187	7	12808	9	9776	16	8975	6	9787	4	3908	40	9740	10	9847	16	13215	10	11531	8	10233	17
32	GMH 909	10665	15	10435	27	9377	26	5676	39	8519	12	5411	28	8347	27	9947	10	11779	15	10863	15	9365	27
33	IM 8119	11452	12	12783	10	12951	1	8412	12	10841	1	7874	8	10719	2	10953	3	13578	7	12265	4	11434	1
34	JH 409	9568	25	9048	38	7761	32	7863	15	7193	27	4254	37	7614	35	8917	35	8239	38	8578	38	8322	39
35	DKC 9150	8563	31	8668	39	11605	6	6990	27	9069	11	8291	5	8864	19	8356	37	10898	20	9627	31	9654	23
36	VEH 14-2	8863	29	11859	17	9187	27	6283	36	7052	30	6680	21	8321	28	9397	27	9875	29	9636	30	9173	30
37	VEH 14-1	8583	30	12730	11	6131	38	6365	34	8409	14	6337	25	8092	31	10543	5	8987	36	9765	29	8698	36
	CHECKS																						
38	Seedtech 2324-C	9959	23	9541	36	9475	22	6737	31	8471	13	6230	26	8402	25	9906	11	10183	27	10045	25	9395	26
39	Bio9681-C	6806	37	9867	33	6751	37	6194	37	6996	31	4829	29	6907	39	5246	40	8674	37	6960	40	8396	38
40	Buland-C	7260	35	10996	20	7574	33	6951	28	4170	40	7162	17	7352	37	9406	25	9729	33	9567	32	8586	37
	Location Mean	**10261**		**11267**		**9476**		**7654**		**7870**		**6420**		**8825**		**9542**		**11304**		**10423**		**9852**	
	C.D. (5%)	2539		614		1163		1721		1189		1641		1478		896		967		932		1424	
	C.V. (%)	15.22		3.35		7.55		13.83		9.29		15.72		-		5.78		5.26		-		-	
	F (Prob)	0		0		0		0		0		0				0		0					
	Plot Size	4.8		4.8		5.6		6		5.6		4.8		-		4.8		4.8		-		-	
	AGRONOMY DAT																						
	Sowing Date	26-11		20-12		30-11		31-12		12-09		20-01		-		30-11		5-12		-		-	
	Harvest Date	20-04		8-04		20-04		6-05		27-04		19-05		-		8-05		17-05		-		-	
	Irrigation Nos	8		10		14		-		12		12		-		6		7		-		-	
	Ferilizer Applied N	150		150		240		120		150		150		-		150		100		-		-	
	Ferilizer Applied P	75		75		80		60		75		75		-		80		50		-		-	
	Ferilizer Applied K	37.5		75		80		40		40		75		-		-		-		-		-	

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seedtech 2324																					
		KANP	KARN	LUDH	PANT	ZN 2 MEAN	BAHR	BHUB	DHOL	RANC	VARA	ZN 3 MEAN	ARBH	COIM	KARI	KOLH	MAND	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	IP 8510	-	-	12.5	41.5	8.3	18.8	10.2	44.1	34.9	31.2	28.3	19.8	41.2	5.9	69.2	-	7	22.5	-	36.1	10.1	17.9
2	CCH 4039	-	-	11.2	6.8	-	5	-	22.1	20.4	0.7	7.6	1.8	3.8	-	9.8	7.8	-	0.4	-	-	-	0.5
3	SYN427210	-	-	21.9	17.1	4.8	32.5	18.4	-	14.8	32.9	16.9	2.9	40.9	17.7	10.7	-	36.7	17.2	13.6	7.2	10.3	12.4
4	DMRH 1423	-	-	-	9.7	-	-	6.5	-	11.6	-	-	-	5.2	-	2.9	-	-	-	-	1.9	-	-
5	PM14202L	-	-	9.9	36.1	7.4	14.3	-	35.7	45.3	27.9	24.2	35.7	36.9	22.5	48.8	-	38.7	24.2	-	59	26.8	19.3
6	Rasi 394	-	-	9.6	9.3	0.8	23.8	15.3	27.7	59.5	45.2	34.6	53.2	40.8	21.9	6.1	11.4	29.2	28.7	-	54.4	25.6	21.1
7	SYN426702	-	-	2.6	18.4	0.5	16	29.1	28.3	80.2	36.8	36.4	6.5	14.8	-	2.5	18.2	30	11.1	-	10.4	3.5	13.1
8	PM14206L	-	-	3	23.5	4.5	-	-	9	47.7	29.8	6	32.8	5.5	26.7	25.2	-	-	11.3	-	42.6	21.4	9.1
9	HKH 424	-	-	-	-	-	26.7	-	-	3.8	-	0.4	-	1.9	0.7	11.1	-	-	-	-	-	-	-
10	JKMH 4023	-	-	-	13.8	1.6	-	9.8	-	25.2	-	2	-	14.4	-	-	10.1	16.6	0.6	4.2	10.7	7.5	2.1
11	SMH 3903	-	-	10.4	8.4	0.7	58	-	7.9	4.6	25.6	20.4	-	33.2	6.7	14.7	-	-	0.8	1.1	-	0.4	5.6
12	JH 295	-	-	-	3.1	-	13.1	8.4	-	11.8	2.1	6.1	-	14.3	14.6	-	-	-	-	-	-	-	-
13	PM14204L	9.8	-	3.3	19.3	7.6	-	18.8	23.6	7	33.9	15.1	16.9	13.7	-	44	-	9.7	6.4	-	0.2	-	8
14	PM14208L	-	-	20.1	34.8	7.8	42.4	6.1	22.7	20	24.2	23.9	10.1	30.6	20.3	26.3	-	12	13.5	6.6	47.4	27.3	16
15	KH 2847	-	-	3.4	12.2	-	-	-	20.8	13.1	26.8	7.2	17.3	3.4	1.2	17	-	19.6	7.4	-	5.5	0.1	3.8
16	HT 142107	-	-	10.1	20.3	4.8	28.9	24.8	21.7	39.9	43.1	32.4	-	28	-	8.5	10.5	25	0.6	0.5	-	-	9.4
17	SHIATS MS-3	-	-	-	-	-	-	-	8.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	CP 444	-	-	8.5	18.1	2.8	17.4	17.2	35.1	60.1	44.7	35	57.2	24.9	24.3	45.5	-	5.3	24.9	15.9	22.1	19	19.8
19	Genesis MH-102	-	-	2.4	18.6	2.4	24.1	10.7	28.5	-	9.6	13.2	5.6	7	14.8	22.3	-	-	2	-	0.6	0.2	4.7
20	GMH 275	-	-	-	4.3	-	-	6.1	3.4	1	-	-	6.8	9.1	-	-	-	15.4	-	-	4.8	2.4	-
21	PM14201L	-	-	3.6	24.7	4	-	12.8	57.2	31.1	33.2	25.1	40.7	17	0.5	32.8	-	41.4	16.8	-	-	-	11.3
22	CCH 1040	-	-	-	3.6	-	-	-	20.6	-	-	-	-	9.4	-	12.6	-	9.4	-	-	17.6	4.5	-
23	KH 2977	9.1	-	11.8	25	9.8	11.3	5.1	49.9	20.9	22.5	22.5	-	40.1	-	8.6	-	18.5	8.9	-	39.8	17	13.6
24	PM14203L	-	-	18.9	27.8	8	-	25.8	51.5	12.2	23	15.8	32.2	35	34.2	40.3	-	5.2	22.1	-	21.3	10.6	14.7
25	PM14205L	-	-	15	39.9	8.9	11.3	-	-	17.3	40.8	11.5	-	-	1.6	13.6	7.4	-	-	-	32.6	10.4	6.4
26	JH 357	-	-	-	-	-	-	10.1	31.2	13.6	7.8	11.1	-	12.7	2.2	12.2	-	16	-	-	-	-	-
27	KMH 3812	-	-	-	12.8	-	19.7	19.5	-	-	13.4	2.3	3.8	20.9	-	25	-	-	-	-	15.5	3.5	-
28	NMH 1290	-	-	11.4	30.5	3.3	11.3	8	7.1	6.6	27.3	13.5	2.4	24.7	4.7	9.7	10.5	24.5	12.1	3.1	18.4	10.8	9.5
29	GK 3124	0.2	-	10	12.2	4.8	35.2	17.5	29.4	48.1	21	29.3	36	48.9	-	-	-	15.7	12.5	-	3.9	1	12.8
30	PM14207L	-	-	12.3	18.7	6.7	18.9	18	28.9	42.8	3.9	20.4	13.1	38.7	17.8	31.7	24.6	35.1	26	-	32	12.6	16.9
31	GK 3153	2.4	-	10.1	13.2	3.4	-	11.7	27.4	27.7	2.3	4	32.4	34.2	3.2	33.2	15.5	-	15.9	-	29.8	14.8	8.9
32	GMH 909	-	-	7.2	12.7	-	20.9	1.6	21.8	9.9	-	4.6	7.1	9.4	-	-	0.6	-	-	0.4	15.7	8.1	-
33	IM 8119	-	-	25.9	18.1	5.4	31.6	-	55.8	19.3	53.2	34.6	15	34	36.7	24.9	28	26.4	27.6	10.6	33.3	22.1	21.7
34	JH 409	-	-	-	-	-	-	3.5	-	0.7	-	-	-	-	-	16.7	-	-	-	-	-	-	-
35	DKC 9150	-	-	7.6	18.3	-	-	16.4	5.7	8.9	15.5	6.3	-	-	22.5	3.7	7.1	33.1	5.5	-	7	-	2.8
36	VEH 14-2	3.3	-	-	14.1	-	-	16.2	15.5	-	-	-	-	24.3	-	-	-	7.2	-	-	-	-	-
37	VEH 14-1	-	-	-	-	-	13.6	-	-	-	-	-	-	33.4	-	-	-	1.7	-	6.4	-	-	-
	CHECKS																						
38	Seedtech 2324-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	Bio9681-C	-	-	-	13.9	-	7.1	8.1	-	-	10.2	-	-	3.4	-	-	-	-	-	-	-	-	-
40	Buland-C	0.7	-	-	-	-	-	4.8	2.2	15.4	-	-	-	15.2	-	3.2	-	15	-	-	-	-	-

TABLE No. 1 (Cont..)

BR12

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Bio9681																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
		KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	KARI	KOLH	MAND	VAGA	MEAN	BANS	GODH	MEAN	MEAN
1	IP 8510	-	10.3	72.5	24.3	22	10.9	1.9	54.1	-	20.5	16.4	75.3	36.5	48.6	84.1	17.8	38	49	57.4	59.8	58.9	40.2
2	CCH 4039	-	8.6	70.5	-	9.9	-	-	30.6	-	-	-	48.9	0.3	39.1	19.4	30.6	-	22.2	86.3	4.2	35.2	19.4
3	SYN427210	-	11.1	87	2.8	18.1	23.7	9.6	-	-	22.1	6.0	50.6	36.2	65.1	20.4	18	76.4	42.5	114.4	25.9	59.2	33.6
4	DMRH 1423	-	-	34.1	-	1.1	-	-	-	-	-	-	46.1	1.8	9	12	14.4	-	12.6	83.9	19.6	43.8	10.8
5	PM14202L	-	7.1	68.5	19.5	21	6.8	-	45.1	-	17.4	12.7	98.6	32.4	71.9	61.8	-	78.9	51.1	76.7	86.7	82.9	41.8
6	Rasi 394	8.1	0	68	-	13.5	15.6	6.6	36.5	-	33.3	22.1	124.1	36.1	71.1	15.4	34.8	66.7	56.5	81.1	81.3	81.2	43.9
7	SYN426702	3.3	0.6	57.4	3.9	13.2	8.4	19.4	37.1	-	25.6	23.7	55.8	11	39.9	11.5	43.1	67.7	35.2	81.8	29.7	49.3	34.4
8	PM14206L	8.5	7.8	57.9	8.5	17.7	-	-	16.5	-	19.2	-	94.3	2	77.8	36.2	11.5	-	35.3	87.8	67.5	75.1	29.7
9	HKH 424	11.3	12.9	50.2	-	8.5	18.3	-	-	-	-	-	-	-	41.3	20.9	-	-	6.7	73.9	13.1	36	12.2
10	JKMH 4023	11.7	9.3	49.9	-	14.4	-	1.6	1.8	-	-	-	13.6	10.7	33.7	4.3	33.3	50.5	22.4	96.8	29.9	55.1	21.4
11	SMH 3903	4.8	3.2	69.3	-	13.4	47.5	-	15.4	-	15.3	9.2	18.2	28.8	49.7	24.8	13.7	-	22.6	90.9	17	44.9	25.5
12	JH 295	-	1	48.8	-	5.9	5.7	0.2	4.5	-	-	-	-	10.5	60.9	2	-	-	2.9	83.1	-	27.8	11
13	PM14204L	22.8	13	58.3	4.8	21.2	-	9.9	32.1	-	22.9	4.4	71	9.9	25.3	56.6	-	41.5	29.5	85.4	17.7	43.2	28.4
14	PM14208L	4.3	-	84.1	18.4	21.4	33	-	31.2	-	14	12.4	61.1	26.3	68.8	37.4	-	44.5	38	101.3	73.1	83.7	37.9
15	KH 2847	-	4.5	58.5	-	11.5	-	-	29.1	-	16.4	-	71.7	-	42	27.3	9.8	54.3	30.7	78.3	23.9	44.4	23.4
16	HT 142107	8.8	4.2	68.8	5.6	18.1	20.4	15.4	30.1	-	31.4	20.1	21.2	23.8	-	18	33.8	61.2	22.4	89.8	12.4	41.6	30.1
17	SHIATS MS-3	0.3	-	33.4	-	-	-	-	15.9	-	-	-	2.9	-	5.7	-	1.6	24.2	-	86	-	22.7	-
18	CP 444	3	5.2	66.3	3.7	15.8	9.7	8.4	44.5	-	32.8	22.5	130.1	20.8	74.4	58.3	3.4	35.9	51.9	118.8	43.4	71.8	42.4
19	Genesis MH-102	5.4	7.8	57	4.1	15.3	15.9	2.4	37.4	-	0.6	2.6	54.5	3.4	61.1	33.1	7.1	-	24.1	88.5	18.1	44.7	24.4
20	GMH 275	-	-	48.6	-	5.5	-	-	10.6	-	-	-	56.2	5.5	17.4	8.1	7.6	48.9	21.6	88.7	23	47.8	16.3
21	PM14201L	7	4.4	58.9	9.5	17.1	-	4.3	68	-	22.3	13.5	105.9	13.2	41.1	44.5	-	82.5	42	51.4	13.6	27.8	32.3
22	CCH 1040	5.9	0.2	42.1	-	6.4	-	-	28.9	-	-	-	33.8	5.8	-	22.5	2	41.1	13.4	71.8	38.1	50.8	13.5
23	KH 2977	22.1	6.2	71.5	9.8	23.6	4	-	60.2	-	12.5	11.1	38.9	35.5	39.5	18.1	13.5	52.8	32.4	76.9	64.1	68.9	35
24	PM14203L	7.5	0.1	82.3	12.2	21.6	-	16.4	62	-	13	5.0	93.4	30.6	88.3	52.6	-	35.7	48.5	88.2	42.4	59.7	36.4
25	PM14205L	-	8.4	76.3	22.8	22.7	3.9	-	-	-	29.3	1.1	36.2	-	42.6	23.6	30.1	-	19.5	65.5	55.6	59.3	26.5
26	JH 357	-	3.7	41.1	-	2.8	-	1.9	40.3	-	-	0.8	-	8.9	43.5	22.1	-	49.7	16.5	79.2	10.3	36.3	16.5
27	KMH 3812	-	0.3	20.9	-	1.8	11.8	10.5	-	-	4.1	-	51.9	16.9	10	36	13.3	-	19.9	72.3	35.6	49.4	16
28	NMH 1290	2.4	-	70.8	14.6	16.3	3.9	-	14.4	-	16.9	2.9	49.8	20.6	47	19.3	33.8	60.6	36.4	94.6	39	59.9	30.2
29	GK 3124	12.1	11.4	68.6	-	18.1	26.3	8.7	38.4	-	11.1	17.3	99.1	44	18.6	-	12.1	49.3	36.9	85.2	22	45.8	34.1
30	PM14207L	7.3	14.5	72.1	4.2	20.2	11	9.1	37.8	-	-	9.3	65.5	34.1	65.4	43.2	50.8	74.2	53.2	75.2	54.9	62.6	39
31	GK 3153	14.6	0.1	68.8	-	16.4	-	3.3	36.2	-	-	-	93.8	29.8	44.8	44.9	39.9	-	41	87.7	52.4	65.7	29.5
32	GMH 909	0.9	-	64.4	-	4.4	12.9	-	30.2	-	-	-	56.7	5.8	38.9	-	21.8	12	20.8	89.6	35.8	56.1	18.5
33	IM 8119	-	3.4	93.1	3.7	18.6	22.9	-	66.6	-	40.6	22.1	68.3	29.6	91.8	35.8	55	63	55.2	108.8	56.5	76.2	44.7
34	JH 409	-	-	31.2	-	-	-	-	6.7	-	-	-	40.6	-	15	27	2.8	-	10.2	70	-	23.2	5.3
35	DKC 9150	-	6.5	65.1	3.9	12.5	-	7.7	13.1	-	6	-	25.8	-	71.9	12.9	29.6	71.7	28.3	59.3	25.6	38.3	22.2
36	VEH 14-2	15.5	9.6	26.1	0.2	11	-	7.4	23.5	-	-	-	30.2	20.2	36.1	1.5	0.8	38.3	20.5	79.1	13.9	38.4	16.1
37	VEH 14-1	-	-	0.3	-	-	6.1	-	-	-	-	-	26.1	29	-	2.8	20.2	31.2	17.2	101	3.6	40.3	10.1
	CHECKS											-											
38	Seedtech 2324-C	11.9	16.4	53.3	-	12.6	-	-	6.9	-	-	-	46.3	-	40.3	8.8	21.1	29	21.6	88.8	17.4	44.3	18.9
39	Bio9681-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	Buland-C	12.7	14.2	37.4	-	5.5	-	-	9.3	-	-	-	6.7	11.4	12.2	12.2	-	48.3	6.4	79.3	12.2	37.5	8.6

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Buland																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
		KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	KARI	KOLH	MAND	VAGA	MEAN	BANS	GODH	MEAN	MEAN
1	IP 8510	-	-	25.6	62.3	15.7	92.9	5.2	41	16.8	55.7	40.1	64.3	22.5	32.5	64	97.6	-	40	-	42.5	15.6	29.1
2	CCH 4039	-	-	24.1	22.5	4.2	70.6	-	19.5	4.3	19.5	17.5	39.6	-	24	6.4	119	-	14.8	3.9	-	-	9.9
3	SYN427210	-	-	36.1	34.2	12	115.2	13	-	-	57.7	27.7	41.2	22.3	47.2	7.3	97.9	18.9	33.9	19.6	12.2	15.8	23
4	DMRH 1423	-	-	-	25.8	-	21	1.6	-	-	14.7	3.9	36.9	-	-	-	91.9	-	5.8	2.6	6.7	4.6	2
5	PM14202L	-	-	22.6	56	14.7	85.7	-	32.8	25.9	51.7	35.7	86.1	18.8	53.2	44.2	38.5	20.7	41.9	-	66.5	33.1	30.5
6	Rasi 394	-	-	22.3	25.4	7.7	101.1	10	24.9	38.2	72.3	47	110.1	22.1	52.6	2.8	126.2	12.4	47.1	1	61.6	31.8	32.5
7	SYN426702	-	-	14.6	35.7	7.3	88.5	23.2	25.5	56.1	62.3	49	46.1	-	24.7	-	140.1	13	27	1.4	15.6	8.6	23.7
8	PM14206L	-	-	14.9	41.6	11.6	-	-	6.6	27.9	54	15.7	82.2	-	58.5	21.4	87.1	-	27.1	4.8	49.3	27.4	19.4
9	HKH 424	-	-	9.3	5	2.9	105.8	-	-	-	9.9	9.7	-	-	26	7.7	46	-	0.3	-	0.8	-	3.3
10	JKMH 4023	-	-	9.1	30.5	8.5	59.6	4.8	-	8.4	8.5	11.4	6.5	-	19.2	-	123.7	1.4	15	9.8	15.8	12.9	11.7
11	SMH 3903	-	-	23.2	24.3	7.5	156.6	-	5.6	-	49	31.5	10.9	15.6	33.5	11.2	90.8	-	15.2	6.5	4.3	5.4	15.5
12	JH 295	-	-	8.4	18.3	0.4	83.8	3.4	-	-	21.1	15.9	-	-	43.4	-	15.3	-	-	2.1	-	-	2.1
13	PM14204L	9	-	15.3	36.8	14.9	38.7	13.3	20.9	-	58.8	25.7	60.3	-	11.7	39.6	48.1	-	21.6	3.4	4.9	4.2	18.2
14	PM14208L	-	-	34	54.6	15.1	131.4	1.2	20.1	4	47.3	35.4	51	13.4	50.5	22.4	65.3	-	29.7	12.3	54.3	33.6	27
15	KH 2847	-	-	15.4	28.6	5.7	18.9	-	18.2	-	50.5	17.1	61	-	26.6	13.4	84.3	4.1	22.8	-	10.4	5	13.6
16	HT 142107	-	-	22.9	37.9	12	109.4	19.1	19.1	21.2	69.8	44.6	13.6	11.1	-	5.1	124.5	8.7	15	5.9	0.2	3	19.8
17	SHIATS MS-3	-	-	-	12.7	-	-	-	6.1	-	1.6	-	-	-	-	-	70.5	-	-	3.8	-	-	-
18	CP 444	-	-	21.1	35.5	9.8	90.7	11.8	32.2	38.7	71.7	47.5	115.7	8.4	55.5	41.1	73.5	-	42.7	22.1	27.8	25	31.1
19	Genesis MH-102	-	-	14.3	36	9.4	101.5	5.6	25.7	-	30	23.6	44.8	-	43.6	18.6	79.7	-	16.6	5.1	5.3	5.2	14.5
20	GMH 275	-	-	8.1	19.6	0.1	34.3	1.2	1.2	-	17.2	7	46.5	-	4.7	-	80.5	0.4	14.2	5.3	9.6	7.5	7
21	PM14201L	-	-	15.6	43	11.1	44.3	7.6	53.8	13.5	58	36.7	93	1.6	25.8	28.7	53.5	23	33.4	-	1.3	-	21.8
22	CCH 1040	-	-	3.4	18.8	0.9	20.9	-	18	-	6.8	3.6	25.4	-	-	9.2	71.2	-	6.6	-	23.1	9.7	4.4
23	KH 2977	8.3	-	24.8	43.4	17.3	80.8	0.2	46.6	4.7	45.3	33.8	30.3	21.6	24.4	5.3	90.4	3.1	24.4	-	46.3	22.9	24.2
24	PM14203L	-	-	32.7	46.5	15.3	7.4	20.1	48.2	-	46	26.5	81.3	17.2	67.8	36	62.6	-	39.5	5	26.9	16.2	25.5
25	PM14205L	-	-	28.4	60.4	16.3	80.8	-	-	1.6	67.1	21.8	27.7	-	27.1	10.1	118.2	-	12.3	-	38.8	15.9	16.4
26	JH 357	-	-	2.7	10.4	-	53.5	5.1	28.4	-	27.9	21.3	-	-	27.9	8.8	66.8	0.9	9.5	-	-	-	7.2
27	KMH 3812	-	-	-	29.4	-	94.4	14	-	-	34.5	11.7	42.4	4.9	-	21.1	90.1	-	12.7	-	20.9	8.7	6.8
28	NMH 1290	-	-	24.4	49.6	10.3	80.7	3.1	4.7	-	51	23.9	40.4	8.2	31	6.3	124.5	8.3	28.1	8.5	23.9	16.3	19.9
29	GK 3124	-	-	22.7	28.7	12	119.6	12.1	26.6	28.2	43.6	41.2	86.6	29.2	5.7	-	88.1	0.7	28.6	3.3	8.7	6.1	23.5
30	PM14207L	-	0.3	25.3	36.1	14	93.1	12.6	26.1	23.7	23.2	31.6	55.2	20.3	47.4	27.6	153	17.5	43.9	-	38.1	18.3	28
31	GK 3153	1.7	-	22.9	29.8	10.4	-	6.6	24.6	10.6	21.3	13.6	81.6	16.5	29.1	29.1	134.7	-	32.5	4.7	35.8	20.5	19.2
32	GMH 909	-	-	19.7	29.2	-	96.3	-	19.2	-	-	14.3	46.9	-	23.8	-	104.3	-	13.5	5.8	21.1	13.5	9.1
33	IM 8119	-	-	40.6	35.5	12.5	113.8	-	52.4	3.4	81.7	47	57.7	16.3	71	21	160	9.9	45.8	16.4	39.6	28.2	33.2
34	JH 409	-	-	-	0.2	-	30.1	-	-	-	-	0.8	31.8	-	2.5	13.1	72.5	-	3.6	-	-	-	-
35	DKC 9150	-	-	20.2	35.7	6.7	37.3	11.1	3.5	-	37	16.1	18	-	53.2	0.6	117.5	15.8	20.6	-	12	0.6	12.4
36	VEH 14-2	2.5	-	-	30.9	5.2	46.5	10.8	13	-	7.1	4.4	22.1	7.8	21.3	-	69.1	-	13.2	-	1.5	0.7	6.8
37	VEH 14-1	-	-	-	14.3	-	84.5	-	-	-	16.3	4.6	18.2	15.8	-	-	101.6	-	10.1	12.1	-	2.1	1.3
	CHECKS																						
38	Seedtech 2324-C	-	1.9	11.6	14.7	6.8	62.4	-	-	-	18.6	9.2	37.2	-	25.1	-	103.1	-	14.3	5.3	4.7	5	9.4
39	Bio9681-C	-	-	-	30.6	-	73.9	3.2	-	-	29.2	20.4	-	-	-	-	67.8	-	-	-	-	-	-
40	Buland-C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table No. 1 (Continued)

		MOISTURE % AT HARVEST																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	IP 8510	13.7	28.7	24.8	20.6	21.9	25.7	19.5	19.7	22.5	27.3	22.9	22.0	23.0	11.9	12.9	16.5	17.7	17.3	17.4	15.2	16.3	19.9
2	CCH 4039	13.3	26.1	26.7	21.8	22.0	25.1	19.0	19.1	23.1	24.1	22.1	15.2	23.2	11.5	10.5	16.2	17.3	15.6	18.7	13.7	16.2	19.1
3	SYN427210	14.3	25.7	25.9	21.3	21.8	26.8	19.1	21.4	22.9	29.6	23.9	13.0	24.0	11.9	12.1	16.9	17.9	15.9	18.6	14.5	16.5	19.7
4	DMRH 1423	13.7	23.0	24.6	19.5	20.2	23.8	19.5	17.8	22.7	24.4	21.6	23.5	24.3	12.6	12.5	16.9	18.5	18.0	17.9	14.2	16.0	19.3
5	PM14202L	14.3	28.3	26.4	23.2	23.0	26.0	20.0	22.1	22.4	26.8	23.4	17.1	23.7	9.7	12.5	18.6	17.0	16.4	17.5	12.9	15.2	19.9
6	Rasi 394	14.7	27.4	28.2	23.2	23.4	27.1	19.2	20.2	21.5	26.3	22.8	18.0	23.7	11.8	10.4	18.1	17.4	16.6	18.6	12.3	15.5	19.9
7	SYN426702	14.7	27.6	30.1	25.3	24.4	25.9	18.4	16.1	23.3	29.9	22.7	21.6	22.8	14.1	10.4	16.8	18.2	17.3	18.4	15.9	17.2	20.5
8	PM14206L	16.0	25.8	22.2	21.0	21.3	24.4	19.1	17.6	23.3	25.1	21.9	10.2	23.5	10.3	12.5	16.6	17.8	15.1	18.2	15.5	16.8	18.8
9	HKH 424	14.7	24.9	26.0	20.3	21.4	25.6	18.3	20.0	22.4	25.5	22.3	18.2	22.2	12.3	10.3	18.4	17.8	16.5	18.2	13.5	15.8	19.3
10	JKMH 4023	16.0	30.1	30.2	22.4	24.6	23.9	18.2	18.6	22.0	24.5	21.4	13.6	22.6	8.2	10.5	16.0	18.3	14.9	18.7	15.0	16.8	19.3
11	SMH 3903	15.3	28.9	26.4	20.7	22.8	27.2	18.5	16.2	22.3	27.6	22.4	16.0	22.2	12.9	12.5	16.8	17.9	16.4	17.5	15.3	16.4	19.7
12	JH 295	16.0	24.1	28.0	21.7	22.4	25.1	19.2	20.3	22.1	28.7	23.1	17.2	24.3	13.5	12.3	17.3	17.8	17.0	18.2	12.6	15.4	19.9
13	PM14204L	15.0	23.8	27.5	20.5	21.7	23.2	19.1	18.2	22.1	28.2	22.2	20.7	22.6	8.8	12.4	16.0	18.4	16.5	17.4	14.6	16.0	19.3
14	PM14208L	13.0	29.5	26.9	21.4	22.7	27.2	18.6	20.7	23.1	27.1	23.3	16.1	22.7	13.6	12.5	16.1	17.9	16.5	18.3	15.2	16.7	20.0
15	KH 2847	14.7	26.3	26.5	21.2	22.2	24.4	18.9	20.5	23.2	25.0	22.4	18.3	23.4	11.9	12.5	17.3	18.4	16.9	18.2	14.5	16.3	19.7
16	HT 142107	16.0	27.3	29.0	22.9	23.8	27.0	18.7	23.1	23.0	30.1	24.4	22.0	24.3	13.6	10.3	17.5	17.7	17.6	18.2	12.2	15.2	20.7
17	SHIATS MS-3	16.3	30.0	28.9	22.0	24.3	24.3	19.1	18.3	22.9	29.6	22.8	17.3	24.6	12.5	12.8	17.0	17.4	16.9	18.1	14.5	16.3	20.3
18	CP 444	15.7	27.4	27.6	22.2	23.2	28.0	19.0	24.9	22.7	30.1	24.9	12.5	25.2	14.8	12.4	18.4	17.1	16.7	17.5	15.2	16.3	20.6
19	Genesis MH-102	16.0	29.4	29.9	24.0	24.8	26.9	19.2	19.4	22.0	24.9	22.5	18.4	23.5	11.2	12.5	18.2	18.3	17.0	18.3	13.6	15.9	20.3
20	GMH 275	17.0	27.8	29.2	22.9	24.2	23.0	19.5	17.6	22.3	30.9	22.6	19.4	21.9	14.0	10.3	17.7	17.3	16.7	18.4	13.3	15.8	20.1
21	PM14201L	17.0	30.5	26.7	23.6	24.4	24.1	18.9	18.1	21.8	29.1	22.4	16.7	22.1	14.2	12.4	16.6	18.1	16.7	18.5	13.5	16.0	20.1
22	CCH 1040	16.0	26.9	30.0	22.7	23.9	23.8	19.2	20.3	23.7	30.4	23.5	22.3	25.6	13.0	11.9	17.2	17.9	18.0	17.8	15.6	16.7	20.8
23	KH 2977	14.0	29.6	28.7	23.1	23.8	25.1	19.4	10.6	22.1	29.3	21.3	17.9	24.9	10.4	12.2	17.0	18.7	16.8	18.0	13.7	15.8	19.7
24	PM14203L	14.0	27.1	27.1	19.9	22.0	23.5	19.0	20.5	23.2	28.4	22.9	20.5	23.3	12.6	12.5	17.1	18.3	17.4	17.8	14.6	16.2	19.9
25	PM14205L	17.3	25.3	26.4	22.1	22.8	25.8	19.3	17.4	22.9	24.9	22.0	16.7	22.6	12.5	10.4	17.2	17.8	16.2	17.7	13.5	15.6	19.4
26	JH 357	16.0	28.4	22.5	21.2	22.0	24.9	19.2	20.0	22.5	22.7	21.8	15.5	20.2	11.4	12.5	16.3	19.0	15.8	18.0	13.1	15.6	19.0
27	KMH 3812	13.0	26.6	25.5	20.6	21.4	26.0	19.4	16.9	22.2	20.6	21.0	13.5	21.6	7.2	12.3	15.6	17.0	14.5	17.7	14.1	15.9	18.2
28	NMH 1290	13.0	26.6	25.3	21.6	21.6	25.8	18.2	19.5	20.7	25.5	21.9	11.3	23.7	10.7	12.1	16.9	17.2	15.3	18.4	14.0	16.2	18.8

Table No. 1 (Continued)

		MOISTURE % AT HARVEST																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
29	GK 3124	15.3	26.7	29.0	21.5	23.1	26.1	19.1	18.8	23.3	28.3	23.1	18.4	23.5	11.1	12.4	18.0	18.0	16.9	17.9	15.7	16.8	20.2
30	PM14207L	16.7	25.7	26.8	23.7	23.2	27.0	18.8	18.7	22.4	29.2	23.2	17.6	22.0	12.9	10.6	17.6	18.8	16.6	18.5	13.4	16.0	20.0
31	GK 3153	19.0	26.2	28.0	24.0	24.3	23.0	18.7	18.3	21.9	29.3	22.2	19.1	22.3	10.2	10.5	17.0	18.2	16.2	18.7	12.6	15.7	19.8
32	GMH 909	15.0	31.3	30.2	23.7	25.0	25.5	19.3	18.8	22.0	29.5	23.0	15.8	23.0	14.2	12.1	16.9	18.9	16.8	18.1	18.2	18.1	20.7
33	IM 8119	16.0	30.8	25.3	21.7	23.4	26.3	18.6	19.5	22.5	29.7	23.3	17.6	24.0	9.4	12.5	17.7	18.1	16.6	18.4	12.4	15.4	20.0
34	JH 409	14.0	24.0	26.3	22.1	21.6	23.2	18.8	22.1	21.4	26.6	22.4	17.8	25.9	11.5	12.7	16.5	17.0	16.9	17.6	15.7	16.7	19.6
35	DKC 9150	14.7	26.8	25.7	22.7	22.4	24.5	19.1	17.9	22.9	24.2	21.7	18.2	25.8	12.3	12.4	17.1	17.5	17.2	18.1	12.7	15.4	19.5
36	VEH 14-2	15.0	29.8	30.8	22.2	24.4	24.1	18.0	21.1	22.0	28.3	22.7	19.3	22.6	12.9	12.3	17.9	17.0	17.0	18.2	14.4	16.3	20.3
37	VEH 14-1	16.7	25.3	30.9	23.0	24.0	24.3	18.8	20.0	22.7	26.2	22.4	18.7	21.9	13.4	10.3	17.1	17.1	16.4	18.6	13.5	16.0	19.9
	CHECKS																						
38	Seedtech 2324-C	13.0	25.2	29.1	24.8	23.0	26.3	19.9	19.8	22.5	25.9	22.9	14.0	23.6	11.6	12.5	17.4	18.4	16.2	17.9	15.6	16.7	19.8
39	Bio9681-C	17.0	26.6	30.0	23.0	24.1	25.0	18.7	19.1	-	26.2	22.2	16.7	23.9	11.1	10.4	17.8	17.7	16.2	17.5	15.4	16.5	19.7
40	Buland-C	18.3	25.8	24.3	22.4	22.7	23.6	18.3	18.0	22.6	21.9	20.9	17.8	21.2	10.8	12.8	15.8	17.7	16.0	18.4	14.1	16.2	19.0
	Loc. Mean	**15.3**	**27.2**	**27.3**	**22.2**	**23.0**	**25.2**	**18.9**	**19.2**	**22.5**	**27.0**	**22.6**	**17.4**	**23.3**	**11.9**	**11.8**	**17.1**	**17.8**	**16.5**	**18.1**	**14.2**	**16.1**	**19.8**
	C.D. (5%)	1.87	0.30	1.86	1.34	2.18	0.79	0.54	2.65	1.85	0.75	2.02	4.72	1.01	2.19	1.51	0.71	0.90	1.75	0.71	0.53	2.06	1.04
	C.V. (%)	7.54	0.67	4.19	3.71	6.78	1.93	1.75	8.50	4.01	1.71	7.16	16.71	2.67	11.36	7.86	2.57	3.10	9.31	2.42	2.29	6.30	7.83
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.89	0.00

Table No. 1 (Continued)

		GRAIN SHELLING %																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	IP 8510	70.0	82.8	84.4	85.8	80.7	76.8	79.1	82.5	84.2	75.5	79.6	86.1	79.0	80.1	89.9	80.5	76.5	82.0	77.5	86.3	81.9	81.0
2	CCH 4039	72.0	82.7	87.2	83.0	81.2	75.4	80.9	79.0	86.5	80.5	80.4	84.6	77.9	79.4	85.8	80.6	74.1	80.4	79.9	80.7	80.3	80.6
3	SYN427210	71.0	81.9	88.7	85.3	81.7	80.0	80.1	77.5	88.0	79.5	81.0	85.6	81.6	79.9	83.8	78.4	78.0	81.2	79.8	88.3	84.0	81.6
4	DMRH 1423	72.0	80.3	79.1	82				78.5	81.5	73.5	77.3	77.5	76.3	69.5	80.9	79.9	74.1	76.3	79.0	77.5	78.2	77.4
5	PM14202L	74.0	80.1	90.4	82.6	81.8	78.5	80.3	82.5	84.0	75.0	80.0	79.5	76.7	73.1	85.1	79.1	77.6	78.5	80.8	81.9	81.3	80.1
6	Rasi 394	75.0	82.7	90.1	82.9	82.7	72.2	80.7	73.5	85.8	75.0	77.4	83.0	76.7	72.8	82.4	80.6	77.6	78.8	80.3	82.6	81.4	79.6
7	SYN426702	73.0	83.8	87.6	85.9	82.6	79.9	82.6	80.0	86.8	79.5	81.8	85.0	80.4	81.4	89.5	77.7	77.5	81.9	80.0	86.6	83.3	82.2
8	PM14206L	71.3	83.3	87.8	84.6	81.8	69.6	79.4	79.5	84.9	80.5	78.8	85.9	79.4	83.1	84.3	77.2	73.2	80.5	80.2	86.9	83.5	80.6
9	HKH 424	72.0	82.6	91.1	85.1	82.7	77.6	80.8	84.5	80.5	73.0	79.3	80.4	79.1	77.9	80.3	80.1	74.5	78.7	79.3	89.5	84.4	80.5
10	JKMH 4023	71.0	83.3	88.5	85.0	81.9	77.0	82.9	77.0	84.6	81.0	80.5	83.0	80.8	80.3	80.2	81.4	78.7	80.7	81.4	88.7	85.1	81.5
11	SMH 3903	72.0	80.6	91.3	83.6	81.9	80.2	78.6	81.0	85.6	76.5	80.4	85.1	78.9	78.6	84.5	80.3	73.8	80.2	80.8	86.8	83.8	81.1
12	JH 295	74.0	81.7	89.9	83.3	82.2	76.4	82.2	80.0	84.8	75.0	79.7	82.4	77.1	78.0	82.6	79.0	73.8	78.8	79.8	83.1	81.4	80.2
13	PM14204L	75.0	82.8	86.6	83.8	82.0	76.0	78.7	76.5	81.1	76.5	77.7	81.8	78.0	77.5	84.4	78.9	75.5	79.3	78.8	82.6	80.7	79.7
14	PM14208L	73.0	80.2	91.3	85.2	82.4	77.1	80.5	75.0	83.9	74.5	78.2	83.4	76.9	77.5	83.5	79.2	76.6	79.5	81.1	85.6	83.4	80.3
15	KH 2847	72.0	78.7	86.5	81.6	79.7	73.8	79.5	83.0	82.9	75.0	78.8	84.3	80.1	79.2	83.1	80.4	77.2	80.7	79.1	84.1	81.6	80.0
16	HT 142107	71.0	83.1	93.8	89.3	84.3	78.1	82.3	83.0	87.9	82.0	82.6	85.1	82.7	78.4	85.5	81.8	76.9	81.7	78.9	84.9	81.9	82.6
17	SHIATS MS-3	70.0	81.5	88.7	82.2	80.6	69.4	80.3	82.5	80.0	74.5	77.3	75.9	75.7	79.1	81.5	79.9	75.2	77.9	78.8	85.2	82.0	78.8
18	CP 444	72.0	80.4	90.0	88.5	82.7	80.3	81.8	83.0	89.4	78.5	82.6	86.5	81.9	79.7	89.3	80.6	75.7	82.3	80.3	86.7	83.5	82.6
19	Genesis MH-102	74.0	84.3	86.4	86.1	82.7	74.4	82.7	84.0	82.5	71.0	78.9	83.4	78.6	78.4	86.1	80.8	73.3	80.1	80.0	85.4	82.7	80.7
20	GMH 275	70.0	82.7	86.9	87.1	81.7	78.2	80.1	73.5	84.4	79.0	79.0	86.8	80.7	81.3	85.5	80.6	76.3	81.9	81.2	87.5	84.4	81.3
21	PM14201L	75.0	80.6	86.6	84.0	81.6	75.3	82.1	90.0	84.6	77.5	81.9	83.9	77.7	78.9	82.4	81.7	78.6	80.5	78.5	82.5	80.5	81.2
22	CCH 1040	76.0	78.2	90.7	82.1	81.7	76.9	82.6	83.5	81.8	73.0	79.6	83.8	78.8	76.6	78.5	79.9	76.6	79.0	78.9	80.8	79.8	79.9
23	KH 2977	78.0	80.0	88.5	83.5	82.5	74.7	81.1	85.0	87.4	78.5	81.3	84.1	79.7	79.5	81.6	80.8	76.3	80.3	79.2	74.2	76.7	80.7
24	PM14203L	76.0	81.7	90.8	84.2	83.2	73.1	82.7	85.0	84.6	76.5	80.4	84.3	77.1	77.8	84.3	80.0	75.7	79.8	80.8	84.6	82.7	81.1
25	PM14205L	71.0	82.5	92.5	84.9	82.7	77.0	80.3	77.0	86.4	81.0	80.3	86.7	78.5	80.5	81.8	80.9	75.3	80.6	78.7	88.9	83.8	81.4
26	JH 357	74.0	80.8	87.9	81.0	80.9	77.0	79.3	86.0	81.7	72.5	79.3	82.1	75.9	77.2	83.2	81.8	76.1	79.4	78.9	85.8	82.3	80.1
27	KMH 3812	75.0	79.9	81.0	84.5	80.1	79.0	82.7	77.5	84.7	80.0	80.8	83.1	81.2	79.4	82.3	80.8	73.9	80.1	78.6	85.1	81.8	80.5
28	NMH 1290	73.0	81.6	88.5	85.6	82.2	77.8	81.6	80.5	84.5	80.5	81.0	84.8	82.7	80.9	85.4	81.7	77.6	82.2	80.5	85.4	82.9	81.9

Table No. 1 (Continued)

Table No. 1 (Continued)

		GRAIN SHELLING %																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
29	GK 3124	77.0	80.9	91.4	86.1	83.8	79.8	79.9	77.0	85.9	81.5	80.8	87.2	81.6	81.3	86.5	71.5	76.1	80.7	79.1	92.0	85.6	82.0
30	PM14207L	72.0	83.2	86.5	85.5	81.8	77.9	80.0	80.0	86.4	67.5	78.3	84.3	80.7	78.9	86.4	82.0	77.1	81.6	78.9	81.2	80.1	80.5
31	GK 3153	74.0	82.1	89.8	86.3	83.1	71.5	80.6	81.5	87.8	79.0	80.1	86.0	80.2	81.4	84.5	81.3	73.5	81.2	81.0	85.3	83.2	81.5
32	GMH 909	70.0	81.5	93.3	86.1	82.7	79.9	78.9	82.5	85.9	77.5	80.9	85.2	80.4	78.8	73.9	81.3	75.0	79.1	79.1	84.3	81.7	80.8
33	IM 8119	78.0	80.8	87.7	82.5	82.3	81.5	81.2	86.0	85.0	76.0	81.9	86.1	77.6	77.9	87.2	82.1	77.9	81.5	82.1	84.7	83.4	82.0
34	JH 409	75.0	80.6	90.1	80.0	81.4	75.4	82.5	81.0	83.9	79.5	80.4	84.8	75.7	76.8	85.3	80.4	75.0	79.7	78.0	83.6	80.8	80.4
35	DKC 9150	78.0	81.5	89.8	83.1	83.1	75.0	80.3	75.0	83.6	77.0	78.2	81.3	76.4	74.5	77.4	80.9	77.6	78.0	78.0	77.6	77.8	79.2
36	VEH 14-2	76.0	79.5	85.5	83.6	81.1	77.8	80.7	81.5	81.4	64.0	77.1	81.0	78.7	75.0	79.9	80.1	74.7	78.2	79.0	78.9	78.9	78.7
37	VEH 14-1	74.0	79.8	87.2	83.6	81.2	79.9	80.0	74.5	80.5	79.5	78.9	85.6	81.8	76.5	83.6	82.8	75.2	80.9	81.3	92.2	86.7	81.1
	CHECKS																						
38	Seedtech 2324-C	79.0	82.4	91.7	82.5	83.9	78.6	80.8	75.0	84.7	77.5	79.3	84.4	80.1	76.9	84.2	80.0	76.1	80.3	80.3	83.4	81.9	81.0
39	Bio9681-C	73.7	83.4	83.2	85.7	81.5	76.9	81.5	77.5	-	77.0	78.2	82.3	79.0	82.8	81.5	80.5	73.6	79.9	74.3	70.3	72.3	78.9
40	Buland-C	74.0	79.3	81.7	76.3	77.8	71.9	80.4	80.5	83.2	71.5	77.5	80.1	77.3	75.4	85.1	81.3	74.7	78.9	78.4	89.9	84.1	78.9
	Loc. Mean	**73.6**	**81.5**	**88.3**	**84.1**	**81.9**	**76.5**	**80.7**	**80.3**	**84.4**	**76.6**	**79.7**	**83.6**	**79.0**	**78.3**	**83.6**	**80.2**	**75.8**	**80.1**	**79.5**	**84.3**	**81.9**	**80.6**
	C.D. (5%)	0.56	0.49	0.00	1.83	3.34	1.39	0.65	4.48	2.52	0.98	3.67	1.77	1.05	1.81	1.73	1.12	1.87	2.44	1.65	6.79	5.57	1.71
	C.V. (%)	0.47	0.37	0.00	1.34	2.91	1.12	0.49	3.43	1.46	0.79	3.69	1.30	0.82	1.42	1.28	0.86	1.51	2.67	1.28	4.96	3.37	3.14
	F (Prob)	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00

Table No. 1 (Continued)

		STAND AT HARVEST ('000/ha)																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	IP 8510	78.5	58.9	84.7	64.4	71.6	64.6	64.6	72.0	67.0	82.6	70.2	70.1	66.7	58.3	50.0	59.5	56.9	60.3	56.9	79.9	68.4	66.8
2	CCH 4039	79.2	61.7	76.4	66.1	70.8	63.2	63.2	70.2	67.9	79.2	68.7	69.4	66.0	57.1	48.9	67.9	50.7	60.0	73.6	79.2	76.4	67.0
3	SYN427210	80.6	61.1	79.9	64.4	71.5	75.7	60.4	69.0	67.9	81.9	71.0	67.4	66.7	56.0	47.8	63.1	55.6	59.4	68.1	79.2	73.6	67.3
4	DMRH 1423	81.9	57.8	81.9	66.7	72.1	65.3	59.0	69.6	64.3	82.6	68.2	65.3	65.3	48.2	47.8	56.5	52.1	55.9	54.9	76.4	65.6	64.4
5	PM14202L	77.8	61.7	79.9	66.7	71.5	68.8	63.9	67.9	75.9	81.9	71.7	75.0	66.0	60.7	46.7	60.7	54.2	60.5	62.5	81.9	72.2	67.8
6	Rasi 394	76.4	58.3	78.5	66.1	69.8	68.8	61.8	70.2	75.0	82.6	71.7	76.4	66.7	58.9	50.0	63.1	56.9	62.0	69.4	81.9	75.7	68.3
7	SYN426702	73.6	58.3	77.1	66.7	68.9	74.3	61.1	72.0	83.9	82.6	74.8	70.1	66.7	57.1	47.8	63.1	51.4	59.4	63.2	77.1	70.1	67.4
8	PM14206L	78.5	59.4	74.3	64.4	69.2	58.3	61.1	70.8	75.9	81.3	69.5	78.5	66.0	63.1	48.9	64.9	57.6	63.2	66.0	81.3	73.6	67.7
9	HKH 424	77.1	60.0	81.9	66.7	71.4	61.1	61.1	72.0	71.4	78.5	68.8	70.8	64.6	60.1	52.2	61.9	52.8	60.4	75.7	77.1	76.4	67.4
10	JKMH 4023	73.6	57.8	80.6	65.0	69.2	72.2	58.3	72.0	80.4	79.2	72.4	68.8	65.3	59.5	51.7	62.5	55.6	60.5	62.5	75.0	68.8	67.0
11	SMH 3903	75.0	58.9	83.3	64.4	70.4	63.2	61.8	66.1	64.3	82.6	67.6	67.4	66.7	61.9	48.9	66.1	51.4	60.4	53.5	70.1	61.8	65.0
12	JH 295	78.5	58.3	84.0	66.1	71.7	64.6	59.0	72.6	73.2	79.9	69.9	65.3	66.0	64.9	50.0	61.9	56.3	60.7	72.9	68.1	70.5	67.1
13	PM14204L	76.4	55.0	79.9	66.7	69.5	55.6	64.6	69.6	76.8	81.3	69.6	75.0	66.0	51.8	50.6	61.9	51.4	59.4	64.6	77.1	70.8	66.1
14	PM14208L	78.5	57.8	84.0	66.7	71.7	72.9	63.2	72.0	71.4	77.1	71.3	75.0	64.6	51.8	51.7	61.3	59.0	60.6	77.8	75.7	76.7	68.3
15	KH 2847	77.1	56.7	79.2	66.1	69.8	63.9	63.2	71.4	75.0	82.6	71.2	68.1	65.3	54.2	53.3	62.5	56.9	60.0	54.2	75.0	64.6	66.2
16	HT 142107	77.8	57.2	79.9	65.6	70.1	67.4	64.6	71.4	78.6	82.6	72.9	72.9	66.7	56.0	48.3	58.9	56.9	60.0	70.1	67.4	68.8	67.2
17	SHIATS MS-3	75.7	61.7	84.0	66.7	72.0	68.1	59.0	72.0	50.0	77.1	65.2	61.1	66.7	49.4	46.1	63.1	45.8	55.4	64.6	74.3	69.4	63.8
18	CP 444	73.6	61.1	79.9	66.7	70.3	64.6	66.7	71.4	75.0	82.6	72.1	71.5	66.0	63.1	52.8	61.9	53.5	61.5	66.0	66.7	66.3	67.2
19	Genesis MH-102	72.9	59.4	79.9	66.1	69.6	67.4	61.8	68.5	73.2	77.8	69.7	72.2	65.3	57.7	47.8	62.5	52.1	59.6	66.0	73.6	69.8	66.1
20	GMH 275	74.3	62.8	81.3	66.1	71.1	63.9	59.0	70.2	71.4	77.8	68.5	60.4	65.3	58.9	45.6	62.5	56.9	58.3	69.4	76.4	72.9	66.0
21	PM14201L	75.7	57.8	75.7	65.0	68.5	66.7	61.1	72.6	71.4	81.3	70.6	80.6	66.0	61.9	50.6	62.5	54.9	62.7	50.7	72.9	61.8	66.3
22	CCH 1040	75.0	58.3	78.5	64.4	69.1	58.3	60.4	72.6	75.0	83.3	69.9	71.5	65.3	60.1	50.6	60.1	54.2	60.3	57.6	79.2	68.4	66.1
23	KH 2977	77.1	58.9	87.5	66.7	72.5	64.6	66.7	69.0	74.1	81.9	71.3	70.8	66.7	60.7	48.9	61.9	51.4	60.1	61.1	79.9	70.5	67.5
24	PM14203L	77.8	61.1	85.4	66.1	72.6	64.6	63.2	72.0	64.3	83.3	69.5	78.5	66.0	64.9	52.8	60.1	57.6	63.3	65.3	79.2	72.2	68.4
25	PM14205L	72.2	58.9	81.9	64.4	69.4	67.4	60.4	72.6	72.3	83.3	71.2	63.9	65.3	58.9	47.8	63.1	52.8	58.6	63.9	70.8	67.4	65.9
26	JH 357	75.7	56.7	78.5	66.7	69.4	61.1	62.5	72.0	60.7	81.3	67.5	70.1	66.0	63.1	47.8	58.3	49.3	59.1	70.1	72.9	71.5	65.5
27	KMH 3812	75.7	58.9	78.5	65.0	69.5	66.0	60.4	74.4	39.3	79.9	64.0	70.1	66.0	55.4	52.2	57.1	53.5	59.1	65.3	70.8	68.1	64.0
28	NMH 1290	77.1	59.4	84.0	66.1	71.7	70.1	62.5	69.6	71.4	81.9	71.1	70.8	66.0	51.8	50.6	64.3	58.3	60.3	64.6	79.9	72.2	67.6

Table No. 1 (Continued)

		STAND AT HARVEST ('000/ha)																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
29	GK 3124	75.7	58.3	82.6	65.0	70.4	68.8	62.5	63.7	70.5	79.9	69.1	77.1	66.7	56.0	43.3	56.5	53.5	58.8	56.3	74.3	65.3	65.3
30	PM14207L	74.3	60.6	80.6	66.1	70.4	63.9	67.4	72.6	74.1	81.9	72.0	71.5	66.0	58.9	47.8	60.7	52.8	59.6	68.1	77.1	72.6	67.3
31	GK 3153	75.7	59.4	70.8	66.1	68.0	68.1	60.4	73.8	72.3	79.9	70.9	69.4	65.3	56.5	52.8	64.9	49.3	59.7	69.4	81.9	75.7	66.8
32	GMH 909	75.0	58.3	84.0	65.0	70.6	65.3	61.1	73.2	71.4	73.6	68.9	75.0	65.3	57.1	48.9	67.3	52.8	61.1	76.4	77.1	76.7	67.5
33	IM 8119	73.6	58.9	70.8	66.1	67.4	68.1	63.9	70.2	77.7	83.3	72.6	75.0	66.0	55.4	51.7	63.7	54.9	61.1	58.3	77.1	67.7	66.7
34	JH 409	77.8	61.1	75.7	65.0	69.9	63.2	63.9	72.0	67.9	80.6	69.5	74.3	66.0	57.1	51.1	61.3	54.9	60.8	59.0	80.6	69.8	66.6
35	DKC 9150	77.8	58.9	84.7	66.1	71.9	66.7	60.4	73.2	72.3	79.9	70.5	70.1	66.7	50.0	47.8	59.5	54.2	58.0	61.8	81.3	71.5	66.5
36	VEH 14-2	75.0	58.9	63.9	63.3	65.3	67.4	59.0	72.0	53.6	76.4	65.7	56.9	66.0	54.8	46.7	63.7	53.5	56.9	65.3	66.0	65.6	62.5
37	VEH 14-1	77.8	60.0	46.5	65.0	62.3	71.5	60.4	72.6	42.0	78.5	65.0	67.4	64.6	52.4	51.7	62.5	53.5	58.7	60.4	75.7	68.1	62.5
	CHECKS																						
38	Seedtech 2324	75.0	57.2	72.9	65.0	67.5	60.4	61.8	70.8	51.8	75.7	64.1	67.4	66.0	53.6	50.6	66.1	52.8	59.4	62.5	68.8	65.6	63.4
39	Bio 9681	78.5	62.2	47.9	65.6	63.5	77.1	60.4	70.2	1.8	72.9	56.5	47.9	64.6	41.7	45.0	60.7	39.6	49.9	63.9	74.3	69.1	57.3
40	Buland	77.1	60.0	79.2	66.1	70.6	68.8	61.1	71.4	81.3	79.9	72.5	71.5	64.6	53.0	48.9	57.7	47.9	57.3	63.2	71.5	67.4	66.1
	Loc. Mean	**76.4**	**59.2**	**78.0**	**65.7**	**69.8**	**66.3**	**61.9**	**71.1**	**67.6**	**80.3**	**69.4**	**70.0**	**65.8**	**56.8**	**49.3**	**61.9**	**53.4**	**59.6**	**64.4**	**75.6**	**70.0**	**66.1**
	C.D. (5%)	4.39	2.65	12.13	3.22	6.29	7.18	5.22	5.93	11.16	5.00	8.75	12.44	1.54	5.49	6.58	5.18	8.87	3.82	16.31	5.25	11.10	3.39
	C.V. (%)	3.54	2.75	9.57	3.02	6.43	6.67	5.18	5.13	8.16	3.83	10.09	10.93	1.44	5.95	8.20	5.15	10.23	5.63	15.59	4.27	7.84	7.61
	F (Prob)	0.01	0.00	0.00	0.96	0.52	0.00	0.09	0.54	0.00	0.00	0.39	0.01	0.05	0.00	0.46	0.00	0.13	0.00	0.24	0.00	0.49	0.00

Table No. 1 (Continued)

		DAYS TO 50% POLLEN SHED																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	IP 8510	102.7	137.3	81.3	121.7	110.8	126.3	71.7	120.0	119.5	114.3	110.4	79.0	56.0	73.7	70.0	65.7	53.7	66.3	95.7	86.3	91.0	92.6
2	CCH 4039	102.0	137.0	79.0	121.7	109.9	128.3	71.0	118.3	118.5	112.7	109.8	78.0	56.3	75.7	71.0	65.0	54.3	66.7	101.0	83.7	92.3	92.6
3	SYN427210	100.0	135.7	80.3	121.3	109.3	124.3	71.0	117.7	117.5	108.7	107.8	77.7	56.0	74.0	75.0	65.0	52.3	66.7	101.7	83.0	92.3	91.8
4	DMRH 1423	96.7	136.3	79.7	122.7	108.8	126.3	72.0	118.7	118.5	107.7	108.6	82.7	59.0	79.3	78.0	66.7	54.7	70.1	99.0	88.3	93.7	93.3
5	PM14202L	101.7	136.7	83.0	125.0	111.6	129.3	72.3	122.7	121.0	112.3	111.5	83.3	59.7	75.7	77.0	72.0	54.7	70.4	99.0	88.0	93.5	94.9
6	Rasi 394	99.7	138.3	81.3	123.7	110.8	128.7	72.7	121.3	119.0	113.3	111.0	80.3	59.0	75.7	76.0	66.7	53.3	68.5	102.7	86.0	94.3	94.0
7	SYN426702	102.3	136.7	82.7	123.0	111.2	131.3	76.0	119.0	120.0	109.3	111.1	80.7	57.3	76.7	76.0	65.0	53.3	68.2	101.7	86.0	93.8	93.9
8	PM14206L	101.0	138.0	81.0	123.7	110.9	122.7	72.7	118.7	117.5	110.7	108.4	78.7	56.7	72.0	71.0	67.3	54.7	66.7	98.7	85.3	92.0	92.4
9	HKH 424	102.3	135.7	79.3	120.7	109.5	123.3	71.7	118.3	119.5	110.3	108.6	78.3	56.0	72.3	74.0	65.3	54.0	66.7	101.0	83.7	92.3	92.1
10	JKMH 4023	101.0	138.0	83.0	123.0	111.3	127.7	76.0	121.7	122.0	110.7	111.6	83.0	59.3	78.7	77.0	66.0	54.3	69.7	103.0	89.7	96.3	94.9
11	SMH 3903	100.3	141.0	81.0	124.0	111.6	127.3	75.0	122.3	125.0	115.0	112.9	82.3	58.0	78.0	75.0	67.7	54.3	69.2	97.7	86.3	92.0	94.7
12	JH 295	103.7	136.7	83.0	124.3	111.9	128.7	75.3	124.7	120.0	115.3	112.8	80.3	59.3	77.3	78.0	66.3	57.3	69.8	102.0	87.3	94.7	95.3
13	PM14204L	102.0	140.0	84.7	126.3	113.3	123.3	76.7	121.3	119.5	113.7	110.9	83.0	59.3	76.3	78.0	72.0	57.7	71.1	102.0	87.7	94.8	95.5
14	PM14208L	100.7	140.7	84.3	126.3	113.0	132.3	76.7	124.7	119.5	115.7	113.8	84.7	61.3	77.7	76.0	69.7	58.0	71.2	101.7	89.3	95.5	96.4
15	KH 2847	102.0	137.0	81.7	123.0	110.9	128.7	74.7	119.7	119.0	112.3	110.9	79.7	57.0	72.7	76.0	65.7	54.0	67.5	101.3	85.7	93.5	93.5
16	HT 142107	98.7	137.0	81.0	125.0	110.4	131.7	71.7	121.7	121.0	110.0	111.2	81.7	57.0	76.0	74.0	65.0	53.0	67.8	102.7	87.3	95.0	93.8
17	SHIATS MS-3	102.0	138.7	84.0	126.3	112.8	129.3	76.0	124.7	122.0	115.3	113.5	84.7	59.3	78.3	77.0	67.0	55.3	70.3	102.0	86.7	94.3	95.8
18	CP 444	104.0	139.3	81.0	125.7	112.5	131.0	72.7	121.0	121.5	115.0	112.2	79.7	57.7	72.3	74.0	65.3	52.7	66.9	94.3	87.0	90.7	93.8
19	Genesis MH-102	101.0	136.7	83.3	125.0	111.5	127.7	74.0	120.3	121.5	112.7	111.2	79.7	59.0	76.0	78.0	67.0	56.3	69.3	102.0	88.3	95.2	94.6
20	GMH 275	103.0	141.3	83.3	127.3	113.8	129.3	76.7	125.0	122.5	116.0	113.9	84.7	58.3	76.7	78.0	70.0	56.7	70.7	103.0	89.7	96.3	96.6
21	PM14201L	99.0	139.3	82.0	125.0	111.3	128.7	72.0	119.7	122.0	114.7	111.4	80.0	55.3	76.0	71.0	66.7	53.7	67.1	96.0	88.3	92.2	93.5
22	CCH 1040	103.0	139.7	81.7	122.3	111.7	131.7	73.3	120.7	121.0	112.0	111.7	82.3	58.3	77.3	78.0	65.3	54.0	69.2	97.0	85.3	91.2	94.3
23	KH 2977	105.0	137.7	82.0	121.3	111.5	124.3	72.3	120.3	120.5	110.0	109.5	81.7	58.0	73.3	73.0	65.7	53.0	67.4	97.0	85.7	91.3	93.0
24	PM14203L	103.0	139.0	82.0	124.3	112.1	130.7	72.0	123.3	123.5	111.3	112.2	82.3	59.3	78.3	74.0	68.0	54.3	69.4	97.7	87.0	92.3	94.7
25	PM14205L	103.0	135.3	79.0	121.3	109.7	123.7	73.0	120.3	117.5	108.7	108.6	78.0	56.7	73.3	71.0	65.0	49.3	65.6	102.0	85.3	93.7	91.9
26	JH 357	105.0	138.0	81.3	123.7	112.0	126.7	72.7	121.3	119.5	109.3	109.9	80.0	57.7	72.3	76.0	65.7	53.7	67.6	99.7	85.3	92.5	93.4
27	KMH 3812	104.3	140.3	82.0	123.3	112.5	130.0	74.3	121.0	121.5	111.7	111.7	82.0	58.0	78.7	74.0	65.0	51.3	68.2	96.0	85.3	90.7	94.0
28	NMH 1290	105.7	142.3	83.0	126.3	114.3	127.3	76.0	121.0	121.0	114.7	112.0	82.7	57.0	74.3	76.0	67.3	55.7	68.8	100.7	85.0	92.8	95.1

Table No. 1 (Continued)

		DAYS TO 50% POLLEN SHED																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
29	GK 3124	106.3	137.0	80.3	122.3	111.5	125.3	71.0	121.3	118.5	108.3	108.9	80.0	58.7	76.3	74.0	66.0	53.7	68.1	98.3	85.7	92.0	93.1
30	PM14207L	103.0	137.0	82.3	122.0	111.1	126.7	72.0	119.3	120.0	111.7	109.9	82.0	57.7	77.0	73.0	67.7	53.3	68.4	104.0	86.0	95.0	93.8
31	GK 3153	103.0	137.0	80.7	122.7	110.8	123.3	73.3	121.3	119.0	110.0	109.4	80.3	57.7	73.7	77.0	65.0	54.0	67.9	102.0	86.3	94.2	93.3
32	GMH 909	105.0	140.7	85.3	126.3	114.3	132.3	76.3	126.7	124.5	117.3	115.4	84.3	59.7	76.3	77.3	71.3	58.0	71.2	101.0	93.7	97.3	97.4
33	IM 8119	104.3	138.7	81.7	123.3	112.0	132.7	74.0	121.3	120.0	114.3	112.5	80.0	57.7	76.0	78.0	69.0	54.3	69.2	101.3	87.7	94.5	95.0
34	JH 409	105.7	139.3	82.0	125.0	113.0	130.7	71.7	122.3	119.0	116.3	112.0	80.7	58.0	76.0	76.0	72.0	55.0	69.6	95.7	83.7	89.7	94.6
35	DKC 9150	106.3	137.0	81.3	122.7	111.8	124.7	74.0	120.3	121.0	113.0	110.6	79.0	57.0	74.0	73.0	65.7	54.0	67.1	103.0	86.7	94.8	93.7
36	VEH 14-2	104.7	138.7	84.3	125.3	113.3	129.7	73.3	121.7	122.5	114.3	112.3	81.3	58.0	76.3	74.0	71.0	53.3	69.0	94.7	89.3	92.0	94.9
37	VEH 14-1	104.7	137.3	83.3	125.7	112.8	125.7	73.3	120.0	122.0	112.3	110.7	81.0	58.3	77.7	77.0	66.7	53.0	68.9	102.0	87.3	94.7	94.5
	CHECKS																						
38	Seedtech 2324-C	105.7	136.7	81.3	123.3	111.8	127.7	76.0	120.7	120.0	114.0	111.7	80.0	57.7	76.0	71.0	66.0	53.7	67.4	99.7	86.7	93.2	93.9
39	Bio9681-C	105.7	138.0	84.3	122.3	112.6	126.7	75.3	118.7	-	113.7	108.6	81.0	60.0	77.7	77.0	68.3	57.0	70.2	103.3	82.3	92.8	93.2
40	Buland-C	104.0	140.0	84.0	126.3	113.6	130.7	74.0	122.0	121.0	114.7	112.5	83.0	59.0	78.0	78.0	71.3	57.0	71.1	100.7	88.7	94.7	96.0
	Loc. Mean	**102.8**	**138.2**	**82.1**	**123.9**	**111.7**	**127.9**	**73.7**	**121.1**	**120.5**	**112.6**	**111.1**	**81.1**	**58.0**	**75.8**	**75.2**	**67.2**	**54.4**	**68.6**	**100.1**	**86.7**	**93.4**	**94.1**
	C.D. (5%)	4.04	0.95	2.15	3.17	2.10	1.94	1.55	2.12	4.06	1.76	2.30	1.85	1.20	1.33	0.15	1.74	1.68	1.61	1.30	1.08	4.77	1.35
	C.V. (%)	2.42	0.42	1.61	1.58	1.34	0.93	1.29	1.08	1.65	0.96	1.66	1.40	1.27	1.08	0.12	1.59	1.90	2.06	0.80	0.77	2.53	2.13
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00

Table No. 1 (Continued)

		DAYS TO 50% SILKING																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	IP 8510	104.3	139.3	82.3	124.3	112.6	128.3	73.0	123.0	124.5	117.7	113.3	79.0	58.0	75.0	71.0	67.0	57.3	67.9	99.0	88.3	93.7	94.8
2	CCH 4039	104.0	138.0	82.0	124.0	112.0	130.3	73.0	121.0	123.0	115.7	112.6	79.7	58.7	78.3	72.0	68.3	57.3	69.1	104.0	85.7	94.8	95.0
3	SYN427210	104.7	137.7	82.3	124.3	112.3	126.3	73.3	120.3	121.0	113.0	110.8	79.7	58.0	74.7	76.0	69.3	55.3	68.8	104.7	85.0	94.8	94.5
4	DMRH 1423	101.0	138.3	81.3	125.7	111.6	128.3	74.0	121.0	123.0	112.3	111.7	85.0	61.3	81.3	79.0	72.0	58.0	72.8	102.0	89.3	95.7	96.1
5	PM14202L	106.0	138.7	84.3	127.0	114.0	131.3	74.0	123.3	125.0	115.7	113.9	83.7	62.0	78.3	78.0	75.3	57.0	72.4	102.0	89.0	95.5	97.1
6	Rasi 394	104.7	140.3	84.0	126.3	113.8	131.0	74.3	123.7	123.0	117.0	113.8	82.3	61.0	77.7	77.0	70.3	56.3	70.8	105.7	88.0	96.8	96.6
7	SYN426702	107.3	138.7	84.3	125.0	113.8	133.3	77.7	121.3	124.0	113.0	113.9	82.7	59.7	78.0	77.0	68.0	56.7	70.3	104.7	88.0	96.3	96.4
8	PM14206L	105.3	140.0	81.7	126.3	113.3	124.7	74.3	121.7	121.0	114.3	111.2	79.3	58.7	73.3	72.0	72.0	57.3	68.8	101.7	86.3	94.0	94.7
9	HKH 424	106.3	137.7	81.3	123.3	112.2	125.3	73.0	121.3	123.0	113.7	111.3	83.0	58.0	74.3	75.0	68.0	56.7	69.2	104.0	84.7	94.3	94.6
10	JKMH 4023	104.3	139.0	83.7	125.7	113.2	129.7	77.7	124.3	126.5	115.7	114.8	85.3	62.3	80.3	78.0	68.0	57.7	71.9	106.0	90.7	98.3	97.3
11	SMH 3903	104.3	142.0	84.0	127.7	114.5	129.3	76.7	125.0	129.5	118.0	115.7	83.3	60.0	80.0	76.0	72.0	57.7	71.5	100.7	88.3	94.5	97.3
12	JH 295	107.3	138.7	85.0	128.7	114.9	130.7	78.0	127.0	125.0	120.3	116.2	84.7	61.7	79.0	79.0	69.0	61.3	72.4	104.7	89.3	97.0	98.2
13	PM14204L	107.0	142.0	86.7	129.7	116.3	125.3	80.0	124.3	124.5	118.0	114.4	85.0	61.7	79.0	79.0	75.0	62.0	73.6	105.3	88.7	97.0	98.4
14	PM14208L	106.3	141.7	86.7	129.0	115.9	134.3	79.7	127.7	124.5	120.3	117.3	87.3	64.0	79.7	77.0	73.0	62.0	73.8	104.7	90.3	97.5	99.3
15	KH 2847	106.3	139.0	83.3	125.0	113.4	130.7	76.7	122.7	124.0	116.7	114.1	81.0	59.3	74.0	77.0	70.7	57.3	69.9	104.3	86.7	95.5	96.2
16	HT 142107	104.3	138.0	83.7	128.7	113.7	133.7	74.0	124.0	126.0	114.3	114.4	86.0	59.0	78.7	75.0	68.0	56.0	70.4	105.7	89.3	97.5	96.7
17	SHIATS MS-3	106.3	141.7	86.0	129.3	115.8	131.3	78.3	127.0	127.0	120.0	116.7	85.7	62.3	80.7	78.0	69.7	57.7	72.3	105.0	87.7	96.3	98.5
18	CP 444	108.0	142.3	82.7	128.0	115.3	134.0	74.0	123.7	126.5	119.0	115.4	81.7	59.7	74.0	75.0	68.0	55.7	69.0	97.7	88.0	92.8	96.3
19	Genesis MH-102	105.0	138.7	85.3	128.0	114.3	130.7	77.3	122.7	126.5	117.3	114.9	83.7	61.7	78.7	79.0	72.0	60.3	72.6	105.0	90.7	97.8	97.8
20	GMH 275	107.3	142.3	85.3	130.0	116.3	131.3	79.0	127.3	127.0	119.7	116.9	85.3	60.7	78.3	79.0	72.0	59.7	72.5	106.0	91.7	98.8	98.9
21	PM14201L	103.0	141.3	84.0	127.0	113.8	130.7	73.3	122.7	125.5	116.7	113.8	81.0	57.3	77.3	72.0	70.0	55.7	68.9	99.3	89.7	94.5	95.7
22	CCH 1040	107.3	142.7	83.7	125.7	114.8	133.3	75.7	123.7	126.0	116.7	115.1	85.3	60.3	79.3	79.0	67.3	57.3	71.4	100.0	86.3	93.2	97.0
23	KH 2977	108.3	139.7	84.0	124.3	114.1	126.3	74.3	123.3	125.5	115.3	113.0	84.3	60.0	74.3	74.0	68.7	56.0	69.6	100.0	86.7	93.3	95.6
24	PM14203L	106.7	141.0	84.0	127.0	114.7	132.7	73.7	126.0	128.0	116.3	115.3	83.7	61.3	79.7	75.0	71.3	58.7	71.6	100.7	88.0	94.3	97.3
25	PM14205L	107.3	137.3	81.7	124.0	112.6	125.7	74.0	122.7	121.5	112.3	111.2	80.0	58.7	74.0	72.0	69.7	52.7	67.8	105.0	86.3	95.7	94.4
26	JH 357	108.3	140.0	83.7	125.7	114.4	128.7	74.7	124.3	124.5	114.3	113.3	82.0	59.7	74.3	77.0	69.7	56.3	69.8	102.7	86.3	94.5	96.0
27	KMH 3812	108.3	142.3	84.7	126.0	115.3	132.0	75.7	123.7	127.0	115.0	114.7	82.0	60.0	80.0	75.0	68.0	54.3	69.9	99.3	87.3	93.3	96.5
28	NMH 1290	110.3	143.3	84.7	127.0	116.3	129.3	78.3	123.3	126.0	117.0	114.8	83.3	59.0	77.0	77.0	69.3	59.0	70.8	103.7	86.0	94.8	97.3

Table No. 1 (Continued)

		DAYS TO 50% SILKING																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
29	GK 3124	111.0	139.0	82.7	125.3	114.5	127.3	73.0	123.7	123.0	113.0	112.0	82.3	60.7	78.0	75.0	69.3	57.7	70.5	101.3	87.3	94.3	95.9
30	PM14207L	107.3	139.0	83.7	124.3	113.6	128.7	73.3	122.0	125.0	115.3	112.9	83.3	59.7	78.3	74.0	70.0	56.7	70.3	107.0	88.0	97.5	96.2
31	GK 3153	107.3	139.0	82.7	125.3	113.6	125.3	75.0	124.0	124.0	114.7	112.6	82.7	59.7	75.0	78.0	68.3	57.7	70.2	105.0	88.3	96.7	96.0
32	GMH 909	108.3	141.7	87.3	129.0	116.6	134.3	79.3	129.7	129.0	121.3	118.7	86.3	61.7	78.3	78.3	74.0	61.7	73.4	104.0	95.7	99.8	100.0
33	IM 8119	108.3	139.7	84.0	126.7	114.7	134.7	76.7	124.0	124.0	117.7	115.4	80.7	59.7	77.3	79.0	70.7	57.0	70.7	104.3	88.7	96.5	97.2
34	JH 409	110.3	141.3	84.0	127.3	115.8	132.7	73.3	125.0	124.0	118.7	114.7	81.7	60.0	77.7	77.0	75.0	57.3	71.4	99.0	85.7	92.3	97.1
35	DKC 9150	111.0	139.0	83.0	125.0	114.5	126.7	76.3	123.3	127.0	116.7	114.0	82.0	59.0	75.7	74.0	69.7	56.7	69.5	106.0	88.7	97.3	96.5
36	VEH 14-2	109.0	139.7	86.0	128.3	115.8	131.7	75.0	123.7	126.5	117.7	114.9	82.7	60.3	78.7	75.0	74.0	57.0	71.3	98.0	90.3	94.2	97.3
37	VEH 14-1	109.0	139.3	85.3	128.0	115.4	127.7	75.0	122.0	125.0	115.3	113.0	83.7	60.7	79.7	78.0	70.0	56.0	71.3	73.0	89.3	81.2	95.1
	CHECKS																						
38	Seedtech 2324-C	110.3	138.7	83.0	126.3	114.6	129.7	78.0	123.3	124.0	117.7	114.5	81.7	60.0	78.0	72.0	69.7	56.3	69.6	102.7	88.7	95.7	96.5
39	Bio9681-C	110.0	141.0	86.3	124.7	115.5	128.7	78.0	121.0	-	117.3	111.3	81.7	62.3	79.3	78.0	70.7	61.0	72.2	106.3	84.3	95.3	95.7
40	Buland-C	109.0	142.0	86.0	128.7	116.4	132.7	76.3	123.7	125.5	118.3	115.3	85.0	61.7	79.7	79.0	73.7	61.0	73.3	104.0	89.7	96.8	98.6
	Loc. Mean	**107.0**	**140.0**	**84.0**	**126.5**	**114.4**	**130.0**	**75.7**	**123.7**	**125.0**	**116.5**	**114.1**	**83.0**	**60.2**	**77.6**	**76.2**	**70.4**	**57.6**	**70.8**	**102.4**	**88.2**	**95.3**	**96.7**
	C.D. (5%)	4.47	0.95	1.93	3.19	2.08	1.92	1.71	2.55	4.20	1.73	2.36	2.25	1.03	1.52	0.15	2.47	1.94	1.72	14.25	1.13	8.40	1.60
	C.V. (%)	2.57	0.42	1.41	1.55	1.30	0.91	1.39	1.27	1.64	0.91	1.66	1.67	1.05	1.21	0.12	2.16	2.07	2.14	8.56	0.79	4.36	2.46
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.56	0.00

Table No. 1 (Continued)

		DAYS TO 75% DRY HUSK																				
					ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	IP 8510	141.0	179.3	110.0	143.4	161.3	115.0	155.0	159.5	154.0	149.0	123.7	98.0	115.0	114.3	108.3	98.3	109.6	134.0	132.3	133.2	131.2
2	CCH 4039	146.0	177.3	109.0	144.1	161.0	117.0	152.3	159.0	151.7	148.2	122.3	98.0	118.3	115.0	105.0	99.0	109.6	136.0	129.3	132.7	131.0
3	SYN427210	142.0	180.7	112.0	144.9	158.7	115.7	158.7	156.5	153.7	148.6	124.3	98.0	114.7	120.0	107.3	96.7	110.2	139.0	128.0	133.5	131.6
4	DMRH 1423	147.3	175.7	110.0	144.3	159.7	117.0	155.7	159.0	149.7	148.2	125.0	101.3	121.3	123.0	108.0	99.7	113.1	137.0	132.0	134.5	132.6
5	PM14202L	143.3	180.7	111.0	145.0	163.7	116.0	161.0	160.0	152.3	150.6	125.7	102.0	118.3	122.0	112.0	96.7	112.8	136.3	130.3	133.3	133.2
6	Rasi 394	147.3	179.0	115.3	147.2	164.7	116.0	156.0	156.0	154.0	149.3	125.0	101.7	117.7	121.0	106.3	98.0	111.6	140.7	125.0	132.8	132.7
7	SYN426702	146.7	179.0	113.7	146.4	165.7	119.3	156.7	159.5	152.7	150.8	125.7	100.0	118.0	121.0	109.0	98.7	112.1	139.3	130.3	134.8	133.4
8	PM14206L	141.7	179.3	114.0	145.0	161.7	117.0	159.7	157.0	157.3	150.5	123.0	99.0	113.3	115.3	109.7	96.7	109.5	136.3	129.7	133.0	131.9
9	HKH 424	142.7	172.0	114.0	142.9	163.7	119.0	154.3	158.0	154.0	149.8	125.0	98.3	114.3	119.0	109.7	97.3	110.6	138.7	131.0	134.8	131.9
10	JKMH 4023	147.3	178.3	114.3	146.7	163.7	119.0	159.7	161.5	152.7	151.3	125.0	102.7	120.3	122.0	110.7	100.0	113.4	140.7	129.0	134.8	134.2
11	SMH 3903	148.3	180.3	110.3	146.3	163.7	118.0	159.3	164.5	154.3	152.0	121.7	100.3	120.0	120.0	110.7	99.7	112.1	135.3	128.7	132.0	133.4
12	JH 295	148.3	174.7	112.7	145.2	161.3	117.0	157.3	162.0	154.3	150.4	120.3	102.0	119.0	123.0	106.3	103.0	112.3	140.7	127.7	134.2	133.1
13	PM14204L	144.3	179.3	113.7	145.8	162.0	117.0	158.3	158.0	156.7	150.4	127.0	102.3	119.0	123.0	112.0	102.7	114.3	139.7	130.0	134.8	134.1
14	PM14208L	148.3	179.7	113.7	147.2	164.3	119.3	161.7	160.5	156.7	152.5	126.3	104.0	119.7	121.0	111.7	103.7	114.4	140.0	132.3	136.2	135.2
15	KH 2847	145.0	179.3	113.3	145.9	162.7	117.0	159.7	159.5	156.0	151.0	125.0	100.0	114.0	121.0	107.7	98.3	111.0	140.0	130.3	135.2	133.1
16	HT 142107	143.3	181.7	112.0	145.7	165.7	117.0	155.0	161.0	155.0	150.7	123.0	99.3	118.7	119.0	105.3	98.7	110.7	141.0	131.0	136.0	132.9
17	SHIATS MS-3	147.3	178.0	112.0	145.8	166.3	117.0	159.3	162.0	153.7	151.7	124.3	102.0	120.7	122.0	109.0	98.3	112.7	139.3	130.0	134.7	133.8
18	CP 444	140.3	180.7	111.3	144.1	166.3	118.0	158.7	161.5	155.0	151.9	125.0	100.0	114.0	119.0	111.3	96.3	110.9	132.7	132.0	132.3	132.6
19	Genesis MH-102	151.7	177.0	111.7	146.8	163.7	119.3	156.0	158.0	152.7	149.9	122.7	102.3	118.7	123.0	107.3	102.7	112.8	138.7	129.7	134.2	133.4
20	GMH 275	150.0	179.7	115.3	148.3	161.0	123.0	163.3	164.0	158.7	154.0	130.3	101.7	118.3	123.0	116.0	101.0	115.1	140.3	134.0	137.2	136.2
21	PM14201L	140.3	180.0	111.7	144.0	163.7	117.0	158.0	160.0	152.7	150.3	123.0	97.7	117.3	115.3	110.3	97.3	110.2	134.3	128.7	131.5	131.7
22	CCH 1040	146.3	182.0	112.7	147.0	166.3	116.7	161.3	163.0	153.3	152.1	124.3	100.0	119.3	123.0	109.0	98.0	112.3	134.3	131.3	132.8	133.8
23	KH 2977	148.3	180.7	111.7	146.9	162.7	117.0	161.3	159.0	154.7	150.9	125.7	100.0	114.3	118.0	111.7	96.7	111.1	135.7	132.0	133.8	133.1
24	PM14203L	149.3	178.7	112.0	146.7	164.7	115.0	158.7	163.0	152.3	150.7	125.7	101.7	119.7	119.0	109.3	99.7	112.5	137.7	129.7	133.7	133.5
25	PM14205L	145.3	180.7	111.0	145.7	160.3	117.3	157.3	155.0	151.0	148.2	124.3	98.3	114.0	115.0	106.7	94.7	108.8	139.7	129.0	134.3	131.2
26	JH 357	150.0	177.3	113.7	147.0	165.7	117.0	164.0	160.0	155.3	152.4	121.0	101.0	114.3	121.0	111.0	97.3	110.9	138.0	125.3	131.7	133.3
27	KMH 3812	149.7	178.0	108.3	145.3	157.7	116.0	153.3	160.5	151.3	147.8	91.0	100.0	120.0	119.0	111.7	96.0	106.3	134.0	129.3	131.7	129.7
28	NMH 1290	147.0	177.0	110.7	144.9	162.7	117.0	157.7	164.0	153.7	151.0	123.7	99.3	117.0	121.0	111.7	100.7	112.2	137.7	132.3	135.0	133.3

Table No. 1 (Continued)

		DAYS TO 75% DRY HUSK																				
					ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
29	GK 3124	151.0	180.3	111.0	147.4	161.0	116.0	162.7	160.0	152.7	150.5	127.0	101.0	118.0	118.7	111.7	99.3	112.6	136.3	134.3	135.3	133.8
30	PM14207L	148.3	181.3	113.3	147.7	161.7	116.7	156.7	159.0	153.7	149.5	127.0	100.0	118.3	118.0	111.0	98.7	112.2	142.0	129.0	135.5	133.4
31	GK 3153	147.3	178.7	112.3	146.1	162.7	117.0	160.7	159.5	153.7	150.7	127.7	101.3	115.0	122.0	111.3	98.3	112.6	140.0	128.0	134.0	133.5
32	GMH 909	145.3	180.7	113.0	146.3	164.7	118.0	161.7	162.5	154.0	152.2	128.3	101.7	118.3	122.3	111.7	102.7	114.2	138.3	131.7	135.0	134.7
33	IM 8119	143.0	180.7	114.3	146.0	165.7	116.3	161.7	159.5	157.0	152.0	123.7	99.7	117.3	123.0	112.3	99.3	112.6	140.3	127.3	133.8	133.8
34	JH 409	149.7	176.7	108.7	145.0	165.7	115.0	156.7	159.0	153.3	149.9	123.7	100.0	117.7	121.0	112.0	97.3	111.9	134.3	129.3	131.8	132.5
35	DKC 9150	148.7	183.0	114.7	148.8	160.3	117.0	160.7	161.5	157.3	151.4	123.0	99.0	115.7	118.0	113.3	96.3	110.9	141.7	132.0	136.8	133.9
36	VEH 14-2	148.3	177.7	112.3	146.1	164.3	118.0	155.7	162.0	151.7	150.3	120.3	100.3	118.7	119.0	106.7	98.7	110.6	132.7	132.0	132.3	132.4
37	VEH 14-1	145.3	174.0	114.3	144.6	158.7	116.3	156.7	160.5	150.3	148.5	124.3	102.0	119.7	122.0	107.3	97.3	112.1	140.3	130.0	135.2	132.4
	CHECKS																					
38	Seedtech 2324-C	145.0	180.3	113.3	146.2	162.7	117.0	157.7	160.5	155.7	150.7	126.3	100.3	118.0	115.3	107.7	97.3	110.8	136.3	131.7	134.0	132.8
39	Bio9681-C	145.0	179.3	115.0	146.4	161.0	122.0	154.3	-	156.0	148.3	123.0	102.7	119.3	121.7	111.7	101.0	113.2	141.3	128.3	134.8	132.1
40	Buland-C	145.3	179.7	108.7	144.6	164.7	116.3	159.3	161.0	153.0	150.9	123.7	102.0	119.7	123.0	109.3	101.7	113.2	140.0	128.7	134.3	133.5
	Loc. Mean	**146.3**	**179.0**	**112.3**	**145.8**	**162.9**	**117.3**	**158.3**	**160.2**	**153.9**	**150.5**	**123.7**	**100.5**	**117.6**	**120.1**	**109.8**	**98.8**	**111.7**	**138.0**	**130.1**	**134.0**	**133.0**
	C.D. (5%)	3.05	0.87	3.09	4.00	1.43	1.80	4.04	3.72	2.12	2.66	15.05	1.49	1.52	0.40	3.01	2.24	3.22	2.66	5.10	5.39	1.86
	C.V. (%)	1.28	0.30	1.69	1.69	0.54	0.94	1.57	1.13	0.85	1.41	7.49	0.91	0.80	0.20	1.69	1.39	2.53	1.18	2.41	1.99	2.01
	F (Prob)	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.96	0.00

Table No. 1 (Continued)

		PLANT HEIGHT(cm)																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	IP 8510	198.3	205.0	216.7	263.7	220.9	221.2	199.0	186.0	175.6	204.3	197.2	205.5	219.2	210.3	178.3	246.0	166.4	204.3	244.3	229.7	237.0	210.0
2	CCH 4039	203.0	168.3	180.0	237.3	197.2	201.0	176.0	160.0	153.3	180.3	174.1	188.0	187.0	186.3	178.3	232.0	162.4	189.0	252.3	230.0	241.2	192.7
3	SYN427210	199.7	203.3	213.3	245.3	215.4	201.2	187.3	164.7	167.1	200.3	184.1	200.5	215.2	188.7	175.0	243.7	168.3	198.6	225.3	209.0	217.2	200.5
4	DMRH 1423	188.7	160.0	191.7	246.0	196.6	190.3	185.7	169.0	166.3	182.0	178.7	218.0	224.7	180.7	180.0	248.7	152.2	200.7	239.0	215.0	227.0	196.3
5	PM14202L	198.3	205.0	208.3	274.7	221.6	222.3	212.3	189.0	192.9	217.0	206.7	212.0	223.9	214.0	231.7	249.7	170.8	217.0	230.7	218.0	224.3	215.9
6	Rasi 394	210.0	191.7	190.0	252.7	211.1	199.2	201.7	165.0	170.4	202.0	187.7	197.0	215.0	155.3	158.3	239.3	159.7	187.5	242.3	215.7	229.0	198.0
7	SYN426702	196.7	186.7	201.7	256.7	210.4	217.3	212.7	188.3	194.1	214.0	205.3	207.0	219.0	207.3	180.0	231.0	157.3	200.3	237.0	210.7	223.8	206.9
8	PM14206L	200.0	178.3	220.0	268.7	216.8	205.3	204.0	184.0	197.4	206.0	199.3	225.0	226.0	204.3	188.3	250.7	154.9	208.2	227.3	232.3	229.8	210.1
9	HKH 424	198.3	178.3	186.7	250.3	203.4	213.5	196.0	173.7	179.8	200.3	192.7	179.0	206.1	195.3	151.7	243.0	170.6	191.0	254.0	211.0	232.5	199.3
10	JKMH 4023	201.0	163.3	198.3	247.7	202.6	199.5	196.7	162.3	168.6	203.7	186.1	182.0	209.5	177.3	178.3	231.0	155.6	189.0	230.7	237.7	234.2	196.7
11	SMH 3903	188.7	158.3	185.0	231.7	190.9	180.1	170.7	158.3	164.8	183.7	171.5	175.0	204.9	171.7	161.7	212.3	151.5	179.5	208.7	173.3	191.0	181.2
12	JH 295	196.0	190.0	218.3	253.0	214.3	203.9	197.0	165.0	165.8	208.0	187.9	183.5	210.4	194.3	151.7	232.7	157.0	188.3	229.3	214.3	221.8	198.3
13	PM14204L	196.3	223.3	246.7	278.0	236.1	231.3	222.7	192.3	196.3	233.3	215.2	234.5	226.2	236.7	216.7	257.0	153.3	220.7	274.3	241.0	257.7	227.1
14	PM14208L	191.7	216.7	218.3	291.0	229.4	228.3	208.3	201.3	200.7	211.0	209.9	207.5	221.9	235.7	188.3	260.0	164.1	212.9	254.3	241.7	248.0	220.0
15	KH 2847	173.7	201.7	218.3	256.7	212.6	222.4	188.7	191.7	177.6	214.3	198.9	176.0	225.4	206.0	175.0	227.0	159.4	194.8	247.3	219.3	233.3	204.7
16	HT 142107	192.3	188.3	193.3	275.3	212.3	205.6	215.3	176.7	178.5	217.7	198.7	179.5	218.6	167.0	160.0	249.3	163.5	189.7	242.3	221.0	231.7	202.6
17	SHIATS MS-3	181.7	181.7	196.7	229.7	197.4	208.3	185.7	153.0	175.2	201.7	184.8	197.5	213.7	187.3	173.3	206.3	159.3	189.6	212.7	225.0	218.8	193.5
18	CP 444	192.7	191.7	185.0	247.7	204.3	201.2	171.0	172.3	157.3	192.7	178.9	180.0	210.2	191.7	156.7	232.7	163.9	189.2	232.0	226.3	229.2	194.4
19	Genesis MH-102	182.3	201.7	206.7	246.3	209.3	210.2	188.0	171.3	174.5	200.0	188.8	197.5	213.7	183.7	170.0	231.0	169.2	194.2	236.0	211.3	223.7	199.6
20	GMH 275	182.7	160.0	198.3	250.0	197.8	214.4	186.0	158.7	173.7	182.0	183.0	197.0	204.7	165.7	170.0	247.7	174.7	193.3	247.7	216.0	231.8	195.8
21	PM14201L	200.3	206.7	203.3	265.3	218.9	211.6	212.7	202.3	175.0	205.3	201.4	200.0	224.0	181.7	183.3	213.0	169.4	195.2	241.0	232.7	236.8	207.5
22	CCH 1040	198.3	161.7	188.3	241.3	197.4	208.3	194.3	177.7	171.7	192.7	188.9	178.0	225.5	155.7	175.0	226.0	157.5	186.3	227.3	215.0	221.2	193.8
23	KH 2977	195.0	185.0	218.3	273.0	217.8	200.4	187.7	187.3	185.6	205.0	193.2	195.0	220.1	183.3	161.7	250.0	171.3	196.9	239.3	212.7	226.0	204.2
24	PM14203L	193.0	193.3	205.0	277.0	217.1	219.0	217.0	204.7	168.7	213.7	204.6	214.5	223.2	220.7	185.0	240.7	164.3	208.1	237.3	217.3	227.3	211.4
25	PM14205L	185.3	210.0	225.0	271.7	223.0	234.0	232.3	197.7	180.0	235.0	215.8	213.0	217.0	204.7	198.3	273.7	159.0	210.9	250.7	230.0	240.3	218.7
26	JH 357	200.3	176.7	213.3	252.3	210.7	207.8	210.7	185.7	174.2	204.3	196.5	184.5	218.1	204.0	170.0	222.3	171.9	195.1	244.0	211.7	227.8	203.0
27	KMH 3812	189.3	200.0	211.7	259.3	215.1	202.3	211.7	190.0	185.8	202.3	198.4	211.0	227.7	189.0	188.3	244.7	168.3	204.8	241.7	219.0	230.3	208.4
28	NMH 1290	192.0	178.3	220.0	277.0	216.8	226.2	201.7	172.3	180.0	207.0	197.4	209.5	222.0	195.7	176.7	232.3	161.8	199.7	249.0	220.3	234.7	207.2

Table No. 1 (Continued)

		PLANT HEIGHT(cm)																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
29	GK 3124	186.3	188.3	203.3	248.3	206.6	213.0	202.3	172.7	183.9	192.7	192.9	199.5	217.1	163.7	178.3	240.0	171.7	195.0	200.7	209.3	205.0	198.3
30	PM14207L	185.0	210.0	218.3	281.3	223.7	226.4	218.0	189.0	199.1	212.0	208.9	204.0	224.9	200.0	178.3	234.7	174.7	202.8	240.3	233.3	236.8	213.5
31	GK 3153	184.3	181.7	215.0	247.3	207.1	210.1	202.0	177.0	177.1	176.0	188.4	195.0	221.5	189.7	181.7	229.7	164.1	196.9	260.7	220.3	240.5	202.0
32	GMH 909	188.3	140.0	188.3	217.7	183.6	182.9	177.3	156.7	168.7	186.0	174.3	187.5	187.9	173.0	153.3	222.0	157.7	180.2	236.0	214.7	225.3	184.6
33	IM 8119	181.3	208.3	198.3	246.3	208.6	177.2	208.7	176.3	163.8	202.3	185.7	187.0	197.4	175.0	166.7	232.0	156.4	185.7	244.3	223.7	234.0	196.8
34	JH 409	190.7	180.0	193.3	237.7	200.4	169.4	191.7	179.0	165.8	199.3	181.0	186.0	209.3	166.0	153.3	226.7	139.0	180.1	210.7	215.7	213.2	189.0
35	DKC 9150	186.3	206.7	231.7	271.7	224.1	206.4	201.0	178.0	180.3	214.7	196.1	212.0	220.3	202.3	190.0	251.0	174.9	208.4	244.0	209.3	226.7	210.6
36	VEH 14-2	186.7	213.3	185.0	266.3	212.8	203.8	220.0	183.3	162.3	206.0	195.1	208.5	242.3	206.7	181.7	255.7	160.6	209.2	229.3	211.0	220.2	207.2
37	VEH 14-1	188.7	143.3	171.7	236.7	185.1	187.7	199.0	155.7	165.3	194.3	180.4	176.0	217.3	167.7	158.3	236.0	163.3	186.4	244.3	216.7	230.5	189.5
	CHECKS																						
38	Seedtech 2324-C	187.3	160.0	193.3	235.7	194.1	194.0	195.3	161.0	162.7	202.3	183.1	185.5	202.0	161.0	166.7	228.7	151.3	182.5	214.0	227.3	220.7	189.9
39	Bio9681-C	185.7	193.3	205.0	269.7	213.4	220.9	207.3	191.0	-	209.3	207.1	249.5	220.5	175.0	181.7	241.3	172.8	206.8	244.3	240.3	242.3	213.0
40	Buland-C	184.7	206.7	221.7	267.3	220.1	219.3	216.0	185.7	182.7	213.7	203.5	192.0	248.4	203.7	176.7	216.0	161.9	199.8	246.0	214.3	230.2	209.2
	Loc. Mean	**191.5**	**187.4**	**204.6**	**256.1**	**209.9**	**207.4**	**200.3**	**177.6**	**176.0**	**203.2**	**193.1**	**198.3**	**217.0**	**189.4**	**175.7**	**237.2**	**162.7**	**196.7**	**237.8**	**219.8**	**228.8**	**202.5**
	C.D. (5%)	9.72	5.32	31.37	11.55	17.14	31.54	19.70	20.61	18.01	14.69	10.90	17.27	9.49	27.14	29.25	25.05	10.29	13.50	36.55	11.77	20.71	7.51
	C.V. (%)	3.12	1.75	9.43	2.77	5.83	9.35	6.05	7.14	4.99	4.45	4.52	5.36	2.69	8.81	10.24	6.50	3.89	6.03	9.45	3.29	4.47	5.50
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00

Table No. 1 (Continued)

		EAR HEIGHT(cm)																				
						ZN 2						ZN 3						ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	IP 8510	103.7	80.0	118.3	109.0	102.8	138.3	93.3	77.3	75.4	98.7	96.6	90.5	115.3	94.0	126.7	85.3	102.4	131.9	109.3	120.6	102.9
2	CCH 4039	98.3	75.0	115.0	113.3	100.4	114.5	92.0	88.0	62.8	106.7	92.8	100.5	116.4	92.3	128.3	84.3	104.4	142.6	108.3	125.5	102.4
3	SYN427210	96.3	96.7	116.7	88.0	99.4	89.4	86.7	61.0	73.3	97.0	81.5	94.5	120.4	82.0	115.3	87.8	100.0	133.8	96.7	115.2	96.0
4	DMRH 1423	92.0	70.0	113.3	107.0	95.6	102.3	87.0	75.0	71.3	86.0	84.3	113.0	125.6	88.0	122.7	90.6	108.0	127.1	123.3	125.2	99.6
5	PM14202L	102.3	78.3	115.0	123.0	104.7	103.3	92.7	90.3	83.2	113.7	96.6	98.0	123.7	83.7	126.7	93.0	105.0	122.2	115.0	118.6	104.0
6	Rasi 394	108.7	81.7	115.0	122.3	106.9	96.0	103.0	76.7	82.3	108.7	93.3	96.5	122.9	79.0	126.3	93.3	103.6	137.4	120.0	128.7	104.4
7	SYN426702	97.3	78.3	118.3	110.3	101.1	96.7	108.7	80.7	77.5	106.0	93.9	101.0	118.1	91.3	147.3	92.7	110.1	132.1	110.0	121.1	104.2
8	PM14206L	99.7	80.0	101.7	101.7	95.8	77.4	87.7	72.3	74.2	79.7	78.3	97.0	108.6	79.0	109.3	84.5	95.7	145.7	85.0	115.3	92.7
9	HKH 424	89.0	70.0	101.7	97.0	89.4	86.8	87.0	78.0	73.2	92.7	83.5	80.0	113.6	88.0	129.3	83.6	98.9	134.1	99.3	116.7	94.0
10	JKMH 4023	99.7	65.0	118.3	105.0	97.0	91.7	103.0	75.3	79.9	104.3	90.8	87.5	116.9	78.3	120.0	94.4	99.4	142.2	162.0	152.1	102.7
11	SMH 3903	91.3	65.0	101.7	87.7	86.4	71.4	74.3	71.0	66.2	87.7	74.1	80.0	115.1	71.7	105.0	81.7	90.7	132.3	102.7	117.5	87.8
12	JH 295	95.0	90.0	143.3	109.3	109.4	104.3	106.3	81.3	80.3	121.0	98.7	97.0	121.8	101.7	127.3	89.6	107.5	125.8	133.0	129.4	107.9
13	PM14204L	88.7	115.0	146.7	125.7	119.0	115.5	110.7	89.3	88.8	124.3	105.7	110.5	122.7	116.3	142.3	90.0	116.4	134.2	125.0	129.6	115.4
14	PM14208L	101.0	108.3	125.0	124.0	114.6	106.1	97.7	98.0	83.3	118.7	100.7	89.5	115.0	99.0	134.0	83.5	104.2	147.4	109.0	128.2	108.7
15	KH 2847	88.3	96.7	135.0	121.3	110.3	118.3	93.7	91.7	86.2	120.0	102.0	79.0	120.7	98.0	106.3	87.4	98.3	147.2	118.7	132.9	106.8
16	HT 142107	98.0	78.3	108.3	110.0	98.7	77.6	101.7	71.7	79.0	107.7	87.5	75.0	119.7	68.7	122.7	87.3	94.7	139.2	119.0	129.1	97.7
17	SHIATS MS-3	89.0	90.0	130.0	104.0	103.3	88.7	92.0	85.7	87.1	103.7	91.4	99.5	121.9	87.7	109.3	84.4	100.5	149.0	119.3	134.2	102.6
18	CP 444	97.0	85.0	98.3	107.3	96.9	80.9	89.7	77.3	63.4	85.3	79.3	84.5	111.8	82.3	114.7	75.4	93.7	126.2	125.0	125.6	94.0
19	Genesis MH-102	87.3	110.0	128.3	115.3	110.3	123.9	103.7	90.3	77.8	116.0	102.3	103.0	124.3	101.0	117.0	91.4	107.3	142.3	114.7	128.5	109.1
20	GMH 275	98.3	70.0	125.0	103.7	99.3	95.6	90.3	73.3	75.2	92.7	85.4	91.0	94.0	72.7	128.3	90.0	95.2	140.7	124.7	132.7	97.8
21	PM14201L	89.7	106.7	118.3	119.7	108.6	90.3	100.7	98.3	91.0	105.3	97.1	93.0	126.2	94.3	108.3	96.2	103.6	125.8	105.0	115.4	104.3
22	CCH 1040	98.0	90.0	113.3	110.3	102.9	89.5	100.3	93.3	84.2	104.3	94.3	86.5	120.8	73.0	112.0	91.5	96.8	127.3	107.3	117.3	100.1
23	KH 2977	88.0	80.0	113.3	105.0	96.6	83.7	82.0	80.3	82.8	101.0	86.0	83.5	117.1	71.3	130.0	91.4	98.7	125.7	101.7	113.7	96.1
24	PM14203L	87.7	80.0	113.3	119.7	100.2	96.3	97.7	89.0	82.2	115.3	96.1	91.5	125.9	88.7	109.3	93.7	101.8	145.6	110.7	128.1	102.9
25	PM14205L	98.3	93.3	115.0	113.7	105.1	101.5	107.7	81.7	87.6	106.7	97.0	86.5	106.1	88.0	123.3	86.7	98.1	145.7	111.3	128.5	103.3
26	JH 357	92.3	85.0	128.3	113.7	104.8	101.7	105.7	85.0	92.9	110.3	99.1	102.0	124.7	106.3	122.0	89.3	108.9	133.9	116.3	125.1	106.8
27	KMH 3812	91.7	93.3	116.7	113.0	103.7	82.1	97.0	88.3	83.9	107.3	91.7	97.0	130.3	83.7	125.3	96.0	106.5	135.7	115.7	125.7	103.6
28	NMH 1290	97.7	85.0	131.7	108.7	105.8	95.2	95.7	78.0	90.0	114.3	94.6	97.0	118.5	91.0	112.3	88.7	101.5	135.7	116.7	126.2	103.5

Table No. 1 (Continued)

		EAR HEIGHT(cm)																				
						ZN 2						ZN 3						ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
29	GK 3124	96.7	100.0	108.3	108.0	103.3	100.0	100.7	77.3	81.7	100.3	92.0	97.5	124.0	71.0	127.7	86.4	101.3	122.2	120.7	121.4	101.4
30	PM14207L	98.3	90.0	113.3	118.7	105.1	99.4	100.7	76.3	84.0	106.7	93.4	86.0	119.0	79.7	140.0	92.3	103.4	130.4	111.7	121.1	102.9
31	GK 3153	89.7	85.0	111.7	100.3	96.7	90.8	99.0	79.0	70.9	83.3	84.6	91.0	111.6	83.7	111.7	90.3	97.7	140.8	107.3	124.1	96.6
32	GMH 909	100.3	60.0	110.0	97.7	92.0	74.9	78.0	56.7	68.9	84.3	72.6	83.0	83.7	74.0	106.3	85.2	86.5	120.7	107.3	114.0	86.9
33	IM 8119	104.7	93.3	105.0	92.7	98.9	95.9	85.0	75.3	55.2	106.0	83.5	88.5	100.7	69.7	107.0	85.7	90.3	140.6	107.7	124.1	94.6
34	JH 409	78.3	91.7	116.7	104.3	97.8	90.4	95.7	85.3	80.7	101.7	90.8	91.0	122.7	75.7	106.7	89.9	97.2	130.7	89.0	109.9	96.9
35	DKC 9150	88.0	85.0	116.7	97.3	96.8	69.8	85.7	78.0	83.3	97.7	82.9	97.5	114.7	85.7	117.7	86.1	100.3	140.7	111.0	125.8	97.2
36	VEH 14-2	98.0	83.3	100.0	105.3	96.7	84.3	100.3	76.7	64.7	98.7	84.9	87.0	131.3	91.0	129.3	85.6	104.8	135.9	97.0	116.5	98.0
37	VEH 14-1	87.0	55.0	108.3	86.0	84.1	94.6	97.7	61.0	76.8	88.7	83.8	68.5	121.3	67.7	120.0	83.6	92.2	132.3	93.3	112.8	90.1
	CHECKS																					
38	Seedtech 2324-C	96.3	80.0	130.0	117.0	105.8	98.4	109.7	85.3	79.3	117.7	98.1	101.0	115.5	93.3	123.7	81.8	103.1	129.0	109.0	119.0	104.2
39	Bio9681-C	97.3	80.0	115.0	113.7	101.5	75.6	105.7	81.0	-	109.3	92.9	100.0	122.9	71.0	145.7	93.7	106.6	137.2	115.0	126.1	104.2
40	Buland-C	94.3	100.0	133.3	112.7	110.1	101.2	124.3	82.7	92.1	114.3	102.9	100.5	146.9	107.7	115.7	87.7	111.7	140.6	115.0	127.8	110.6
	Loc. Mean	**94.8**	**85.0**	**117.3**	**108.6**	**101.4**	**94.9**	**96.8**	**80.3**	**78.8**	**103.6**	**90.9**	**92.4**	**118.3**	**85.5**	**121.3**	**88.3**	**101.2**	**135.2**	**112.2**	**123.7**	**100.9**
	C.D. (5%)	3.08	3.00	23.62	9.21	12.63	20.83	9.33	14.65	12.52	10.79	10.27	10.64	4.99	16.20	15.10	6.99	10.50	30.91	11.17	21.01	6.08
	C.V. (%)	2.00	2.17	12.39	5.22	8.89	13.51	5.93	11.22	7.75	6.41	9.04	7.08	2.60	11.65	7.66	4.87	8.31	14.06	6.13	8.40	8.68
	F (Prob)	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.39	0.00

TABLE No. 2 **Performance of medium maturing experimental hybrids at Kanpur, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Ranchi, Varanasi, Arbhavi, Coimbatore, Karimnagar, Kolhapur, Mandya, Vagarai, Banswara, Godhra in IVT trial no. 2 (IVT-Medium) during Rabi (2014-15)**

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																					
Sl										ZN 2												ZN 3	
No	PEDIGREE	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R
1	BH 412067	8776	29	6352	29	11630	18	11092	6	9463	25	7607	16	5819	29	13105	1	8345	9	8418	27	7547	21
2	PM 142096M	9507	23	8088	18	12927	9	10776	8	10324	12	8471	13	6137	25	7103	23	10577	1	11932	6	9279	4
3	MMHQPM-09-2014	9446	26	8453	14	11565	19	9890	21	9839	19	8721	10	5606	30	7015	24	8490	8	9458	20	8069	14
4	KNMH 4010131	9378	27	7792	22	8630	29	9414	27	8804	30	4787	32	7110	7	6726	27	-	-	9693	18	7197	25
5	DMRH 1420	9448	25	8860	10	9648	28	10753	10	9677	22	4572	33	6977	8	9561	10	7290	17	10153	16	7248	23
6	MMHQPM-010-2014	11216	6	8673	12	12010	14	10345	15	10561	9	9316	4	6976	9	8043	18	9350	6	9276	24	8729	6
7	IHQ 091	10344	16	3147	33	3370	33	7078	33	5985	33	5976	27	3981	32	9403	12	5100	26	4241	32	4824	32
8	HKH 346	9193	28	8564	13	12546	12	10406	14	10177	16	6829	21	6120	26	8470	15	7353	16	10442	13	7686	19
9	BH 412066	10943	11	9167	5	13794	7	10627	12	11133	4	8678	11	6867	16	7465	22	6538	20	11325	7	8352	10
10	BH 412065	11131	8	8420	15	11824	16	9501	25	10219	15	6420	24	7255	5	7757	21	5461	24	9685	19	7205	24
11	BLH 102	11545	3	9082	7	14334	3	11331	3	11573	2	10041	3	8113	1	11823	2	10268	2	14193	1	10654	2
12	BH 412064	10864	12	9078	8	13841	6	10065	18	10962	7	4851	31	7189	6	6469	28	6528	21	10881	11	7362	22
13	KH 518	8475	32	6555	27	12917	10	7529	31	8869	29	9140	7	6965	12	8179	17	8324	10	10390	15	8705	7
14	IH 031	9450	24	5568	31	8295	30	9946	19	8315	31	6318	25	4785	31	6258	30	4940	28	5756	31	5450	31
15	IHQ 092	8563	31	4647	32	4428	32	7334	32	6243	32	6490	23	3609	33	4642	33	4611	31	3431	33	4535	33
16	DMRH 1422	10380	14	9029	9	10809	25	9473	26	9923	18	6552	22	6304	24	9831	9	4915	29	7569	30	6335	30
17	HKH 345	10785	13	8300	16	7886	31	9545	24	9129	27	8847	8	5877	28	9414	11	-	-	8360	28	7695	18
18	BH 412044	11604	2	6970	26	11375	21	8810	29	9690	21	5666	28	6870	15	9390	13	5018	27	9419	21	6744	29
19	BLH 101	10115	18	8079	19	14118	5	10760	9	10768	8	9259	5	6572	21	9283	14	9078	7	11016	10	8981	5
20	MMHQPM-07-2014	9876	20	7778	23	11025	24	9916	20	9649	24	7749	15	6499	22	8027	20	7760	13	9727	17	7934	16
21	DMRH 1419	11390	4	6396	28	11858	15	7996	30	9410	26	4932	30	6974	10	6257	31	6654	19	9366	23	6981	27
22	BH 412055	10063	19	5994	30	11483	20	8845	28	9096	28	7301	17	6888	14	6076	32	7557	14	8874	26	7655	20
23	CP .222	11166	7	8840	11	14319	4	9774	22	11025	6	12231	1	7626	2	10596	5	10237	3	12901	3	10749	1
24	IM 8013	12014	1	9319	4	16151	1	11565	1	12262	1	10203	2	6969	11	10569	6	10044	4	13986	2	10301	3
25	HT 1412081	10996	10	7148	25	15884	2	11318	4	11336	3	7868	14	6379	23	10413	7	7767	12	12559	4	8643	8
26	MMHQPM-11-2014	8687	30	7362	24	13116	8	10163	17	9832	20	9231	6	7477	4	8371	16	5393	25	10430	14	8132	13
27	BH 412062	9644	22	10367	1	10776	26	10653	11	10360	11	7061	18	7577	3	8042	19	4873	30	11955	5	7866	17
28	MMHQPM-08-2014	11127	9	7816	21	11176	22	11404	2	10380	10	6849	20	5910	27	6326	29	6503	22	8084	29	6837	28

TABLE No. 2 (Cont...)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE KANP	R	KARN	R	LUDH	R	PANT	R	ZN 2 MEAN	R	BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	ZN 3 MEAN	R
29	DMRH 1410	10332	17	9166	6	11032	23	9596	23	10031	17	8593	12	6948	13	10909	3	7225	18	9416	22	8045	15
30	KH K 85	11269	5	9379	2	12442	13	11239	5	11082	5	8817	9	6696	19	9966	8	7458	15	10663	12	8408	9
31	DMRH 1421	8465	33	9331	3	10615	27	10262	16	9668	23	6228	26	6681	20	6849	26	6124	23	8909	25	6985	26
	CHECKS																						
32	Bio 9637	9783	21	8052	20	12651	11	10553	13	10260	13	6981	19	6700	18	7014	25	8154	11	11321	8	8289	11
33	HM10	10357	15	8162	17	11666	17	10805	7	10248	14	5452	29	6753	17	10710	4	9493	5	11016	9	8178	12
	Location Mean	**10192**		**7877**		**11519**		**9963**		**9888**		**7516**		**6521**		**8487**		**7336**		**9844**		**7806**	
	C.D. (5%)	507		396		1779		1391		1018		872		532		4053		1543		1365		1078	
	C.V. (%)	3.05		3.08		9.46		8.56		-		7.11		5		**29.27**		10.98		8.5		-	
	F (Prob)	0		0		0		0				0		0		0.019		0		0			
	Plot Size	4.8		6		4.8		6		-		4.8		4.8		5.6		5.6		4.8		-	
	AGRONOMY DATA																						
	Sowing Date	8-12		22-11		2-02		2-12		-		22-11		5-12		26-11		4-12		21-11		-	
	Harvest Date	15-05		24-05		11-06		28-05		-		10-05		21-04		2-06		22-05		9-05		-	
	Irrigation Nos	4		8		12		6		-		5		-		2		8		3		-	
	Ferilizer Applied N	120		150		70		120		-		150		120		150		140		150		-	
	Ferilizer Applied P	60		60		24		60		-		75		60		70		60		75		-	
	Ferilizer Applied K	50		60		12		40		-		60		60		60		40		60		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 29.3 %

TABLE No. 2 **(Cont…)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																					
		ARBH	R	COIM	R	KARI	R	KOLH	R	MAND	R	VAGA	R	ZN 4 MEAN	R	BANS	R	GODH	R	ZN 5 MEAN	R	OV'L MEAN	R
1	BH 412067	6523	27	10393	15	8721	18	5402	13	7150	23	4614	29	7134	26	9484	5	6698	10	8091	7	7939	23
2	PM 142096M	12627	2	10256	16	11386	2	5618	6	5803	32	7708	5	8900	6	9609	3	6250	15	7929	9	9229	7
3	MMHQPM-09-2014	7650	26	10554	13	9163	15	4391	28	7238	21	5429	24	7404	23	9390	7	6378	13	7884	10	8239	18
4	KNMH 4010131	10062	12	9409	22	8392	25	3852	32	6364	27	6727	10	7468	22	8046	22	5214	21	6630	24	7179	29
5	DMRH 1420	10469	9	9660	17	7812	28	5088	15	8095	17	6506	12	7939	19	7113	29	4469	27	5791	29	7932	24
6	MMHQPM-010-2014	8714	20	11294	8	7737	29	5767	4	8279	15	6051	20	7973	18	7080	30	4145	29	5612	30	8514	12
7	IHQ 091	2722	33	4722	33	2716	33	3329	33	6080	30	3694	33	3877	33	5375	33	3102	32	4238	33	4686	33
8	HKH 346	9701	16	7956	28	8575	21	5522	9	6098	29	4749	27	7100	27	7403	28	6875	8	7139	14	8021	20
9	BH 412066	12852	1	11640	7	11632	1	6408	3	9086	8	7924	2	9924	1	8083	21	10920	1	9501	1	9780	3
10	BH 412065	9897	14	10614	12	8772	17	5567	8	7641	20	6428	16	8153	13	9060	9	6628	11	7844	11	8394	15
11	BLH 102	11699	4	10411	14	10780	5	5012	17	9218	6	4518	31	8606	10	8384	16	7512	5	7948	8	9777	4
12	BH 412064	12102	3	12659	5	9265	14	5745	5	8444	12	7443	6	9276	4	7908	24	5818	19	6863	20	8917	8
13	KH 518	11308	5	9502	20	9386	13	4798	19	9026	9	5953	21	8329	12	8198	20	6332	14	7265	13	8425	14
14	IH 031	4728	31	4888	32	6015	31	4927	18	6372	26	4619	28	5258	32	5433	32	6749	9	6091	28	6174	31
15	IHQ 092	4584	32	6105	31	3987	32	5460	11	6030	31	5702	23	5311	31	6611	31	3900	31	5255	31	5343	32
16	DMRH 1422	7921	25	9408	23	10064	10	5480	10	8373	13	7162	8	8068	15	8380	17	5692	20	7036	18	7969	21
17	HKH 345	5299	29	9655	18	8531	23	4589	23	6339	28	5384	25	6633	29	8237	19	5957	18	7097	15	7099	30
18	BH 412044	10813	7	11221	9	10504	7	5571	7	8775	11	6483	13	8894	7	8622	12	7574	4	8098	6	8456	13
19	BLH 101	9532	17	13352	4	10180	8	4681	21	8096	16	5948	22	8631	9	9740	2	7340	6	8540	5	9242	5
20	MMHQPM-07-2014	5990	28	8735	26	8931	16	5084	16	7170	22	6393	17	7050	28	8483	15	4936	24	6710	22	7878	25
21	DMRH 1419	10736	8	9593	19	7611	30	4508	26	-	-	7907	3	8071	14	9577	4	7638	3	8607	3	7696	27
22	BH 412055	8415	23	7531	30	8553	22	4677	22	9831	3	4125	32	7189	25	8289	18	5076	23	6683	23	7719	26
23	CP .222	11206	6	13416	3	9972	11	6958	1	9989	2	6910	9	9742	2	8549	13	10276	2	9412	2	10273	2
24	IM 8013	10158	10	13698	1	10898	4	6877	2	8345	14	8084	1	9677	3	9977	1	7155	7	8566	4	10340	1
25	HT 1412081	10057	13	11953	6	10624	6	4368	29	9337	5	6090	19	8738	8	9286	8	6117	17	7702	12	9234	6
26	MMHQPM-11-2014	8439	22	11167	10	8578	20	4544	24	8907	10	6450	14	8014	17	8513	14	4303	28	6408	26	8297	17
27	BH 412062	10080	11	13602	2	9894	12	4747	20	9406	4	6445	15	9029	5	7431	27	5085	22	6258	27	8725	9
28	MMHQPM-08-2014	5186	30	7535	29	7942	27	4099	31	6784	24	6107	18	6276	30	7505	26	2498	33	5002	32	7283	28

TABLE No. 2 (Cont...)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																				
		ARBH	R	COIM	R	KARI	R	KOLH	R	MAND	R	VAGA	R	ZN 4 MEAN	R	BANS	R	GODH	R	ZN 5 MEAN	R	OV'L MEAN	R
29	DMRH 1410	9868	15	9419	21	10138	9	4528	25	7806	19	6607	11	8061	16	8923	10	4635	25	6779	21	8389	16
30	KH K 85	8227	24	9007	25	8462	24	5417	12	9136	7	4586	30	7473	21	7558	25	6533	12	7045	17	8556	11
31	DMRH 1421	8968	19	9389	24	8637	19	5324	14	7926	18	7287	7	7922	20	8867	11	4088	30	6478	25	7944	22
	CHECKS																						
32	Bio 9637	9415	18	10799	11	8357	26	4495	27	10286	1	7833	4	8531	11	8012	23	6158	16	7085	16	8722	10
33	HM10	8564	21	8377	27	11316	3	4131	30	6604	25	5063	26	7342	24	9469	6	4555	26	7012	19	8236	19
	Location Mean	**8925**		**9937**		**8895**		**5060**		**7939**		**6149**		**7817**		**8260**		**5958**		**7109**		**8200**	
	C.D. (5%)	2240		1227		1374		1056		957		1505		1393		1019		517		768		1143	
	C.V. (%)	15.39		7.57		9.47		12.79		7.62		15		-		7.56		5.32		-		-	
	F (Prob)	0		0		0		0		0		0				0		0					
	Plot Size	4.8		4.8		5.6		6		5.6		4.8		-		4.8		4.8		-		-	
	AGRONOMY DATA																						
	Sowing Date	26-11		20-12		30-11		30-12		12-09		20-01		-		30-11		5-12		-		-	
	Harvest Date	24-04		7-04		17-04		6-08		27-04		12-05		-		8-05		4-05		-		-	
	Irrigation Nos	8		10		13		-		12		10		-		6		8		-		-	
	Ferilizer Applied N	150		150		240		120		150		150		-		150		100		-		-	
	Ferilizer Applied P	75		75		80		60		75		75		-		80		50		-		-	
	Ferilizer Applied K	37.5		75		80		40		40		75		-		-		-		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 29.3 %

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Bio 9637																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
		KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	KARI	KOLH	MAND	VAGA	MEAN	BANS	GODH	MEAN	MEAN
1	BH 412067	-	-	-	5.1	-	9	-	86.8	2.3	-	-	-	-	4.4	20.2	-	-	-	18.4	8.8	14.2	-
2	PM 142096M	-	0.5	2.2	2.1	0.6	21.3	-	1.3	29.7	5.4	11.9	34.1	-	36.2	25	-	-	4.3	19.9	1.5	11.9	5.8
3	MMHQPM-09-2014	-	5	-	-	-	24.9	-	0	4.1	-	-	-	-	9.6	-	-	-	-	17.2	3.6	11.3	-
4	KNMH 4010131	-	-	-	-	-	-	6.1	-	-	-	-	6.9	-	0.4	-	-	-	-	0.4	-	-	-
5	DMRH 1420	-	10	-	1.9	-	-	4.1	36.3	-	-	-	11.2	-	-	13.2	-	-	-	-	-	-	-
6	MMHQPM-010-2014	14.7	7.7	-	-	2.9	33.4	4.1	14.7	14.7	-	5.3	-	4.6	-	28.3	-	-	-	-	-	-	-
7	IHQ 091	5.7	-	-	-	-	-	-	34.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	HKH 346	-	6.4	-	-	-	-	-	20.8	-	-	-	3	-	2.6	22.9	-	-	-	-	11.6	0.8	-
9	BH 412066	11.9	13.8	9	0.7	8.5	24.3	2.5	6.4	-	0	0.8	36.5	7.8	39.2	42.6	-	1.2	16.3	0.9	77.3	34.1	12.1
10	BH 412065	13.8	4.6	-	-	-	-	8.3	10.6	-	-	-	5.1	-	5	23.9	-	-	-	13.1	7.6	10.7	-
11	BLH 102	18	12.8	13.3	7.4	12.8	43.8	21.1	68.6	25.9	25.4	28.5	24.2	-	29	11.5	-	-	0.9	4.6	22	12.2	12.1
12	BH 412064	11	12.7	9.4	-	6.8	-	7.3	-	-	-	-	28.5	17.2	10.9	27.8	-	-	8.7	-	-	-	2.2
13	KH 518	-	-	2.1	-	-	30.9	4	16.6	2.1	-	5	20.1	-	12.3	6.7	-	-	-	2.3	2.8	2.5	-
14	IH 031	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	-	-	-	-	9.6	-	-
15	IHQ 092	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.5	-	-	-	-	-	-	-
16	DMRH 1422	6.1	12.1	-	-	-	-	-	40.2	-	-	-	-	-	20.4	21.9	-	-	-	4.6	-	-	-
17	HKH 345	10.2	3.1	-	-	-	26.7	-	34.2	-	-	-	-	-	2.1	2.1	-	-	-	2.8	-	0.2	-
18	BH 412044	18.6	-	-	-	-	-	2.5	33.9	-	-	-	14.8	3.9	25.7	23.9	-	-	4.3	7.6	23	14.3	-
19	BLH 101	3.4	0.3	11.6	2	5	32.6	-	32.3	11.3	-	8.4	1.2	23.6	21.8	4.1	-	-	1.2	21.6	19.2	20.5	6
20	MMHQPM-07-2014	0.9	-	-	-	-	11	-	14.4	-	-	-	-	-	6.9	13.1	-	-	-	5.9	-	-	-
21	DMRH 1419	16.4	-	-	-	-	-	4.1	-	-	-	-	14	-	-	0.3	-	1	-	19.5	24	21.5	-
22	BH 412055	2.9	-	-	-	-	4.6	2.8	-	-	-	-	-	-	2.3	4.1	-	-	-	3.5	-	-	-
23	CP .222	14.1	9.8	13.2	-	7.5	75.2	13.8	51.1	25.5	14	29.7	19	24.2	19.3	54.8	-	-	14.2	6.7	66.9	32.8	17.8
24	IM 8013	22.8	15.7	27.7	9.6	19.5	46.2	4	50.7	23.2	23.5	24.3	7.9	26.8	30.4	53	-	3.2	13.4	24.5	16.2	20.9	18.6
25	HT 1412081	12.4	-	25.6	7.2	10.5	12.7	-	48.5	-	10.9	4.3	6.8	10.7	27.1	-	-	-	2.4	15.9	-	8.7	5.9
26	MMHQPM-11-2014	-	-	3.7	-	-	32.2	11.6	19.3	-	-	-	-	3.4	2.6	1.1	-	-	-	6.2	-	-	-
27	BH 412062	-	28.8	-	0.9	1	1.2	13.1	14.7	-	5.6	-	7.1	26	18.4	5.6	-	-	5.8	-	-	-	0
28	MMHQPM-08-2014	13.7	-	-	8.1	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	DMRH 1410	5.6	13.8	-	-	-	23.1	3.7	55.5	-	-	-	4.8	-	21.3	0.7	-	-	-	11.4	-	-	-
30	KH K 85	15.2	16.5	-	6.5	8	26.3	-	42.1	-	-	1.4	-	-	1.3	20.5	-	-	-	-	6.1	-	-
31	DMRH 1421	-	15.9	-	-	-	-	-	-	-	-	-	-	-	3.3	18.4	-	-	-	10.7	-	-	-
	CHECKS																						
32	Bio 9637	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	HM10	5.9	1.4	-	2.4	-	-	0.8	52.7	16.4	-	-	-	-	35.4	-	-	-	-	18.2	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 29.3 %

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM10																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
		KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	KARI	KOLH	MAND	VAGA	MEAN	BANS	GODH	MEAN	MEAN
1	BH 412067	-	-	-	2.7	-	39.5	-	22.4	-	-	-	-	24.1	-	30.8	8.3	-	-	0.2	47.1	15.4	-
2	PM 142096M	-	-	10.8	-	0.8	55.4	-	-	11.4	8.3	13.5	47.4	22.4	0.6	36	-	52.3	21.2	1.5	37.2	13.1	12.1
3	MMHQPM-09-2014	-	3.6	-	-	-	59.9	-	-	-	-	-	-	26	-	6.3	9.6	7.2	0.8	-	40	12.4	0
4	KNMH 4010131	-	-	-	-	-	-	5.3	-	-	-	-	17.5	12.3	-	-	-	32.9	1.7	-	14.5	-	-
5	DMRH 1420	-	8.6	-	-	-	-	3.3	-	-	-	-	22.3	15.3	-	23.2	22.6	28.5	8.1	-	-	-	-
6	MMHQPM-010-2014	8.3	6.3	2.9	-	3.1	70.9	3.3	-	-	-	6.7	1.7	34.8	-	39.6	25.4	19.5	8.6	-	-	-	3.4
7	IHQ 091	-	-	-	-	-	9.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	HKH 346	-	4.9	7.5	-	-	25.2	-	-	-	-	-	13.3	-	-	33.7	-	-	-	-	51	1.8	-
9	BH 412066	5.7	12.3	18.2	-	8.6	59.2	1.7	-	-	2.8	2.1	50.1	39	2.8	55.1	37.6	56.5	35.2	-	139.8	35.5	18.7
10	BH 412065	7.5	3.2	1.4	-	-	17.7	7.4	-	-	-	-	15.6	26.7	-	34.8	15.7	27	11	-	45.5	11.9	1.9
11	BLH 102	11.5	11.3	22.9	4.9	12.9	84.2	20.1	10.4	8.2	28.8	30.3	36.6	24.3	-	21.3	39.6	-	17.2	-	64.9	13.3	18.7
12	BH 412064	4.9	11.2	18.6	-	7	-	6.5	-	-	-	-	41.3	51.1	-	39.1	27.9	47	26.3	-	27.7	-	8.3
13	KH 518	-	-	10.7	-	-	67.6	3.1	-	-	-	6.4	32	13.4	-	16.1	36.7	17.6	13.4	-	39	3.6	2.3
14	IH 031	-	-	-	-	-	15.9	-	-	-	-	-	-	-	-	19.3	-	-	-	-	48.2	-	-
15	IHQ 092	-	-	-	-	-	19	-	-	-	-	-	-	-	-	32.2	-	12.6	-	-	-	-	-
16	DMRH 1422	0.2	10.6	-	-	-	20.2	-	-	-	-	-	-	12.3	-	32.7	26.8	41.5	9.9	-	25	0.3	-
17	HKH 345	4.1	1.7	-	-	-	62.3	-	-	-	-	-	-	15.3	-	11.1	-	6.4	-	-	30.8	1.2	-
18	BH 412044	12	-	-	-	-	3.9	1.7	-	-	-	-	26.3	34	-	34.8	32.9	28.1	21.1	-	66.3	15.5	2.7
19	BLH 101	-	-	21	-	5.1	69.8	-	-	-	-	9.8	11.3	59.4	-	13.3	22.6	17.5	17.6	2.9	61.2	21.8	12.2
20	MMHQPM-07-2014	-	-	-	-	-	42.1	-	-	-	-	-	-	4.3	-	23.1	8.6	26.3	-	-	8.4	-	-
21	DMRH 1419	10	-	1.6	-	-	-	3.3	-	-	-	-	25.4	14.5	-	9.1	-	56.2	9.9	1.1	67.7	22.8	-
22	BH 412055	-	-	-	-	-	33.9	2	-	-	-	-	-	-	-	13.2	48.9	-	-	-	11.5	-	-
23	CP .222	7.8	8.3	22.7	-	7.6	124.3	12.9	-	7.8	17.1	31.4	30.9	60.2	-	68.4	51.3	36.5	32.7	-	125.6	34.2	24.7
24	IM 8013	16	14.2	38.4	7	19.7	87.1	3.2	-	5.8	27	25.9	18.6	63.5	-	66.5	26.4	59.7	31.8	5.4	57.1	22.2	25.5
25	HT 1412081	6.2	-	36.2	4.7	10.6	44.3	-	-	-	14	5.7	17.4	42.7	-	5.7	41.4	20.3	19	-	34.3	9.8	12.1
26	MMHQPM-11-2014	-	-	12.4	-	-	69.3	10.7	-	-	-	-	-	33.3	-	10	34.9	27.4	9.2	-	-	-	0.7
27	BH 412062	-	27	-	-	1.1	29.5	12.2	-	-	8.5	-	17.7	62.4	-	14.9	42.4	27.3	23	-	11.7	-	5.9
28	MMHQPM-08-2014	7.4	-	-	5.5	1.3	25.6	-	-	-	-	-	-	-	-	-	2.7	20.6	-	-	-	-	-
29	DMRH 1410	-	12.3	-	-	-	57.6	2.9	1.9	-	-	-	15.2	12.4	-	9.6	18.2	30.5	9.8	-	1.8	-	1.9
30	KH K 85	8.8	14.9	6.6	4	8.1	61.7	-	-	-	-	2.8	-	7.5	-	31.1	38.3	-	1.8	-	43.4	0.5	3.9
31	DMRH 1421	-	14.3	-	-	-	14.2	-	-	-	-	-	4.7	12.1	-	28.9	20	43.9	7.9	-	-	-	-
	CHECKS																						
32	Bio 9637	-	-	8.4	-	0.1	28	-	-	-	2.8	1.3	9.9	28.9	-	8.8	55.8	54.7	16.2	-	35.2	1	5.9
33	HM10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 29.3 %

Table No. 2 (Continued)

		MOISTURE % AT HARVEST																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	BH 412067	14.3	26.4	26.0	18.7	21.3	24.1	18.7	18.0	18.3	25.6	20.9	15.4	25.1	11.7	11.4	16.5	16.8	16.1	17.1	16.5	16.8	18.8
2	PM 142096M	15.0	26.3	24.1	19.7	21.3	25.2	19.9	14.6	17.9	27.0	20.9	16.6	22.0	11.7	11.7	15.3	19.1	16.1	17.1	14.6	15.9	18.7
3	MMHQPM-09-2014	15.7	27.6	25.4	17.0	21.4	24.3	18.8	16.5	17.7	22.5	19.9	19.3	23.0	10.2	12.1	15.6	17.0	16.2	17.3	14.9	16.1	18.5
4	KNMH 4010131	15.7	26.6	30.4	22.2	23.7	22.9	18.4	19.2	-	28.4	22.2	17.9	24.8	13.7	12.3	16.6	17.3	17.1	17.4	17.6	17.5	20.1
5	DMRH 1420	15.7	27.9	26.2	14.4	21.0	23.8	19.6	20.5	18.1	27.0	21.8	22.7	22.5	13.6	11.0	17.6	16.5	17.3	17.1	15.3	16.2	19.4
6	MMHQPM-010-2014	16.7	28.4	26.9	18.6	22.6	24.5	18.8	20.0	18.1	26.1	21.5	19.1	23.1	11.2	12.8	16.6	17.5	16.7	17.2	16.2	16.7	19.5
7	IHQ 091	14.7	33.2	17.7	18.9	21.1	24.3	19.3	20.9	17.1	16.7	19.6	16.1	14.0	9.2	12.0	13.0	17.8	13.7	16.2	13.9	15.0	17.3
8	HKH 346	13.3	27.4	24.3	16.4	20.4	24.1	19.1	16.0	20.0	24.0	20.6	18.0	21.3	8.8	11.8	15.3	17.5	15.4	17.7	15.9	16.8	18.3
9	BH 412066	15.0	28.7	27.4	19.9	22.7	24.9	19.2	15.7	19.2	25.5	20.9	19.4	21.5	9.3	11.9	16.8	18.0	16.1	17.4	16.5	17.0	19.2
10	BH 412065	12.7	29.8	28.9	17.5	22.2	24.3	18.9	20.0	20.0	28.4	22.3	24.7	24.1	9.4	12.5	18.3	18.1	17.8	16.1	13.5	14.8	19.8
11	BLH 102	14.0	32.4	30.8	20.9	24.5	25.6	19.3	19.1	18.3	31.0	22.6	11.8	24.3	11.9	12.0	17.9	17.0	15.8	17.4	15.5	16.4	19.9
12	BH 412064	16.0	27.6	28.8	20.4	23.2	23.5	19.1	19.6	19.0	25.5	21.3	22.7	22.7	11.7	12.0	16.7	18.1	17.3	16.9	15.3	16.1	19.7
13	KH 518	16.3	27.3	27.1	25.3	24.0	24.1	19.2	21.1	18.6	29.3	22.4	21.4	24.2	13.9	12.6	17.2	17.6	17.8	17.5	15.9	16.7	20.5
14	IH 031	16.3	26.4	18.5	18.9	20.0	23.2	18.0	13.6	18.5	19.5	18.5	15.8	19.7	9.2	12.2	15.2	18.4	15.1	17.4	14.0	15.7	17.3
15	IHQ 092	16.3	29.9	16.6	18.1	20.2	24.8	18.9	27.4	17.4	17.7	21.2	17.2	14.7	14.0	12.0	14.7	17.1	14.9	17.0	14.3	15.6	18.1
16	DMRH 1422	14.0	27.1	27.5	17.6	21.5	23.1	18.7	20.2	18.0	25.7	21.1	22.8	26.5	10.4	12.0	15.9	17.0	17.4	18.6	14.2	16.4	19.4
17	HKH 345	14.3	26.6	25.9	19.9	21.7	25.0	19.0	14.9	-	25.4	21.1	18.6	22.1	9.5	12.6	14.7	15.9	15.6	17.4	14.5	16.0	18.5
18	BH 412044	14.3	28.1	28.0	18.3	22.2	25.8	18.8	19.2	17.9	26.5	21.6	20.2	22.8	10.8	12.5	17.1	17.8	16.8	17.5	14.7	16.1	19.4
19	BLH 101	14.3	29.3	24.7	17.9	21.5	24.1	19.3	17.2	18.1	25.6	20.8	14.8	20.7	11.3	13.0	17.2	17.6	15.7	18.0	17.2	17.6	18.8
20	MMHQPM-07-2014	16.5	26.6	25.7	21.6	22.6	23.2	19.2	16.9	18.7	23.6	20.3	15.0	20.8	9.6	12.5	16.3	17.4	15.2	17.8	15.2	16.5	18.6
21	DMRH 1419	15.0	28.2	25.7	25.5	23.6	23.1	18.6	17.5	18.5	26.0	20.7	17.5	24.8	14.6	12.6	-	18.0	17.5	18.0	16.3	17.1	20.0
22	BH 412055	16.3	26.9	27.6	17.5	22.1	25.4	19.1	17.5	19.8	25.1	21.4	23.0	25.5	10.3	12.2	15.8	16.3	17.2	17.3	15.6	16.4	19.5
23	CP .222	14.0	30.9	31.6	24.2	25.2	26.1	19.7	23.0	19.3	31.5	23.9	19.5	24.7	14.2	11.9	17.8	19.2	17.9	17.9	15.1	16.5	21.2
24	IM 8013	14.3	29.3	27.4	19.2	22.5	25.7	19.2	19.2	17.9	27.1	21.8	16.3	21.6	10.4	12.0	15.8	17.3	15.6	17.9	14.6	16.2	19.1
25	HT 1412081	14.3	27.3	27.7	17.4	21.7	26.1	18.8	19.1	21.5	27.0	22.5	18.9	23.4	10.7	12.7	16.3	16.9	16.5	17.1	14.4	15.8	19.4
26	MMHQPM-11-2014	14.3	28.3	28.1	20.2	22.7	25.2	19.0	17.7	19.0	26.8	21.5	24.2	23.1	8.8	11.8	16.9	16.3	16.8	17.8	17.1	17.4	19.7
27	BH 412062	16.3	29.2	28.2	24.5	24.6	24.1	18.7	16.2	17.6	25.7	20.4	20.6	24.0	8.2	12.4	17.3	16.4	16.5	17.1	15.5	16.3	19.5
28	MMHQPM-08-2014	14.0	25.5	24.2	18.6	20.6	23.4	18.4	16.6	19.1	25.6	20.6	19.6	21.1	9.6	12.2	14.8	17.5	15.8	17.7	15.8	16.7	18.4
29	DMRH 1410	14.3	27.1	24.3	21.9	21.9	25.1	19.3	17.5	19.5	25.0	21.2	18.3	21.9	10.4	11.9	15.8	17.9	16.0	17.6	14.6	16.1	18.9
30	KH K 85	14.3	28.6	26.2	17.9	21.7	25.3	18.9	17.0	18.3	25.0	20.9	20.5	24.0	6.6	13.3	15.3	16.8	16.1	18.0	15.5	16.7	18.9
31	DMRH 1421	14.3	25.7	25.3	20.1	21.3	23.1	19.2	15.4	17.9	24.3	20.0	23.2	21.7	9.0	11.3	16.3	18.5	16.6	17.5	15.5	16.5	18.7
	CHECKS																						
32	Bio 9637	15.7	27.4	29.1	22.9	23.7	24.9	18.8	19.6	18.3	26.8	21.7	14.5	27.1	11.0	12.5	17.2	17.8	16.6	18.3	15.5	16.9	19.8
33	HM10	16.7	27.2	25.2	19.7	22.2	24.3	18.7	18.0	19.2	23.5	20.7	19.3	24.0	9.1	12.8	16.5	16.7	16.4	18.0	14.0	16.0	19.0
	Loc. Mean	**15.0**	**28.0**	**26.1**	**19.7**	**22.2**	**24.4**	**19.0**	**18.3**	**18.6**	**25.4**	**21.2**	**18.9**	**22.6**	**10.7**	**12.2**	**16.2**	**17.4**	**16.3**	**17.4**	**15.3**	**16.4**	**19.1**
	C.D. (5%)	1.34	-	1.63	2.46	3.18	0.96	0.66	1.74	2.79	1.70	2.35	3.12	0.77	1.48	0.87	0.81	0.88	2.14	0.76	0.52	1.44	1.24
	C.V. (%)	5.48	-	3.84	7.66	10.21	2.42	2.15	5.81	7.12	4.10	8.89	10.13	2.10	8.45	4.38	3.01	3.10	11.46	2.68	2.08	4.32	9.60
	F (Prob)	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.54	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.11	0.00

Table No. 2 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING % KANP	KARN	LUDH	PANT	ZN 2 Mean	BAHR	BHUB	DHOL	RANC	VARA	ZN 3 Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	BH 412067	76.0	80.4	85.0	83.4	81.2	69.7	81.9	79.0	82.5	71.5	76.9	79.4	78.0	76.2	70.7	80.5	76.2	76.8	76.9	84.0	80.4	78.3
2	PM 142096M	77.3	83.2	80.8	85.8	81.8	80.1	80.9	79.5	86.3	82.0	81.8	86.4	80.4	81.6	84.8	79.6	78.2	81.8	79.7	87.0	83.3	82.0
3	MMHQPM-09-2014	75.3	82.7	88.6	84.0	82.7	78.0	82.0	77.0	84.5	82.5	80.8	84.8	79.4	80.1	75.5	81.1	75.5	79.4	78.2	83.4	80.8	80.7
4	KNMH 4010131	74.0	81.4	84.7	81.1	80.3	69.6	79.0	82.5	-	73.0	76.0	81.2	77.4	73.9	70.4	80.8	77.1	76.8	75.5	77.4	76.5	77.4
5	DMRH 1420	75.3	83.3	69.0	78.2	76.5	72.0	76.4	82.5	80.5	76.0	77.5	81.8	75.7	75.9	86.0	80.6	76.1	79.3	75.7	80.7	78.2	78.0
6	MMHQPM-010-2014	77.0	82.6	82.7	81.7	81.0	76.7	80.9	83.5	82.8	72.0	79.2	80.9	78.4	74.6	80.4	80.1	75.3	78.3	73.7	76.6	75.1	78.8
7	IHQ 091	77.7	79.4	84.1	80.6	80.4	71.0	80.5	80.5	83.8	83.0	79.8	76.9	82.0	77.8	68.9	81.8	75.5	77.1	68.9	83.2	76.0	78.6
8	HKH 346	73.3	80.7	82.8	80.3	79.3	74.4	81.2	80.0	83.4	76.5	79.1	82.2	76.0	79.9	71.1	80.3	75.4	77.5	76.4	81.3	78.8	78.5
9	BH 412066	74.3	82.0	91.2	78.1	81.4	73.7	80.0	80.0	81.1	75.5	78.1	80.8	76.0	77.3	77.5	81.2	77.7	78.4	77.3	82.1	79.7	79.2
10	BH 412065	75.0	83.4	89.3	82.0	82.4	74.1	80.5	82.5	83.2	77.0	79.5	84.2	81.7	78.1	78.3	82.4	77.3	80.3	78.3	85.3	81.8	80.7
11	BLH 102	73.3	82.4	85.0	83.7	81.1	80.6	82.0	83.5	79.7	80.0	81.2	78.4	80.3	83.2	70.0	81.8	76.0	78.3	79.6	87.1	83.3	80.4
12	BH 412064	74.3	82.2	88.8	83.9	82.3	71.1	81.8	81.0	79.9	73.5	77.5	81.8	76.5	74.6	77.6	80.9	78.1	78.2	74.8	80.9	77.8	78.9
13	KH 518	71.7	81.4	82.8	77.2	78.3	79.3	79.3	80.0	86.9	77.5	80.6	84.5	80.0	79.5	66.8	81.5	75.1	77.9	77.1	83.1	80.1	79.0
14	IH 031	74.3	80.1	89.6	84.3	82.1	79.9	82.1	81.5	86.1	80.0	81.9	83.8	78.9	80.2	72.3	80.7	75.4	78.6	73.5	82.1	77.8	80.3
15	IHQ 092	72.0	79.8	92.7	80.1	81.2	72.9	81.4	76.5	80.5	82.0	78.6	84.7	80.3	79.7	81.1	80.1	76.9	80.5	73.9	83.2	78.5	79.9
16	DMRH 1422	75.0	83.6	85.6	79.3	80.9	70.5	81.9	81.5	82.7	76.5	78.6	82.0	78.0	79.0	77.4	80.3	77.8	79.1	77.9	81.2	79.6	79.4
17	HKH 345	71.7	80.5	84.6	81.3	79.5	77.6	80.8	85.0	-	76.5	80.0	84.0	78.6	81.9	74.1	79.2	76.1	79.0	77.8	82.0	79.9	79.5
18	BH 412044	74.7	81.7	84.1	77.4	79.5	73.6	82.2	82.0	83.3	73.0	78.8	82.1	78.5	77.2	82.3	79.1	76.4	79.2	77.6	85.0	81.3	79.4
19	BLH 101	75.7	81.3	81.9	83.9	80.7	80.3	79.7	80.0	84.4	80.0	80.9	82.5	80.0	81.2	69.2	80.7	76.3	78.3	77.8	84.1	80.9	79.9
20	MMHQPM-07-2014	76.0	83.2	83.7	81.0	81.0	77.2	80.0	81.0	83.3	77.5	79.8	82.1	80.1	80.1	85.1	83.2	76.6	81.2	74.8	72.7	73.7	79.9
21	DMRH 1419	77.0	81.4	87.6	80.1	81.5	75.4	78.3	82.0	80.9	73.0	77.9	79.7	76.9	75.3	68.1	-	76.3	75.2	78.5	81.5	80.0	78.2
22	BH 412055	76.7	80.7	85.9	80.0	80.8	67.3	80.8	79.0	81.6	75.5	76.8	83.4	76.9	77.4	74.4	81.6	75.4	78.2	77.7	80.0	78.8	78.5
23	CP .222	75.7	83.0	89.2	81.8	82.4	80.8	82.4	83.0	81.6	79.5	81.4	86.0	80.6	81.4	81.6	81.8	79.1	81.7	76.4	85.2	80.8	81.7
24	IM 8013	77.3	82.4	85.3	84.2	82.3	79.3	80.6	83.0	87.6	78.0	81.7	83.9	82.1	81.9	87.3	80.0	79.1	82.4	79.1	82.7	80.9	82.0
25	HT 1412081	76.7	80.5	84.2	80.0	80.3	78.0	80.1	83.0	82.5	81.0	80.9	84.1	80.4	80.9	68.7	81.7	77.1	78.8	77.9	87.5	82.7	80.2
26	MMHQPM-11-2014	73.0	80.0	90.7	85.8	82.4	77.9	80.7	83.0	81.1	73.5	79.2	78.8	76.6	76.2	71.6	82.3	76.0	76.9	77.3	79.4	78.3	79.0
27	BH 412062	74.7	82.7	86.3	83.6	81.8	74.3	82.7	81.0	85.1	75.5	79.7	84.9	79.6	79.4	68.9	80.8	75.3	78.1	78.3	85.6	82.0	79.9
28	MMHQPM-08-2014	74.3	82.4	86.3	85.8	82.2	77.7	82.1	81.5	81.4	76.0	79.7	82.9	79.8	78.4	70.2	83.0	75.3	78.3	77.6	80.7	79.1	79.7
29	DMRH 1410	75.3	83.8	83.3	83.1	81.4	73.1	81.7	83.5	80.4	71.5	78.0	81.2	75.5	76.8	73.3	80.6	75.7	77.2	78.5	81.0	79.7	78.7
30	KH K 85	76.7	83.6	85.2	85.9	82.8	76.5	80.9	82.0	83.5	75.0	79.6	83.2	79.0	78.4	69.9	81.5	75.4	77.9	77.5	82.3	79.9	79.8
31	DMRH 1421	74.7	81.5	84.0	82.9	80.7	76.8	79.1	82.5	82.5	75.5	79.3	80.8	75.5	76.1	81.1	82.4	77.0	78.8	79.3	77.9	78.6	79.4
	CHECKS																						
32	Bio 9637	74.3	82.6	82.6	84.1	80.9	72.9	82.1	82.0	86.4	77.5	80.2	81.2	77.6	80.3	67.6	81.0	77.7	77.5	79.5	85.8	82.6	79.7
33	HM10	75.7	82.3	83.0	84.3	81.3	71.1	80.1	82.5	81.0	74.0	77.7	79.5	80.2	76.0	73.4	81.2	74.9	77.5	79.7	77.1	78.4	78.6
	Loc. Mean	**75.0**	**81.9**	**85.2**	**82.1**	**81.0**	**75.2**	**80.8**	**81.4**	**82.9**	**76.7**	**79.3**	**82.2**	**78.7**	**78.5**	**75.0**	**81.0**	**76.5**	**78.6**	**77.0**	**82.1**	**79.5**	**79.5**
	C.D. (5%)	1.68	0.32	-	2.41	3.64	1.54	1.58	3.02	2.21	1.00	3.07	3.17	0.82	1.53	2.56	1.05	1.72	3.22	2.27	3.40	5.01	1.79
	C.V. (%)	1.38	0.24	-	1.80	3.20	1.25	1.20	2.27	1.26	0.80	3.09	2.37	0.64	1.19	2.09	0.78	1.38	3.59	1.81	2.54	3.09	3.34
	F (Prob)	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.08	0.00

Table No. 2 (Continued)

		STAND AT HARVEST ('000/ha)																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	BH 412067	79.2	58.9	77.8	66.1	70.5	62.5	63.2	72.6	75.0	81.3	70.9	72.9	66.0	60.1	51.1	58.3	52.1	60.1	62.5	75.0	68.8	66.7
2	PM 142096M	77.1	59.4	77.1	66.1	69.9	56.3	64.6	72.0	75.9	81.9	70.1	76.4	65.3	61.9	53.3	56.0	56.3	61.5	65.3	72.9	69.1	66.9
3	MMHQPM-09-2014	76.4	60.0	84.0	66.1	71.6	69.4	60.4	72.0	61.6	79.2	68.5	72.9	64.6	63.7	51.1	60.7	45.1	59.7	66.0	77.1	71.5	66.5
4	KNMH 4010131	80.6	58.9	49.3	65.0	63.4	70.1	62.5	64.9	-	78.5	69.0	61.1	64.6	55.4	47.8	60.7	53.5	57.2	62.5	66.7	64.6	59.0
5	DMRH 1420	76.4	58.9	78.5	65.0	69.7	69.4	64.6	77.4	53.6	72.9	67.6	66.7	66.7	60.7	46.7	58.9	52.1	58.6	61.8	63.2	62.5	64.3
6	MMHQPM-010-2014	71.5	58.3	83.3	66.1	69.8	77.8	59.0	73.2	68.8	83.3	72.4	76.4	66.0	57.1	52.2	61.9	54.2	61.3	64.6	72.2	68.4	67.4
7	IHQ 091	75.0	61.7	53.5	65.6	63.9	66.7	62.5	73.2	61.6	79.2	68.6	61.1	66.7	44.0	51.1	61.9	48.6	55.6	63.2	75.0	69.1	63.0
8	HKH 346	79.2	59.4	77.8	65.0	70.3	61.8	60.4	72.6	73.2	79.2	69.4	73.6	64.6	58.9	52.2	61.9	50.0	60.2	63.9	70.1	67.0	66.1
9	BH 412066	75.0	57.8	79.2	65.0	69.2	61.1	62.5	75.6	60.7	77.1	67.4	76.4	66.7	56.5	52.8	62.5	54.9	61.6	66.7	82.6	74.7	66.6
10	BH 412065	75.7	58.9	76.4	66.1	69.3	67.4	60.4	70.2	54.5	72.9	65.1	64.6	66.7	57.1	49.4	60.7	53.5	58.7	66.7	75.0	70.8	64.5
11	BLH 102	77.8	60.0	80.6	66.1	71.1	66.0	62.5	72.0	69.6	75.0	69.0	77.1	66.0	58.3	48.9	66.7	50.7	61.3	65.3	77.8	71.5	67.1
12	BH 412064	79.9	58.3	77.1	65.6	70.2	67.4	59.0	66.7	56.3	77.1	65.3	72.9	66.0	56.0	50.6	63.7	53.5	60.4	63.2	66.0	64.6	64.6
13	KH 518	80.6	60.6	79.9	66.7	71.9	68.8	61.1	73.2	67.9	83.3	70.9	78.5	66.0	64.3	52.2	63.7	50.7	62.6	63.9	81.3	72.6	68.4
14	IH 031	79.9	60.0	78.5	66.1	71.1	52.8	63.9	74.4	64.3	79.9	67.0	68.1	66.7	57.1	48.9	58.9	52.1	58.6	58.3	79.2	68.7	65.2
15	IHQ 092	79.2	57.8	72.9	66.1	69.0	63.9	60.4	75.0	63.4	79.2	68.4	77.1	65.3	53.6	48.9	66.1	52.1	60.5	59.7	63.9	61.8	65.0
16	DMRH 1422	78.5	61.1	84.7	64.4	72.2	60.4	62.5	73.8	51.8	69.4	63.6	66.7	66.0	56.0	43.3	59.5	57.6	58.2	64.6	68.1	66.3	64.0
17	HKH 345	70.8	58.9	36.8	66.1	58.2	72.2	58.3	71.4	-	70.8	68.2	57.6	66.7	53.6	47.2	58.9	50.7	55.8	66.0	71.5	68.8	61.1
18	BH 412044	72.2	60.0	78.5	66.1	69.2	62.5	64.6	73.8	54.5	73.6	65.8	74.3	66.0	53.6	52.2	61.9	54.9	60.5	66.7	73.6	70.1	65.2
19	BLH 101	72.2	57.2	77.1	66.1	68.2	72.9	63.9	72.0	73.2	82.6	72.9	78.5	66.7	57.7	50.6	62.5	51.4	61.2	63.9	77.1	70.5	67.4
20	MMHQPM-07-2014	78.1	57.2	79.2	65.6	70.0	67.4	63.2	73.2	69.6	83.3	71.3	75.0	66.7	60.1	52.2	67.3	52.8	62.3	61.8	64.6	63.2	66.9
21	DMRH 1419	79.9	59.4	72.2	66.1	69.4	64.6	63.9	72.0	58.9	69.4	65.8	72.2	66.7	51.8	46.1	-	56.3	58.6	64.6	68.8	66.7	60.9
22	BH 412055	80.6	60.6	78.5	66.1	71.4	72.2	62.5	73.2	68.8	80.6	71.4	68.1	66.7	52.4	46.1	60.7	48.6	57.1	62.5	67.4	64.9	65.6
23	CP .222	80.6	59.4	79.2	66.1	71.3	67.4	62.5	73.8	65.2	79.2	69.6	78.5	66.7	55.4	52.8	59.5	52.1	60.8	66.7	68.1	67.4	66.6
24	IM 8013	78.5	60.6	81.9	66.1	71.8	68.8	60.4	73.8	67.9	82.6	70.7	79.9	66.7	56.0	48.9	54.2	53.5	59.8	64.6	70.1	67.4	66.7
25	HT 1412081	74.3	60.6	84.7	66.1	71.4	67.4	60.4	75.0	73.2	81.3	71.4	72.9	66.7	61.3	46.7	61.9	52.8	60.4	66.7	72.9	69.8	67.3
26	MMHQPM-11-2014	72.2	57.8	71.5	66.1	66.9	71.5	61.8	63.7	45.5	83.3	65.2	68.8	66.7	54.2	47.8	60.7	52.1	58.4	67.4	61.1	64.2	63.1
27	BH 412062	72.2	58.9	36.8	63.3	57.8	62.5	59.7	77.4	47.3	66.7	62.7	66.7	66.7	40.5	47.2	59.5	52.8	55.6	63.9	70.8	67.4	59.6
28	MMHQPM-08-2014	70.8	58.3	79.2	66.1	68.6	68.1	61.1	72.0	63.4	79.9	68.9	70.8	66.0	63.7	45.0	58.3	50.7	59.1	63.2	67.4	65.3	64.9
29	DMRH 1410	76.4	60.6	77.1	64.4	69.6	70.8	64.6	72.6	56.3	73.6	67.6	66.0	66.0	57.7	49.4	60.1	52.8	58.7	64.6	71.5	68.1	65.0
30	KH K 85	77.8	59.4	81.9	66.7	71.5	66.7	64.6	72.6	62.5	74.3	68.1	68.1	66.0	61.3	52.2	60.1	52.8	60.1	63.9	77.1	70.5	66.3
31	DMRH 1421	79.2	59.4	70.1	66.7	68.9	67.4	58.3	70.8	50.0	68.1	62.9	63.2	66.7	58.9	51.1	63.7	55.6	59.9	66.7	60.4	63.5	63.3
	CHECKS																						
32	Bio 9637	81.3	61.1	75.7	66.7	71.2	68.8	64.6	75.0	62.5	79.2	70.0	74.3	66.7	57.1	51.7	63.1	54.9	61.3	66.7	71.5	69.1	67.1
33	HM10	79.9	58.3	75.7	66.1	70.0	63.2	62.5	76.8	73.2	83.3	71.8	75.0	66.7	57.1	51.1	64.3	52.1	61.0	65.3	67.4	66.3	66.9
	Loc. Mean	**76.9**	**59.3**	**74.1**	**65.8**	**69.0**	**66.5**	**62.0**	**72.7**	**62.9**	**77.6**	**68.0**	**71.3**	**66.2**	**56.8**	**49.7**	**61.2**	**52.5**	**59.3**	**64.3**	**71.1**	**67.7**	**65.1**
	C.D. (5%)	5.57	3.09	11.59	2.47	8.56	7.52	4.62	7.38	10.36	6.68	8.41	12.68	1.29	4.90	6.18	4.06	7.46	6.15	7.56	4.20	8.41	3.88
	C.V. (%)	4.44	3.19	9.59	2.31	8.83	6.93	4.56	6.22	8.20	5.28	9.89	10.91	1.20	5.30	7.63	4.19	8.70	9.10	7.20	3.62	6.09	8.84
	F (Prob)	0.00	0.35	0.00	0.86	0.17	0.00	0.11	0.18	0.00	0.00	0.11	0.04	0.01	0.00	0.12	0.00	0.66	0.10	0.93	0.00	0.41	0.00

Table No. 2 (Continued)

		DAYS TO 50% POLLEN SHED																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	BH 412067	98.7	137.3	82.7	127.0	111.4	129.3	68.7	122.3	119.5	116.3	111.2	82.3	55.7	74.7	79.0	66.3	52.7	68.4	97.3	91.0	94.2	94.2
2	PM 142096M	97.0	136.7	82.0	119.7	108.8	123.3	65.7	133.0	111.0	113.3	109.3	80.3	54.3	72.0	74.7	65.0	52.3	66.4	96.7	84.3	90.5	91.8
3	MMHQPM-09-2014	100.7	137.3	81.7	122.3	110.5	128.7	68.0	113.7	113.5	113.7	107.5	80.3	54.0	74.0	74.0	66.0	51.3	66.6	99.3	91.7	95.5	92.4
4	KNMH 4010131	97.7	140.0	84.0	128.0	112.4	130.3	68.0	123.7	-	117.0	109.8	82.3	55.0	73.3	79.0	68.7	52.3	68.4	98.7	89.0	93.8	92.9
5	DMRH 1420	99.0	137.0	82.0	124.3	110.6	129.3	68.0	120.0	116.0	116.3	109.9	80.3	54.0	72.7	79.0	65.3	53.0	67.4	98.3	97.7	98.0	93.7
6	MMHQPM-010-2014	101.0	137.0	81.7	123.7	110.8	129.7	66.7	120.7	118.0	115.0	110.0	81.7	55.3	74.0	74.0	64.7	53.0	67.1	98.0	92.3	95.2	93.3
7	IHQ 091	97.7	128.3	76.3	107.0	102.3	110.7	65.7	140.3	99.0	92.7	101.7	64.3	44.0	55.7	64.3	52.3	42.0	53.8	92.0	78.0	85.0	83.0
8	HKH 346	98.0	127.7	80.0	120.3	106.5	122.7	68.3	121.7	115.5	112.0	108.0	78.3	52.0	70.7	70.0	64.7	50.7	64.4	96.7	88.3	92.5	90.4
9	BH 412066	100.0	134.3	81.0	121.7	109.3	127.7	66.3	120.3	110.5	113.3	107.6	78.7	52.3	72.0	70.0	64.3	50.7	64.7	97.7	85.3	91.5	91.0
10	BH 412065	99.0	137.3	82.0	124.3	110.7	128.7	67.3	110.3	120.0	116.0	108.5	81.0	54.3	75.3	73.0	68.0	53.3	67.5	98.0	92.3	95.2	93.0
11	BLH 102	98.0	133.3	82.0	123.7	109.3	129.7	66.7	119.7	120.0	116.0	110.4	79.0	55.0	74.3	72.0	66.0	53.0	66.6	97.3	90.3	93.8	92.7
12	BH 412064	101.0	136.0	81.7	123.0	110.4	129.3	68.0	118.3	120.0	113.7	109.9	80.3	55.0	73.0	74.0	65.7	53.0	66.8	98.3	90.7	94.5	93.0
13	KH 518	99.0	135.3	80.0	121.3	108.9	123.3	67.7	102.3	112.0	113.7	103.8	78.0	54.0	72.7	74.0	62.7	50.3	65.3	96.3	90.7	93.5	90.2
14	IH 031	97.7	133.7	78.7	118.3	107.1	117.7	65.3	120.0	103.5	101.3	101.6	72.0	47.7	65.3	65.7	54.3	42.3	57.9	93.7	78.7	86.2	85.6
15	IHQ 092	98.3	127.0	76.3	109.0	102.7	114.7	65.7	120.3	100.5	93.7	99.0	64.0	43.0	56.0	62.0	52.0	42.7	53.3	92.7	79.3	86.0	82.2
16	DMRH 1422	97.3	131.7	79.7	124.7	108.3	128.3	68.7	111.0	120.5	112.0	108.1	79.0	54.0	71.0	72.0	64.3	50.0	65.1	94.0	84.3	89.2	90.7
17	HKH 345	99.3	134.0	79.7	119.7	108.2	126.7	67.0	113.0	-	112.3	104.8	79.7	52.0	70.7	68.0	60.0	50.7	63.5	96.7	89.7	93.2	88.7
18	BH 412044	91.7	141.3	84.3	124.3	110.4	124.7	67.7	120.0	118.5	115.7	109.3	80.0	55.3	72.7	77.0	65.7	52.7	67.2	97.3	90.3	93.8	92.9
19	BLH 101	99.0	136.7	79.7	121.7	109.3	127.7	66.3	122.7	113.0	113.3	108.6	80.7	53.7	72.7	72.0	64.3	51.0	65.7	97.0	90.3	93.7	91.9
20	MMHQPM-07-2014	99.0	134.7	81.3	120.7	108.9	127.3	67.0	116.7	111.5	109.7	106.4	77.7	52.7	71.0	72.0	62.0	49.7	64.2	94.0	90.3	92.2	90.4
21	DMRH 1419	101.7	128.0	81.3	123.0	108.5	129.7	65.3	118.7	119.0	114.3	109.4	78.7	52.3	73.7	77.0	-	52.7	66.9	97.3	90.3	93.8	93.9
22	BH 412055	99.7	140.0	79.7	123.3	110.7	124.7	67.7	121.3	112.0	113.0	107.7	81.7	55.7	73.7	74.0	65.0	53.3	67.2	97.3	90.7	94.0	92.5
23	CP .222	102.3	135.0	81.3	125.0	110.9	130.3	68.7	110.7	120.0	118.0	109.5	82.0	57.0	72.7	73.0	64.7	52.7	67.0	97.0	90.3	93.7	93.0
24	IM 8013	101.0	134.3	80.3	119.3	108.8	122.7	66.0	119.3	111.0	111.0	106.0	75.0	50.7	71.3	71.0	63.0	49.7	63.4	96.7	92.7	94.7	90.3
25	HT 1412081	95.7	136.0	81.0	121.0	108.4	124.3	68.0	119.3	115.0	111.7	107.7	78.3	53.3	71.3	73.0	64.3	51.3	65.3	97.3	91.3	94.3	91.3
26	MMHQPM-11-2014	99.7	140.0	84.3	125.3	112.3	128.7	68.7	110.7	119.5	117.0	108.9	83.3	54.3	78.0	79.0	65.7	53.3	68.9	99.3	93.7	96.5	94.1
27	BH 412062	100.0	133.7	81.3	119.7	108.7	126.7	65.7	113.0	118.0	111.7	107.0	78.0	52.7	72.0	74.0	64.0	52.3	65.5	98.0	88.7	93.3	91.1
28	MMHQPM-08-2014	102.0	135.7	81.0	121.0	109.9	127.7	69.0	116.0	115.5	113.0	108.2	80.3	55.0	72.7	75.0	65.3	51.7	66.7	99.0	91.7	95.3	92.4
29	DMRH 1410	100.0	137.3	82.3	125.3	111.3	129.3	68.3	119.3	114.5	115.7	109.4	80.0	55.3	74.7	80.0	64.7	53.3	68.0	98.3	90.7	94.5	93.5
30	KH K 85	99.0	133.7	80.0	120.7	108.3	122.3	66.0	119.3	115.0	112.0	106.9	76.3	51.0	70.0	70.0	59.0	50.0	62.7	96.3	90.0	93.2	90.0
31	DMRH 1421	101.0	138.7	81.7	123.7	111.3	126.3	68.3	115.0	116.0	115.7	108.3	79.7	52.0	73.3	75.0	63.7	53.3	66.2	98.0	90.7	94.3	92.5
	CHECKS																						
32	Bio 9637	103.0	133.7	82.3	125.7	111.2	127.7	68.0	119.0	118.5	116.3	109.9	82.0	55.0	77.3	80.0	65.3	53.0	68.8	97.3	88.7	93.0	93.7
33	HM10	100.0	140.7	80.0	119.0	109.9	121.3	65.7	114.3	113.0	111.3	105.1	78.3	53.0	72.0	79.0	64.7	53.7	66.8	98.0	83.7	90.8	91.0
	Loc. Mean	**99.2**	**135.3**	**81.0**	**121.7**	**109.3**	**125.8**	**67.2**	**118.4**	**114.5**	**112.4**	**107.6**	**78.6**	**53.1**	**71.7**	**73.5**	**63.5**	**51.1**	**65.3**	**97.0**	**89.0**	**93.0**	**91.3**
	C.D. (5%)	2.24	0.92	1.89	2.89	3.58	1.81	1.39	17.81	2.81	1.54	6.05	1.52	0.78	1.21	1.29	1.43	1.16	1.79	1.33	1.34	4.62	2.42
	C.V. (%)	1.39	0.42	1.43	1.46	2.33	0.88	1.27	9.23	1.17	0.84	4.50	1.19	0.90	1.03	1.07	1.35	1.39	2.40	0.84	0.92	2.44	3.93
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 2 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING KANP	KARN	LUDH	PANT	ZN 2 Mean	BAHR	BHUB	DHOL	RANC	VARA	ZN 3 Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	BH 412067	101.7	139.3	83.7	129.0	113.4	131.3	70.0	123.0	124.5	120.0	113.8	84.7	58.0	77.7	80.0	69.7	56.3	71.1	100.3	93.0	96.7	96.6
2	PM 142096M	103.3	137.7	82.7	123.0	111.7	126.0	67.7	133.0	116.0	116.0	111.7	79.7	56.3	73.3	78.0	68.7	55.3	68.6	100.0	86.3	93.2	94.3
3	MMHQPM-09-2014	104.7	139.3	84.3	125.0	113.3	130.7	70.7	113.7	118.5	118.7	110.4	82.3	56.0	75.7	75.0	72.3	54.3	69.3	102.3	93.7	98.0	95.1
4	KNMH 4010131	101.0	142.0	86.0	130.7	114.9	132.3	70.7	124.3	-	119.3	111.7	83.7	57.3	76.3	80.0	70.3	55.0	70.4	101.7	91.0	96.3	95.1
5	DMRH 1420	102.0	140.0	83.3	127.3	113.2	131.3	69.0	122.0	121.5	120.0	112.8	81.3	56.0	75.0	80.0	67.7	56.0	69.3	101.3	99.7	100.5	96.1
6	MMHQPM-010-2014	103.0	136.0	84.3	125.7	112.3	131.7	68.0	122.7	121.5	119.3	112.6	85.0	57.7	77.3	75.0	68.3	56.0	69.9	101.0	94.3	97.7	95.7
7	IHQ 091	103.7	131.3	74.0	109.7	104.7	112.7	68.0	119.0	103.5	97.3	100.1	65.7	46.0	56.7	65.3	55.0	45.0	55.6	95.0	80.0	87.5	84.0
8	HKH 346	102.0	131.7	81.7	123.0	109.6	124.7	70.3	124.0	120.0	115.3	110.9	79.3	54.0	71.0	71.0	68.7	53.7	66.3	100.3	90.3	95.3	93.0
9	BH 412066	104.0	136.3	83.0	124.3	111.9	129.7	68.0	123.3	116.0	117.3	110.9	79.7	54.3	74.0	71.0	66.3	53.7	66.5	100.7	87.3	94.0	93.5
10	BH 412065	103.7	139.3	84.0	128.0	113.8	130.7	69.0	113.3	124.5	121.0	111.7	83.3	56.3	78.7	74.0	70.7	56.3	69.9	101.0	94.3	97.7	95.8
11	BLH 102	102.3	135.3	84.0	127.0	112.2	131.7	69.3	122.7	125.0	120.0	113.7	80.0	57.0	77.3	73.0	69.7	55.7	68.8	100.3	92.3	96.3	95.5
12	BH 412064	105.0	138.0	83.7	126.0	113.2	131.3	69.0	120.3	124.0	116.7	112.3	81.0	58.0	75.7	75.0	68.3	56.0	69.0	101.3	92.7	97.0	95.4
13	KH 518	103.7	137.3	82.3	124.0	111.8	125.7	69.7	103.3	116.0	117.7	106.5	79.0	56.0	74.0	75.0	67.0	53.7	67.4	99.3	91.7	95.5	92.7
14	IH 031	102.3	135.7	76.0	121.3	108.8	119.7	67.3	123.3	108.0	106.3	104.9	74.0	49.7	66.0	66.7	57.0	45.0	59.7	97.0	80.7	88.8	88.0
15	IHQ 092	102.0	129.0	74.0	112.7	104.4	116.7	67.3	123.7	105.5	97.3	102.1	65.7	45.0	58.0	63.0	55.0	45.7	55.4	95.7	81.3	88.5	84.6
16	DMRH 1422	101.3	134.7	81.7	127.0	111.2	130.3	70.3	113.3	124.5	116.7	111.0	80.3	56.0	72.7	73.0	66.3	53.7	67.0	97.0	86.3	91.7	93.2
17	HKH 345	103.7	136.0	81.3	123.0	111.0	128.7	69.0	116.0	-	115.3	107.3	80.3	54.0	71.0	69.0	65.0	53.7	65.5	99.7	91.7	95.7	91.1
18	BH 412044	96.0	143.3	87.0	127.7	113.5	126.7	70.0	123.3	124.0	120.0	112.8	81.7	57.3	75.3	78.0	69.0	55.7	69.5	100.3	92.3	96.3	95.7
19	BLH 101	102.7	138.7	81.7	124.3	111.8	129.7	68.3	125.3	118.0	117.3	111.7	81.3	55.7	73.3	73.0	67.7	54.0	67.5	100.0	92.3	96.2	94.3
20	MMHQPM-07-2014	103.5	136.7	83.3	123.3	111.7	129.3	69.3	119.7	116.5	114.3	109.8	80.7	54.7	71.7	73.0	67.3	53.3	66.8	97.0	92.3	94.7	93.3
21	DMRH 1419	106.0	131.0	82.7	126.3	111.5	131.7	67.3	121.3	122.5	118.0	112.2	79.3	54.3	75.7	78.0	-	56.0	68.7	100.3	91.3	95.8	96.4
22	BH 412055	104.7	142.0	82.0	125.3	113.5	126.7	70.0	124.3	116.5	117.7	111.0	84.3	57.7	75.7	75.0	68.3	56.3	69.6	100.3	92.7	96.5	95.3
23	CP .222	107.0	137.0	83.0	126.7	113.4	132.3	70.0	113.7	122.5	120.7	111.8	83.0	59.0	74.0	64.0	66.3	56.0	67.1	100.0	91.7	95.8	94.5
24	IM 8013	104.7	136.3	82.3	122.3	111.4	124.7	68.0	122.0	116.5	114.3	109.1	76.7	52.7	72.3	72.0	65.3	53.0	65.3	99.7	93.7	96.7	92.7
25	HT 1412081	99.0	138.0	83.0	124.3	111.1	126.3	70.0	122.3	120.5	116.7	111.2	81.3	55.3	73.0	74.0	69.3	54.7	67.9	100.7	93.0	96.8	94.2
26	MMHQPM-11-2014	103.7	141.0	86.3	129.3	115.1	130.7	71.0	113.3	125.0	121.0	112.2	85.3	56.3	79.7	80.0	68.3	56.3	71.0	102.3	95.7	99.0	96.8
27	BH 412062	104.0	135.7	82.7	122.7	111.3	128.7	67.7	116.0	122.0	115.7	110.0	79.3	54.7	74.0	75.0	65.7	55.7	67.4	101.0	90.3	95.7	93.6
28	MMHQPM-08-2014	105.3	137.7	82.3	123.7	112.3	129.7	70.3	118.7	120.0	117.0	111.1	83.7	57.0	74.3	76.0	69.0	55.0	69.2	102.0	94.0	98.0	95.0
29	DMRH 1410	103.7	139.3	84.3	130.0	114.3	131.3	70.7	122.7	120.0	120.7	113.1	83.3	57.3	77.0	81.0	69.0	56.3	70.7	101.3	92.7	97.0	96.5
30	KH K 85	103.7	135.7	82.3	123.3	111.3	124.3	68.3	121.7	119.5	117.0	110.2	75.7	53.0	71.3	71.0	63.0	53.3	64.6	99.3	92.0	95.7	92.6
31	DMRH 1421	104.7	140.7	83.3	126.0	113.7	128.3	70.3	117.7	119.5	119.0	111.0	80.3	54.0	74.3	76.0	66.0	56.3	67.8	101.0	92.7	96.8	94.7
	CHECKS																						
32	Bio 9637	106.3	135.7	84.3	127.7	113.5	129.7	70.7	122.0	122.0	120.3	112.9	84.0	57.3	78.7	81.0	67.7	56.0	70.8	100.3	89.7	95.0	96.1
33	HM10	103.7	142.7	82.0	122.0	112.6	123.3	68.0	117.3	118.0	114.3	108.2	79.7	55.0	73.3	80.0	68.3	57.0	68.9	101.0	84.7	92.8	93.5
	Loc. Mean	**103.3**	**137.3**	**82.5**	**124.6**	**111.9**	**127.8**	**69.2**	**120.1**	**119.1**	**116.3**	**110.4**	**80.1**	**55.1**	**73.5**	**74.3**	**66.8**	**54.2**	**67.3**	**100.0**	**90.8**	**95.4**	**93.8**
	C.D. (5%)	2.30	0.92	2.17	2.68	3.60	1.83	1.35	13.56	2.82	1.55	5.10	1.91	0.84	1.33	4.96	2.13	1.12	2.16	1.29	1.27	4.69	2.30
	C.V. (%)	1.37	0.41	1.61	1.32	2.29	0.88	1.20	6.92	1.12	0.82	3.69	1.46	0.94	1.11	4.09	1.92	1.27	2.81	0.79	0.85	2.41	3.64
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 2 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK KANP	KARN	LUDH	ZN 2 Mean	BAHR	BHUB	DHOL	RANC	VARA	ZN 3 Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	BH 412067	146.0	175.0	111.0	144.0	163.7	109.0	151.7	159.0	153.3	147.3	116.7	98.0	112.7	120.0	107.7	93.7	108.1	130.7	131.3	131.0	130.0
2	PM 142096M	142.0	177.7	113.7	144.4	160.3	107.0	159.0	149.0	159.3	146.9	127.0	95.3	108.3	118.0	113.3	94.0	109.3	129.7	133.7	131.7	130.5
3	MMHQPM-09-2014	147.3	175.0	106.0	142.8	158.7	108.0	155.0	152.5	157.7	146.4	120.3	95.3	110.7	115.3	106.7	93.0	106.9	133.0	132.7	132.8	129.2
4	KNMH 4010131	143.3	177.3	114.0	144.9	154.0	109.0	152.7	-	155.3	142.8	129.0	98.3	111.3	120.0	111.0	94.0	110.6	131.3	132.7	132.0	128.9
5	DMRH 1420	147.3	173.7	110.0	143.7	162.7	107.0	157.3	157.5	155.7	148.0	125.7	95.3	110.0	120.0	107.3	94.0	108.7	131.3	135.3	133.3	130.6
6	MMHQPM-010-2014	146.7	171.3	111.3	143.1	157.7	107.0	156.3	156.0	153.7	146.1	123.0	97.7	112.3	115.3	106.0	94.0	108.1	130.7	126.7	128.7	129.1
7	IHQ 091	141.7	165.7	95.0	134.1	162.7	104.0	130.3	143.5	138.3	135.8	115.3	82.0	91.7	106.0	101.0	84.3	96.7	125.3	126.7	126.0	119.6
8	HKH 346	142.7	171.0	113.7	142.4	163.7	108.0	156.0	153.0	156.0	147.3	129.0	91.3	106.0	111.0	113.3	93.7	107.4	133.3	132.3	132.8	129.6
9	BH 412066	147.3	169.7	112.7	143.2	163.7	109.0	154.3	148.0	156.3	146.3	127.0	78.7	109.0	111.7	106.7	93.0	104.3	130.7	130.0	130.3	128.0
10	BH 412065	148.3	174.7	114.3	145.8	163.7	108.0	160.0	157.0	159.3	149.6	127.0	95.3	113.7	114.0	113.3	95.3	109.8	131.0	132.7	131.8	131.7
11	BLH 102	148.3	170.3	111.0	143.2	160.7	107.0	157.3	159.0	158.7	148.5	121.0	96.3	112.3	113.0	109.3	94.0	107.7	130.7	132.7	131.7	130.1
12	BH 412064	147.3	171.7	113.3	144.1	164.3	109.0	149.0	160.0	156.3	147.7	122.3	98.0	110.7	115.3	109.7	94.3	108.4	131.7	127.3	129.5	130.0
13	KH 518	146.7	177.0	111.7	145.1	155.7	108.0	154.7	148.5	153.7	144.1	127.7	96.3	109.0	115.3	106.0	93.3	107.9	130.0	131.3	130.7	129.1
14	IH 031	141.7	166.0	105.0	137.6	158.3	105.0	146.3	144.0	136.7	138.1	119.0	87.3	101.0	106.0	101.0	84.7	99.8	127.7	123.3	125.5	122.1
15	IHQ 092	142.7	165.3	104.0	137.3	162.3	103.0	139.0	143.0	128.3	135.1	119.7	82.7	93.0	104.0	101.0	84.7	97.5	126.7	126.0	126.3	120.3
16	DMRH 1422	146.3	173.7	112.7	144.2	163.7	107.0	153.3	150.0	155.3	145.9	121.0	94.3	107.7	113.0	105.3	93.0	105.7	127.7	128.3	128.0	128.3
17	HKH 345	142.3	169.3	112.7	141.4	162.0	109.0	155.7	-	154.7	145.3	123.0	92.0	106.0	109.7	107.0	92.7	105.1	129.7	131.3	130.5	126.5
18	BH 412044	146.0	175.7	112.3	144.7	160.7	108.0	159.0	156.5	155.0	147.8	125.7	97.7	110.3	115.7	110.3	93.3	108.8	130.7	132.3	131.5	130.6
19	BLH 101	144.7	169.0	106.0	139.9	159.3	108.7	153.7	150.5	150.7	144.6	119.7	95.7	108.3	113.0	102.0	93.7	105.4	130.0	131.7	130.8	127.3
20	MMHQPM-07-2014	146.5	170.0	111.0	142.5	163.7	104.0	153.3	148.5	151.3	144.2	120.3	95.0	106.7	113.0	107.7	91.7	105.7	127.3	132.3	129.8	127.6
21	DMRH 1419	149.0	175.3	106.0	143.4	161.7	109.0	154.7	157.5	153.7	147.3	122.3	92.3	110.7	119.0	-	94.3	107.7	130.7	134.3	132.5	131.4
22	BH 412055	146.3	178.3	78.7	134.4	158.7	107.7	155.7	154.5	153.0	145.9	123.7	98.7	110.7	115.0	112.0	94.0	109.0	130.0	131.3	130.7	128.0
23	CP .222	144.3	171.0	110.0	141.8	161.7	107.0	158.0	158.5	158.0	148.6	125.0	99.3	109.0	114.0	103.0	94.0	107.4	131.3	132.0	131.7	129.8
24	IM 8013	150.7	171.0	112.7	144.8	162.7	105.0	155.7	149.0	157.3	145.9	121.7	90.7	107.3	112.0	110.0	91.7	105.6	129.7	132.7	131.2	128.7
25	HT 1412081	141.0	178.3	115.0	144.8	161.7	109.3	159.7	153.5	157.7	148.4	124.3	95.3	108.0	114.0	113.7	93.3	108.1	130.7	132.0	131.3	130.5
26	MMHQPM-11-2014	140.3	176.3	112.7	143.1	162.3	108.0	159.0	158.0	155.3	148.5	125.0	96.3	114.7	120.0	107.3	94.3	109.6	132.0	134.7	133.3	131.0
27	BH 412062	146.0	173.0	113.3	144.1	162.7	106.0	147.7	158.5	157.0	146.4	122.3	94.7	109.0	115.3	106.3	94.0	106.9	130.3	131.3	130.8	129.2
28	MMHQPM-08-2014	149.7	173.0	109.7	144.1	160.0	107.0	154.0	154.5	154.0	145.9	118.0	98.0	109.3	116.3	110.3	94.7	107.8	134.3	132.7	133.5	129.7
29	DMRH 1410	144.0	175.7	108.7	142.8	164.3	109.3	158.3	153.5	155.3	148.2	122.3	98.0	112.0	121.0	107.0	94.7	109.2	133.0	130.7	131.8	130.5
30	KH K 85	146.7	168.7	108.0	141.1	163.3	107.0	153.0	152.5	152.0	145.6	119.0	91.7	106.3	111.7	102.3	92.7	103.9	129.0	131.3	130.2	127.2
31	DMRH 1421	142.0	174.0	110.7	142.2	162.7	107.0	154.0	154.5	154.3	146.5	121.0	93.0	109.3	116.3	103.7	93.7	106.2	131.0	131.7	131.3	128.7
	CHECKS																					
32	Bio 9637	150.3	177.7	113.0	147.0	157.7	106.0	156.3	155.0	156.3	146.3	127.0	97.7	113.7	121.0	109.7	93.7	110.4	129.3	131.0	130.2	131.0
33	HM10	146.0	174.7	113.3	144.7	155.0	109.0	154.3	151.0	154.7	144.8	123.7	94.0	108.3	120.0	109.0	95.3	108.4	131.3	127.0	129.2	129.2
	Loc. Mean	**145.5**	**172.9**	**109.5**	**142.6**	**161.1**	**107.3**	**153.8**	**153.1**	**153.5**	**145.6**	**122.9**	**94.0**	**108.5**	**114.7**	**107.5**	**92.9**	**106.7**	**130.4**	**131.0**	**130.7**	**128.6**
	C.D. (5%)	2.33	0.85	17.43	7.45	2.92	1.81	7.83	3.41	2.10	4.82	4.69	6.70	1.33	1.39	3.06	1.87	3.11	3.10	3.99	3.51	2.64
	C.V. (%)	0.98	0.30	9.76	3.20	1.11	1.04	3.12	1.06	0.84	2.64	2.34	4.37	0.75	0.74	1.72	1.23	2.56	1.46	1.87	1.32	2.96
	F (Prob)	0.00	0.00	0.24	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 2 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm) KANP	KARN	LUDH	PANT	ZN 2 Mean	BAHR	BHUB	DHOL	RANC	VARA	ZN 3 Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	BH 412067	188.3	165.0	203.3	222.3	194.8	210.9	200.0	169.0	176.1	186.0	188.4	192.5	211.4	181.7	175.0	233.3	154.5	191.4	264.3	190.7	227.5	195.6
2	PM 142096M	195.7	181.7	218.3	255.3	212.8	202.6	216.3	183.3	184.6	199.3	197.2	210.0	217.2	212.0	150.0	207.7	171.5	194.7	263.7	192.0	227.8	203.6
3	MMHQPM-09-2014	201.7	151.7	198.3	236.3	197.0	200.6	213.0	188.3	175.3	197.7	195.0	190.0	213.3	180.3	181.7	220.7	165.1	191.8	263.7	184.0	223.8	197.7
4	KNMH 4010131	187.0	130.0	203.3	244.7	191.3	205.1	220.3	184.0	-	189.0	199.6	203.0	212.0	187.7	175.0	227.0	168.3	195.5	269.3	182.0	225.7	199.2
5	DMRH 1420	186.7	185.0	221.7	259.7	213.3	208.3	229.7	194.3	182.8	197.0	202.4	201.5	222.1	201.7	175.0	236.7	173.5	201.7	247.3	190.0	218.7	206.6
6	MMHQPM-010-2014	193.3	180.0	196.7	232.7	200.7	207.9	233.7	187.3	170.0	220.0	203.8	204.0	243.6	198.0	173.3	228.0	173.5	203.4	249.0	196.3	222.7	205.1
7	IHQ 091	199.7	80.0	148.3	155.7	145.9	195.4	159.7	109.7	177.1	111.0	150.6	132.0	193.6	119.0	148.3	182.0	157.4	155.4	209.0	163.0	186.0	155.3
8	HKH 346	180.0	171.7	201.7	247.7	200.3	202.1	209.0	183.3	174.7	193.7	192.6	179.5	216.5	203.3	160.0	210.3	170.1	190.0	262.3	199.7	231.0	198.0
9	BH 412066	197.0	211.7	206.7	236.7	213.0	203.1	228.3	172.3	173.2	201.0	195.6	205.5	219.1	190.0	178.3	228.0	179.2	200.0	265.3	194.0	229.7	205.3
10	BH 412065	180.0	201.7	195.0	261.7	209.6	191.4	212.3	173.7	168.2	184.3	186.0	182.0	218.8	183.7	160.0	216.7	156.7	186.3	259.3	189.3	224.3	196.2
11	BLH 102	177.3	210.0	200.0	239.3	206.7	213.6	231.7	198.3	175.4	207.7	205.3	198.0	228.1	201.7	205.0	230.7	160.0	203.9	259.0	176.3	217.7	206.6
12	BH 412064	201.7	158.3	198.3	244.7	200.8	192.6	210.3	170.3	156.4	204.3	186.8	198.5	212.8	184.3	165.0	214.3	161.6	189.4	259.3	169.3	214.3	194.3
13	KH 518	198.0	161.7	176.7	231.7	192.0	197.0	208.7	147.3	173.0	185.7	182.3	172.5	201.6	160.0	145.0	193.3	156.2	171.4	266.0	192.7	229.3	186.3
14	IH 031	177.3	116.7	161.7	209.0	166.2	182.6	189.3	151.7	175.9	139.3	167.8	159.5	194.6	154.0	148.3	205.3	169.2	171.8	257.7	146.0	201.8	172.8
15	IHQ 092	191.7	170.0	140.0	149.7	162.8	184.3	171.3	116.0	165.1	102.0	147.7	137.0	198.8	137.3	160.0	186.0	145.0	160.7	260.7	164.7	212.7	163.5
16	DMRH 1422	199.7	188.3	206.7	224.7	204.8	234.7	209.3	177.3	177.9	187.7	197.4	185.5	202.8	190.0	186.7	225.3	169.5	193.3	264.0	165.0	214.5	199.7
17	HKH 345	185.7	165.0	165.0	225.7	185.3	181.0	197.7	169.3	-	168.7	179.2	154.0	192.7	174.3	171.7	200.3	165.3	176.4	269.0	174.0	221.5	185.0
18	BH 412044	200.7	150.0	210.0	207.7	192.1	170.7	211.0	154.0	157.1	177.7	174.1	170.5	197.8	166.3	153.3	227.0	157.2	178.7	251.0	178.3	214.7	184.7
19	BLH 101	190.7	173.3	216.7	256.0	209.2	207.0	219.7	177.7	169.2	188.0	192.3	199.0	217.7	188.3	181.7	224.7	173.5	197.5	254.3	171.7	213.0	200.5
20	MMHQPM-07-2014	185.5	175.0	180.0	230.7	192.8	192.4	214.0	185.0	166.1	184.0	188.3	159.0	214.3	173.7	143.3	218.3	160.3	178.2	259.0	163.3	211.2	188.5
21	DMRH 1419	199.7	158.3	190.0	227.3	193.8	205.3	218.7	178.3	170.0	178.7	190.2	206.0	203.1	191.7	163.3	-	172.3	187.3	270.7	172.7	221.7	194.1
22	BH 412055	180.0	150.0	180.0	174.3	171.1	171.6	195.3	151.0	163.5	146.7	165.6	171.5	197.3	171.7	155.0	212.7	149.2	176.2	259.0	183.3	221.2	177.2
23	CP .222	197.0	186.7	175.0	241.7	200.1	193.7	215.3	174.0	160.8	173.7	183.5	175.0	215.5	175.3	163.3	215.0	167.9	185.4	254.3	170.0	212.2	191.4
24	IM 8013	188.3	156.7	178.3	238.3	190.4	201.1	225.3	181.7	171.5	189.0	193.7	192.0	216.3	169.7	165.0	217.7	177.1	189.6	259.3	167.3	213.3	193.8
25	HT 1412081	195.7	158.3	193.3	241.7	197.3	187.7	207.7	169.7	163.4	184.3	182.6	187.5	215.8	190.0	163.3	215.3	157.5	188.2	271.0	197.7	234.3	194.1
26	MMHQPM-11-2014	201.7	156.7	190.0	227.3	193.9	193.9	224.7	187.0	165.6	188.7	192.0	203.0	243.2	168.0	183.3	223.0	163.3	197.3	260.7	186.0	223.3	198.0
27	BH 412062	187.0	160.0	198.3	221.3	191.7	189.1	201.0	173.0	171.9	182.7	183.5	185.5	213.0	176.0	155.0	221.3	166.7	186.3	252.3	194.0	223.2	191.1
28	MMHQPM-08-2014	186.7	168.3	185.0	239.3	194.8	195.8	191.7	160.7	167.3	156.7	174.4	197.0	197.5	168.7	141.7	217.3	151.7	179.0	259.0	158.3	208.7	184.9
29	DMRH 1410	203.3	170.0	196.7	240.0	202.5	198.2	209.7	165.3	169.2	191.0	186.7	187.0	226.1	184.7	175.0	213.3	158.4	190.7	257.7	174.0	215.8	195.3
30	KH K 85	199.0	168.3	170.0	237.0	193.6	178.3	186.0	176.0	167.9	182.0	178.0	159.0	190.0	159.0	131.7	203.7	160.1	167.2	264.0	175.0	219.5	182.8
31	DMRH 1421	205.0	161.7	195.0	251.3	203.3	206.9	204.0	176.7	175.3	201.3	192.8	204.5	227.4	184.0	156.7	218.0	174.6	194.2	255.7	168.3	212.0	198.0
	CHECKS																						
32	Bio 9637	198.3	158.3	231.7	247.3	208.9	206.9	228.7	188.3	164.1	204.0	198.4	198.0	206.9	194.3	173.3	233.0	170.0	195.9	264.3	190.0	227.2	203.4
33	HM10	192.3	168.3	208.3	234.7	200.9	201.2	214.0	170.7	176.4	191.0	190.7	185.5	215.9	199.3	165.0	227.3	163.7	192.8	262.3	203.3	232.8	198.8
	Loc. Mean	**192.5**	**165.1**	**192.1**	**230.1**	**194.9**	**197.4**	**209.3**	**171.1**	**170.5**	**181.6**	**186.2**	**184.4**	**212.0**	**179.4**	**164.5**	**216.7**	**164.2**	**186.7**	**258.9**	**179.5**	**219.2**	**192.3**
	C.D. (5%)	6.27	6.00	27.66	16.49	24.00	28.50	17.19	16.61	19.81	11.75	15.43	9.20	7.98	17.66	26.82	21.10	10.52	12.38	15.59	9.82	21.97	8.67
	C.V. (%)	2.00	2.23	8.82	4.39	8.77	8.85	5.03	5.95	5.52	3.97	6.62	3.06	2.31	6.04	10.00	5.88	3.93	5.82	3.69	3.36	4.92	6.69
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00

Table No. 2 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm) KANP	KARN	LUDH	PANT	ZN 2 Mean	BAHR	BHUB	DHOL	RANC	VARA	ZN 3 Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	BH 412067	65.0	80.0	120.0	96.0	90.3	99.8	98.3	83.7	82.7	85.0	89.9	92.5	122.0	79.3	66.7	115.0	81.5	92.8	113.8	86.0	99.9	92.2
2	PM 142096M	77.7	83.3	105.0	105.0	92.8	74.3	103.3	73.3	74.1	88.3	82.7	91.0	120.0	87.3	58.3	89.0	89.7	89.2	120.6	103.3	112.0	90.8
3	MMHQPM-09-2014	64.7	71.7	126.7	108.7	92.9	107.8	118.3	101.7	79.2	98.7	101.1	102.0	112.1	92.3	91.7	109.3	91.9	99.9	122.1	103.3	112.7	100.1
4	KNMH 4010131	73.7	45.0	153.3	106.3	94.6	86.4	104.3	83.3	-	84.3	89.6	92.5	118.1	87.0	71.7	105.0	91.9	94.4	118.6	87.0	102.8	94.3
5	DMRH 1420	62.7	96.7	123.3	122.3	101.3	102.2	118.3	87.3	81.0	100.3	97.8	94.0	122.7	96.3	83.3	114.0	94.3	100.8	112.2	102.7	107.4	100.8
6	MMHQPM-010-2014	72.3	85.0	128.3	115.0	100.2	95.0	112.7	90.0	79.9	106.7	96.9	108.0	138.6	96.7	85.0	113.3	91.1	105.5	118.8	96.3	107.6	101.9
7	IHQ 091	82.3	30.0	53.3	47.3	53.3	85.6	70.3	47.3	79.6	36.7	63.9	55.5	94.1	38.3	70.0	88.0	81.7	71.3	95.5	75.3	85.4	66.5
8	HKH 346	92.7	91.7	110.0	112.3	101.7	101.5	99.3	119.7	76.2	98.3	99.0	75.5	112.8	94.3	68.3	95.7	83.7	88.4	118.8	106.7	112.7	97.5
9	BH 412066	91.7	111.7	125.0	107.7	109.0	91.6	113.7	70.3	71.8	102.7	90.0	95.0	120.3	91.0	81.7	113.7	88.9	98.4	117.2	103.3	110.3	99.8
10	BH 412065	100.0	95.0	116.7	121.3	108.3	81.4	111.7	79.3	77.9	93.3	88.7	85.0	121.1	88.3	80.0	106.3	92.1	95.5	120.4	78.7	99.5	97.0
11	BLH 102	86.7	108.3	120.0	118.7	108.4	97.0	125.7	101.0	83.1	103.7	102.1	105.5	130.4	100.3	100.0	117.7	96.6	108.4	117.2	75.7	96.4	105.1
12	BH 412064	100.3	100.0	128.3	118.0	111.7	91.3	114.3	86.3	73.7	103.7	93.9	105.0	122.6	97.0	85.0	107.7	89.9	101.2	113.7	73.7	93.7	100.6
13	KH 518	102.0	76.7	96.7	104.7	95.0	80.9	101.3	74.0	67.7	89.7	82.7	84.0	110.4	76.7	60.0	90.3	86.7	84.7	125.4	85.7	105.6	89.0
14	IH 031	98.0	55.0	91.7	86.3	82.8	85.7	90.0	71.0	80.6	68.3	79.1	74.5	103.9	66.3	65.0	98.3	82.7	81.8	113.7	67.0	90.4	82.2
15	IHQ 092	92.7	71.7	61.7	45.3	67.8	66.3	83.0	53.3	75.9	65.3	68.8	63.5	114.8	53.7	80.0	79.0	79.5	78.4	115.4	73.3	94.4	75.0
16	DMRH 1422	98.7	80.0	125.0	98.0	100.4	91.7	113.0	80.3	82.3	98.3	93.1	91.0	119.0	85.7	86.7	115.3	97.0	99.1	120.2	83.3	101.8	98.0
17	HKH 345	87.3	91.7	98.3	104.3	95.4	82.5	100.3	82.3	-	90.3	88.9	70.0	111.2	75.0	86.7	108.3	84.4	89.3	118.9	88.3	103.6	92.5
18	BH 412044	97.0	75.0	103.3	99.7	93.7	73.7	107.3	72.3	77.3	90.3	84.2	77.5	112.9	75.3	75.0	114.0	86.3	90.2	114.2	82.3	98.3	90.2
19	BLH 101	102.3	80.0	118.3	115.7	104.1	97.8	112.7	84.7	70.5	86.7	90.5	90.0	117.4	86.0	86.7	113.3	90.3	97.3	113.7	75.0	94.4	96.5
20	MMHQPM-07-2014	98.0	80.0	115.0	120.7	103.4	119.3	117.7	94.0	82.8	101.7	103.1	78.0	126.2	90.3	71.7	103.0	85.6	92.5	124.1	74.3	99.2	99.0
21	DMRH 1419	99.0	78.3	118.3	94.7	97.6	73.5	113.7	89.0	69.8	83.7	85.9	99.5	110.0	90.0	68.3	-	93.1	92.2	115.6	81.0	98.3	92.3
22	BH 412055	92.7	65.0	98.3	67.7	80.9	79.6	93.0	65.7	72.7	70.7	76.3	75.5	110.9	69.3	66.7	98.0	80.5	83.5	118.9	86.3	102.6	83.0
23	CP .222	91.7	90.0	95.0	88.7	91.3	75.3	106.3	79.0	74.0	80.3	83.0	86.0	108.8	75.7	75.0	103.0	88.4	89.5	112.1	73.7	92.9	88.4
24	IM 8013	65.0	63.3	91.7	94.7	78.7	76.2	104.3	85.0	77.3	85.3	85.6	84.5	106.2	66.3	68.3	99.0	85.1	84.9	122.2	74.3	98.3	85.2
25	HT 1412081	77.7	70.0	106.7	112.0	91.6	88.0	99.7	75.7	80.7	86.7	86.1	94.5	120.3	83.3	70.0	95.0	88.3	91.9	120.6	103.3	112.0	92.5
26	MMHQPM-11-2014	64.7	70.0	113.3	96.0	86.0	91.0	109.7	88.0	67.9	87.0	88.7	105.5	126.9	92.3	78.3	109.0	88.7	100.1	114.1	86.3	100.2	93.5
27	BH 412062	73.7	70.0	123.3	94.0	90.2	68.2	100.3	80.0	72.9	94.3	83.2	82.5	112.8	79.7	65.0	116.7	87.3	90.6	117.0	101.7	109.3	90.5
28	MMHQPM-08-2014	87.0	80.0	110.0	112.3	97.3	101.0	102.0	79.3	71.7	79.3	86.7	97.5	110.9	82.7	58.3	111.3	81.1	90.3	115.4	79.3	97.4	91.7
29	DMRH 1410	85.3	83.3	121.7	113.3	100.9	94.0	118.7	86.0	71.8	94.3	93.0	96.0	127.0	93.7	90.0	109.7	91.8	101.4	115.4	93.3	104.4	99.1
30	KH K 85	78.3	80.0	96.7	106.3	90.3	80.5	81.7	80.0	72.3	88.7	80.6	72.5	106.7	60.7	53.3	98.0	87.6	79.8	122.3	82.3	102.3	85.2
31	DMRH 1421	88.0	81.7	120.0	115.3	101.3	103.2	109.0	89.3	81.5	97.3	96.1	99.5	128.3	86.0	66.7	122.0	92.0	99.1	123.7	81.0	102.4	99.1
	CHECKS																						
32	Bio 9637	91.0	75.0	128.3	120.7	103.8	93.0	115.7	88.3	73.0	98.3	93.7	97.5	120.5	93.0	78.3	119.3	91.7	100.1	119.1	93.3	106.2	99.8
33	HM10	94.3	86.7	121.7	97.3	100.0	82.2	105.0	80.7	74.7	94.3	87.4	92.5	122.2	94.0	70.0	111.7	84.1	95.7	115.5	105.0	110.3	96.0
	Loc. Mean	**85.9**	**78.8**	**111.1**	**102.0**	**94.4**	**88.4**	**105.3**	**81.9**	**76.0**	**88.9**	**88.2**	**88.3**	**117.0**	**82.5**	**74.6**	**105.9**	**88.0**	**92.7**	**117.2**	**86.7**	**102.0**	**92.9**
	C.D. (5%)	4.15	3.43	23.15	10.12	19.36	23.48	13.67	19.54	15.06	11.70	10.79	9.36	5.45	10.24	23.36	12.84	6.84	8.45	12.43	8.01	16.91	6.65
	C.V. (%)	2.96	2.67	12.78	6.08	14.60	16.28	7.96	14.64	9.40	8.07	9.77	6.50	2.86	7.60	19.20	7.31	4.77	8.00	6.50	5.66	8.14	10.62
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.69	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.10	0.00	0.19	0.00

TABLE No. 3 **Performance of late maturing experimental hybrids at Kanpur, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Karimnagar, Kolhapur, Mandya, Vagarai, Banswara, Godhra in AVT1 Trial No. 4 (AVT- Late) during Rabi (2014-15)**

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																					
Sl										ZN 2												ZN 3	
No	PEDIGREE	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R
1	HTMH 5108	8806	14	10056	3	11398	16	14636	19	11224	15	8968	7	6607	9	10701	4	6737	13	10648	6	8732	7
2	IM 8222	9350	11	8958	15	16390	1	18110	5	13202	2	9358	6	7402	2	8944	17	7839	7	12696	1	9248	2
3	GK 3118	8244	20	10040	5	9072	22	16438	10	10949	18	6620	14	6771	7	8849	18	6277	19	10283	11	7760	14
4	Rasi 950	9943	5	8900	16	14278	3	16837	7	12489	5	6145	17	6949	5	12135	1	6875	11	9883	12	8397	10
5	CSM1	9503	7	9339	10	11727	14	14788	17	11339	14	7516	10	5477	21	8732	19	6380	17	9591	14	7539	17
6	KH 3021	8689	15	8756	18	12397	10	16061	13	11476	12	11214	1	5449	22	9640	10	6904	10	10406	9	8723	9
7	CP 111	8373	18	10292	1	10813	17	15115	15	11148	17	5945	19	6665	8	9868	8	6676	14	8716	19	7574	15
8	HTMH 5202	10488	2	8841	17	11939	11	19556	1	12706	3	8508	8	6446	11	9287	14	8680	1	11234	3	8831	5
9	KH 2192	9424	10	9837	6	11871	12	16078	12	11803	8	7446	11	5854	18	10668	5	5715	23	9602	13	7857	13
10	JH 8837	9987	4	8175	20	9931	20	14743	18	10709	20	6344	16	6298	14	7615	23	6864	12	8743	17	7173	20
11	CP 333	9146	13	9125	13	12797	8	17997	6	12266	6	9394	5	6954	4	11363	2	7929	6	9314	15	8991	3
12	GK 3155	7939	21	10211	2	14067	4	18358	3	12644	4	10114	3	5819	19	9368	13	6112	21	10559	7	8395	11
13	CP 999	9475	9	9252	11	15390	2	18796	2	13228	1	8463	9	6384	13	9517	11	7015	9	10507	8	8377	12
14	KMH 1411	8572	16	9090	14	12888	6	15659	14	11552	11	7336	13	6232	15	11191	3	7981	4	11650	2	8878	4
15	JH 293	10415	3	8121	21	10015	19	12627	22	10295	22	4414	22	5604	20	7881	21	6529	16	6897	23	6265	23
16	CP 838	9174	12	9674	7	9817	21	16147	11	11203	16	10269	2	6084	17	10638	6	6354	18	10346	10	8738	6
17	DMRH1308	9482	8	7742	22	11762	13	16440	9	11356	13	4954	21	6103	16	9788	9	8267	3	8720	18	7566	16
18	X35F880	11089	1	7317	23	10039	18	18339	4	11696	9	10093	4	7852	1	9453	12	7955	5	10908	4	9252	1
19	Rasi 393	9701	6	9194	12	12739	9	14913	16	11637	10	5042	20	6772	6	9124	15	6599	15	9189	16	7345	19
20	Rasi 864	8271	19	9439	9	13890	5	16557	8	12039	7	7428	12	7068	3	10151	7	8318	2	10659	5	8725	8
	CHECKS																						
21	Seedtech 2324	7395	22	9458	8	12881	7	13946	21	10920	19	5982	18	6421	12	9112	16	7436	8	8691	20	7528	18
22	Bio 9681	8388	17	10043	4	6817	23	11868	23	9279	23	4386	23	5423	23	8340	20	6086	22	8220	21	6491	22
23	Buland	7230	23	8393	19	11614	15	14176	20	10353	21	6493	15	6461	10	7676	22	6198	20	7615	22	6889	21
	Location Mean	**9091**		**9141**		**11936**		**16008**		**11544**		**7497**		**6395**		**9567**		**7032**		**9786**		**8055**	
	C.D. (5%)	563		245		1599		1776		1046		1126		360		2674		1376		731		1254	
	C.V. (%)	3.76		1.63		8.14		6.74		-		9.12		3.42		16.97		11.89		4.53		-	
	F (Prob)	0		0		0		0				0		0		0.086		0.001		0			
	Plot Size	9.6		12		9.6		12		-		9.6		9.6		11.2		5.6		9.6		-	
	AGRONOMY DATA																						
	Sowing Date	8-12		22-11		4-02		2-12		-		23-11		10-12		27-11		6-12		23-11		-	
	Harvest Date	15-05		26-05		9-06		29-05		-		11-05		30-04		8-06		6-06		13-05		-	
	Irrigation Nos	4		9		12		6		-		5		-		3		6		3		-	
	Ferilizer Applied N	120		150		70		120		-		150		120		150		140		150		-	
	Ferilizer Applied P	60		60		24		60		-		75		60		70		60		75		-	
	Ferilizer Applied K	50		60		12		40		-		60		60		60		40		60		-	

TABLE No. 3 **(Cont…)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE ARBH	R	COIM	R	KARI	R	KOLH	R	MAND	R	VAGA	R	ZN 4 MEAN	R	BANS	R	GODH	R	ZN 5 MEAN	R	OV'L MEAN	R
1	HTMH 5108	11936	2	11778	11	8895	14	8786	2	9644	6	8406	3	9907	1	10019	4	6282	14	8151	9	9665	9
2	IM 8222	9493	10	13056	5	9942	6	7845	9	8804	13	6820	15	9327	9	9055	11	6638	12	7847	14	10041	2
3	GK 3118	11221	5	9613	19	10597	1	5278	23	10323	3	7173	8	9034	13	10400	3	5693	20	8046	10	8994	16
4	Rasi 950	8569	14	10008	18	8812	15	6656	19	9648	5	7300	6	8499	17	8383	18	5396	22	6890	22	9219	13
5	CSM1	8239	18	8974	23	7768	20	7634	12	7345	22	5339	22	7550	20	9152	7	6264	15	7708	15	8457	20
6	KH 3021	8849	12	12068	8	8027	17	7809	10	10476	2	7077	10	9051	11	7921	21	8052	7	7986	11	9400	11
7	CP 111	8363	16	12450	7	9166	12	8324	6	8497	16	7452	5	9042	12	9134	8	9644	2	9389	2	9147	14
8	HTMH 5202	9508	9	11997	9	9928	7	8765	3	9477	8	6694	17	9395	8	7917	22	5943	18	6930	21	9718	7
9	KH 2192	8986	11	13035	6	9567	9	7664	11	9345	10	8551	2	9525	6	11049	2	9423	3	10236	1	9654	10
10	JH 8837	11216	6	11152	14	8380	16	6448	21	6855	23	7080	9	8522	15	8973	12	6062	17	7517	18	8522	19
11	CP 333	8295	17	14020	1	10204	4	8734	4	10552	1	6933	14	9790	4	9406	5	8667	5	9036	4	10049	1
12	GK 3155	8183	19	11876	10	10480	2	8407	5	9561	7	7042	11	9258	10	8560	15	9923	1	9241	3	9799	4
13	CP 999	8729	13	13189	3	8963	13	11767	1	7996	18	6819	16	9577	5	7949	20	6244	16	7096	20	9791	5
14	KMH 1411	7913	20	9343	22	9367	10	8213	7	8971	12	6275	19	8347	18	8896	13	8617	6	8756	6	9306	12
15	JH 293	4612	23	10101	17	7684	21	7182	16	7874	19	5769	21	7204	22	7967	19	7233	9	7600	17	7701	22
16	CP 838	11436	4	13348	2	10285	3	7956	8	9114	11	7283	7	9904	2	12165	1	5651	21	8908	5	9749	6
17	DMRH1308	10470	8	11443	13	9299	11	7527	13	8311	17	6935	13	8997	14	8430	17	8699	4	8564	7	9081	15
18	X35F880	12419	1	11572	12	9981	5	7462	14	8645	14	8685	1	9794	3	9081	9	7434	8	8257	8	9901	3
19	Rasi 393	11502	3	9487	20	7883	19	6553	20	8592	15	7025	12	8507	16	7702	23	5726	19	6714	23	8691	17
20	Rasi 864	10689	7	11038	15	9802	8	7293	15	9895	4	8049	4	9461	7	9306	6	6476	13	7891	12	9666	8
	CHECKS																						
21	Seedtech 2324	8366	15	9448	21	7993	18	7109	17	9372	9	6008	20	8049	19	8609	14	6685	11	7647	16	8524	18
22	Bio 9681	5409	22	13108	4	6175	23	6251	22	7566	20	4675	23	7198	23	8515	16	7200	10	7858	13	7557	23
23	Buland	6494	21	10197	16	7249	22	6719	18	7434	21	6382	18	7412	21	9077	10	5240	23	7158	19	7920	21
	Location Mean	**9169**		**11404**		**8976**		**7669**		**8882**		**6947**		**8841**		**9029**		**7095**		**8062**		**9154**	
	C.D. (5%)	1519		700		1122		1400		627		837		1034		791		371		581		1048	
	C.V. (%)	10.06		3.73		7.59		11.09		4.29		7.32		-		5.32		3.17		-		-	
	F (Prob)	0		0		0		0		0		0				0		0					
	Plot Size	9.6		9.6		11.2		12		11.2		9.6		-		9.6		9.6		-		-	
	AGRONOMY DATA																						
	Sowing Date	26-11		20-12		30-11		31-12		12-09		20-01		-		30-11		5-12		-		-	
	Harvest Date	24-04		6-04		18-04		6-03		29-04		19-05		-		8-05		19-05		-		-	
	Irrigation Nos	8		10		15		-		12		12		-		6		8		-		-	
	Ferilizer Applied N	150		150		240		120		150		150		-		150		100		-		-	
	Ferilizer Applied P	75		75		80		60		75		75		-		80		50		-		-	
	Ferilizer Applied K	37.5		75		80		40		40		75		-		-		-		-		-	

TABLE No. 3 (Cont..)

		GRAIN YIELD % SUPERIORITY OVER THE Seedtech 2324																					
Sl						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
No	PEDIGREE	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	KARI	KOLH	MAND	VAGA	MEAN	BANS	GODH	MEAN	MEAN
1	HTMH 5108	19.1	6.3	-	5	2.8	49.9	2.9	17.4	-	22.5	16	42.7	24.7	11.3	23.6	2.9	39.9	23.1	16.4	-	6.6	13.4
2	IM 8222	26.4	-	27.2	29.9	20.9	56.4	15.3	-	5.4	46.1	22.8	13.5	38.2	24.4	10.4	-	13.5	15.9	5.2	-	2.6	17.8
3	GK 3118	11.5	6.2	-	17.9	0.3	10.7	5.5	-	-	18.3	3.1	34.1	1.7	32.6	-	10.1	19.4	12.2	20.8	-	5.2	5.5
4	Rasi 950	34.5	-	10.8	20.7	14.4	2.7	8.2	33.2	-	13.7	11.5	2.4	5.9	10.3	-	2.9	21.5	5.6	-	-	-	8.1
5	CSM1	28.5	-	-	6	3.8	25.6	-	-	-	10.4	0.1	-	-	-	7.4	-	-	-	6.3	-	0.8	-
6	KH 3021	17.5	-	-	15.2	5.1	87.5	-	5.8	-	19.7	15.9	5.8	27.7	0.4	9.8	11.8	17.8	12.4	-	20.4	4.4	10.3
7	CP 111	13.2	8.8	-	8.4	2.1	-	3.8	8.3	-	0.3	0.6	-	31.8	14.7	17.1	-	24	12.3	6.1	44.3	22.8	7.3
8	HTMH 5202	41.8	-	-	40.2	16.4	42.2	0.4	1.9	16.7	29.3	17.3	13.7	27	24.2	23.3	1.1	11.4	16.7	-	-	-	14
9	KH 2192	27.4	4	-	15.3	8.1	24.5	-	17.1	-	10.5	4.4	7.4	38	19.7	7.8	-	42.3	18.3	28.3	40.9	33.9	13.3
10	JH 8837	35.1	-	-	5.7	-	6.1	-	-	-	0.6	-	34.1	18	4.8	-	-	17.9	5.9	4.2	-	-	-
11	CP 333	23.7	-	-	29	12.3	57	8.3	24.7	6.6	7.2	19.4	-	48.4	27.7	22.9	12.6	15.4	21.6	9.3	29.6	18.2	17.9
12	GK 3155	7.4	8	9.2	31.6	15.8	69.1	-	2.8	-	21.5	11.5	-	25.7	31.1	18.3	2	17.2	15	-	48.4	20.8	15
13	CP 999	28.1	-	19.5	34.8	21.1	41.5	-	4.4	-	20.9	11.3	4.3	39.6	12.1	65.5	-	13.5	19	-	-	-	14.9
14	KMH 1411	15.9	-	0	12.3	5.8	22.6	-	22.8	7.3	34.1	17.9	-	-	17.2	15.5	-	4.5	3.7	3.3	28.9	14.5	9.2
15	JH 293	40.8	-	-	-	-	-	-	-	-	-	-	-	6.9	-	1	-	-	-	-	8.2	-	-
16	CP 838	24.1	2.3	-	15.8	2.6	71.7	-	16.7	-	19	16.1	36.7	41.3	28.7	11.9	-	21.2	23	41.3	-	16.5	14.4
17	DMRH1308	28.2	-	-	17.9	4	-	-	7.4	11.2	0.3	0.5	25.1	21.1	16.3	5.9	-	15.4	11.8	-	30.1	12	6.5
18	X35F880	50	-	-	31.5	7.1	68.7	22.3	3.7	7	25.5	22.9	48.4	22.5	24.9	5	-	44.6	21.7	5.5	11.2	8	16.2
19	Rasi 393	31.2	-	-	6.9	6.6	-	5.5	0.1	-	5.7	-	37.5	0.4	-	-	-	16.9	5.7	-	-	-	2
20	Rasi 864	11.9	-	7.8	18.7	10.3	24.2	10.1	11.4	11.9	22.6	15.9	27.8	16.8	22.6	2.6	5.6	34	17.5	8.1	-	3.2	13.4
	CHECKS																						
21	Seedtech 2324	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	Bio 9681	13.4	6.2	-	-	-	-	-	-	-	-	-	-	38.7	-	-	-	-	-	-	7.7	2.8	-
23	Buland	-	-	-	1.7	-	8.5	0.6	-	-	-	-	-	7.9	-	-	-	6.2	-	5.4	-	-	-

TABLE No. 3 (Cont..)

		GRAIN YIELD % SUPERIORITY OVER THE Bio 9681																					
Sl						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
No	PEDIGREE	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	KARI	KOLH	MAND	VAGA	MEAN	BANS	GODH	MEAN	MEAN
1	HTMH 5108	5	0.1	67.2	23.3	21	104.5	21.8	28.3	10.7	29.5	34.5	120.7	-	44	40.5	27.5	79.8	37.6	17.7	-	3.7	27.9
2	IM 8222	11.5	-	140.4	52.6	42.3	113.4	36.5	7.2	28.8	54.5	42.5	75.5	-	61	25.5	16.4	45.9	29.6	6.3	-	-	32.9
3	GK 3118	-	-	33.1	38.5	18	50.9	24.8	6.1	3.1	25.1	19.5	107.4	-	71.6	-	36.4	53.4	25.5	22.1	-	2.4	19
4	Rasi 950	18.5	-	109.4	41.9	34.6	40.1	28.1	45.5	13	20.2	29.4	58.4	-	42.7	6.5	27.5	56.1	18.1	-	-	-	22
5	CSM1	13.3	-	72	24.6	22.2	71.4	1	4.7	4.8	16.7	16.1	52.3	-	25.8	22.1	-	14.2	4.9	7.5	-	-	11.9
6	KH 3021	3.6	-	81.9	35.3	23.7	155.7	0.5	15.6	13.4	26.6	34.4	63.6	-	30	24.9	38.5	51.4	25.8	-	11.8	1.6	24.4
7	CP 111	-	2.5	58.6	27.4	20.1	35.5	22.9	18.3	9.7	6	16.7	54.6	-	48.4	33.2	12.3	59.4	25.6	7.3	33.9	19.5	21
8	HTMH 5202	25	-	75.1	64.8	36.9	94	18.9	11.4	42.6	36.7	36.1	75.8	-	60.8	40.2	25.3	43.2	30.5	-	-	-	28.6
9	KH 2192	12.4	-	74.1	35.5	27.2	69.8	7.9	27.9	-	16.8	21	66.1	-	54.9	22.6	23.5	82.9	32.3	29.8	30.9	30.3	27.7
10	JH 8837	19.1	-	45.7	24.2	15.4	44.7	16.1	-	12.8	6.4	10.5	107.4	-	35.7	3.2	-	51.4	18.4	5.4	-	-	12.8
11	CP 333	9	-	87.7	51.6	32.2	114.2	28.2	36.3	30.3	13.3	38.5	53.4	7	65.2	39.7	39.5	48.3	36	10.5	20.4	15	33
12	GK 3155	-	1.7	106.3	54.7	36.3	130.6	7.3	12.3	0.4	28.5	29.3	51.3	-	69.7	34.5	26.4	50.6	28.6	0.5	37.8	17.6	29.7
13	CP 999	13	-	125.7	58.4	42.6	93	17.7	14.1	15.3	27.8	29.1	61.4	0.6	45.1	88.2	5.7	45.9	33.1	-	-	-	29.6
14	KMH 1411	2.2	-	89	31.9	24.5	67.3	14.9	34.2	31.1	41.7	36.8	46.3	-	51.7	31.4	18.6	34.2	16	4.5	19.7	11.4	23.1
15	JH 293	24.2	-	46.9	6.4	10.9	0.6	3.3	-	7.3	-	-	-	-	24.4	14.9	4.1	23.4	0.1	-	0.4	-	1.9
16	CP 838	9.4	-	44	36.1	20.7	134.1	12.2	27.6	4.4	25.9	34.6	111.4	1.8	66.6	27.3	20.5	55.8	37.6	42.9	-	13.4	29
17	DMRH1308	13	-	72.5	38.5	22.4	12.9	12.5	17.4	35.8	6.1	16.6	93.6	-	50.6	20.4	9.8	48.3	25	-	20.8	9	20.2
18	X35F880	32.2	-	47.3	54.5	26.1	130.1	44.8	13.3	30.7	32.7	42.5	129.6	-	61.6	19.4	14.3	85.8	36.1	6.6	3.2	5.1	31
19	Rasi 393	15.7	-	86.9	25.7	25.4	15	24.9	9.4	8.4	11.8	13.2	112.6	-	27.7	4.8	13.6	50.3	18.2	-	-	-	15
20	Rasi 864	-	-	103.7	39.5	29.7	69.4	30.3	21.7	36.7	29.7	34.4	97.6	-	58.7	16.7	30.8	72.2	31.4	9.3	-	0.4	27.9
	CHECKS																						
21	Seedtech 2324	-	-	89	17.5	17.7	36.4	18.4	9.3	22.2	5.7	16	54.7	-	29.4	13.7	23.9	28.5	11.8	1.1	-	-	12.8
22	Bio 9681	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Buland	-	-	70.4	19.5	11.6	48	19.1	-	1.8	-	6.1	20.1	-	17.4	7.5	-	36.5	3	6.6	-	-	4.8

TABLE No. 3 (Cont..)

		GRAIN YIELD % SUPERIORITY OVER THE Buland																					
Sl						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
No	PEDIGREE	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	KARI	KOLH	MAND	VAGA	MEAN	BANS	GODH	MEAN	MEAN
1	HTMH 5108	21.8	19.8	-	3.2	8.4	38.1	2.3	39.4	8.7	39.8	26.8	83.8	15.5	22.7	30.8	29.7	31.7	33.7	10.4	19.9	13.9	22
2	IM 8222	29.3	6.7	41.1	27.8	27.5	44.1	14.6	16.5	26.5	66.7	34.2	46.2	28	37.2	16.8	18.4	6.9	25.8	-	26.7	9.6	26.8
3	GK 3118	14	19.6	-	16	5.7	2	4.8	15.3	1.3	35	12.6	72.8	-	46.2	-	38.9	12.4	21.9	14.6	8.6	12.4	13.5
4	Rasi 950	37.5	6	22.9	18.8	20.6	-	7.6	58.1	10.9	29.8	21.9	31.9	-	21.6	-	29.8	14.4	14.7	-	3	-	16.4
5	CSM1	31.4	11.3	1	4.3	9.5	15.7	-	13.8	2.9	25.9	9.4	26.9	-	7.2	13.6	-	-	1.9	0.8	19.6	7.7	6.8
6	KH 3021	20.2	4.3	6.7	13.3	10.8	72.7	-	25.6	11.4	36.6	26.6	36.3	18.3	10.7	16.2	40.9	10.9	22.1	-	53.7	11.6	18.7
7	CP 111	15.8	22.6	-	6.6	7.7	-	3.2	28.6	7.7	14.5	9.9	28.8	22.1	26.5	23.9	14.3	16.8	22	0.6	84.1	31.2	15.5
8	HTMH 5202	45.1	5.3	2.8	37.9	22.7	31	-	21	40.1	47.5	28.2	46.4	17.6	37	30.5	27.5	4.9	26.7	-	13.4	-	22.7
9	KH 2192	30.3	17.2	2.2	13.4	14	14.7	-	39	-	26.1	14.1	38.4	27.8	32	14.1	25.7	34	28.5	21.7	79.8	43	21.9
10	JH 8837	38.1	-	-	4	3.4	-	-	-	10.7	14.8	4.1	72.7	9.4	15.6	-	-	10.9	15	-	15.7	5	7.6
11	CP 333	26.5	8.7	10.2	27	18.5	44.7	7.6	48	27.9	22.3	30.5	27.7	37.5	40.8	30	41.9	8.6	32.1	3.6	65.4	26.2	26.9
12	GK 3155	9.8	21.7	21.1	29.5	22.1	55.8	-	22	-	38.7	21.9	26	16.5	44.6	25.1	28.6	10.3	24.9	-	89.4	29.1	23.7
13	CP 999	31.1	10.2	32.5	32.6	27.8	30.3	-	24	13.2	38	21.6	34.4	29.3	23.7	75.1	7.5	6.9	29.2	-	19.2	-	23.6
14	KMH 1411	18.6	8.3	11	10.5	11.6	13	-	45.8	28.8	53	28.9	21.8	-	29.2	22.2	20.7	-	12.6	-	64.5	22.3	17.5
15	JH 293	44.1	-	-	-	-	-	-	2.7	5.4	-	-	-	-	6	6.9	5.9	-	-	-	38	6.2	-
16	CP 838	26.9	15.3	-	13.9	8.2	58.2	-	38.6	2.5	35.8	26.8	76.1	30.9	41.9	18.4	22.6	14.1	33.6	34	7.8	24.4	23.1
17	DMRH1308	31.2	-	1.3	16	9.7	-	-	27.5	33.4	14.5	9.8	61.2	12.2	28.3	12	11.8	8.7	21.4	-	66	19.6	14.6
18	X35F880	53.4	-	-	29.4	13	55.4	21.5	23.1	28.4	43.2	34.3	91.2	13.5	37.7	11.1	16.3	36.1	32.1	0	41.9	15.4	25
19	Rasi 393	34.2	9.5	9.7	5.2	12.4	-	4.8	18.9	6.5	20.7	6.6	77.1	-	8.8	-	15.6	10.1	14.8	-	9.3	-	9.7
20	Rasi 864	14.4	12.5	19.6	16.8	16.3	14.4	9.4	32.2	34.2	40	26.7	64.6	8.2	35.2	8.6	33.1	26.1	27.6	2.5	23.6	10.2	22
	CHECKS																						
21	Seedtech 2324	2.3	12.7	10.9	-	5.5	-	-	18.7	20	14.1	9.3	28.8	-	10.3	5.8	26.1	-	8.6	-	27.6	6.8	7.6
22	Bio 9681	16	19.7	-	-	-	-	-	8.6	-	7.9	-	-	28.6	-	-	1.8	-	-	-	37.4	9.8	-
23	Buland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE No. 3 (Cont..)

		MOISTURE % AT HARVEST																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	HTMH 5108	12.3	28.6	31.7	19.6	23.0	24.8	19.9	14.3	19.4	28.4	21.3	19.2	22.6	12.8	14.1	17.0	18.5	17.3	18.2	15.6	16.9	19.8
2	IM 8222	14.3	28.5	28.0	19.8	22.6	26.6	19.2	14.6	19.4	25.1	21.0	15.0	23.0	13.3	14.4	15.8	17.9	16.6	18.2	16.3	17.2	19.4
3	GK 3118	14.7	28.8	31.7	20.2	23.8	26.5	20.4	16.4	19.1	26.6	21.8	15.7	21.0	11.3	14.5	17.2	18.2	16.3	18.1	15.7	16.9	19.8
4	Rasi 950	13.0	28.6	26.7	17.7	21.5	23.9	20.3	14.1	18.3	23.5	20.0	14.4	21.6	11.8	12.5	15.9	16.8	15.5	17.4	14.5	15.9	18.3
5	CSM1	13.3	29.6	27.0	19.8	22.4	24.0	19.3	15.1	16.6	24.3	19.8	15.2	24.0	12.6	12.2	16.8	16.0	16.1	17.4	14.9	16.1	18.7
6	KH 3021	14.3	29.4	30.3	17.5	22.9	26.9	19.9	14.9	18.9	24.3	21.0	19.8	20.6	12.3	14.0	16.1	18.1	16.8	17.5	13.4	15.4	19.3
7	CP 111	15.0	30.1	27.6	17.6	22.6	24.8	20.0	13.9	18.6	22.9	20.0	19.5	22.0	11.8	12.2	16.5	18.3	16.7	18.2	15.2	16.7	19.1
8	HTMH 5202	13.0	28.2	29.8	17.8	22.2	25.8	19.7	14.9	13.4	27.5	20.3	13.7	22.2	13.5	14.4	16.2	16.0	16.0	18.0	13.9	15.9	18.7
9	KH 2192	13.3	29.5	31.9	17.2	23.0	25.1	20.5	14.7	21.5	23.2	21.0	21.3	25.4	10.0	12.5	16.2	15.9	16.9	17.9	13.9	15.9	19.4
10	JH 8837	14.3	27.5	28.7	21.6	23.0	24.1	19.4	13.7	21.8	23.5	20.5	23.0	21.9	11.9	13.0	15.7	17.8	17.2	18.1	12.8	15.4	19.3
11	CP 333	14.0	27.2	31.1	19.9	23.0	25.2	19.7	15.0	20.4	27.4	21.5	19.3	23.3	12.3	12.7	16.9	16.9	16.9	18.4	15.2	16.8	19.7
12	GK 3155	14.3	30.0	29.7	17.2	22.8	27.2	20.3	14.0	19.1	21.2	20.4	17.9	21.2	12.2	12.5	16.6	17.9	16.4	18.0	15.1	16.6	19.1
13	CP 999	13.7	27.8	29.6	18.1	22.3	24.4	20.4	14.4	18.8	27.7	21.1	17.8	21.5	13.2	12.1	16.1	16.3	16.1	17.9	15.5	16.7	19.1
14	KMH 1411	14.3	29.5	33.1	20.5	24.3	25.8	19.6	17.7	19.9	27.4	22.1	19.8	23.0	13.2	13.0	17.2	17.8	17.3	18.3	14.3	16.3	20.2
15	JH 293	13.7	29.3	30.7	20.7	23.6	23.7	18.2	14.4	17.8	25.1	19.8	13.8	22.6	11.8	12.3	16.5	18.8	15.9	17.7	15.1	16.4	18.9
16	CP 838	14.3	29.6	32.2	19.2	23.8	26.3	20.0	15.5	18.0	26.7	21.3	16.5	22.2	11.5	12.4	17.1	16.8	16.1	18.1	14.0	16.1	19.4
17	DMRH1308	13.7	26.4	30.8	18.1	22.2	25.9	19.6	14.9	21.1	28.1	21.9	20.8	21.8	12.0	12.5	18.2	15.7	16.8	17.9	15.4	16.6	19.6
18	X35F880	14.7	30.3	31.3	19.8	24.0	25.2	19.1	13.6	18.4	29.8	21.2	16.6	23.1	14.5	14.2	16.5	16.4	16.9	18.0	15.6	16.8	19.8
19	Rasi 393	13.3	28.1	30.7	18.1	22.6	24.0	19.1	14.4	18.5	26.6	20.5	14.8	21.6	10.9	14.5	14.8	17.9	15.7	18.0	14.7	16.3	18.8
20	Rasi 864	14.3	27.7	27.6	17.5	21.8	25.9	19.8	14.8	18.1	25.8	20.9	20.7	22.1	12.8	12.4	16.2	17.5	16.9	17.8	13.9	15.8	19.1
	CHECKS																						
21	Seedtech 2324	16.3	28.1	31.3	22.3	24.5	23.5	19.8	14.8	18.9	25.5	20.5	17.4	23.4	13.9	14.2	17.2	17.6	17.3	17.6	15.6	16.6	19.8
22	Bio 9681	15.7	30.4	33.1	17.8	24.2	24.0	18.8	14.7	18.6	25.0	20.2	15.3	21.2	10.9	12.5	15.9	17.9	15.6	18.5	14.1	16.3	19.1
23	Buland	16.7	32.3	26.0	17.9	23.2	25.8	19.6	14.2	20.9	22.8	20.6	14.5	21.9	10.5	12.8	14.4	18.2	15.4	17.9	16.1	17.0	19.0
	Loc. Mean	**14.2**	**28.9**	**30.0**	**18.9**	**23.0**	**25.2**	**19.7**	**14.7**	**18.9**	**25.6**	**20.8**	**17.5**	**22.3**	**12.2**	**13.1**	**16.4**	**17.3**	**16.5**	**17.9**	**14.8**	**16.4**	**19.3**
	C.D. (5%)	2.12	0.00	1.79	1.02	2.07	0.97	0.52	1.56	2.46	1.99	1.77	2.03	0.88	2.50	2.51	0.54	1.31	1.61	0.50	0.40	1.35	0.90
	C.V. (%)	9.06	0.00	3.62	3.28	6.38	2.33	1.60	6.43	7.90	4.73	6.76	7.06	2.39	12.43	11.65	2.00	4.58	8.56	1.70	1.64	3.96	6.95
	F (Prob)	0.03	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.10	0.44	0.00	0.00	0.35	0.00	0.00	0.39	0.01

Table No. 3 (Continued)

		GRAIN SHELLING %																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	HTMH 5108	75.7	81.5	81.8	83.4	80.6	72.8	81.4	82.7	82.5	76.5	79.2	81.6	78.1	79.1	85.5	81.1	78.6	80.6	76.3	82.8	79.5	80.1
2	IM 8222	73.0	81.5	91.5	87.5	83.4	77.4	80.1	81.5	85.4	80.5	81.0	85.9	82.4	83.6	81.6	80.0	75.4	81.5	76.2	84.8	80.5	81.7
3	GK 3118	71.7	81.8	88.9	82.4	81.2	77.7	78.9	84.0	83.4	76.0	80.0	84.4	82.1	82.5	86.8	81.5	78.6	82.6	79.4	85.6	82.5	81.5
4	Rasi 950	76.7	79.4	89.3	84.2	82.4	77.6	80.9	82.0	84.0	73.5	79.6	82.2	80.0	79.5	79.7	80.9	77.3	79.9	76.4	85.3	80.8	80.5
5	CSM1	75.0	82.5	85.9	84.8	82.1	76.9	81.4	87.5	85.1	75.0	81.2	81.7	78.5	78.5	86.4	80.0	74.8	80.0	76.7	84.2	80.4	80.9
6	KH 3021	72.3	80.5	91.0	87.0	82.7	82.0	82.9	82.5	86.2	77.5	82.2	84.5	82.6	83.0	84.3	81.0	77.3	82.1	74.9	86.1	80.5	82.1
7	CP 111	75.3	82.4	87.6	84.6	82.5	77.7	79.1	82.5	86.7	75.0	80.2	82.8	80.6	82.9	87.3	82.8	77.9	82.4	78.4	80.6	79.5	81.4
8	HTMH 5202	77.7	80.6	88.4	86.8	83.4	78.0	80.2	86.0	82.2	79.5	81.2	83.6	81.1	84.7	87.5	80.1	77.7	82.4	76.8	87.1	81.9	82.2
9	KH 2192	72.3	81.4	87.9	83.4	81.3	75.4	81.2	86.5	85.1	78.0	81.2	81.5	79.3	80.7	83.9	80.8	78.6	80.8	79.4	82.9	81.2	81.1
10	JH 8837	74.3	80.2	86.7	82.7	81.0	79.0	81.8	81.5	81.9	77.5	80.3	84.9	81.3	80.0	85.0	81.8	77.9	81.8	77.0	84.3	80.6	81.0
11	CP 333	73.3	79.1	89.6	87.6	82.4	77.6	78.8	83.0	87.9	79.5	81.3	82.8	80.9	81.8	86.7	82.0	76.8	81.8	77.1	87.8	82.4	81.9
12	GK 3155	72.0	82.2	90.7	85.6	82.6	80.1	82.7	84.5	81.1	76.5	81.0	83.2	81.6	84.6	88.5	80.6	79.7	83.0	77.3	86.7	82.0	82.2
13	CP 999	77.0	82.0	97.5	84.3	85.2	78.3	82.1	82.0	89.4	77.0	81.7	86.4	82.2	85.9	90.2	80.1	77.5	83.7	76.3	80.0	78.1	82.8
14	KMH 1411	76.3	81.7	88.3	82.4	82.2	76.6	80.7	83.0	85.1	77.5	80.6	81.8	79.0	79.7	84.8	80.1	76.8	80.4	75.6	78.9	77.2	80.5
15	JH 293	73.7	81.4	84.2	80.1	79.9	70.8	79.1	83.0	79.8	66.5	75.8	79.4	78.0	78.4	82.1	82.3	76.9	79.5	78.2	81.1	79.7	78.5
16	CP 838	71.0	82.7	81.3	86.8	80.5	79.0	81.6	87.0	88.7	77.0	82.6	84.6	81.8	80.4	86.6	80.5	77.7	81.9	76.8	80.5	78.6	81.4
17	DMRH1308	74.7	80.1	88.1	85.5	82.1	78.6	81.5	81.5	86.5	75.5	80.7	81.6	79.1	79.3	81.1	80.6	76.2	79.6	77.2	82.8	80.0	80.6
18	X35F880	76.7	82.7	84.9	83.5	82.0	75.6	80.5	84.0	82.9	74.0	79.4	84.1	77.7	80.5	83.1	82.1	77.9	80.9	75.4	83.3	79.3	80.5
19	Rasi 393	76.3	80.8	84.4	80.5	80.5	71.5	81.7	86.0	82.6	70.0	78.3	79.5	75.7	80.4	81.6	80.0	78.7	79.3	75.1	78.6	76.8	79.0
20	Rasi 864	77.0	80.4	89.4	84.3	82.8	76.4	80.2	82.0	85.2	73.0	79.4	80.4	77.1	80.7	79.7	81.8	78.6	79.7	74.5	82.9	78.7	80.2
	CHECKS																						
21	Seedtech 2324	70.7	82.0	88.9	84.4	81.5	73.3	83.1	84.0	86.1	76.5	80.6	83.6	77.8	80.9	87.6	81.4	76.8	81.3	75.4	84.3	79.9	81.0
22	Bio 9681	72.7	83.2	89.1	83.0	82.0	77.6	80.1	87.5	82.0	77.5	80.9	84.5	78.3	81.8	85.6	80.6	74.3	80.8	77.7	80.5	79.1	80.9
23	Buland	72.7	81.6	77.1	82.3	78.4	69.6	78.4	83.5	83.1	70.0	76.9	79.5	77.1	77.6	81.2	80.3	77.0	78.8	74.4	80.4	77.4	78.0
	Loc. Mean	**74.3**	**81.4**	**87.5**	**84.2**	**81.8**	**76.5**	**80.8**	**83.8**	**84.5**	**75.6**	**80.2**	**82.8**	**79.6**	**81.2**	**84.6**	**81.0**	**77.3**	**81.1**	**76.6**	**83.1**	**79.8**	**80.9**
	C.D. (5%)	2.50	0.30	-	1.64	3.56	1.34	1.06	3.92	1.19	0.95	2.78	2.09	0.92	2.35	1.78	1.15	1.98	1.88	2.14	3.15	4.16	1.39
	C.V. (%)	2.05	0.22	-	1.19	3.09	1.07	0.80	2.84	0.86	0.76	2.76	1.53	0.70	1.76	1.28	0.87	1.56	2.02	1.69	2.31	2.51	2.55
	F (Prob)	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00

Table No. 3 (Continued)

		STAND AT HARVEST ('000/ha)																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	HTMH 5108	78.5	63.9	86.5	66.1	73.7	61.5	65.3	68.5	70.2	81.3	69.3	66.3	66.7	63.1	49.4	61.3	61.1	61.3	71.5	74.3	72.9	68.0
2	IM 8222	76.7	62.5	85.4	65.3	72.5	65.3	63.9	67.9	70.8	76.0	68.8	70.8	66.7	67.3	49.4	58.0	48.3	60.1	69.8	69.1	69.4	66.7
3	GK 3118	78.5	62.5	84.7	66.7	73.1	60.1	63.9	69.9	72.6	81.9	69.7	67.4	66.3	59.5	49.2	64.9	53.1	60.1	68.1	74.3	71.2	67.3
4	Rasi 950	78.5	62.2	71.2	65.6	69.4	64.6	62.8	67.6	71.4	83.3	70.0	71.9	66.7	69.0	49.2	61.9	55.2	62.3	72.9	71.9	72.4	67.4
5	CSM1	80.2	62.5	81.9	66.7	72.8	60.8	63.9	70.5	69.6	80.6	69.1	60.8	66.7	63.4	50.6	63.4	50.3	59.2	69.4	74.0	71.7	66.8
6	KH 3021	79.9	62.5	84.4	65.6	73.1	64.9	64.2	64.9	72.6	80.6	69.4	67.4	66.7	59.8	47.8	63.1	56.6	60.2	66.7	65.6	66.1	66.7
7	CP 111	77.4	63.9	75.0	66.7	70.7	61.8	64.2	70.5	71.4	76.0	68.8	59.7	66.7	60.4	52.5	67.0	54.9	60.2	70.5	69.8	70.1	66.4
8	HTMH 5202	78.5	63.9	84.4	66.7	73.4	64.6	63.9	68.8	71.4	78.5	69.4	70.8	66.0	70.8	51.1	65.2	58.7	63.8	65.3	78.8	72.0	68.7
9	KH 2192	79.2	63.3	82.3	66.7	72.9	59.7	63.9	69.0	72.6	73.3	67.7	62.8	66.7	67.3	50.0	66.1	58.3	61.9	69.8	77.1	73.4	67.5
10	JH 8837	79.9	63.1	80.6	66.9	72.6	65.6	66.3	69.3	72.0	81.9	71.1	70.1	66.0	71.1	51.7	67.6	57.3	64.0	64.2	77.1	70.7	68.9
11	CP 333	78.5	63.3	83.3	66.9	73.0	66.3	64.2	72.0	73.8	81.6	71.6	67.7	66.7	68.5	50.8	69.0	52.8	62.6	69.8	77.1	73.4	69.0
12	GK 3155	78.1	63.1	64.6	66.7	68.1	62.5	62.5	71.1	72.0	79.2	69.5	68.8	66.7	61.0	52.2	65.5	54.2	61.4	64.6	75.3	70.0	66.4
13	CP 999	79.2	62.5	84.7	66.7	73.3	60.4	65.6	71.4	70.8	82.3	70.1	63.2	66.3	55.1	51.9	66.4	54.9	59.6	65.6	79.9	72.7	67.5
14	KMH 1411	78.5	63.1	82.3	66.7	72.6	64.9	62.8	69.9	70.2	79.2	69.4	70.1	66.0	66.4	51.1	66.7	56.3	62.8	67.4	75.3	71.4	68.0
15	JH 293	79.9	62.2	79.9	66.9	72.2	65.3	64.9	69.9	69.0	79.5	69.7	56.3	66.3	59.5	48.9	58.0	54.9	57.3	70.1	71.9	71.0	66.1
16	CP 838	78.5	64.2	77.8	66.9	71.8	61.8	66.7	68.8	68.5	81.3	69.4	70.1	65.6	65.5	53.3	65.2	51.7	61.9	72.9	78.1	75.5	68.0
17	DMRH1308	78.1	62.2	82.3	66.9	72.4	61.5	60.8	69.6	71.4	80.2	68.7	69.4	66.3	66.4	46.7	65.8	52.1	61.1	68.1	78.1	73.1	67.4
18	X35F880	79.2	63.1	85.1	66.7	73.5	63.2	62.2	71.1	72.6	78.1	69.4	70.1	66.3	69.0	48.1	68.2	53.5	62.5	68.8	78.1	73.4	68.4
19	Rasi 393	78.5	61.7	71.5	66.1	69.4	68.1	64.2	68.2	70.2	80.2	70.2	72.6	66.3	63.1	49.4	65.2	54.2	61.8	61.8	77.8	69.8	67.0
20	Rasi 864	79.9	63.3	85.1	66.7	73.7	59.7	62.8	69.9	70.2	77.8	68.1	68.1	66.7	61.6	49.7	57.1	57.6	60.1	68.8	75.0	71.9	67.1
	CHECKS																						
21	Seedtech 2324	78.5	62.8	80.6	67.2	72.3	64.6	63.5	70.8	67.9	79.9	69.3	61.1	66.0	69.6	48.6	62.8	46.9	59.2	68.8	74.0	71.4	66.7
22	Bio 9681	78.1	61.4	55.9	66.4	65.5	66.0	61.5	69.0	60.7	59.0	63.2	40.3	66.7	38.7	48.6	56.3	37.5	48.0	65.3	81.3	73.3	59.6
23	Buland	79.2	63.9	85.1	66.9	73.8	58.7	63.2	71.1	70.8	79.9	68.7	66.0	66.3	60.4	51.1	62.2	53.1	59.9	69.8	68.1	68.9	66.8
	Loc. Mean	**78.7**	**62.9**	**79.8**	**66.5**	**72.0**	**63.1**	**63.8**	**69.6**	**70.6**	**78.8**	**69.2**	**65.7**	**66.4**	**63.3**	**50.1**	**63.8**	**53.6**	**60.5**	**68.3**	**74.9**	**71.6**	**67.0**
	C.D. (5%)	2.22	2.03	11.63	1.50	5.26	3.54	3.00	5.04	6.96	4.26	3.43	8.69	0.79	4.35	4.74	4.39	5.67	4.47	6.32	2.13	8.28	2.40
	C.V. (%)	1.72	1.96	8.86	1.37	5.17	3.41	2.86	4.40	6.00	3.28	3.95	8.03	0.72	4.17	5.75	4.19	6.42	6.46	5.63	1.73	5.58	5.31
	F (Prob)	0.33	0.39	0.00	0.59	0.25	0.00	0.05	0.71	0.36	0.00	0.07	0.00	0.23	0.00	0.48	0.00	0.00	0.00	0.09	0.00	0.95	0.00

Table No. 3 (Continued)

		DAYS TO 50% POLLEN SHED																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	HTMH 5108	91.0	139.0	81.7	127.0	109.7	131.3	74.0	121.7	115.0	118.0	112.0	82.3	56.0	73.7	77.0	66.3	54.0	68.2	97.7	92.3	95.0	94.0
2	IM 8222	95.7	135.0	78.7	119.7	107.3	123.3	75.7	114.3	115.3	113.3	108.4	80.3	53.3	72.7	73.0	64.3	51.3	65.8	99.7	91.3	95.5	91.6
3	GK 3118	88.0	137.7	81.0	122.3	107.3	126.3	75.7	117.7	114.3	113.7	109.5	81.7	58.0	73.3	79.0	64.3	52.7	68.2	100.3	98.3	99.3	93.2
4	Rasi 950	89.7	139.7	81.3	125.7	109.1	134.3	75.0	119.0	118.7	119.0	113.2	83.7	57.7	73.3	76.0	67.3	50.7	68.1	99.3	94.0	96.7	94.4
5	CSM1	87.0	136.0	78.3	122.7	106.0	123.7	75.0	116.3	115.0	114.7	108.9	80.7	55.7	73.7	73.0	64.3	50.0	66.2	99.3	90.3	94.8	91.5
6	KH 3021	90.3	137.0	79.7	122.7	107.4	128.3	75.0	121.7	117.7	116.0	111.7	81.7	57.3	74.0	77.0	64.0	51.3	67.6	99.0	90.7	94.8	93.1
7	CP 111	94.3	138.0	83.0	126.3	110.4	130.3	75.0	119.3	110.7	120.3	111.1	81.7	56.0	74.0	73.0	65.0	52.3	67.0	95.7	91.3	93.5	93.3
8	HTMH 5202	87.7	138.0	78.7	122.7	106.8	124.7	74.0	118.0	110.0	113.3	108.0	78.7	54.7	73.0	78.0	61.0	50.3	65.9	95.3	91.7	93.5	91.2
9	KH 2192	78.0	134.7	80.3	122.3	103.8	122.7	74.0	117.3	110.3	114.0	107.7	81.7	57.7	73.3	76.0	64.0	52.3	67.5	97.0	92.0	94.5	91.0
10	JH 8837	91.7	140.3	82.3	130.7	111.3	131.7	75.3	122.3	120.3	121.0	114.1	86.3	60.0	79.7	79.0	69.7	55.0	71.6	100.7	91.3	96.0	96.3
11	CP 333	89.3	138.7	82.3	126.3	109.2	131.3	75.3	119.0	117.3	117.3	112.1	80.0	56.3	75.3	75.0	65.3	54.0	67.7	99.3	91.7	95.5	93.8
12	GK 3155	77.3	138.3	79.3	120.7	103.9	125.3	74.0	114.7	110.7	112.0	107.3	81.0	56.3	72.0	72.0	64.3	50.7	66.1	97.0	91.0	94.0	90.4
13	CP 999	88.7	138.3	79.7	126.0	108.2	130.3	74.3	120.3	116.3	118.7	112.0	83.3	56.7	72.7	74.0	64.7	50.3	66.9	97.7	97.0	97.3	93.5
14	KMH 1411	87.7	138.3	80.0	122.7	107.2	122.7	75.3	118.7	116.3	114.3	109.5	83.7	59.3	72.7	76.0	64.3	54.3	68.4	98.7	92.3	95.5	92.8
15	JH 293	90.7	141.3	82.0	130.3	111.1	132.7	76.7	122.0	120.3	121.0	114.5	86.7	60.0	77.3	76.0	68.0	55.3	70.6	100.3	93.7	97.0	96.1
16	CP 838	94.7	134.3	80.7	122.0	107.9	122.7	71.7	116.3	111.7	113.7	107.2	81.0	56.3	73.0	79.0	65.3	53.0	67.9	97.0	98.3	97.7	92.4
17	DMRH1308	94.3	139.0	80.7	127.0	110.3	129.7	75.0	119.7	116.3	121.7	112.5	82.0	56.0	73.3	76.0	66.3	51.7	67.6	97.7	91.3	94.5	94.0
18	X35F880	87.7	138.0	82.3	123.3	107.8	126.3	76.0	120.3	117.3	117.0	111.4	81.7	58.0	76.7	78.0	67.3	55.0	69.4	102.3	97.7	100.0	94.4
19	Rasi 393	91.0	140.0	81.0	129.0	110.3	133.3	74.7	122.0	118.3	121.0	113.9	82.0	57.7	76.0	76.0	66.0	53.3	68.5	101.0	93.3	97.2	95.0
20	Rasi 864	88.7	142.0	81.3	124.0	109.0	128.3	76.0	121.0	117.0	117.7	112.0	81.7	55.3	72.7	72.0	66.0	53.3	66.8	99.3	90.3	94.8	93.3
	CHECKS																						
21	Seedtech 2324	91.0	136.3	79.3	123.7	107.6	129.7	75.0	117.7	112.3	117.0	110.3	82.0	56.7	72.7	73.0	64.0	54.3	67.1	99.0	91.7	95.3	92.7
22	Bio 9681	87.3	138.3	82.7	125.0	108.3	128.3	75.3	120.0	116.7	116.3	111.3	82.0	58.0	73.3	77.0	66.0	55.3	68.6	97.0	90.0	93.5	93.5
23	Buland	89.0	138.7	82.3	125.7	108.9	132.3	75.0	119.3	119.7	118.0	112.9	84.0	59.0	78.3	78.0	66.7	55.3	70.2	99.0	94.0	96.5	95.0
	Loc. Mean	**89.2**	**138.1**	**80.8**	**124.7**	**108.2**	**128.2**	**74.9**	**119.1**	**115.6**	**116.9**	**110.9**	**82.2**	**57.0**	**74.2**	**75.8**	**65.4**	**52.9**	**67.9**	**98.7**	**92.9**	**95.8**	**93.3**
	C.D. (5%)	1.92	0.95	2.23	2.38	3.49	1.94	1.57	3.31	1.88	1.57	2.37	1.90	1.19	1.29	0.00	1.14	1.37	1.51	2.14	0.79	3.95	1.35
	C.V. (%)	1.31	0.42	1.68	1.16	2.28	0.92	1.27	1.69	0.99	0.82	1.70	1.41	1.26	1.06	0.00	1.06	1.57	1.94	1.32	0.52	1.99	2.14
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00

Table No. 3 (Continued)

		DAYS TO 50% SILKING																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	HTMH 5108	95.3	142.0	83.0	130.0	112.6	133.3	76.3	124.3	119.0	121.7	114.9	83.7	59.3	75.3	78.0	69.0	57.0	70.4	100.7	93.3	97.0	96.5
2	IM 8222	100.3	137.0	79.3	122.3	109.8	125.3	77.0	117.3	118.7	116.3	110.9	80.0	55.3	73.7	74.0	66.3	54.7	67.3	103.0	92.3	97.7	93.7
3	GK 3118	92.3	139.7	83.0	125.0	110.0	128.3	77.0	120.7	118.3	118.7	112.6	83.3	60.3	74.7	80.0	69.3	55.7	70.6	103.3	99.3	101.3	95.8
4	Rasi 950	93.7	140.7	83.0	128.0	111.3	136.3	77.0	121.7	122.3	122.3	115.9	85.7	60.0	75.7	77.0	69.7	53.7	70.3	102.3	96.0	99.2	96.8
5	CSM1	91.0	138.0	80.0	125.7	108.7	125.7	77.0	119.3	118.7	119.3	112.0	83.0	58.7	75.0	74.0	67.0	53.0	68.4	102.7	91.3	97.0	94.1
6	KH 3021	93.7	139.0	82.3	126.7	110.4	130.3	77.3	123.0	122.0	120.7	114.7	84.3	60.3	75.7	78.0	69.0	54.3	70.3	102.3	91.7	97.0	95.9
7	CP 111	99.0	140.0	83.3	129.3	112.9	132.3	76.3	122.3	115.3	123.3	113.9	83.3	58.7	74.3	74.0	67.0	55.0	68.7	98.7	92.3	95.5	95.6
8	HTMH 5202	92.0	140.0	80.7	125.0	109.4	126.7	76.3	121.0	114.7	118.7	111.5	83.0	56.7	75.0	79.0	67.0	53.7	69.1	98.3	92.7	95.5	94.1
9	KH 2192	83.0	136.7	82.7	125.0	106.8	124.7	75.3	120.3	115.3	118.3	110.8	83.0	60.3	74.3	77.0	68.0	55.7	69.7	100.3	94.0	97.2	93.8
10	JH 8837	95.0	142.3	84.3	133.7	113.8	133.7	77.7	125.3	124.7	124.3	117.1	89.0	62.3	82.3	80.0	73.3	58.0	74.2	103.7	93.3	98.5	99.0
11	CP 333	93.0	139.7	83.0	128.3	111.0	133.3	77.7	121.7	121.0	120.0	114.7	80.7	58.3	77.7	76.0	67.0	56.7	69.4	102.3	93.3	97.8	95.9
12	GK 3155	81.7	139.3	82.0	123.7	106.7	128.3	75.7	117.3	115.3	116.3	110.6	80.7	58.3	73.0	73.0	67.7	54.0	67.8	100.0	92.0	96.0	92.8
13	CP 999	93.0	140.3	81.7	127.7	110.7	132.3	76.3	123.3	120.3	122.0	114.9	85.0	58.7	75.0	75.0	68.0	53.7	69.2	100.7	99.0	99.8	96.0
14	KMH 1411	91.7	141.3	82.3	126.0	110.3	124.7	77.7	121.7	120.7	119.7	112.9	88.7	61.7	75.0	77.0	69.0	57.0	71.4	101.7	94.3	98.0	95.9
15	JH 293	94.0	142.3	84.3	133.3	113.5	134.7	78.3	125.3	124.3	125.3	117.6	89.0	62.7	80.3	77.0	71.0	58.3	73.1	103.3	95.7	99.5	98.8
16	CP 838	98.0	136.3	82.7	124.3	110.3	124.7	72.7	119.0	116.3	119.0	110.3	80.7	58.3	74.0	80.0	67.7	56.0	69.4	100.0	100.3	100.2	94.7
17	DMRH1308	96.7	140.0	82.3	128.7	111.9	131.7	77.3	122.7	118.3	124.0	114.8	83.0	58.0	74.3	77.0	68.0	54.3	69.1	100.7	92.3	96.5	95.8
18	X35F880	92.0	140.0	84.3	125.0	110.3	129.3	78.0	123.0	121.7	120.3	114.5	82.3	60.7	79.0	79.0	71.0	58.0	71.7	106.0	99.7	102.8	97.0
19	Rasi 393	95.0	142.0	83.0	131.7	112.9	135.3	77.0	125.0	122.3	124.3	116.8	83.0	61.0	78.7	77.0	70.3	57.0	71.2	104.0	95.3	99.7	97.8
20	Rasi 864	92.7	144.0	81.7	127.0	111.3	130.3	76.7	123.7	121.7	120.3	114.5	82.0	57.3	74.3	73.0	67.0	56.3	68.3	102.3	91.3	96.8	95.4
	CHECKS																						
21	Seedtech 2324	94.7	138.3	81.3	126.0	110.1	131.7	77.3	120.3	116.7	120.3	113.3	83.0	59.3	75.0	74.0	67.0	57.0	69.2	102.0	93.3	97.7	95.1
22	Bio 9681	92.3	139.3	84.7	127.7	111.0	130.3	77.0	123.0	120.7	120.3	114.3	83.0	61.7	75.7	78.0	69.3	59.0	71.1	100.3	93.0	96.7	96.2
23	Buland	93.3	141.7	85.3	129.0	112.3	134.3	76.7	122.3	124.3	123.7	116.3	88.7	62.3	79.7	79.0	69.7	58.0	72.9	102.0	96.0	99.0	98.0
	Loc. Mean	**93.2**	**140.0**	**82.6**	**127.3**	**110.8**	**130.3**	**76.8**	**121.9**	**119.7**	**120.8**	**113.9**	**83.8**	**59.6**	**76.0**	**76.8**	**68.6**	**55.9**	**70.1**	**101.8**	**94.4**	**98.1**	**95.9**
	C.D. (5%)	1.90	0.95	2.79	2.53	3.47	1.94	2.24	3.35	2.67	1.50	2.24	2.19	1.10	1.22	0.00	1.65	1.63	1.64	2.08	0.91	4.18	1.34
	C.V. (%)	1.24	0.41	2.05	1.21	2.22	0.90	1.78	1.67	1.36	0.75	1.57	1.59	1.12	0.97	0.00	1.46	1.77	2.04	1.24	0.59	2.06	2.08
	F (Prob)	0.00	0.00	0.01	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00

Table No. 3 (Continued)

		DAYS TO 75% DRY HUSK																				
					ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	HTMH 5108	135.0	177.3	116.7	143.0	162.7	119.0	159.3	156.0	157.7	150.9	129.7	99.3	115.3	121.0	108.0	98.3	111.9	136.3	133.7	135.0	132.8
2	IM 8222	141.7	173.7	113.3	142.9	162.3	116.7	159.3	154.7	156.0	149.8	127.0	96.0	113.7	117.7	113.7	97.0	110.8	139.0	130.7	134.8	132.0
3	GK 3118	144.0	178.0	113.3	145.1	163.7	117.0	161.0	154.7	156.3	150.5	130.3	99.3	114.7	123.0	111.0	97.0	112.6	138.0	135.7	136.8	133.6
4	Rasi 950	135.7	175.7	113.3	141.6	164.3	117.0	161.0	159.7	157.0	151.8	126.3	100.0	115.7	120.0	110.3	95.0	111.2	137.3	134.7	136.0	132.7
5	CSM1	140.3	172.3	113.3	142.0	161.7	117.7	170.7	153.7	157.7	152.3	127.0	98.3	115.0	117.7	109.3	95.0	110.4	137.7	132.3	135.0	132.5
6	KH 3021	145.3	171.3	112.7	143.1	164.7	115.0	159.7	160.3	156.3	151.2	131.3	100.7	115.7	121.0	107.3	96.7	112.1	138.7	129.7	134.2	132.9
7	CP 111	139.7	179.0	114.7	144.4	161.7	117.7	160.7	158.7	157.7	151.3	130.0	99.0	114.3	117.7	108.3	96.3	110.9	134.3	132.0	133.2	132.6
8	HTMH 5202	136.0	171.0	117.0	141.3	160.7	118.3	166.3	152.0	159.0	151.3	128.3	97.3	115.0	122.0	113.0	94.7	111.7	134.0	131.0	132.5	132.2
9	KH 2192	139.0	178.7	115.3	144.3	164.7	119.0	165.3	156.7	156.3	152.4	132.0	100.0	114.3	120.0	111.3	97.0	112.4	138.7	133.3	136.0	133.9
10	JH 8837	141.0	178.0	114.7	144.6	162.3	119.3	160.3	160.3	159.7	152.4	128.3	102.3	122.3	123.0	110.7	98.7	114.2	139.3	132.0	135.7	134.5
11	CP 333	144.0	177.7	113.7	145.1	163.3	116.0	154.7	158.3	156.0	149.7	127.0	99.0	117.7	119.0	110.3	97.7	111.8	139.7	132.7	136.2	132.9
12	GK 3155	134.3	177.0	114.0	141.8	163.3	119.0	160.3	149.0	156.3	149.6	129.0	98.3	113.0	116.0	113.0	95.7	110.8	138.3	130.3	134.3	131.7
13	CP 999	139.0	172.7	114.0	141.9	162.7	119.0	159.0	159.3	159.3	151.9	127.7	99.7	115.0	118.0	105.7	93.7	109.9	138.3	134.3	136.3	132.3
14	KMH 1411	139.7	178.0	115.0	144.2	162.7	116.3	168.7	155.7	156.0	151.9	130.3	102.3	115.0	121.0	109.7	98.3	112.8	139.7	131.3	135.5	133.7
15	JH 293	143.7	176.7	115.3	145.2	165.7	117.0	161.0	162.0	158.7	152.9	127.0	102.3	120.3	120.0	106.0	99.7	112.6	138.7	133.3	136.0	134.2
16	CP 838	152.7	177.3	113.7	147.9	159.7	116.0	160.3	160.7	157.7	150.9	129.0	99.7	114.0	123.0	107.7	98.3	111.9	137.7	135.0	136.3	133.9
17	DMRH1308	154.7	176.3	115.3	148.8	161.7	118.0	166.3	157.0	159.7	152.5	129.0	98.3	114.3	120.0	110.7	95.3	111.3	139.0	133.3	136.2	134.3
18	X35F880	153.0	178.3	114.7	148.7	161.7	118.7	160.0	157.7	159.0	151.4	130.3	101.3	119.0	122.0	108.3	100.0	113.5	142.3	135.0	138.7	135.1
19	Rasi 393	155.0	178.3	113.3	148.9	166.0	118.0	165.0	159.7	158.7	153.5	128.3	101.3	118.7	120.0	106.3	98.3	112.2	139.0	136.7	137.8	135.2
20	Rasi 864	148.0	176.3	114.0	146.1	163.7	117.0	160.7	160.0	157.7	151.8	127.7	97.7	114.3	116.7	107.0	97.3	110.1	139.0	133.3	136.2	133.1
	CHECKS																					
21	Seedtech 2324	148.3	173.3	114.0	145.2	166.7	118.0	160.0	154.0	147.7	149.3	128.3	98.7	115.0	118.3	108.3	97.7	111.1	139.0	131.7	135.3	132.4
22	Bio 9681	148.3	177.0	117.0	147.4	166.7	120.0	167.3	155.3	158.7	153.6	123.7	101.7	115.7	121.0	113.0	101.3	112.7	138.3	132.7	135.5	134.9
23	Buland	147.0	176.0	114.0	145.7	165.3	117.0	164.3	160.7	156.3	152.7	127.7	102.0	119.7	122.0	105.3	100.0	112.8	139.3	132.7	136.0	134.3
	Loc. Mean	**143.7**	**176.1**	**114.4**	**144.7**	**163.4**	**117.7**	**162.2**	**157.2**	**157.2**	**151.5**	**128.5**	**99.8**	**116.0**	**120.0**	**109.3**	**97.3**	**111.8**	**138.3**	**132.9**	**135.6**	**133.4**
	C.D. (5%)	2.27	0.90	2.54	6.40	2.05	2.07	10.66	2.36	2.73	3.36	4.96	1.53	1.22	0.96	2.61	2.02	2.27	3.44	2.67	3.29	1.79
	C.V. (%)	0.96	0.31	1.35	2.68	0.76	1.07	3.99	0.91	1.05	1.77	2.35	0.93	0.64	0.49	1.45	1.26	1.77	1.51	1.22	1.17	1.92
	F (Prob)	0.00	0.00	0.04	0.35	0.00	0.00	0.46	0.00	0.00	0.45	0.37	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.00	0.21	0.00

Table No. 3 (Continued)

		PLANT HEIGHT(cm)																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	HTMH 5108	201.7	171.7	171.7	252.7	199.4	166.6	178.3	176.0	212.4	186.7	184.0	180.5	194.5	166.3	168.3	212.0	182.6	184.0	245.7	196.7	221.2	192.0
2	IM 8222	197.3	166.7	185.0	260.0	202.3	183.2	209.7	172.0	220.9	196.0	196.4	176.0	208.7	197.3	198.3	220.3	174.1	195.8	242.3	208.3	225.3	201.0
3	GK 3118	198.0	181.7	181.7	260.0	205.3	170.5	224.7	187.7	217.7	175.0	195.1	195.5	209.6	203.7	205.0	236.0	188.9	206.5	247.3	194.0	220.7	204.5
4	Rasi 950	203.0	190.0	183.3	271.3	211.9	175.2	222.3	165.0	215.2	190.3	193.6	183.0	232.2	195.7	210.0	237.7	165.7	204.1	242.3	208.3	225.3	205.3
5	CSM1	204.7	168.3	198.3	253.7	206.3	161.5	192.3	179.7	228.9	194.7	191.4	174.5	227.2	201.3	201.7	224.0	170.8	199.9	234.0	181.7	207.8	199.8
6	KH 3021	198.0	210.0	190.0	280.3	219.6	187.9	210.3	194.3	214.5	194.3	200.3	181.5	205.9	217.0	208.3	234.3	165.9	202.2	252.0	186.7	219.3	207.7
7	CP 111	188.3	198.3	163.3	250.3	200.1	171.9	214.3	185.3	214.2	180.3	193.2	186.5	200.3	198.0	198.3	246.0	186.3	202.6	245.7	206.3	226.0	202.0
8	HTMH 5202	204.3	170.0	181.7	255.7	202.9	174.1	195.7	158.7	209.9	188.7	185.4	168.0	207.8	190.0	163.3	242.0	188.9	193.4	249.3	165.0	207.2	194.9
9	KH 2192	199.0	196.7	188.3	260.7	211.2	189.8	217.0	148.7	212.7	185.3	190.7	167.5	205.3	169.3	200.0	241.3	188.7	195.4	251.0	207.3	229.2	201.7
10	JH 8837	206.0	201.7	196.7	265.3	217.4	198.1	207.3	186.3	238.4	188.7	203.8	196.5	219.7	193.7	213.3	240.7	188.5	208.7	235.3	207.7	221.5	210.8
11	CP 333	205.3	201.7	185.0	261.0	213.3	170.7	204.0	180.3	213.9	191.7	192.1	191.5	219.4	196.0	221.7	237.7	188.9	209.2	239.0	185.0	212.0	205.5
12	GK 3155	190.3	160.0	176.7	235.0	190.5	149.9	193.3	156.7	185.9	177.0	172.6	158.5	205.3	183.7	171.7	206.7	174.0	183.3	249.0	186.7	217.8	185.9
13	CP 999	201.0	191.7	205.0	272.3	217.5	188.9	200.7	180.7	219.1	189.7	195.8	186.5	225.9	192.7	210.0	233.3	185.1	205.6	230.3	185.0	207.7	205.8
14	KMH 1411	188.0	208.3	211.7	268.0	219.0	202.3	207.7	190.0	221.9	201.0	204.6	187.5	216.0	204.3	210.0	256.7	186.5	210.2	252.3	186.7	219.5	211.7
15	JH 293	186.3	181.7	178.3	256.0	200.6	157.0	205.3	170.7	223.7	174.0	186.1	173.0	222.5	197.0	200.0	235.0	151.9	196.6	235.3	181.7	208.5	195.8
16	CP 838	197.7	181.7	176.7	258.3	203.6	186.5	215.7	186.3	210.2	177.0	195.1	185.5	213.1	184.3	190.0	238.7	192.6	200.7	240.0	175.0	207.5	200.5
17	DMRH1308	202.0	188.3	183.3	251.0	206.2	170.7	199.7	192.7	222.3	196.0	196.3	194.5	222.9	191.7	215.0	242.0	194.7	210.1	226.0	204.3	215.2	205.7
18	X35F880	206.3	183.3	185.0	270.0	211.2	196.5	209.7	184.0	216.7	195.3	200.4	200.5	216.5	208.0	205.0	243.3	183.0	209.4	244.0	185.3	214.7	207.8
19	Rasi 393	199.0	208.3	218.3	298.7	231.1	200.6	199.3	186.3	244.4	203.7	206.9	205.5	215.7	199.7	211.7	238.0	172.6	207.2	265.7	182.7	224.2	214.7
20	Rasi 864	185.7	176.7	181.7	251.0	198.8	172.6	186.0	172.7	224.7	187.7	188.7	192.5	203.9	192.0	180.0	233.7	173.6	196.0	242.0	164.3	203.2	195.3
	CHECKS																						
21	Seedtech 2324	188.7	161.7	200.0	241.7	198.0	155.2	183.7	164.0	223.9	191.7	183.7	166.0	194.5	191.7	188.3	215.3	167.8	187.3	252.3	190.7	221.5	192.8
22	Bio 9681	178.3	210.0	185.0	267.7	210.3	188.5	190.0	157.7	213.3	197.7	189.4	190.5	220.2	207.7	211.7	247.0	206.4	213.9	241.0	209.0	225.0	207.2
23	Buland	199.7	205.0	183.3	272.7	215.2	183.3	237.7	181.7	222.9	185.3	202.2	186.5	227.3	210.3	206.7	257.0	188.2	212.7	253.3	189.7	221.5	211.2
	Loc. Mean	**196.9**	**187.5**	**187.4**	**261.4**	**208.3**	**178.3**	**204.6**	**176.4**	**218.6**	**189.0**	**193.4**	**183.8**	**213.7**	**195.3**	**199.5**	**235.6**	**181.1**	**201.5**	**244.1**	**190.8**	**217.5**	**202.6**
	C.D. (5%)	2.72	4.93	35.02	13.25	14.71	22.89	20.77	36.90	18.03	9.26	13.38	8.52	9.00	10.44	29.05	21.18	10.24	11.18	27.37	6.41	24.99	7.06
	C.V. (%)	0.84	1.60	11.36	3.08	5.00	7.80	6.17	12.71	5.01	2.98	5.51	2.82	2.56	3.25	8.85	5.46	3.44	4.85	6.81	2.04	5.54	5.17
	F (Prob)	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.67	0.00	0.72	0.00

Table No. 3 (Continued)

		EAR HEIGHT(cm)																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	HTMH 5108	98.3	78.3	98.3	103.3	94.6	65.6	90.7	82.3	103.5	94.3	87.3	82.5	106.6	65.3	80.0	107.0	91.5	88.8	117.4	85.7	101.5	91.2
2	IM 8222	99.3	65.0	81.7	101.3	86.8	57.8	95.7	65.7	110.1	91.0	84.1	74.5	101.2	92.7	76.7	95.7	98.8	89.9	128.9	87.7	108.3	89.6
3	GK 3118	90.7	71.7	101.7	106.0	92.5	61.8	113.0	83.0	106.6	80.3	89.0	99.0	112.5	96.7	91.7	111.3	94.6	101.0	122.2	93.0	107.6	96.2
4	Rasi 950	100.7	90.0	108.3	116.7	103.9	78.5	113.7	93.7	108.9	91.0	97.1	82.0	126.9	98.7	110.0	109.3	90.6	102.9	120.5	109.3	114.9	102.9
5	CSM1	105.0	70.0	95.0	116.7	96.7	80.0	96.7	88.3	116.3	97.0	95.7	85.0	125.7	96.3	86.7	99.0	94.4	97.8	139.0	81.7	110.3	98.4
6	KH 3021	97.7	95.0	103.3	119.7	103.9	73.0	106.3	89.3	114.6	102.0	97.1	89.5	120.3	108.0	106.7	111.3	90.4	104.4	139.1	85.3	112.2	103.0
7	CP 111	89.0	90.0	81.7	99.7	90.1	64.5	100.3	80.0	97.4	83.7	85.2	73.5	97.6	93.7	86.7	102.3	90.1	90.6	127.1	96.3	111.7	91.4
8	HTMH 5202	102.0	68.3	90.0	105.7	91.5	55.3	97.0	71.7	104.3	85.3	82.7	79.0	113.9	89.3	85.0	105.7	90.5	93.9	117.4	83.3	100.4	90.8
9	KH 2192	98.0	95.0	88.3	100.7	95.5	57.8	107.3	76.3	98.9	90.3	86.2	70.5	110.0	78.0	85.0	106.3	90.9	90.1	130.5	93.7	112.1	92.8
10	JH 8837	101.3	103.3	113.3	114.0	108.0	83.2	114.7	93.3	126.8	96.0	102.8	100.5	128.7	93.0	113.3	131.0	103.3	111.6	127.1	104.3	115.7	108.7
11	CP 333	102.3	101.7	96.7	101.7	100.6	61.5	98.0	82.3	104.5	85.3	86.3	89.0	123.1	90.3	106.7	103.0	94.0	101.0	125.7	87.3	106.5	97.2
12	GK 3155	98.0	68.3	105.0	98.0	92.3	75.0	100.7	79.3	86.3	82.0	84.7	79.5	118.1	82.7	86.7	107.7	92.9	94.6	117.1	84.7	100.9	91.9
13	CP 999	99.0	85.0	91.7	100.0	93.9	73.6	97.0	80.3	115.0	82.0	89.6	82.5	122.1	92.3	96.7	106.0	87.5	97.9	123.8	86.0	104.9	95.3
14	KMH 1411	89.0	95.0	100.0	104.7	97.2	58.1	101.0	86.0	112.3	97.7	91.0	78.5	121.3	93.3	96.7	115.3	95.5	100.1	127.3	84.7	106.0	97.4
15	JH 293	86.7	91.7	111.7	112.0	100.5	61.8	114.7	85.3	120.5	87.0	93.9	86.5	123.7	109.3	101.7	119.3	90.6	105.2	125.7	81.3	103.5	100.6
16	CP 838	98.0	75.0	91.7	99.3	91.0	63.7	104.0	75.7	106.4	79.3	85.8	81.5	114.9	87.7	86.7	100.7	93.1	94.1	127.1	71.3	99.2	91.5
17	DMRH1308	100.0	95.0	100.0	100.3	98.8	65.5	103.7	92.7	105.7	87.0	90.9	90.5	121.7	88.3	101.7	106.3	100.9	101.6	125.6	85.0	105.3	98.2
18	X35F880	101.3	75.0	100.0	106.7	95.8	71.3	105.7	68.0	107.0	84.3	87.3	87.5	120.5	103.3	90.0	110.3	89.7	100.2	120.7	86.0	103.3	95.7
19	Rasi 393	88.7	91.7	121.7	121.0	105.8	67.7	100.3	87.3	130.1	92.7	95.6	101.0	120.1	101.3	88.3	114.3	93.8	103.2	120.4	109.0	114.7	102.9
20	Rasi 864	86.7	85.0	91.7	104.7	92.0	67.5	85.7	77.0	103.2	92.0	85.1	86.0	107.1	86.3	83.3	100.3	87.7	91.8	125.6	66.7	96.1	90.4
	CHECKS																						
21	Seedtech 2324	80.3	83.3	110.0	107.7	95.3	69.7	99.0	82.3	113.3	97.0	92.3	81.5	114.8	87.7	101.7	106.0	94.6	97.7	132.2	86.0	109.1	96.9
22	Bio 9681	85.0	100.0	93.3	103.3	95.4	59.5	93.3	81.0	104.0	89.3	85.4	83.0	117.3	102.3	98.3	108.7	100.7	101.7	122.1	102.7	112.4	96.7
23	Buland	98.0	105.0	101.7	116.3	105.3	73.3	132.7	85.0	106.5	86.0	96.7	89.0	128.0	113.0	111.7	136.7	100.4	113.1	134.1	123.0	128.5	108.3
	Loc. Mean	**95.4**	**86.0**	**99.0**	**106.9**	**96.8**	**67.2**	**103.1**	**82.0**	**108.8**	**89.2**	**90.1**	**84.9**	**117.2**	**93.5**	**94.4**	**109.3**	**93.8**	**98.8**	**125.9**	**90.2**	**108.1**	**96.9**
	C.D. (5%)	2.47	3.03	20.03	8.80	12.14	19.66	15.43	15.11	13.69	8.34	8.79	6.63	6.97	9.11	20.70	12.07	6.56	7.43	20.15	6.13	20.64	4.89
	C.V. (%)	1.58	2.14	12.30	5.00	8.88	17.78	9.09	11.19	7.65	5.68	7.77	4.74	3.61	5.92	13.32	6.71	4.25	6.57	9.73	4.13	9.21	7.49
	F (Prob)	0.00	0.00	0.03	0.00	0.05	0.25	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.76	0.00	0.51	0.00

TABLE No. 4 : **Performance of medium maturing experimental hybrids at Kanpur, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Karimnagar, Kolhapur, Mandya, Vagarai, Banswara, Godhra in AVT1 Trial No. 5 (AVT1-Medium) during Rabi (2014-15)**

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																					
Sl										ZN 2												ZN 3	
No	PEDIGREE	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R
1	GPS MAINA	7864	7	9806	4	14558	1	13339	1	11392	1	6265	11	5826	10	6767	9	8897	2	13283	4	8208	7
2	BL 798	8124	3	9841	3	13048	4	12894	2	10977	3	10236	2	7399	2	8331	5	10031	1	12705	5	9740	2
3	DMRH1307	8429	2	9775	6	12833	5	12277	6	10828	5	7677	7	7208	4	7892	7	8109	5	9136	11	8004	8
4	IM 8303(DKC9166)	7853	8	9525	8	12322	6	10381	12	10020	7	9394	3	7047	5	10213	1	7870	8	12404	6	9385	3
5	DMRH1306	7594	10	9778	5	10537	9	11202	9	9778	9	7406	9	5946	9	6682	11	7080	10	9694	9	7361	11
6	DMRH1302	8624	1	9252	10	9633	12	12695	4	10051	6	6025	12	5760	11	6689	10	5862	12	9051	12	6677	12
7	BL 147	7885	6	9694	7	13266	3	12722	3	10892	4	6537	10	7817	1	8236	6	8290	3	13367	3	8850	4
8	DMRH1301	7824	9	10397	1	10510	10	11136	10	9967	8	11228	1	7371	3	9899	2	7888	7	14195	1	10116	1
9	BL 900	7964	4	9879	2	14506	2	11971	8	11080	2	8677	4	5606	12	8347	4	8114	4	13434	2	8836	5
10	KH 517	7220	11	9483	9	11490	7	10910	11	9776	10	7488	8	6130	8	6390	12	7287	9	10207	8	7500	10
11	CSM2	7894	5	7738	12	10164	11	12151	7	9487	11	8556	5	6136	7	7112	8	6856	11	9273	10	7587	9
	CHECKS																						
12	Bio9637	6797	12	7780	11	10940	8	12317	5	9459	12	7958	6	6709	6	9085	3	7940	6	10439	7	8426	6
	Location Mean	**7839**		**9412**		**11984**		**12000**		**10309**		**8121**		**6580**		**7970**		**7852**		**11432**		**8391**	
	C.D. (5%)	340		335		1422		837		734		1065		374		2040		1193		1223		1179	
	C.V. (%)	2.55		2.1		6.99		4.11		-		7.72		3.35		15.07		8.94		6.3		-	
	F (Prob)	0		0		0		0				0		0		0.004		0		0			
	Plot Size	9.6		12		9.6		12		-		9.6		9.6		11.2		11.2		9.6		-	
	AGRONOMY DATA																						
	Sowing Date	8-12		23-11		4-02		2-12		-		24-11		10-12		28-11		4-12		22-11		-	
	Harvest Date	20-05		24-05		10-06		28-05		-		9-05		27-04		9-06		26-05		6-05		-	
	Irrigation Nos	4		8		12		6		-		5		-		3		8		3		-	
	Ferilizer Applied N	120		150		70		120		-		150		120		150		140		150		-	
	Ferilizer Applied P	60		60		24		60		-		75		60		70		60		75		-	
	Ferilizer Applied K	50		60		12		40		-		60		60		-		40		60		-	

TABLE No. 4 : **(Cont…)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																					
		ARBH	R	COIM	R	KARI	R	KOLH	R	MAND	R	VAGA	R	ZN 4 MEAN	R	BANS	R	GODH	R	ZN 5 MEAN	R	OV'L MEAN	R
1	GPS MAINA	8229	5	11250	8	10067	4	7861	1	9604	3	6993	9	9000	2	13681	3	9631	3	11656	2	9642	3
2	BL 798	7536	9	13400	2	8494	7	7745	2	8213	5	7070	7	8743	5	14206	1	8658	7	11432	3	9878	1
3	DMRH1307	7624	8	10994	10	10261	3	5804	8	7637	9	6011	10	8055	8	9829	12	9339	4	9584	9	8873	7
4	IM 8303(DKC9166)	8981	3	9602	12	10413	2	6349	3	10005	2	7522	2	8812	4	12434	6	9793	2	11114	5	9536	6
5	DMRH1306	7007	11	11377	7	7974	9	5798	9	7634	10	5597	11	7564	11	11268	9	6201	11	8735	11	8163	11
6	DMRH1302	4829	12	11675	6	8988	6	5968	6	7658	8	4852	12	7328	12	12099	8	8105	8	10102	8	8104	12
7	BL 147	10616	1	11035	9	11410	1	5159	12	7709	7	7256	5	8864	3	12508	5	8969	5	10739	6	9557	5
8	DMRH1301	7683	7	12135	5	7721	10	6161	4	7161	11	7211	6	8012	10	13159	4	11904	1	12531	1	9622	4
9	BL 900	9659	2	12719	3	9445	5	5750	10	10076	1	7007	8	9109	1	13882	2	8852	6	11367	4	9758	2
10	KH 517	8151	6	10253	11	8040	8	5890	7	9205	4	7263	3	8133	7	12257	7	8079	9	10168	7	8573	9
11	CSM2	8364	4	12591	4	7363	11	5661	11	6873	12	7260	4	8019	9	10084	11	5909	12	7996	12	8234	10
	CHECKS																						
12	Bio9637	7283	10	13502	1	7006	12	6033	5	7845	6	9069	1	8457	6	10776	10	7768	10	9272	10	8779	8
	Location Mean	**7997**		**11711**		**8932**		**6182**		**8302**		**6926**		**8341**		**12182**		**8601**		**10391**		**9060**	
	C.D. (5%)	2185		2491		1857		888		839		632		1482		890		1075		982		1158	
	C.V. (%)	16.09		12.53		12.24		8.46		5.95		5.38		-		4.3		7.36		-		-	
	F (Prob)	0.003		0.065		0.001		0		0		0				0		0					
	Plot Size	9.6		9.6		11.2		12		11.2		9.6		-		9.6		4.8		-		-	
	AGRONOMY DATA																						
	Sowing Date	26-11		19-12		30-11		29-12		12-09		29-01		-		30-11		5-12		-		-	
	Harvest Date	20-04		6-04		17-04		6-11		30-04		15-05		-		8-05		4-05		-		-	
	Irrigation Nos	8		10		13		-		12		10		-		6		8		-		-	
	Ferilizer Applied N	150		150		240		120		150		150		-		150		100		-		-	
	Ferilizer Applied P	75		75		80		60		75		75		-		80		50		-		-	
	Ferilizer Applied K	37.5		75		80		40		40		75		-		-		-		-		-	

TABLE No. 4 (Cont..)

		GRAIN YIELD % SUPERIORITY OVER THE Bio9637																					
SI						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
No	PEDIGREE	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	KARI	KOLH	MAND	VAGA	MEAN	BANS	GODH	MEAN	MEAN
1	GPS MAINA	15.7	26	33.1	8.3	20.4	-	-	-	12.1	27.2	-	13	-	43.7	30.3	22.4	-	6.4	27	24	25.7	9.8
2	BL 798	19.5	26.5	19.3	4.7	16	28.6	10.3	-	26.3	21.7	15.6	3.5	-	21.2	28.4	4.7	-	3.4	31.8	11.5	23.3	12.5
3	DMRH1307	24	25.6	17.3	-	14.5	-	7.4	-	2.1	-	-	4.7	-	46.5	-	-	-	-	-	20.2	3.4	1.1
4	IM 8303(DKC9166)	15.5	22.4	12.6	-	5.9	18	5	12.4	-	18.8	11.4	23.3	-	48.6	5.2	27.5	-	4.2	15.4	26.1	19.9	8.6
5	DMRH1306	11.7	25.7	-	-	3.4	-	-	-	-	-	-	-	-	13.8	-	-	-	-	4.6	-	-	-
6	DMRH1302	26.9	18.9	-	3.1	6.3	-	-	-	-	-	-	-	-	28.3	-	-	-	-	12.3	4.3	9	-
7	BL 147	16	24.6	21.3	3.3	15.2	-	16.5	-	4.4	28	5	45.8	-	62.8	-	-	-	4.8	16.1	15.5	15.8	8.9
8	DMRH1301	15.1	33.6	-	-	5.4	41.1	9.9	9	-	36	20.1	5.5	-	10.2	2.1	-	-	-	22.1	53.2	35.2	9.6
9	BL 900	17.2	27	32.6	-	17.1	9	-	-	2.2	28.7	4.9	32.6	-	34.8	-	28.4	-	7.7	28.8	14	22.6	11.1
10	KH 517	6.2	21.9	5	-	3.4	-	-	-	-	-	-	11.9	-	14.7	-	17.3	-	-	13.7	4	9.7	-
11	CSM2	16.1	-	-	-	0.3	7.5	-	-	-	-	-	14.8	-	5.1	-	-	-	-	-	-	-	-
	CHECKS																						
12	Bio9637	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table No. 4 (Continued)

MOISTURE % AT HARVEST

S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	ZN 2 Mean	BAHR	BHUB	DHOL	RANC	VARA	ZN 3 Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	GPS MAINA	14.7	27.3	30.3	17.4	22.4	25.0	19.4	22.1	19.6	30.6	23.3	16.1	20.8	11.3	10.7	15.6	17.2	15.3	18.3	13.0	15.6	19.4
2	BL 798	14.0	30.9	29.4	21.6	24.0	26.1	19.2	21.9	16.5	28.4	22.4	19.6	21.0	12.3	10.6	16.4	17.1	16.2	18.4	13.4	15.9	19.8
3	DMRH1307	14.3	25.4	29.6	17.7	21.8	24.3	19.1	17.8	20.2	30.6	22.4	22.2	23.6	16.4	10.9	16.2	16.4	17.6	18.2	15.5	16.8	19.9
4	IM 8303(DKC9166)	15.0	27.7	27.9	17.9	22.1	24.9	19.9	22.2	20.1	31.2	23.6	18.4	21.8	13.6	10.7	16.6	16.6	16.2	18.1	14.2	16.1	19.8
5	DMRH1306	15.7	27.8	27.4	18.7	22.4	24.5	21.2	22.1	20.4	28.3	23.3	16.2	20.7	10.5	10.7	16.0	16.8	15.1	17.6	14.3	15.9	19.3
6	DMRH1302	14.3	24.8	26.5	17.1	20.7	25.9	19.2	22.4	19.8	31.1	23.7	14.7	21.3	13.6	11.2	14.6	17.4	15.5	18.3	14.2	16.2	19.2
7	BL 147	16.0	32.1	32.5	17.3	24.5	24.2	19.6	21.3	20.2	33.6	23.8	14.0	23.1	15.8	11.5	16.4	16.0	16.1	18.3	13.4	15.8	20.3
8	DMRH1301	14.7	27.9	27.8	18.4	22.2	26.9	19.3	21.8	19.6	28.0	23.1	20.0	23.3	16.4	10.9	16.0	17.6	17.4	18.4	15.7	17.0	20.1
9	BL 900	15.0	26.7	28.0	18.2	22.0	25.5	19.4	17.5	19.6	29.9	22.4	17.6	22.2	11.5	11.7	15.8	17.9	16.1	18.5	15.2	16.8	19.4
10	KH 517	15.3	25.5	31.6	21.6	23.5	24.7	19.1	21.6	19.9	31.4	23.3	17.3	21.0	14.8	12.0	16.7	17.4	16.5	17.7	14.7	16.2	20.1
11	CSM2	15.7	23.9	30.5	22.0	23.0	25.0	19.9	21.3	21.4	31.1	23.7	16.6	23.3	14.7	12.3	16.3	17.7	16.8	17.9	16.2	17.0	20.3
	CHECKS																						
12	Bio9637-C	14.0	31.3	32.6	19.1	24.2	23.4	19.4	22.1	19.4	32.7	23.4	19.4	24.1	14.0	11.5	16.0	17.4	17.0	18.4	14.4	16.4	20.5
	Loc. Mean	**14.9**	**27.6**	**29.5**	**18.9**	**22.7**	**25.0**	**19.5**	**21.2**	**19.7**	**30.6**	**23.2**	**17.6**	**22.2**	**13.8**	**11.2**	**16.0**	**17.1**	**16.3**	**18.2**	**14.5**	**16.3**	**19.8**
	C.D. (5%)	1.33	0.34	1.46	0.91	2.58	1.09	0.54	2.06	3.49	1.77	1.68	5.36	0.83	2.01	0.88	0.57	1.03	1.49	0.51	0.43	1.67	0.97
	C.V. (%)	5.28	0.73	2.93	2.86	7.89	2.58	1.64	5.76	10.47	3.42	5.70	17.95	2.21	8.64	4.61	2.10	3.56	7.91	1.65	1.76	4.66	7.23
	F (Prob)	0.06	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.53	0.00	0.64	0.15	0.00	0.00	0.00	0.00	0.03	0.02	0.01	0.00	0.62	0.09

GRAIN SHELLING %

S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	ZN 2 Mean	BAHR	BHUB	DHOL	RANC	VARA	ZN 3 Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	GPS MAINA	77.0	82.3	87.5	84.5	82.8	77.5	80.8	78.5	87.7	75.5	80.0	80.7	79.0	83.4	88.2	81.0	77.2	81.6	79.3	83.1	81.2	81.4
2	BL 798	75.3	82.5	88.0	83.6	82.4	79.5	79.5	79.5	87.2	77.0	80.5	85.0	80.8	83.2	87.6	80.4	77.5	82.4	81.1	78.8	80.0	81.6
3	DMRH1307	74.3	81.8	87.5	86.3	82.5	77.6	79.6	83.5	84.6	76.0	80.3	80.7	76.5	74.1	82.9	80.8	75.8	78.5	81.5	85.1	83.3	80.5
4	IM 8303(DKC9166)	76.7	82.3	88.2	82.2	82.3	77.0	81.9	86.0	83.4	76.5	80.9	83.0	79.4	79.6	81.8	83.3	78.6	80.9	80.6	85.1	82.9	81.5
5	DMRH1306	76.0	80.6	84.0	81.2	80.5	74.1	79.6	78.5	82.8	75.0	78.0	81.8	77.6	78.1	84.5	82.4	74.6	79.8	78.1	89.4	83.8	79.9
6	DMRH1302	74.7	81.7	84.6	81.4	80.6	77.1	81.5	85.5	85.2	75.5	81.0	84.5	77.0	79.5	85.5	81.8	74.8	80.5	78.9	82.0	80.4	80.6
7	BL 147	75.3	81.4	89.1	83.9	82.4	78.5	81.5	79.5	85.1	78.0	80.5	84.6	78.4	80.7	75.7	82.0	77.1	79.7	80.9	85.6	83.2	81.0
8	DMRH1301	77.7	83.2	86.1	84.9	82.9	80.9	77.6	84.0	84.9	74.5	80.4	82.5	79.4	78.1	89.7	71.0	78.2	79.8	80.1	83.5	81.8	80.9
9	BL 900	74.0	81.6	93.2	85.3	83.5	79.4	80.7	82.5	85.8	80.0	81.7	85.1	81.7	81.5	85.4	81.0	77.8	82.1	80.1	87.5	83.8	82.5
10	KH 517	75.7	82.9	87.8	84.2	82.6	76.6	79.6	76.5	84.4	76.0	78.6	84.9	77.6	75.2	85.7	81.5	76.8	80.3	78.9	85.2	82.1	80.5
11	CSM2	77.7	80.8	86.0	82.5	81.7	74.5	78.8	78.0	83.0	72.0	77.2	80.5	80.3	74.4	80.9	82.0	78.5	79.4	79.3	83.8	81.5	79.6
	CHECKS																						
12	Bio9637-C	75.0	80.1	88.9	83.0	81.8	78.7	80.5	82.5	86.0	76.0	80.7	83.1	78.6	79.0	84.6	80.1	78.1	80.6	80.5	87.5	84.0	81.3
	Loc. Mean	**75.8**	**81.8**	**87.6**	**83.6**	**82.2**	**77.6**	**80.1**	**81.2**	**85.0**	**76.0**	**80.0**	**83.0**	**78.8**	**78.9**	**84.4**	**80.6**	**77.1**	**80.5**	**79.9**	**84.7**	**82.3**	**80.9**
	C.D. (5%)	1.36	0.34	-	0.67	2.24	0.91	1.48	5.08	1.15	1.97	2.28	2.18	1.18	2.26	2.39	1.21	1.28	2.98	1.94	5.81	5.00	1.43
	C.V. (%)	1.06	0.25	-	0.47	1.90	0.70	1.09	3.70	0.80	1.53	2.23	1.55	0.88	1.69	1.67	0.89	0.98	3.21	1.43	4.05	2.76	2.61
	F (Prob)	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.04	0.08	0.70	0.01

Table No. 4 (Continued)

		STAND AT HARVEST ('000/ha)																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	GPS MAINA	80.9	62.2	81.9	65.8	72.7	64.2	63.5	71.4	69.3	78.5	69.4	59.0	66.3	67.3	50.0	64.9	55.6	60.5	71.9	81.3	76.6	67.9
2	BL 798	80.6	63.1	84.4	67.5	73.9	64.6	64.9	69.6	67.0	80.6	69.3	56.6	66.7	63.7	51.9	64.9	57.6	60.2	71.2	81.9	76.6	68.0
3	DMRH1307	79.9	63.1	81.3	66.7	72.7	65.6	63.2	70.8	62.8	77.8	68.0	66.3	66.7	66.1	52.5	63.1	53.5	61.4	67.4	75.7	71.5	67.2
4	IM 8303(DKC9166)	78.5	62.5	83.3	66.7	72.7	61.1	64.6	70.8	63.7	78.1	67.7	59.4	66.0	58.9	52.2	59.5	57.3	58.9	70.5	79.9	75.2	66.6
5	DMRH1306	80.9	63.6	70.5	65.0	70.0	60.4	63.5	71.4	53.3	77.8	65.3	59.4	65.6	53.9	48.3	61.0	50.3	56.4	69.8	57.6	63.7	63.1
6	DMRH1302	78.5	62.2	80.2	66.7	71.9	60.8	63.9	70.8	57.1	72.2	65.0	54.5	66.7	61.0	53.3	60.7	50.0	57.7	67.0	81.9	74.5	65.2
7	BL 147	80.9	63.3	85.1	66.1	73.9	62.2	65.6	70.2	62.8	81.6	68.5	63.9	66.7	63.7	49.7	65.2	57.3	61.1	71.2	79.9	75.5	68.0
8	DMRH1301	78.8	63.3	78.8	66.7	71.9	62.2	62.8	71.4	67.0	78.5	68.4	62.2	66.7	53.6	50.8	63.7	54.9	58.6	71.2	79.9	75.5	66.6
9	BL 900	80.2	64.4	82.3	66.7	73.4	64.6	64.2	70.5	64.6	81.6	69.1	63.5	66.3	62.5	46.9	68.2	55.9	60.6	71.2	80.6	75.9	67.9
10	KH 517	80.6	63.1	83.0	66.7	73.3	64.9	64.6	69.6	63.4	79.2	68.3	67.7	66.7	66.4	52.2	65.2	56.6	62.5	69.4	79.9	74.7	68.2
11	CSM2	79.2	62.2	78.1	64.7	71.1	66.0	64.6	69.9	58.9	78.1	67.5	56.9	66.3	53.9	49.4	61.0	56.6	57.4	67.0	73.6	70.3	65.1
	CHECKS																						
12	Bio9637-C	79.5	62.2	81.9	66.9	72.7	60.1	64.6	71.7	61.6	77.4	67.1	54.2	66.7	55.1	53.3	61.0	59.4	58.3	68.4	72.9	70.7	65.7
	Loc. Mean	**79.9**	**62.9**	**80.9**	**66.3**	**72.5**	**63.0**	**64.2**	**70.7**	**62.6**	**78.4**	**67.8**	**60.3**	**66.4**	**60.5**	**50.9**	**63.2**	**55.4**	**59.5**	**69.7**	**77.1**	**73.4**	**66.6**
	C.D. (5%)	1.44	1.51	5.38	2.33	2.85	4.08	3.02	2.32	5.05	6.44	2.96	12.02	0.61	2.60	3.91	6.21	4.33	3.51	2.81	5.70	10.33	1.88
	C.V. (%)	1.06	1.41	3.93	2.07	2.73	3.83	2.78	1.94	4.77	4.85	3.42	11.77	0.54	2.54	4.54	5.80	4.61	5.11	2.38	4.37	6.39	4.16
	F (Prob)	0.00	0.11	0.00	0.46	0.25	0.04	0.81	0.61	0.00	0.32	0.06	0.36	0.02	0.00	0.04	0.21	0.00	0.03	0.01	0.00	0.34	0.00

		DAYS TO 50% POLLEN SHED																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	GPS MAINA	100.0	135.0	78.7	119.7	108.3	120.7	66.0	114.0	110.7	111.0	104.5	78.3	55.3	72.3	74.0	65.3	48.7	65.7	95.7	91.0	93.3	90.4
2	BL 798	103.0	138.3	78.0	120.3	109.9	124.7	65.7	114.3	112.3	111.3	105.7	75.7	51.7	70.7	71.0	64.7	50.3	64.0	96.0	93.0	94.5	90.6
3	DMRH1307	98.3	138.3	78.7	122.3	109.4	122.7	68.0	119.0	118.0	115.3	108.6	81.7	58.7	72.3	74.0	65.3	50.7	67.1	97.0	87.3	92.2	92.2
4	IM 8303(DKC9166)	100.7	139.0	78.7	120.7	109.8	123.3	66.0	121.3	117.3	115.7	108.7	80.7	53.0	73.3	75.0	66.7	50.7	66.6	99.3	93.0	96.2	92.6
5	DMRH1306	97.7	135.7	77.7	120.3	107.8	124.7	65.0	118.0	117.0	113.3	107.6	77.0	52.0	70.3	73.0	63.0	48.3	63.9	95.7	93.0	94.3	90.7
6	DMRH1302	97.0	139.3	78.3	120.0	108.7	123.3	65.3	116.3	116.3	113.3	106.9	77.0	51.7	70.3	69.0	61.7	47.7	62.9	95.7	83.0	89.3	89.7
7	BL 147	101.7	140.0	79.0	122.3	110.8	125.7	68.0	116.7	117.3	114.7	108.5	79.0	55.0	73.7	73.0	64.0	50.0	65.8	97.0	93.0	95.0	92.4
8	DMRH1301	97.7	136.0	78.7	120.7	108.3	119.3	66.3	116.3	113.3	114.7	106.0	77.0	53.0	72.3	71.0	64.0	49.7	64.5	95.0	89.0	92.0	90.2
9	BL 900	99.7	137.7	78.3	122.7	109.6	123.7	67.7	119.7	116.0	113.3	108.1	77.7	54.0	75.7	73.0	64.0	50.3	65.8	98.0	91.0	94.5	91.9
10	KH 517	97.3	135.3	77.7	119.0	107.3	118.7	68.3	115.7	111.3	113.0	105.4	78.7	55.3	77.0	72.3	65.7	48.3	66.2	99.3	92.0	95.7	90.9
11	CSM2	97.0	138.0	79.3	123.3	109.4	120.7	66.0	118.7	116.0	115.0	107.3	80.0	56.7	74.0	72.0	64.0	51.0	66.3	97.7	93.0	95.3	91.9
	CHECKS																						
12	Bio9637-C	99.7	141.3	79.0	128.3	112.1	126.7	68.0	121.0	117.0	119.0	110.3	81.7	55.7	78.3	75.0	68.3	54.0	68.8	99.3	93.3	96.3	94.5
	Loc. Mean	**99.1**	**137.8**	**78.5**	**121.6**	**109.3**	**122.8**	**66.7**	**117.6**	**115.2**	**114.1**	**107.3**	**78.7**	**54.3**	**73.4**	**72.7**	**64.7**	**50.0**	**65.6**	**97.1**	**91.0**	**94.1**	**91.5**
	C.D. (5%)	2.11	1.03	3.44	2.51	2.26	1.76	1.53	4.31	1.44	1.32	2.08	2.02	0.97	1.90	0.28	1.82	2.04	1.52	1.43	0.62	4.40	1.14
	C.V. (%)	1.26	0.44	2.59	1.22	1.44	0.85	1.35	2.17	0.74	0.68	1.52	1.52	1.05	1.53	0.23	1.66	2.41	2.00	0.87	0.40	2.13	1.85
	F (Prob)	0.00	0.00	1.00	0.00	0.01	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00

Table No. 4 (Continued)

		DAYS TO 50% SILKING																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	GPS MAINA	104.7	137.0	80.3	122.7	111.2	122.7	67.3	117.0	115.7	115.3	107.6	78.7	57.7	72.3	75.0	67.7	52.3	67.3	98.7	93.0	95.8	92.8
2	BL 798	106.3	140.3	80.0	123.0	112.4	126.7	67.3	117.3	117.3	116.7	109.1	77.3	53.7	71.7	72.0	66.7	53.7	65.8	99.0	94.0	96.5	93.1
3	DMRH1307	103.3	139.3	80.3	125.0	112.0	124.7	70.0	121.3	121.0	120.3	111.5	86.3	60.7	74.3	75.0	68.7	54.0	69.8	100.3	89.3	94.8	94.9
4	IM 8303(DKC9166)	105.0	141.0	81.0	123.7	112.7	125.3	67.3	123.3	122.7	119.0	111.5	83.0	55.0	74.3	76.0	69.3	53.7	68.6	102.7	95.0	98.8	95.1
5	DMRH1306	102.7	138.7	79.0	122.7	110.8	126.7	66.7	121.0	120.3	116.3	110.2	78.3	54.0	71.7	74.0	65.7	51.7	65.9	98.3	94.0	96.2	93.0
6	DMRH1302	101.0	141.3	79.0	122.3	110.9	125.3	66.3	119.0	120.3	116.3	109.5	81.3	53.7	71.3	70.0	64.3	50.7	65.2	98.7	85.0	91.8	92.1
7	BL 147	106.3	142.0	81.0	125.0	113.6	127.7	69.3	121.0	122.3	118.7	111.8	79.3	57.3	74.7	74.0	67.0	53.3	67.6	100.0	94.0	97.0	94.9
8	DMRH1301	103.3	138.0	80.7	123.0	111.3	122.3	68.0	119.3	118.7	117.7	109.2	79.7	55.0	73.0	72.0	66.7	52.7	66.5	98.0	92.3	95.2	93.0
9	BL 900	104.3	139.7	80.3	125.3	112.4	125.7	70.0	122.7	120.3	118.0	111.3	79.7	56.0	78.7	74.0	67.7	53.7	68.3	101.0	93.0	97.0	94.7
10	KH 517	102.7	137.3	79.0	122.3	110.3	120.7	69.7	118.7	116.0	116.0	108.2	81.0	57.3	79.0	73.0	67.3	51.3	68.2	102.3	94.0	98.2	93.4
11	CSM2	101.7	141.0	81.3	126.0	112.5	122.7	67.3	121.7	120.0	119.7	110.3	81.7	58.7	75.7	73.0	67.3	54.0	68.4	100.7	94.0	97.3	94.5
	CHECKS																						
12	Bio9637-C	105.3	143.3	85.0	131.7	116.3	128.7	70.0	123.7	120.3	121.0	112.7	83.3	71.0	80.7	76.0	70.0	58.0	73.2	101.7	94.3	98.0	97.9
	Loc. Mean	**103.9**	**139.9**	**80.6**	**124.4**	**112.2**	**124.9**	**68.3**	**120.5**	**119.6**	**117.9**	**110.2**	**80.8**	**57.5**	**74.8**	**73.7**	**67.4**	**53.3**	**67.9**	**100.1**	**92.7**	**96.4**	**94.1**
	C.D. (5%)	1.94	1.03	2.29	1.79	2.01	1.76	2.26	4.12	1.59	1.39	1.89	2.17	11.01	1.64	-	2.02	1.80	2.35	1.74	0.85	4.12	1.25
	C.V. (%)	1.10	0.44	1.68	0.85	1.24	0.83	1.96	2.02	0.78	0.70	1.35	1.59	11.30	1.29	-	1.77	2.00	2.99	1.03	0.54	1.94	1.97
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.16	0.00	-	0.00	0.00	0.00	0.00	0.00	0.13	0.00

		DAYS TO 75% DRY HUSK																					
					ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	GPS MAINA	144.0	176.3	114.3	144.9	154.3	109.3	160.3	151.7	157.3	146.6	125.0	98.0	107.3	115.0	111.7	91.0	108.0	130.7	130.7	130.7	129.8
2	BL 798	148.3	179.3	112.3	146.7	162.3	108.0	172.3	152.7	156.3	150.3	124.3	92.3	106.7	112.0	105.7	94.0	105.8	130.0	125.3	127.7	130.1
3	DMRH1307	149.3	176.7	114.7	146.9	161.7	109.7	160.0	158.7	158.0	149.6	125.0	99.7	109.3	115.0	109.0	93.7	108.6	131.3	131.0	131.2	131.4
4	IM 8303(DKC9166)	150.0	178.0	113.3	147.1	164.3	111.0	161.0	159.0	158.7	150.8	125.7	94.7	109.3	114.0	111.0	94.3	108.2	132.3	135.3	133.8	132.0
5	DMRH1306	147.7	176.0	112.0	145.2	158.7	107.0	155.3	154.7	155.3	146.2	121.0	93.7	106.7	114.0	103.0	91.0	104.9	130.7	129.0	129.8	128.5
6	DMRH1302	145.7	176.7	112.3	144.9	159.7	112.0	160.7	157.3	163.3	150.6	123.7	92.0	106.3	110.0	106.7	88.3	104.5	130.3	127.7	129.0	129.5
7	BL 147	148.0	178.3	112.7	146.3	160.7	108.3	156.3	158.0	155.7	147.8	123.7	97.7	109.7	114.0	106.7	93.3	107.5	132.0	127.3	129.7	130.1
8	DMRH1301	147.0	178.0	116.3	147.1	153.7	109.0	160.0	156.3	158.0	147.4	125.7	95.3	108.0	112.0	111.0	91.0	107.2	130.0	131.3	130.7	130.2
9	BL 900	149.3	178.3	113.7	147.1	156.7	109.7	158.7	154.3	157.7	147.4	125.0	96.3	113.7	114.0	109.7	93.0	108.6	132.3	131.0	131.7	130.8
10	KH 517	145.7	177.7	114.0	145.8	153.7	112.0	160.3	154.0	157.7	147.5	125.3	97.7	114.0	113.0	110.3	90.0	108.4	132.3	129.7	131.0	130.5
11	CSM2	146.7	177.3	114.3	146.1	159.3	111.0	159.0	155.0	155.0	147.9	125.0	98.0	110.7	113.0	106.0	93.3	107.7	132.3	134.0	133.2	130.6
	CHECKS																					
12	Bio9637-C	147.3	180.7	116.7	148.2	162.7	108.0	161.0	154.7	158.7	149.0	125.7	97.7	115.7	116.0	106.0	96.0	109.5	133.3	131.3	132.3	132.0
	Loc. Mean	**147.4**	**177.8**	**113.9**	**146.4**	**159.0**	**109.6**	**160.4**	**155.5**	**157.6**	**148.4**	**124.6**	**96.1**	**109.8**	**113.5**	**108.1**	**92.4**	**107.4**	**131.5**	**130.3**	**130.9**	**130.5**
	C.D. (5%)	2.79	0.90	2.68	2.38	1.93	2.17	11.91	3.80	1.60	3.56	1.86	1.14	1.64	1.69	2.38	2.50	2.20	1.99	2.40	3.74	1.57
	C.V. (%)	1.12	0.30	1.39	0.96	0.72	1.17	4.38	1.44	0.60	1.88	0.88	0.70	0.88	0.88	1.30	1.60	1.77	0.89	1.09	1.30	1.73
	F (Prob)	0.01	0.00	0.02	0.17	0.00	0.00	0.44	0.01	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.12	0.00

Table No. 4 (Continued)

		PLANT HEIGHT(cm)																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	GPS MAINA	184.7	151.7	178.3	221.0	183.9	170.6	187.0	149.0	157.5	178.7	168.6	171.0	192.4	173.0	160.0	196.0	192.8	180.9	275.7	145.0	210.3	181.4
2	BL 798	188.7	163.3	195.0	256.3	200.8	191.6	226.7	181.3	180.7	179.3	191.9	184.5	221.3	219.0	193.3	227.7	206.0	208.6	272.7	170.7	221.7	203.4
3	DMRH1307	198.7	155.0	186.7	216.7	189.3	197.3	201.7	175.7	180.2	184.7	187.9	172.5	216.9	195.7	185.0	227.0	205.3	200.4	270.7	170.3	220.5	196.5
4	IM 8303(DKC9166)	197.3	161.7	163.0	244.0	191.5	180.5	205.7	171.7	191.5	190.3	187.9	176.5	188.4	184.3	170.0	210.3	193.1	187.1	277.7	146.7	212.2	191.3
5	DMRH1306	202.3	160.0	176.7	252.3	197.8	191.0	207.0	173.7	169.9	174.3	183.2	165.0	222.3	196.7	161.7	209.0	200.7	192.6	263.7	135.0	199.3	191.8
6	DMRH1302	197.7	121.7	168.3	238.0	181.4	163.2	192.3	143.3	177.1	173.3	169.9	154.0	187.5	168.0	143.3	200.7	175.9	171.6	238.7	166.0	202.3	177.0
7	BL 147	194.7	185.0	198.3	260.0	209.5	208.0	225.7	186.3	191.3	191.7	200.6	191.0	228.9	205.7	196.7	243.7	214.0	213.3	274.0	185.7	229.8	210.6
8	DMRH1301	197.7	140.0	150.0	207.3	173.8	192.4	205.3	169.3	184.7	185.3	187.4	153.0	185.5	174.0	143.3	204.0	182.9	173.8	275.3	182.0	228.7	184.2
9	BL 900	186.7	193.3	221.7	263.7	216.3	211.1	210.7	194.0	192.6	200.3	201.7	203.0	224.2	185.3	188.3	235.0	213.3	208.2	278.7	210.7	244.7	212.5
10	KH 517	197.7	145.0	163.3	216.7	180.7	175.7	184.7	155.3	184.7	175.0	175.1	173.5	185.6	139.3	155.0	214.0	178.1	174.3	270.7	165.7	218.2	181.2
11	CSM2	205.0	146.7	186.7	242.3	195.2	201.7	208.3	189.7	172.1	185.3	191.4	183.5	229.7	162.0	191.7	226.3	206.4	199.9	277.3	168.7	223.0	199.0
	CHECKS																						
12	Bio9637-C	199.7	156.7	183.3	248.0	196.9	206.3	220.0	184.0	178.9	192.7	196.4	193.0	212.8	164.7	183.3	232.7	214.0	200.1	280.7	165.7	223.2	201.0
	Loc. Mean	**195.9**	**156.7**	**180.9**	**238.9**	**193.1**	**190.8**	**206.3**	**172.8**	**180.1**	**184.3**	**186.8**	**176.7**	**208.0**	**180.6**	**172.6**	**218.9**	**198.5**	**192.6**	**271.3**	**167.7**	**219.5**	**194.2**
	C.D. (5%)	3.60	5.16	23.13	10.76	18.88	14.17	16.70	13.84	22.89	6.78	10.27	9.37	8.27	13.14	19.24	15.13	8.18	11.95	27.00	6.77	32.66	7.63
	C.V. (%)	1.08	1.94	7.55	2.66	6.80	4.39	4.78	4.73	7.51	2.17	4.31	3.13	2.35	4.30	6.58	4.08	2.43	5.36	5.88	2.38	6.76	5.81
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.29	0.00

		EAR HEIGHT(cm)																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	GPS MAINA	92.0	76.7	98.3	96.7	90.9	74.9	89.7	66.3	69.3	89.3	77.9	94.0	109.4	78.3	76.7	92.3	97.3	91.3	115.4	66.7	91.0	87.3
2	BL 798	96.0	75.0	101.7	115.3	97.0	70.8	101.3	69.3	79.7	68.7	78.0	90.0	107.4	104.7	78.3	92.3	82.7	92.6	117.1	74.3	95.7	89.7
3	DMRH1307	99.3	75.0	106.7	102.7	95.9	93.0	102.7	88.7	94.9	94.3	94.7	87.0	123.9	97.3	90.0	111.0	104.0	102.2	112.0	84.3	98.2	98.0
4	IM 8303(DKC9166)	94.0	63.3	80.0	100.3	84.4	58.3	92.3	68.0	82.8	73.7	75.0	76.5	94.9	84.0	68.3	88.3	95.8	84.6	112.3	86.7	99.5	83.5
5	DMRH1306	98.0	85.0	100.0	110.0	98.3	74.4	102.3	78.0	66.2	87.7	81.7	81.5	126.6	95.0	78.3	101.0	101.3	97.3	110.5	77.7	94.1	92.6
6	DMRH1302	96.3	45.0	105.0	117.0	90.8	61.9	87.7	62.3	83.0	87.3	76.4	77.5	95.9	80.3	66.7	87.0	81.4	81.5	112.3	84.3	98.3	84.2
7	BL 147	91.0	90.0	100.0	108.3	97.3	85.8	112.0	85.3	90.2	83.3	91.3	85.0	124.9	99.0	81.7	108.3	101.8	100.1	114.0	93.7	103.8	97.3
8	DMRH1301	99.0	61.7	78.3	90.7	82.4	65.2	97.7	74.0	79.1	84.7	80.1	67.0	94.5	74.0	60.0	96.0	84.7	79.4	113.8	86.0	99.9	82.7
9	BL 900	87.7	80.0	108.3	119.0	98.7	86.1	102.7	86.3	86.2	99.7	92.2	99.0	126.4	83.0	83.3	114.0	100.9	101.1	119.0	88.0	103.5	98.2
10	KH 517	98.3	75.0	83.3	97.0	88.4	87.2	98.0	79.0	91.1	92.7	89.6	91.0	103.3	68.0	70.0	103.3	97.1	88.8	112.3	86.7	99.5	90.2
11	CSM2	102.7	78.3	106.7	107.7	98.8	92.2	109.3	94.7	83.6	96.7	95.3	93.5	125.7	65.3	80.0	110.3	103.9	96.4	118.7	74.7	96.7	96.7
	CHECKS																						
12	Bio9637-C	100.0	56.7	108.3	112.3	94.3	93.2	110.7	78.3	81.9	105.3	93.9	97.5	120.7	65.7	90.0	109.0	102.5	97.6	120.4	77.0	98.7	95.9
	Loc. Mean	**96.2**	**71.8**	**98.1**	**106.4**	**93.1**	**78.6**	**100.5**	**77.5**	**82.3**	**88.6**	**85.5**	**86.6**	**112.8**	**82.9**	**76.9**	**101.1**	**96.1**	**92.7**	**114.8**	**81.7**	**98.2**	**91.4**
	C.D. (5%)	3.45	3.10	16.52	7.68	13.30	19.14	10.45	10.31	11.83	7.58	8.57	6.79	4.76	11.20	21.93	7.38	3.89	9.53	9.17	3.89	14.30	5.49
	C.V. (%)	2.12	2.55	9.95	4.26	9.93	14.38	6.14	7.85	8.49	5.05	7.86	4.63	2.49	7.98	16.83	4.31	2.39	8.88	4.72	2.81	6.61	8.88
	F (Prob)	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.41	0.00	0.78	0.00

TABLE No. 5: **Performance of early maturing experimental hybrids at Kanpur, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Karimnagar, Kolhapur, Mandya, Vagarai, Banswara, Godhra in AVT1&2 Trial No. 69 (AVT1&2 Early) during Rabi (2014-15)**

	GRAIN YIELD (kg/ha) AT 15% MOISTURE																					
Sl									ZN 2												ZN 3	
No PEDIGREE	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R
1 HKH 336	7324	2	11073	3	11374	2	12127	2	10475	3	6087	4	5737	2	6373	2	4868	5	8136	4	6240	4
2 KH K25	7031	4	12641	1	10956	4	13328	1	10989	1	9717	1	5579	3	6832	1	6233	2	10606	1	7793	1
3 HKH 329	7047	3	10385	4	11041	3	9745	5	9554	4	7190	2	5812	1	5620	4	5838	4	8826	3	6657	3
4 HKH 330	7393	1	12479	2	12024	1	11375	3	10818	2	6858	3	5383	4	6349	3	6427	1	10147	2	7033	2
CHECKS																						
5 Prakash	5727	5	8981	5	8742	5	10779	4	8557	5	5827	5	5287	5	5133	5	6097	3	7297	5	5929	5
Location Mean	**6904**		**11112**		**10827**		**11471**		**10079**		**7136**		**5560**		**6061**		**5893**		**9003**		**6730**	
C.D. (5%)	479		303		1450		963		799		627		255		1305		711		713		722	
C.V. (%)	3.59		1.75		8.6		5.4		-		5.65		2.95		13.83		7.75		5.09		-	
F (Prob)	0		0		0.002		0				0		0.001		0.07		0.002		0			
Plot Size	14.4		14.4		14.4		18		-		14.4		14.4		16.8		11.2		14.4		-	
AGRONOMY DATA																						
Sowing Date	8-12		22-11		5-02		2-12		-		23-11		9-12		26-11		5-12		22-11		-	
Harvest Date	20-05		24-05		12-06		29-05		-		7-05		23-04		12-05		3-06		10-05		-	
Irrigation Nos	4		7		12		6		-		5		-		3		8		3		-	
Ferilizer Applied N	120		150		70		120		-		150		120		150		140		150		-	
Ferilizer Applied P	60		60		24		60		-		75		60		70		60		75		-	
Ferilizer Applied K	50		60		12		40		-		60		60		60		40		60		-	

TABLE No. 5: **(Cont…)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																					
		ARBH	R	COIM	R	KARI	R	KOLH	R	MAND	R	VAGA	R	ZN 4 MEAN	R	BANS	R	GODH	R	ZN 5 MEAN	R	OV'L MEAN	R
1	HKH 336	6407	4	9667	3	8167	2	4143	5	6078	4	2772	4	6206	4	8740	3	5469	2	7105	1	7326	3
2	KH K25	8239	1	10311	2	7784	4	6346	1	7303	1	3852	1	7306	1	8189	5	5852	1	7020	2	8282	1
3	HKH 329	7199	3	8459	5	8787	1	4633	3	5499	5	3190	2	6294	3	8913	2	4715	4	6814	4	7229	4
4	HKH 330	7939	2	10387	1	8022	3	4382	4	6634	3	2491	5	6642	2	10095	1	3714	5	6904	3	7770	2
	CHECKS																						
5	Prakash	3734	5	8804	4	7311	5	4972	2	6954	2	3129	3	5817	5	8282	4	5261	3	6772	5	6607	5
	Location Mean	**6704**		**9525**		**8014**		**4895**		**6494**		**3087**		**6453**		**8844**		**5002**		**6923**		**7443**	
	C.D. (5%)	1222		452		1334		937		827		232		834		624		723		674		774	
	C.V. (%)	11.71		3.05		10.7		12.3		8.18		4.83		-		4.54		7.49		-		-	
	F (Prob)	0		0		0.186		0.002		0.002		0				0		0.002					
	Plot Size	14.4		14.4		16.8		18		14		14.4		-		14.4		14.4		-		-	
	AGRONOMY DATA																						
	Sowing Date	26-11		19-12		30-11		29-12		12-10		20-01		-		30-11		5-12		-		-	
	Harvest Date	18-04		3-04		16-04		6-12		30-04		8-05		-		5-05		19-05		-		-	
	Irrigation Nos	8		10		10		-		12		8		-		6		8		-		-	
	Ferilizer Applied N	150		150		240		120		150		150		-		150		100		-		-	
	Ferilizer Applied P	75		75		80		60		75		75		-		80		50		-		-	
	Ferilizer Applied K	37.5		75		80		40		40		75		-		-		-		-		-	

TABLE No. 5 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Prakash																					
		KANP	KARN	LUDH	PANT	ZN 2 MEAN	BAHR	BHUB	DHOL	RANC	VARA	ZN 3 MEAN	ARBH	COIM	KARI	KOLH	MAND	VAGA	ZN 4 MEAN	BANS	GODH	ZN 5 MEAN	OV'L MEAN
1	HKH 336	27.9	23.3	30.1	12.5	22.4	4.5	8.5	24.1	-	11.5	5.3	71.6	9.8	11.7	-	-	-	6.7	5.5	4	4.9	10.9
2	KH K25	22.8	40.8	25.3	23.6	28.4	66.7	5.5	33.1	2.2	45.3	31.5	120.7	17.1	6.5	27.6	5	23.1	25.6	-	11.2	3.7	25.4
3	HKH 329	23	15.6	26.3	-	11.7	23.4	9.9	9.5	-	21	12.3	92.8	-	20.2	-	-	1.9	8.2	7.6	-	0.6	9.4
4	HKH 330	29.1	39	37.5	5.5	26.4	17.7	1.8	23.7	5.4	39	18.6	112.6	18	9.7	-	-	-	14.2	21.9	-	2	17.6
	CHECKS																						
5	Prakash	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

S.No	PEDIGREE	MOISTURE % AT HARVEST																					
		KANP	KARN	LUDH	PANT	ZN 2 Mean	BAHR	BHUB	DHOL	RANC	VARA	ZN 3 Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	HKH 336	15.7	31.3	27.4	15.4	22.4	20.6	19.9	15.2	20.1	25.0	20.1	17.9	20.0	6.6	11.5	14.0	18.0	14.6	17.5	13.4	15.5	18.2
2	KH K25	14.7	26.5	21.5	17.1	19.9	21.5	21.2	15.9	19.2	22.7	20.1	18.8	21.7	7.1	12.0	13.2	17.3	15.0	17.8	14.5	16.2	17.8
3	HKH 329	14.7	28.7	24.7	17.2	21.3	21.3	19.5	15.4	18.0	23.3	19.5	21.0	20.8	8.3	11.4	13.1	16.7	15.2	17.7	14.9	16.3	18.0
4	HKH 330	14.3	29.8	25.4	16.2	21.4	21.4	19.3	14.5	19.4	23.0	19.5	21.0	20.2	8.4	11.1	12.4	17.0	15.0	17.5	15.3	16.4	18.0
	CHECKS																						
5	Prakash	16.0	30.4	26.5	16.2	22.3	19.9	19.4	13.7	19.7	22.9	19.1	14.9	19.9	11.3	10.9	11.6	16.3	14.1	17.5	15.1	16.3	17.8
	Loc. Mean	**15.1**	**29.3**	**25.1**	**16.4**	**21.5**	**20.9**	**19.8**	**14.9**	**19.2**	**23.4**	**19.7**	**18.7**	**20.5**	**8.3**	**11.3**	**12.8**	**17.1**	**14.8**	**17.6**	**14.6**	**16.1**	**17.9**
	C.D. (5%)	1.14	0.37	0.71	0.83	2.10	1.31	0.51	0.28	0.50	0.64	1.01	1.16	0.73	0.89	0.84	0.20	1.15	1.76	0.29	0.62	1.49	0.85
	C.V. (%)	4.02	0.82	1.50	3.29	6.34	4.06	1.67	1.22	1.67	1.78	3.85	4.01	2.32	6.93	4.82	1.01	4.37	9.86	1.06	2.27	3.34	6.89
	F (Prob)	0.04	0.00	0.00	0.00	0.15	0.09	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.11	0.00	0.07	0.73	0.12	0.00	0.50	0.85

S.No	PEDIGREE	GRAIN SHELLING %																					
		KANP	KARN	LUDH	PANT	ZN 2 Mean	BAHR	BHUB	DHOL	RANC	VARA	ZN 3 Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	HKH 336	74.3	80.5	92.8	81.3	82.2	76.0	81.1	81.0	82.0	73.5	78.7	82.5	77.8	82.0	68.9	81.8	77.4	78.4	79.8	85.0	82.4	79.9
2	KH K25	75.7	83.1	88.0	85.0	82.9	81.3	80.8	80.0	84.2	78.5	81.0	83.5	80.6	82.1	86.0	81.9	79.6	82.3	78.0	85.2	81.6	82.0
3	HKH 329	76.0	81.4	84.2	78.9	80.1	79.9	80.1	79.0	83.4	73.5	79.2	82.3	77.5	82.4	83.3	82.1	78.0	80.9	79.9	75.5	77.7	79.8
4	HKH 330	77.7	82.4	83.0	80.2	80.8	79.4	80.0	80.0	82.7	73.5	79.1	82.3	79.0	83.9	69.6	81.5	75.2	78.6	80.9	80.5	80.7	79.5
	CHECKS																						
5	Prakash	78.0	80.2	86.0	83.4	81.9	78.0	80.9	75.0	87.8	80.0	80.3	83.6	80.7	82.2	78.3	81.0	77.4	80.5	79.2	82.8	81.0	80.8
	Loc. Mean	**76.3**	**81.5**	**86.8**	**81.7**	**81.6**	**78.9**	**80.6**	**79.0**	**84.0**	**75.8**	**79.7**	**82.8**	**79.1**	**82.5**	**77.2**	**81.6**	**77.5**	**80.1**	**79.5**	**81.8**	**80.7**	**80.4**
	C.D. (5%)	1.91	0.35	-	1.80	3.93	0.52	0.71	-	1.32	1.05	3.06	1.41	0.73	1.47	1.24	0.82	1.15	3.82	0.70	5.63	9.11	1.85
	C.V. (%)	1.33	0.28	-	1.43	3.13	0.43	0.57	-	1.02	0.90	2.86	1.10	0.60	1.16	1.04	0.65	0.96	3.95	0.57	3.65	4.07	3.35
	F (Prob)	0.01	0.00	-	0.00	0.55	0.00	0.02	-	0.00	0.00	0.51	0.14	0.00	0.09	0.00	0.11	0.00	0.21	0.00	0.02	0.69	0.06

Table No. 5 (Continued)

STAND AT HARVEST ('000/ha)

S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	ZN 2 Mean	BAHR	BHUB	DHOL	RANC	VARA	ZN 3 Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	HKH 336	75.9	78.8	82.3	67.4	76.1	67.9	63.9	72.0	58.9	79.5	68.4	63.5	66.5	56.3	48.8	67.5	51.7	59.0	64.6	75.9	70.3	67.1
2	KH K25	74.8	80.0	80.6	69.4	76.2	67.7	64.9	66.8	61.2	76.6	67.4	66.5	66.7	63.7	50.0	61.8	58.9	61.2	64.1	77.5	70.8	67.7
3	HKH 329	75.7	80.2	78.3	67.1	75.3	64.6	63.7	70.2	62.5	79.5	68.1	64.8	66.5	59.5	50.6	61.4	54.7	59.6	66.0	75.0	70.5	67.1
4	HKH 330	75.5	80.2	82.3	67.1	76.3	65.5	62.7	70.8	64.1	79.5	68.5	63.4	66.1	62.4	50.7	68.6	50.9	60.3	68.6	69.4	69.0	67.5
	CHECKS																						
5	Prakash	75.0	79.2	78.6	67.1	75.0	62.8	63.5	71.7	65.0	81.1	68.8	58.0	66.7	62.2	51.0	67.3	54.2	59.9	64.8	70.6	67.7	67.0
	Loc. Mean	**75.4**	**79.7**	**80.4**	**67.6**	**75.8**	**65.7**	**63.8**	**70.3**	**62.3**	**79.2**	**68.3**	**63.2**	**66.5**	**60.8**	**50.2**	**65.3**	**54.1**	**60.0**	**65.6**	**73.7**	**69.6**	**67.3**
	C.D. (5%)	1.26	2.00	8.31	1.62	1.78	4.80	2.14	2.74	4.56	3.62	2.73	8.48	0.35	4.49	2.79	3.00	1.83	3.28	2.39	3.22	9.70	1.52
	C.V. (%)	0.89	1.63	6.71	1.56	1.53	4.74	2.18	2.52	4.75	2.97	2.98	8.70	0.34	4.79	3.60	2.98	2.20	4.54	2.36	2.32	5.02	3.29
	F (Prob)	0.28	0.44	0.73	0.03	0.43	0.18	0.31	0.01	0.09	0.17	0.85	0.31	0.04	0.02	0.47	0.00	0.00	0.69	0.01	0.00	0.88	0.85

DAYS TO 50% POLLEN SHED

S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	ZN 2 Mean	BAHR	BHUB	DHOL	RANC	VARA	ZN 3 Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	ZN 4 Mean	BANS	GODH	ZN 5 Mean	OV'L Mean
1	HKH 336	89.7	134.3	76.8	118.8	104.9	125.0	61.3	110.3	116.0	113.3	105.2	76.0	52.3	71.5	73.0	61.3	49.5	63.9	94.0	85.0	89.5	88.7
2	KH K25	87.0	137.0	77.0	122.3	105.8	124.0	61.5	112.5	116.0	110.3	104.9	73.8	53.0	70.5	73.0	62.8	50.5	63.9	95.8	87.0	91.4	89.0
3	HKH 329	91.3	132.0	77.0	119.5	105.0	124.0	64.0	110.5	119.0	114.8	106.5	76.8	52.5	70.8	75.0	63.0	50.5	64.8	95.8	88.7	92.2	89.7
4	HKH 330	94.3	132.0	78.5	118.0	105.7	126.5	65.0	113.3	119.5	114.8	107.8	76.5	53.5	70.3	74.0	62.0	52.0	64.7	95.3	89.7	92.5	90.3
	CHECKS																						
5	Prakash	87.7	131.3	74.0	116.0	102.2	121.0	60.0	106.5	110.0	107.0	100.9	68.0	49.0	65.8	69.0	58.0	46.3	59.3	93.3	89.3	91.3	85.4
	Loc. Mean	**90.0**	**133.3**	**76.7**	**118.9**	**104.7**	**124.1**	**62.4**	**110.6**	**116.1**	**112.0**	**105.0**	**74.2**	**52.1**	**69.8**	**72.8**	**61.4**	**49.8**	**63.3**	**94.8**	**87.9**	**91.4**	**88.6**
	C.D. (5%)	3.73	0.64	1.41	1.12	3.30	2.21	1.35	5.35	1.19	0.66	1.80	1.27	0.66	1.74	-	1.53	1.23	1.18	2.44	1.82	4.22	1.11
	C.V. (%)	2.20	0.31	1.19	0.61	2.04	1.16	1.40	3.14	0.67	0.38	1.28	1.11	0.82	1.62	-	1.62	1.60	1.55	1.67	1.10	1.66	1.83
	F (Prob)	0.01	0.00	0.00	0.00	0.19	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.16	0.00	0.44	0.00

Table No. 5 (Continued)

		DAYS TO 50% SILKING																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	HKH 336	93.7	135.3	78.5	121.8	107.3	127.0	63.0	113.0	119.5	117.0	107.9	78.3	54.3	72.8	74.0	63.8	52.8	66.0	97.0	87.0	92.0	91.1
2	KH K25	91.0	139.0	79.3	125.3	108.6	126.0	62.5	115.5	120.5	114.8	107.9	76.5	55.0	73.0	74.0	66.0	54.3	66.5	99.3	89.0	94.1	91.8
3	HKH 329	95.0	133.3	78.5	122.5	107.3	126.0	65.5	112.8	124.0	118.0	109.3	78.5	54.5	72.0	76.0	66.8	54.0	67.0	99.0	90.3	94.7	92.2
4	HKH 330	99.0	133.8	77.8	120.5	107.8	128.5	66.5	114.8	124.3	117.0	110.2	78.3	55.5	71.5	75.0	65.5	55.5	66.9	99.0	90.7	94.8	92.5
	CHECKS																						
5	Prakash	92.3	133.3	76.0	119.5	105.3	122.0	61.5	109.0	115.0	111.3	103.8	71.0	51.0	67.0	70.0	61.3	50.0	61.7	96.3	90.3	93.3	88.0
	Loc. Mean	**94.2**	**134.9**	**78.0**	**121.9**	**107.3**	**125.9**	**63.8**	**113.0**	**120.7**	**115.6**	**107.8**	**76.5**	**54.1**	**71.3**	**73.8**	**64.7**	**53.3**	**65.6**	**98.1**	**89.5**	**93.8**	**91.1**
	C.D. (5%)	3.19	0.84	1.04	1.34	3.52	2.21	1.87	5.29	1.24	0.96	1.89	1.20	0.66	1.64	-	2.19	1.43	1.13	2.42	1.67	3.39	1.12
	C.V. (%)	1.80	0.41	0.87	0.71	2.13	1.14	1.90	3.04	0.67	0.54	1.31	1.02	0.79	1.49	-	2.20	1.74	1.43	1.60	0.99	1.30	1.79
	F (Prob)	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.06	0.00	0.29	0.00

		DAYS TO 75% DRY HUSK																					
					ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	HKH 336	135.7	169.0	112.5	139.1	159.5	102.5	141.5	156.0	154.3	142.8	124.0	93.0	102.8	106.0	106.5	85.5	103.0	131.3	131.3	131.3	125.7
2	KH K25	138.7	170.5	113.5	140.9	159.0	94.5	143.3	155.8	150.8	140.7	120.8	93.5	103.0	106.0	106.0	86.8	102.7	130.5	133.0	131.8	125.3
3	HKH 329	140.7	172.5	117.0	143.4	163.0	106.0	147.0	159.3	156.0	146.3	123.5	93.3	102.0	108.0	109.3	87.3	103.9	131.5	132.3	131.9	128.0
4	HKH 330	142.0	170.5	117.3	143.3	160.5	107.5	141.8	159.5	157.3	145.3	125.0	94.5	101.5	107.0	106.5	89.3	104.0	132.3	132.0	132.1	127.8
	CHECKS																					
5	Prakash	136.0	171.8	113.3	140.3	156.0	94.5	138.8	151.0	148.8	137.8	114.5	90.3	97.0	102.0	106.3	84.3	99.0	130.3	136.7	133.5	123.2
	Loc. Mean	**138.6**	**170.9**	**114.7**	**141.4**	**159.6**	**101.0**	**142.5**	**156.3**	**153.4**	**142.6**	**121.6**	**92.9**	**101.3**	**105.8**	**106.9**	**86.6**	**102.5**	**131.2**	**133.1**	**132.1**	**126.0**
	C.D. (5%)	3.74	0.69	1.83	2.64	1.80	1.93	2.57	1.80	2.59	2.94	1.50	1.74	1.64	-	2.07	1.71	1.92	2.29	4.33	5.36	1.56
	C.V. (%)	1.43	0.26	1.03	0.99	0.73	1.24	1.17	0.75	1.09	1.54	0.80	1.22	1.05	-	1.26	1.28	1.56	1.13	1.73	1.46	1.75
	F (Prob)	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.03	0.00	0.00	0.37	0.13	0.83	0.00

Table No. 5 (Continued)

		PLANT HEIGHT(cm)																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	HKH 336	198.3	186.3	177.5	216.5	194.6	160.2	207.0	164.8	158.5	167.5	171.6	149.3	195.7	185.0	138.8	188.8	153.1	168.4	260.7	170.7	215.7	181.1
2	KH K25	183.0	171.3	180.0	241.5	193.9	183.2	212.5	176.8	181.3	176.3	186.0	155.8	195.9	193.0	142.5	197.0	155.2	173.2	263.0	185.7	224.3	187.9
3	HKH 329	184.7	167.5	166.3	217.8	184.0	161.7	195.5	148.3	161.7	155.8	164.6	143.8	196.5	177.5	150.0	184.0	170.9	170.4	255.7	175.0	215.4	177.2
4	HKH 330	203.0	190.0	187.5	247.8	207.1	165.8	207.5	180.3	178.4	189.5	184.3	160.0	190.8	204.8	150.0	207.5	172.2	180.9	260.7	152.3	206.5	191.0
	CHECKS																						
5	Prakash	196.0	161.3	151.3	226.0	183.6	158.4	194.8	153.5	169.8	155.0	166.3	139.0	193.3	166.0	146.3	189.8	168.3	167.1	264.2	185.7	224.9	177.6
	Loc. Mean	**193.0**	**175.3**	**172.5**	**229.9**	**192.7**	**165.9**	**203.5**	**164.7**	**169.9**	**168.8**	**174.5**	**149.6**	**194.4**	**185.3**	**145.5**	**193.4**	**163.9**	**172.0**	**260.8**	**173.9**	**217.4**	**182.9**
	C.D. (5%)	16.09	6.25	12.68	35.50	14.30	11.86	11.17	14.48	6.60	12.17	8.70	9.06	6.49	15.26	16.14	13.13	6.34	9.45	20.06	20.79	25.39	6.23
	C.V. (%)	4.43	2.31	4.77	10.02	4.82	4.64	3.56	5.71	2.52	4.68	3.72	3.93	2.17	5.35	7.20	4.41	2.51	4.56	4.99	6.35	4.21	4.97
	F (Prob)	0.08	0.00	0.00	0.26	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.51	0.02	0.00	0.05	0.90	0.03	0.38	0.00

		EAR HEIGHT(cm)																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	HKH 336	90.0	77.5	106.3	114.5	97.1	65.7	130.8	82.5	66.6	90.3	87.2	71.0	109.5	85.0	62.5	87.5	78.3	82.3	134.2	56.0	134.2	90.7
2	KH K25	88.3	75.0	77.5	95.0	84.0	78.0	102.3	83.8	82.7	95.3	88.4	71.0	108.9	91.8	58.8	93.5	83.7	84.6	133.1	89.0	133.1	88.7
3	HKH 329	93.3	70.0	81.3	83.0	81.9	60.7	105.8	65.0	72.5	76.5	76.1	70.3	109.7	88.8	58.8	85.8	85.3	83.1	136.7	93.0	136.7	83.9
4	HKH 330	98.7	106.3	88.8	105.3	99.7	62.7	103.0	78.3	75.2	88.3	81.5	68.8	96.5	96.0	55.0	87.5	84.9	81.4	133.1	74.0	133.1	89.3
	CHECKS																						
5	Prakash	93.7	68.8	76.3	96.8	83.9	73.6	111.5	75.8	74.8	79.5	83.0	64.5	112.3	74.8	68.8	91.0	95.7	84.5	137.7	89.0	137.7	87.2
	Loc. Mean	**92.8**	**79.5**	**86.0**	**98.9**	**89.3**	**68.2**	**110.7**	**77.1**	**74.3**	**86.0**	**83.2**	**69.1**	**107.4**	**87.3**	**60.8**	**89.1**	**85.6**	**83.2**	**134.9**	**80.2**	**134.9**	**88.0**
	C.D. (5%)	4.57	3.37	16.34	10.18	14.37	14.46	8.86	12.12	7.23	11.29	10.02	8.88	7.91	9.37	16.33	7.84	3.37	7.16	22.95	31.46	22.95	5.70
	C.V. (%)	2.61	2.75	12.33	6.68	10.45	13.77	5.20	10.21	6.31	8.52	8.98	8.35	4.78	6.97	17.44	5.71	2.56	7.14	11.04	20.83	11.04	9.16
	F (Prob)	0.01	0.00	0.01	0.00	0.05	0.10	0.00	0.04	0.01	0.02	0.12	0.50	0.01	0.00	0.46	0.26	0.00	0.86	0.99	0.12	0.99	0.18

Locations Rejected due to High C.V.(i.e.> 20%) : GODHRA 20.8%

TABLE No. 6: **Performance of late maturing experimental hybrids at Kanpur, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Karimnagar, Kolhapur, Mandya, Vagarai, Banswara, Godhra in AVT2 Trial No. 7 (AVT2-Late) during Rabi (2014-15)**

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																				
Sl										ZN 2												ZN 3
No	PEDIGREE	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R
1	X35C537	7043	4	9415	17	16969	1	13742	11	11793	2	9837	5	6174	8	11743	1	9513	1	11302	3	9714	1
2	GK 3150	6730	10	10494	10	15625	2	13910	10	11690	4	10225	4	5830	12	9683	8	7224	7	11430	1	8878	6
3	Ivori	5990	17	10661	7	11774	17	15935	3	11090	12	9125	12	5646	15	11163	5	6703	11	10632	6	8654	8
4	KMH 2589	6626	11	9582	16	15106	5	13118	15	11108	11	9556	9	5937	10	8909	11	9237	3	8778	13	8483	11
5	TH 22	7013	7	10465	12	10796	19	13232	14	10377	18	10924	1	5970	9	8658	13	5069	18	8209	14	7766	13
6	P3533	5440	19	11077	2	15130	3	14455	7	11525	7	9508	10	5326	18	11620	2	8517	5	11161	4	9226	3
7	BiscoX6573	7393	2	10191	14	13849	9	14010	9	11361	8	9807	7	5788	13	9121	10	8549	4	9414	11	8536	10
8	JH 270	6046	16	10473	11	11656	18	13556	13	10433	17	7028	19	5377	17	7927	15	6725	10	7353	18	6882	19
9	DKC 9120	6852	8	10642	8	12956	13	16012	2	11615	5	9244	11	6430	6	11287	3	9418	2	10744	5	9424	2
10	Venus	6297	15	9293	18	13903	8	15043	5	11134	10	10409	2	6255	7	8720	12	7238	6	10082	10	8541	9
11	TH 2	7037	5	11453	1	14478	7	16508	1	12369	1	10306	3	7318	1	10490	7	5888	17	10082	9	8817	7
12	PMH 189	7323	3	10858	6	13425	10	11903	18	10877	13	8211	17	6626	4	7471	19	6413	14	7891	16	7323	16
13	PMH 2277	6476	13	10949	3	12134	16	11207	19	10191	19	8208	18	6536	5	7860	16	6112	16	8161	15	7375	14
14	IL 8212	6331	14	10394	13	15124	4	14965	6	11704	3	8574	15	6753	3	10933	6	6976	8	11409	2	8929	5
15	IL 8534	7436	1	10563	9	14836	6	12198	17	11258	9	9822	6	7019	2	11196	4	6460	13	10511	7	9001	4
16	Megan-G	7023	6	9260	19	12630	14	13576	12	10622	15	9684	8	5509	16	9301	9	6846	9	10438	8	8356	12
	CHECKS																						
17	Seedtech 2324	5868	18	10915	4	12985	12	12690	16	10614	16	8433	16	5675	14	7939	14	6295	15	7429	17	7154	17
18	Bio 9681	6539	12	9675	15	12154	15	14244	8	10653	14	9116	13	5834	11	7654	18	4854	19	9230	12	7338	15
19	Buland	6830	9	10859	5	13148	11	15550	4	11597	6	8944	14	4860	19	7788	17	6530	12	7271	19	7079	18
	Location Mean	**6647**		**10380**		**13615**		**13992**		**11158**		**9314**		**6045**		**9445**		**7082**		**9554**		**8288**	
	C.D. (5%)	318		249		2884		1601		1263		1115		281		2560		1094		758		1161	
	C.V. (%)	2.88		1.45		12.78		6.9		-		7.22		2.8		16.35		7.32		4.79		-	
	F (Prob)	0		0		0.01		0				0		0		0.003		0		0			
	Plot Size	14.4		18		14.4		18		-		14.4		14.4		16.8		11.2		14.4		-	
	AGRONOMY DATA																						
	Sowing Date	8-12		23-11		4-02		2-12		-		22-11		9-12		27-11		6-12		23-11		-	
	Harvest Date	20-05		26-05		11-06		1-06		-		9-05		28-04		4-06		5-06		15-05		-	
	Irrigation Nos	4		9		12		6		-		5		-		3		8		3		-	
	Ferilizer Applied N	120		150		70		120		-		150		120		150		140		150		-	
	Ferilizer Applied P	60		60		24		60		-		75		60		70		60		75		-	
	Ferilizer Applied K	50		60		12		40		-		60		60		-		40		60		-	

TABLE No. 6: (Cont…)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE ARBH	R	COIM	R	KARI	R	KOLH	R	MAND	R	VAGA	R	ZN 4 MEAN	R	BANS	R	GODH	R	ZN 5 MEAN	R	OV'L MEAN	R
1	X35C537	7799	7	10023	16	11741	3	7695	3	7318	8	3234	18	7968	8	9964	5	2615	7	6290	5	9184	3
2	GK 3150	6643	13	10933	11	11352	4	7679	4	6604	16	6445	3	8276	6	9239	13	2631	6	5935	9	8981	5
3	Ivori	6183	15	10218	15	10395	8	6043	13	7780	3	6473	2	7849	10	9186	14	2465	9	5825	11	8610	10
4	KMH 2589	7844	6	11694	6	10086	10	7079	6	7619	5	6105	5	8405	4	9860	6	2166	14	6013	7	8782	9
5	TH 22	8670	4	12032	4	8161	17	6127	12	6803	12	3716	14	7585	11	9694	7	3377	3	6536	2	8172	13
6	P3533	9684	2	12746	1	9698	12	7519	5	6779	13	5428	10	8642	3	9676	8	2213	13	5944	8	9175	4
7	BiscoX6573	7728	8	10765	13	10591	6	7936	2	7038	11	5628	8	8281	5	9422	12	3206	4	6314	4	8849	6
8	JH 270	7091	12	11369	8	9061	13	5358	18	6756	14	4718	12	7392	13	10084	3	1471	18	5777	13	7768	19
9	DKC 9120	7917	5	12249	3	10066	11	8708	1	7747	4	5544	9	8705	2	9492	11	1612	17	5552	17	9231	2
10	Venus	4558	18	9917	17	10100	9	6424	11	7805	2	5420	11	7371	14	10008	4	2254	11	6131	6	8454	11
11	TH 2	5488	17	11218	9	10477	7	5755	15	8353	1	6095	6	7898	9	7076	19	2260	10	4668	19	8840	7
12	PMH 189	7583	9	11122	10	8178	16	5463	16	6291	17	3168	19	6968	18	9118	15	2227	12	5673	16	7840	16
13	PMH 2277	7244	11	10925	12	7220	18	6984	8	7455	7	3572	16	7234	15	9634	9	2048	15	5841	10	7807	17
14	IL 8212	10445	1	8260	19	10760	5	5102	19	7230	10	6281	4	8013	7	7602	18	3140	5	5371	18	8840	8
15	IL 8534	9068	3	10352	14	13331	1	7069	7	7527	6	6817	1	9027	1	10738	1	5235	1	7987	1	9422	1
16	Megan-G	4397	19	9829	18	11890	2	6619	10	6692	15	5629	7	7509	12	9115	16	2474	8	5794	12	8289	12
	CHECKS																						
17	Seedtech 2324	7398	10	11674	7	9013	14	5378	17	6015	18	3888	13	7227	17	8970	17	3789	2	6380	3	7903	15
18	Bio 9681	6536	14	11915	5	6656	19	5877	14	7257	9	3326	17	6928	19	10118	2	1404	19	5761	14	7788	18
19	Buland	5796	16	12550	2	8757	15	6937	9	5670	19	3668	15	7230	16	9525	10	1974	16	5749	15	8039	14
	Location Mean	**7267**		**11042**		**9870**		**6619**		**7091**		**5008**		**7816**		**9396**		**2556**		**5976**		**8525**	
	C.D. (5%)	2025		610		1366		1505		481		894		1147		658		557		608		1115	
	C.V. (%)	16.81		3.33		8.35		13.72		4.09		10.76		-		4.23		13.15		-		-	
	F (Prob)	0		0		0		0		0		0				0		0					
	Plot Size	14.4		16.8		16.8		18		14		14.4		-		14.4		9.6		-		-	
	AGRONOMY DATA																						
	Sowing Date	26-11		30-11		30-11		30-12		12-10		29-01		-		30-11		2-01		-		-	
	Harvest Date	20-04		17-04		18-04		6-10		5-04		25-05		-		9-05		20-05		-		-	
	Irrigation Nos	8		10		15		-		12		12		-		6		8		-		-	
	Ferilizer Applied N	150		150		240		120		150		150		-		150		100		-		-	
	Ferilizer Applied P	75		75		80		60		75		75		-		80		50		-		-	
	Ferilizer Applied K	37.5		75		80		40		40		75		-		-		-		-		-	

TABLE No. 6 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seedtech 2324																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
		KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	KARI	KOLH	MAND	VAGA	MEAN	BANS	GODH	MEAN	MEAN
1	X35C537	20	-	30.7	8.3	11.1	16.7	8.8	47.9	51.1	52.1	35.8	5.4	-	30.3	43.1	21.7	-	10.3	11.1	-	-	16.2
2	GK 3150	14.7	-	20.3	9.6	10.1	21.2	2.7	22	14.8	53.9	24.1	-	-	26	42.8	9.8	65.8	14.5	3	-	-	13.6
3	Ivori	2.1	-	-	25.6	4.5	8.2	-	40.6	6.5	43.1	21	-	-	15.3	12.4	29.3	66.5	8.6	2.4	-	-	8.9
4	KMH 2589	12.9	-	16.3	3.4	4.6	13.3	4.6	12.2	46.7	18.2	18.6	6	0.2	11.9	31.6	26.7	57	16.3	9.9	-	-	11.1
5	TH 22	19.5	-	-	4.3	-	29.5	5.2	9.1	-	10.5	8.6	17.2	3.1	-	13.9	13.1	-	4.9	8.1	-	2.4	3.4
6	P3533	-	1.5	16.5	13.9	8.6	12.7	-	46.4	35.3	50.2	29	30.9	9.2	7.6	39.8	12.7	39.6	19.6	7.9	-	-	16.1
7	BiscoX6573	26	-	6.7	10.4	7	16.3	2	14.9	35.8	26.7	19.3	4.5	-	17.5	47.6	17	44.8	14.6	5	-	-	12
8	JH 270	3	-	-	6.8	-	-	-	-	6.8	-	-	-	-	0.5	-	12.3	21.4	2.3	12.4	-	-	-
9	DKC 9120	16.8	-	-	26.2	9.4	9.6	13.3	42.2	49.6	44.6	31.7	7	4.9	11.7	61.9	28.8	42.6	20.5	5.8	-	-	16.8
10	Venus	7.3	-	7.1	18.5	4.9	23.4	10.2	9.8	15	35.7	19.4	-	-	12.1	19.5	29.8	39.4	2	11.6	-	-	7
11	TH 2	19.9	4.9	11.5	30.1	16.5	22.2	28.9	32.1	-	35.7	23.2	-	-	16.2	7	38.9	56.8	9.3	-	-	-	11.9
12	PMH 189	24.8	-	3.4	-	2.5	-	16.8	-	1.9	6.2	2.4	2.5	-	-	1.6	4.6	-	-	1.7	-	-	-
13	PMH 2277	10.4	0.3	-	-	-	-	15.2	-	-	9.9	3.1	-	-	-	29.9	24	-	0.1	7.4	-	-	-
14	IL 8212	7.9	-	16.5	17.9	10.3	1.7	19	37.7	10.8	53.6	24.8	41.2	-	19.4	-	20.2	61.5	10.9	-	-	-	11.9
15	IL 8534	26.7	-	14.3	-	6.1	16.5	23.7	41	2.6	41.5	25.8	22.6	-	47.9	31.4	25.2	75.3	24.9	19.7	38.2	25.2	19.2
16	Megan-G	19.7	-	-	7	0.1	14.8	-	17.2	8.7	40.5	16.8	-	-	31.9	23.1	11.3	44.8	3.9	1.6	-	-	4.9
	CHECKS																						
17	Seedtech 2324	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Bio 9681	11.4	-	-	12.3	0.4	8.1	2.8	-	-	24.2	2.6	-	2.1	-	9.3	20.7	-	-	12.8	-	-	-
19	Buland	16.4	-	1.3	22.5	9.3	6.1	-	-	3.7	-	-	-	7.5	-	29	-	-	0	6.2	-	-	1.7

TABLE No. 6 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Bio 9681																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
		KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	KARI	KOLH	MAND	VAGA	MEAN	BANS	GODH	MEAN	MEAN
1	X35C537	7.7	-	39.6	-	10.7	7.9	5.8	53.4	96	22.5	32.4	19.3	-	76.4	30.9	0.8	-	15	-	86.2	9.2	17.9
2	GK 3150	2.9	8.5	28.6	-	9.7	12.2	-	26.5	48.8	23.8	21	1.6	-	70.6	30.7	-	93.8	19.5	-	87.4	3	15.3
3	Ivori	-	10.2	-	11.9	4.1	0.1	-	45.8	38.1	15.2	17.9	-	-	56.2	2.8	7.2	94.6	13.3	-	75.5	1.1	10.6
4	KMH 2589	1.3	-	24.3	-	4.3	4.8	1.8	16.4	90.3	-	15.6	20	-	51.5	20.5	5	83.6	21.3	-	54.2	4.4	12.8
5	TH 22	7.3	8.2	-	-	-	19.8	2.3	13.1	4.4	-	5.8	32.7	1	22.6	4.3	-	11.7	9.5	-	140.5	13.4	4.9
6	P3533	-	14.5	24.5	1.5	8.2	4.3	-	51.8	75.4	20.9	25.7	48.2	7	45.7	28	-	63.2	24.8	-	57.6	3.2	17.8
7	BiscoX6573	13.1	5.3	13.9	-	6.6	7.6	-	19.2	76.1	2	16.3	18.2	-	59.1	35.1	-	69.2	19.5	-	128.3	9.6	13.6
8	JH 270	-	8.3	-	-	-	-	-	3.6	38.5	-	-	8.5	-	36.1	-	-	41.9	6.7	-	4.7	0.3	-
9	DKC 9120	4.8	10	6.6	12.4	9	1.4	10.2	47.5	94	16.4	28.4	21.1	2.8	51.2	48.2	6.8	66.7	25.7	-	14.8	-	18.5
10	Venus	-	-	14.4	5.6	4.5	14.2	7.2	13.9	49.1	9.2	16.4	-	-	51.8	9.3	7.5	63	6.4	-	60.5	6.4	8.6
11	TH 2	7.6	18.4	19.1	15.9	16.1	13	25.4	37.1	21.3	9.2	20.2	-	-	57.4	-	15.1	83.3	14	-	60.9	-	13.5
12	PMH 189	12	12.2	10.5	-	2.1	-	13.6	-	32.1	-	-	16	-	22.9	-	-	-	0.6	-	58.5	-	0.7
13	PMH 2277	-	13.2	-	-	-	-	12	2.7	25.9	-	0.5	10.8	-	8.5	18.8	2.7	7.4	4.4	-	45.9	1.4	0.3
14	IL 8212	-	7.4	24.4	5.1	9.9	-	15.8	42.8	43.7	23.6	21.7	59.8	-	61.7	-	-	88.9	15.7	-	123.6	-	13.5
15	IL 8534	13.7	9.2	22.1	-	5.7	7.7	20.3	46.3	33.1	13.9	22.7	38.7	-	100.3	20.3	3.7	105	30.3	6.1	272.8	38.6	21
16	Megan-G	7.4	-	3.9	-	-	6.2	-	21.5	41	13.1	13.9	-	-	78.6	12.6	-	69.3	8.4	-	76.2	0.6	6.4
	CHECKS																						
17	Seedtech 2324	-	12.8	6.8	-	-	-	-	3.7	29.7	-	-	13.2	-	35.4	-	-	16.9	4.3	-	169.8	10.7	1.5
18	Bio 9681	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Buland	4.5	12.2	8.2	9.2	8.9	-	-	1.8	34.5	-	-	-	5.3	31.6	18	-	10.3	4.4	-	40.6	-	3.2

TABLE No. 6 (Cont..)

		GRAIN YIELD % SUPERIORITY OVER THE Buland																					
Sl						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
No	PEDIGREE	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	KARI	KOLH	MAND	VAGA	MEAN	BANS	GODH	MEAN	MEAN
1	X35C537	3.1	-	29.1	-	1.7	10	27.1	50.8	45.7	55.4	37.2	34.5	-	34.1	10.9	29.1	-	10.2	4.6	32.4	9.4	14.2
2	GK 3150	-	-	18.8	-	0.8	14.3	20	24.3	10.6	57.2	25.4	14.6	-	29.6	10.7	16.5	75.7	14.5	-	33.3	3.2	11.7
3	Ivori	-	-	-	2.5	-	2	16.2	43.3	2.6	46.2	22.2	6.7	-	18.7	-	37.2	76.5	8.6	-	24.9	1.3	7.1
4	KMH 2589	-	-	14.9	-	-	6.8	22.2	14.4	41.4	20.7	19.8	35.3	-	15.2	2.1	34.4	66.5	16.3	3.5	9.7	4.6	9.3
5	TH 22	2.7	-	-	-	-	22.1	22.8	11.2	-	12.9	9.7	49.6	-	-	-	20	1.3	4.9	1.8	71.1	13.7	1.7
6	P3533	-	2	15.1	-	-	6.3	9.6	49.2	30.4	53.5	30.3	67.1	1.6	10.8	8.4	19.5	48	19.5	1.6	12.1	3.4	14.1
7	BiscoX6573	8.2	-	5.3	-	-	9.7	19.1	17.1	30.9	29.5	20.6	33.3	-	20.9	14.4	24.1	53.4	14.5	-	62.4	9.8	10.1
8	JH 270	-	-	-	-	-	-	10.7	1.8	3	1.1	-	22.3	-	3.5	-	19.1	28.6	2.3	5.9	-	0.5	-
9	DKC 9120	0.3	-	-	3	0.2	3.4	32.3	44.9	44.2	47.8	33.1	36.6	-	15	25.5	36.6	51.2	20.4	-	-	-	14.8
10	Venus	-	-	5.7	-	-	16.4	28.7	12	10.8	38.7	20.7	-	-	15.3	-	37.6	47.8	2	5.1	14.2	6.6	5.2
11	TH 2	3	5.5	10.1	6.2	6.7	15.2	50.6	34.7	-	38.7	24.6	-	-	19.6	-	47.3	66.2	9.2	-	14.5	-	10
12	PMH 189	7.2	-	2.1	-	-	-	36.4	-	-	8.5	3.4	30.8	-	-	-	10.9	-	-	-	12.8	-	-
13	PMH 2277	-	0.8	-	-	-	-	34.5	0.9	-	12.2	4.2	25	-	-	0.7	31.5	-	0.1	1.1	3.8	1.6	-
14	IL 8212	-	-	15	-	0.9	-	39	40.4	6.8	56.9	26.1	80.2	-	22.9	-	27.5	71.2	10.8	-	59.1	-	10
15	IL 8534	8.9	-	12.8	-	-	9.8	44.4	43.8	-	44.6	27.2	56.4	-	52.2	1.9	32.7	85.9	24.9	12.7	165.2	38.9	17.2
16	Megan-G	2.8	-	-	-	-	8.3	13.4	19.4	4.8	43.6	18	-	-	35.8	-	18	53.5	3.9	-	25.3	0.8	3.1
	CHECKS																						
17	Seedtech 2324	-	0.5	-	-	-	-	16.8	1.9	-	2.2	1.1	27.6	-	2.9	-	6.1	6	-	-	91.9	11	-
18	Bio 9681	-	-	-	-	-	1.9	20.1	-	-	26.9	3.7	12.8	-	-	-	28	-	-	6.2	-	0.2	-
19	Buland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table No. 6 (Continued)

		MOISTURE % AT HARVEST																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	X35C537	15.5	27.4	27.1	21.3	22.8	24.8	19.0	16.3	19.3	22.6	20.4	12.0	26.0	12.4	11.0	16.0	16.5	15.6	18.0	15.5	16.7	18.8
2	GK 3150	14.5	28.3	25.6	23.5	23.0	26.0	19.6	15.1	21.5	22.7	21.0	17.8	21.4	14.5	10.7	15.6	15.1	15.8	18.2	14.1	16.1	19.0
3	Ivori	17.0	25.1	28.5	20.5	22.8	26.6	19.4	23.1	21.6	24.9	23.1	16.3	23.4	14.3	11.9	16.8	18.0	16.8	18.3	15.7	17.0	20.1
4	KMH 2589	16.5	26.4	28.4	23.9	23.8	24.0	19.0	16.7	21.5	25.7	21.3	18.2	26.7	13.5	12.3	16.2	17.6	17.4	19.5	15.3	17.4	20.1
5	TH 22	14.0	28.7	29.3	23.8	23.9	25.6	20.0	15.2	19.8	24.1	20.9	13.1	25.3	13.3	11.3	15.9	16.7	15.9	17.7	14.7	16.2	19.3
6	P3533	17.0	23.4	28.0	21.7	22.5	23.1	19.3	17.0	22.1	26.3	21.5	22.4	25.9	12.2	12.4	16.1	18.6	17.9	18.7	14.5	16.6	19.9
7	BiscoX6573	15.5	24.7	29.6	22.8	23.1	24.1	19.1	18.4	20.7	27.7	22.0	18.7	24.8	14.7	10.4	15.5	15.9	16.6	18.3	14.4	16.3	19.7
8	JH 270	17.0	26.2	29.8	21.1	23.5	23.0	19.5	16.7	19.5	24.9	20.7	20.0	27.0	11.6	12.5	15.6	15.5	17.0	18.3	14.1	16.2	19.5
9	DKC 9120	14.5	27.3	30.5	23.1	23.8	26.0	19.0	18.7	20.2	27.2	22.2	20.2	27.9	14.3	11.1	16.5	16.9	17.8	18.5	16.3	17.4	20.5
10	Venus	16.5	27.6	27.1	20.3	22.9	24.9	18.4	14.3	20.4	23.0	20.2	12.8	29.2	12.9	12.4	14.8	16.6	16.4	18.4	13.5	15.9	19.0
11	TH 2	13.5	24.6	29.5	23.9	22.9	27.8	19.3	20.1	22.1	25.8	23.0	15.6	25.6	13.9	11.5	15.8	17.1	16.6	17.6	15.6	16.6	19.9
12	PMH 189	15.5	25.5	28.5	17.8	21.8	23.6	18.5	14.8	19.2	25.1	20.2	19.9	25.8	10.6	10.9	15.6	18.2	16.8	18.2	13.9	16.1	18.9
13	PMH 2277	15.0	25.8	29.1	19.8	22.4	23.3	19.0	16.5	18.3	24.8	20.4	17.8	24.9	13.2	11.1	16.0	16.4	16.5	18.4	13.5	16.0	19.0
14	IL 8212	17.5	26.1	26.1	20.9	22.6	25.8	18.9	18.2	21.4	29.7	22.8	19.9	21.0	13.3	12.2	15.7	16.6	16.4	18.1	15.4	16.8	19.8
15	IL 8534	15.5	27.0	28.7	24.1	23.8	24.4	19.3	17.3	19.3	27.6	21.6	20.4	24.1	12.9	12.4	15.8	18.0	17.2	19.0	14.3	16.6	20.0
16	Megan-G	17.0	23.2	26.8	22.8	22.4	25.9	19.4	15.6	16.5	22.3	19.9	12.2	28.6	13.4	11.7	14.7	17.5	16.4	18.9	16.1	17.5	19.0
	CHECKS																						
17	Seedtech 2324	15.0	26.1	29.3	21.1	22.8	24.5	18.3	17.6	19.0	27.8	21.4	17.8	24.6	12.0	11.0	16.2	17.9	16.6	18.0	13.4	15.7	19.4
18	Bio 9681	16.5	28.7	30.7	22.8	24.7	24.0	19.3	16.8	18.8	24.6	20.7	14.5	23.9	13.2	10.7	16.6	17.6	16.1	18.4	14.0	16.2	19.5
19	Buland	17.0	24.8	25.2	22.1	22.3	23.2	19.1	14.8	21.8	23.6	20.5	17.1	23.2	10.7	11.8	14.6	15.6	15.5	18.9	15.7	17.3	18.8
	Loc. Mean	**15.8**	**26.2**	**28.3**	**21.9**	**23.0**	**24.7**	**19.1**	**17.0**	**20.1**	**25.3**	**21.2**	**17.2**	**25.2**	**13.0**	**11.5**	**15.8**	**16.9**	**16.6**	**18.4**	**14.7**	**16.5**	**19.5**
	C.D. (5%)	0.65	0.27	1.87	1.48	2.23	1.00	0.52	1.74	5.07	1.99	1.79	2.87	0.63	1.90	1.16	0.47	1.47	1.97	0.69	0.37	1.43	1.02
	C.V. (%)	2.47	0.63	3.99	4.09	6.83	2.45	1.66	6.19	12.00	4.77	6.68	10.10	1.51	8.81	6.09	1.78	5.23	10.34	2.26	1.52	4.10	7.75
	F (Prob)	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.27	0.01

Table No. 6 (Continued)

		GRAIN SHELLING %																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	X35C537	76.5	84.3	87.5	83.3	82.9	76.4	79.7	85.0	85.3	78.5	81.0	84.3	80.5	79.6	83.6	81.8	75.3	80.9	78.4	74.2	76.3	80.8
2	GK 3150	74.5	82.6	89.9	87.8	83.7	77.6	80.2	82.5	85.5	79.0	81.0	81.9	78.4	79.6	90.3	80.9	78.6	81.6	78.1	76.3	77.2	81.4
3	Ivori	75.5	81.8	71.9	85.4	78.6	73.2	78.9	87.0	85.7	73.5	79.7	79.9	78.1	76.8	69.0	81.8	77.6	77.2	78.8	77.8	78.3	78.4
4	KMH 2589	77.5	83.9	89.1	85.5	84.0	75.0	80.1	80.0	85.4	76.5	79.4	82.6	78.0	76.7	83.7	81.3	78.2	80.1	77.5	81.3	79.4	80.7
5	TH 22	76.0	83.8	86.6	86.3	83.2	80.0	79.6	82.5	85.9	74.0	80.4	84.1	78.6	76.5	87.1	80.6	77.2	80.7	78.3	83.5	80.9	81.2
6	P3533	74.5	83.1	92.2	85.0	83.7	74.1	80.0	86.0	86.7	74.5	80.2	82.1	79.6	75.5	85.7	81.7	78.4	80.5	78.5	78.3	78.4	80.9
7	BiscoX6573	76.5	82.7	98.3	81.8	84.8	76.6	82.1	76.5	86.1	76.0	79.5	84.7	79.6	78.9	82.2	81.5	79.7	81.1	78.0	85.7	81.8	81.6
8	JH 270	74.5	83.9	84.2	83.4	81.5	71.5	80.4	78.0	81.6	73.5	77.0	78.9	78.5	74.4	75.1	80.1	75.8	77.1	80.3	78.9	79.6	78.4
9	DKC 9120	74.5	82.9	84.4	83.0	81.2	75.4	80.3	84.0	84.3	76.0	80.0	81.2	77.8	76.5	85.1	82.0	77.8	80.0	79.1	73.7	76.4	79.9
10	Venus	76.5	81.5	88.4	86.0	83.1	80.0	80.2	78.0	85.7	79.0	80.6	81.7	79.6	79.2	89.5	80.5	77.8	81.4	78.9	80.7	79.8	81.4
11	TH 2	74.5	84.2	90.1	83.1	83.0	81.8	81.0	81.0	87.2	73.5	80.9	80.9	76.2	77.4	69.6	79.1	78.3	76.9	78.1	79.9	79.0	79.7
12	PMH 189	76.5	82.1	90.1	85.3	83.5	74.9	82.7	85.5	86.0	74.5	80.7	83.4	79.5	79.0	84.5	75.0	76.0	79.5	78.3	79.3	78.8	80.7
13	PMH 2277	75.0	83.9	87.9	82.4	82.3	77.0	82.7	81.5	86.3	74.5	80.4	81.5	78.0	77.4	86.0	80.0	77.1	80.0	80.3	78.4	79.4	80.6
14	IL 8212	77.0	82.9	89.3	85.1	83.6	76.1	82.2	82.5	83.5	79.0	80.6	82.2	80.8	76.4	84.9	81.7	78.8	80.8	75.3	79.7	77.5	81.0
15	IL 8534	75.5	83.0	91.0	82.6	83.0	79.9	83.6	80.5	82.4	78.0	80.9	82.0	79.1	78.2	82.3	82.3	78.2	80.3	81.0	69.1	75.0	80.5
16	Megan-G	77.5	83.3	84.2	84.0	82.2	78.3	81.8	82.0	84.4	81.5	81.6	79.6	81.3	81.4	81.6	81.7	78.4	80.6	78.6	67.5	73.0	80.4
	CHECKS																						
17	Seedtech 2324	75.0	83.8	89.4	82.1	82.6	75.4	80.2	83.0	85.4	74.5	79.7	81.8	78.9	78.0	73.1	81.9	74.9	78.1	78.6	78.7	78.6	79.7
18	Bio 9681	74.5	83.8	88.2	86.0	83.1	76.3	80.5	81.0	86.2	77.5	80.3	80.8	77.6	78.6	88.9	80.5	75.6	80.3	78.4	64.6	71.5	79.9
19	Buland	76.5	82.7	84.2	84.0	81.8	71.7	78.5	85.0	82.6	66.5	76.9	80.7	79.0	76.5	84.3	80.3	74.2	79.1	79.0	79.6	79.3	79.1
	Loc. Mean	**75.7**	**83.2**	**87.7**	**84.3**	**82.7**	**76.4**	**80.8**	**82.2**	**85.1**	**75.8**	**80.0**	**81.8**	**78.9**	**77.7**	**82.4**	**80.8**	**77.2**	**79.8**	**78.6**	**77.2**	**77.9**	**80.3**
	C.D. (5%)	0.74	0.29	-	1.68	3.97	1.75	1.18	5.55	2.34	0.61	3.04	1.77	0.99	2.13	2.14	3.31	1.22	3.18	1.97	8.75	8.61	1.90
	C.V. (%)	0.59	0.21	-	1.20	3.38	1.38	0.89	4.08	1.31	0.48	3.01	1.31	0.76	1.65	1.57	2.48	0.96	3.47	1.51	6.84	5.26	3.51
	F (Prob)	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.02	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.04	0.00	0.06	0.00	0.00	0.69	0.02

Table No. 6 (Continued)

		STAND AT HARVEST ('000/ha)																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	X35C537	75.2	62.4	85.9	66.9	72.6	65.7	65.7	72.0	72.3	80.3	71.2	61.8	57.1	67.7	51.5	68.8	50.2	59.5	63.2	76.4	69.8	67.2
2	GK 3150	75.2	61.1	85.2	67.0	72.1	67.1	64.6	71.6	74.1	76.2	70.7	64.6	57.1	60.9	48.3	64.5	57.4	58.8	68.8	79.5	74.1	67.3
3	Ivori	73.4	62.8	82.2	67.0	71.3	69.0	66.0	72.0	75.4	78.2	72.1	65.7	57.1	66.7	48.3	66.2	57.4	60.2	64.4	73.6	69.0	67.4
4	KMH 2589	75.0	60.7	80.6	67.0	70.8	67.6	63.9	71.8	71.4	78.5	70.6	75.0	57.1	68.8	52.0	62.6	55.3	61.8	65.3	70.1	67.7	67.2
5	TH 22	75.9	63.0	67.4	69.3	68.9	67.6	62.0	71.8	63.8	69.7	67.0	63.2	56.9	54.8	47.8	60.2	51.4	55.7	62.3	72.2	67.2	63.5
6	P3533	76.4	62.6	84.7	67.0	72.7	60.2	63.2	72.6	64.7	77.8	67.7	71.3	57.1	61.9	51.9	61.0	50.9	59.0	63.7	69.4	66.6	65.7
7	BiscoX6573	75.2	60.9	80.3	66.9	70.8	70.4	65.5	72.2	65.6	76.6	70.1	67.6	56.9	68.1	52.0	62.6	57.4	60.8	63.9	76.0	70.0	67.0
8	JH 270	75.0	61.5	79.2	67.0	70.7	60.0	62.5	71.4	60.7	78.5	66.6	68.8	57.1	63.9	51.5	54.5	46.8	57.1	66.2	67.0	66.6	64.2
9	DKC 9120	75.0	61.3	78.7	67.4	70.6	68.8	64.4	71.4	65.6	78.7	69.8	67.6	56.9	65.5	50.7	56.7	53.7	58.5	65.3	67.7	66.5	65.6
10	Venus	76.2	61.9	80.8	66.9	71.4	63.0	64.1	72.2	60.7	76.9	67.4	60.0	58.7	60.7	49.6	50.2	53.7	55.5	70.1	64.2	67.2	64.1
11	TH 2	74.3	61.3	78.5	66.9	70.2	69.0	65.3	71.8	70.5	69.2	69.2	69.0	56.9	65.3	51.3	59.8	55.6	59.6	60.6	68.8	64.7	65.5
12	PMH 189	75.7	61.9	69.7	66.7	68.5	67.1	62.7	71.8	65.6	72.7	68.0	59.5	56.9	51.0	49.8	61.7	51.9	55.1	65.7	69.4	67.6	63.5
13	PMH 2277	75.2	63.5	69.7	67.2	68.9	63.0	62.0	71.8	64.3	67.4	65.7	60.2	56.9	44.6	50.0	53.1	50.9	52.6	63.9	75.7	69.8	62.3
14	IL 8212	74.5	60.9	83.6	66.9	71.5	62.7	65.3	72.4	64.7	76.9	68.4	72.9	57.1	61.7	49.8	62.6	53.0	59.5	64.1	72.6	68.3	66.0
15	IL 8534	75.0	62.0	78.9	66.7	70.7	65.7	63.0	71.8	61.6	74.8	67.4	68.3	56.9	65.5	51.7	62.9	50.7	59.3	65.3	77.1	71.2	65.8
16	Megan-G	73.8	61.7	78.5	66.9	70.2	67.1	65.3	72.4	64.3	77.3	69.3	56.9	56.9	66.7	50.7	61.2	52.3	57.5	64.4	68.1	66.2	65.0
	CHECKS																						
17	Seedtech 2324	75.0	61.3	76.2	68.0	70.1	63.0	63.4	70.6	62.9	66.7	65.3	58.1	56.7	64.7	49.6	66.2	47.7	57.2	65.3	70.5	67.9	63.9
18	Bio 9681	74.5	61.5	56.9	67.8	65.2	62.7	63.2	71.0	36.2	67.4	60.1	59.5	57.1	36.1	48.5	61.4	39.8	50.4	65.0	66.3	65.7	58.5
19	Buland	75.9	62.8	82.2	66.9	71.9	71.3	64.4	72.6	64.7	78.7	70.3	60.9	57.1	59.3	53.1	66.0	45.6	57.0	66.2	61.8	64.0	65.3
	Loc. Mean	**75.1**	**61.8**	**77.8**	**67.2**	**70.5**	**65.8**	**64.0**	**71.9**	**64.7**	**74.9**	**68.3**	**64.8**	**57.1**	**60.7**	**50.4**	**61.2**	**51.7**	**57.6**	**64.9**	**70.9**	**67.9**	**65.0**
	C.D. (5%)	1.79	1.18	8.09	1.27	5.30	4.72	1.82	1.67	6.56	4.09	4.99	11.95	1.12	5.88	3.89	5.34	6.91	5.09	4.58	2.94	8.14	2.66
	C.V. (%)	1.44	1.15	6.27	1.15	5.31	4.33	1.72	1.40	4.83	3.30	5.80	11.14	1.18	5.85	4.66	5.27	8.08	7.70	4.26	2.51	5.71	6.07
	F (Prob)	0.15	0.00	0.00	0.05	0.62	0.00	0.00	0.72	0.00	0.00	0.00	0.10	0.40	0.00	0.29	0.00	0.00	0.00	0.08	0.00	0.72	0.00

Table No. 6 (Continued)

		DAYS TO 50% POLLEN SHED																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	X35C537	101.0	134.7	78.7	122.3	109.2	131.7	70.7	116.7	112.0	118.3	109.9	81.0	53.0	74.3	75.0	64.7	53.0	66.8	98.7	79.0	88.8	92.0
2	GK 3150	100.0	135.7	78.7	120.7	108.8	125.3	70.7	116.0	110.0	112.7	106.9	79.0	54.7	72.3	76.0	63.3	51.7	66.2	97.7	75.3	86.5	90.6
3	Ivori	96.7	136.0	80.0	122.7	108.8	129.3	71.0	121.0	116.5	117.0	111.0	79.7	53.7	75.0	77.0	65.7	54.3	67.6	98.7	78.7	88.7	92.5
4	KMH 2589	101.7	138.3	79.7	122.7	110.6	128.3	71.7	120.0	117.0	115.7	110.5	81.3	55.7	75.3	77.0	62.3	52.7	67.4	99.3	77.3	88.3	92.7
5	TH 22	99.7	138.3	80.3	125.7	111.0	129.3	72.0	118.0	117.5	118.3	111.0	82.0	55.0	75.0	75.0	67.0	53.0	67.8	97.7	78.7	88.2	93.1
6	P3533	102.3	136.7	78.0	122.3	109.8	128.7	71.7	120.7	116.5	118.3	111.2	83.3	56.0	76.0	76.0	67.0	52.7	68.5	99.7	79.0	89.3	93.2
7	BiscoX6573	101.0	138.7	79.0	125.0	110.9	130.3	71.0	120.7	119.5	119.3	112.2	81.3	55.3	74.3	77.0	64.3	50.3	67.1	99.0	78.7	88.8	93.2
8	JH 270	102.3	139.3	83.0	129.7	113.6	132.3	75.0	122.0	123.0	123.0	115.1	86.7	60.3	79.0	80.7	70.0	55.7	72.1	99.3	83.3	91.3	96.7
9	DKC 9120	101.0	136.7	81.3	121.3	110.1	130.7	72.3	119.0	116.0	116.7	110.9	82.0	56.3	75.7	77.0	62.3	52.3	67.6	99.0	80.0	89.5	92.9
10	Venus	100.3	135.0	81.0	123.3	109.9	128.3	71.3	120.0	113.0	113.7	109.3	81.3	55.3	76.0	75.0	63.3	51.7	67.1	98.7	77.3	88.0	92.0
11	TH 2	103.7	136.3	80.0	123.7	110.9	127.7	71.3	118.3	115.0	116.3	109.7	81.0	55.3	72.3	74.0	63.3	53.0	66.5	99.0	78.0	88.5	92.3
12	PMH 189	106.3	138.0	81.3	125.7	112.8	129.3	71.7	119.3	116.0	119.0	111.1	82.3	56.3	74.0	74.0	67.7	52.7	67.8	99.0	78.3	88.7	93.6
13	PMH 2277	101.3	137.3	82.7	125.0	111.6	128.3	70.0	119.7	119.0	119.7	111.3	82.0	56.0	74.0	80.7	68.3	51.7	68.8	100.3	78.7	89.5	93.8
14	IL 8212	103.3	139.0	82.0	125.3	112.4	131.7	72.0	122.0	115.5	120.3	112.3	81.0	56.0	78.7	76.0	67.0	53.0	68.6	99.7	79.7	89.7	94.2
15	IL 8534	106.0	139.0	81.3	125.7	113.0	132.3	72.0	121.7	118.0	120.0	112.8	82.3	56.3	78.3	77.0	65.7	52.7	68.7	100.3	79.0	89.7	94.6
16	Megan-G	104.0	137.3	78.7	121.7	110.4	126.3	71.3	118.0	115.0	113.3	108.8	82.0	55.0	74.3	75.0	62.7	51.0	66.7	99.7	78.7	89.2	92.0
	CHECKS																						
17	Seedtech 2324	106.0	137.7	81.3	125.7	112.7	125.7	70.0	118.7	116.0	118.0	109.7	75.0	54.0	75.0	75.0	63.0	52.3	65.7	101.0	77.3	89.2	92.5
18	Bio 9681	108.0	139.0	82.0	123.7	113.2	127.7	72.0	120.0	117.5	119.3	111.3	81.3	58.3	75.7	79.0	64.7	54.7	68.9	100.3	79.3	89.8	94.3
19	Buland	104.0	141.3	82.3	127.3	113.8	132.3	72.0	119.7	121.0	121.0	113.2	82.7	58.7	76.7	79.3	69.7	54.3	70.2	100.3	82.3	91.3	95.6
	Loc. Mean	**102.6**	**137.6**	**80.6**	**124.2**	**111.2**	**129.2**	**71.6**	**119.5**	**116.5**	**117.9**	**111.0**	**81.4**	**55.9**	**75.4**	**76.6**	**65.4**	**52.8**	**67.9**	**99.3**	**78.9**	**89.1**	**93.3**
	C.D. (5%)	2.86	0.96	2.51	2.21	2.21	1.80	1.40	2.74	1.70	1.54	1.92	4.45	0.85	1.44	0.38	1.77	0.98	1.60	1.26	0.84	2.51	1.01
	C.V. (%)	1.68	0.42	1.88	1.07	1.40	0.84	1.18	1.38	0.70	0.79	1.37	3.30	0.92	1.15	0.30	1.64	1.12	2.05	0.77	0.64	1.34	1.60
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00

Table No. 6 (Continued)

		DAYS TO 50% SILKING																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	X35C537	106.0	136.7	79.7	125.3	111.9	133.7	72.0	119.0	117.0	120.7	112.5	80.7	55.0	75.0	76.0	68.3	56.7	68.6	101.7	81.0	91.3	94.4
2	GK 3150	104.7	137.7	80.3	123.7	111.6	128.3	72.7	118.0	114.5	116.3	110.0	79.3	56.7	73.3	77.0	69.3	54.7	68.4	100.7	77.3	89.0	93.2
3	Ivori	101.0	138.0	82.0	125.7	111.7	131.3	72.3	123.0	121.0	121.0	113.7	83.3	55.7	78.0	78.0	70.0	57.3	70.4	101.7	80.0	90.8	95.3
4	KMH 2589	106.0	140.3	81.7	126.0	113.5	130.3	74.3	122.0	121.5	121.0	113.8	84.0	58.0	77.7	78.0	68.3	56.3	70.4	102.3	78.3	90.3	95.7
5	TH 22	104.7	139.3	81.0	126.3	112.8	131.3	73.0	120.3	122.0	121.0	113.5	82.7	57.0	77.3	76.0	69.0	55.7	69.6	100.7	79.7	90.2	95.1
6	P3533	107.3	137.7	79.0	125.3	112.3	130.7	73.0	122.7	121.0	121.3	113.7	84.7	58.0	78.7	77.0	69.0	56.0	70.6	102.7	80.7	91.7	95.6
7	BiscoX6573	105.3	140.7	81.0	127.3	113.6	132.3	73.0	122.7	124.5	122.3	115.0	84.3	57.3	77.0	78.0	69.7	54.0	70.1	102.0	80.3	91.2	96.0
8	JH 270	106.3	141.3	84.7	133.0	116.3	134.3	77.0	124.0	128.0	127.7	118.2	90.0	63.3	81.7	81.7	74.0	59.7	75.1	102.3	84.3	93.3	99.6
9	DKC 9120	104.3	138.7	83.3	125.0	112.8	132.7	74.7	121.3	120.0	120.7	113.9	86.7	58.3	78.7	78.0	68.7	56.3	71.1	102.0	81.0	91.5	95.9
10	Venus	104.3	137.0	81.3	125.7	112.1	130.3	73.0	122.0	116.5	119.0	112.2	83.3	58.0	78.7	76.0	67.0	55.0	69.7	101.7	78.3	90.0	94.5
11	TH 2	107.3	138.3	81.7	125.7	113.3	129.7	74.0	120.7	119.0	120.7	112.8	84.7	58.0	74.3	75.0	66.7	56.7	69.2	102.0	79.7	90.8	94.9
12	PMH 189	110.0	139.0	82.0	127.7	114.7	131.3	73.0	121.3	120.0	122.3	113.6	83.3	58.7	75.0	75.0	69.7	56.3	69.7	102.0	79.3	90.7	95.6
13	PMH 2277	106.0	139.3	82.0	127.7	113.8	130.3	72.0	121.7	123.5	122.7	114.0	83.7	58.0	75.3	81.7	72.7	55.0	71.1	103.3	80.0	91.7	96.2
14	IL 8212	107.3	140.0	81.3	128.0	114.2	133.7	73.7	124.0	121.5	122.3	115.0	82.7	58.0	79.3	77.0	69.7	56.3	70.5	102.7	80.7	91.7	96.4
15	IL 8534	111.3	141.0	83.0	127.7	115.8	134.3	74.3	123.7	122.5	122.3	115.4	84.7	58.3	78.7	78.0	69.7	56.7	71.0	103.3	81.0	92.2	97.1
16	Megan-G	109.0	139.3	80.3	124.7	113.3	128.3	73.7	120.0	119.0	118.7	111.9	84.7	57.0	75.0	76.0	67.0	54.7	69.1	103.0	79.7	91.3	94.7
	CHECKS																						
17	Seedtech 2324	110.3	139.7	80.7	128.0	114.7	127.7	71.3	120.7	122.5	121.3	112.7	83.0	56.0	76.7	76.0	66.3	55.7	68.9	104.3	79.0	91.7	95.2
18	Bio 9681	113.0	141.0	82.7	126.0	115.7	129.7	74.0	122.3	122.0	121.7	113.9	82.3	60.7	78.7	80.0	69.0	58.0	71.4	103.3	80.3	91.8	96.7
19	Buland	108.0	141.3	84.0	130.3	115.9	134.3	73.7	122.0	126.0	124.3	116.1	85.7	60.7	79.0	80.3	73.7	58.7	73.0	103.3	83.3	93.3	98.2
	Loc. Mean	**107.0**	**139.3**	**81.7**	**126.8**	**113.7**	**131.3**	**73.4**	**121.6**	**121.2**	**121.4**	**113.8**	**83.9**	**58.0**	**77.3**	**77.6**	**69.4**	**56.3**	**70.4**	**102.4**	**80.2**	**91.3**	**95.8**
	C.D. (5%)	2.68	0.96	2.79	2.22	2.33	1.80	1.68	2.91	2.40	1.33	1.89	2.16	0.95	1.50	0.38	2.54	1.19	1.52	1.28	0.80	2.41	0.99
	C.V. (%)	1.51	0.42	2.06	1.06	1.45	0.83	1.38	1.44	0.94	0.66	1.32	1.56	0.98	1.18	0.29	2.21	1.27	1.88	0.76	0.60	1.26	1.53
	F (Prob)	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00

Table No. 6 (Continued)

		DAYS TO 75% DRY HUSK																				
					ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	X35C537	150.0	166.7	117.0	144.6	162.0	117.0	158.0	156.0	158.7	150.3	126.3	96.0	115.0	119.0	109.0	98.3	110.6	138.3	109.7	124.0	131.1
2	GK 3150	142.0	167.7	115.7	141.8	159.7	116.0	157.3	152.0	157.7	148.5	120.3	98.0	113.3	120.0	114.0	97.0	110.4	138.0	110.0	124.0	129.9
3	Ivori	147.3	168.0	118.7	144.7	163.7	115.3	157.3	156.0	158.0	150.1	123.0	97.7	118.0	121.0	111.0	100.3	111.8	139.3	112.7	126.0	131.7
4	KMH 2589	143.3	170.3	116.0	143.2	160.3	116.3	158.7	156.5	159.0	150.2	127.0	99.7	117.7	121.0	110.0	97.3	112.1	138.7	111.0	124.8	131.4
5	TH 22	147.3	169.3	116.3	144.3	162.3	117.0	159.0	157.5	157.3	150.6	129.0	98.7	117.3	119.0	108.3	97.0	111.6	137.3	112.0	124.7	131.6
6	P3533	146.7	167.7	113.3	142.6	162.3	118.0	159.7	156.5	157.3	150.8	131.0	102.0	118.7	120.0	108.7	98.7	113.2	140.7	113.0	126.8	132.1
7	BiscoX6573	141.7	170.7	117.0	143.1	166.3	117.7	158.7	158.5	160.0	152.2	129.0	98.7	117.0	121.0	114.7	97.0	112.9	140.7	113.0	126.8	132.6
8	JH 270	142.7	171.3	117.0	143.7	165.3	117.0	157.7	163.0	157.3	152.1	131.0	104.0	121.7	125.0	110.3	102.3	115.7	141.7	116.3	129.0	134.0
9	DKC 9120	147.3	168.7	117.7	144.6	161.7	120.0	160.0	155.5	160.0	151.4	130.3	100.7	118.7	121.0	113.0	98.3	113.7	139.3	113.0	126.2	132.8
10	Venus	148.3	167.0	116.0	143.8	163.3	118.7	158.3	153.0	158.0	150.3	120.3	100.0	118.7	119.0	109.0	97.3	110.7	137.7	112.0	124.8	131.0
11	TH 2	148.3	168.3	117.3	144.7	159.3	117.0	161.0	154.0	158.3	149.9	121.0	100.7	114.3	118.0	111.0	98.3	110.6	138.3	112.0	125.2	131.1
12	PMH 189	149.0	169.0	117.3	145.1	162.3	117.7	160.7	160.5	158.7	152.0	127.7	100.7	115.0	120.7	110.0	98.0	112.0	138.0	112.7	125.3	132.4
13	PMH 2277	146.3	169.3	115.7	143.8	162.3	117.0	159.3	159.0	159.0	151.3	127.7	99.7	115.3	124.3	109.7	97.3	112.3	141.3	109.7	125.5	132.1
14	IL 8212	148.0	170.0	117.0	145.0	165.7	119.0	162.0	155.5	160.7	152.6	130.0	100.0	119.3	120.0	114.0	98.3	113.6	140.0	114.0	127.0	133.3
15	IL 8534	147.0	171.0	117.3	145.1	166.3	119.0	160.3	157.5	160.7	152.8	130.3	100.0	118.7	121.0	114.0	98.7	113.8	140.7	113.7	127.2	133.5
16	Megan-G	149.3	169.3	117.0	145.2	164.3	118.0	160.7	154.5	157.3	151.0	124.3	99.3	115.0	119.0	109.0	97.0	110.6	141.0	112.7	126.8	131.7
	CHECKS																					
17	Seedtech 2324	145.7	169.7	116.0	143.8	157.7	118.0	159.0	158.5	159.0	150.4	126.3	98.0	116.7	119.0	110.0	97.7	111.3	142.0	110.3	126.2	131.5
18	Bio 9681	146.7	171.0	119.3	145.7	160.7	119.0	158.7	157.5	159.0	151.0	121.7	101.7	118.7	123.0	109.0	100.7	112.4	141.0	112.7	126.8	132.5
19	Buland	147.3	171.3	115.0	144.6	164.3	117.3	155.7	161.5	158.0	151.4	126.3	102.3	119.0	124.0	109.7	101.3	113.8	139.7	107.7	123.7	132.5
	Loc. Mean	**146.5**	**169.3**	**116.7**	**144.2**	**162.6**	**117.6**	**159.1**	**157.0**	**158.6**	**151.0**	**126.5**	**99.9**	**117.3**	**120.8**	**110.8**	**98.5**	**112.3**	**139.7**	**112.0**	**125.8**	**132.0**
	C.D. (5%)	2.88	0.96	1.61	3.07	2.20	1.98	5.48	2.54	1.68	2.28	4.60	0.99	1.50	1.80	1.35	1.64	2.29	2.13	2.58	3.15	1.28
	C.V. (%)	1.19	0.34	0.83	1.29	0.82	1.02	2.08	0.77	0.64	1.20	2.20	0.60	0.77	0.90	0.74	1.01	1.78	0.92	1.39	1.19	1.40
	F (Prob)	0.00	0.00	0.00	0.62	0.00	0.00	0.84	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00

Table No. 6 (Continued)

		PLANT HEIGHT(cm)																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	X35C537	205.0	188.3	208.3	249.3	212.8	222.3	241.3	213.0	232.4	195.3	220.9	220.0	201.3	187.3	206.7	203.7	189.3	201.4	213.8	226.7	220.2	212.0
2	GK 3150	200.3	161.7	191.7	230.0	195.9	181.8	207.7	149.7	176.5	170.7	177.3	172.0	191.0	154.7	143.3	162.3	173.5	166.1	247.5	187.7	217.6	182.5
3	Ivori	206.7	165.0	191.7	249.3	203.2	189.9	208.0	167.7	203.1	172.7	188.3	177.0	202.5	169.7	161.7	166.7	179.0	176.1	273.6	205.0	239.3	193.5
4	KMH 2589	190.3	176.7	190.0	261.0	204.5	191.9	221.7	179.3	202.0	184.3	195.9	166.0	225.1	160.3	168.3	194.7	184.7	183.2	258.9	206.3	232.6	197.7
5	TH 22	202.3	180.0	195.0	242.7	205.0	193.9	217.0	187.7	208.9	204.3	202.4	195.0	207.6	180.0	161.7	196.0	183.0	187.2	240.8	212.7	226.7	200.5
6	P3533	206.7	186.7	221.7	277.3	223.1	214.8	229.3	205.7	198.6	202.0	210.1	202.5	236.1	174.7	191.7	203.3	194.3	200.4	261.8	209.3	235.6	212.7
7	BiscoX6573	208.7	180.0	216.7	258.7	216.0	215.5	240.3	190.7	223.8	195.3	213.1	176.0	219.5	182.0	193.3	190.0	205.5	194.4	262.4	205.0	233.7	209.6
8	JH 270	198.0	205.0	203.3	245.0	212.8	220.3	256.0	204.7	223.4	202.7	221.4	180.0	240.8	198.7	185.0	205.0	190.3	200.0	252.0	206.0	229.0	212.7
9	DKC 9120	208.7	223.3	203.3	247.3	220.7	198.3	231.3	191.3	208.0	193.3	204.5	162.5	218.6	167.0	190.0	200.3	191.3	188.3	247.1	184.7	215.9	203.9
10	Venus	198.7	191.7	195.0	260.3	211.4	214.3	227.0	184.3	212.0	194.3	206.4	178.0	220.6	164.3	206.7	190.0	203.9	193.9	230.5	204.7	217.6	204.5
11	TH 2	206.0	188.3	176.7	261.3	208.1	180.3	218.3	178.3	172.5	169.3	183.8	168.5	206.4	167.0	170.0	187.7	174.0	178.9	253.9	202.7	228.3	193.0
12	PMH 189	210.7	171.7	196.7	259.0	209.5	186.6	223.3	195.3	211.7	199.3	203.3	185.5	230.8	172.7	170.0	187.3	179.7	187.7	255.4	212.3	233.9	202.8
13	PMH 2277	201.7	173.3	181.7	253.7	202.6	191.7	226.7	187.3	208.7	196.0	202.1	190.0	205.1	180.7	190.0	180.3	171.5	186.3	238.8	175.0	206.9	197.2
14	IL 8212	194.7	213.3	203.3	252.3	215.9	199.2	249.3	210.3	229.3	199.3	217.5	204.0	199.0	191.3	195.0	175.3	187.5	192.0	233.9	212.7	223.3	208.8
15	IL 8534	197.7	186.7	206.7	263.0	213.5	219.0	237.0	213.0	208.7	203.7	216.3	187.5	216.3	193.0	191.7	183.3	201.1	195.5	252.4	209.0	230.7	210.0
16	Megan-G	186.7	193.3	215.0	255.3	212.6	204.0	236.7	188.3	215.5	189.3	206.8	179.5	215.5	184.0	201.7	195.7	205.6	197.0	235.8	206.3	221.1	206.4
	CHECKS																						
17	Seedtech 2324	197.7	163.3	191.7	250.7	200.8	189.5	210.7	185.3	171.1	174.3	186.2	157.5	206.2	160.3	168.3	164.0	167.4	170.6	230.7	184.3	207.5	186.7
18	Bio 9681	205.0	168.3	201.7	262.3	209.3	193.7	239.0	198.3	231.3	190.3	210.5	193.0	213.7	176.3	185.0	186.0	201.2	192.5	240.4	183.3	211.9	204.1
19	Buland	199.7	166.7	221.7	240.7	207.2	201.9	246.3	194.7	224.3	193.7	212.2	198.0	220.2	193.7	175.0	190.7	215.1	198.8	262.5	176.0	219.3	207.1
	Loc. Mean	**201.3**	**183.3**	**200.6**	**253.6**	**209.7**	**200.5**	**229.8**	**190.8**	**208.5**	**191.1**	**204.1**	**183.8**	**214.5**	**176.7**	**181.8**	**187.5**	**189.4**	**189.0**	**247.0**	**200.5**	**223.7**	**202.4**
	C.D. (5%)	3.12	6.37	26.62	14.07	16.56	20.05	18.98	20.30	21.41	8.53	10.72	14.71	11.03	10.52	29.03	16.50	11.05	12.63	37.24	5.79	32.07	7.63
	C.V. (%)	0.94	2.10	8.01	3.35	5.57	6.04	4.99	6.42	4.89	2.70	4.17	4.83	3.11	3.60	9.64	5.31	3.53	5.83	9.11	1.74	6.82	5.59
	F (Prob)	0.00	0.00	0.06	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.70	0.00

Table No. 6 (Continued)

		EAR HEIGHT(cm)																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	X35C537	98.7	88.3	100.0	93.7	95.2	106.0	108.7	100.7	108.2	101.0	104.9	84.5	102.5	80.0	78.3	73.7	99.8	86.5	122.0	103.7	112.8	97.0
2	GK 3150	90.3	76.7	93.3	90.7	87.8	78.9	112.0	76.0	81.2	82.7	86.2	88.0	101.1	80.3	75.0	69.3	99.3	85.5	127.2	85.7	106.5	88.7
3	Ivori	100.0	70.0	91.7	92.7	88.6	70.6	101.7	65.7	86.6	77.0	80.3	74.0	106.8	71.0	70.0	74.7	88.8	80.9	147.0	86.7	116.8	86.8
4	KMH 2589	98.3	83.3	101.7	110.7	98.5	81.0	110.7	83.3	89.9	83.7	89.7	71.0	120.5	72.0	73.3	80.7	78.8	82.7	133.7	95.0	114.3	92.2
5	TH 22	103.0	91.7	95.0	89.7	94.8	80.7	119.3	96.3	95.4	105.3	99.4	90.0	109.4	94.7	83.3	89.0	97.5	94.0	130.5	91.7	111.1	97.8
6	P3533	98.7	101.7	108.3	111.3	105.0	80.7	119.7	101.7	96.5	98.0	99.3	93.0	126.2	86.3	86.7	82.3	98.5	95.5	150.4	89.0	119.7	101.7
7	BiscoX6573	103.0	90.0	113.3	94.7	100.3	89.6	130.3	93.3	111.2	97.0	104.3	88.0	117.1	99.3	96.7	113.0	100.8	102.5	155.5	109.7	132.6	106.0
8	JH 270	98.0	100.0	98.3	105.0	100.3	101.7	141.7	106.7	108.1	102.0	112.0	82.0	122.2	102.7	88.3	98.3	94.2	98.0	142.4	108.3	125.4	105.9
9	DKC 9120	102.0	95.0	98.3	96.7	98.0	73.1	109.3	86.7	89.6	81.0	87.9	61.5	100.4	74.3	73.3	80.7	97.9	81.4	152.0	92.3	122.2	92.0
10	Venus	100.7	73.3	80.0	83.3	84.3	68.6	108.3	70.7	102.1	84.3	86.8	71.5	115.4	68.0	85.0	72.0	98.6	85.1	132.2	83.3	107.8	88.1
11	TH 2	100.3	76.7	80.0	91.7	87.2	64.4	106.7	70.0	75.9	81.7	79.7	69.0	101.5	72.0	80.0	77.0	95.2	82.4	148.9	105.3	127.1	88.0
12	PMH 189	102.3	88.3	103.3	95.3	97.3	78.7	117.3	97.3	98.6	98.7	98.1	87.5	120.7	84.0	80.0	86.7	94.0	92.1	135.6	110.7	123.2	98.8
13	PMH 2277	97.3	86.7	108.3	100.7	98.3	86.8	119.0	96.7	105.7	100.0	101.6	84.0	103.2	86.7	93.3	75.0	93.7	89.3	150.6	86.7	118.6	98.5
14	IL 8212	91.0	100.0	90.0	94.0	93.8	72.0	112.7	95.0	105.6	93.7	95.8	86.0	93.4	83.0	71.7	63.0	93.3	81.7	132.1	107.7	119.9	93.2
15	IL 8534	99.0	65.0	83.3	102.7	87.5	65.7	114.0	94.0	90.7	92.7	91.4	76.0	105.9	85.3	70.0	82.0	94.5	85.6	142.2	86.0	114.1	91.1
16	Megan-G	87.7	75.0	100.0	83.3	86.5	73.3	111.3	72.3	101.9	79.3	87.6	73.5	105.6	77.7	73.3	77.3	99.3	84.5	135.4	106.0	120.7	90.1
	CHECKS																						
17	Seedtech 2324	98.3	83.3	98.3	107.3	96.8	90.6	123.3	97.0	97.5	91.0	99.9	81.0	114.7	81.0	80.0	71.3	97.2	87.5	148.8	103.0	125.9	97.9
18	Bio 9681	102.7	58.3	95.0	89.0	86.3	64.4	122.3	89.3	105.9	94.3	95.3	83.0	108.6	78.0	71.7	72.3	106.2	86.6	157.1	113.3	135.2	94.8
19	Buland	100.0	85.0	125.0	99.0	102.3	85.4	141.7	105.0	111.3	95.3	107.7	96.5	122.9	96.0	91.7	91.3	119.3	102.9	156.4	93.3	124.9	106.8
	Loc. Mean	**98.5**	**83.6**	**98.1**	**96.4**	**94.1**	**79.6**	**117.4**	**89.4**	**98.0**	**91.5**	**95.2**	**81.1**	**110.4**	**82.8**	**80.1**	**80.5**	**97.2**	**88.7**	**142.1**	**97.8**	**119.9**	**95.5**
	C.D. (5%)	3.25	3.67	23.51	13.07	11.49	24.03	14.26	13.90	14.71	6.19	8.59	8.99	7.65	5.71	18.72	11.76	8.86	7.96	34.98	4.64	20.80	5.38
	C.V. (%)	2.00	2.65	14.48	8.19	8.61	18.23	7.34	9.40	7.14	4.08	7.16	6.70	4.18	4.17	14.12	8.82	5.51	7.83	14.86	2.87	8.26	8.34
	F (Prob)	0.00	0.00	0.06	0.00	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.71	0.00	0.33	0.00

TABLE No. 7: **Performance of medium experimental hybrids at Kanpur, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Karimnagar, Kolhapur, Mandya, Vagarai, Banswara, Godhra in AVT2 trial no. 8 (AVT2-Medium) during Rabi (2014-15)**

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																					
SI										ZN 2												ZN 3	
No	PEDIGREE	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R
1	PMH 2246	5707	5	11059	1	11287	6	13019	5	10268	4	10442	3	6800	1	6794	7	6149	5	8754	6	7788	4
2	HKH 325	6046	3	10256	2	9129	7	11639	7	9267	7	9064	6	5452	5	7077	6	5537	7	6885	7	6803	7
3	DKC 9155(IL8536)	6369	1	9168	4	14422	1	15892	1	11463	1	11762	1	6499	2	8978	2	7871	1	11738	2	9370	1
4	DKC 9142(IJ 8214)	5372	7	6970	7	12785	3	12992	6	9530	6	11120	2	5889	3	9077	1	7766	2	11118	3	8994	2
5	KH K26	6002	4	7955	6	12316	4	13362	4	9909	5	9329	5	5279	6	7450	5	5989	6	9268	5	7463	6
6	DKC9135(IJ 8521)	5615	6	9324	3	12121	5	14069	2	10282	3	9550	4	5828	4	8723	3	6730	3	12877	1	8742	3
	CHECKS																						
7	Bio 9637	6172	2	8201	5	13178	2	13749	3	10325	2	8864	7	5196	7	8085	4	6167	4	9834	4	7629	5
	Location Mean	**5898**		**8990**		**12177**		**13532**		**10149**		**10019**		**5849**		**8026**		**6601**		**10068**		**8113**	
	C.D. (5%)	163		488		1782		1084		879		914		289		1711		1472		1030		1083	
	C.V. (%)	1.54		3.02		8.15		4.46		-		5.07		2.75		11.86		12.41		5.7		-	
	F (Prob)	0		0		0.001		0				0		0		0.03		0.018		0			
	Plot Size	14.4		18		14.4		18		-		14.4		14.4		16.8		16.8		14.4		-	
	AGRONOMY DATA																						
	Sowing Date	8-12		23-11		4-02		2-12		-		23-11		10-12		28-11		4-12		24-11		-	
	Harvest Date	18-05		19-05		10-06		1-06		-		12-05		27-04		9-05		29-05		11-05		-	
	Irrigation Nos	4		8		12		6		-		5		-		3		8		3		-	
	Ferilizer Applied N	120		150		70		120		-		150		120		150		140		150		-	
	Ferilizer Applied P	60		60		24		60		-		75		60		70		60		75		-	
	Ferilizer Applied K	50		60		12		40		-		60		60		60		40		60		-	

TABLE No. 7: **(Cont...)**

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE ARBH	R	COIM	R	KARI	R	KOLH	R	MAND	R	VAGA	R	ZN 4 MEAN	R	BANS	R	GODH	R	ZN 5 MEAN	R	OV'L MEAN	R
1	PMH 2246	8632	4	11605	3	7227	5	5330	6	4839	7	4994	4	7104	6	9771	1	3172	3	6471	1	7975	5
2	HKH 325	6059	7	4325	7	6707	7	5072	7	6325	6	4757	6	5541	7	8779	7	2592	4	5685	7	6806	7
3	DKC 9155(IL8536)	13738	1	13641	1	10107	2	6410	4	7545	4	6524	1	9661	1	9142	5	3304	2	6223	3	9595	1
4	DKC 9142(IJ 8214)	9456	2	10379	5	11169	1	8082	2	8061	2	4641	7	8631	2	9301	3	2464	5	5883	4	8626	2
5	KH K26	9413	3	11221	4	7154	6	6629	3	6985	5	5491	3	7816	5	9119	6	2286	7	5702	6	7956	6
6	DKC9135(IJ 8521)	8618	5	7824	6	9738	3	8197	1	8307	1	4776	5	7910	4	9376	2	3349	1	6362	2	8531	3
	CHECKS																						
7	Bio 9637	8399	6	12163	2	8032	4	6251	5	7878	3	6360	2	8180	3	9298	4	2462	6	5880	5	8252	4
	Location Mean	**9188**		**10165**		**8590**		**6567**		**7134**		**5363**		**7835**		**9255**		**2804**		**6030**		**8249**	
	C.D. (5%)	2312		619		1499		1845		653		1013		1324		705		232		469		1048	
	C.V. (%)	14		3.39		9.71		15.63		5.09		10.51		-		4.24		4.61		-		-	
	F (Prob)	0		0		0		0.011		0		0.006				0.148		0					
	Plot Size	14.4		14.4		16.8		18		14		14.4		-		14.4		9.6		-		-	
	AGRONOMY DATA																						
	Sowing Date	26-11		19-12		30-11		30-12		12-10		29-01		-		30-11		5-12		-		-	
	Harvest Date	21-04		9-04		17-04		6-08		5-04		15-05		-		9-05		4-05		-		-	
	Irrigation Nos	8		10		13		-		12		10		-		6		7		-		-	
	Ferilizer Applied N	150		150		240		120		150		150		-		150		100		-		-	
	Ferilizer Applied P	75		75		80		60		75		75		-		80		50		-		-	
	Ferilizer Applied K	37.5		75		80		40		40		75		-		-		-		-		-	

TABLE No. 7 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Bio 9637																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
		KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	KARI	KOLH	MAND	VAGA	MEAN	BANS	GODH	MEAN	MEAN
1	PMH 2246	-	34.9	-	-	-	17.8	30.9	-	-	-	2.1	2.8	-	-	-	-	-	-	5.1	28.8	10.1	-
2	HKH 325	-	25.1	-	-	-	2.3	4.9	-	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-
3	DKC 9155(IL8536)	3.2	11.8	9.4	15.6	11	32.7	25.1	11	27.6	19.4	22.8	63.6	12.2	25.8	2.6	-	2.6	18.1	-	34.2	5.8	16.3
4	DKC 9142(IJ 8214)	-	-	-	-	-	25.5	13.3	12.3	25.9	13.1	17.9	12.6	-	39.1	29.3	2.3	-	5.5	0	0.1	0	4.5
5	KH K26	-	-	-	-	-	5.2	1.6	-	-	-	-	12.1	-	-	6.1	-	-	-	-	-	-	-
6	DKC9135(IJ 8521)	-	13.7	-	2.3	-	7.7	12.2	7.9	9.1	30.9	14.6	2.6	-	21.2	31.1	5.5	-	-	0.8	36	8.2	3.4
	CHECKS																						
7	Bio 9637	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

S.N	PEDIGREE	MOISTURE % AT HARVEST																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	PMH 2246	16.0	27.2	28.7	21.6	23.4	25.7	19.0	21.4	18.7	28.3	22.6	19.8	20.0	14.3	12.7	15.5	16.7	15.8	18.1	14.8	16.5	19.9
2	HKH 325	15.5	26.5	32.3	20.7	23.7	24.9	19.3	20.7	18.1	24.6	21.5	16.9	21.0	12.6	12.8	16.1	17.8	16.1	17.2	15.9	16.6	19.7
3	DKC 9155(IL8536)	15.0	27.5	28.3	21.9	23.2	27.1	19.6	21.8	19.8	28.0	23.2	17.2	22.3	13.1	12.8	15.7	16.9	16.2	17.5	18.5	18.0	20.3
4	DKC 9142(IJ 8214	16.5	26.6	32.3	24.4	24.9	26.3	19.2	21.8	19.9	24.8	22.4	20.0	22.7	12.4	12.3	15.7	17.3	16.1	18.1	16.1	17.1	20.4
5	KH K26	14.5	25.8	24.9	18.8	21.0	23.5	18.9	21.6	19.5	22.5	21.2	14.5	19.5	12.9	12.1	15.6	17.1	15.4	17.3	15.0	16.1	18.7
6	DKC9135(IJ 8521)	15.5	27.7	26.4	21.8	22.9	24.5	18.6	21.8	19.0	25.0	21.8	14.3	21.7	12.5	12.6	14.7	17.4	15.7	17.3	13.8	15.6	19.4
	CHECKS																						
7	Bio 9637	15.5	27.2	33.4	23.0	24.8	22.6	19.2	21.8	18.6	26.3	21.7	18.3	23.7	13.2	13.4	15.8	18.0	16.8	17.8	17.2	17.5	20.4
	Loc. Mean	**15.5**	**26.9**	**29.5**	**21.7**	**23.4**	**24.9**	**19.1**	**21.5**	**19.1**	**25.6**	**22.0**	**17.3**	**21.5**	**13.0**	**12.7**	**15.6**	**17.3**	**16.0**	**17.6**	**15.9**	**16.7**	**19.8**
	C.D. (5%)	0.80	0.54	2.73	0.93	2.35	0.97	0.48	1.86	2.39	1.62	1.43	6.61	1.00	1.83	0.73	0.32	1.54	1.00	0.70	0.37	2.69	0.84
	C.V. (%)	2.90	1.12	5.21	2.40	6.75	2.19	1.42	4.86	7.04	3.56	4.97	21.52	2.61	7.90	3.26	1.17	5.00	4.78	2.22	1.32	6.57	6.01
	F (Prob)	0.00	0.00	0.00	0.00	0.04	0.00	0.01	0.84	0.61	0.00	0.08	0.39	0.00	0.37	0.05	0.00	0.52	0.20	0.06	0.00	0.45	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : ARBHAVI 21.5%

Table No. 7 (Continued)

		GRAIN SHELLING %																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	PMH 2246	77.0	83.6	86.1	84.9	82.9	78.8	82.6	84.5	85.9	75.5	81.5	85.0	80.4	78.3	75.4	80.8	77.7	79.6	81.6	84.4	83.0	81.3
2	HKH 325	75.5	80.6	85.0	79.1	80.0	74.8	80.6	85.5	80.8	68.5	78.0	79.9	72.9	75.0	85.3	81.4	76.2	78.4	79.4	80.3	79.8	78.9
3	DKC 9155(IL8536)	77.5	81.2	87.3	82.4	82.1	81.2	82.0	84.5	83.9	72.0	80.7	81.8	75.8	72.5	80.4	82.0	78.1	78.4	80.3	79.4	79.8	80.1
4	DKC 9142(IJ 8214)	75.0	82.6	86.4	81.4	81.3	80.4	79.9	82.0	89.3	81.5	82.6	88.3	84.4	82.1	90.9	80.7	79.6	84.3	80.6	84.6	82.6	82.9
5	KH K26	74.5	82.2	83.8	83.6	81.0	79.5	80.2	83.0	86.9	78.0	81.5	84.9	79.8	80.4	85.3	81.4	78.3	81.7	78.8	76.6	77.7	81.0
6	DKC9135(IJ 8521)	76.5	83.4	90.2	84.8	83.7	76.7	79.6	82.0	87.5	75.5	80.2	80.6	79.0	78.7	85.1	80.8	76.9	80.2	79.2	83.5	81.3	81.2
	CHECKS																						
7	Bio 9637	74.5	82.3	88.0	84.1	82.2	78.9	80.1	82.0	84.4	76.5	80.4	85.0	79.0	79.0	88.1	80.1	79.7	81.8	80.4	83.6	82.0	81.5
	Loc. Mean	**75.8**	**82.3**	**86.7**	**82.9**	**81.9**	**78.6**	**80.7**	**83.4**	**85.5**	**75.4**	**80.7**	**83.6**	**78.7**	**78.0**	**84.4**	**81.0**	**78.1**	**80.6**	**80.1**	**81.7**	**80.9**	**81.0**
	C.D. (5%)	0.80	0.47	0.00	1.19	2.01	1.19	1.20	3.47	0.60	0.80	3.14	1.32	0.66	2.03	2.97	1.83	1.01	3.05	2.05	2.16	4.39	1.61
	C.V. (%)	0.59	0.32	0.00	0.81	1.65	0.85	0.84	2.34	0.40	0.60	2.98	0.89	0.47	1.46	1.98	1.27	0.73	3.20	1.44	1.49	2.22	2.91
	F (Prob)	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.21	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.14	0.00	0.18	0.00

		STAND AT HARVEST ('000/ha)																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	PMH 2246	74.8	61.5	71.5	70.2	69.5	66.7	64.4	70.4	60.7	81.3	68.7	70.1	66.4	59.1	49.4	60.7	48.8	59.1	60.2	81.6	70.9	65.8
2	HKH 325	75.7	62.6	70.1	68.1	69.1	68.3	64.6	72.0	64.9	82.6	70.5	65.7	66.2	57.5	53.3	61.4	51.9	59.3	60.4	73.3	66.8	65.8
3	DKC 9155(IL8536)	75.7	61.9	82.2	68.0	71.9	66.9	65.3	70.2	65.5	79.4	69.5	76.4	66.4	63.1	51.5	61.9	53.7	62.2	58.8	80.9	69.8	67.5
4	DKC 9142(IJ 8214)	75.2	60.6	73.4	67.0	69.1	65.3	63.4	71.6	70.6	83.1	70.8	75.9	66.4	61.3	48.7	61.4	57.2	61.8	62.7	74.0	68.3	66.9
5	KH K26	75.7	61.9	80.3	67.4	71.3	66.9	63.9	71.4	63.5	78.9	68.9	70.6	66.7	64.5	51.7	61.0	56.0	61.7	61.1	72.9	67.0	66.7
6	DKC9135(IJ 8521)	75.2	62.4	77.1	67.8	70.6	68.5	63.2	70.2	64.5	79.2	69.1	66.9	66.7	57.9	48.7	61.0	52.5	59.0	60.4	80.2	70.3	66.0
	CHECKS																						
7	Bio 9637	75.7	61.3	81.5	67.0	71.4	67.1	62.3	71.6	70.8	79.9	70.3	67.6	66.7	65.5	50.4	64.5	54.4	61.5	59.5	78.1	68.8	67.3
	Loc. Mean	**75.4**	**61.7**	**76.6**	**67.9**	**70.4**	**67.1**	**63.9**	**71.1**	**65.8**	**80.6**	**69.7**	**70.5**	**66.5**	**61.3**	**50.5**	**61.7**	**53.5**	**60.7**	**60.4**	**77.3**	**68.9**	**66.6**
	C.D. (5%)	1.33	2.68	11.36	2.09	3.90	4.09	2.70	1.93	2.88	4.28	2.60	5.52	0.57	5.97	4.07	2.74	7.84	2.79	5.57	5.04	8.16	1.65
	C.V. (%)	0.99	2.44	8.34	1.73	3.73	3.43	2.38	1.53	2.46	2.98	2.86	4.41	0.48	5.48	4.53	2.49	8.24	3.91	5.18	3.67	4.84	3.63
	F (Prob)	0.65	0.70	0.18	0.08	0.57	0.68	0.33	0.27	0.00	0.25	0.51	0.01	0.53	0.07	0.20	0.12	0.38	0.07	0.81	0.01	0.82	0.19

Table No. 7 (Continued)

		DAYS TO 50% POLLEN SHED																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	PMH 2246	102.0	131.7	81.0	123.7	109.6	120.7	66.0	119.0	115.7	113.7	107.0	81.0	55.0	75.7	75.0	67.3	51.0	67.5	95.3	91.0	93.2	92.0
2	HKH 325	100.0	132.3	78.7	122.0	108.3	128.7	68.3	121.0	118.0	116.7	110.5	82.0	56.7	75.0	80.0	69.3	53.3	69.4	95.3	93.3	94.3	93.6
3	DKC 9155(IL8536)	102.3	135.0	79.7	125.7	110.7	126.7	67.7	120.0	116.0	116.0	109.3	80.0	54.0	73.0	73.0	67.3	51.0	66.4	96.3	91.3	93.8	92.6
4	DKC 9142(IJ 8214)	101.0	137.0	81.0	127.0	111.5	129.7	68.7	114.0	114.3	113.0	107.9	77.7	53.0	71.3	70.0	63.0	47.0	63.7	96.7	92.3	94.5	91.6
5	KH K26	95.7	137.7	78.3	122.3	108.5	123.7	65.7	118.7	113.7	112.0	106.7	79.0	52.3	72.3	70.0	62.0	47.0	63.8	96.7	85.0	90.8	90.1
6	DKC9135(IJ 8521)	99.7	133.0	80.0	122.3	108.8	121.7	65.7	118.3	115.7	111.3	106.5	78.3	52.3	72.0	73.0	63.7	50.0	64.9	96.7	90.3	93.5	90.8
	CHECKS																						
7	Bio 9637	100.0	139.0	81.0	127.7	111.9	125.7	67.0	120.0	118.7	115.7	109.4	80.3	57.7	75.0	78.0	66.0	50.7	67.9	96.7	93.7	95.2	93.7
	Loc. Mean	**100.1**	**135.1**	**80.0**	**124.4**	**109.9**	**125.2**	**67.0**	**118.7**	**116.0**	**114.0**	**108.2**	**79.8**	**54.4**	**73.5**	**74.1**	**65.5**	**50.0**	**66.2**	**96.2**	**91.0**	**93.6**	**92.1**
	C.D. (5%)	3.71	0.94	1.79	2.32	2.86	-	1.86	3.78	2.43	1.82	2.44	1.59	1.07	1.47	-	2.02	1.22	1.47	1.62	0.90	5.46	1.33
	C.V. (%)	2.08	0.39	1.26	1.05	1.75	-	1.56	1.79	1.18	0.90	1.72	1.12	1.11	1.12	-	1.73	1.37	1.89	0.95	0.55	2.38	2.12
	F (Prob)	0.03	0.00	0.02	0.00	0.07	-	0.01	0.03	0.01	0.00	0.01	0.00	0.00	0.00	-	0.00	0.00	0.00	0.28	0.00	0.61	0.00

		DAYS TO 50% SILKING																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	PMH 2246	105.3	132.7	82.7	125.7	111.6	122.7	67.3	121.7	119.0	117.0	109.5	82.0	57.0	76.7	76.0	69.0	54.3	69.2	98.7	93.0	95.8	94.2
2	HKH 325	103.7	135.3	80.3	124.3	110.9	130.7	70.0	124.0	121.7	119.7	113.2	85.3	58.7	77.0	81.0	72.3	56.7	71.8	98.7	94.3	96.5	96.1
3	DKC 9155(IL8536)	107.0	137.0	81.3	127.3	113.2	128.7	69.7	123.0	119.7	119.0	112.0	81.3	56.0	74.7	74.0	70.0	54.7	68.4	99.3	93.3	96.3	95.1
4	DKC 9142(IJ 8214)	104.7	139.0	81.7	130.3	113.9	131.7	69.7	117.0	118.7	116.3	110.7	79.7	55.0	72.3	71.0	65.7	50.0	65.6	99.7	94.3	97.0	93.9
5	KH K26	99.0	139.7	80.3	125.0	111.0	125.7	67.3	121.7	118.3	116.0	109.8	81.0	54.3	74.3	71.0	65.0	50.0	65.9	99.7	87.0	93.3	92.7
6	DKC9135(IJ 8521)	103.7	135.0	80.7	125.3	111.2	123.7	66.7	121.3	119.3	114.7	109.1	80.7	54.3	73.3	74.0	66.0	53.7	67.0	99.7	92.3	96.0	93.2
	CHECKS																						
7	Bio 9637	104.0	141.0	83.0	130.3	114.6	127.7	69.7	122.7	123.3	119.0	112.5	82.3	60.0	77.0	79.0	68.7	54.7	70.3	99.7	95.7	97.7	96.3
	Loc. Mean	**103.9**	**137.1**	**81.4**	**126.9**	**112.3**	**127.2**	**68.6**	**121.6**	**120.0**	**117.4**	**111.0**	**81.8**	**56.5**	**75.0**	**75.1**	**68.1**	**53.4**	**68.3**	**99.3**	**92.9**	**96.1**	**94.5**
	C.D. (5%)	3.48	0.94	1.90	2.03	3.09	-	2.14	3.81	2.52	2.21	2.34	1.85	0.94	1.83	-	2.14	1.19	1.48	1.58	0.90	5.09	1.34
	C.V. (%)	1.88	0.38	1.31	0.90	1.85	-	1.75	1.76	1.18	1.06	1.62	1.27	0.93	1.37	-	1.76	1.25	1.84	0.89	0.54	2.17	2.09
	F (Prob)	0.01	0.00	0.05	0.00	0.10	-	0.02	0.04	0.01	0.00	0.01	0.00	0.00	0.00	-	0.00	0.00	0.00	0.56	0.00	0.57	0.00

Table No. 7 (Continued)

		DAYS TO 75% DRY HUSK																				
					ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	PMH 2246	149.7	172.7	116.0	146.1	165.7	111.0	157.3	153.7	155.3	148.6	128.0	96.0	111.7	116.0	109.3	94.0	109.2	129.0	129.3	129.2	130.9
2	HKH 325	144.0	175.3	118.0	145.8	162.3	109.7	159.7	157.0	153.3	148.4	126.3	96.7	112.0	121.0	110.3	96.3	110.4	129.0	131.3	130.2	131.4
3	DKC 9155(IL8536)	144.3	176.0	115.0	145.1	162.7	109.7	159.3	156.3	156.7	148.9	127.0	95.0	109.7	114.0	111.0	93.3	108.3	129.7	132.3	131.0	130.8
4	DKC 9142(IJ 8214)	150.7	169.0	117.0	145.6	164.7	110.0	160.7	155.0	156.7	149.4	127.0	94.3	107.3	111.0	111.3	90.0	106.8	127.7	129.0	128.3	130.1
5	KH K26	141.0	173.7	112.3	142.3	162.7	108.0	157.3	155.3	150.0	146.7	127.3	94.3	109.3	111.0	106.0	88.7	106.1	130.0	129.0	129.5	128.5
6	DKC9135(IJ 8521)	140.3	172.0	115.3	142.6	160.7	108.0	159.7	155.7	155.0	147.8	121.0	94.0	108.3	114.0	112.0	93.3	107.1	130.7	130.7	130.7	129.4
	CHECKS																					
7	Bio 9637	146.0	171.0	119.0	145.3	166.7	109.0	160.3	159.0	155.3	150.1	126.3	98.0	112.0	119.0	111.7	94.0	110.2	128.7	132.0	130.3	131.8
	Loc. Mean	**145.1**	**172.8**	**116.1**	**144.7**	**163.6**	**109.3**	**159.2**	**156.0**	**154.6**	**148.6**	**126.1**	**95.5**	**110.0**	**115.1**	**110.2**	**92.8**	**108.3**	**129.2**	**130.5**	**129.9**	**130.4**
	C.D. (5%)	1.93	0.94	1.63	5.50	1.55	2.22	3.38	2.00	2.43	2.03	3.12	0.71	1.83	-	0.91	1.76	2.33	4.98	2.99	2.73	1.42
	C.V. (%)	0.75	0.30	0.79	2.14	0.53	1.14	1.20	0.72	0.88	1.05	1.39	0.42	0.93	-	0.46	1.06	1.83	2.17	1.29	0.86	1.54
	F (Prob)	0.00	0.00	0.00	0.61	0.00	0.11	0.26	0.00	0.00	0.05	0.01	0.00	0.00	-	0.00	0.00	0.00	0.89	0.12	0.35	0.00

Table No. 7 (Continued)

		PLANT HEIGHT(cm)																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	PMH 2246	202.3	200.0	198.3	268.7	217.3	182.0	221.7	172.7	195.4	186.0	191.5	194.5	191.7	171.7	180.0	201.7	188.0	187.9	265.7	130.0	197.8	197.1
2	HKH 325	197.7	175.0	178.3	231.0	195.5	194.1	235.7	180.3	169.1	193.3	194.5	185.0	238.5	189.3	200.0	219.7	171.3	200.6	267.7	150.7	209.2	198.6
3	DKC 9155(IL8536)	194.7	190.0	190.0	257.0	207.9	200.5	214.7	175.7	187.3	205.3	196.7	189.0	206.1	195.0	176.7	197.7	188.4	192.1	254.0	155.7	204.8	198.7
4	DKC 9142(IJ 8214)	197.7	176.7	208.3	261.0	210.9	177.6	226.0	178.0	191.8	191.0	192.9	171.5	214.4	185.7	151.7	209.3	181.5	185.7	267.0	165.7	216.3	197.3
5	KH K26	186.7	165.0	193.3	238.3	195.8	191.0	220.3	174.0	180.4	185.3	190.2	183.0	214.7	177.3	173.3	185.7	181.9	186.0	262.0	149.0	205.5	191.8
6	DKC9135(IJ 8521)	197.7	173.3	176.7	270.0	204.4	170.3	231.7	166.0	189.9	191.7	189.9	182.0	189.6	193.0	196.7	197.7	198.5	192.9	255.7	157.7	206.7	196.4
	CHECKS																						
7	Bio 9637	175.7	178.3	213.3	260.3	206.9	201.6	233.7	188.7	176.3	197.7	199.6	183.5	209.6	182.3	185.0	203.3	197.7	193.6	273.3	163.3	218.3	201.4
	Loc. Mean	**193.2**	**179.8**	**194.0**	**255.2**	**205.5**	**188.1**	**226.2**	**176.5**	**184.3**	**192.9**	**193.6**	**184.1**	**209.2**	**184.9**	**180.5**	**202.1**	**186.8**	**191.3**	**263.6**	**153.1**	**208.4**	**197.3**
	C.D. (5%)	38.80	5.93	16.85	8.59	16.83	17.74	12.64	22.90	12.34	10.58	11.75	9.74	7.81	11.96	37.44	26.55	12.61	13.82	33.55	8.93	23.11	7.45
	C.V. (%)	11.29	1.85	4.88	1.89	5.51	5.30	3.14	7.29	3.76	3.08	4.65	2.98	2.10	3.64	11.66	7.38	3.80	6.13	7.15	3.28	4.53	5.55
	F (Prob)	0.78	0.00	0.00	0.00	0.13	0.02	0.03	0.53	0.01	0.02	0.59	0.01	0.00	0.01	0.19	0.26	0.01	0.33	0.87	0.00	0.45	0.31

		EAR HEIGHT(cm)																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	PMH 2246	99.7	96.7	105.0	116.0	104.3	75.1	116.0	85.0	98.5	93.0	93.5	100.5	105.4	84.0	95.0	94.7	94.1	95.6	150.6	85.3	118.0	99.7
2	HKH 325	96.3	85.0	100.0	84.0	91.3	80.9	132.7	89.0	91.1	102.3	99.2	105.0	125.3	98.0	113.3	109.0	97.9	108.1	132.1	79.3	105.7	101.3
3	DKC 9155(IL8536)	91.0	90.0	100.0	94.3	93.8	67.6	105.7	79.0	93.5	99.3	89.0	89.5	108.9	90.7	80.0	78.0	90.4	89.6	142.2	76.7	109.5	92.8
4	DKC 9142(IJ 8214)	99.0	78.3	110.0	96.7	96.0	63.2	114.7	88.0	92.5	95.3	90.7	76.5	108.3	79.3	75.0	88.3	89.0	86.1	160.5	95.3	127.9	94.7
5	KH K26	87.7	70.0	100.0	95.0	88.2	74.2	117.3	84.7	79.7	91.0	89.4	95.0	119.4	79.0	90.0	88.7	91.5	93.9	135.4	92.7	114.0	93.6
6	DKC9135(IJ 8521)	98.3	60.0	91.7	101.0	87.8	60.1	106.3	65.7	86.1	94.3	82.5	79.0	101.0	86.0	90.0	81.7	91.7	88.2	132.0	76.7	104.3	88.3
	CHECKS																						
7	Bio 9637	102.0	75.0	125.0	102.3	101.1	80.7	118.7	86.3	74.3	93.3	90.7	91.5	113.7	90.0	86.7	96.7	97.9	96.1	150.5	86.7	118.6	98.3
	Loc. Mean	**96.3**	**79.3**	**104.5**	**98.5**	**94.6**	**71.7**	**115.9**	**82.5**	**88.0**	**95.5**	**90.7**	**91.0**	**111.7**	**86.7**	**90.0**	**91.0**	**93.2**	**93.9**	**143.3**	**84.7**	**114.0**	**95.5**
	C.D. (5%)	4.44	2.63	18.77	4.41	13.00	13.65	11.61	18.62	13.31	12.71	8.64	8.95	6.79	10.38	22.46	15.55	15.44	6.97	17.07	9.12	15.12	5.43
	C.V. (%)	2.59	1.86	10.09	2.52	9.25	10.70	5.63	12.68	8.51	7.48	7.30	5.53	3.41	6.73	14.02	9.61	9.31	6.29	6.69	6.06	5.42	8.35
	F (Prob)	0.00	0.00	0.05	0.00	0.11	0.03	0.01	0.18	0.02	0.51	0.03	0.00	0.00	0.02	0.06	0.02	0.79	0.00	0.02	0.00	0.07	0.00

TABLE No. 8: **Performance of experimental hybrids at Kanpur, Karnal, Ludhiana, Pantnagar, Bahraich, Bhubaneshwar, Dholi, Ranchi, Varanasi, Arbhavi, Coimbatore, Karimnagar, Kolhapur, Mandya, Vagarai, Banswara, Godhra in trial no. QPM12 during Rabi (2014-15)**

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																					
SI										ZN 2												ZN 3	
No	PEDIGREE	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R
1	MMHQPM-6-12-13-QPMII	5966	4	7548	5	11118	2	12374	4	9252	5	7422	4	7018	2	9489	1	5982	5	9880	3	7958	3
2	VEHQ 14-1-QPM1	6218	2	9867	4	10879	3	13640	2	10151	3	9652	2	7625	1	7256	4	6536	2	10514	2	8317	1
3	HM9-FILLER	6944	1	11001	1	11224	1	13208	3	10594	1	9053	3	5669	5	6669	5	6094	3	9636	4	7424	5
	CHECKS																						
4	HQPM 1	6077	3	10409	2	10678	4	14198	1	10341	2	7065	5	5962	4	7810	3	6704	1	10655	1	7639	4
5	HQPM 5	4981	5	10383	3	10495	5	11296	5	9289	4	11381	1	6105	3	7877	2	6054	4	9131	5	8110	2
	Location Mean	**6037**		**9841**		**10879**		**12943**		**9925**		**8915**		**6476**		**7820**		**6274**		**9963**		**7890**	
	C.D. (5%)	698		3709		1607		1033		1762		1058		505		945		981		831		864	
	C.V. (%)	5.99		19.52		7.65		5.13		-		7.63		5.01		7.77		10.05		5.36		-	
	F (Prob)	0.001		0.218		0.745		0				0		0		0		0.484		0.005			
	Plot Size	9.6		12		9.6		12		-		9.6		9.6		11.2		11.2		9.6		-	
	AGRONOMY DATA																						
	Sowing Date	8-12		23-11		5-02		2-12		-		24-11		17-12		26-11		5-12		21-11		-	
	Harvest Date	15-05		27-05		12-06		29-05		-		9-05		4-05		30-05		4-06		5-05		-	
	Irrigation Nos	4		8		12		6		-		5		-		3		8		3		-	
	Ferilizer Applied N	120		150		70		120		-		150		120		150		140		150		-	
	Ferilizer Applied P	60		60		24		60		-		75		60		70		60		75		-	
	Ferilizer Applied K	50		60		12		40		-		60		60		60		40		60		-	

TABLE No. 8: **(Cont…)**

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE ARBH	R	COIM	R	KARI	R	KOLH	R	MAND	R	VAGA	R	ZN 4 MEAN	R	BANS	R	GODH	R	ZN 5 MEAN	R	OV'L MEAN	R
1	MMHQPM-6-12-13-QPMII	8918	4	10654	3	8332	4	9468	1	6636	4	4587	4	8099	4	9403	5	8353	2	8878	4	8420	4
2	VEHQ 14-1-QPM1	13171	1	10244	5	8830	2	7354	4	6762	3	5817	1	8696	2	10281	2	8257	3	9269	3	8994	1
3	HM9-FILLER	8441	5	11813	1	6710	5	7407	2	8195	1	4080	5	7774	5	9712	4	6764	5	8238	5	8389	5
	CHECKS																						
4	HQPM 1	13042	2	10531	4	8603	3	7374	3	7616	2	5380	2	8758	1	11368	1	8102	4	9735	1	8916	2
5	HQPM 5	11221	3	11550	2	9203	1	6911	5	6494	5	4727	3	8351	3	10060	3	8590	1	9325	2	8615	3
	Location Mean	**10959**		**10958**		**8335**		**7702**		**7141**		**4918**		**8336**		**10165**		**8013**		**9089**		**8667**	
	C.D. (5%)	1634		891		1620		1375		723		674		1153		703		1712		1207		1218	
	C.V. (%)	9.58		4.21		12.49		11.47		6.5		8.8		-		4.44		11.06		-		-	
	F (Prob)	0		0.006		0.063		0.007		0		0				0		0.103					
	Plot Size	9.6		9.6		11.2		12		11.2		9.6		-		9.6		9.6		-		-	
	AGRONOMY DATA																						
	Sowing Date	26-11		20-12		30-11		29-12		12-10		29-01		-		30-11		5-12		-		-	
	Harvest Date	18-04		10-04		16-04		6-12		5-04		15-05		-		7-05		18-05		-		-	
	Irrigation Nos	8		10		13		-		12		10		-		6		7		-		-	
	Ferilizer Applied N	150		150		240		120		150		150		-		150		100		-		-	
	Ferilizer Applied P	75		75		80		60		75		75		-		80		50		-		-	
	Ferilizer Applied K	37.5		75		80		40		40		75		-		-		-		-		-	

TABLE No. 8 (Cont..)

		GRAIN YIELD % SUPERIORITY OVER THE HQPM 1																					
SI						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
No	PEDIGREE	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	KARI	KOLH	MAND	VAGA	MEAN	BANS	GODH	MEAN	MEAN
1	MMHQPM-6-12-13-QPMII	-	-	4.1	-	-	5.1	17.7	21.5	-	-	4.2	-	1.2	-	28.4	-	-	-	-	3.1	-	-
2	VEHQ 14-1-QPM1	2.3	-	1.9	-	-	36.6	27.9	-	-	-	8.9	1	-	2.6	-	-	8.1	-	-	1.9	-	0.9
3	HM9-FILLER	14.3	5.7	5.1	-	2.5	28.1	-	-	-	-	-	-	12.2	-	0.5	7.6	-	-	-	-	-	-
	CHECKS																						
4	HQPM 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	HQPM 5	-	-	-	-	-	61.1	2.4	0.9	-	-	6.2	-	9.7	7	-	-	-	-	-	6	-	-

		COB YIELD % SUPERIORITY OVER THE HQPM 5																					
SI						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
No	PEDIGREE	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	KARI	KOLH	MAND	VAGA	MEAN	BANS	GODH	MEAN	MEAN
1	MMHQPM-6-12-13-QPMII	19.8	-	5.9	9.5	-	-	14.9	20.5	-	8.2	-	-	-	-	37	2.2	-	-	-	-	-	-
2	VEHQ 14-1-QPM1	24.8	-	3.7	20.7	9.3	-	24.9	-	8	15.1	2.5	17.4	-	-	6.4	4.1	23.1	4.1	2.2	-	-	4.4
3	HM9-FILLER	39.4	6	6.9	16.9	14.1	-	-	-	0.7	5.5	-	-	2.3	-	7.2	26.2	-	-	-	-	-	-
	CHECKS																						
4	HQPM 1	22	0.3	1.7	25.7	11.3	-	-	-	10.7	16.7	-	16.2	-	-	6.7	17.3	13.8	4.9	13	-	4.4	3.5
5	HQPM 5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table No. 8 (Continued)

	MOISTURE % AT HARVEST																					
					ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	MMHQPM-6-12-13-QPMII	15.7	23.6	24.8	19.7	20.9	25.0	17.5	18.0	18.3	28.3	21.4	23.4	20.9	11.5	11.9	13.3	18.3	16.5	17.9	14.2	16.0	18.9
2	VEHQ 14-1-QPM1	15.0	24.3	26.9	20.1	21.6	26.3	17.9	20.6	18.4	29.2	22.4	23.7	24.1	14.1	11.8	15.3	17.2	17.7	17.9	14.1	16.0	19.8
3	HM9-FILLER	14.7	23.2	23.5	16.4	19.4	23.6	17.6	17.5	20.3	26.7	21.1	20.0	24.3	9.0	12.4	13.5	17.3	16.1	18.0	13.6	15.8	18.3
	CHECKS																						
4	HQPM 1	15.3	23.8	25.0	20.0	21.0	24.0	17.6	19.3	18.0	29.6	21.7	26.4	21.7	12.2	11.7	14.9	18.3	17.5	18.2	14.7	16.4	19.4
5	HQPM 5	16.3	23.3	26.4	20.2	21.6	25.3	17.6	19.1	17.9	29.7	21.9	21.4	22.8	11.9	11.7	15.9	18.3	17.0	18.1	14.2	16.1	19.4
	Loc. Mean	**15.4**	**23.6**	**25.3**	**19.3**	**20.9**	**24.8**	**17.6**	**18.9**	**18.5**	**28.7**	**21.7**	**23.0**	**22.7**	**11.7**	**11.9**	**14.6**	**17.9**	**17.0**	**18.0**	**14.1**	**16.1**	**19.2**
	C.D. (5%)	1.61	1.85	1.22	0.38	1.28	0.73	0.38	0.97	0.82	0.74	1.31	5.64	0.28	2.05	0.45	0.93	1.20	1.75	0.16	0.18	0.72	0.73
	C.V. (%)	5.56	4.17	2.56	1.30	3.97	1.92	1.42	3.33	2.86	1.67	4.49	15.94	0.66	11.36	2.44	4.13	4.37	8.56	0.57	0.66	1.62	5.54
	F (Prob)	0.25	0.68	0.00	0.00	0.02	0.00	0.37	0.00	0.00	0.00	0.29	0.20	0.00	0.00	0.03	0.00	0.12	0.31	0.01	0.00	0.31	0.00

	GRAIN SHELLING %																					
					ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	MMHQPM-6-12-13-QPMII	77.7	82.3	87.4	82.8	82.5	76.5	82.2	81.0	83.2	77.5	80.1	83.6	78.6	79.6	92.8	82.5	76.9	82.3	77.1	83.6	80.3	81.5
2	VEHQ 14-1-QPM1	75.0	83.2	87.4	83.1	82.2	79.4	82.1	80.5	84.2	75.5	80.3	84.0	77.6	75.6	71.2	81.5	79.3	78.2	78.9	81.7	80.3	80.0
3	HM9-FILLER	76.3	82.3	89.5	82.3	82.6	77.8	81.3	80.5	82.6	72.0	78.8	83.4	76.1	78.7	80.0	80.9	75.8	79.2	78.2	72.2	75.2	79.4
	CHECKS																						
4	HQPM 1	75.3	83.2	82.0	85.6	81.5	75.1	83.5	82.0	85.3	76.5	80.5	86.3	77.5	77.2	71.4	80.0	78.1	78.4	78.8	78.7	78.7	79.8
5	HQPM 5	74.3	83.3	83.7	80.0	80.3	81.5	79.6	81.5	82.8	75.0	80.1	82.2	78.2	76.4	66.9	81.0	76.2	76.8	78.3	85.4	81.8	79.2
	Loc. Mean	**75.7**	**82.8**	**86.0**	**82.8**	**81.8**	**78.0**	**81.7**	**81.1**	**83.6**	**75.3**	**80.0**	**83.9**	**77.6**	**77.5**	**76.4**	**81.2**	**77.3**	**79.0**	**78.2**	**80.3**	**79.3**	**80.0**
	C.D. (5%)	1.85	1.92	-	1.35	3.05	1.00	0.77	1.21	0.82	0.34	2.33	2.45	0.38	1.96	3.44	0.76	2.39	5.10	1.07	11.64	10.59	2.15
	C.V. (%)	1.30	1.23	-	1.06	2.42	0.83	0.61	0.97	0.64	0.30	2.18	1.89	0.26	1.65	2.92	0.61	2.00	5.36	0.89	7.70	4.81	3.93
	F (Prob)	0.02	0.57	0.00	0.00	0.49	0.00	0.00	0.08	0.00	0.00	0.60	0.04	0.00	0.00	0.00	0.00	0.04	0.26	0.02	0.17	0.55	0.25

Table No. 8 (Continued)

		STAND AT HARVEST ('000/ha)																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	MMHQPM-6-12-13-QPMII	78.1	62.2	85.1	67.5	73.2	59.6	63.8	71.4	69.9	80.5	69.0	89.1	66.7	56.9	50.4	58.3	55.5	62.8	71.9	80.2	76.0	68.6
2	VEHQ 14-1-QPM1	79.2	62.5	81.9	68.1	72.9	60.2	64.6	71.9	73.2	81.0	70.2	86.7	66.0	67.9	51.7	59.4	58.3	65.0	72.4	79.9	76.1	69.7
3	HM9-FILLER	78.5	63.6	83.7	67.9	73.4	60.4	63.8	71.7	70.1	81.8	69.5	88.3	66.7	59.4	52.7	65.8	56.5	64.9	74.7	77.1	75.9	69.6
	CHECKS																						
4	HQPM 1	78.5	63.1	86.8	67.3	73.9	62.8	63.8	71.9	70.5	82.0	70.2	96.4	66.0	64.7	51.7	61.4	58.3	66.4	73.7	78.8	76.3	70.4
5	HQPM 5	79.9	63.1	80.2	67.7	72.7	61.2	64.1	70.8	65.6	81.8	68.7	93.0	66.0	68.1	47.3	60.3	58.1	65.4	71.4	75.0	73.2	69.0
	Loc. Mean	**78.8**	**62.9**	**83.5**	**67.7**	**73.2**	**60.8**	**64.0**	**71.5**	**69.9**	**81.4**	**69.5**	**90.7**	**66.3**	**63.4**	**50.8**	**61.0**	**57.3**	**64.9**	**72.8**	**78.2**	**75.5**	**69.5**
	C.D. (5%)	2.58	2.06	7.19	2.68	2.30	6.11	3.03	2.45	5.74	3.81	1.82	11.53	0.88	2.30	3.47	4.97	2.95	3.62	3.58	4.58	4.94	1.45
	C.V. (%)	1.74	1.74	4.57	2.57	2.04	6.52	3.07	2.22	5.33	3.04	1.96	8.25	0.70	2.35	4.43	5.29	3.34	4.63	3.19	3.11	2.36	3.04
	F (Prob)	0.57	0.59	0.33	0.96	0.82	0.82	0.97	0.85	0.14	0.89	0.34	0.40	0.19	0.00	0.04	0.05	0.19	0.36	0.29	0.14	0.47	0.14

		DAYS TO 50% POLLEN SHED																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	MMHQPM-6-12-13-QPMII	96.3	138.3	77.7	122.3	108.6	122.0	67.3	117.0	116.5	110.8	106.7	80.3	55.3	71.3	78.0	63.3	48.8	66.1	97.3	86.0	91.6	91.1
2	VEHQ 14-1-QPM1	94.3	138.7	78.0	124.0	108.8	130.0	71.3	120.8	118.5	115.0	111.1	81.0	56.3	73.8	81.5	65.0	50.8	68.1	98.0	86.0	92.0	93.1
3	HM9-FILLER	87.7	138.0	77.7	119.0	105.6	120.0	64.8	115.5	114.8	107.0	104.4	76.0	57.7	70.3	77.0	61.3	48.5	65.1	97.0	88.3	92.7	89.4
	CHECKS																						
4	HQPM 1	92.3	138.0	77.0	122.8	107.5	123.5	72.5	120.0	119.3	113.8	109.8	80.0	57.7	72.3	79.0	64.5	51.8	67.5	97.5	87.0	92.3	92.3
5	HQPM 5	88.0	138.3	82.0	124.8	108.3	126.0	69.8	119.5	119.0	117.0	110.3	81.0	58.0	74.0	80.0	66.8	51.5	68.5	99.8	89.0	94.4	93.2
	Loc. Mean	**91.7**	**138.3**	**78.5**	**122.6**	**107.8**	**124.3**	**69.1**	**118.6**	**117.6**	**112.7**	**108.5**	**79.7**	**57.0**	**72.3**	**79.1**	**64.2**	**50.3**	**67.1**	**97.9**	**87.3**	**92.6**	**91.8**
	C.D. (5%)	3.65	1.87	2.19	1.65	3.66	1.32	1.27	2.60	1.34	1.50	2.03	1.88	1.17	1.62	3.44	1.84	0.70	1.29	1.34	1.06	2.43	1.22
	C.V. (%)	2.12	0.72	1.48	0.87	2.20	0.69	1.20	1.42	0.74	0.86	1.39	1.53	1.09	1.45	2.83	1.86	0.91	1.60	0.89	0.64	0.95	1.94
	F (Prob)	0.00	0.91	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.01	0.00	0.16	0.00

Table No. 8 (Continued)

		DAYS TO 50% SILKING																					
						ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	MMHQPM-6-12-13-QPMII	101.3	140.3	79.3	125.3	111.6	124.0	68.8	119.0	120.8	115.3	109.6	82.3	58.7	73.3	79.0	66.5	53.0	68.8	100.8	88.0	94.4	93.8
2	VEHQ 14-1-QPM1	98.3	140.7	79.7	126.0	111.2	132.0	73.0	122.8	122.5	118.8	113.8	84.0	59.7	76.0	80.0	70.5	54.3	70.7	101.3	88.0	94.6	95.7
3	HM9-FILLER	92.0	140.0	79.0	121.8	108.2	122.0	66.8	118.0	119.0	110.3	107.2	78.5	60.3	72.3	78.0	63.8	51.8	67.4	100.0	89.3	94.7	91.9
	CHECKS																						
4	HQPM 1	95.7	139.7	79.0	125.5	110.0	125.5	75.3	122.0	124.0	117.3	112.8	82.3	60.7	73.8	80.0	68.5	55.3	70.1	100.5	88.7	94.6	94.9
5	HQPM 5	91.0	139.3	83.7	127.0	110.3	128.0	72.5	122.0	123.8	120.8	113.4	84.0	60.7	75.8	81.0	69.5	55.0	71.0	102.8	90.0	96.4	95.7
	Loc. Mean	**95.7**	**140.0**	**80.1**	**125.1**	**110.2**	**126.3**	**71.3**	**120.8**	**122.0**	**116.5**	**111.4**	**82.2**	**60.0**	**74.2**	**79.6**	**67.8**	**53.9**	**69.6**	**101.1**	**88.8**	**94.9**	**94.4**
	C.D. (5%)	3.33	1.67	1.77	1.12	3.97	1.32	1.43	2.69	1.20	1.62	2.20	2.17	1.94	1.98	-	2.72	0.86	1.30	1.31	0.77	2.01	1.29
	C.V. (%)	1.85	0.63	1.17	0.58	2.34	0.68	1.30	1.45	0.64	0.90	1.47	1.71	1.72	1.73	-	2.61	1.03	1.55	0.84	0.46	0.76	1.99
	F (Prob)	0.00	0.43	0.00	0.00	0.43	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.18	0.01	-	0.00	0.00	0.00	0.01	0.00	0.19	0.00

		DAYS TO 75% DRY HUSK																					
					ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	MMHQPM-6-12-13-QPMII	136.7	171.0	116.0	141.2	162.0	107.5	159.0	155.5	155.3	147.9	127.0	98.7	108.3	122.0	111.0	92.8	109.9	141.8	132.0	136.9	131.0
2	VEHQ 14-1-QPM1	138.3	171.0	119.0	142.8	162.5	114.5	159.8	160.3	156.3	150.7	129.5	99.0	111.0	123.0	117.0	95.3	112.5	142.0	132.7	137.3	133.2
3	HM9-FILLER	141.0	170.7	114.3	142.0	159.0	102.5	153.0	154.0	152.0	144.1	120.3	100.0	107.3	121.0	106.0	89.3	107.3	139.3	131.3	135.3	128.8
	CHECKS																						
4	HQPM 1	138.3	169.7	118.3	142.1	158.0	114.5	159.5	159.5	157.8	149.9	129.5	99.3	108.8	123.0	116.0	96.8	112.2	139.8	133.3	136.5	132.6
5	HQPM 5	135.7	169.3	119.0	141.3	164.0	108.5	159.8	159.8	155.8	149.6	127.8	98.7	110.8	124.0	113.0	96.0	111.7	141.8	134.3	138.0	132.4
	Loc. Mean	**138.0**	**170.3**	**117.3**	**141.9**	**161.1**	**109.5**	**158.2**	**157.8**	**155.4**	**148.4**	**126.8**	**99.1**	**109.2**	**122.6**	**112.6**	**94.0**	**110.7**	**140.9**	**132.7**	**136.8**	**131.6**
	C.D. (5%)	2.58	3.33	1.68	3.73	1.91	2.12	5.05	1.34	3.32	2.95	3.98	1.67	1.98	-	1.26	1.27	2.38	1.71	3.19	2.70	1.46
	C.V. (%)	0.99	1.04	0.76	1.40	0.77	1.26	2.07	0.55	1.39	1.48	2.03	0.89	1.18	-	0.73	0.88	1.79	0.79	1.28	0.71	1.57
	F (Prob)	0.01	0.68	0.00	0.87	0.00	0.00	0.05	0.00	0.03	0.00	0.00	0.38	0.01	-	0.00	0.00	0.00	0.01	0.31	0.23	0.00

Table No. 8 (Continued)

	PLANT HEIGHT(cm)																						
					ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	MMHQPM-6-12-13-QPMII	192.3	158.3	183.3	246.5	195.1	197.1	201.3	182.3	177.2	190.8	189.7	178.5	218.1	180.3	140.0	209.0	160.2	181.0	265.8	215.7	240.7	193.9
2	VEHQ 14-1-QPM1	186.7	161.7	176.7	260.8	196.4	189.0	210.3	170.0	178.5	194.5	188.4	173.8	215.7	194.8	148.8	180.8	175.7	181.6	266.0	224.3	245.2	194.6
3	HM9-FILLER	198.3	138.3	166.7	228.5	183.0	180.7	199.8	142.3	170.4	185.3	175.7	158.3	221.7	175.8	117.5	201.8	162.3	172.9	266.5	243.0	254.8	185.7
	CHECKS																						
4	HQPM 1	173.7	156.7	190.0	245.0	191.3	199.8	202.5	174.3	181.4	191.5	189.9	168.8	218.8	192.3	142.5	207.3	178.0	184.6	260.8	230.0	245.4	194.9
5	HQPM 5	185.7	151.7	183.3	257.3	194.5	208.7	218.8	185.0	185.7	189.0	197.4	173.5	222.3	181.3	148.8	210.3	186.2	187.0	269.5	228.7	249.1	199.1
	Loc. Mean	**187.3**	**153.3**	**180.0**	**247.6**	**192.1**	**195.0**	**206.5**	**170.8**	**178.6**	**190.2**	**188.2**	**170.6**	**219.3**	**184.9**	**139.5**	**201.8**	**172.5**	**181.4**	**265.7**	**228.3**	**247.0**	**193.6**
	C.D. (5%)	7.27	32.75	21.54	8.54	15.07	16.10	13.33	25.60	6.29	4.75	9.52	19.06	7.04	8.95	31.39	39.63	7.19	10.74	10.31	9.83	20.31	5.90
	C.V. (%)	2.06	11.34	6.35	2.24	5.09	5.36	4.19	9.73	2.29	1.62	3.77	7.26	1.70	3.14	14.61	12.75	2.71	4.92	2.52	2.29	2.96	4.45
	F (Prob)	0.00	0.54	0.23	0.00	0.35	0.02	0.05	0.02	0.00	0.01	0.00	0.25	0.27	0.00	0.24	0.49	0.00	0.11	0.50	0.00	0.49	0.00

	EAR HEIGHT(cm)																						
					ZN 2						ZN 3							ZN 4			ZN 5	OV'L
S.No.	PEDIGREE	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	Mean	Mean
1	MMHQPM-6-12-13-QPMII	97.3	80.0	118.3	113.3	102.2	88.1	112.8	94.8	87.7	128.8	102.4	102.5	120.8	96.0	75.0	102.8	95.6	98.0	118.1	111.7	114.9	102.5
2	VEHQ 14-1-QPM1	80.0	78.3	90.0	95.5	86.0	74.8	100.0	78.3	75.7	101.3	86.0	81.8	118.5	95.8	63.8	119.0	95.3	91.0	116.9	112.3	114.6	91.1
3	HM9-FILLER	85.0	61.7	80.0	102.3	82.2	84.3	98.3	73.3	80.2	102.8	87.7	74.5	126.6	77.8	62.5	93.3	84.9	85.2	115.7	132.0	123.8	90.1
	CHECKS																						
4	HQPM 1	81.0	73.3	93.3	89.0	84.2	84.7	96.0	81.3	79.3	88.8	86.0	83.0	118.0	90.3	56.3	93.3	94.7	88.5	114.4	116.3	115.4	90.0
5	HQPM 5	90.0	66.7	95.0	111.5	90.8	93.8	114.5	97.5	83.6	101.5	98.2	89.8	118.7	95.8	66.3	100.3	97.1	93.5	117.0	118.0	117.5	97.3
	Loc. Mean	**86.7**	**72.0**	**95.3**	**102.3**	**89.1**	**85.1**	**104.3**	**85.0**	**81.3**	**104.6**	**92.1**	**86.3**	**120.5**	**91.1**	**64.8**	**101.7**	**93.5**	**91.2**	**116.4**	**118.1**	**117.2**	**94.2**
	C.D. (5%)	23.91	12.03	20.30	7.62	11.28	20.31	10.13	14.62	7.10	6.52	8.86	15.56	5.72	5.99	18.86	38.52	3.56	7.88	7.19	7.88	17.55	4.90
	C.V. (%)	14.66	8.88	11.31	4.83	8.22	15.49	6.31	11.17	5.67	4.05	7.18	11.70	2.52	4.27	18.90	24.58	2.47	6.44	4.01	3.55	5.39	7.36
	F (Prob)	0.48	0.04	0.02	0.00	0.02	0.40	0.00	0.01	0.03	0.00	0.00	0.02	0.04	0.00	0.35	0.60	0.00	0.03	0.83	0.00	0.61	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : MANDYA 24.6%

AGRONOMY

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Agronomy summary of AICRP rabi 2014-15 trials

A set of thirteen pre-release late maturity genotypes were tested at 8 locations in three zones (II, IV and IV). The genotypes IL8212, IL8534, DKC 9120, P 3533 and X35C357 were significantly outperformed over best check (Seedtech 2324-C) at Arbhavi in zone IV, while higher planting density (Upto1 lakh plants/ha) found effective and resulted in significantly higher yield at Vagarai in zone IV. In zone II at delhi the IL8212, IL 8534, PMH 2277, PMH 189, Ivori, X35C537, KMH 2589, P3533, DKC 9120 and Bisco x 6573 genotypes were found significantly higher yielding over best check (Buland), while at karnal genotype Ivori was found out yielder over best check (Bio 9681) and at Pantnagar IL8212, IL 8534, PMH 2277, Ivori and KMH 2589 genotypes were found superior over best check (Seedtech 2324). While in Zone V at Banswara, Venus, Bisco x 6573, JH 270 and P 3533 gave significantly higher yield over best check (Bio 9681) with high density planting (60 x 15 cm^2). The six medium maturity AHT–II year genotypes were tested with different checks, nutrient doses and planting densities in three zones (II, IV and IV) at eight locations. The genotype DKC 9155, DKC 9142 and PMH 2246 gave significantly higher yield over best check at Banswara (Zone V) and Arbhavi (Zone IV). The interaction effect of medium maturity genotypes and planting densities was also found significant at Bahraich, Banwara and Karimnagar. The DKC 9135, PMH 2246 HKH 9328 and DKC 9155 medium maturity genotypes gave significantly higher yield over check at Pantnagar (Zone II). Three early maturity genotypes with check were tested at nine locations in three zones with different nutrient levels and plant densities. The HKH 25, HKH 329, and HKH 330 were gave significantly higher yield at Arbhavi, Karimnagar (Zone IV), Ludhiana and Pantnagar (Zone II) while only HKH 25 and HKH 329 at Banswara (Zone V) and HKH 330 at Karnal (Zone II), The higher planting density (upto1.0 lakh plants/ha) gave significantly higher yield of early maturing genotypes over lower density (83,333 plants/ha). However, no baby corn AHI-II year genotypes was found superior to check at Dholi in Zone III.

In Rabi season, planting of popular maize hybrids in high density (1.0 lakh plants/ha) was found effective for achieving significantly higher yields at Dholi (10.0 t/ha), Banswara (8.8 t/ha) and Vagarai, while no-significant yield difference was found under different planting densities at Karimanagar. The application of nutrients based on soil test crop response (STCR) based equations resulted in significantly higher yield at Dholi, Karimnagar and Banswara (about 9.0 t/ha) while at Vagarai SSNM gave higher yields. After three years of experimentation in maize-wheat-mungbean system; the adoption of conservation agriculture practices i.e. permanent raised beds (PB) at Dholi and flat zero tillage (ZT) at Banswara was found superior in enhancing system productivity over conventional tillage (CT) while CT was found superior over CA practices in heavy soils at Pantnagar. In maize-chickpea cropping system, zero tillage resulted in significantly higher crops yield after three years and site specific nutrient management (SSNM) gave higher yield over farmer's fertilization practices (FFP) and RDF at Banswara. The SSNM also resulted in significantly higher yields in maize-wheat-mungbean system at Pantnagar and Banswara over FFP, while at Dholi; FFP gave significantly higher yields over RDF and SSNM. The significantly highest (10.2 t/ha) productivity of maize-wheat system was recorded with 100%RDF + FYM@5 t/ha. The higher system productivity was found with higher planting density of maize in rotation with wheat at Pantnagar, while STCR based nutrient management gave higher yields over SSNM and RDF.

Table 1: Performance of pre-release late maturity genotypes under varying planting density and nutrient levels in different locations.

Nutrient levels	Plant Density	Genotypes	Grain yield (kg/ha)				Stover yield (kg/ha)		
			Arbhavi	Karimnagar	Ludhiana	Vagarai	Arbhavi	Kolhapur	Vagarai
200:65:80	60x20 cm (Normal)	X35C537	9918	7703	9326	8991	9375	20208	8613
		Ivori	6809	7691	8903	7187	7222	16958	6905
		KMH 2589	7482	7552	7521	6380	8194	18542	6899
		P3533	8978	7870	8479	9163	8681	19042	8001
		Bisco X 6573	7854	7380	7569	7866	8681	18000	7290
		JH 270	8017	7905	7681	5434	13611	18000	5371
		DKC 9120	9598	7617	9201	5918	7153	14917	6682
		PMH 189	8747	7991	8264	7226	8611	15167	7683
		PMH 2277	8386	8113	7569	8630	7083	15042	9072
		IL 8212	10606	8514	8111	5979	9792	16542	6850
		IL 8534	9790	8101	8639	7865	9236	17208	8735
		Seedtech 2324-C	8247	8015	7896	7327	8264	14583	6680
		Bio9681-C	6175	6865	6028	6413	5417	14583	5785
		Buland-C	6854	8299	9972	7250	6250	9833	7155
	50x20 cm (High)	X35C537	11725	7177	10097	7690	9722	15125	8113
		Ivori	7423	7182	9125	8289	8681	14667	8549
		KMH 2589	8238	6956	9333	8244	8125	16417	8976
		P3533	9790	7833	8750	9114	9167	18208	9070
		Bisco X 6573	8933	8124	8653	8198	9722	16333	8059
		JH 270	9328	8051	9326	7737	15278	17042	8147
		DKC 9120	10745	8268	9313	8691	9167	14083	10942
		PMH 189	9378	8084	9181	8926	8750	19042	10062
		PMH 2277	8312	8406	8507	8254	9375	16375	9197
		IL 8212	11779	8524	11472	8341	9653	18458	7588
		IL 8534	11072	8098	11403	8305	11250	17875	7206
		Seedtech 2324-C	8271	7427	9028	7680	7847	14917	7231
		Bio9681-C	6437	7949	6688	8638	6528	16125	9428
		Buland-C	6862	7605	9993	8588	7708	17792	9658
250:80:100	60x20 cm (Normal)	X35C537	12995	8632	9417	8855	10833	18542	9003
		Ivori	8500	8869	9250	9913	9500	19125	9056
		KMH 2589	9993	8234	8097	10677	10333	16917	10193
		P3533	13180	8378	9153	10509	9917	15667	12253
		Bisco X 6573	9562	32150	8417	9128	14583	16958	9833
		JH 270	10599	8746	8660	9759	18167	15667	9124
		DKC 9120	13844	8343	9472	9055	11333	12000	8852
		PMH 189	10803	8368	8750	9764	11583	16917	10856
		PMH 2277	10121	8682	7979	9852	10417	13625	10062
		IL 8212	12327	9123	8174	10192	9583	15208	12227
		IL 8534	13267	8264	9174	8979	14667	14333	9034
		Seedtech 2324-C	9825	8203	8403	9552	9667	13500	9618
		Bio9681-C	9375	7144	6306	9037	6833	16458	10340
		Buland-C	9208	8707	10201	8179	9583	15500	9648

Contd…..

Nutrient levels	Plant Density	Genotypes	Grain yield (kg/ha)				Stover yield (kg/ha)		
			Arbhavi	Karimnagar	Ludhiana	Vagarai	Arbhavi	Kolhapur	Vagarai
250:80:100	50x20 cm (High)	X35C537	12722	8375	10306	9512	10917	18125	10361
		Ivori	8792	8948	9514	10830	9000	21375	10805
		KMH 2589	10295	8061	9354	9254	8792	17108	9368
		P3533	14292	8705	9576	8765	13750	15750	9462
		Bisco X 6573	9972	8276	9097	10243	12083	16000	11621
		JH 270	10311	8301	9451	9947	19000	15875	11148
		DKC 9120	12457	8241	9646	9354	10750	15125	8458
		PMH 189	10894	8405	9354	10089	10000	22458	10720
		PMH 2277	11607	8573	8563	9012	9750	13667	9832
		IL 8212	14404	8362	11556	10113	13583	16708	11553
		IL 8534	12529	7971	11507	8692	11750	16608	8874
		Seedtech 2324-C	10780	7992	9368	8189	10167	14792	8377
		Bio9681-C	10050	7975	6993	10353	6750	17333	10341
		Buland-C	10630	8083	10278	8116	9667	16042	8295
Mean of location			9983.7	8525.2	8965.0	8647.2	10026.8	16401.2	8986.8
200:65:80			8777	7832	8787	7797	8876	16467	7998
250:80:100			11190	9218	9143	9497	11177	16335	9975
CD at 5%			1710.7	NS	NS	693.0	1374.8	NS	776.20
CV (%)			25.8	59.0	13.0	12.1	20.7	4.75	13.01
60x20 cm (Normal)			9681	8981	8450	8396	9806	16037	8636
50x20 cm (High)			10287	8070	9480	8899	10248	16765	9337
CD at 5%			NS	NS	110.0	419.8	NS	390.4	162.50
CV (%)			18.2	64.5	2.9	11.3	17.7	5.56	4.22
X35C537			11840	7972	9786	8762	10212	18000	9022
Ivori			7881	8173	9198	9055	8601	18031	8829
KMH 2589			9002	7701	8576	8639	8861	17246	8859
P3533			11560	8196	8990	9388	10378	17167	9696
Bisco X 6573			9080	13982	8434	8859	11267	16823	9201
JH 270			9564	8251	8780	8219	16514	16646	8447
DKC 9120			11661	8117	9408	8255	9601	14031	8734
PMH 189			9956	8212	8887	9001	9736	18396	9830
PMH 2277			9606	8443	8155	8937	9156	14677	9541
IL 8212			12279	8631	9828	8656	10653	16729	9555
IL 8534			11664	8109	10181	8460	11726	16506	8462
Seedtech 2324-C			9281	7909	8674	8187	8986	14448	7977
Bio9681-C			8009	7483	6503	8610	6382	16125	8974
Buland-C			8389	8173	10111	8033	8302	14792	8689
CD at 5%			939.9	NS	365.4	792.8	998.5	1470.7	NS
CV (%)			11.6	66.1	5.0	11.3	12.3	11.08	16.29

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Nutrient levels	Plant Density	Genotypes	Plants ('000/ha)				Test weight (g)		
			Arbhavi	Kolhapur	Ludhiana	Vagarai	Karimnagar	Kolhapur	Vagarai
200:65:80	60x20 cm (Normal)	X35C537	72.2	76.4	81.3	63.6	276.0	427.0	363.3
		Ivori	64.9	72.8	81.3	58.6	278.7	416.7	346.7
		KMH 2589	63.2	74.7	79.9	55.6	268.0	395.0	340.0
		P3533	65.3	76.7	80.6	61.1	278.7	365.7	366.7
		Bisco X 6573	62.8	79.4	81.3	59.9	265.3	346.0	356.7
		JH 270	60.1	63.6	82.6	50.0	264.0	339.0	320.0
		DKC 9120	70.1	69.4	79.9	48.1	288.0	335.7	330.0
		PMH 189	69.4	67.2	78.5	58.0	278.7	355.3	346.7
		PMH 2277	64.2	63.6	78.5	58.6	274.7	377.0	363.3
		IL 8212	67.0	70.8	81.3	52.5	264.0	349.7	326.7
		IL 8534	68.4	70.3	79.9	56.8	273.3	361.0	353.3
		Seedtech 2324-C	66.7	68.9	81.3	58.0	277.3	402.3	353.3
		Bio9681-C	56.9	59.4	79.9	51.2	273.3	355.0	343.3
		Buland-C	70.8	74.7	77.1	55.6	256.0	325.0	350.0
	50x20 cm (High)	X35C537	63.2	75.8	104.2	61.7	281.3	360.0	353.3
		Ivori	67.7	82.8	100.0	64.2	273.3	362.7	363.3
		KMH 2589	67.4	81.1	100.7	58.6	245.3	358.7	363.3
		P3533	71.9	84.2	101.4	66.7	285.3	368.0	370.0
		Bisco X 6573	61.1	71.7	99.3	67.9	257.3	353.0	360.0
		JH 270	66.0	71.7	100.7	58.0	261.3	385.0	360.0
		DKC 9120	65.3	87.5	102.8	59.3	232.0	359.3	363.3
		PMH 189	67.4	82.5	100.7	53.1	292.0	384.0	363.3
		PMH 2277	63.2	73.3	103.5	58.6	288.0	415.0	360.0
		IL 8212	64.6	78.3	106.3	64.2	276.0	440.0	356.7
		IL 8534	66.7	80.0	104.2	64.8	268.0	407.3	360.0
		Seedtech 2324-C	65.3	72.8	105.6	58.0	268.0	410.3	346.7
		Bio9681-C	52.8	74.2	104.2	54.9	265.3	394.7	353.3
		Buland-C	71.5	79.7	104.2	57.4	274.7	385.0	353.3
250:80:100	60x20 cm (Normal)	X35C537	93.8	66.1	80.6	75.6	282.7	307.0	363.3
		Ivori	90.8	65.3	80.6	75.6	297.3	324.0	370.0
		KMH 2589	76.7	73.3	82.6	74.1	292.0	346.0	380.0
		P3533	72.1	76.7	81.9	74.1	282.7	308.0	380.0
		Bisco X 6573	65.8	62.2	79.2	78.5	273.3	319.0	363.3
		JH 270	80.4	68.3	81.3	72.6	306.7	344.0	373.3
		DKC 9120	86.3	66.9	81.3	73.3	317.3	363.0	366.7
		PMH 189	73.3	74.2	81.3	68.1	288.0	306.0	370.0
		PMH 2277	70.8	71.1	79.9	67.4	304.0	324.0	366.7
		IL 8212	70.8	69.4	81.3	74.1	297.3	328.7	376.7
		IL 8534	86.7	65.6	79.2	70.4	308.0	357.0	360.0
		Seedtech 2324-C	83.8	70.8	80.6	83.0	280.0	379.0	270.0
		Bio9681-C	69.6	71.1	78.5	65.2	350.7	404.0	363.3
		Buland-C	75.0	65.8	81.3	67.4	304.0	392.3	353.3

Contd…..

Nutrient levels	Plant Density	Genotypes	Plants ('000/ha)				Test weight (g)		
			Arbhavi	Kolhapur	Ludhiana	Vagarai	Karimnagar	Kolhapur	Vagarai
250:80:100	50x20 cm (High)	X35C537	87.9	75.0	102.8	77.0	282.7	322.0	370.0
		Ivori	83.3	87.8	100.7	70.4	289.3	309.0	386.7
		KMH 2589	76.7	80.8	102.8	71.9	282.7	400.0	366.7
		P3533	74.6	82.2	104.2	68.9	302.7	415.0	360.0
		Bisco X 6573	69.6	76.7	102.8	75.6	322.7	345.7	376.7
		JH 270	80.4	78.6	105.6	85.2	302.7	325.0	373.3
		DKC 9120	87.5	85.6	104.2	79.3	285.3	345.0	370.0
		PMH 189	86.3	84.7	102.1	60.7	300.0	380.0	376.7
		PMH 2277	87.1	75.0	102.8	65.2	297.3	401.7	366.7
		IL 8212	79.6	71.9	104.2	71.1	297.3	416.0	376.7
		IL 8534	78.3	78.1	104.2	71.1	298.7	328.0	360.0
		Seedtech 2324-C	75.0	72.5	101.4	65.9	290.7	360.0	356.7
		Bio9681-C	66.7	74.2	102.1	66.7	277.3	350.7	380.0
		Buland-C	76.3	82.5	104.2	73.3	296.0	364.7	360.0
Mean of location			72.2	74.2	91.7	65.3	283.8	364.3	359.3
200:65:80			65.6	74.4	91.4	58.4	270.9	376.2	353.1
250:80:100			78.8	74.0	91.8	72.2	296.8	352.3	365.6
CD at 5%			3.4	NS	NS	2.23	NS	NS	10.76
CV (%)			7.2	7.78	6.3	5.13	14.9	29.35	4.51
60x20 cm (Normal)			72.1	69.8	80.4	64.5	285.7	355.4	354.2
50x20 cm (High)			72.3	78.6	102.9	66.1	281.9	373.1	364.5
CD at 5%			NS	2.44	0.98	NS	NS	3.42	9.61
CV (%)			10.3	7.69	2.5	13.87	12.8	2.19	6.24
X35C537			79.3	73.3	92.2	69.5	280.7	354.0	362.5
Ivori			76.7	77.2	90.6	67.2	284.7	353.1	366.7
KMH 2589			71.0	77.5	91.5	65.0	272.0	374.9	362.5
P3533			71.0	79.9	92.0	67.7	287.3	364.2	369.2
Bisco X 6573			64.8	72.5	90.6	70.5	279.7	340.9	364.2
JH 270			71.7	70.6	92.5	66.5	283.7	348.3	356.7
DKC 9120			77.3	77.4	92.0	65.0	280.7	350.8	357.5
PMH 189			74.1	77.2	90.6	60.0	289.7	356.3	364.2
PMH 2277			71.3	70.8	91.2	62.5	291.0	379.4	364.2
IL 8212			70.5	72.6	93.2	65.5	283.7	383.6	359.2
IL 8534			75.0	73.5	91.8	65.8	287.0	363.3	358.3
Seedtech 2324-C			72.7	71.3	92.2	66.2	279.0	387.9	331.7
Bio9681-C			61.5	69.7	91.2	59.5	291.7	376.1	360.0
Buland-C			73.4	75.7	91.7	63.4	282.7	366.8	354.2
CD at 5%			5.8	4.17	NS	5.19	NS	12.40	NS
CV (%)			10.0	6.93	2.9	9.82	12.8	4.21	7.67

Contd…..

Nutrient levels	Plant Density	Genotypes	Cobs ('000/ha)				Net return (Rs/ha)		BC ratio	
			Arbhavi	Kolhapur	Ludhiana	Vagarai	Arbhavi	Ludhiana	Arbhavi	Ludhiana
200:65:80	60x20 cm (Normal)	X35C537	70.8	76.9	84.0	55.6	67650	66715	3.14	1.20
		Ivori	58.7	73.3	84.0	52.5	36517	61166	2.16	1.10
		KMH 2589	60.4	77.2	82.6	50.0	43250	43063	2.37	0.78
		P3533	65.6	78.1	82.6	58.0	58217	55617	2.85	1.00
		Bisco X 6573	58.0	82.8	83.3	56.2	46983	43700	2.49	0.79
		JH 270	72.2	69.7	85.4	46.3	48617	45155	2.54	0.81
		DKC 9120	66.0	78.1	83.3	41.4	64450	65078	3.04	1.17
		PMH 189	67.7	71.9	82.6	52.5	55917	52797	2.77	0.95
		PMH 2277	59.7	68.3	83.3	50.6	52283	43700	2.66	0.79
		IL 8212	70.5	71.9	84.7	46.3	74517	50795	3.36	0.92
		IL 8534	69.1	76.7	83.3	51.2	66350	57709	3.10	1.04
		Seedtech 2324-C	62.2	70.0	80.6	54.3	50917	47975	2.61	0.87
		Bio9681-C	53.1	66.7	79.2	47.5	30183	23504	1.96	0.42
		Buland-C	67.4	79.2	76.4	49.4	37017	75176	2.17	1.36
	50x20 cm (High)	X35C537	64.6	78.6	103.5	57.4	83733	75665	3.50	1.34
		Ivori	61.5	84.4	99.3	59.3	40733	62929	2.22	1.11
		KMH 2589	64.6	83.6	100.0	54.9	48867	65658	2.46	1.16
		P3533	72.9	85.6	100.7	62.3	64400	58017	2.92	1.02
		Bisco X 6573	54.2	79.2	98.6	62.3	55833	56743	2.67	1.00
		JH 270	69.8	79.2	100.0	54.9	59767	65567	2.78	1.16
		DKC 9120	67.4	88.9	102.1	54.9	73967	65386	3.21	1.16
		PMH 189	63.2	83.9	100.0	48.1	60267	63657	2.80	1.12
		PMH 2277	58.3	74.7	102.8	53.7	49600	54833	2.48	0.97
		IL 8212	67.4	79.2	105.6	61.7	84300	93678	3.52	1.65
		IL 8534	72.6	81.1	103.5	59.9	77200	92768	3.30	1.64
		Seedtech 2324-C	62.2	73.6	104.9	56.2	49233	61656	2.47	1.09
		Bio9681-C	52.8	76.1	103.5	50.0	30900	30998	1.92	0.55
		Buland-C	69.1	80.3	103.5	53.1	35133	74301	2.05	1.31
250:80:100	60x20 cm (Normal)	X35C537	90.8	66.9	82.6	71.9	98417	63060	4.12	1.05
		Ivori	83.8	67.2	81.3	68.9	53450	60877	2.69	1.01
		KMH 2589	72.9	75.8	83.3	68.1	68417	45775	3.17	0.76
		P3533	75.8	78.9	82.6	68.9	100250	59603	4.18	0.99
		Bisco X 6573	69.2	64.4	79.9	71.9	64050	49960	3.03	0.83
		JH 270	82.1	70.3	81.9	65.9	74417	53144	3.36	0.88
		DKC 9120	82.1	69.4	81.9	68.1	106883	63788	4.39	1.06
		PMH 189	75.4	76.9	81.9	60.0	76483	54327	3.42	0.90
		PMH 2277	70.0	72.5	81.9	63.7	69650	44229	3.21	0.73
		IL 8212	80.0	71.1	81.9	68.1	91683	46776	3.91	0.78
		IL 8534	87.9	68.3	81.3	67.4	101117	59876	4.20	0.99
		Seedtech 2324-C	70.8	73.6	81.9	77.8	66683	49778	3.11	0.83
		Bio9681-C	69.6	73.1	78.5	62.2	62183	22305	2.97	0.37
		Buland-C	75.0	69.2	82.6	63.0	60517	73340	2.92	1.22

Contd…..

Nutrient levels	Plant Density	Genotypes	Cobs ('000/ha)				Net return (Rs/ha)		BC ratio	
			Arbhavi	Kolhapur	Ludhiana	Vagarai	Arbhavi	Ludhiana	Arbhavi	Ludhiana
250:80:100	50x20 cm (High)	X35C537	80.8	78.3	102.1	72.6	93733	73558	3.80	1.20
		Ivori	76.7	89.4	99.3	64.4	54433	63187	2.62	1.03
		KMH 2589	72.5	82.2	101.4	67.4	69433	61094	3.07	0.99
		P3533	75.0	83.1	102.8	63.0	109433	64005	4.27	1.04
		Bisco X 6573	64.2	77.8	101.4	68.9	66200	57728	2.98	0.94
		JH 270	90.8	79.7	104.2	80.7	69633	62368	3.08	1.02
		DKC 9120	87.5	88.1	102.8	76.3	91100	64915	3.72	1.06
		PMH 189	75.8	85.6	100.7	55.6	75433	61094	3.25	0.99
		PMH 2277	81.7	77.8	101.4	59.3	82567	50724	3.46	0.83
		IL 8212	92.5	77.5	102.8	66.7	110533	89933	4.30	1.46
		IL 8534	82.1	81.1	102.8	64.4	91800	89296	3.74	1.45
		Seedtech 2324-C	74.2	77.5	100.0	61.5	74300	61276	3.22	1.00
		Bio9681-C	66.7	75.6	100.7	60.7	67000	30164	3.00	0.49
		Buland-C	72.9	83.6	102.8	67.4	72800	73194	3.17	1.19
Mean of location			71.1	76.9	92.0	60.3	67310.7	58989.0	3.07	1.01
200:65:80			64.4	77.5	92.3	53.6	55243	59072	2.70	1.05
250:80:100			77.8	76.3	91.7	67.0	79379	58906	3.44	0.97
CD at 5%			6.4	NS	NS	0.74	17098.2	NS	0.51	NS
CV (%)			13.6	11.09	5.6	1.85	17.2	25.8	25.16	25.69
60x20 cm (Normal)			71.0	72.8	82.3	59.2	65252	52821	3.07	0.91
50x20 cm (High)			71.2	80.9	100.4	61.4	69369	65157	3.07	1.11
CD at 5%			NS	2.57	2.0	NS	NS	1441.0	NS	0.03
CV (%)			15.2	7.81	5.0	12.22	27.0	5.7	18.16	6.04
X35C537			76.8	75.2	93.1	64.4	85883	69750	3.64	1.20
Ivori			70.1	78.6	91.0	61.3	46283	62040	2.42	1.06
KMH 2589			67.6	79.7	91.8	60.1	57492	53898	2.77	0.92
P3533			72.3	81.4	92.2	63.1	83075	59311	3.55	1.01
Bisco X 6573			61.4	76.0	90.8	64.8	58267	52033	2.79	0.89
JH 270			78.7	74.7	92.9	62.0	63108	56559	2.94	0.97
DKC 9120			75.7	81.1	92.5	60.2	84100	64792	3.59	1.11
PMH 189			70.5	79.6	91.3	54.0	67025	57969	3.06	0.99
PMH 2277			67.4	73.3	92.4	56.8	63525	48371	2.95	0.83
IL 8212			77.6	74.9	93.8	60.7	90258	70295	3.77	1.20
IL 8534			77.9	76.8	92.7	60.7	84117	74912	3.59	1.28
Seedtech 2324-C			67.3	73.7	91.8	62.4	60283	55171	2.85	0.94
Bio9681-C			60.5	72.9	90.5	55.1	47567	26743	2.46	0.46
Buland-C			71.1	78.1	91.3	58.2	51367	74003	2.58	1.27
CD at 5%			5.3	4.10	NS	5.20	9394.9	4787.2	0.29	0.08
CV (%)			9.3	6.59	3.3	10.65	38.3	10.0	11.60	10.11

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Nutrient levels	Plant Density	Genotypes	Plant height (cm)				
			Arbhavi	Karimnagar	Kolhapur	Ludhiana	Vagarai
200:65:80	60x20 cm (Normal)	X35C537	203.7	244.8	183.0	163.7	233.9
		Ivori	187.3	238.3	188.0	151.7	239.3
		KMH 2589	195.0	246.2	193.3	161.3	232.8
		P3533	209.7	269.8	207.0	171.0	242.9
		Bisco X 6573	190.3	257.3	193.0	166.0	232.8
		JH 270	201.7	264.2	202.0	172.7	235.2
		DKC 9120	193.7	247.2	193.3	161.7	235.3
		PMH 189	194.7	245.0	197.3	177.3	226.1
		PMH 2277	195.3	230.3	204.3	172.3	240.3
		IL 8212	216.7	254.7	208.0	177.0	237.5
		IL 8534	211.3	248.3	211.0	180.7	228.8
		Seedtech 2324-C	181.3	245.0	187.3	161.7	234.1
		Bio9681-C	204.7	243.0	195.7	179.7	229.8
		Buland-C	207.7	250.3	175.7	170.0	223.6
	50x20 cm (High)	X35C537	228.7	255.0	183.0	164.0	216.7
		Ivori	186.7	270.2	188.0	152.3	226.8
		KMH 2589	196.0	255.3	195.3	163.7	218.1
		P3533	203.7	275.5	207.0	174.0	226.3
		Bisco X 6573	207.7	238.5	193.0	168.3	208.3
		JH 270	214.3	243.8	202.0	174.0	221.1
		DKC 9120	205.0	246.2	194.7	163.3	234.7
		PMH 189	198.7	254.7	197.3	180.0	227.1
		PMH 2277	208.3	242.7	204.3	175.7	243.0
		IL 8212	201.0	252.3	206.0	178.3	236.7
		IL 8534	217.3	254.3	207.0	184.3	226.1
		Seedtech 2324-C	178.0	254.3	186.0	163.3	231.1
		Bio9681-C	208.3	249.3	195.0	187.7	219.4
		Buland-C	206.0	236.7	183.0	173.0	211.1
250:80:100	60x20 cm (Normal)	X35C537	211.0	273.2	175.0	167.7	223.1
		Ivori	185.3	265.8	208.0	155.3	207.1
		KMH 2589	205.0	270.2	178.0	162.7	204.3
		P3533	217.7	261.8	208.0	172.0	229.6
		Bisco X 6573	191.7	265.0	205.3	167.7	224.5
		JH 270	223.0	269.7	202.3	174.3	210.1
		DKC 9120	202.3	258.5	191.0	165.0	197.5
		PMH 189	191.3	261.5	196.0	178.3	229.9
		PMH 2277	188.0	268.3	197.7	175.7	220.6
		IL 8212	207.7	271.5	194.7	178.0	226.5
		IL 8534	212.7	264.7	192.7	181.3	216.6
		Seedtech 2324-C	176.0	263.3	194.3	165.0	201.3
		Bio9681-C	203.3	251.8	186.0	184.3	218.1
		Buland-C	214.7	253.2	208.0	174.3	212.3

Contd…..

Nutrient levels	Plant Density	Genotypes	Plant height (cm)				
			Arbhavi	Karimnagar	Kolhapur	Ludhiana	Vagarai
250:80:100	50x20 cm (High)	X35C537	216.0	262.2	183.0	166.7	204.1
		Ivori	195.7	279.8	184.3	155.0	202.5
		KMH 2589	201.0	271.8	196.0	164.7	232.5
		P3533	207.0	277.2	211.3	176.3	218.3
		Bisco X 6573	203.3	278.7	195.0	169.3	221.6
		JH 270	215.0	275.3	201.0	176.0	228.1
		DKC 9120	201.3	261.7	187.0	166.0	220.7
		PMH 189	212.7	262.7	194.3	181.7	211.3
		PMH 2277	192.7	268.5	204.0	177.7	200.2
		IL 8212	214.7	253.0	202.0	179.3	217.6
		IL 8534	217.7	268.8	210.0	185.7	206.9
		Seedtech 2324-C	181.3	257.5	192.3	165.7	223.2
		Bio9681-C	208.0	254.4	180.0	189.7	217.4
		Buland-C	207.0	267.5	192.0	174.3	211.2
Mean of location			202.8	258.1	195.5	171.4	222.4
200:65:80			201.9	250.5	195.7	170.3	229.3
250:80:100			203.7	265.6	195.3	172.5	215.6
CD at 5%			NS	10.9	NS	NS	NS
CV (%)			16.6	6.4	0.51	15.0	17.28
60x20 cm (Normal)			200.8	256.5	195.6	170.3	224.8
50x20 cm (High)			204.8	259.6	195.5	172.5	220.1
CD at 5%			NS	NS	NS	NS	NS
CV (%)			14.6	5.9	3.50	6.6	13.14
X35C537			214.8	258.8	181.0	165.5	219.5
Ivori			188.8	263.5	192.1	153.6	218.9
KMH 2589			199.3	260.9	190.7	163.1	221.9
P3533			209.5	271.1	208.3	173.3	229.3
Bisco X 6573			198.3	259.9	196.6	167.8	221.8
JH 270			213.5	263.3	201.8	174.3	223.6
DKC 9120			200.6	253.4	191.5	164.0	222.0
PMH 189			199.3	256.0	196.3	179.3	223.6
PMH 2277			196.1	252.5	202.6	175.3	226.0
IL 8212			210.0	257.9	202.7	178.2	229.6
IL 8534			214.8	259.0	205.2	183.0	219.6
Seedtech 2324-C			179.2	255.0	190.0	163.9	222.4
Bio9681-C			206.1	249.6	189.2	185.3	221.2
Buland-C			208.8	251.9	189.7	172.9	214.6
CD at 5%			8.1	NS	3.91	4.4	NS
CV (%)			4.9	7.0	2.47	3.1	6.52

Contd…..

Nutrient levels	Plant Density	Genotypes	Days to 50% silking					Days to maturity
			Arbhavi	Karimnagar	Kolhapur	Ludhiana	Vagarai	Kolhapur
200:65:80	60x20 cm (Normal)	X35C537	77.0	80.7	58.0	77.7	57.0	100.0
		Ivori	80.3	80.0	58.0	78.3	56.0	100.0
		KMH 2589	80.0	78.7	59.0	80.7	56.7	101.0
		P3533	79.0	80.3	60.0	79.0	56.3	102.0
		Bisco X 6573	77.7	81.3	62.0	78.7	55.3	104.0
		JH 270	86.0	81.0	70.0	81.3	60.0	113.0
		DKC 9120	81.0	79.7	61.0	79.0	56.3	103.0
		PMH 189	81.0	79.3	59.0	81.7	57.0	101.0
		PMH 2277	79.0	80.0	59.0	81.3	57.0	101.0
		IL 8212	79.7	79.0	58.0	80.3	57.0	100.0
		IL 8534	79.3	79.0	61.0	80.7	57.0	103.0
		Seedtech 2324-C	78.3	79.7	60.0	80.7	56.0	102.0
		Bio9681-C	80.7	79.7	71.0	81.0	58.0	114.0
		Buland-C	83.7	82.7	72.0	81.3	58.0	115.0
	50x20 cm (High)	X35C537	75.0	80.3	58.0	82.0	57.0	100.0
		Ivori	79.3	79.3	58.0	83.3	56.0	100.0
		KMH 2589	79.7	84.3	59.0	83.3	56.7	101.0
		P3533	80.0	78.0	60.0	84.7	56.7	102.0
		Bisco X 6573	77.3	81.3	62.0	83.3	56.7	104.0
		JH 270	83.3	79.7	70.0	86.7	58.3	113.0
		DKC 9120	80.0	80.3	61.0	84.0	56.0	103.0
		PMH 189	79.3	79.3	59.0	82.0	56.3	102.0
		PMH 2277	80.0	81.3	59.0	82.3	56.7	102.0
		IL 8212	79.0	81.3	58.0	84.0	57.0	100.0
		IL 8534	79.3	81.0	61.0	83.3	57.0	103.0
		Seedtech 2324-C	79.3	80.7	60.0	83.7	56.7	102.0
		Bio9681-C	79.7	79.3	71.0	82.7	58.3	114.0
		Buland-C	83.0	78.7	72.0	84.7	58.0	115.0
250:80:100	60x20 cm (Normal)	X35C537	77.3	78.0	58.0	77.3	56.3	100.0
		Ivori	79.7	77.3	58.0	77.0	56.7	100.0
		KMH 2589	79.3	78.3	59.0	79.7	55.3	101.0
		P3533	78.7	78.7	60.0	78.3	56.7	102.0
		Bisco X 6573	77.0	78.7	62.0	78.0	56.0	104.0
		JH 270	86.0	76.3	70.0	81.0	60.0	113.0
		DKC 9120	79.7	76.3	61.0	78.3	56.7	103.0
		PMH 189	80.3	77.3	59.0	80.7	55.3	101.0
		PMH 2277	79.3	79.0	59.0	79.3	55.7	101.0
		IL 8212	78.7	76.7	58.0	79.0	55.7	100.0
		IL 8534	79.3	77.3	61.0	79.0	56.0	103.0
		Seedtech 2324-C	78.3	78.7	60.0	79.3	55.3	102.0
		Bio9681-C	80.3	75.7	71.0	80.3	58.7	114.0
		Buland-C	82.0	79.0	72.0	80.3	57.3	115.0

Contd…..

Nutrient levels	Plant Density	Genotypes	Days to 50% silking					Days to maturity
			Arbhavi	Karimnagar	Kolhapur	Ludhiana	Vagarai	Kolhapur
	50x20 cm (High)	X35C537	76.3	79.7	58.0	80.7	55.7	100.0
		Ivori	79.0	77.3	58.0	82.3	56.0	100.0
		KMH 2589	79.0	78.7	59.0	82.7	55.0	101.0
		P3533	79.0	76.7	60.0	82.7	57.3	102.0
		Bisco X 6573	76.0	81.3	62.0	81.7	55.0	104.0
		JH 270	85.3	78.0	70.0	85.7	59.3	113.0
		DKC 9120	79.3	79.0	61.0	81.3	56.0	103.0
		PMH 189	80.0	79.0	59.0	80.3	56.7	102.0
		PMH 2277	79.0	78.7	59.0	80.7	55.0	102.0
		IL 8212	78.3	79.7	58.0	81.3	55.7	100.0
		IL 8534	78.3	78.0	61.0	82.0	55.7	103.0
		Seedtech 2324-C	77.3	79.7	60.0	82.3	56.0	102.0
		Bio9681-C	81.3	77.3	71.0	81.7	57.0	114.0
		Buland-C	82.7	78.3	72.0	83.3	57.3	115.0
Mean of location			79.7	79.2	62.0	81.2	56.7	104.3
200:65:80			79.9	80.2	62.0	81.9	57.0	104.3
250:80:100			79.5	78.2	62.0	80.6	56.4	104.3
CD at 5%			NS	1.4	-	NS	NS	-
CV (%)			1.8	2.6	-	3.2	4.56	-
60x20 cm (Normal)			80.0	78.9	62.0	79.6	56.8	104.2
50x20 cm (High)			79.5	79.5	62.0	82.8	56.6	104.6
CD at 5%			NS	NS	-	0.83	NS	-
CV (%)			2.3	2.6	-	2.4	1.09	-
X35C537			76.4	79.7	58.0	79.4	56.5	100.0
Ivori			79.6	78.5	58.0	80.3	56.2	100.0
KMH 2589			79.5	80.0	59.0	81.6	55.9	101.0
P3533			79.2	78.4	60.0	81.2	56.8	102.0
Bisco X 6573			77.0	80.7	62.0	80.4	55.8	104.0
JH 270			85.2	78.8	70.0	83.7	59.4	113.0
DKC 9120			80.0	78.8	61.0	80.7	56.3	103.0
PMH 189			80.2	78.8	59.0	81.2	56.3	101.5
PMH 2277			79.3	79.8	59.0	80.9	56.1	101.5
IL 8212			78.9	79.2	58.0	81.2	56.3	100.0
IL 8534			79.1	78.8	61.0	81.3	56.4	103.0
Seedtech 2324-C			78.3	79.7	60.0	81.5	56.0	102.0
Bio9681-C			80.5	78.0	71.0	81.4	58.0	114.0
Buland-C			82.8	79.7	72.0	82.4	57.7	115.0
CD at 5%			1.1	NS	-	1.71	0.83	-
CV (%)			1.8	3.0	-	2.6	1.80	-

Contd…..

Nutrient levels	Plant Density	Genotypes	Gross Return (Rs./ha)	Cost of Cultivation (Rs./ha)	Net Return (Rs./ha)	BCR
			Vagarai			
200:65:80	60x20 cm (Normal)	X35C537	116884	65215	51669	1.79
		Ivori	93433	65215	28218	1.43
		KMH 2589	82945	65215	17730	1.27
		P3533	119123	65215	53908	1.83
		Bisco X 6573	102253	65215	37038	1.57
		JH 270	70636	65215	5421	1.08
		DKC 9120	76934	65215	11719	1.18
		PMH 189	93936	65215	28721	1.44
		PMH 2277	112190	65215	46975	1.72
		IL 8212	77728	65215	12513	1.19
		IL 8534	102245	65215	37030	1.57
		Seedtech 2324-C	95251	65215	30036	1.46
		Bio9681-C	83365	65215	18150	1.28
		Buland-C	94250	65215	29035	1.45
	50x20 cm (High)	X35C537	99965	67023	32942	1.49
		Ivori	107757	67023	40734	1.61
		KMH 2589	107174	67023	40151	1.60
		P3533	118481	67023	51458	1.77
		Bisco X 6573	106571	67023	39548	1.59
		JH 270	100582	67023	33559	1.50
		DKC 9120	112979	67023	45956	1.69
		PMH 189	116043	67023	49020	1.73
		PMH 2277	107296	67023	40273	1.60
		IL 8212	108435	67023	41412	1.62
		IL 8534	107961	67023	40938	1.61
		Seedtech 2324-C	99846	67023	32823	1.49
		Bio9681-C	112295	67023	45272	1.68
		Buland-C	111647	67023	44624	1.67
250:80:100	60x20 cm (Normal)	X35C537	115118	65215	49903	1.77
		Ivori	128871	65215	63656	1.98
		KMH 2589	138805	65215	73590	2.13
		P3533	136616	65215	71401	2.09
		Bisco X 6573	118663	65215	53448	1.82
		JH 270	126866	65215	61651	1.95
		DKC 9120	117721	65215	52506	1.81
		PMH 189	126929	65215	61714	1.95
		PMH 2277	128079	65215	62864	1.96
		IL 8212	132498	65215	67283	2.03
		IL 8534	116733	65215	51518	1.79
		Seedtech 2324-C	124171	65215	58956	1.90
		Bio9681-C	117484	65215	52269	1.80
		Buland-C	106332	65215	41117	1.63

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Nutrient levels	Plant Density	Genotypes	Gross Return (Rs./ha)	Cost of Cultivation (Rs./ha)	Net Return (Rs./ha)	BCR
			Vagarai			
	50x20 cm (High)	X35C537	123655	67023	56632	1.84
		Ivori	140794	67023	73771	2.10
		KMH 2589	120307	67023	53284	1.80
		P3533	113940	67023	46917	1.70
		Bisco X 6573	133162	67023	66139	1.99
		JH 270	129312	67023	62289	1.93
		DKC 9120	121603	67023	54580	1.81
		PMH 189	131162	67023	64139	1.96
		PMH 2277	117151	67023	50128	1.75
		IL 8212	131469	67023	64446	1.96
		IL 8534	112994	67023	45971	1.69
		Seedtech 2324-C	106454	67023	39431	1.59
		Bio9681-C	134585	67023	67562	2.01
		Buland-C	105508	67023	38485	1.57
Mean of location			112414	66119	46295	1.70

200:65:80	101365	66119	35246	1.53
250:80:100	123464	66119	57345	1.87

60x20 cm (Normal)	109145	62215	43930	1.67
50x20 cm (High)	115683	67023	48660	1.73

X35C537	113906	66119	47787	1.72
Ivori	117714	66119	51595	1.78
KMH 2589	112308	66119	46189	1.70
P3533	122040	66119	55921	1.85
Bisco X 6573	115162	66119	49043	1.74
JH 270	106849	66119	40730	1.61
DKC 9120	107309	66119	41190	1.62
PMH 189	117018	66119	50899	1.77
PMH 2277	116179	66119	50060	1.76
IL 8212	112533	66119	46414	1.70
IL 8534	109983	66119	43864	1.66
Seedtech 2324-C	106431	66119	40312	1.61
Bio9681-C	111932	66119	45813	1.69
Buland-C	104434	66119	38315	1.58

Table 2: Performance of pre-release late maturity genotype under varying planting density and nutrients levels in zone II.

Nutrient	Genotypes	Grain yield (kg/ha)			Stover yield (kg/ha)	Plants ('000/ha)		Cobs ('000/ha)	
		Delhi	Karnal	Pantnagar	Pantnagar	Karnal	Pantnagar	Delhi	Pantnagar
150:65:65	X35C537	10767	10633	7761	21453	62.9	63.2	70.0	63.2
	Ivori	8833	11193	8812	16154	60.8	65.8	67.8	65.8
	KMH 2589	8444	8943	7827	21068	62.3	61.5	67.8	61.5
	P3533	8845	9700	7829	19615	62.9	57.3	74.4	57.3
	Bisco X 6573	9178	8767	6479	16453	61.7	60.7	73.3	60.7
	JH 270	6378	9166	7534	21239	63.1	63.2	77.8	63.2
	DKC 9120	7833	10567	7541	16026	62.1	63.2	72.2	63.2
	PMH 189	7200	10492			64.0		46.7	
	PMH 2277	7678	11267	10043	17991	63.7	62.4	52.2	62.4
	IL 8212	8089	10300	8684	17692	61.6	62.4	75.6	62.4
	IL 8534	7311	9933	8402	18248	62.7	59.0	66.7	59.0
	Seedtech 2324-C	7222	10000	5994	17607	61.9	64.1	63.3	64.1
	Bio9681-C	3267	11053			60.9		24.4	
	Buland-C	6322	10333	6735	14744	62.2	58.1	63.3	58.1
200:80:80	X35C537	9289	11300	8526	23419	62.4	61.5	65.6	61.5
	Ivori	8733	11933	9812	22650	61.0	61.5	62.2	61.5
	KMH 2589	8611	9667	9684	17522	62.6	62.4	77.8	62.4
	P3533	7611	10398	8940	21496	62.1	57.3	68.9	57.3
	Bisco X 6573	7256	9251	7273	18119	63.8	63.2	63.3	63.2
	JH 270	8544	9700	8017	23222	63.6	56.4	80.0	56.4
	DKC 9120	8767	11300	7889	19188	64.0	59.0	68.9	59.0
	PMH 189	8611	11199			63.1		55.6	
	PMH 2277	8778	11667	10351	20470	63.3	59.0	53.3	59.0
	IL 8212	9964	10867	10008	20684	62.1	65.0	75.6	65.0
	IL 8534	8100	10700	9077	19872	61.9	61.5	72.2	61.5
	Seedtech 2324-C	6556	10931	9107	18034	62.6	58.1	63.3	58.1
	Bio9681-C	2956	11789			62.2		27.8	
	Buland-C	6122	11009	8397	16667	61.8	57.3	57.8	57.3
250:95:95	X35C537	8522	11633	9495	24744	63.8	60.7	64.4	60.7
	Ivori	9067	12371	10231	24444	64.4	58.1	68.9	58.1
	KMH 2589	10133	10200	11090	23120	63.7	64.1	73.3	64.1
	P3533	8300	10770	9906	23461	64.9	61.5	64.4	61.5
	Bisco X 6573	10422	9706	7761	20043	64.9	60.7	70.0	60.7
	JH 270	7722	10100	8239	24316	63.7	61.5	94.4	61.5
	DKC 9120	8844	11733	8430	24530	62.7	61.5	68.9	61.5
	PMH 189	8300	11567			63.6		51.1	
	PMH 2277	7056	12033	10769	21410	64.1	56.4	52.2	56.4
	IL 8212	8867	12199	10744	23675	63.1	60.7	66.7	60.7
	IL 8534	7878	11100	9581	20470	63.2	65.0	66.7	65.0
	Seedtech 2324-C	5400	11294	9237	18932	62.5	60.7	55.6	60.7
	Bio9681-C	4378	12167			62.6		37.8	
	Buland-C	6984	11287	8878	21453	62.6	62.4	66.7	62.4

Contd…..

Nutrient	Genotypes	Grain yield (kg/ha)			Stover yield (kg/ha)	Plants ('000/ha)		Cobs ('000/ha)	
		Delhi	Karnal	Pantnagar	Pantnagar	Karnal	Pantnagar	Delhi	Pantnagar
Location mean		7836.6	10767.1	8752.3	20284.2	62.8	61.0	64.0	61.0
C.D.(5%) AiBj-AiBk		1862.6	1028.7	1535.1	3736.8	3.2	7.7	11.4	7.7
C.D.(5%) AiBk-AjBk		2580.0	1028.8	1536.4	3934.8	3.3	8.0	12.5	8.0
F(5%)		s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
150:65:65		7669	10168	7803	18191	62.3	61.8	64.0	61.8
200:80:80		7850	10836	8923	20112	62.6	60.2	63.7	60.2
250:95:95		7991	11297	9530	22550	63.6	61.1	64.4	61.1
C.D. (5%) Ai-Aj		2093.0	286.6	465.2	1698.6	1.2	3.2	6.8	3.2
C.V. (%) Error A		23.2	4.4	8.1	12.8	3.1	8.0	9.3	8.0
F (5%)		n.s.	s	s	s	n.s.	n.s.	n.s.	n.s.
X35C537		9526	11189	8594	23205	63.0	61.8	66.7	61.8
Ivori		8878	11833	9618	21083	62.0	61.8	66.3	61.8
KMH 2589		9063	9603	9533	20570	62.9	62.7	73.0	62.7
P3533		8252	10289	8892	21524	63.3	58.7	69.3	58.7
Bisco X 6573		8952	9241	7171	18205	63.4	61.5	68.9	61.5
JH 270		7548	9655	7930	22926	63.4	60.4	84.1	60.4
DKC 9120		8481	11200	7953	19915	63.0	61.3	70.0	61.3
PMH 189		8037	11086	-	-	63.6	-	51.1	-
PMH 2277		7837	11656	10388	19957	63.7	59.3	52.6	59.3
IL 8212		8973	11122	9812	20684	62.3	62.7	72.6	62.7
IL 8534		7763	10578	9020	19530	62.6	61.8	68.5	61.8
Seedtech 2324-C		6393	10742	8112	18191	62.4	61.0	60.7	61.0
Bio9681-C		3533	11670	-	-	61.9	-	30.0	-
Buland-C		6476	10876	8004	17621	62.2	59.3	62.6	59.3
C.D. (5%) Bi-Bj		1075.4	593.9	886.3	2157.5	1.9	4.5	6.6	4.5
C.V. (%) ErrorB		11.7	5.9	10.8	11.3	3.2	7.8	8.8	7.8
F (5%)		s	s	s	s	n.s.	n.s.	s	n.s.

Contd…..

Nutrient	Genotypes	Plant height (cm)			Days to 50% silking		100 grain weight (g)	
		Delhi	Karnal	Pantnagar	Karnal	Pantnagar	Delhi	Pantnagar
150:65:65	X35C537	213.2	209.0	182.9	134.3	125.3	30.9	28.0
	Ivori	187.9	190.0	134.9	134.7	126.0	29.1	28.2
	KMH 2589	187.6	165.0	145.0	135.3	126.7	23.9	24.4
	P3533	199.2	195.0	175.9	139.0	128.3	25.5	28.2
	Bisco X 6573	205.6	200.0	172.9	139.0	125.0	28.0	28.3
	JH 270	214.9	190.0	162.5	142.3	125.7	20.1	22.5
	DKC 9120	206.8	175.0	155.7	139.0	126.3	19.2	26.5
	PMH 189	190.7	175.0		138.3		28.1	
	PMH 2277	185.3	195.0	153.1	138.3	128.3	23.4	31.9
	IL 8212	190.6	181.7	180.7	140.7	125.7	26.3	28.2
	IL 8534	209.3	190.0	185.8	139.0	126.3	22.9	21.4
	Seedtech 2324-C	172.3	178.3	141.1	138.3	126.0	28.0	30.5
	Bio9681-C	197.3	205.0		138.0		24.2	
	Buland-C	214.5	196.7	176.9	139.0	127.3	25.3	26.5
200:80:80	X35C537	199.9	213.5	188.2	132.7	125.7	30.6	29.6
	Ivori	188.5	193.5	139.3	134.7	126.0	29.4	29.0
	KMH 2589	187.8	168.5	157.6	135.3	126.0	22.9	25.0
	P3533	206.5	198.5	184.5	137.7	128.0	21.4	28.7
	Bisco X 6573	219.3	203.5	180.6	137.7	125.3	24.9	30.6
	JH 270	208.9	193.5	172.5	142.7	125.3	21.4	23.6
	DKC 9120	201.7	178.5	164.5	137.7	126.0	23.0	27.7
	PMH 189	195.1	178.5		137.7		29.1	
	PMH 2277	193.7	198.5	159.4	137.7	128.7	31.6	32.9
	IL 8212	214.4	185.2	187.5	140.3	125.3	28.1	30.9
	IL 8534	208.4	193.5	192.1	137.7	126.3	23.8	22.6
	Seedtech 2324-C	169.0	181.8	148.9	137.7	126.7	28.3	31.2
	Bio9681-C	195.6	208.5		137.3		29.3	
	Buland-C	202.8	200.2	183.1	137.7	127.0	25.0	27.7
250:95:95	X35C537	210.4	216.0	191.9	130.7	125.7	30.0	30.6
	Ivori	184.2	196.0	140.3	132.7	126.0	27.9	29.4
	KMH 2589	186.9	171.0	162.5	132.7	126.0	26.2	25.3
	P3533	213.6	201.0	189.0	135.7	128.0	24.4	29.0
	Bisco X 6573	209.4	206.0	181.7	135.7	125.7	32.7	31.3
	JH 270	221.9	196.0	176.3	140.7	125.0	21.8	24.4
	DKC 9120	210.6	181.0	169.2	135.7	126.3	22.5	28.0
	PMH 189	197.8	181.0		135.7		29.6	
	PMH 2277	194.0	201.0	163.3	135.7	128.3	28.7	33.1
	IL 8212	203.6	187.7	189.3	137.3	125.0	28.4	31.8
	IL 8534	201.7	196.0	196.2	135.7	126.0	24.6	23.1
	Seedtech 2324-C	166.3	184.3	152.5	135.7	126.0	30.2	31.7
	Bio9681-C	190.8	211.0		134.7		25.3	
	Buland-C	193.1	202.7	184.3	135.7	127.0	25.5	28.2

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Nutrient	Genotypes	Plant height (cm)			Days to 50% silking		100 grain weight (g)	
		Delhi	Karnal	Pantnagar	Karnal	Pantnagar	Delhi	Pantnagar
Location mean		198.8	192.2	170.1	137.0	126.3	26.2	28.1
C.D.(5%) AiBj-AiBk		15.3	9.9	4.5	0.9	1.1	5.4	1.7
C.D.(5%) AiBk-AjBk		15.4	9.8	4.9	1.3	1.1	6.4	1.8
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
150:65:65		198.2	189.0	163.9	138.2	126.4	25.3	27.1
200:80:80		199.4	192.5	171.5	137.5	126.4	26.3	28.3
250:95:95		198.9	195.0	174.7	135.3	126.3	27.0	28.8
C.D. (5%) Ai-Aj		5.3	2.3	2.5	1.0	0.2	4.2	0.8
C.V. (%) Error A		2.3	2.0	2.2	1.2	0.3	14.0	4.3
F (5%)		n.s.	s	s	s	n.s.	n.s.	s
X35C537		207.8	212.8	187.6	132.6	125.6	30.5	29.4
Ivori		186.9	193.2	138.2	134.0	126.0	28.8	28.9
KMH 2589		187.4	168.2	155.0	134.4	126.2	24.3	24.9
P3533		206.4	198.2	183.1	137.4	128.1	23.8	28.6
Bisco X 6573		211.4	203.2	178.4	137.4	125.3	28.5	30.1
JH 270		215.2	193.2	170.4	141.9	125.3	21.1	23.5
DKC 9120		206.4	178.2	163.1	137.4	126.2	21.6	27.4
PMH 189		194.5	178.2		137.2		28.9	
PMH 2277		191.0	198.2	158.6	137.2	128.4	27.9	32.6
IL 8212		202.9	184.8	185.8	139.4	125.3	27.6	30.3
IL 8534		206.5	193.2	191.4	137.4	126.2	23.8	22.4
Seedtech 2324-C		169.2	181.5	147.5	137.2	126.2	28.8	31.1
Bio9681-C		194.6	208.2		136.7		26.3	
Buland-C		203.5	199.8	181.5	137.4	127.1	25.3	27.5
C.D. (5%) Bi-Bj		8.8	5.7	2.6	0.5	0.7	3.1	1.0
C.V. (%) ErrorB		3.8	3.2	1.6	0.4	0.6	10.2	3.8
F (5%)		s	s	s	s	s	s	s

Contd…..

Nutrient	Genotypes	Gross profit (Rs/ha)	Net profit (Rs/ha)	BC ratio	
		Pantnagar	Pantnagar	Pantnagar	Karnal
150:65:65	X35C537	101665	59950	1.44	3.80
	Ivori	115437	73722	1.77	3.99
	KMH 2589	102532	60817	1.46	3.24
	P3533	102561	60846	1.46	3.49
	Bisco X 6573	84870	43155	1.03	3.18
	JH 270	98698	56983	1.37	3.31
	DKC 9120	98782	57067	1.37	3.78
	PMH 189				3.75
	PMH 2277	131560	89845	2.15	4.01
	IL 8212	113757	72042	1.73	3.69
	IL 8534	110062	68347	1.64	3.57
	Seedtech 2324-C	78516	36801	0.88	3.59
	Bio9681-C				3.94
	Buland-C	88229	46514	1.11	3.70
200:80:80	X35C537	111686	68199	1.57	3.85
	Ivori	128537	85050	1.96	4.05
	KMH 2589	126857	83370	1.92	3.33
	P3533	117116	73629	1.69	3.56
	Bisco X 6573	95283	51796	1.19	3.19
	JH 270	105024	61537	1.41	3.34
	DKC 9120	103344	59857	1.38	3.85
	PMH 189				3.82
	PMH 2277	135590	92103	2.12	3.96
	IL 8212	131112	87625	2.02	3.71
	IL 8534	118908	75421	1.73	3.66
	Seedtech 2324-C	119299	75812	1.74	3.73
	Bio9681-C				4.00
	Buland-C	110006	66519	1.53	3.76
250:95:95	X35C537	124394	79117	1.75	3.79
	Ivori	134023	88746	1.96	4.01
	KMH 2589	145276	99999	2.21	3.35
	P3533	129768	84491	1.87	3.53
	Bisco X 6573	101665	56388	1.25	3.20
	JH 270	107935	62658	1.38	3.32
	DKC 9120	110426	65149	1.44	3.82
	PMH 189				3.77
	PMH 2277	141077	95800	2.12	3.91
	IL 8212	140741	95464	2.11	3.96
	IL 8534	125514	80237	1.77	3.63
	Seedtech 2324-C	121007	75730	1.67	3.69
	Bio9681-C				3.95
	Buland-C	116304	71027	1.57	3.68

Contd…..

Nutrient	Genotypes	Gross profit (Rs/ha)	Net profit (Rs/ha)	BC ratio	
		Pantnagar	Pantnagar	Pantnagar	Karnal
Location mean		114654.5	71161.5	1.63	3.68
C.D.(5%) AiBj-AiBk		20109.8	20109.8	0.46	0.33
C.D.(5%) AiBk-AjBk		20125.8	20125.8	0.46	0.33
F(5%)		n.s.	n.s.	n.s.	n.s.
150:65:65		102222	60507	1.45	3.65
200:80:80		116897	73410	1.69	3.70
250:95:95		124844	79567	1.76	3.69
C.D. (5%) Ai-Aj		6092.4	6092.4	0.13	0.09
C.V. (%) Error A		8.1	13.1	12.62	4.16
F (5%)		s	s	s	n.s.
X35C537		112582	69089	1.58	3.81
Ivori		125999	82506	1.90	4.02
KMH 2589		124888	81395	1.86	3.31
P3533		116482	72989	1.67	3.53
Bisco X 6573		93939	50446	1.16	3.19
JH 270		103886	60393	1.39	3.32
DKC 9120		104184	60691	1.40	3.82
PMH 189					3.78
PMH 2277		136076	92583	2.13	3.96
IL 8212		128537	85044	1.95	3.79
IL 8534		118161	74668	1.72	3.62
Seedtech 2324-C		106274	62781	1.43	3.67
Bio9681-C					3.96
Buland-C		104846	61353	1.40	3.71
C.D. (5%) Bi-Bj		11610.4	11610.4	0.27	0.19
C.V. (%) ErrorB		10.8	17.3	17.42	5.51
F (5%)		s	s	s	s

Table 3: Performance of pre-release late maturity genotype under varying planting density and nutrients levels at Banswara.

Nutrient levels	Plant Density	Genotypes	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Days to 50% Silking	Plant height (cm)
200:65:80	Normal (60x20 cm)	X35C537	8300	10223	82.2	104.4	92.0	211.7
		GK 3150	7900	9788	82.2	114.8	95.0	220.0
		Ivori	8067	9921	82.2	111.8	95.0	173.3
		KMH 2589	7833	9557	82.2	87.8	98.0	240.0
		P3533	9833	11997	83.3	111.1	92.3	211.0
		Bisco X 6573	10067	12308	83.3	116.7	92.0	241.7
		JH 270	9100	11102	82.6	88.1	92.0	216.7
		DKC 9120	8033	9801	82.2	87.8	92.0	233.3
		Venus	8900	10935	79.6	101.1	95.0	246.7
		PMH 189	8700	10698	77.8	93.3	92.3	185.0
		PMH 2277	8533	10491	77.8	103.7	92.0	236.7
		IL 8212	8300	10126	75.9	91.1	92.0	213.3
		IL 8534	8500	10328	81.5	103.3	92.0	201.7
		Seedtech 2324-C	7333	9380	83.3	88.9	92.0	271.0
		Bio9681-C	8367	10239	83.0	110.7	92.0	231.7
		Buland-C	5833	4473	81.5	87.0	92.0	188.3
	High (60x15 cm)	X35C537	9074	11252	108.1	138.5	92.0	215.3
		GK 3150	8400	10416	107.4	150.7	95.0	225.0
		Ivori	8893	11027	108.5	147.8	95.0	178.3
		KMH 2589	8526	10572	108.1	114.4	98.0	245.0
		P3533	10607	13153	111.1	146.7	92.3	214.3
		Bisco X 6573	10567	13103	110.4	154.4	92.0	245.0
		JH 270	9926	12308	110.0	117.4	92.0	220.0
		DKC 9120	8726	10820	107.8	114.8	92.0	236.7
		Venus	9674	11996	105.9	134.4	95.0	250.0
		PMH 189	9200	11408	107.4	129.6	92.3	188.3
		PMH 2277	9359	11605	107.4	143.8	92.0	241.7
		IL 8212	8993	11151	108.1	131.5	92.3	218.3
		IL 8534	9274	11500	110.4	141.9	92.0	206.7
		Seedtech 2324-C	7833	9713	107.8	112.2	92.0	274.3
		Bio9681-C	9193	11399	109.6	138.5	92.0	235.0
		Buland-C	6526	8319	108.8	118.5	92.0	191.7
250:80:100	Normal (60x20 cm)	X35C537	8874	10669	82.6	106.3	92.0	215.3
		GK 3150	8400	10248	82.2	117.4	95.0	226.0
		Ivori	8600	10492	82.2	115.2	95.0	180.3
		KMH 2589	8367	10207	82.2	127.4	98.0	246.0
		P3533	10341	12616	83.3	112.2	92.3	214.3
		Bisco X 6573	10567	12891	83.3	155.2	92.0	245.0
		JH 270	9633	11753	82.6	98.9	92.0	220.0
		DKC 9120	8574	10480	82.2	91.9	92.0	236.7
		Venus	9374	11436	79.6	104.1	95.0	250.0
		PMH 189	9181	11201	81.5	102.2	92.3	190.3
		PMH 2277	9067	11061	82.2	109.6	92.0	241.7
		IL 8212	8733	10655	79.6	95.6	92.0	218.3
		IL 8534	8974	10948	81.5	102.6	92.0	206.7
		Seedtech 2324-C	7833	9557	83.3	93.0	92.0	274.3
		Bio9681-C	8833	10777	83.0	111.9	92.0	235.0
		Buland-C	6233	7736	81.5	90.4	92.0	191.7

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Nutrient levels	Plant Density	Genotypes	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Days to 50% Silking	Plant height (cm)
	High (60x15 cm)	X35C537	9615	11922	108.1	137.4	92.0	220.3
		GK 3150	8900	11036	107.4	150.4	95.0	230.0
		Ivori	9426	11688	108.5	147.4	95.0	183.3
		KMH 2589	9059	11233	108.1	114.8	98.0	250.0
		P3533	11141	13815	111.1	147.0	92.3	219.3
		Bisco X 6573	11067	13757	110.4	154.4	92.0	250.0
		JH 270	10459	12969	110.0	117.4	92.0	225.0
		DKC 9120	9226	11405	107.8	114.8	92.0	241.7
		Venus	10174	12616	105.9	134.4	95.0	255.0
		PMH 189	9681	12005	107.4	132.2	92.3	193.3
		PMH 2277	9893	12267	107.4	142.6	92.0	246.7
		IL 8212	9426	11688	108.1	129.6	92.0	223.3
		IL 8534	9741	12079	110.4	132.6	93.7	211.7
		Seedtech 2324-C	8333	10333	107.8	114.8	92.7	279.3
		Bio9681-C	9626	11936	109.6	146.3	92.0	240.0
		Buland-C	6926	8652	108.8	115.6	92.0	196.7
Mean of location			8947.6	10988.1	95.1	118.8	93.0	224.5
200:65:80			8699	10660	94.9	116.8	93.0	222.1
250:80:100			9196	11317	95.3	120.8	93.1	226.8
CD at 5%			40.10	366.85	NS	NS	NS	2.33
CV (%)			0.72	5.38	2.66	14.26	0.36	1.67
60x20 cm			8600	10440	81.7	104.2	93.0	222.3
60x15 cm			9296	11536	108.6	133.4	93.1	226.6
CD at 5%			172.64	370.13	0.84	6.17	NS	1.42
CV (%)			4.81	8.41	2.20	12.97	0.35	1.58
X35C537			8966	11017	95.3	121.7	92.0	215.7
GK 3150			8400	10372	94.8	133.3	95.0	225.3
Ivori			8746	10782	95.4	130.5	95.0	178.8
KMH 2589			8446	10392	95.2	111.1	98.0	245.3
P3533			10481	12895	97.2	129.3	92.3	214.8
Bisco X 6573			10567	13015	96.9	145.2	92.0	245.4
JH 270			9780	12033	96.3	105.5	92.0	220.4
DKC 9120			8640	10627	95.0	102.3	92.0	237.1
Venus			9531	11746	92.8	118.5	95.0	250.4
PMH 189			9191	11328	93.5	114.4	92.3	189.3
PMH 2277			9213	11356	93.7	124.9	92.0	241.7
IL 8212			8863	10905	93.0	111.9	92.1	218.3
IL 8534			9122	11214	95.9	120.1	92.4	206.7
Seedtech 2324-C			7833	9746	95.6	102.2	92.2	274.8
Bio9681-C			9005	11088	96.3	126.9	92.0	235.4
Buland-C			6380	7295	95.1	102.9	92.0	192.1
CD at 5%			487.02	713.37	2.62	9.40	0.26	3.76
CV (%)			6.73	8.03	3.40	9.79	0.35	2.07

Table 4: Performance of pre-release medium maturity genotypes under varying planting density and nutrient levels in different locations.

Nutrient levels	Plant Density	Genotypes	Grain yield (kg/ha)				
			Arbhavi	Bahraich	Banswara	Karimnagar	Vagarai
200:65:80	60x20 cm (Normal)	PMH 2246	7390	5732	9873	6944	7257
		DKC 9155(IL8536)	10009	5688	8937	6451	6527
		DKC 9142(IJ 8214)	9213	5493	9572	5958	7889
		KH K26	7002	5538	6808	5799	8808
		DKC9135(IJ 8521)	6433	5892	6419	7129	7733
		Bio9637-C	6278	5682	6527	6132	8450
	50x20 cm (High)	PMH 2246	7456	5432	10299	6030	7655
		DKC 9155(IL8536)	10392	5243	9519	6271	7202
		DKC 9142(IJ 8214)	9235	5337	9741	5917	7001
		KH K26	8488	5262	7715	5744	6796
		DKC9135(IJ 8521)	6769	5587	7146	6804	6595
		Bio9637-C	6788	5472	7433	5670	8091
250:80:100	60x20 cm (Normal)	PMH 2246	8693	6357	10423	7010	8505
		DKC 9155(IL8536)	14306	6210	9277	7206	8896
		DKC 9142(IJ 8214)	10249	6042	9907	6266	8538
		KH K26	8207	6263	7092	6193	9383
		DKC9135(IJ 8521)	8487	6580	6962	7982	8796
		Bio9637-C	8390	6292	6767	6432	8478
	50x20 cm (High)	PMH 2246	10202	6102	10797	6228	7322
		DKC 9155(IL8536)	14223	5823	9819	6805	8286
		DKC 9142(IJ 8214)	12959	5953	10272	6035	9265
		KH K26	8603	6025	8028	5914	9136
		DKC9135(IJ 8521)	7930	6458	7817	7047	8652
		Bio9637-C	8829	5977	7733	5945	8417
Mean of location			9022.1	5851.6	8536.7	6413.0	8069.9
200:65:80			7954	5530	8332	6237	7500
250:80:100			10090	6173	8741	6589	8640
CD at 5%			988.3	18.0	NS	NS	1057.9
CV (%)			10.80	0.30	11.64	10.27	12.93
60x20 cm (Normal)			8721	5981	8214	6625	8272
50x20 cm (High)			9323	5723	8860	6201	7868
CD at 5%			NS	18.7	244.2	168.9	NS
CV (%)			15.38	0.49	4.37	4.03	9.07
PMH 2246			8435	5905	10348	6553	7685
DKC 9155(IL8536)			12232	5741	9388	6683	7728
DKC 9142(IJ 8214)			10414	5706	9873	6044	8173
KH K26			8075	5772	7411	5913	8531
DKC9135(IJ 8521)			7405	6129	7086	7240	7944
Bio9637-C			7571	5855	7115	6045	8359
CD at 5%			561.6	23.5	388.7	545.9	NS
CV (%)			7.54	0.49	5.52	10.32	10.59

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Nutrient levels	Plant Density	Genotypes	Stover yield (kg/ha)			
			Arbhavi	Bahraich	Kolhapur	Vagarai
200:65:80	60x20 cm (Normal)	PMH 2246	8819	6225	15250	7416
		DKC 9155(IL8536)	10278	6712	14750	5967
		DKC 9142(IJ 8214)	8194	6623	14125	6783
		KH K26	6875	6606	18375	10136
		DKC9135(IJ 8521)	6111	6887	18667	8463
		Bio9637-C	7292	6177	11500	8101
	50x20 cm (High)	PMH 2246	8333	6115	14500	7405
		DKC 9155(IL8536)	10694	6217	12875	7886
		DKC 9142(IJ 8214)	8403	6405	10792	7153
		KH K26	8125	6285	16375	7598
		DKC9135(IJ 8521)	5347	6298	17792	7084
		Bio9637-C	6806	5743	14583	7784
250:80:100	60x20 cm (Normal)	PMH 2246	9750	6948	14750	9516
		DKC 9155(IL8536)	13583	7078	16292	7916
		DKC 9142(IJ 8214)	9417	7010	15792	7956
		KH K26	8333	7067	16875	10366
		DKC9135(IJ 8521)	7500	7134	20417	8307
		Bio9637-C	8167	6910	19167	9572
	50x20 cm (High)	PMH 2246	10583	6634	15875	7569
		DKC 9155(IL8536)	14250	6808	20000	10087
		DKC 9142(IJ 8214)	11333	6880	17833	10752
		KH K26	8250	6887	17333	9963
		DKC9135(IJ 8521)	7500	6700	17917	9299
		Bio9637-C	8417	6623	16208	8555
Mean of location			8848.4	6623.9	16168.4	8401.5
200:65:80			7940	6358	14965	7648
250:80:100			9757	6890	17372	9155
CD at 5%			1013.5	162.5	543.4	1037.4
CV (%)			11.29	2.42	3.31	12.18
60x20 cm (Normal)			8693	6781	16330	8375
50x20 cm (High)			9003	6466	16007	8428
CD at 5%			NS	87.02	NS	NS
CV (%)			27.28	2.01	9.17	15.44
PMH 2246			9372	6481	15094	7976
DKC 9155(IL8536)			12201	6704	15979	7964
DKC 9142(IJ 8214)			9337	6730	14635	8161
KH K26			7896	6711	17240	9516
DKC9135(IJ 8521)			6615	6755	18698	8288
Bio9637-C			7670	6363	15365	8503
CD at 5%			565.5	111.07	1922.4	NS
CV (%)			7.75	2.03	14.41	20.05

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Nutrient levels	Plant Density	Genotypes	Plants ('000/ha)				
			Arbhavi	Bahraich	Banswara	Kolhapur	Vagarai
200:65:80	60x20 cm (Normal)	PMH 2246	79.2	82.4	83.3	68.3	56.8
		DKC 9155(IL8536)	71.5	82.7	82.6	68.3	68.5
		DKC 9142(IJ 8214)	78.5	82.9	82.2	68.9	67.3
		KH K26	78.1	82.9	81.5	68.3	67.9
		DKC9135(IJ 8521)	78.5	82.7	82.2	70.3	61.1
		Bio9637-C	76.7	82.7	82.2	68.1	61.7
	50x20 cm (High)	PMH 2246	78.1	99.4	110.4	84.4	52.5
		DKC 9155(IL8536)	77.8	99.3	108.1	90.0	64.2
		DKC 9142(IJ 8214)	75.3	99.8	109.6	87.2	71.6
		KH K26	75.3	99.5	110.0	88.1	56.8
		DKC9135(IJ 8521)	72.9	99.5	108.1	93.1	69.8
		Bio9637-C	76.4	99.7	108.1	92.5	56.8
250:80:100	60x20 cm (Normal)	PMH 2246	79.6	82.4	83.0	72.8	68.1
		DKC 9155(IL8536)	81.7	79.4	82.2	73.6	69.6
		DKC 9142(IJ 8214)	90.0	82.9	82.2	72.2	69.6
		KH K26	92.1	82.9	82.2	70.6	72.6
		DKC9135(IJ 8521)	89.6	82.6	82.6	72.8	65.9
		Bio9637-C	87.1	82.7	82.6	74.2	79.3
	50x20 cm (High)	PMH 2246	86.3	99.4	110.4	90.8	73.3
		DKC 9155(IL8536)	90.0	99.5	107.4	92.8	64.4
		DKC 9142(IJ 8214)	92.1	99.8	109.3	90.8	83.7
		KH K26	90.4	99.3	108.1	85.6	76.3
		DKC9135(IJ 8521)	88.3	99.5	110.4	89.4	77.0
		Bio9637-C	88.8	99.7	109.6	87.8	79.3
Mean of location			82.3	91.0	95.8	80.0	68.1
200:65:80			76.5	91.1	95.7	79.0	62.9
250:80:100			88.0	90.8	95.8	81.1	73.3
CD at 5%			7.2	NS	NS	NS	NS
CV (%)			8.65	1.33	3.62	3.15	28.21
60x20 cm (Normal)			81.9	82.4	82.4	70.7	67.4
50x20 cm (High)			82.6	99.5	109.1	89.4	68.8
CD at 5%			NS	0.77	0.87	1.68	NS
CV (%)			9.98	1.29	1.39	3.20	13.27
PMH 2246			80.8	90.9	96.8	79.1	62.7
DKC 9155(IL8536)			80.2	90.2	95.1	81.2	66.7
DKC 9142(IJ 8214)			84.0	91.4	95.8	79.8	73.1
KH K26			84.0	91.1	95.5	78.1	68.4
DKC9135(IJ 8521)			82.3	91.1	95.8	81.4	68.5
Bio9637-C			82.2	91.2	95.7	80.6	69.3
CD at 5%			NS	NS	NS	NS	5.98
CV (%)			5.99	1.30	2.34	5.25	10.65

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Nutrient levels	Plant Density	Genotypes	Cobs ('000/ha)					Days to maturity	
			Arbhavi	Bahraich	Banswara	Kolhapur	Vagarai	Bahraich	Kolhapur
200:65:80	60x20 cm (Normal)	PMH 2246	67.7	81.9	108.5	69.2	53.7	150.0	99.3
		DKC 9155(IL8536)	71.9	82.4	109.3	71.7	65.4	151.7	100.3
		DKC 9142(IJ 8214)	80.6	82.7	108.1	72.2	63.6	152.7	103.3
		KH K26	73.3	82.6	100.7	68.9	64.8	152.3	100.7
		DKC9135(IJ 8521)	75.0	82.4	103.3	70.6	59.3	153.0	98.7
		Bio9637-C	75.0	82.4	94.4	68.6	58.6	151.0	103.3
	50x20 cm (High)	PMH 2246	65.3	98.7	134.1	85.3	51.2	149.0	99.3
		DKC 9155(IL8536)	76.4	98.9	125.9	90.8	60.5	153.0	100.3
		DKC 9142(IJ 8214)	79.5	99.0	136.7	87.5	68.5	152.3	102.3
		KH K26	72.2	98.9	128.9	88.3	56.2	151.3	100.3
		DKC9135(IJ 8521)	67.0	98.7	126.3	93.3	67.3	152.3	99.7
		Bio9637-C	69.4	99.5	129.6	92.8	54.9	151.7	103.3
250:80:100	60x20 cm (Normal)	PMH 2246	71.7	81.9	108.5	73.3	59.3	151.7	99.7
		DKC 9155(IL8536)	81.3	82.5	109.3	75.6	68.1	153.0	101.3
		DKC 9142(IJ 8214)	91.3	82.5	108.1	72.8	69.6	152.7	102.3
		KH K26	80.8	82.6	100.7	71.1	68.1	154.3	100.7
		DKC9135(IJ 8521)	82.5	72.2	103.3	73.3	63.7	154.7	99.7
		Bio9637-C	79.2	82.6	94.4	74.7	76.3	153.0	104.7
	50x20 cm (High)	PMH 2246	73.3	98.5	134.1	91.1	68.1	151.0	99.3
		DKC 9155(IL8536)	88.8	98.9	125.9	93.1	62.2	155.0	100.7
		DKC 9142(IJ 8214)	91.7	99.0	136.7	91.1	80.7	154.0	102.3
		KH K26	76.7	93.5	128.9	86.1	74.1	152.7	99.7
		DKC9135(IJ 8521)	75.8	98.7	126.3	89.4	72.6	155.7	99.7
		Bio9637-C	75.0	99.4	129.6	87.8	77.8	153.3	103.7
Mean of location			76.7	90.0	117.2	80.8	65.2	152.6	101.0
200:65:80			72.8	90.7	117.2	79.9	60.3	151.7	100.9
250:80:100			80.7	89.4	117.2	81.6	70.1	153.4	101.1
CD at 5%			4.6	NS	NS	NS	NS	1.67	NS
CV (%)			5.90	5.93	0.00	4.11	21.03	1.08	0.62
60x20 cm (Normal)			77.5	81.6	104.1	71.8	64.2	152.5	101.2
50x20 cm (High)			75.9	98.5	130.3	89.7	66.2	152.6	100.9
CD at 5%			NS	1.03	2.71	1.61	NS	NS	NS
CV (%)			4.55	1.75	3.53	3.04	11.49	0.36	0.62
PMH 2246			69.5	90.2	121.3	79.7	58.1	150.4	99.4
DKC 9155(IL8536)			79.6	90.7	117.6	82.8	64.1	153.2	100.7
DKC 9142(IJ 8214)			85.8	90.8	122.4	80.9	70.6	152.9	102.6
KH K26			75.8	89.4	114.8	78.6	65.8	152.7	100.3
DKC9135(IJ 8521)			75.1	88.0	114.8	81.7	65.7	153.9	99.4
Bio9637-C			74.7	91.0	112.0	81.0	66.9	152.3	103.8
CD at 5%			3.9	NS	4.96	NS	6.34	0.61	0.48
CV (%)			6.08	4.46	5.13	5.12	11.78	0.48	0.58

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Nutrient levels	Plant Density	Genotypes	Plant height (cm)					
			Arbhavi	Bahraich	Banswara	Karimnagar	Kolhapur	Vagarai
200:65:80	60x20 cm (Normal)	PMH 2246	194.1	187.3	211.7	248.0	199.3	184.7
		DKC 9155(IL8536)	212.1	186.7	201.7	229.8	196.3	191.3
		DKC 9142(IJ 8214)	239.5	188.0	208.7	259.7	192.0	199.3
		KH K26	198.0	187.7	190.0	236.8	179.7	195.7
		DKC9135(IJ 8521)	188.7	185.7	216.0	238.0	184.0	194.7
		Bio9637-C	204.7	190.7	183.3	230.7	194.7	192.7
	50x20 cm (High)	PMH 2246	192.3	186.3	219.3	253.7	200.3	202.7
		DKC 9155(IL8536)	179.0	185.3	211.0	233.7	200.0	204.3
		DKC 9142(IJ 8214)	207.0	187.0	216.7	255.0	193.0	214.0
		KH K26	186.3	186.7	203.3	223.2	182.7	196.7
		DKC9135(IJ 8521)	177.0	184.3	222.3	237.3	183.0	204.7
		Bio9637-C	196.1	189.0	191.7	251.2	192.7	209.3
250:80:100	60x20 cm (Normal)	PMH 2246	204.0	192.7	222.7	247.0	196.3	196.0
		DKC 9155(IL8536)	202.7	192.7	210.3	228.2	188.0	194.3
		DKC 9142(IJ 8214)	222.0	197.3	217.0	248.0	187.3	210.0
		KH K26	192.0	195.7	200.3	224.5	189.3	192.0
		DKC9135(IJ 8521)	199.3	192.0	223.3	241.0	191.3	204.7
		Bio9637-C	208.7	197.0	195.7	252.7	197.0	219.4
	50x20 cm (High)	PMH 2246	191.1	191.7	224.7	226.7	195.3	207.7
		DKC 9155(IL8536)	194.7	191.7	213.0	237.5	192.0	197.7
		DKC 9142(IJ 8214)	217.3	192.3	218.7	260.2	172.0	209.3
		KH K26	186.7	194.7	218.3	232.7	182.3	196.0
		DKC9135(IJ 8521)	181.3	191.0	224.7	251.0	190.7	207.0
		Bio9637-C	197.3	195.7	192.3	246.5	196.0	211.3
Mean of location			198.8	190.4	209.9	241.4	190.6	201.5
200:65:80			197.9	187.1	206.3	241.4	191.5	199.2
250:80:100			199.8	193.7	213.4	241.3	189.8	203.8
CD at 5%			NS	0.78	NS	NS	0.36	NS
CV (%)			6.65	0.41	4.83	0.91	0.19	10.53
60x20 cm (Normal)			205.5	191.1	206.7	240.4	191.3	197.9
50x20 cm (High)			192.2	189.6	213.0	242.4	190.0	205.1
CD at 5%			NS	0.80	2.76	NS	1.01	NS
CV (%)			17.54	0.64	2.01	4.32	0.81	8.39
PMH 2246			195.4	189.5	219.6	243.8	197.8	197.8
DKC 9155(IL8536)			197.1	189.1	209.0	232.3	194.1	196.9
DKC 9142(IJ 8214)			221.5	191.2	215.3	255.7	186.1	208.2
KH K26			190.8	191.2	203.0	229.3	183.5	195.1
DKC9135(IJ 8521)			186.6	188.3	221.6	241.8	187.3	202.8
Bio9637-C			201.7	193.1	190.8	245.3	195.1	208.2
CD at 5%			11.3	1.09	2.98	10.91	4.01	9.51
CV (%)			6.87	0.69	1.72	5.48	2.55	5.72

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Nutrient levels	Plant Density	Genotypes	Days to 50% silking					
			Arbhavi	Bahraich	Banswara	Karimnagar	Kolhapur	Vagarai
200:65:80	60x20 cm (Normal)	PMH 2246	81.0	109.7	94.0	76.7	59.7	57.3
		DKC 9155(IL8536)	81.0	112.7	92.0	75.7	59.7	56.7
		DKC 9142(IJ 8214)	80.0	113.7	92.0	77.0	63.7	57.0
		KH K26	79.7	113.7	92.0	74.3	60.7	54.3
		DKC9135(IJ 8521)	79.0	111.7	92.0	75.3	60.3	55.7
		Bio9637-C	82.7	111.0	92.0	76.7	65.3	56.7
	50x20 cm (High)	PMH 2246	81.3	108.3	94.0	77.3	60.3	56.3
		DKC 9155(IL8536)	82.0	113.0	92.0	76.0	62.3	56.3
		DKC 9142(IJ 8214)	79.3	115.0	92.0	77.0	64.3	56.0
		KH K26	78.7	114.0	92.0	76.7	61.3	55.7
		DKC9135(IJ 8521)	78.7	114.0	92.0	74.3	60.3	56.7
		Bio9637-C	82.0	109.3	92.0	75.7	65.3	57.3
250:80:100	60x20 cm (Normal)	PMH 2246	81.0	111.0	94.0	74.3	60.3	58.0
		DKC 9155(IL8536)	80.7	113.7	92.0	75.0	62.3	58.0
		DKC 9142(IJ 8214)	80.7	126.0	92.0	76.0	64.3	58.7
		KH K26	78.7	113.3	92.0	74.0	61.3	57.7
		DKC9135(IJ 8521)	77.7	110.3	92.0	75.3	60.3	57.3
		Bio9637-C	82.7	110.0	92.0	76.7	64.7	58.7
	50x20 cm (High)	PMH 2246	80.7	109.0	94.0	76.0	59.7	58.3
		DKC 9155(IL8536)	81.0	114.3	92.0	75.7	61.7	57.7
		DKC 9142(IJ 8214)	80.0	113.0	92.0	76.0	64.3	57.3
		KH K26	78.7	112.3	92.0	76.7	61.3	56.3
		DKC9135(IJ 8521)	78.0	111.0	92.0	74.3	60.3	56.7
		Bio9637-C	82.7	109.0	92.0	75.3	65.0	59.3
Mean of location			80.3	112.5	92.3	75.8	62.0	57.1
200:65:80			80.4	112.2	92.3	76.1	61.9	56.3
250:80:100			80.2	112.8	92.3	75.4	62.1	57.8
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			2.33	2.75	0.00	1.95	0.50	3.18
60x20 cm (Normal)			80.4	113.1	92.3	75.6	61.9	57.2
50x20 cm (High)			80.3	111.9	92.3	75.9	62.2	57.0
CD at 5%			NS	NS	NS	NS	0.15	NS
CV (%)			4.65	4.55	0.00	1.07	0.38	2.22
PMH 2246			81.0	109.5	94.0	76.1	60.0	57.5
DKC 9155(IL8536)			81.2	113.4	92.0	75.6	61.5	57.2
DKC 9142(IJ 8214)			80.0	116.9	92.0	76.5	64.2	57.3
KH K26			78.9	113.3	92.0	75.4	61.2	56.0
DKC9135(IJ 8521)			78.3	111.8	92.0	74.8	60.3	56.6
Bio9637-C			82.5	109.8	92.0	76.1	65.1	58.0
CD at 5%			0.9	4.11	0.00	0.78	0.53	0.76
CV (%)			1.37	4.43	0.00	1.25	1.03	1.60

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Nutrient levels	Plant Density	Genotypes	Test weight (g)				Net return (Rs/ha)		BC ratio
			Bahraich	Karimnagar	Kolhapur	Vagarai	Arbhavi	Bahraich	Arbhavi
200:65:80	60x20 cm (Normal)	PMH 2246	221.7	320.0	272.3	340.0	42350	57468	2.34
		DKC 9155(IL8536)	229.0	260.0	364.7	326.7	68583	57348	3.17
		DKC 9142(IJ 8214)	226.7	292.0	384.7	353.3	60583	54763	2.92
		KH K26	225.3	273.3	354.0	360.0	38483	55155	2.22
		DKC9135(IJ 8521)	224.7	244.0	345.7	346.7	32783	60703	2.04
		Bio9637-C	226.7	292.0	354.0	356.7	31250	56720	1.99
	50x20 cm (High)	PMH 2246	219.7	322.7	356.3	343.3	41067	53158	2.23
		DKC 9155(IL8536)	227.0	258.7	331.0	340.0	70433	50623	3.10
		DKC 9142(IJ 8214)	224.3	313.3	322.0	340.0	58867	52118	2.76
		KH K26	223.7	276.0	323.0	336.7	51367	50948	2.53
		DKC9135(IJ 8521)	223.0	272.0	373.0	330.0	34200	55512	2.02
		Bio9637-C	225.0	276.7	390.3	353.3	34367	53347	2.03
250:80:100	60x20 cm (Normal)	PMH 2246	227.0	334.7	395.7	356.7	55383	65942	2.76
		DKC 9155(IL8536)	235.0	288.0	321.0	366.7	111517	64018	4.53
		DKC 9142(IJ 8214)	228.3	325.3	324.3	356.7	70950	61593	3.25
		KH K26	229.7	292.0	318.0	370.0	50550	64753	2.60
		DKC9135(IJ 8521)	229.7	260.0	356.0	360.0	53317	69254	2.69
		Bio9637-C	231.0	325.3	379.0	356.7	52350	64993	2.66
	50x20 cm (High)	PMH 2246	225.0	330.7	354.0	336.7	68533	62058	3.05
		DKC 9155(IL8536)	233.3	268.0	346.0	356.7	108733	58335	4.25
		DKC 9142(IJ 8214)	226.3	318.7	354.7	366.7	96100	60227	3.87
		KH K26	227.3	281.3	386.7	356.7	52533	60903	2.57
		DKC9135(IJ 8521)	227.7	277.3	365.7	356.7	45800	67450	2.37
		Bio9637-C	228.3	300.0	326.0	353.3	54800	60297	2.64
Mean of location			226.9	291.8	349.9	350.8	57704.2	59070.4	2.77
200:65:80			224.7	283.4	347.6	343.9	47028	54822	2.45
250:80:100			229.1	300.1	352.3	357.8	68381	63319	3.10
CD at 5%			0.21	11.8	NS	NS	9872.4	214.47	0.30
CV (%)			0.09	4.00	29.02	4.09	16.87	0.36	10.75
60x20 cm (Normal)			227.9	292.2	347.4	354.2	55675	61059	2.76
50x20 cm (High)			225.9	291.3	352.4	347.5	59733	57081	2.78
CD at 5%			0.42	NS	NS	5.34	NS	331.77	NS
CV (%)			0.28	5.34	11.62	2.33	24.05	0.86	15.48
PMH 2246			223.3	327.0	344.6	344.2	51833	59657	2.59
DKC 9155(IL8536)			231.1	268.7	340.7	347.5	89817	57581	3.76
DKC 9142(IJ 8214)			226.4	312.3	346.4	354.2	71625	57175	3.20
KH K26			226.5	280.7	345.4	355.8	48233	57940	2.48
DKC9135(IJ 8521)			226.3	263.3	360.1	348.3	41525	63230	2.28
Bio9637-C			227.8	298.5	362.3	355.0	43192	58839	2.33
CD at 5%			0.60	21.07	NS	NS	5614.6	331.60	0.17
CV (%)			0.32	8.75	8.38	4.12	11.79	0.68	7.55

Contd…..

Nutrient levels	Plant Density	Genotypes	Gross Return (Rs./ha)	Cost of Cultivation (Rs./ha)	Net Return (Rs./ha)	BC ratio
			Vagarai			
200:65:80	60x20 cm (Normal)	PMH 2246	99960	65215	34745	1.53
		DKC 9155(IL8536)	79848	65215	14633	1.22
		DKC 9142(IJ 8214)	93313	65215	28098	1.43
		KH K26	123213	65215	57998	1.89
		DKC9135(IJ 8521)	110877	65215	45662	1.70
		Bio9637-C	106339	65215	41124	1.63
	50x20 cm (High)	PMH 2246	98510	67023	31487	1.47
		DKC 9155(IL8536)	99232	67023	32209	1.48
		DKC 9142(IJ 8214)	92442	67023	25419	1.38
		KH K26	91734	67023	24711	1.37
		DKC9135(IJ 8521)	85632	67023	18609	1.28
		Bio9637-C	101886	67023	34863	1.52
250:80:100	60x20 cm (Normal)	PMH 2246	124477	65215	59262	1.91
		DKC 9155(IL8536)	109542	65215	44327	1.68
		DKC 9142(IJ 8214)	107345	65215	42130	1.65
		KH K26	124859	65215	59644	1.91
		DKC9135(IJ 8521)	111671	65215	46456	1.71
		Bio9637-C	124554	65215	59339	1.91
	50x20 cm (High)	PMH 2246	102356	67023	35333	1.53
		DKC 9155(IL8536)	126841	67023	59818	1.89
		DKC 9142(IJ 8214)	130038	67023	63015	1.94
		KH K26	121288	67023	54265	1.81
		DKC9135(IJ 8521)	122122	67023	55099	1.82
		Bio9637-C	112618	67023	45595	1.68

Mean of location

200:65:80	98582	66119	32463	1.49
250:80:100	118143	66119	52024	1.79

60x20 cm (Normal)	109667	65215	44452	1.68
50x20 cm (High)	107058	67023	40035	1.60

PMH 2246	106326	66119	40207	1.61
DKC 9155(IL8536)	103866	66119	37747	1.57
DKC 9142(IJ 8214)	105785	66119	39666	1.60
KH K26	115274	66119	49155	1.75
DKC9135(IJ 8521)	107576	66119	41457	1.63
Bio9637-C	111349	66119	45230	1.69

Table 5: Relative performance of pre-release medium maturity genotype under varying planting density and nutrients levels in zone II.

Nutrient	Genotypes	Grain yield (kg/ha)			Stover yield (kg/ha)	Plants ('000/ha)		Cobs ('000/ha)	
		Delhi	Karnal	Pantnagar	Pantnagar	Karnal	Pantnagar	Delhi	Pantnagar
150:65:65	PMH 2246	7067	9763	8162	12650	63.9	61.5	45.9	61.5
	HKH 325*	6548	7569	8766	17607	63.8	62.4	74.8	62.4
	DKC 9155(IL8536)	7629	9591	8667	24145	63.0	64.1	82.2	64.1
	DKC 9142(IJ 8214)	5543	8627	7180	19231	62.9	62.4	62.2	62.4
	KH K26	5867	8268	5786	19786	63.6	60.7	63.7	60.7
	DKC9135(IJ 8521)	7052	9197	8124	20812	63.7	61.5	66.7	61.5
	Bio9637-C	6459	9110	6060	21710	63.6	64.1	62.2	64.1
200:80:80	PMH 2246	5459	10409	9466	13462	63.7	60.7	40.0	60.7
	HKH 325*	5371	8140	9402	19145	63.1	62.4	54.8	62.4
	DKC 9155(IL8536)	6726	10107	9056	24573	63.9	65.8	86.7	65.8
	DKC 9142(IJ 8214)	4756	9227	7530	20128	64.0	57.3	55.6	57.3
	KH K26	8577	8727	6248	20000	63.3	59.8	70.4	59.8
	DKC9135(IJ 8521)	8932	9880	8707	21966	63.6	60.7	66.7	60.7
	Bio9637-C	8686	9660	6786	23889	63.6	65.0	65.9	65.0
250:95:95	PMH 2246	5725	10619	9658	14103	64.6	59.0	34.8	59.0
	HKH 325*	5437	8321	9817	19573	63.6	62.4	52.6	62.4
	DKC 9155(IL8536)	7644	10305	9273	24445	63.9	63.2	81.5	63.2
	DKC 9142(IJ 8214)	4600	9510	7660	20513	64.1	60.7	64.3	60.7
	KH K26	6555	9048	6490	20086	63.1	62.4	83.0	62.4
	DKC9135(IJ 8521)	8088	10117	8894	22564	63.7	65.8	69.6	65.8
	Bio9637-C	6675.5	9873	7773	24274	62.9	59.0	71.1	59.0
Location mean		6637.7	9336.5	8071.7	20221.9	63.6	61.9	64.5	61.9
C.D.(5%) AiBj-AiBk		2330.8	885.0	1552.1	2540.9	2.1	7.1	14.5	7.1
C.D.(5%) AiBk-AjBk		2170.8	914.6	1517.6	2869.5	2.2	6.9	14.2	6.9
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
150:65:65		6595	8875	7535	19420	63.5	62.4	65.4	62.4
200:80:80		6929	9450	8171	20452	63.6	61.7	62.9	61.7
250:95:95		6389	9685	8510	20794	63.7	61.8	65.3	61.8
C.D. (5%) Ai-Aj		274.7	420.0	505.6	1691.9	1.0	2.4	5.6	2.4
C.V. (%) Error A		2.5	5.3	7.3	9.8	1.9	4.5	5.4	4.5
F (5%)		s	s	s	n.s.	n.s.	n.s.	n.s.	n.s.
PMH 2246		6084	10264	9095	13405	64.0	60.4	40.2	60.4
HKH 325*		5785	8010	9328	18775	63.5	62.4	60.7	62.4
DKC 9155(IL8536)		7333	10001	8999	24388	63.6	64.4	83.5	64.4
DKC 9142(IJ 8214)		4966	9122	7457	19957	63.6	60.1	60.7	60.1
KH K26		7000	8681	6175	19957	63.3	61.0	72.3	61.0
DKC9135(IJ 8521)		8024	9731	8575	21781	63.7	62.7	67.7	62.7
Bio9637-C		7273	9548	6873	23291	63.4	62.7	66.4	62.7
C.D. (5%) Bi-Bj		1345.7	510.9	896.1	1467.0	1.2	4.1	8.3	4.1
C.V. (%) ErrorB		16.7	5.7	11.6	7.6	2.0	6.9	10.7	6.9
F (5%)		s	s	s	s	n.s.	n.s.	s	n.s.

Contd…..

Nutrient	Genotypes	Plant height (cm)			Days to 50% silking		100 grain weight (g)	
		Delhi	Karnal	Pantnagar	Karnal	Pantnagar	Delhi	Pantnagar
150:65:65	PMH 2246	176.0	175.0	136.3	138.3	127.7	28.1	29.3
	HKH 325*	156.5	161.7	155.5	136.7	126.7	24.7	28.0
	DKC 9155(IL8536)	176.3	192.3	185.8	138.3	130.0	22.9	23.2
	DKC 9142(IJ 8214)	169.1	185.0	155.3	143.3	130.7	22.1	23.8
	KH K26	167.3	175.0	188.4	141.3	125.3	23.6	24.0
	DKC9135(IJ 8521)	155.5	184.0	173.9	141.7	125.7	28.2	24.8
	Bio9637-C	171.8	190.0	190.1	145.3	128.3	19.3	21.6
200:80:80	PMH 2246	167.5	192.7	150.5	139.7	127.7	27.7	30.5
	HKH 325*	153.2	172.3	161.0	137.0	126.7	25.5	28.5
	DKC 9155(IL8536)	180.2	196.3	190.9	138.3	130.0	27.8	24.0
	DKC 9142(IJ 8214)	188.1	186.7	160.1	140.3	130.3	25.6	26.5
	KH K26	184.6	180.0	194.4	137.3	125.7	29.8	25.0
	DKC9135(IJ 8521)	172.8	188.3	177.5	138.3	125.3	23.1	25.5
	Bio9637-C	198.1	194.3	192.2	143.0	128.3	23.6	23.5
250:95:95	PMH 2246	160.4	194.3	161.7	138.3	127.3	27.4	30.8
	HKH 325*	157.4	175.0	162.2	136.7	126.3	23.5	28.6
	DKC 9155(IL8536)	172.4	199.0	193.1	138.3	130.3	24.0	24.4
	DKC 9142(IJ 8214)	164.0	187.3	160.4	143.3	130.0	21.5	26.7
	KH K26	160.5	180.7	195.1	141.3	125.3	24.6	25.4
	DKC9135(IJ 8521)	164.5	191.7	180.7	141.7	125.3	26.5	25.5
	Bio9637-C	178.7	198.3	192.9	145.3	128.0	23.1	25.2
Location mean		170.2	185.7	174.2	140.2	127.7	24.9	25.9
C.D.(5%) AiBj-AiBk		20.3	7.0	6.8	4.2	1.0	5.4	1.6
C.D.(5%) AiBk-AjBk		21.4	7.3	6.9	4.2	1.2	5.5	1.6
F(5%)		n.s.	n.s.	s	n.s.	n.s.	n.s.	n.s.
150:65:65		167.5	180.4	169.3	140.7	127.8	24.1	25.0
200:80:80		177.8	187.2	175.2	139.1	127.7	26.2	26.2
250:95:95		165.4	189.5	178.0	140.7	127.5	24.4	26.7
C.D. (5%) Ai-Aj		11.8	3.5	2.8	1.6	0.8	2.4	0.6
C.V. (%) Error A		4.3	2.2	1.9	1.3	0.8	6.0	2.8
F (5%)		n.s.	s	s	n.s.	n.s.	n.s.	s
PMH 2246		168.0	187.3	149.5	138.8	127.6	27.7	30.2
HKH 325*		155.7	169.7	159.6	136.8	126.6	24.6	28.4
DKC 9155(IL8536)		176.3	195.9	189.9	138.3	130.1	24.9	23.9
DKC 9142(IJ 8214)		173.7	186.3	158.6	142.3	130.3	23.1	25.7
KH K26		170.8	178.6	192.6	140.0	125.4	26.0	24.8
DKC9135(IJ 8521)		164.3	188.0	177.4	140.6	125.4	25.9	25.3
Bio9637-C		182.9	194.2	191.8	144.6	128.2	22.0	23.4
C.D. (5%) Bi-Bj		11.7	4.0	3.9	2.4	0.6	3.1	0.9
C.V. (%) ErrorB		5.7	2.3	2.4	1.8	0.5	10.4	3.8
F (5%)		s	s	s	s	s	s	s

Table 6: Performance of pre-release early maturity genotypes under varying planting density and nutrient levels in different locations.

Nutrient levels	Plant Density	Genotypes	Grain yield (kg/ha)					
			Arbhavi	Bahraich	Banswara	Karimnagar	Ludhiana	Vagarai
150:65:80	60x20 cm	KH K25	5855	5138	5963	6262	7674	8961
		HKH 329*	5303	5190	7037	6043	6486	6355
		HKH 330*	5523	5263	3952	5551	7931	6728
		Prakash-C	4798	5527	4863	5528	6278	5669
	50x20 cm	KH K25	8201	4998	7019	6486	8153	6877
		HKH 329*	7149	4933	7470	5960	9319	6796
		HKH 330*	6818	5060	4493	6333	10403	7057
		Prakash-C	4654	5320	5393	5266	6924	5332
200:80:100	60x20 cm	KH K25	6271	5720	6836	6385	7792	7476
		HKH 329*	6185	5845	7249	6934	7292	8550
		HKH 330*	5870	5607	4256	6619	9264	9095
		Prakash-C	4422	5885	5363	5915	6563	7999
	50x20 cm	KH K25	7105	5457	7704	6538	8958	8592
		HKH 329*	6533	5368	7870	6618	8785	7269
		HKH 330*	6787	5573	5104	6472	10208	7111
		Prakash-C	5101	5685	5793	5505	7188	8072
Mean of location			6036.0	5410.6	6022.8	6150.9	8076.0	7371.1
60x20 cm			6038	5179	5774	5929	7896	6722
50x20 cm			6034	5643	6272	6373	8256	8020
CD at 5%			NS	90.9	186.8	268.1	NS	862.9
CV (%)			11.97	1.35	2.50	3.51	10.95	9.42
150:65:80			5529	5522	5690	6155	7410	7604
200:80:100			6543	5299	6356	6147	8742	7138
CD at 5%			674.8	8.7	336.5	NS	492.7	NS
CV (%)			13.95	0.20	6.97	6.18	7.61	14.45
KH K25			6858	5328	6880	6418	8144	7976
HKH 329*			6293	5334	7407	6389	7971	7243
HKH 330*			6250	5376	4451	6244	9451	7498
Prakash-C			4744	5604	5353	5554	6738	6768
CD at 5%			445.4	24.1	493.1	502.3	361.5	NS
CV (%)			8.76	0.53	9.72	9.70	5.31	17.77

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Nutrient levels	Plant Density	Genotypes	Stover yield (kg/ha)				Days to maturity	
			Arbhavi	Bahraich	Kolhapur	Vagarai	Bahraich	Kolhapur
150:65:80	60x20 cm	KH K25	4653	5631	9500	8844	148.0	94.3
		HKH 329*	7292	5790	6792	5697	151.3	93.0
		HKH 330*	6111	5855	12125	6203	148.7	92.3
		Prakash-C	2500	6047	11458	4518	153.7	90.7
	50x20 cm	KH K25	6667	5535	9500	7332	149.3	94.0
		HKH 329*	10278	5503	7750	7224	149.3	92.0
		HKH 330*	8194	5948	12583	8142	149.7	92.0
		Prakash-C	2535	5898	10667	5780	152.7	93.3
200:80:100	60x20 cm	KH K25	4875	6250	7750	7707	148.3	95.0
		HKH 329*	7167	6390	9125	8585	151.7	93.7
		HKH 330*	6833	6745	11125	9348	151.0	91.3
		Prakash-C	3333	6543	8708	7982	155.3	90.0
	50x20 cm	KH K25	5417	6018	10083	8735	149.7	95.3
		HKH 329*	8417	5973	8875	7960	151.3	93.0
		HKH 330*	7250	6375	10667	8099	152.3	93.0
		Prakash-C	3375	6607	8333	8950	156.0	91.0
Mean of location			5931.0	6069.3	13032.8	7569.1	151.1	96.4
60x20 cm			6028	5776	10047	6717	150.3	92.7
50x20 cm			5833	6363	9333	8421	152.0	92.8
CD at 5%			NS	94.9	NS	1015.1	0.54	NS
CV (%)			12.17	1.26	44.61	10.80	0.29	0.16
150:65:80			5346	6156	9573	7361	151.0	92.5
200:80:100			6517	5982	9807	7778	151.3	93.0
CD at 5%			634.4	55.95	NS	NS	NS	NS
CV (%)			13.34	1.15	5.40	37.99	0.25	1.36
KH K25			5403	5859	9208	8154	148.8	94.7
HKH 329*			8288	5914	8135	7367	150.9	92.9
HKH 330*			7097	6231	11625	7948	150.4	92.2
Prakash-C			2936	6274	9792	6808	154.4	91.3
CD at 5%			606.9	49.48	1494.1	NS	0.62	0.77
CV (%)			12.14	0.97	18.30	21.23	0.49	0.99

Contd…..

Nutrient levels	Plant Density	Genotypes	Plants ('000/ha)					
			Arbhavi	Bahraich	Banswara	Kolhapur	Ludhiana	Vagarai
150:65:80	60x20 cm	KH K25	62.2	82.7	82.7	66.7	81.3	55.6
		HKH 329*	60.4	82.5	83.3	68.6	81.3	57.4
		HKH 330*	67.0	82.8	79.6	70.0	79.9	62.0
		Prakash-C	66.7	82.7	81.5	69.4	80.6	41.7
	50x20 cm	KH K25	75.3	99.5	111.1	88.3	104.2	58.8
		HKH 329*	73.3	99.6	111.1	89.4	100.0	55.6
		HKH 330*	75.7	99.4	107.0	89.7	100.7	58.8
		Prakash-C	72.6	99.4	108.9	88.6	101.4	41.2
200:80:100	60x20 cm	KH K25	80.8	82.8	82.7	70.6	81.3	63.9
		HKH 329*	75.8	82.7	83.3	68.6	82.6	73.3
		HKH 330*	77.5	82.7	79.6	73.3	79.9	70.6
		Prakash-C	79.2	82.6	81.5	66.7	78.5	63.3
	50x20 cm	KH K25	86.3	99.5	111.1	90.0	99.3	68.3
		HKH 329*	82.9	99.5	111.1	89.7	100.7	66.1
		HKH 330*	91.7	99.5	107.0	90.3	102.8	59.4
		Prakash-C	91.7	99.3	108.9	91.7	100.7	57.8
Mean of location			76.2	91.1	95.7	80.4	90.9	59.6
60x20 cm			69.1	91.1	95.7	78.9	91.2	53.9
50x20 cm			83.2	91.1	95.7	80.1	90.7	65.4
CD at 5%			6.7	NS	NS	NS	NS	6.26
CV (%)			7.03	0.03	0.00	2.95	4.06	8.46
150:65:80			71.2	82.7	81.8	69.2	80.6	61.0
200:80:100			81.2	99.5	109.5	89.7	101.2	58.3
CD at 5%			3.9	0.02	0.37	5.60	2.0	NS
CV (%)			6.40	0.02	0.48	8.80	2.69	12.21
KH K25			76.2	91.1	96.9	78.9	91.5	61.6
HKH 329*			73.1	91.1	97.2	79.1	91.2	63.1
HKH 330*			78.0	91.1	93.3	80.8	90.8	62.7
Prakash-C			77.5	91.0	95.2	79.1	90.3	51.0
CD at 5%			NS	0.06	1.03	NS	NS	4.54
CV (%)			6.15	0.08	1.27	3.68	2.99	9.03

Contd…..

Nutrient levels	Plant Density	Genotypes	Cobs ('000/ha)					
			Arbhavi	Bahraich	Banswara	Kolhapur	Ludhiana	Vagarai
150:65:80	60x20 cm	KH K25	59.4	82.3	117.8	68.1	84.0	50.5
		HKH 329*	59.4	82.3	125.9	70.3	84.0	50.9
		HKH 330*	63.5	82.4	76.7	71.4	82.6	59.7
		Prakash-C	63.2	81.9	103.3	70.8	82.6	39.4
	50x20 cm	KH K25	75.0	98.3	127.8	90.3	103.5	55.1
		HKH 329*	72.6	98.5	143.3	90.8	99.3	50.5
		HKH 330*	70.5	98.8	101.5	91.9	100.0	53.2
		Prakash-C	64.9	98.6	123.0	89.4	100.7	36.6
200:80:100	60x20 cm	KH K25	78.3	82.4	117.8	71.4	83.3	58.9
		HKH 329*	72.1	82.4	125.9	69.4	85.4	63.9
		HKH 330*	70.0	82.2	76.7	73.9	83.3	65.6
		Prakash-C	71.3	82.1	103.3	66.9	82.6	57.8
	50x20 cm	KH K25	80.8	98.5	127.8	90.6	98.6	57.2
		HKH 329*	80.4	98.6	143.3	90.3	100.0	61.7
		HKH 330*	80.4	98.7	101.5	90.8	102.1	54.4
		Prakash-C	81.7	98.5	123.0	91.7	100.0	53.3
Mean of location			71.5	90.4	114.9	81.2	92.0	54.3
60x20 cm			66.1	90.4	114.9	80.4	92.1	49.5
50x20 cm			76.9	90.4	114.9	80.6	91.9	59.1
CD at 5%			2.7	NS	NS	NS	NS	5.78
CV (%)			3.07	0.38	0.00	3.52	2.67	8.57
150:65:80			67.1	82.3	105.9	70.3	83.5	55.8
200:80:100			75.8	98.6	123.9	90.7	100.5	52.8
CD at 5%			4.0	0.16	9.87	4.93	1.6	NS
CV (%)			7.03	0.22	10.72	7.65	2.17	11.11
KH K25			73.4	90.4	122.8	80.1	92.4	55.4
HKH 329*			71.1	90.5	134.6	80.2	92.2	56.7
HKH 330*			71.1	90.5	89.1	82.0	92.0	58.2
Prakash-C			70.3	90.3	113.2	79.7	91.5	46.8
CD at 5%			NS	NS	6.42	NS	NS	4.39
CV (%)			4.92	0.27	6.63	3.54	2.71	9.59

Contd…..

Nutrient levels	Plant Density	Genotypes	Plant height (cm)						
			Arbhavi	Bahraich	Banswara	Karimnagar	Kolhapur	Ludhiana	Vagarai
150:65:80	60x20 cm	KH K25	162.0	103.7	196.7	233.3	169.0	168.3	187.6
		HKH 329*	147.3	107.0	195.0	228.5	170.0	160.0	184.8
		HKH 330*	159.0	112.7	202.0	239.2	162.7	170.0	186.5
		Prakash-C	138.3	113.0	201.7	220.7	158.0	152.7	186.9
	50x20 cm	KH K25	166.7	105.3	217.0	245.5	173.3	170.7	190.0
		HKH 329*	153.7	107.7	200.3	240.3	160.0	164.7	163.1
		HKH 330*	162.3	113.7	223.3	248.5	164.0	172.7	180.3
		Prakash-C	151.3	113.7	195.7	222.0	169.7	154.3	180.3
200:80:100	60x20 cm	KH K25	168.7	103.0	196.7	236.5	172.7	177.0	184.4
		HKH 329*	148.0	105.3	195.0	238.0	175.0	164.0	188.7
		HKH 330*	155.7	111.3	202.0	249.8	160.0	175.3	186.4
		Prakash-C	144.0	112.0	201.7	233.0	156.0	160.3	184.3
	50x20 cm	KH K25	168.0	103.0	217.0	249.0	161.0	181.7	197.5
		HKH 329*	146.7	106.0	200.3	250.5	178.7	165.0	180.8
		HKH 330*	165.7	111.7	223.3	251.2	158.7	177.7	181.3
		Prakash-C	144.3	112.3	195.7	234.8	170.0	163.0	175.7
Mean of location			155.1	108.8	204.0	238.8	176.1	167.3	183.7
60x20 cm			155.1	109.6	204.0	234.8	165.8	164.2	182.4
50x20 cm			155.1	108.1	204.0	242.9	166.5	170.5	184.9
CD at 5%			NS	0.00	NS	NS	NS	NS	NS
CV (%)			5.82	0.00	0.00	8.50	2.26	3.07	6.97
150:65:80			152.9	108.5	198.8	234.9	165.4	166.0	186.2
200:80:100			157.3	109.2	209.1	242.7	166.9	168.7	181.1
CD at 5%			NS	0.37	6.64	NS	NS	NS	NS
CV (%)			7.22	0.42	4.06	5.48	1.43	2.33	5.60
KH K25			166.3	103.8	206.8	241.1	169.0	174.4	189.9
HKH 329*			148.9	106.5	197.7	239.3	170.9	163.4	179.4
HKH 330*			160.7	112.3	212.7	247.2	161.3	173.9	183.6
Prakash-C			144.5	112.8	198.7	227.6	163.4	157.6	181.8
CD at 5%			8.5	0.56	9.43	10.7	6.72	4.9	6.14
CV (%)			6.49	0.61	5.49	5.32	4.80	3.49	3.97

Contd…..

Nutrient levels	Plant Density	Genotypes	Days to 50% silking						
			Arbhavi	Bahraich	Banswara	Karimnagar	Kolhapur	Ludhiana	Vagarai
150:65:80	60x20 cm	KH K25	78.3	148.0	92.0	70.3	58.0	76.3	51.3
		HKH 329*	80.7	151.3	94.0	73.7	58.3	76.3	52.3
		HKH 330*	82.0	148.7	86.0	76.0	59.0	77.7	52.7
		Prakash-C	76.0	153.7	88.0	69.0	60.0	74.0	50.0
	50x20 cm	KH K25	78.3	149.3	92.0	70.0	58.3	77.7	52.3
		HKH 329*	79.7	149.3	94.0	77.0	58.7	78.0	52.7
		HKH 330*	80.3	149.7	86.0	75.3	58.7	78.3	52.7
		Prakash-C	76.7	152.7	88.0	69.0	59.7	75.3	50.7
200:80:100	60x20 cm	KH K25	78.3	148.3	92.0	69.3	58.3	75.0	52.3
		HKH 329*	81.3	151.7	94.0	73.7	58.7	76.7	52.0
		HKH 330*	82.3	151.0	86.0	74.3	58.3	75.7	52.7
		Prakash-C	74.0	155.3	88.0	68.0	59.3	74.7	49.7
	50x20 cm	KH K25	78.7	149.7	92.0	68.7	58.0	76.0	51.0
		HKH 329*	81.3	151.3	94.0	73.3	58.3	78.3	53.3
		HKH 330*	81.3	152.3	86.0	70.6	58.7	77.0	53.3
		Prakash-C	75.0	156.0	88.0	68.3	59.3	76.0	49.3
Mean of location			79.0	151.1	90.0	71.7	60.3	76.4	51.8
60x20 cm			79.0	150.3	90.0	72.5	58.8	76.7	51.8
50x20 cm			79.0	152.0	90.0	70.8	58.6	76.2	51.7
CD at 5%			NS	0.54	-	1.41	NS	NS	NS
CV (%)			1.28	0.29	-	1.59	0.49	2.18	4.66
150:65:80			79.1	151.0	90.0	71.8	58.8	75.8	51.6
200:80:100			78.9	151.3	90.0	71.5	58.7	77.1	51.9
CD at 5%			NS	NS	-	NS	NS	NS	NS
CV (%)			1.39	0.25	-	0.96	0.78	2.48	1.76
KH K25			78.4	148.8	92.0	69.6	58.2	76.3	51.8
HKH 329*			80.8	150.9	94.0	74.4	58.5	77.3	52.6
HKH 330*			81.5	150.4	86.0	74.1	58.7	77.2	52.8
Prakash-C			75.4	154.4	88.0	68.6	59.6	75.0	49.9
CD at 5%			0.77	0.62	-	1.32	0.59	1.03	0.99
CV (%)			1.15	0.49	-	2.19	1.20	1.59	2.27

Contd…..

Nutrient levels	Plant Density	Genotypes	Test weight (g)			
			Bahraich	Karimnagar	Kolhapur	Vagarai
150:65:80	60x20 cm	KH K25	213.3	264.0	309.3	370.0
		HKH 329*	216.7	290.7	349.0	323.3
		HKH 330*	222.3	268.0	344.0	326.7
		Prakash-C	226.7	278.7	405.0	300.0
	50x20 cm	KH K25	212.0	271.3	391.3	326.7
		HKH 329*	215.3	288.0	336.3	340.0
		HKH 330*	218.3	278.7	312.3	343.3
		Prakash-C	225.0	289.3	315.7	313.3
200:80:100	60x20 cm	KH K25	215.3	280.0	374.3	340.0
		HKH 329*	223.0	300.0	348.7	356.7
		HKH 330*	225.3	274.0	358.7	366.7
		Prakash-C	230.3	277.3	332.0	350.0
	50x20 cm	KH K25	215.0	280.0	336.7	356.7
		HKH 329*	219.7	289.3	357.0	343.3
		HKH 330*	223.7	282.7	392.7	340.0
		Prakash-C	228.3	264.0	365.0	353.3
Mean of location			220.6	281.5	350.3	34.1
60x20 cm			218.7	278.6	345.4	330.4
50x20 cm			222.6	284.4	358.1	350.8
CD at 5%			2.34	NS	NS	NS
CV (%)			0.86	5.92	8.96	8.25
150:65:80			221.6	279.1	352.6	341.7
200:80:100			219.7	283.9	350.9	339.6
CD at 5%			0.48	NS	NS	NS
CV (%)			0.27	4.91	2.18	7.85
KH K25			213.9	273.8	352.9	348.3
HKH 329*			218.7	292	347.8	340.8
HKH 330*			222.4	275.8	351.9	344.2
Prakash-C			227.6	284.3	354.4	329.2
CD at 5%			0.64	NS	NS	NS
CV (%)			0.34	7.37	7.89	5.72

Contd…..

Nutrient levels	Plant Density	Genotypes	Net return (Rs/ha)			BC ratio	
			Arbhavi	Bahraich	Ludhiana	Arbhavi	Ludhiana
150:65:80	60x20 cm	KH K25	28967	50568	49902	1.98	1.0
		HKH 329*	23400	51450	34346	1.79	0.68
		HKH 330*	25633	54208	53268	1.87	1.05
		Prakash-C	18400	56420	31617	1.62	0.62
	50x20 cm	KH K25	50700	48512	55031	2.62	1.06
		HKH 329*	40167	47570	70315	2.28	1.36
		HKH 330*	36900	49788	84506	2.18	1.63
		Prakash-C	15233	53378	38929	1.49	0.75
200:80:100	60x20 cm	KH K25	33067	48329	47269	2.12	0.86
		HKH 329*	32267	60220	40719	2.09	0.74
		HKH 330*	29100	57238	66555	1.98	1.21
		Prakash-C	14633	57600	31167	1.49	0.57
	50x20 cm	KH K25	39733	54411	61404	2.27	1.10
		HKH 329*	34033	53130	59130	2.09	1.06
		HKH 330*	36600	56402	77779	2.17	1.39
		Prakash-C	19700	58197	38206	1.63	0.68
Mean of location			29908.3	53588.9	52508.8	1.98	0.99
60x20 cm			29925	51487	52239	1.98	1.02
50x20 cm			29892	55691	52778	1.98	0.95
CD at 5%			NS	4023.60	NS	NS	NS
CV (%)			24.12	6.04	22.06	11.95	22.47
150:65:80			25683	54504	44355	1.87	0.84
200:80:100			34133	52674	60663	2.09	1.13
CD at 5%			6751.9	NS	6454.3	0.22	0.12
CV (%)			28.17	7.35	15.34	13.93	15.19
KH K25			38117	50455	53402	2.25	1.00
HKH 329*			32467	53093	51127	2.06	0.96
HKH 330*			32058	54409	70527	2.05	1.32
Prakash-C			16992	56399	34980	1.56	0.66
CD at 5%			4449.2	4186.45	4735.6	0.15	0.09
CV (%)			17.66	9.27	10.70	8.72	10.88

Contd…..

Nutrient levels	Plant Density	Genotypes	Gross return (Rs.)	cost of cultivation (Rs.)	Net Returns (Rs.)	BC ratio
			Vagarai			
150:65:80	60x20 cm	KH K25	116496	65215	51281	1.8
		HKH 329*	82611	65215	17396	1.3
		HKH 330*	87460	65215	22245	1.3
		Prakash-C	73703	65215	8488	1.1
	50x20 cm	KH K25	89404	67023	22381	1.3
		HKH 329*	88352	67023	21329	1.3
		HKH 330*	91740	67023	24717	1.4
		Prakash-C	69312	67023	2289	1.0
200:80:100	60x20 cm	KH K25	97184	65215	31969	1.5
		HKH 329*	111151	65215	45936	1.7
		HKH 330*	118230	65215	53015	1.8
		Prakash-C	103988	65215	38773	1.6
	50x20 cm	KH K25	111691	67023	44668	1.7
		HKH 329*	94494	67023	27471	1.4
		HKH 330*	92441	67023	25418	1.4
		Prakash-C	104934	67023	37911	1.6

Mean of location

150:65:80	87385	66119	21266	1.32
200:80:100	104264	66119	38145	1.58

60x20 cm	98853	65215	33638	1.52
50x20 cm	92796	67023	25773	1.38

KH K25	103694	66119	37575	1.57
HKH 329*	94152	66119	28033	1.42
HKH 330*	97468	66119	31349	1.48
Prakash-C	87984	66119	21865	1.33

Table 7: Relative performance of pre-release early maturity genotype under varying planting density and nutrients levels in zone II.

N. level	Genotypes	Grain yield (kg/ha)			Stover yield (kg/ha)	Plants ('000/ha)		Cobs ('000/ha)	
		Delhi	Karnal	Pantnagar	Pantnagar	Karnal	Pantnagar	Delhi	Pantnagar
150:65:65	KH K25	6889	5720	6859	17393	63.8	61.5	70.4	62.4
	HKH 329*	5674	6797	7192	11966	63.5	63.2	63.0	63.2
	HKH 330*	7274	7193	4904	13419	64.3	59.0	65.9	59.0
	Prakash-C	5303	6370	4525	11410	64.1	62.4	60.7	64.1
200:80:80	KH K25	9200	6003	7167	18804	64.7	60.7	77.8	62.4
	HKH 329*	6548	7013	7474	12393	62.9	59.8	66.7	59.8
	HKH 330*	7518	7517	6058	14145	63.4	63.2	71.9	63.2
	Prakash-C	7030	6880	5181	11795	63.4	61.5	77.0	61.5
250:95:95	KH K25	6922	6146	7062	19658	63.2	65.0	67.4	65.0
	HKH 329*	6274	7205	7551	12607	63.7	59.8	72.6	59.8
	HKH 330*	7600	7800	6410	14274	62.7	63.2	76.3	64.1
	Prakash-C	6489	7080	5582	12222	62.7	60.7	65.2	62.4
Location mean		6893.2	6810.3	6330.5	14173.8	63.5	61.7	69.6	62.3
C.D.(5%) AiBj-AiBk		2708.7	698.4	1425.0	3022.4	2.3	7.2	23.6	6.5
C.D.(5%) AiBk-AjBk		3218.1	777.3	1509.9	2968.0	2.5	9.2	20.8	8.8
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
150:65:65		6285	6520	5870	13547	63.9	61.5	65.0	62.2
200:80:80		7574	6853	6470	14284	63.6	61.3	73.3	61.8
250:95:95		6821	7057	6652	14690	63.1	62.2	70.4	62.8
C.D. (5%) Ai-Aj		2423.5	499.0	890.5	1436.0	1.6	6.9	4.0	6.9
C.V. (%) Error A		16.3	6.5	12.4	8.9	2.3	9.8	2.6	9.8
F (5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	s	n.s.
KH K25		7670	5956	7029	18618	63.9	62.4	71.9	63.2
HKH 329*		6165	7005	7406	12322	63.4	61.0	67.4	61.0
HKH 330*		7464	7503	5791	13946	63.5	61.8	71.4	62.1
Prakash-C		6274	6777	5096	11809	63.4	61.5	67.7	62.7
C.D. (5%) Bi-Bj		1563.9	403.2	822.7	1745.0	1.3	4.1	13.6	3.7
C.V. (%) ErrorB		17.4	6.0	13.1	12.4	2.1	6.8	15.0	6.1
F (5%)		n.s.	s	s	s	n.s.	n.s.	n.s.	n.s.

Contd…..

N. level	Genotypes	Plant height (cm)			Days to 50% silking		100 grain weight (g)	
		Delhi	Karnal	Pantnagar	Karnal	Pantnagar	Delhi	Pantnagar
150:65:65	KH K25	153.3	140.0	150.2	130.0	124.7	25.5	25.9
	HKH 329*	149.2	135.0	124.1	132.0	125.7	26.3	27.6
	HKH 330*	173.6	150.0	143.3	135.0	125.3	24.3	26.2
	Prakash-C	139.9	150.0	130.9	129.0	120.7	25.9	25.4
200:80:80	KH K25	165.4	158.3	153.3	129.0	124.3	25.2	27.2
	HKH 329*	167.2	145.0	126.5	130.0	125.7	25.6	29.2
	HKH 330*	166.2	157.7	149.2	133.3	125.7	26.3	28.1
	Prakash-C	141.9	155.0	134.2	128.3	120.3	26.8	26.3
250:95:95	KH K25	159.5	161.7	154.0	128.0	124.3	23.2	27.8
	HKH 329*	154.5	146.7	127.4	129.7	125.7	27.1	30.1
	HKH 330*	194.6	158.3	150.1	133.0	125.3	26.4	28.3
	Prakash-C	140.4	158.3	135.5	127.7	120.3	21.4	26.5
Location mean		158.8	151.3	139.9	130.4	124.0	25.3	27.4
C.D.(5%) AiBj-AiBk		25.5	8.6	6.8	1.9	1.0	4.1	1.4
C.D.(5%) AiBk-AjBk		33.1	8.0	6.0	2.0	1.1	6.0	1.4
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
150:65:65		154.0	143.8	137.2	131.5	124.1	25.5	26.3
200:80:80		160.2	154.0	140.8	130.2	124.0	26.0	27.7
250:95:95		162.3	156.3	141.8	129.6	123.9	24.5	28.2
C.D. (5%) Ai-Aj		26.9	3.0	1.4	1.2	0.7	5.2	0.7
C.V. (%) Error A		7.9	1.8	0.9	0.8	0.5	9.6	2.3
F (5%)		n.s.	s	s	s	n.s.	n.s.	s
KH K25		159.4	153.3	152.5	129.0	124.4	24.6	26.9
HKH 329*		157.0	142.2	126.0	130.6	125.7	26.4	29.0
HKH 330*		178.1	155.3	147.5	133.8	125.4	25.7	27.5
Prakash-C		140.7	154.4	133.6	128.3	120.4	24.7	26.1
C.D. (5%) Bi-Bj		14.7	4.9	3.9	1.1	0.6	2.4	0.8
C.V. (%) ErrorB		7.1	3.3	2.8	0.8	0.5	7.2	2.9
F (5%)		s	s	s	s	s	n.s.	s

Contd…..

N. level	Genotypes	Gross profit (Rs/ha)	Net profit (Rs/ha)	BC ratio	
		Pantnagar	Pantnagar	Pantnagar	Karnal
150:65:65	KH K25	89853	48138	1.15	2.1
	HKH 329*	94219	52504	1.26	2.5
	HKH 330*	64241	22526	0.54	2.6
	Prakash-C	59272	17557	0.42	2.4
200:80:80	KH K25	93883	50396	1.16	2.1
	HKH 329*	97914	54427	1.25	2.5
	HKH 330*	79356	35869	0.82	2.6
	Prakash-C	67879	24392	0.56	2.4
250:95:95	KH K25	92512	47235	1.05	2.1
	HKH 329*	98922	53645	1.18	2.4
	HKH 330*	83974	38697	0.85	2.6
	Prakash-C	73127	27850	0.62	2.4

Location mean	82929.3	39436.3	0.91	2.4
C.D.(5%) AiBj-AiBk	18668.0	18668.0	0.43	0.2
C.D.(5%) AiBk-AjBk	19778.5	19778.5	0.46	0.3
F(5%)	n.s.	n.s.	n.s.	n.s.

150:65:65	76896	35181	0.84	2.4
200:80:80	84758	41271	0.95	2.4
250:95:95	87134	41857	0.93	2.4

C.D. (5%) Ai-Aj	11662.6	11662.6	0.27	0.2
C.V. (%) Error A	12.4	26.1	26.47	5.9
F (5%)	n.s.	n.s.	n.s.	n.s.

KH K25	92083	48590	1.12	2.1
HKH 329*	97018	53525	1.23	2.5
HKH 330*	75857	32364	0.74	2.6
Prakash-C	66759	23266	0.53	2.4

C.D. (5%) Bi-Bj	10777.9	10777.9	0.25	0.1
C.V. (%) ErrorB	13.1	27.6	27.88	5.6
F (5%)	s	s	s	s

Table 8: Performance of pre-release baby corn genotypes under varying planting density and nutrients level at Dholi.

Genotypes	Plant density	Nutrient levels	Baby corn yield without husk (kg/ha)	Baby corn yield with husk (kg/ha)	Green fodder yield (kg/ha)	Plants ('000/ha)	Days of 1st picking	No. of picking
150:50:60	60x 20 cm	Vivek Hybreds-27	1226	2351	26379	52.0	51.3	6.0
		HM4-C	1117	2833	28730	57.6	52.3	6.3
		Seed Tech2324-Filler	990	2233	30219	51.1	58.7	4.7
		HQPM-4-Filler	1311	2048	30625	57.6	51.7	5.0
	50x20 cm	Vivek Hybreds-27	1444	3333	27997	69.6	52.3	6.0
		HM4-C	1633	4021	30063	74.7	51.7	6.0
		Seed Tech2324-Filler	1166	3377	32552	72.9	58.3	5.0
		HQPM-4-Filler	1611	3388	31130	73.8	51.3	5.0
200:60:80	60x 20 cm	Vivek Hybreds-27	1311	2255	28663	69.3	55.3	6.7
		HM4-C	1155	2910	30063	73.6	53.7	6.7
		Seed Tech2324-Filler	1333	2344	30685	73.6	60.7	5.0
		HQPM-4-Filler	1688	2388	31707	72.2	53.7	5.3
	50x20 cm	Vivek Hybreds-27	1635	3761	28330	64.0	54.7	6.3
		HM4-C	1422	3733	30219	65.6	54.7	7.0
		Seed Tech2324-Filler	1437	3201	33552	51.8	61.3	5.3
		HQPM-4-Filler	1866	3479	34774	46.0	54.7	5.0
Mean of location			1396.5	2978.4	30355.5	64.1	54.8	5.7
150:50:60			1312	2948	29712	66.1	53.5	5.5
200:60:80			1481	3009	30999	64.5	56.1	5.9
CD at 5%			NS	NS	199.61	NS	0.62	0.18
CV (%)			31.81	13.21	0.53	6.13	0.91	2.53
60x20 cm			1266	2420	29634	65.9	54.7	5.7
50x20 cm			1526.7	3536.7	31077.0	64.8	54.9	5.7
CD at 5%			127.52	231.71	970.09	NS	NS	NS
CV (%)			11.39	9.71	3.99	9.38	1.90	4.38
Vivek Hybreds-27			1404	2925	27842	68.7	53.4	6.3
HM4-C			1332	3374	29769	67.8	53.1	6.5
Seed Tech2324-Filler			1232	2789	31752	62.3	59.8	5.0
HQPM-4-Filler			1619	2826	32059	62.4	52.8	5.1
CD at 5%			192.25	239.36	701.67	NS	0.72	0.34
CV (%)			16.34	9.54	2.74	11.86	1.57	7.00

Table 9: Effect of tillage practices and nutrient management on wheat crop in maize-wheat-green gram cropping systems at Pantnagar.

Tillage practices	Nutrient levels	Wheat yield (kg/ha)	Stover yield (kg/ha)	No. of tillers/m^2	Plant height (cm)	100-grain weight	Gross profit (Rs/ha)	Net profit (Rs/ha)	BC ratio
Zero tillage	FFP	4078	4078	170.0	69.9	3.6	37619	14223	0.61
	SSNM	4393	4393	206.7	72.7	3.7	39714	17939	0.82
	RDF	4694	4694	253.3	73.3	3.9	42694	18843	0.79
Conventional tillage	FFP	6016	6016	338.3	75.1	4.1	61947	34618	1.27
	SSNM	6300	6300	361.7	74.5	4.2	64364	38656	1.50
	RDF	6383	6383	366.7	77.9	4.3	66056	38272	1.38
Permanent bed	FFP	4976	4976	265.0	72.2	4.0	49369	18698	0.61
	SSNM	5746	5746	305.0	75.0	4.0	54893	25843	0.89
	RDF	5913	5913	310.0	76.7	4.1	56849	25723	0.83
Location mean		5388.7	5388.7	286.3	74.1	4.0	52611.7	25868.4	0.97
C.D.(5%) AiBj-AiBk		817.3	817.3	62.5	3.1	0.2	7382.5	7382.5	0.28
C.D.(5%) AiBk-AjBk		903.2	903.2	67.5	3.5	0.2	6679.6	6679.6	0.25
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
Zero tillage		4388	4388	210.0	71.9	3.7	40009	17002	0.74
Conventional tillage		6233	6233	355.6	75.8	4.2	64122	37182	1.38
Permanent bed		5545	5545	293.3	74.6	4.0	53704	23421	0.77
C.D. (5%) Ai-Aj		618.1	618.1	44.8	2.5	0.2	2937.9	2937.9	0.10
C.V. (%) Error A		8.8	8.8	12.0	2.6	3.3	4.3	8.7	8.28
F (5%)		s	s	s	s	s	s	s	s
FFP		5023	5023	257.8	72.4	3.9	49645	22513	0.83
SSNM		5480	5480	291.1	74.1	4.0	52990	27479	1.17
RDF		5663	5663	310.0	76.0	4.1	55200	27613	1.00
C.D. (5%) Bi-Bj		471.8	471.8	36.1	1.8	0.1	4262.3	4262.3	0.16
C.V. (%) ErrorB		8.5	8.5	12.3	2.3	2.3	7.9	16.0	16.54
F (5%)		s	s	s	s	s	s	s	s

Treatment details:

Main plot: Tillage practices

T_1: Zero tillage (ZT)

T_2: Conventional tillage (CT)

T_3: Permanent Beds (PB)

Sub plot: Nutrient levels (N-P2O5-K2 /ha)

N_1: Farmer's practice (116:64:32)

N_2: SSNM based on nutrient expert (110:15:64)

N_3: 100% RDF (150:60:40)

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Tillage practices	Nutrient levels	N uptake (kg/ha)			P uptake (kg/ha)			K uptake (kg/ha)		
		Grain	Stover	Total	Grain	Stover	Total	Grain	Stover	Total
Zero tillage	FFP	35.5	11.6	47.2	6.0	4.6	10.6	25.5	48.3	73.8
	SSNM	37.9	13.4	51.3	6.5	4.9	11.4	28.2	54.1	82.3
	RDF	41.6	14.2	55.7	7.2	5.7	12.8	30.0	56.9	86.9
Conventional tillage	FFP	61.8	19.8	81.7	10.2	7.1	17.2	44.9	75.5	120.4
	SSNM	66.2	23.2	89.5	10.9	7.6	18.5	48.2	84.7	132.9
	RDF	68.9	24.6	93.4	11.3	8.0	19.4	46.9	83.5	130.4
Permanent bed	FFP	48.8	14.9	63.6	7.8	5.6	13.4	35.3	58.6	93.9
	SSNM	56.8	20.4	77.1	8.8	6.6	15.4	40.2	74.5	114.7
	RDF	59.9	22.5	82.4	9.2	7.3	16.5	40.7	74.0	114.7
Location mean		53.1	18.3	71.3	8.7	6.4	15.0	37.8	67.8	105.6
C.D.(5%) AiBj-AiBk		9.3	7.4	13.8	1.5	1.5	2.3	8.7	13.7	19.0
C.D.(5%) AiBk-AjBk		7.8	11.2	15.0	1.5	1.4	2.3	10.4	13.3	18.7
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
Zero tillage		38.3	13.1	51.4	6.6	5.0	11.6	27.9	53.1	81.0
Conventional tillage		65.7	22.5	88.2	10.8	7.6	18.4	46.7	81.2	127.9
Permanent bed		55.2	19.2	74.4	8.6	6.5	15.1	38.7	69.1	107.8
C.D. (5%) Ai-Aj		1.5	9.5	10.1	0.9	0.7	1.3	7.7	7.3	10.6
C.V. (%) Error A		2.2	39.6	10.8	8.4	8.1	6.6	15.5	8.2	7.7
F (5%)		s	n.s.	s	s	s	s	s	s	s
FFP		48.7	15.4	64.2	8.0	5.8	13.8	35.3	60.8	96.1
SSNM		53.6	19.0	72.6	8.7	6.4	15.1	38.9	71.1	110.0
RDF		56.8	20.4	77.2	9.2	7.0	16.2	39.2	71.5	110.7
C.D. (5%) Bi-Bj		5.4	4.3	8.0	0.8	0.9	1.3	5.0	7.9	11.0
C.V. (%) ErrorB		9.9	22.7	10.9	9.5	13.7	8.6	13.0	11.4	10.1
F (5%)		s	n.s.	s	s	s	s	n.s.	s	s

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

Tillage practices	Nutrient levels	Wheat yield (kg/ha)	Tillers/ m^2	Plants/ m^2	Days of flowering	Days of maturity	No. of Spikelet's	Plant height (cm)	Spike length (cm)
Zero tillage	RDF	3266	213.3	35.3	97.3	122.3	33.0	71.1	9.2
	SSNM	2933	245.0	35.3	97.3	122.3	32.7	72.9	9.9
	FFP	2799	183.7	37.7	97.0	122.7	33.0	75.3	10.0
Conventional tillage	RDF	3532	336.7	48.0	96.0	121.3	33.3	74.5	10.3
	SSNM	3099	306.0	46.0	96.0	121.3	40.3	71.5	10.5
	FFP	3199	282.3	40.7	96.3	121.7	30.3	76.0	10.0
Permanent bed	RDF	3666	108.7	20.3	99.7	124.7	32.3	68.6	10.1
	SSNM	3199	245.7	35.3	100.0	124.3	29.7	64.5	9.9
	FFP	3533	130.3	24.3	100.0	124.0	33.0	69.4	9.7
Location mean		3247.4	228.0	35.9	97.7	122.7	33.1	71.5	10.0
C.D.(5%) AiBj-AiBk		344.4	141.6	19.8	1.5	2.5	7.5	8.6	1.6
C.D.(5%) AiBk-AjBk		448.7	134.2	18.4	1.9	2.5	7.8	7.9	1.5
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
Zero tillage		2999	214.0	36.1	97.2	122.4	32.9	73.1	9.7
Conventional tillage		3277	308.3	44.9	96.1	121.4	34.7	74.0	10.3
Permanent bed		3466	161.6	26.7	99.9	124.3	31.7	67.5	9.9
C.D. (5%) Ai-Aj		353.8	69.5	8.8	1.4	1.6	4.9	3.6	0.8
C.V. (%) Error A		8.3	23.3	18.8	1.1	1.0	11.3	3.8	6.4
F (5%)		n.s.	s	s	s	s	n.s.	s	n.s.
RDF		3488	219.6	34.6	97.7	122.8	32.9	71.4	9.9
SSNM		3077	265.6	38.9	97.8	122.7	34.2	69.6	10.1
FFP		3177	198.8	34.2	97.8	122.8	32.1	73.6	9.9
C.D. (5%) Bi-Bj		198.8	81.8	11.4	0.9	1.4	4.3	5.0	0.9
C.V. (%) ErrorB		6.0	34.9	31.0	0.9	1.1	12.8	6.8	9.0
F (5%)		s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

Treatment details:

Main plot: Tillage practices	**Sub plot: Nutrient levels**
T1: Zero tillage	F1: RDF (100:60:40)
T2: Conventional tillage	F2: SSNM (139:34.5:75)
T3: Permanent bed	F3: FFP (151:60:60)

Table 11: Nutrient management in maize-wheat-mungbean cropping system under different tillage practices at Dholi.

Tillage	Nutrient	Mungbean yield (kg/ha)	Days to reproductive stage	Plant height (cm)
Zero tillage	RDF	1444	53.0	33.2
	SSNM	2111	51.0	31.7
	FFP	1778	53.0	32.3
Conventional tillage	RDF	2222	52.0	35.0
	SSNM	2333	52.0	35.7
	FFP	2222	51.0	35.3
Permanent bed	RDF	1222	61.0	32.5
	SSNM	1111	56.7	32.3
	FFP	1333	58.3	30.2
Location mean		1752.9	54.2	33.1
C.D.(5%) AiBj-AiBk		708.1	4.6	1.5
C.D.(5%) AiBk-AjBk		914.6	4.6	1.9
F(5%)		n.s.	n.s.	s
Zero tillage		1778	52.3	32.4
Conventional tillage		2259	51.7	35.3
Permanent bed		1222	58.7	31.7
C.D. (5%) Ai-Aj		717.2	2.7	1.5
C.V. (%) Error A		31.3	3.7	3.4
F (5%)		s	s	s
RDF		1629	55.3	33.6
SSNM		1852	53.2	33.2
FFP		1778	54.1	32.6
C.D. (5%) Bi-Bj		408.8	2.7	0.9
C.V. (%) ErrorB		22.7	4.8	2.5
F (5%)		n.s.	n.s.	n.s.

Table 12: Effect of tillage practices and nutrient management on green gram in maize-wheat-green gram cropping systems at Pantnagar.

Tillage practices	Nutrient levels	Greengram yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	100-grain weight
Zero tillage	FFP	0.500	1149.7	392.2	57.0	0.2
	SSNM	0.500	1205.3	429.4	55.5	0.2
	RDF	0.333	1211.0	412.8	56.6	0.2
Conventional tillage	FFP	1.053	1316.7	417.2	51.3	0.1
	SSNM	0.833	1305.7	412.8	60.8	0.1
	RDF	0.830	1300.0	404.4	59.2	0.2
Permanent bed	FFP	4.920	1238.3	418.3	58.4	0.2
	SSNM	3.573	1262.0	421.4	55.7	0.2
	RDF	5.400	1222.3	419.0	58.3	0.1
Location mean		1.99	1245.7	414.2	57.0	0.2
C.D.(5%) AiBj-AiBk		0.64	220.0	35.6	8.7	0.1
C.D.(5%) AiBk-AjBk		0.81	236.3	65.9	9.1	0.1
F(5%)		s	n.s.	n.s.	n.s.	n.s.
Zero tillage		0.444	1188.7	411.5	56.3	0.2
Conventional tillage		0.906	1307.4	411.5	57.1	0.1
Permanent bed		4.631	1240.9	419.6	57.5	0.2
C.D. (5%) Ai-Aj		0.62	156.1	59.5	5.8	0.1
C.V. (%) Error A		23.82	9.6	11.0	7.7	29.9
F (5%)		s	n.s.	n.s.	n.s.	n.s.
FFP		2.158	1234.9	409.2	55.6	0.2
SSNM		1.636	1257.7	421.2	57.3	0.2
RDF		2.188	1244.4	412.1	58.0	0.2
C.D. (5%) Bi-Bj		0.37	127.0	20.6	5.0	0.1
C.V. (%) ErrorB		18.10	9.9	4.8	8.6	47.9
F (5%)		s	n.s.	n.s.	n.s.	n.s.

Treatment details:

Main plot: Tillage practices

T_1: Zero tillage (ZT)

T_2: Conventional tillage (CT)

T_3: Permanent Beds (PB)

Sub plot: Fertility levels (N-P2O5-K2 /ha)

N_1: Farmer's practice

N_2: SSNM based on nutrient expert

N_3: 100% RDF

Fertility treatments (N1, N2, and N3) were imposed in maize and wheat crop and green gram was fertilized with 20:40:20 kg N-P2O5-K2O /ha.

Fertility treatments [N1 (FFP), N2 (SSNM), and N3 (RDF)] were imposed in maize and wheat crop and green gram was fertilized with 20:40:20 kg N-P2O5-K2O /ha.

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Tillage practices	Nutrient levels	Maize equt. yield of MWGG cropping system (kg/ha)	Cost of cultivation of MWGG cropping system (Rs./ha)	Gross returns of (Rs./ha) MWGG cropping system *	Net returns of MWGG cropping system (Rs./ha)	B:C ratio of MWGG cropping system	N uptake by stover (kg/ha)	P uptake by stover (kg/ha)	K uptake by stover (kg/ha)
Zero tillage	FFP	7794	60604	102106	41502	0.68	10.3	1.20	9.17
	SSNM	9356	57672	122558	64886	1.12	11.0	1.03	9.90
	RDF	9739	62322	127583	65261	1.05	11.2	1.27	10.07
Conventional tillage	FFP	9118	75684	119450	43766	0.58	12.5	1.50	10.93
	SSNM	11913	72752	156068	83316	1.14	12.6	1.53	11.13
	RDF	12081	77402	158267	80865	1.05	12.5	1.43	11.23
Permanent bed	FFP	7657	72429	100302	27873	0.38	11.6	1.30	9.83
	SSNM	8953	69497	117283	47786	0.69	12.1	1.43	10.37
	RDF	8952	74147	117279	43132	0.58	11.8	1.53	9.83
Location mean		9507.1	69167.7	124544.0	55376.3	0.81	11.7	1.36	10.27
C.D.(5%) AiBj-AiBk		904.3	0.6	11849.8	11849.8	0.18	3.4	0.63	2.74
C.D.(5%) AiBk-AjBk		920.5	0.6	12059.5	12059.5	0.18	3.1	0.67	3.55
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
Zero tillage		8963	60199	117415	57216	0.95	10.8	1.17	9.71
Conventional tillage		11038	75279	144595	69316	0.92	12.5	1.49	11.10
Permanent bed		8521	72024	111621	39597	0.55	11.8	1.42	10.01
C.D. (5%) Ai-Aj		559.3	0.4	7324.8	7324.8	0.11	1.5	0.43	2.78
C.V. (%) Error A		4.5	0.0	4.5	10.1	10.04	9.6	24.01	20.71
F (5%)		s	s	s	s	s	n.s.	n.s.	n.s.
FFP		8190	69572	107286	37714	0.55	11.5	1.33	9.98
SSNM		10074	66640	131970	65329	0.98	11.9	1.33	10.47
RDF		10258	71290	134376	63086	0.89	11.8	1.41	10.38
C.D. (5%) Bi-Bj		522.1	0.3	6841.5	6841.5	0.10	1.9	0.37	1.58
C.V. (%) ErrorB		5.3	0.0	5.3	12.0	12.25	16.2	26.15	15.00
F (5%)		s	s	s	s	s	n.s.	n.s.	n.s.

Note: Equt. yield=Equivalent yield, MWGG: Maize-Wheat-Greengram

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Tillage practices	Nutrient levels	Residual soil organic carbon (%) after completion of three year cropping sequence	Residual soil available N (kg/ha) after completion of three year cropping sequence	Residual soil available P (kg/ha) after completion of three year cropping sequence	Residual soil available K (kg/ha)after completion of three year cropping sequence	Soil pH after completion of three year cropping sequence	Soil Bulk density (Mg/m3) at 0-15 cm depth after completion of three year cropping sequence
Zero tillage	FFP	0.75	241.0	19.3	245.0	7.13	1.43
	SSNM	0.89	250.0	17.1	254.0	7.00	1.41
	RDF	0.85	257.0	22.3	247.0	7.17	1.42
Conventional tillage	FFP	0.64	194.0	18.4	226.0	7.03	1.37
	SSNM	0.71	205.0	16.2	248.0	7.03	1.39
	RDF	0.73	214.0	21.1	245.0	7.10	1.41
Permanent bed	FFP	0.68	235.0	19.6	238.0	6.90	1.41
	SSNM	0.87	251.0	17.1	255.0	7.03	1.42
	RDF	0.89	258.0	22.3	253.0	7.10	1.40
Location mean		0.78	233.9	19.3	245.7	7.06	1.41
C.D.(5%) AiBj-AiBk		0.13	29.9	7.0	58.1	0.33	0.04
C.D.(5%) AiBk-AjBk		0.15	32.5	5.8	54.3	0.27	0.06
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
Zero tillage		0.83	249.3	19.6	248.7	7.10	1.42
Conventional tillage		0.69	204.3	18.6	239.7	7.06	1.39
Permanent bed		0.81	248.0	19.7	248.7	7.01	1.41
C.D. (5%) Ai-Aj		0.11	21.9	0.6	27.0	0.06	0.05
C.V. (%) Error A		10.96	7.1	2.4	8.4	0.67	2.64
F (5%)		n.s.	s	s	n.s.	s	n.s.
FFP		0.69	223.3	19.1	236.3	7.02	1.40
SSNM		0.82	235.3	16.8	252.3	7.02	1.41
RDF		0.82	243.0	21.9	248.3	7.12	1.41
C.D. (5%) Bi-Bj		0.08	17.2	4.1	33.5	0.19	0.02
C.V. (%) ErrorB		9.57	7.2	20.5	13.3	2.59	1.67
F (5%)		s	n.s.	n.s.	n.s.	n.s.	n.s.

Table 13: Nutrient management in maize-wheat-moongbean cropping system under different tillage practices at Dholi.

Tillage practices	Nutrient levels	Maize yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Days to 50% tasseling	Days to 50% silking	Days of 75% husk	Plant height (cm)
Zero tillage	RDF	5389	88.8	94.4	49.3	52.7	93.0	152.7
	SSNM	6008	89.6	95.2	50.0	53.3	92.0	159.7
	FFP	6467	89.2	94.6	51.0	54.0	93.3	162.7
Conventional tillage	RDF	5469	89.2	98.6	49.3	52.3	94.0	167.2
	SSNM	5848	89.2	99.8	51.0	54.0	94.3	162.7
	FFP	6507	89.4	101.6	51.3	54.3	94.3	165.4
Permanent bed	RDF	5429	88.4	105.2	49.0	52.3	92.3	171.3
	SSNM	5828	88.8	105.6	50.3	53.3	92.3	162.7
	FFP	6747	89.0	107.4	49.3	52.7	91.7	172.8
Location mean		5965.8	89.1	100.3	50.1	53.2	93.0	164.1
C.D.(5%) AiBj-AiBk		205.5	1.5	2.0	2.3	2.3	1.3	7.5
C.D.(5%) AiBk-AjBk		256.8	1.6	2.4	2.6	2.3	1.4	7.9
F(5%)		s	n.s.	n.s.	n.s.	n.s.	n.s.	s
Zero tillage		5955	89.2	94.7	50.1	53.3	92.8	158.3
Conventional tillage		5941	89.3	100.0	50.6	53.6	94.2	165.1
Permanent bed		6001	88.8	106.1	49.6	52.8	92.1	169.0
C.D. (5%) Ai-Aj		196.9	1.0	1.8	1.8	1.3	1.0	5.0
C.V. (%) Error A		2.5	0.9	1.4	2.8	1.9	0.8	2.3
F (5%)		n.s.	n.s.	s	n.s.	n.s.	s	s
RDF		5429	88.8	99.4	49.2	52.4	93.1	163.7
SSNM		5895	89.2	100.2	50.4	53.6	92.9	161.7
FFP		6574	89.2	101.2	50.6	53.7	93.1	167.0
C.D. (5%) Bi-Bj		118.7	0.9	1.1	1.3	1.3	0.7	4.3
C.V. (%) ErrorB		1.9	1.0	1.1	2.6	2.4	0.8	2.6
F (5%)		s	n.s.	s	n.s.	n.s.	n.s.	n.s.

Treatment details:

Main plot: Tillage practices	**Sub plot: Nutrient levels**
T1: Zero tillage	F1: RDF (100:60:40)
T2: Conventional tillage	F2: SSNM (139:34.5:75)
T3: Permanent bed	F3: FFP (151:60:60)

Table 14: Nutrient management in maize-wheat-greengram cropping system under different tillage practices at Banswara.

Tillage practices	Nutrient levels	Wheat yield (kg/ha)
Zero tillage	RDF	4704
	SSNM	5568
	FFP	4262
Conventional tillage	RDF	4296
	SSNM	4657
	FFP	2805
Permanent bed	RDF	4522
	SSNM	4917
	FFP	3330

Location mean	4340.0
C.D.(5%) AiBj-AiBk	716.3
C.D.(5%) AiBk-AjBk	699.9
F(5%)	n.s.

Zero tillage	4845
Conventional tillage	3919
Permanent bed	4256

C.D. (5%) Ai-Aj	391.6
C.V. (%) Error A	6.9
F (5%)	s

RDF	4507
SSNM	5047
FFP	3466

C.D. (5%) Bi-Bj	413.5
C.V. (%) ErrorB	9.3
F (5%)	s

Treatment details:

Main plot: Tillage practices		**Sub plot: Nutrient levels (N:P2O5:K2O/ha)**	
T1	Zero tillage	F1	100% of RDF (120:60:40)
T2	Conventional tillage	F2	SSNM based on nutrient expert (130:37:41)
T3	Permanent bed	F3	Farmer practices (87:46 kg N:P2O5/ha)

Table 15: Nutrient management in maize-chickpea cropping system under different tillage practices at Banswara.

Tillage practices	Nutrient levels	Chickpea yield (kg/ha)
Zero tillage	RDF	2133
	SSNM	2436
	FFP	1783
Conventional tillage	RDF	1641
	SSNM	2004
	FFP	1496
Permanent bed	RDF	1670
	SSNM	2233
	FFP	1623

Location mean	1891.0
C.D.(5%) AiBj-AiBk	326.4
C.D.(5%) AiBk-AjBk	286.9
F(5%)	n.s.

Zero tillage	2117
Conventional tillage	1714
Permanent bed	1842

C.D. (5%) Ai-Aj	108.5
C.V. (%) Error A	4.4
F (5%)	s

RDF	1815
SSNM	2224
FFP	1634

C.D. (5%) Bi-Bj	188.5
C.V. (%) ErrorB	9.7
F (5%)	s

Treatment details:

Main plot: Tillage practices		**Sub plot: Nutrient levels (N:P2O5:K2O/ha)**	
T1	Zero tillage	F1	100% of RDF (120:60:40)
T2	Conventional tillage	F2	SSNM based on nutrient expert (130:37:41)
T3	Permanent bed	F3	Farmer practices (87:46 kg N:P2O5/ha)

Table 16: Nutrient management in rice- maize cropping system under different tillage practices at Dholi.

Tillage practices	Nutrient levels	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Days to 50% tasseling	Days to 50% silking	Days of Maturity	Plant height (cm)
Zero tillage	RDF	8692	11553	50.7	51.1	128.0	133.7	176.0	104.7
	SSNM	9048	12027	80.0	54.4	128.7	133.3	175.0	110.3
	FFP	9284	12340	60.0	59.6	128.7	133.0	173.7	116.7
Conventional tillage	RDF	8778	11667	83.8	69.1	128.7	132.7	175.3	98.8
	SSNM	8276	11000	66.2	60.7	129.3	134.0	176.3	93.3
	FFP	8627	11467	60.7	64.7	128.0	133.0	178.0	101.1
Permanent bed	RDF	7273	9667	67.8	70.9	129.3	134.0	178.3	102.7
	SSNM	7273	9667	67.6	61.8	128.3	133.0	176.0	113.0
	FFP	8276	11000	58.9	66.4	128.0	133.0	178.0	89.3
Location mean		8391.8	11154.1	66.2	62.1	128.6	133.3	176.3	103.3
C.D.(5%) AiBj-AiBk		43.2	57.4	15.3	20.1	1.9	1.9	3.6	23.0
C.D.(5%) AiBk-AjBk		103.0	137.1	17.0	18.6	2.0	1.9	4.3	24.0
F(5%)		s	s	s	n.s.	n.s.	n.s.	n.s.	n.s.
Zero tillage		9008	11973	63.6	55.0	128.4	133.3	174.9	110.6
Conventional tillage		8560	11378	70.2	64.8	128.7	133.2	176.6	97.7
Permanent bed		7607	10111	64.7	66.4	128.6	133.3	177.4	101.7
C.D. (5%) Ai-Aj		97.2	129.3	11.7	9.0	1.2	1.1	3.2	15.2
C.V. (%) Error A		0.9	0.9	13.5	11.1	0.7	0.6	1.4	11.2
F (5%)		s	s	n.s.	s	n.s.	n.s.	n.s.	n.s.
RDF		8248	10962	67.4	63.7	128.7	133.4	176.6	102.0
SSNM		8199	10898	71.3	59.0	128.8	133.4	175.8	105.6
FFP		8729	11602	59.9	63.6	128.2	133.0	176.6	102.4
C.D. (5%) Bi-Bj		24.9	33.1	8.9	11.6	1.1	1.1	2.1	13.3
C.V. (%) ErrorB		0.3	0.3	13.0	18.2	0.8	0.8	1.1	12.5
F (5%)		s	s	s	n.s.	n.s.	n.s.	n.s.	n.s.

Treatment details:

Main plot: Tillage practices	**Sub plot: Nutrient levels**
T1: Zero tillage	F1: RDF (120:60:40)
T2: Conventional tillage	F2: SSNM (150:50:40)
T3: Permanent bed	F3: FFP (165:80:40)

Table 17: Nutrient requirement of different maize genotype under maize-wheat cropping system at Pantnagar.

Nutrient	Genotypes	Grain yield (kg/ha)	Straw yield (kg/ha)	Maize equivalent yield of wheat (kg/ha)	Maize yield (kg/ha) 2014 kharif	Maize equivalent yield of maize-wheat system (kg/ha)	Net return of wheat (`/ha)	B:C ratio of wheat
100% RDF	PMH-1	4311	8512	4718	6668	11386	33384	1.15
	PMH-3	4300	8534	4669	6283	10953	32740	1.12
	HQPM-1	4249	8334	4475	5428	9903	30162	1.03
	PMH-4	4288	7912	4475	6837	11312	30162	1.03
	CMH-08-292	4284	8789	4305	6691	10996	27907	0.96
SSNM	PMH-1	4581	8556	5010	7157	12167	37251	1.28
	PMH-3	4467	8534	4888	6473	11361	35642	1.22
	HQPM-1	4445	8324	4864	6759	11622	35318	1.21
	PMH-4	4423	8356	4841	7233	12074	35010	1.20
	CMH-08-292	4345	8112	4755	6799	11554	33868	1.16
FFP	PMH-1	4289	8389	4694	6284	10978	33064	1.14
	PMH-3	4223	8289	4621	5841	10461	32097	1.10
	HQPM-1	4252	8323	4653	5236	9888	32518	1.12
	PMH-4	4200	8212	4596	6050	10647	31773	1.09
	CMH-08-292	4267	8223	4669	5933	10602	32737	1.12
Location mean		4328.2	8359.8	4682.2	6378.0	11060.3	32908.8	1.13
C.D.(5%) AiBj-AiBk		115.3	267.5	203.8	343.2	376.6	2699.8	0.09
C.D.(5%) AiBk-AjBk		115.6	253.4	184.7	337.6	375.6	2447.3	0.08
F(5%)		n.s.	s	n.s.	s	s	n.s.	n.s.
100% RDF		4286	8416	4528	6381	10910	30871	1.06
SSNM		4452	8376	4872	6884	11756	35418	1.22
FFP		4246	8287	4647	5868	10515	32438	1.12
C.D. (5%) Ai-Aj		53.8	86.2	31.0	144.9	171.2	411.0	0.01
C.V. (%) Error A		1.2	1.0	0.7	2.2	1.5	1.2	1.02
F (5%)		s	s	s	s	s	s	s
PMH-1		4394	8486	4807	6703	11510	34567	1.19
PMH-3		4330	8452	4726	6199	10925	33493	1.15
HQPM-1		4315	8327	4664	5807	10471	32666	1.12
PMH-4		4304	8160	4637	6707	11344	32315	1.11
CMH-08-292		4298	8375	4576	6475	11051	31504	1.08
C.D. (5%) Bi-Bj		66.6	154.4	117.6	198.1	217.4	1558.8	0.05
C.V. (%) ErrorB		1.6	1.9	2.6	3.2	2.0	4.9	4.89
F (5%)		s	s	s	s	s	s	s

Treatment details:

Main plot: Nutrient levels (N:P:K kg/ha)

N1 100% RDF (120:60:40)
N2 SSNM based on nutrient expert
N3 Farmers Practice (93:64:32)

Sub plot: Genotypes		**SSNM dose**
V1	PMH-1	140:37:71
V2	PMH-3	140:37:71
V3	HQPM-1	120:33:46
V4	PMH-4	140:37:71
V5	CMH-08-292	140:37:71

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Nutrient	Genotypes	Plant height (cm) at harvest	No. of tillers/hill	Effective tillers/m^2	Spike length (cm)	100 grain weight (g)
100% RDF	PMH-1	101.4	9.2	375.0	8.3	3.8
	PMH-3	101.1	9.4	375.0	8.2	3.8
	HQPM-1	101.0	8.9	433.3	8.1	4.0
	PMH-4	97.1	9.2	433.3	8.0	3.8
	CMH-08-292	99.8	8.7	458.3	8.5	4.1
SSNM	PMH-1	99.7	10.4	391.7	8.3	4.1
	PMH-3	100.9	10.3	350.0	8.8	3.2
	HQPM-1	101.8	10.1	441.7	8.3	4.1
	PMH-4	99.8	10.0	358.3	8.3	3.7
	CMH-08-292	99.6	10.3	391.7	8.2	3.6
FFP	PMH-1	101.8	9.5	366.7	7.9	3.9
	PMH-3	99.6	9.2	375.0	8.0	4.0
	HQPM-1	97.8	9.4	425.0	7.7	3.9
	PMH-4	100.8	9.9	383.3	7.9	4.4
	CMH-08-292	99.4	9.9	391.7	8.3	4.0
Location mean		100.1	9.6	396.7	8.2	3.9
C.D.(5%) AiBj-AiBk		3.6	0.6	70.3	0.4	0.5
C.D.(5%) AiBk-AjBk		4.2	0.6	74.1	0.5	0.5
F(5%)		n.s.	n.s.	n.s.	n.s.	s
100% RDF		100.1	9.1	415.0	8.2	3.9
SSNM		100.4	10.2	386.7	8.4	3.7
FFP		99.9	9.6	388.3	7.9	4.0
C.D. (5%) Ai-Aj		2.8	0.2	40.3	0.4	0.1
C.V. (%) Error A		2.8	2.4	10.0	4.2	2.2
F (5%)		n.s.	s	n.s.	n.s.	s
PMH-1		100.9	9.7	377.8	8.2	3.9
PMH-3		100.5	9.6	366.7	8.3	3.7
HQPM-1		100.2	9.5	433.3	8.0	4.0
PMH-4		99.2	9.7	391.7	8.1	4.0
CMH-08-292		99.6	9.6	413.9	8.3	3.9
C.D. (5%) Bi-Bj		2.1	0.4	40.6	0.2	0.3
C.V. (%) ErrorB		2.1	3.8	10.5	2.7	7.7
F (5%)		n.s.	n.s.	s	s	n.s.

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Nutrient	Genotypes	Total uptake by kharif maize 2014 (kg/ha)			Total uptake by wheat 2014-15 (kg/ha)			Total uptake by maize- maize system (kg/ha)		
		N	P	K	N	P	K	N	P	K
100% RDF	PMH-1	206.2	32.9	49.5	54.9	9.8	57.0	261.1	106.5	106.5
	PMH-3	177.5	28.4	42.6	55.1	9.7	58.7	232.7	101.3	101.3
	HQPM-1	151.0	22.9	33.3	53.7	9.3	57.6	204.7	90.9	90.9
	PMH-4	207.0	32.1	49.2	53.1	8.9	55.3	260.1	104.6	104.6
	CMH-08-292	218.6	34.9	52.1	52.2	8.5	60.6	270.8	112.6	112.6
SSNM	PMH-1	223.6	40.4	44.0	56.5	10.6	60.1	280.1	104.1	104.1
	PMH-3	196.4	35.5	39.7	55.0	9.8	59.7	251.4	99.4	99.4
	HQPM-1	197.6	31.6	39.0	53.4	10.0	58.0	251.0	97.0	97.0
	PMH-4	239.9	42.4	52.2	54.2	10.4	59.5	294.1	111.7	111.7
	CMH-08-292	228.4	41.2	48.1	56.3	9.6	56.5	284.8	104.6	104.6
FFP	PMH-1	170.4	28.7	43.7	53.9	9.5	58.6	224.3	102.3	102.3
	PMH-3	151.7	26.0	38.2	54.1	9.5	57.4	205.8	95.6	95.6
	HQPM-1	135.8	22.6	32.4	54.9	9.7	58.7	190.8	91.1	91.1
	PMH-4	173.8	29.0	43.9	52.8	9.0	55.5	226.6	99.4	99.4
	CMH-08-292	180.8	31.0	47.7	53.8	9.2	56.8	234.6	104.5	104.5
Location mean		190.6	32.0	43.7	54.3	9.6	58.0	244.8	101.7	101.7
C.D.(5%) AiBj-AiBk		12.6	3.4	4.4	2.7	0.6	2.4	12.2	5.0	5.0
C.D.(5%) AiBk-AjBk		15.9	3.4	5.5	2.5	0.6	2.6	15.6	6.5	6.5
F(5%)		s	n.s.	s	n.s.	n.s.	s	s	s	s
100% RDF		192.1	30.2	45.3	53.8	9.2	57.8	245.9	103.2	103.2
SSNM		217.2	38.2	44.6	55.1	10.1	58.8	272.3	103.4	103.4
FFP		162.5	27.5	41.2	53.9	9.4	57.4	216.4	98.6	98.6
C.D. (5%) Ai-Aj		11.5	1.6	3.9	0.6	0.3	1.4	11.4	4.8	4.8
C.V. (%) Error A		6.0	4.8	8.7	1.0	2.9	2.4	4.6	4.6	4.6
F (5%)		s	s	n.s.	s	s	n.s.	s	n.s.	n.s.
PMH-1		200.1	34.0	45.7	55.1	9.9	58.6	255.2	104.3	104.3
PMH-3		175.2	30.0	40.2	54.7	9.7	58.6	230.0	98.8	98.8
HQPM-1		161.5	25.7	34.9	54.0	9.7	58.1	215.5	93.0	93.0
PMH-4		206.9	34.5	48.4	53.3	9.4	56.8	260.3	105.2	105.2
CMH-08-292		209.3	35.7	49.3	54.1	9.1	57.9	263.4	107.2	107.2
C.D. (5%) Bi-Bj		7.2	2.0	2.6	1.6	0.4	1.4	7.0	2.9	2.9
C.V. (%) ErrorB		3.9	6.3	6.0	3.0	3.9	2.5	3.0	2.9	2.9
F (5%)		s	s	s	n.s.	s	n.s.	s	s	s

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Nutrient	Genotypes	At maize sowing 2014 kharif				At wheat harvesting 2014-15			
		pH	EC (d Sm/m)	Organic Carbon (%)	Bulk density (g/cm^3) at wheat harvest	pH	EC (d Sm/m)	Organic Carbon (%)	Bulk density (g/cm^3) at wheat harvest
100% RDF	PMH-1	7.10	0.33	0.80	1.40	7.1	0.32	0.82	1.41
	PMH-3	7.07	0.31	0.77	1.36	7.1	0.30	0.78	1.40
	HQPM-1	7.10	0.31	0.82	1.39	7.2	0.32	0.86	1.44
	PMH-4	7.00	0.30	0.79	1.36	7.1	0.32	0.85	1.36
	CMH-08-292	7.03	0.30	0.78	1.40	7.0	0.31	0.82	1.39
SSNM	PMH-1	7.00	0.32	0.86	1.36	7.2	0.33	0.89	1.39
	PMH-3	7.13	0.33	0.84	1.34	7.1	0.34	0.89	1.40
	HQPM-1	7.20	0.33	0.79	1.33	7.2	0.34	0.80	1.43
	PMH-4	7.13	0.32	0.83	1.36	7.1	0.35	0.87	1.36
	CMH-08-292	7.17	0.34	0.83	1.42	7.1	0.34	0.90	1.42
FFP	PMH-1	7.10	0.34	0.84	1.36	7.1	0.35	0.85	1.41
	PMH-3	7.07	0.34	0.85	1.38	7.2	0.36	0.84	1.42
	HQPM-1	6.97	0.30	0.81	1.40	7.1	0.32	0.80	1.44
	PMH-4	7.13	0.32	0.77	1.36	7.2	0.34	0.83	1.37
	CMH-08-292	7.17	0.33	0.83	1.37	7.3	0.33	0.87	1.41
Location mean		7.09	0.32	0.81	1.37	7.1	0.33	0.84	1.40
C.D.(5%) AiBj-AiBk		0.17	0.03	0.07	0.06	0.2	0.04	0.06	0.04
C.D.(5%) AiBk-AjBk		0.17	0.03	0.07	0.05	0.2	0.04	0.07	0.07
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
100% RDF		7.06	0.31	0.79	1.38	7.1	0.31	0.83	1.40
SSNM		7.13	0.33	0.83	1.36	7.1	0.34	0.87	1.40
FFP		7.09	0.33	0.82	1.38	7.2	0.34	0.84	1.41
C.D. (5%) Ai-Aj		0.09	0.02	0.02	0.01	0.1	0.02	0.04	0.06
C.V. (%) Error A		1.20	6.33	2.88	1.03	1.6	4.85	4.67	4.02
F (5%)		n.s.	n.s.	s	n.s.	n.s.	s	n.s.	n.s.
PMH-1		7.07	0.33	0.83	1.37	7.1	0.33	0.85	1.40
PMH-3		7.09	0.33	0.82	1.36	7.1	0.33	0.84	1.40
HQPM-1		7.09	0.31	0.81	1.37	7.2	0.33	0.82	1.44
PMH-4		7.09	0.31	0.79	1.36	7.1	0.34	0.85	1.37
CMH-08-292		7.12	0.32	0.81	1.40	7.1	0.33	0.86	1.41
C.D. (5%) Bi-Bj		0.10	0.02	0.04	0.03	0.1	0.02	0.04	0.02
C.V. (%) ErrorB		1.43	5.75	5.26	2.45	1.8	7.25	4.54	1.76
F (5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	s

Contd…..

Nutrient	Genotypes	Available N (kg/ha)		Available P (kg/ha)		Available K(kg/ha)	
		At maize sowing kharif 2014	At wheat harvest 14-15/maize sowing 2015	At maize sowing kharif 2014	At wheat harvest 14-15/maize sowing 2015	At maize sowing kharif 2014	At wheat harvest 14-15/maize sowing 2015
100% RDF	PMH-1	192.5	185.1	31.2	32.2	144.5	144.0
	PMH-3	190.4	186.7	28.1	30.7	143.7	146.3
	HQPM-1	187.0	184.0	29.5	29.4	146.1	150.9
	PMH-4	188.1	181.3	30.3	28.4	142.0	139.8
	CMH-08-292	188.0	185.2	29.7	28.7	144.7	144.0
SSNM	PMH-1	197.2	200.4	30.6	29.7	145.6	154.8
	PMH-3	201.6	204.9	32.1	30.0	148.5	153.0
	HQPM-1	199.3	194.4	32.7	31.0	150.1	157.2
	PMH-4	202.0	208.6	31.6	30.1	145.9	150.3
	CMH-08-292	196.5	199.6	31.6	29.0	150.4	154.1
FFP	PMH-1	200.5	194.5	28.0	28.8	149.0	147.2
	PMH-3	206.2	195.7	29.4	32.1	151.4	146.7
	HQPM-1	209.2	199.2	30.2	33.4	146.5	146.4
	PMH-4	202.4	201.5	29.4	31.8	146.0	146.7
	CMH-08-292	207.6	201.6	27.5	29.7	145.2	144.8
Location mean		197.9	194.8	30.1	30.3	146.6	148.4
C.D.(5%) AiBj-AiBk		9.4	7.8	3.8	3.1	7.8	7.7
C.D.(5%) AiBk-AjBk		10.6	9.2	3.7	3.3	8.5	9.0
F(5%)		n.s.	s	n.s.	n.s.	n.s.	n.s.
100% RDF		189.2	184.5	29.8	29.9	144.2	145.0
SSNM		199.3	201.6	31.7	29.9	148.1	153.9
FFP		205.2	198.5	28.9	31.2	147.6	146.4
C.D. (5%) Ai-Aj		6.6	6.1	1.5	2.0	4.9	6.0
C.V. (%) Error A		3.3	3.1	5.0	6.4	3.3	4.0
F (5%)		s	s	s	n.s.	n.s.	s
PMH-1		196.7	193.3	30.0	30.2	146.4	148.7
PMH-3		199.4	195.8	29.9	30.9	147.9	148.7
HQPM-1		198.5	192.6	30.8	31.3	147.6	151.5
PMH-4		197.5	197.1	30.4	30.1	144.6	145.6
CMH-08-292		197.4	195.5	29.6	29.1	146.8	147.6
C.D. (5%) Bi-Bj		5.4	4.5	2.2	1.8	4.5	4.4
C.V. (%) ErrorB		2.8	2.4	7.4	6.0	3.2	3.1
F (5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

Table 18: Nutrient management for maize genotypes under maize-wheat cropping system at Banswara.

Nutrient levels	Hybrid	Grain yield of maize (kg/ha)	Grain yield of wheat (kg/ha)
RDF	PMH 1	4611	5374
	PMH 3	5139	5656
	HQPM 1	4444	5389
	CMH-08-350	5028	5806
	CMH-08-292	5417	5694
SSNM	PMH 1	5333	6139
	PMH 3	6625	6528
	HQPM 1	4806	6361
	CMH-08-350	6472	6278
	CMH-08-292	6861	6361
FFP	PMH 1	3972	4639
	PMH 3	4139	4806
	HQPM 1	3417	4250
	CMH-08-350	4361	4056
	CMH-08-292	4611	4333
Location mean		5015.7	5444.6
C.D.(5%) AiBj-AiBk		749.1	648.6
C.D.(5%) AiBk-AjBk		695.9	852.3
F(5%)		n.s.	n.s.
RDF		4928	5584
SSNM		6019	6333
FFP		4100	4417
C.D. (5%) Ai-Aj		194.3	637.1
C.V. (%) Error A		3.8	11.5
F (5%)		s	s
PMH 1		4639	5384
PMH 3		5301	5663
HQPM 1		4222	5333
CMH-08-350		5287	5380
CMH-08-292		5630	5463
C.D. (5%) Bi-Bj		432.5	374.5
C.V. (%) ErrorB		8.9	7.1
F (5%)		s	n.s.

Treatment details:

Main Plot: Nutrient management

N1: 100% of RDF (120:60:40kg NPK/ha)
N2: SSNM based on nutrient expert
N3: Farmer's fertilizer practices (87:46kg NP/ha)

Sub plot: Maize genotypes	Target yield (t/ha)	Fertilize dose of SSNM (kg N:P2O5:K2O/ha)
V1: PMH 1	6	140:40:46
V2: PMH 3	6	140:40:46
V3: HQPM 1	5	130:37:41
V4: CMH-08-350	7	160:44:51
V5: CMH-08-292	7	160:44:51

Table 19: Performance of wheat as succeeding crop after maize in experiment effect of planting density and nutrient management practices on the performance of maize hybrids at Pantnagar.

Hybrids	Plant Density	Nutrient levels	Wheat yield (kg/ha)	Stover yield (kg/ha)	No. of tillers/m^2	Plant height (cm)	100-grain weight	Gross profit (Rs/ha)	Net profit (Rs/ha)	BC ratio
4212 (Rashi seeds)	67.5x20 cm	RDF	4298	6963	460.0	81.2	4.50	62325	34541	1.24
		STCR	4408	7237	471.7	84.7	4.50	63915	36131	1.30
		SSNM	4473	7182	470.0	79.2	4.63	64868	37084	1.33
	67.5x15 cm	RDF	4320	6853	458.3	78.6	4.63	62643	34859	1.25
		STCR	4364	7018	473.3	81.5	4.57	63278	35494	1.28
		SSNM	4232	6787	460.0	83.0	4.57	61371	33587	1.21
P3377 (Pioneer)	67.5x20 cm	RDF	4364	6798	476.7	80.1	4.60	63279	35495	1.28
		STCR	4276	7018	465.0	82.3	4.57	62006	34222	1.23
		SSNM	4452	6524	470.0	82.9	4.63	64551	36767	1.32
	67.5x15 cm	RDF	4386	6689	463.3	81.9	4.53	63597	35813	1.29
		STCR	4254	7072	465.0	77.5	4.57	61688	33904	1.22
		SSNM	4342	6743	461.7	81.8	4.57	62961	35177	1.27
Mean of location			4347.4	6907.0	466.3	81.2	4.57	63040.1	35256.1	1.27
4212 (Rashi seeds)			4349	7007	465.6	81.4	4.57	63067	35283	1.27
P3377 (Pioneer)			4346	6807	466.9	81.1	4.58	63014	35230	1.27
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			8.22	9.11	13.92	3.46	2.98	8.22	14.70	14.45
67.5x20 cm			4379	6954	468.9	81.7	4.57	63491	35707	1.28
67.5x15 cm			4316	6860	463.6	80.7	4.57	62590	34806	1.25
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			11.35	10.33	9.16	6.71	1.86	11.35	20.30	20.28
RDF			4342	6826	464.6	80.5	4.57	62961	35177	1.27
STCR			4326	7086	468.8	81.5	4.55	62722	34938	1.26
SSNM			4375	6809	465.4	81.7	4.60	63438	35654	1.28
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			8.65	9.62	11.27	6.29	4.12	8.65	15.46	15.45

Contd…..

Hybrids	Plant Density	Nutrient levels	Maize grain equivalent yield (kg/ha)	Gross return of system (Rs/ha)	Net return of system (Rs/ha)	B:C ratio of system
4212 (Rashi seeds)	67.5x20 cm	RDF	11193	146624	93729	1.77
		STCR	11573	151609	94138	1.64
		SSNM	11356	148763	97549	1.90
	67.5x15 cm	RDF	11613	152131	98836	1.85
		STCR	11985	157008	99137	1.71
		SSNM	11384	149132	97518	1.89
P3377 (Pioneer)	67.5x20 cm	RDF	11611	152105	99210	1.87
		STCR	13014	170480	113009	1.97
		SSNM	12249	160466	109252	2.13
	67.5x15 cm	RDF	13166	172475	119180	2.24
		STCR	14026	183735	125864	2.17
		SSNM	12920	169251	117637	2.28
Mean of location			12174.2	159481.7	105421.7	1.95
4212 (Rashi seeds)			11517	150878	96818	1.80
P3377 (Pioneer)			12831	168085	114025	2.11
CD at 5%			1009.83	13226.57	13226.57	0.26
CV (%)			5.78	5.78	8.75	9.20
67.5x20 cm			11833	155008	101148	1.88
67.5x15 cm			12516	163955	109695	2.03
CD at 5%			NS	NS	NS	NS
CV (%)			6.52	6.52	9.86	10.08
RDF			11896	155834	102739	1.94
STCR			12650	165708	108037	1.87
SSNM			11977	156903	105489	2.05
CD at 5%			557.51	7303.59	NS	0.14
CV (%)			5.29	5.29	8.01	8.15

Contd…..

Hybrids	Plant Density	Nutrient levels	N uptake (kg/ha)			P uptake (kg/ha)			K uptake (kg/ha)		
			Grain	Stover	Total	Grain	Stover	Total	Grain	Stover	Total
4212 (Rashi seeds)	67.5x20 cm	RDF	60.9	24.4	85.4	10.0	8.37	18.4	45.8	95.2	141.1
		STCR	63.8	31.2	95.1	10.3	8.90	19.2	47.3	100.1	147.4
		SSNM	63.2	25.9	89.2	10.4	8.77	19.1	47.3	97.6	144.9
	67.5x15 cm	RDF	60.7	29.3	90.1	9.9	8.37	18.2	46.1	91.8	138.0
		STCR	59.3	25.9	85.3	10.2	8.73	18.9	46.1	94.9	141.0
		SSNM	58.7	28.1	86.8	9.7	8.27	18.0	45.2	91.1	136.2
P3377 (Pioneer)	67.5x20 cm	RDF	62.6	28.4	91.0	10.1	8.37	18.5	45.3	92.0	137.3
		STCR	59.6	26.3	86.0	9.9	8.53	18.5	45.6	97.2	142.8
		SSNM	62.7	28.5	91.2	10.4	8.10	18.5	47.8	87.8	135.6
	67.5x15 cm	RDF	62.6	28.1	90.6	10.2	8.23	18.4	45.4	89.6	135.0
		STCR	58.6	29.0	87.5	10.0	8.83	18.8	44.4	95.2	139.6
		SSNM	59.7	25.4	85.1	10.0	8.17	18.2	45.1	89.5	134.7
Mean of location			61.0	27.5	88.6	10.1	8.47	18.6	46.0	93.5	139.5
4212 (Rashi seeds)			61.1	27.5	88.6	10.1	8.57	18.6	46.3	95.1	141.4
P3377 (Pioneer)			60.9	27.6	88.6	10.1	8.37	18.5	45.6	91.9	137.5
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			12.86	11.65	11.26	7.23	3.17	5.07	8.36	8.35	8.07
67.5x20 cm			62.1	27.5	89.6	10.2	8.51	18.7	46.5	95.0	141.5
67.5x15 cm			59.9	27.6	87.6	10.0	8.43	18.4	45.4	92.0	137.4
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			10.46	19.64	9.77	11.05	13.33	9.56	17.89	19.31	17.90
RDF			61.7	27.6	89.3	10.0	8.33	18.4	45.7	92.2	137.9
STCR			60.3	28.1	88.5	10.1	8.75	18.8	45.9	96.8	142.7
SSNM			61.1	27.0	88.1	10.1	8.33	18.5	46.3	91.5	137.8
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			11.05	18.69	11.71	8.94	9.49	7.66	12.30	11.44	10.18

Contd…..

Hybrids	Density	N. levels	Residual soil organic carbon (%) after completion of one year cropping sequence	Residual soil available N (kg/ha) after completion of one year cropping sequence	Residual soil available P (kg/ha) after completion of one year cropping sequence	Residual soil available K (kg/ha)after completion of one year cropping sequence	Soil pH after completion of one year cropping sequence	Soil Bulk density (Mg/m3) at 0-15 cm depth after completion of one year cropping sequence
4212 (Rashi seeds)	67.5x20 cm	RDF	0.69	249.7	18.0	228.0	7.03	1.36
		STCR	0.73	263.7	20.8	230.3	7.10	1.36
		SSNM	0.72	254.7	18.8	233.3	7.13	1.37
	67.5x15 cm	RDF	0.70	251.0	18.2	230.0	6.97	1.37
		STCR	0.71	249.3	20.9	226.0	7.17	1.36
		SSNM	0.69	251.3	17.9	232.7	7.07	1.36
P3377 (Pioneer)	67.5x20 cm	RDF	0.71	248.7	18.4	234.3	7.13	1.37
		STCR	0.70	241.7	20.6	230.0	6.97	1.35
		SSNM	0.74	251.7	18.4	225.7	7.10	1.36
	67.5x15 cm	RDF	0.73	247.3	18.4	227.7	7.17	1.35
		STCR	0.68	253.7	20.1	226.3	7.00	1.36
		SSNM	0.70	248.7	17.9	231.0	7.17	1.36
Mean of location			0.71	250.9	19.0	229.6	7.08	1.36
4212 (Rashi seeds)			0.71	253.3	19.1	230.1	7.08	1.36
P3377 (Pioneer)			0.71	248.6	19.0	229.2	7.09	1.36
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			3.51	6.30	2.96	8.69	2.24	2.15
67.5x20 cm			0.71	251.7	19.2	230.3	7.08	1.36
67.5x15 cm			0.70	250.2	18.9	228.9	7.09	1.36
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			9.94	5.41	5.00	8.97	2.69	3.46
RDF			0.71	249.2	18.3	230.0	7.08	1.36
STCR			0.71	252.1	20.6	228.2	7.06	1.36
SSNM			0.71	251.6	18.3	230.7	7.12	1.36
CD at 5%			NS	NS	0.60	0.60	NS	NS
CV (%)			8.36	5.26	3.64	4.46	2.08	1.73

Table 20: Effect of planting density and nutrient management practices on the performance of hybrid in kharif season at Dholi.

Genotypes	Plant Density	Nutrient levels	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Days to 50% tasseling	Days to 50% silking	Days to maturity	Plant height (cm)
Shaktiman	60x20 cm	STCR	4077	6044	82.7	93.1	55.7	58.3	91.7	162.7
		SSNM	5697	8400	82.7	93.3	56.7	59.3	91.7	160.7
		RDF	4745	6844	82.4	84.0	56.3	59.3	91.0	165.0
	50x20 cm	STCR	4493	6533	82.2	93.6	55.7	58.7	93.7	167.3
		SSNM	5651	7936	82.2	90.0	49.0	58.7	93.7	161.7
		RDF	4942	6978	82.4	83.6	56.3	59.3	92.3	155.0
P-3377	60x20 cm	STCR	4646	6533	98.7	106.7	57.0	60.0	92.0	165.7
		SSNM	5072	7489	98.9	103.3	56.3	58.3	92.7	167.3
		RDF	4817	6800	98.4	100.4	56.3	59.3	92.0	166.0
	50x20 cm	STCR	4748	7200	98.4	107.1	55.0	58.0	92.3	168.3
		SSNM	5631	8067	98.4	103.6	55.0	57.3	93.3	166.7
		RDF	5004	7600	99.1	100.0	56.0	59.0	93.0	166.0
Mean of location			4960.3	7202.0	90.6	96.6	55.4	58.8	92.4	164.4
Shaktiman			4934	7123	82.4	89.6	54.9	58.9	92.3	162.1
P-3377			4986	7281	98.7	103.5	55.9	58.7	92.6	166.7
CD at 5%			NS	NS	0.28	3.33	NS	NS	NS	NS
CV (%)			9.95	9.97	0.21	2.40	6.33	2.52	2.19	9.76
60x20 cm			4842	7019	90.6	96.8	56.4	59.1	91.8	164.6
50x20 cm			5078	7386	90.5	96.3	54.5	58.5	93.1	164.2
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			9.47	9.56	0.88	2.34	7.34	2.23	3.35	3.28
STCR			4491	6578	90.5	100.1	55.8	58.8	92.4	166.0
SSNM			5513	7973	90.6	97.6	54.3	58.4	92.8	164.1
RDF			4877	7056	90.6	92.0	56.3	59.3	92.1	163.0
CD at 5%			283.2	414.3	NS	1.85	NS	NS	NS	NS
CV (%)			6.60	6.65	1.34	2.22	6.99	2.11	0.87	5.52

Treatment details:

Main plot: Genotypes	**Sub plot: Plant density**	**Sub-sub plot: Nutrient levels**
V1: Shaktiman-5	D1: 60x20 cm	(i) STCR – F1 (151:60:60)
V2: P-3377	D2: 50x20 cm	(ii) SSNM – F2 (139:34.5:75)
		(iii) RDF – F3 (100:600:60)

Table 21: Effect of plant density and Nutrient management practices on performance of hybrids in Rabi season (2014-15) at Dholi.

Genotypes	Plant Density	Nutrient level	Wheat yield (kg/ha)	No. of tillers (m^2)	Days of Flowering	Days to maturity	Plant height (cm)	No of Spikelet's/ ear	Spike length (cm)	1000 grain weight (gm)
Shaktiman	60x20 cm	STCR	3666	253.7	86.3	125.7	79.3	42.3	10.6	43.7
		SSNM	3500	344.3	87.0	126.0	77.5	38.0	10.7	47.8
		RDF	4559	327.5	87.0	125.7	79.1	41.3	10.7	45.1
	50x20 cm	STCR	3593	311.0	88.3	128.0	78.4	41.7	10.7	42.3
		SSNM	3866	298.0	89.3	128.3	80.7	38.7	10.9	41.7
		RDF	3440	330.0	87.7	127.3	78.1	36.7	10.4	45.7
P-3377	60x20 cm	STCR	3473	315.0	87.0	126.3	78.9	40.3	11.6	45.6
		SSNM	3484	287.5	87.7	127.0	78.0	40.0	11.5	42.9
		RDF	4048	368.5	87.0	126.3	80.0	36.7	10.5	42.6
	50x20 cm	STCR	3889	309.0	86.3	125.3	80.3	37.3	11.8	46.2
		SSNM	3815	328.5	87.3	126.3	81.4	31.7	10.2	47.1
		RDF	3751	336.0	87.7	127.3	78.8	33.7	9.7	48.7
Mean of location			3757.0	317.4	87.4	126.6	79.2	38.2	10.8	44.9
Shaktiman			3771	310.8	87.6	126.8	78.8	39.8	10.6	44.4
P-3377			3743	324.1	87.2	126.4	79.6	36.6	10.9	45.5
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			6.48	13.58	0.83	0.35	4.88	13.75	5.09	1.34
60x20 cm			3788	316.1	87.0	126.2	78.8	39.8	10.6	44.6
50x20 cm			3726	318.8	87.8	127.1	79.6	36.6	10.9	45.3
CD at 5%			NS	NS	NS	0.51	NS	2.81	NS	NS
CV (%)			6.44	11.40	1.25	0.44	3.28	7.95	6.51	3.66
STCR			3655	297.2	87.0	126.3	79.2	40.4	11.2	44.4
SSNM			3666	314.6	87.8	126.9	79.4	37.1	10.8	44.9
RDF			3950	340.5	87.3	126.7	79.0	37.1	10.3	45.5
CD at 5%			188.11	13.30	NS	NS	NS	2.21	0.32	2.15
CV (%)			5.79	4.84	1.54	0.88	3.28	6.68	3.41	2.84

Table 22: Effect of plant density and Nutrient management practices on performance of hybrids in Rabi season at Dholi.

Genotypes	Plant Density	Nutrient levels	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Days to 50% tasseling	Days to 50% silking	Days of Maturity	Plant height (cm)
Shaktiman-5	60x20 cm	RDF	8026	10667	99.1	92.7	126.7	130.7	159.0	148.7
		STCR	8444	11222	100.0	92.0	129.7	134.3	161.3	150.0
		SSNM	7975	10600	99.3	107.3	132.0	135.7	160.3	157.3
	50x20 cm	RDF	10032	13333	116.2	108.9	127.3	131.3	158.0	151.3
		STCR	7858	10444	115.6	106.2	131.0	134.3	163.3	148.3
		SSNM	9112	12111	116.0	103.1	133.0	137.0	157.7	152.3
Rashi 4558	60x20 cm	RDF	11537	15333	98.0	98.2	121.0	123.7	151.7	148.0
		STCR	13042	17333	98.7	101.3	124.7	127.0	156.3	152.0
		SSNM	8694	11556	99.8	103.1	127.3	127.7	152.0	155.3
	50x20 cm	RDF	11955	15889	115.8	107.1	122.0	127.0	151.7	151.0
		STCR	10701	14222	115.6	92.7	124.7	126.3	153.7	153.3
		SSNM	10701	14222	115.6	111.1	128.0	129.3	154.0	155.7
Syngenta NH 7210	60x20 cm	RDF	10952	14556	99.1	96.0	121.7	125.7	155.7	150.7
		STCR	10366	13778	98.4	97.6	125.0	128.7	158.7	152.7
		SSNM	8862	11778	99.6	95.3	127.3	129.3	154.7	154.7
	50x20 cm	RDF	11771	15644	115.3	101.1	118.3	126.3	153.3	157.7
		STCR	10483	13933	116.2	106.7	126.3	126.7	155.3	152.7
		SSNM	8226	10933	116.4	105.6	127.3	130.7	159.3	155.0
Mean of location			9929.8	13197.5	107.5	101.4	126.3	129.5	156.4	152.6
Shaktiman-5			8575	11396	107.7	101.7	129.9	133.9	159.9	151.3
Rashi 4558			11105	14759	107.2	102.3	124.6	126.8	153.2	152.6
Syngenta NH 7210			10110.0	13437.0	107.5	100.4	124.3	127.9	156.1	153.9
CD at 5%			316.81	421.06	NS	NS	0.63	0.98	1.23	0.91
CV (%)			3.45	3.45	0.41	3.52	0.54	0.82	0.85	0.64
60x20 cm			9766	12980	99.1	98.2	126.2	129.2	156.6	152.2
50x20 cm			10093	13415	115.9	104.7	126.4	129.9	156.3	153.0
CD at 5%			180.29	239.62	0.49	3.00	NS	0.63	NS	NS
CV (%)			2.73	2.73	0.68	4.44	0.75	0.74	1.00	0.92
RDF			10712	14237	107.3	100.7	122.8	127.4	154.9	151.2
STCR			10149	13489	107.4	99.4	126.9	129.6	158.1	151.5
SSNM			8929	11867	107.8	104.3	129.2	131.6	156.3	155.1
CD at 5%			300.80	399.79	NS	3.34	0.97	2.19	1.19	1.60
CV (%)			4.40	4.40	1.11	4.79	1.11	2.46	1.10	1.52

Treatment details:

Main plot: Full maturity (Genotypes)	**Sub plot: Density**	**Sub-sub plot: Nutrient levels**
V1 – Shaktiman – 5	D1: 60x20 cm	F1: RDF (100:60:40)
V2 –Rashi 4558	D2: 50x20 cm	F2: STCR (151:60:60)
V3 – Syngenta NH 7210		F3: SSNM (139:34.5:75)

Table 23: Effect of planting density and nutrient management practices on performance of full season hybrids in Rabi season at Karimnagar.

Hybrids	Plant density	Nutrient levels	Grain yield (kg/ha)	Cob yield (kg/ha)	Days to 50% tasseling	Days to 50% silking	Plant height (cm)	Cob length (cm)	Cob girth (cm)	Kernel rows	No. of kernels / rows	Test weight (g)
NK 6240	60x20 cm	SSNM	5258	7744	75.0	78.3	229.2	17.8	15.5	14.5	32.3	282.7
		STCR	6401	9715	73.7	77.3	216.7	18.2	15.1	14.1	33.1	309.3
		RDF	5587	8344	73.7	77.3	216.5	18.0	15.2	14.5	33.6	273.3
	50x20 cm	SSNM	5407	9142	74.0	77.3	235.5	18.8	16.0	14.3	33.8	332.0
		STCR	5740	8066	74.7	78.0	232.5	19.0	16.2	14.4	35.1	344.0
		RDF	5986	8497	73.7	77.7	242.3	18.6	15.9	14.8	32.9	338.7
K 3110	60x20 cm	SSNM	6202	9250	76.0	79.0	252.0	19.5	16.3	14.1	39.7	304.0
		STCR	6431	9813	75.3	79.0	240.7	19.2	15.8	14.0	39.1	309.3
		RDF	6417	9687	75.3	79.0	239.7	19.4	16.1	14.1	40.3	308.0
	50x20 cm	SSNM	5632	8873	74.0	76.3	236.3	18.7	15.8	14.1	37.3	288.0
		STCR	6597	9471	73.7	77.0	236.5	18.7	15.9	13.1	38.5	321.3
		RDF	5878	9129	73.0	76.7	241.0	18.3	15.1	12.9	38.2	298.7
Mean of location			5961.3	8977.7	74.3	77.8	234.9	18.7	15.7	14.1	36.2	309.1
NK 6240			5730	8585	74.1	77.7	228.8	18.4	15.6	14.4	33.5	313.3
K 3110			6193	9371	74.6	77.8	241.0	19.0	15.9	13.7	38.8	304.9
CD at 5%			NS	NS	NS	NS	4.7	NS	NS	NS	3.8	6.9
CV (%)			18.5	9.2	1.8	0.7	1.4	5.5	5.1	5.5	7.3	1.6
60x20 cm			6049	9093	74.8	78.3	232.4	18.7	15.7	14.2	36.3	297.8
50x20 cm			5873	8863	73.8	77.2	237.4	18.7	15.8	13.9	36.0	320.4
CD at 5%			NS	NS	NS	NS	NS	NS	NS	0.2	NS	NS
CV (%)			11.3	12.0	1.6	2.3	4.0	2.6	4.2	1.8	8.2	13.6
SSNM (190:84:143)			5625	8752	74.8	77.8	238.3	18.7	15.9	14.3	35.8	301.7
STCR (260:94:61)			6292	9266	74.3	77.8	231.6	18.8	15.8	13.9	36.4	321.0
RDF (200:60:50)			5967	8914	73.9	77.7	234.9	18.6	15.6	14.1	36.3	304.7
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			13.2	7.6	1.9	1.8	4.1	5.6	3.8	6.0	5.5	10.6

Treatment details:

Main plot: Full season maize hybrid (2)

P_1 : NK 6240

P_2 : K 3110

Sub plot: Density (2)

D_1 : 60x20 cm

D_2 : 50x20 cm

Sub-sub plot: Nutrient management (kg NPK/ha) (2)

F_1 : SSNM: 190-84-143

F_2 : STCR: 260-94-61

F_3 : RDF: 200-60-50

Table 24: Performance of hybrids under varying plant density and nutrient levels at Vagarai.

Plant density	Genotypes	Nutrient levels	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Test weight (g)
60x20 cm	CO6	RDF	8993	8419	67.8	64.8	212.2	51.3	54.0	35.3
		SSNM	7572	7293	61.9	60.7	210.6	52.7	55.0	33.3
		STCR	7608	8931	63.0	63.0	205.7	52.7	55.3	33.3
	NK6240	RDF	8051	7520	64.4	61.5	209.7	53.7	56.7	35.3
		SSNM	8956	8772	71.1	67.8	200.3	53.7	56.0	38.0
		STCR	8031	8311	70.4	67.0	202.7	53.3	56.3	35.3
50x20 cm	CO6	RDF	8733	10853	81.3	76.9	210.7	52.0	54.3	28.7
		SSNM	9009	9784	83.6	80.0	220.3	52.0	55.3	30.7
		STCR	7890	7307	75.1	69.8	216.4	52.0	55.0	29.3
	NK6240	RDF	8704	8988	84.4	80.0	198.1	53.0	55.7	28.7
		SSNM	8828	8541	79.1	77.8	204.7	53.7	56.3	30.7
		STCR	8711	9216	89.3	86.7	199.7	53.7	57.0	29.3
Mean of location			8423.8	8661.3	74.3	71.3	207.6	52.8	55.6	32.3
60x20 cm			8202	8208	66.4	64.1	206.9	52.9	55.6	351.1
50x20 cm			8646	9115	82.2	78.5	208.3	52.7	55.6	295.6
CD at 5%			NS	NS	9.63	13.70	NS	NS	NS	19.12
CV (%)			3.82	21.04	9.03	13.39	4.50	3.33	4.83	4.12
CO6			8301	8765	72.1	69.2	212.6	52.1	54.8	317.8
NK6240			8547	8558	76.5	73.5	202.5	53.5	56.3	328.9
CD at 5%			NS	NS	NS	4.01	9.18	NS	1.46	NS
CV (%)			4.70	6.64	8.00	6.08	4.78	4.32	2.83	6.52
RDF			8620	8945	74.5	70.8	207.7	52.5	55.2	320.0
SSNM			8591	8597	73.9	71.6	209.0	53.0	55.7	331.7
STCR			8060	8441	74.4	71.6	206.1	52.9	55.9	318.3
CD at 5%			341.77	NS	NS	NS	NS	NS	0.54	NS
CV (%)			4.69	13.29	7.56	7.63	3.03	1.16	1.12	6.80

Plant density	Varieties	Nutrient levels	Gross Return (Rs./ha)	Total Cost of Cultivation (Rs./ha)	Net Return (Rs./ha)	BCR
ND	Co 6	RDF	116914	67023	49891	1.74
		SSNM	98439	62125	36314	1.58
		STCR	98909	65215	33694	1.52
	NK 6240	RDF	104657	67023	37634	1.56
		SSNM	116425	62125	54300	1.87
		STCR	104404	65215	39189	1.60
HD	Co 6	RDF	113530	67023	46507	1.69
		SSNM	117119	62125	54994	1.89
		STCR	102564	65215	37349	1.57
	NK 6240	RDF	113157	67023	46134	1.69
		SSNM	114760	62125	52635	1.85
		STCR	113237	65215	48022	1.74

Table 25: Effect of planting density and nutrient management practices on the performance of hybrids in rabi season at Banswara.

Hybrid	Spacing	Fertility	Maize yield (kg/ha)
Bio-9682	50x20 cm	RDF	8173
		SSNM	9847
		STCR	10229
	60x20 cm	RDF	6849
		SSNM	8967
		STCR	9457
HQPM-1	50x20 cm	RDF	7256
		SSNM	8683
		STCR	8726
	60x20 cm	RDF	6322
		SSNM	7739
		STCR	7810

Mean of location	8338.2

Bio-9682	8920
HQPM-1	7756
CD at 5%	381.40
CV (%)	3.19

50x20 cm	8819
60x20 cm	7857
CD at 5%	203.52
CV (%)	2.64

RDF (150:60:40)	7150
SSNM (208:59:66)	8809
STCR (234:119:64)	9056
CD at 5%	413.98
CV (%)	5.74

Table 26: Effect of planting density and nutrients management practices on the performance of hybrids in kharif season at Godhra.

Hybrids	Density	Nutrient levels	Grain yield (kg/ha)	Fodder yield (kg/ha)	Plants ('000/ha)	No of pods/ plant	Plant height (cm)	1000 seed weight (gm)	Primary branches /plant	Secondary branches/ plant
Gujarat Chickpea-1	60x25 cm	120:60:00	1444	1083	142	182	37	213.3	16.4	15.3
		140:30:37	1361	1028	144	192	35	213.3	14.9	12.9
		75:20:50	1389	1139	133	169	35	213.3	14.7	14.0
	60x20 cm	120:60:00	1333	1028	132	191	39	203.3	16.1	16.8
		140:30:37	1444	1028	132	162	40	200.0	13.8	17.4
		75:20:50	1444	1028	119	159	40	206.7	15.0	18.1
HQPM-1	60x25 cm	120:60:00	1472	1139	138	198	39	206.7	16.8	19.3
		140:30:37	1472	1222	140	193	40	213.3	13.8	19.8
		75:20:50	1500	1056	143	179	35	203.3	11.9	19.3
	60x20 cm	120:60:00	1528	1000	131	198	41	200.0	12.6	21.2
		140:30:37	1528	1139	137	174	41	213.3	12.9	24.1
		75:20:50	1361	1139	137	129	39	206.7	15.5	17.3
Mean of location			1439.8	1085.6	135.6	177.1	38.4	207.8	14.5	18.0
Gujarat Chickpea-1			1403	1057	133.6	175.7	37.6	208.3	15.1	15.8
HQPM-1			1477	1116	137.7	178.5	39.2	207.2	13.9	20.2
CD at 5%			71.8	NS	NS	NS	NS	NS	1.0	0.8
CV (%)			3.5	4.6	5.8	9.3	5.5	0.8	4.8	3.3
Significant			S	NS	NS	NS	NS	NS	S	S
60x20 cm			1440	1111	139.8	185.5	36.9	210.6	14.7	16.8
60x20 cm			1440	1060	131.5	168.7	39.9	205.0	14.3	19.1
CD at 5%			NS	NS	7.6	NS	1.3	NS	0.3	0.7
CV (%)			4.6	5.1	6.1	11.2	3.6	2.9	2.2	4.4
Significant			NS	NS	S	NS	S	NS	S	S
120:60:00			1444	1063	135.6	192.3	39.0	205.8	15.5	18.1
140:30:37			1451	1104	138.4	180.1	38.7	210.0	13.8	18.6
75:20:50			1424	1090	132.9	159.0	37.5	207.5	14.3	17.2
CD at 5%			NS	NS	NS	11.4	0.7	NS	0.6	0.8
CV (%)			3.9	4.6	5.6	7.4	2.2	3.6	4.9	5.1
Significant			NS	NS	NS	S	S	NS	S	S

Table 27: Long - term trial on integrated nutrient management in maize wheat cropping system at Pantnagar.

Treatment	Grain yield wheat (kg/ha)	Straw yield wheat (kg/ha)	Maize equivalent yield of wheat (kg/ha)	Maize grain yield 2014 (kg/ha)	Maize equivalent yield of maize-wheat system (kg/ha)	Net return of wheat (`/ha)	B:C ratio of wheat
T1	2445	4111	2234	3430	5664	12990	0.67
T2	4667	8556	4265	5481	9746	32706	1.12
T3	4400	8423	4021	5035	9056	29174	1.00
T4	4211	8178	3848	3894	7742	26671	0.92
T5	3089	5023	2823	5348	8171	21530	1.11
T6	2956	4689	2701	5183	7884	19763	1.02
T7	4956	9045	4529	5660	10188	36534	1.25
T8	4545	8211	4153	4640	8793	31087	1.07
T9	4867	8812	4447	5146	9593	35357	1.21
T10	3967	7289	3625	4387	8011	23431	0.80
Mean	4010.2	7233.7	3664.5	4820.3	8484.8	26924.2	1.02
CD	152.8	268.5	139.6	212.5	185.0	2024.3	0.08
CV (%)	2.2	2.2	2.2	2.6	1.3	4.4	4.49
Significance	S	S	S	S	S	S	S

Treatment	Plant height (cm)	No. of tillers/hill	Spike length (cm)	Effective tillers/m^2	Days to spike initiation	Days to maturity	100 grain weight (g)
T1	78.2	8.2	6.8	66.7	83.3	142.0	3.4
T2	104.0	10.6	8.6	88.3	79.3	134.3	4.0
T3	103.8	10.3	8.3	86.7	77.7	136.3	3.7
T4	99.3	9.9	7.9	73.3	78.3	139.7	3.5
T5	86.2	9.7	7.9	75.0	82.7	141.3	3.8
T6	84.8	9.4	7.7	78.3	78.0	138.0	3.8
T7	105.9	11.2	8.9	92.7	78.0	131.7	4.1
T8	100.3	10.1	7.7	81.7	79.3	136.0	3.6
T9	102.2	10.8	7.9	86.7	79.3	137.3	4.0
T10	81.8	8.9	7.4	73.3	83.7	141.3	3.4
Mean	94.7	9.9	7.9	80.3	80.0	137.8	3.7
CD	3.8	0.5	1.0	4.7	0.9	3.3	0.4
CV (%)	2.4	3.0	7.7	3.4	0.7	1.4	6.0
Significance	S	S	S	S	S	S	S

Contd…..

Treatment	Total uptake by wheat (kg/ha)			Total uptake by maize kharif 2014			Total uptake by system		
	N	P	K	N	P	K	N	P	K
T1	87.8	13.8	100.6	153.6	14.3	33.2	241.3	28.0	133.8
T2	114.7	18.8	127.7	234.9	23.0	68.8	349.6	41.8	196.4
T3	112.8	18.1	119.1	225.1	21.1	53.7	337.9	39.2	172.8
T4	107.6	17.4	117.9	210.5	16.0	40.3	318.1	33.4	158.2
T5	100.5	14.9	105.4	183.9	20.9	48.2	284.4	35.8	153.6
T6	105.8	16.6	108.8	229.9	21.8	60.1	335.7	38.4	168.9
T7	120.5	21.9	134.7	245.1	23.7	69.9	365.6	45.5	204.6
T8	112.4	19.3	120.4	236.1	18.7	47.1	348.5	38.0	167.5
T9	118.1	19.4	133.7	228.8	20.6	51.4	346.9	40.0	185.1
T10	109.4	15.6	111.5	176.5	19.5	48.0	285.9	35.1	159.5
Mean	109.0	17.6	118.0	212.4	19.9	52.1	321.4	37.5	170.0
CD	4.9	1.1	2.4	14.9	1.1	4.8	15.3	1.5	5.1
CV (%)	2.6	3.8	1.2	4.1	3.3	5.4	2.8	2.4	1.8
Significance	S	S	S	S	S	S	S	S	S

Treatment	Soil pH	Electrical conductivity (dS/m)	Organic carbon (%)	Bulk density (Mg/m^3)	At wheat harvest 2014-15/maize sowing 2015 kharif		
					Available N (kg/ha)	Available P (kg/ha)	Available K (kg/ha)
T1	7.0	0.14	0.76	1.39	166.0	20.9	145.4
T2	7.0	0.13	0.90	1.38	187.4	26.7	157.3
T3	6.9	0.13	0.84	1.38	185.2	25.5	153.8
T4	5.0	0.14	0.81	1.41	180.2	23.2	150.9
T5	6.8	0.12	1.01	1.36	174.5	21.8	151.0
T6	6.9	0.11	1.07	1.32	180.9	22.3	153.2
T7	6.8	0.11	0.97	1.36	194.2	28.7	159.5
T8	6.8	0.10	0.93	1.35	188.5	26.0	155.3
T9	6.9	0.12	0.80	1.41	187.5	26.5	155.7
T10	6.8	0.11	0.84	1.39	172.1	24.2	148.7
Mean	6.7	0.12	0.89	1.38	181.7	24.6	153.1
CD	1.9	0.03	0.07	0.04	4.4	1.5	1.5
CV (%)	16.4	13.33	4.50	1.68	1.4	3.5	0.6
Significance	N.S.	N.S.	S	S	S	S	S

Treatment details:

T1	Unmanured	T6	Maize + cowpea with FYM 10 t/ha + Azotobactor
T2	100% RDF	T7	100% RDF + 5 t/ha FYM
T3	75% RDF	T8	50% RDF + 5 t/ha FYM
T4	50% RDF	T9	100% RDF + 5 kg Zn/ha
T5	FYM 10 t/ha + Azotobactor	T10	FYM 5 t/ha (state practice)

PATHOLOGY

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Abbreviations used:

1. ARBH Arbhavi
2. DHOL Dholi
3. HYDE Hyderabad
4. LUDH Ludhiana
5. MAND Mandya

1. C. rot Charcoal rot
2. C. rust Common rust
8. SDM Sorghum downy mildew
9. TLB Turcicum leaf blight

1. MPT Maize Pathology Trial
2. R Resistant
3. MR Moderately Resistant
5. MS Moderately Susceptible
6. S Susceptible
7. HS Highly Susceptible

Executive Summary

A total of 140 genotypes were evaluated (Table 1 to 5) during *Rabi* 2014-15 against major diseases of maize under artificially created epiphytotics at various hot spot locations i.e. sorghum downy mildew (SDM) at Mandya; charcoal rot (C. Rot) at Arabhavi, Ludhiana and Hyderabad; Turcicum leaf blight (TLB) at Dholi and Mandya , Common rust (C. Rust) at Karnal. Promising hybrids are mentioned below:

MPT 1. Evaluation of maize genotypes in IVT Late maturity for various maize diseases during *Rabi* 2014-15

A total of 9 genotypes out of 40 tested were resistant/ moderately resistant to different diseases (Table 1). Promising ones are given below:

S. No.	Genotype	Resistant	Moderately resistant
1.	CCH 4039	TLB	C.ROT, C.RUST
2.	DMRH 1423	TLB	C. ROT, C.RUST
3.	JKMH 4023	TLB	C.ROT
4.	HT 142107	TLB	C.ROT
5.	Genesis MH-102	TLB	C.ROT, C.RUST
6.	GMH 275	TLB	C.ROT
7.	PM14201L	TLB	C.ROT
8.	GK 3153	TLB	C.ROT, C.RUST
9.	VEH 14-2	TLB	C.ROT

MPT 2. Evaluation of maize genotypes in IVT Medium maturity for various maize diseases during *Rabi* 2014-15

A total of 11 genotypes out of 33 tested were resistant/ moderately resistant to different diseases (Table 2). Promising ones are given below:

S. No.	Genotype	Resistant	Moderately resistant
1.	BH 412067	TLB	C.ROT
2.	PM 142096M	TLB	C.ROT
3.	MMHQPM-09-2014	TLB	C.ROT, C.RUST
4.	KNMH 4010131	TLB	C.ROT
5.	DMRH 1420	TLB	C.ROT, C.RUST
6.	MMHQPM-010-2014	TLB	C.RUST
7.	BH 412065	TLB	C.ROT
8.	BH 412064	TLB	C.ROT, SDM
9.	DMRH 1422	TLB	C.ROT
10.	BH 412044	TLB	C.ROT
11.	DMRH 1421	C.ROT	TLB, C.RUST

MPT 3. Evaluation of maize genotypes in AVT-II and AVT-I Late maturity for various maize diseases during *Rabi* 2014-15

A total of 10 genotypes out of 39 tested were resistant/ moderately resistant to different diseases (Table 3). Promising ones are given below:

S. No.	Genotype	Resistant	Moderately resistant
	AVT-II LATE		
1.	GK 3150	TLB	C.ROT
2.	P3533	TLB	C.ROT, C.RUST
3.	Venus	TLB	C.RUST
4.	TH 2	TLB	C.ROT, C.RUST
5.	IL 8534	TLB	C.ROT
	AVT-I LATE		
6.	HTMH 5108	TLB	C.ROT
7.	GK 3118	TLB	C.ROT
8.	CP .333	TLB	C.ROT
9.	Rasi 864	TLB	C.ROT
10.	Bio9681-C	TLB	C.RUST

MPT 4. Evaluation of maize genotypes in AVT-II and AVT-I Medium maturity for various maize diseases during *Rabi* 2014-15

A total of 6 genotypes out of 18 tested were resistant/ moderately resistant to different diseases (Table 4). Promising ones are given below:

S. No.	Genotype	Resistant	Moderately resistant
	AVT-II Medium		
1.	DKC 9155(IL8536)	TLB	C.ROT
2.	DKC9135(IJ 8521)	TLB	
	AVT-I Medium		
3.	GPS MAINA	TLB	C.ROT, C.RUST
4.	DMRH1307	TLB	C.ROT
5.	IM 8303 (DKC9166)	TLB	C.ROT, C.RUST
6.	DMRH1306	TLB	C.ROT, C.RUST, SDM

MPT 5. Evaluation of maize genotypes in AVT-II, AVT-I and QPM I-II Early maturity for various maize diseases during *Rabi* 2014-15

A total of 4 genotypes out of 10 tested were resistant/ moderately resistant to different diseases (Table 5). Promising ones are given below:

S. No.	Genotype	Resistant	Moderately resistant
	AVT –II-EARLY		
1.	HKH 329*	TLB	C.ROT, C.RUST
2.	HKH 330*	TLB	C.ROT, C.RUST
	AVT –I EARLY		
	QPMI-II		
3.	VEHQ 14-1-QPM1	TLB	C.ROT, C.RUST
4.	HQPM 1-C	TLB	C.ROT, C.RUST

MPT 6. Management of post flowering stalk rot at Arabhavi

Pseudomonas fluorescens @ 0.5% seed treatment and incubated FYM (1:50) recorded significantly lower disease severity of PFSR and higher yield followed by local strains of fungal antagonists @ 0.5% as seed treatment and incubated FYM (1:50). (Table- 6)

Table 1: Evaluation of maize genotypes in IVT Late maturity for various maize diseases during *Rabi* 2014-15

Sl.No	Genotype	TLB (1-5)					C. ROT (1-9)					
		MAND	DHOL	Av. Score	Range	Reaction	HYDE	ARBH	LUDH	Av. Score	Range	Reaction
1	IP 8510	3.3	1.5	2.4	1.5-3.3	MR	2.5	6.5	4.6	4.5	2.5-6.5	MR
2	CCH 4039	2.5	1.5	2.0	1.5-2.5	R	2.8	5.0	5.2	4.3	2.8-5.2	MR
3	SYN427210	2.8	3.5	3.2	2.8-3.5	MS	3.2	7.0	4.6	4.9	3.2-7.0	MR
4	DMRH 1423	2.0	2.0	2.0	2.0-2.0	R	2.2	6.5	5.0	4.6	2.2-6.5	MR
5	PM14202L	2.5	2.5	2.5	2.5-2.5	MR	4.5	7.0	5.6	5.7	4.5-7.0	MS
6	Rasi 394	2.5	2.0	2.3	2.0-2.5	MR	2.7	6.0	3.4	4.0	2.7-6.0	MR
7	SYN426702	2.5	2.0	2.3	2.0-2.5	MR	1.8	7.0	3.4	4.1	1.8-7.0	MR
8	PM14206L	2.5	2.5	2.5	2.5-2.5	MR	5.4	6.0	5.5	5.6	5.4-6.0	MS
9	HKH 424	2.3	2.0	2.2	2.0-2.3	MR	3.9	6.0	4.6	4.8	3.9-6.0	MR
10	JKMH 4023	2.5	1.0	1.8	1.0-2.5	R	2.9	5.0	4.9	4.3	2.9-5.0	MR
11	SMH 3903	3.0	2.0	2.5	2.0-3.0	MR	3.2	7.5	5.9	5.5	3.2-7.5	MS
12	JH 295	3.8	2.0	2.9	2.0-3.8	MR	4.8	8.0	4.2	5.7	4.2-8.0	MS
13	PM14204L	1.5	3.0	2.3	1.5-3.0	MR	3.1	6.5	6.2	5.3	3.1-6.5	MS
14	PM14208L	3.0	2.5	2.8	2.5-3.0	MR	1.5	7.0	4.3	4.3	1.5-7.0	MR
15	KH 2847	2.5	2.5	2.5	2.5-2.5	MR	1.4	6.5	4.8	4.2	1.4-6.5	MR
16	HT 142107	2.0	2.0	2.0	2.0-2.0	R	1.5	6.0	4.8	4.1	1.5-6.0	MR
17	SHIATS MS-3	2.5	2.0	2.3	2.0-2.5	MR	1.9	6.5	5.0	4.5	1.9-6.5	MR
18	CP .444	2.5	3.0	2.8	2.5-3.0	MR	3.2	6.0	4.8	4.7	3.2-6.0	MR
19	Genesis MH-102	1.5	2.0	1.8	1.5-2.0	R	3.3	7.0	4.1	4.8	3.3-7.0	MR
20	GMH 275	1.5	2.5	2.0	1.5-2.5	R	2.3	6.0	2.6	3.6	2.3-6.0	MR
21	PM14201L	1.5	1.5	1.5	1.5-1.5	R	1.4	6.5	4.7	4.2	1.4-6.5	MR
22	CCH 1040	2.0	3.0	2.5	2.0-3.0	MR	1.5	7.5	4.0	4.3	1.5-7.5	MR
23	KH 2977	2.3	2.0	2.2	2.0-2.3	MR	2.3	7.0	4.8	4.7	2.3-7.0	MR
24	PM14203L	2.8	2.5	2.7	2.5-2.8	MR	1.4	7.0	5.0	4.5	1.4-7.0	MR
25	PM14205L	2.5	2.0	2.3	2.0-2.5	MR	4.1	6.5	5.5	5.4	4.1-6.5	MS
26	JH 357	3.5	2.5	3.0	2.5-3.5	MR	1.7	8.0	6.7	5.5	1.7-8.0	MS
27	KMH 3812	3.3	3.5	3.4	3.3-3.5	MS	4.6	8.0	4.7	5.8	4.6-8.0	MS
28	NMH 1290	1.8	2.5	2.2	1.8-2.5	MR	2.7	7.0	5.1	4.9	2.7-7.0	MR
29	GK 3124	2.0	2.5	2.3	2.0-2.5	MR	2.3	6.5	5.2	4.7	2.3-6.5	MR
30	PM14207L	2.0	4.0	3.0	2.0-4.0	MR	1.8	7.5	3.3	4.2	1.8-7.5	MR

Contd.

Sl.No	Genotype	TLB (1-5)					C. ROT (1-9)					
		MAND	DHOL	Av. Score	Range	Reaction	HYDE	ARBH	LUDH	Av. Score	Range	Reaction
31	GK 3153	2.0	1.5	1.8	1.5-2.0	R	2.5	7.0	4.5	4.7	2.5-7.0	MR
32	GMH 909	2.0	2.5	2.3	2.0-2.5	MR	1.7	5.5	4.0	3.7	1.7-5.5	MR
33	IM 8119	3.0	2.0	2.5	2.0-3.0	MR	1.5	7.0	4.6	4.4	1.5-7.0	MR
34	JH 409	2.5	2.5	2.5	2.5-2.5	MR	4.0	7.0	3.3	4.8	3.3-7.0	MR
35	DKC 9150	3.0	2.5	2.8	2.5-3.0	MR	4.7	5.5	6.2	5.5	4.7-6.2	MS
36	VEH 14-2	2.0	2.0	2.0	2.0-2.0	R	1.7	6.5	4.3	4.2	1.7-6.5	MR
37	VEH 14-1	2.5	2.5	2.5	2.5-2.5	MR	3.4	6.5	4.5	4.8	3.4-6.5	MR
38	Seedtech 2324-C	2.5	2.5	2.5	2.5-2.5	MR	1.6	7.5	4.6	4.6	1.6-7.5	MR
39	Bio9681-C	2.3	2.0	2.2	2.0-2.3	MR	2.8	7.5	3.4	4.6	2.8-7.5	MR
40	Buland-C	3.0	2.5	2.8	2.5-3.0	MR	3.1	6.5	6.1	5.2	3.1-6.5	MS
41	SUS. CHECK	4.8	4.5	4.7	4.5-4.8	S	5.1	8.0	7.0	6.7	5.1-8.0	MS
42	RES. CHECK	2.0	-	2.0	2.0	R	1.4	-		1.4	1.4	R

RESISTANT CHECK-TLB: MANDYA (NAH 1137)
SUSCEPTIBLE CHECK- TLB : DHOLI (CML 186);MANDYA (CM 202)

Contd.

Sl.No	Genotype	C.RUST (1-5)		SDM (%)	
		KARN	Reaction	MAND	Reaction
1	IP 8510	3.0	MS	85.3	S
2	CCH 4039	1.6	MR	87.5	S
3	SYN427210	1.9	MR	88.9	S
4	DMRH 1423	1.4	MR	92.9	S
5	PM14202L	3.2	S	52.5	S
6	Rasi 394	3.0	MS	85.3	S
7	SYN426702	2.4	MS	76.3	S
8	PM14206L	2.1	MS	78.1	S
9	HKH 424	1.9	MR	82.1	S
10	JKMH 4023	2.7	MS	76.5	S
11	SMH 3903	2.8	MS	72.1	S
12	JH 295	1.7	MR	76.5	S
13	PM14204L	1.9	MR	81.6	S
14	PM14208L	2.1	MS	59.4	S
15	KH 2847	2.4	MS	79.4	S
16	HT 142107	2.2	MS	90.0	S
17	SHIATS MS-3	2.3	MS	100.0	S
18	CP .444	3.3	S	96.7	S
19	Genesis MH-102	1.7	MR	100.0	S
20	GMH 275	2.3	MS	100.0	S
21	PM14201L	2.7	MS	76.7	S
22	CCH 1040	2.3	MS	82.1	S
23	KH 2977	3.1	S	81.7	S
24	PM14203L	2.4	MS	82.0	S
25	PM14205L	1.9	MR	86.7	S
26	JH 357	2.5	MS	76.7	S
27	KMH 3812	1.9	MR	24.5	MR
28	NMH 1290	1.9	MR	100.0	S
29	GK 3124	1.8	MR	100.0	S
30	PM14207L	2.2	MS	100.0	S

Sl.No	Genotype	C.RUST (1-5)		SDM (%)	
		KARN	Reaction	MAND	Reaction
31	GK 3153	1.9	MR	83.3	S
32	GMH 909	3.6	S	51.3	S
33	IM 8119	2.8	MS	93.3	S
34	JH 409	2.0	MR	85.7	S
35	DKC 9150	2.4	MS	85.3	S
36	VEH 14-2	2.3	MS	72.0	S
37	VEH 14-1	1.4	MR	51.2	S
38	Seedtech 2324-C	1.5	MR	87.5	S
39	Bio9681-C	2.1	MS	23.6	MR
40	Buland-C	1.6	MR	70.5	S
41	SUS. CHECK	3.6	S	82.4	S
42	RES. CHECK	1.9	MR	7.7	R

RESISTANT CHECK-C. RUST: KARNAL(HQPM-1)
SUSCEPTIBLE CHECK- C. RUST: KARNAL (HKI536 YN),
SDM: MANDYA(CM 500);

Table 2: Evaluation of maize genotypes in IVT Medium maturity for various maize disease during *Rabi* 2014-15

Sl.No	Genotype	TLB (1-5)					C. ROT (1-9)					
		MAND	DHOL	Av. Score	Range	Reaction	HYDE	ARBH	LUDH	Av. Score	Range	Reaction
1	BH 412067	2.0	1.0	1.5	1.0-2.0	R	2.4	6.0	6.3	4.9	2.4-6.3	MR
2	PM 142096M	1.5	1.5	1.5	1.5-1.5	R	2.9	5.0	5.2	4.4	2.9-5.2	MR
3	MMHQPM-09-2014	1.5	2.5	2.0	1.5-2.5	R	3.9	6.0	4.6	4.8	3.9-6.0	MR
4	KNMH 4010131	1.5	2.5	2.0	1.5-2.5	R	1.7	6.0	3.7	3.8	1.7-6.0	MR
5	DMRH 1420	1.5	2.5	2.0	1.5-2.5	R	1.4	4.0	4.8	3.4	1.4-4.8	MR
6	MMHQPM-010-2014	1.3	1.5	1.4	1.3-1.5	R	3.9	6.5	5.5	5.3	3.9-6.5	MS
7	IHQ 091	3.8	2.5	3.2	2.5-3.8	MS	2.7	6.0	3.6	4.1	2.7-6.0	MR
8	HKH 346	1.3	3.5	2.4	1.3-3.5	MR	3.4	6.0	5.1	4.8	3.4-6.0	MR
9	BH 412066	1.5	5.0	3.3	1.5-5.0	MS	1.8	5.5	3.0	3.4	1.8-5.5	MR
10	BH 412065	1.5	2.5	2.0	1.5-2.5	R	1.6	6.5	4.1	4.1	1.6-6.5	MR
11	BLH 102	2.5	2.0	2.3	2.0-2.5	MR	1.7	5.5	5.6	4.3	1.7-5.6	MR
12	BH 412064	1.5	2.0	1.8	1.0-2.0	R	1.6	5.0	3.5	3.4	1.6-5.0	MR
13	KH 518	3.0	2.5	2.8	2.5-3.0	MR	1.4	7.0	3.5	4.0	1.4-7.0	MR
14	IH 031	3.8	2.0	2.9	2.0-3.8	MR	4.8	6.0	5.4	5.4	4.8-6.0	MS
15	IHQ 092	3.3	2.0	2.7	2.0-3.3	MR	5.6	6.0	6.5	6.0	5.6-6.5	MS
16	DMRH 1422	1.5	2.0	1.8	1.5-2.0	R	1.7	6.0	3.7	3.8	1.7-6.0	MR
17	HKH 345	3.0	1.5	2.3	1.5-3.0	MR	2.8	4.5	5.0	4.1	2.8-5.0	MR
18	BH 412044	1.5	2.5	2.0	1.5-2.5	R	1.7	5.0	3.4	3.4	1.7-5.0	MR
19	BLH 101	1.3	3.5	2.4	1.3-3.5	MR	3.0	5.5	4.8	4.4	3.0-5.5	MR
20	MMHQPM-07-2014	2.5	3.5	3.0	2.5-3.5	MR	3.1	6.5	6.5	5.4	3.1-6.5	MS
21	DMRH 1419	2.0	2.5	2.3	2.0-2.5	MR	1.8	6.0	3.4	3.7	1.8-6.0	MR
22	BH 412055	2.0	3.5	2.8	2.0-3.5	MR	1.9	6.0	4.7	4.2	1.9-6.0	MR
23	CP .222	3.0	1.5	2.3	1.5-3.0	MR	1.7	6.5	3.7	4.0	1.7-6.5	MR
24	IM 8013	3.3	3.0	3.2	3.0-3.3	MS	3.2	7.0	6.1	5.4	3.2-7.0	MS
25	HT 1412081	2.5	2.5	2.5	2.5-2.5	MR	4.4	6.5	5.1	5.3	4.4-6.5	MS
26	MMHQPM-11-2014	2.0	2.5	2.3	2.0-2.5	MR	1.6	5.5	3.6	3.6	1.6-5.5	MR
27	BH 412062	2.0	3.5	2.8	2.0-3.5	MR	1.6	5.5	3.3	3.5	1.6-5.5	MR
28	MMHQPM-08-2014	2.3	2.5	2.4	2.3-2.5	MR	3.1	6.0	5.1	4.7	3.1-6.0	MR
29	DMRH 1410	3.0	4.5	3.8	3.0-4.5	MS	2.4	6.0	4.8	4.4	2.4-6.0	MR
30	KH K 85	3.5	4.0	3.8	3.5-4.0	MS	2.2	7.0	7.7	5.6	2.2-7.7	MS

Contd.

Sl.No	Genotype	TLB (1-5)					C. ROT (1-9)					
		MAND	DHOL	Av. Score	Range	Reaction	HYDE	ARBH	LUDH	Av. Score	Range	Reaction
31	DMRH 1421	1.5	3.5	2.5	1.5-3.5	MR	1.5	2.0	3.8	2.4	1.5-3.8	R
32	Bio9637-C	2.5	3.0	2.8	2.5-3.0	MR	2.3	6.0	3.0	3.8	2.3-6.0	MR
33	HM10-C	2.0	2.5	2.3	2.0-2.5	MR	1.8	6.5	3.6	4.0	1.8-6.5	MR
34	SUS. CHECK	4.3	5.0	4.7	4.3-5.0	S	5.3	8.5	8.1	7.3	5.3-8.5	S
35	RES. CHECK	2.5	-	2.5	2.5	MR	1.8	-	-	1.8	1.8	R

RESISTANT CHECK-TLB: MANDYA (NAH 1137)
SUSCEPTIBLE CHECK- TLB : DHOLI (CML 186);MANDYA (CM 202)

Contd.

Sl.No	Genotype	C.RUST (1-5)		SDM (%)	
		KARN	Reaction	MAND	Reaction
1	BH 412067	2.7	MS	83.3	S
2	PM 142096M	2.2	MS	89.3	S
3	MMHQPM-09-2014	1.9	MR	61.1	S
4	KNMH 4010131	2.4	MS	80.2	S
5	DMRH 1420	1.9	MR	61.9	S
6	MMHQPM-010-2014	1.9	MR	85.7	S
7	IHQ 091	2.4	MS	75.3	S
8	HKH 346	2.3	MS	83.3	S
9	BH 412066	2.3	MS	36.0	MS
10	BH 412065	2.4	MS	65.4	S
11	BLH 102	2.0	MR	66.8	S
12	BH 412064	2.7	MS	25.0	MR
13	KH 518	2.1	MS	63.5	S
14	IH 031	1.9	MR	25.0	MR
15	IHQ 092	1.9	MR	84.6	S
16	DMRH 1422	2.9	MS	87.5	S
17	HKH 345	1.6	MR	85.0	S
18	BH 412044	2.9	MS	87.6	S
19	BLH 101	2.1	MS	66.5	S
20	MMHQPM-07-2014	2.6	MS	24.0	MR
21	DMRH 1419	2.2	MS	100.0	S
22	BH 412055	1.7	MR	38.7	MS
23	CP .222	2.6	MS	68.8	S
24	IM 8013	2.7	MS	81.8	S
25	HT 1412081	2.4	MS	90.0	S
26	MMHQPM-11-2014	1.9	MR	62.5	S
27	BH 412062	1.6	MR	65.8	S
28	MMHQPM-08-2014	1.9	MR	84.6	S
29	DMRH 1410	3.2	S	66.7	S
30	KH K 85	3.1	S	100.0	S

Sl.No	Genotype	C.RUST (1-5)		SDM (%)	
		KARN	Reaction	MAND	Reaction
31	DMRH 1421	1.9	MR	100.0	S
32	Bio9637-C	1.6	MR	93.8	S
33	HM10-C	2.6	MS	84.4	S
34	SUS. CHECK	3.6	S	84.0	S
35	RES. CHECK	1.5	MR	6.7	R

RESISTANT CHECK-C. RUST: KARNAL(HQPM-1)

SUSCEPTIBLE CHECK- C. RUST: KARNAL (HKI536 YN),**SDM:** MANDYA(C

Table 3: Evaluation of maize genotypes in AVT-II and AVT-I Late maturity for various maize diseases during *Rabi 2014-15*

Sl.No	Genotype	TLB (1-5)					C. ROT (1-9)					
		MAND	DHOL	Av. Score	Range	Reaction	HYDE	ARBH	LUDH	Av. Score	Range	Reaction
	AVT-II LATE											
1	X35C537	2.8	3.5	3.2	2.8-3.5	MS	1.7	6.5	5.6	4.6	1.7-6.5	MR
2	GK 3150	1.5	2.5	2.0	1.5-2.5	R	2.8	6.0	3.6	4.1	2.8-6.0	MR
3	Ivori	2.0	3.0	2.5	2.0-3.0	MR	2.3	6.5	7.1	5.3	2.3-7.1	MS
4	KMH 2589	1.8	3.5	2.7	1.8-3.5	MR	1.6	4.0	5.0	3.5	1.6-5.0	MR
5	TH 22	2.3	3.5	2.9	2.3-3.5	MR	1.6	5.5	4.5	3.9	1.6-5.5	MR
6	P3533	1.5	2.5	2.0	1.5-2.5	R	2.9	6.0	5.7	4.9	2.9-6.0	MR
7	Bisco X 6573	2.3	2.5	2.4	2.3-2.5	MR	1.9	6.0	4.2	4.0	1.9-6.0	MR
8	JH 270	2.3	3.0	2.7	2.3-3.0	MR	2.3	5.0	4.2	3.8	2.3-5.0	MR
9	DKC 9120	1.5	3.5	2.5	1.5-3.5	MR	1.7	5.0	5.6	4.1	1.7-5.6	MR
10	Venus	1.3	2.5	1.9	1.3-2.5	R	3.9	6.0	6.1	5.3	3.9-6.1	MS
11	TH 2	1.5	2.0	1.8	1.5-2.0	R	2.4	6.5	5.9	4.9	2.4-6.5	MR
12	PMH 189	2.3	2.5	2.4	2.3-2.5	MR	2.1	5.5	5.7	4.4	2.1-5.7	MR
13	PMH 2277	1.8	3.0	2.4	1.8-3.0	MR	2.8	6.5	4.2	4.5	2.8-6.5	MR
14	IL 8212	2.3	3.5	2.9	2.3-3.5	MR	1.5	4.5	4.5	3.5	1.5-4.5	MR
15	IL 8534	1.3	2.0	1.7	1.3-2.0	R	1.9	5.0	6.4	4.4	1.9-6.4	MR
16	Megan-G	2.8	3.0	2.9	2.8-3.0	MR	3.6	5.5	5.5	4.9	3.5-5.5	MR
	AVT-I LATE											
17	HTMH 5108	1.5	1.5	1.5	1.5-1.5	R	1.4	3.5	4.6	3.2	1.4-4.6	MR
18	IM 8222	2.5	2.5	2.5	2.5-2.5	MR	2.1	6.0	6.0	4.7	2.1-6.0	MR
19	GK 3118	1.5	2.5	2.0	1.5-2.5	R	4.0	6.0	4.3	4.8	4.0-6.0	MR
20	Rasi 950	2.0	3.0	2.5	2.0-3.0	MR	2.4	6.5	3.7	4.2	2.4-6.5	MR
21	CSM1	2.3	3.5	2.9	2.3-3.5	MR	2.1	5.0	5.0	4.0	2.1-5.0	MR
22	KH 3021	1.8	3.0	2.4	1.8-3.0	MR	1.9	6.5	6.0	4.8	1.9-6.5	MR
23	CP .111	2.0	3.5	2.8	2.0-3.5	MR	1.6	4.5	5.2	3.8	1.6-5.2	MR
24	HTMH 5202	2.3	4.5	3.4	2.3-4.5	MS	3.9	6.0	4.9	4.9	3.9-6.0	MR
25	KH 2192	2.8	3.0	2.9	2.8-3.0	MR	2.2	5.0	3.7	3.6	2.2-5.0	MR
26	JH 8837	2.5	3.5	3.0	2.5-3.5	MR	1.8	6.0	3.7	3.8	1.8-6.0	MR
27	CP .333	1.0	2.5	1.8	1.0-2.5	R	1.5	5.5	5.7	4.2	1.5-5.7	MR
28	GK 3155	2.5	2.5	2.5	2.5-2.5	MR	3.0	6.0	4.6	4.5	3.0-6.0	MR
29	CP .999	1.5	4.0	2.8	1.5-4.0	MR	2.6	6.5	4.1	4.4	2.6-6.5	MR

Contd.

Sl.No	Genotype	TLB (1-5)					C. ROT (1-9)					
		MAND	DHOL	Av. Score	Range	Reaction	HYDE	ARBH	LUDH	Av. Score	Range	Reaction
30	KMH 1411	2.5	3.5	3.0	2.5-3.5	MR	3.1	6.0	4.4	4.5	3.1-6.0	MR
31	JH 293	1.3	3.5	2.4	1.5-3.5	MR	1.5	6.0	4.9	4.1	1.5-6.0	MR
32	CP .838	2.3	3.5	2.9	2.3-3.5	MR	3.7	5.0	5.4	4.7	3.7-5.4	MR
33	DMRH1308	1.3	3.5	2.4	1.3-3.5	MR	1.5	5.5	4.8	3.9	1.5-5.5	MR
34	X35F880	2.3	2.5	2.4	2.3-2.5	MR	2.2	7.0	3.6	4.3	2.2-7.0	MR
35	Rasi 393	1.3	3.0	2.2	1.3-3.0	MR	1.4	6.5	4.6	4.2	1.4-6.5	MR
36	Rasi 864	1.3	2.0	1.7	1.3-2.0	R	2.4	6.5	3.7	4.2	2.4-6.5	MR
37	Seedtech 2324-C	1.5	3.5	2.5	1.5-3.5	MR	2.8	6.0	2.7	3.8	2.7-6.0	MR
38	Bio9681-C	1.5	2.5	2.0	1.5-2.5	R	4.8	6.0	5.8	5.5	4.8-6.0	MS
39	Buland-C	1.8	2.5	2.2	1.8-2.5	MR	3.2	6.5	6.0	5.2	3.2-6.5	MS
40	SUS. CHECK	4.3	4.5	4.4	4.3-4.5	S	5.9	8.0	6.9	6.9	5.9-8.0	MS
41	RES. CHECK	1.5	-	1.5	1.5	R	1.7	-		1.7	1.7	R

RESISTANT CHECK-TLB: MANDYA (NAH 1137)
SUSCEPTIBLE CHECK- TLB : DHOLI (CML 186);MANDYA (CM 202)

Contd.

Sl.No	Genotype	C.RUST (1-5)		SDM (%)	
		KARN	Reaction	MAND	Reaction
	AVT-II LATE				
1	X35C537	1.6	MR	74.1	S
2	GK 3150	2.1	MS	35.7	MS
3	Ivori	2.3	MS	91.2	S
4	KMH 2589	1.6	MR	100.0	S
5	TH 22	1.6	MR	71.9	S
6	P3533	1.8	MR	96.9	S
7	Bisco X 6573	2.1	MS	88.9	S
8	JH 270	3.3	S	62.2	S
9	DKC 9120	1.8	MR	77.8	S
10	Venus	2.0	MR	67.8	S
11	TH 2	2.0	MR	100.0	S
12	PMH 189	2.6	MS	57.1	S
13	PMH 2277	3.2	S	100.0	S
14	IL 8212	2.7	MS	88.9	S
15	IL 8534	2.3	MS	100.0	S
16	Megan-G	1.4	MR	100.0	S
	AVT-I LATE				
17	HTMH 5108	2.1	MS	43.1	MS
18	IM 8222	2.3	MS	100.0	S
19	GK 3118	2.1	MS	100.0	S
20	Rasi 950	1.6	MR	100.0	S
21	CSM1	1.4	MR	100.0	S
22	KH 3021	2.1	MS	93.3	S
23	CP .111	1.8	MR	93.3	S
24	HTMH 5202	2.1	MS	62.3	S
25	KH 2192	1.4	MR	86.2	S
26	JH 8837	1.8	MR	54.8	S
27	CP .333	2.3	MS	97.2	S
28	GK 3155	1.9	MR	97.1	S
29	CP .999	1.9	MR	94.4	S

Sl.No	Genotype	C.RUST (1-5)		SDM (%)	
		KARN	Reaction	MAND	Reaction
30	KMH 1411	1.6	MR	77.7	S
31	JH 293	1.9	MR	71.6	S
32	CP .838	3.1	S	76.9	S
33	DMRH1308	1.4	MR	31.8	MS
34	X35F880	2.1	MS	100.0	S
35	Rasi 393	1.6	MR	100.0	S
36	Rasi 864	2.5	MS	59.6	S
37	Seedtech 2324-C	1.4	MR	36.5	MS
38	Bio9681-C	1.6	MR	84.6	S
39	Buland-C	1.6	MR	50.3	S
40	SUS. CHECK	3.6	S	85.3	S
41	RES. CHECK	1.6	MR	16.7	MR

RESISTANT CHECK-C. RUST: KARNAL(HQPM-1)
SUSCEPTIBLE CHECK- C. RUST: KARNAL (HKI536 YN),**SDM:** MANDYA(CM 500);

Table 4: Evaluation of maize genotypes in AVT-II and AVT-I Medium maturity for various maize disease during *Rabi-2014-15*

Sl.No	Genotype	TLB (1-5)					C. ROT (1-9)					
		MAND	DHOL	Av. Score	Range	Reaction	HYDE	ARBH	LUDH	Av. Score	Range	Reaction
	AVT-II Medium											
1	PMH 2246	1.5	3.0	2.3	1.5-3.0	MR	1.7	5.5	3.6	3.6	1.7-5.5	MR
2	HKH 325*	2.8	2.0	2.4	2.0-2.8	MR	1.8	5.5	3.1	3.5	1.8-5.5	MR
3	DKC 9155(IL8536)	2.0	2.0	2.0	2.0-2.0	R	2.1	4.5	4.6	3.7	2.1-4.5	MR
4	DKC 9142(IJ 8214)	1.8	2.5	2.2	1.8-2.5	MR	2.4	5.0	4.4	3.9	2.4-5.0	MR
5	KH K26	2.0	2.5	2.3	2.0-2.5	MR	3.2	5.5	5.9	4.9	3.2-5.9	MR
6	DKC9135(IJ 8521)	1.3	1.5	1.4	1.3-1.5	R	2.7	6.5	6.7	5.3	2.7-6.7	MS
	AVT-I Medium											
7	GPS MAINA	1.5	2.5	2.0	1.5-2.5	R	2.4	6.0	4.0	4.1	2.4-6.0	MR
8	BL 798	2.3	3.5	2.9	2.3-3.5	MR	3.7	5.0	6.2	5.0	3.7-6.2	MR
9	DMRH1307	1.3	1.0	1.2	1.0-1.3	R	2.6	5.0	4.3	4.0	2.6-5.0	MR
10	IM 8303 (DKC9166)	1.3	2.5	1.9	1.3-2.5	R	2.5	4.0	5.3	3.9	2.5-5.3	MR
11	DMRH1306	1.3	2.5	1.9	1.3-2.5	R	1.7	6.5	3.9	4.0	1.7-6.5	MR
12	DMRH1302	2.8	3.5	3.2	2.8-3.5	MS	2.3	5.5	4.3	4.0	2.3-5.5	MR
13	BL 147	2.5	2.0	2.3	2.0-2.5	MR	3.0	6.5	4.0	4.5	3.0-6.5	MR
14	DMRH1301	1.3	4.5	2.9	1.3-4.5	MR	1.4	5.0	5.0	3.8	1.4-5.0	MR
15	BL 900	2.0	3.0	2.5	2.0-3.0	MR	2.9	4.5	5.9	4.4	2.9-5.9	MR
16	KH 517	2.5	3.5	3.0	2.5-3.5	MR	2.1	4.0	3.7	3.3	2.1-4.0	MR
17	CSM2	1.5	3.0	2.3	1.5-3.0	MR	1.6	6.5	4.5	4.2	1.6-6.5	MR
18	Bio9637-C	2.5	2.5	2.5	2.5-2.5	MR	2.9	7.0	3.5	4.5	2.9-7.0	MR
19	SUS. CHECK	4.3	4.5	4.4	4.3-4.5	S	5.5	8.0	6.0	6.5	5.5-8.0	MS
20	RES. CHECK	1.3	-	1.3	1.3	R	1.7	-	-	1.7	1.7	R

Contd.

RESISTANT CHECK-TLB: MANDYA (NAH 1137)
SUSCEPTIBLE CHECK- TLB : DHOLI (CML 186);MANDYA (CM 202)

Sl.No	Genotype	C.RUST (1-5)		SDM (%)	
		KARN	Reaction	MAND	Reaction
	AVT-II Medium				
1	PMH 2246	2.1	MS	90.6	S
2	HKH 325*	1.7	MR	100.0	S
3	DKC 9155(IL8536)	2.5	MS	87.5	S
4	DKC 9142(IJ 8214)	2.1	MS	86.7	S
5	KH K26	2.2	MS	45.4	MS
6	DKC9135(IJ 8521)	2.5	MS	100.0	S
	AVT-II Medium				
7	GPS MAINA	2.0	MR	96.7	S
8	BL 798	1.7	MR	100.0	S
9	DMRH1307	2.3	MS	76.3	S
10	IM 8303 (DKC9166)	2.0	MR	93.9	S
11	DMRH1306	1.7	MR	24.3	MR
12	DMRH1302	1.7	MR	23.0	MR
13	BL 147	1.7	MR	42.9	MS
14	DMRH1301	2.2	MS	57.5	S
15	BL 900	2.0	MR	36.5	MS
16	KH 517	1.9	MR	24.0	MR
17	CSM2	2.0	MR	58.3	S
18	Bio9637-C	2.0	MR	25.0	MR
19	SUS. CHECK	3.6	S	100.0	S
20	RES. CHECK	1.4	MR	10.2	MR

Table 5: Evaluation of maize genotypes in AVT-II, AVT-I and QPM I-II Early maturity for various maize disease during *Rabi* 2014-15

Sl.No	Genotype	TLB (1-5)					C. ROT (1-9)					
		MAND	DHOL	Av. Score	Range	Reaction	HYDE	ARBH	LUDH	Av. Score	Range	Reaction
	AVT –II-EARLY											
1	KH K25	2.0	3.0	2.5	2.0-3.0	MR	3.1	6.0	6.6	5.2	3.1-6.6	MS
2	HKH 329*	1.3	2.5	1.9	1.3-2.5	R	1.9	6.0	5.9	4.6	1.9-6.0	MR
3	HKH 330*	1.5	1.5	1.5	1.5-1.5	R	3.0	6.5	5.4	5.0	3.0-6.5	MR
	AVT –I EARLY											
4	HKH 336*	2.5	2.0	2.3	2.0-2.5	MR	2.4	5.5	5.6	4.5	2.4-5.6	MR
5	Prakash-C	3.0	3.5	3.3	3.0-3.5		3.6	6.0	5.7	5.1	3.6-6.0	
	QPMI-II											
6	MMHQPM-6-12-13-QPI	2.3	2.5	2.4	2.3-2.5	MR	3.7	6.5	4.7	5.0	3.7-6.5	MR
7	VEHQ 14-1-QPM1	1.3	2.5	1.9	1.3-2.5	R	1.6	4.5	4.1	3.4	1.6-4.5	MR
8	HQPM 1-C	1.3	2.0	1.7	1.3-2.0	R	1.9	6.0	5.4	4.4	1.9-6.0	MR
9	HQPM 5-C	1.8	3.0	2.4	1.8-3.0	MR	2.1	6.0	3.6	3.9	2.1-6.0	MR
10	HM9-FILLER	3.3	4.5	3.9	3.3-4.5		4.1	5.5	6.0	5.2	4.1-6.0	MS
11	SUS. CHECK	4.3	4.5	4.4	4.3-4.5	S	5.0	8.0	6.9	6.6	5.0-8.0	MS
12	RES. CHECK	2.3	-	2.3	2.3	MR	2.3	-		2.3	2.3	R

Contd.

RESISTANT CHECK-TLB: MANDYA (NAH 1137)
SUSCEPTIBLE CHECK- TLB : DHOLI (CML 186);MANDYA (CM 202)

Sl.No	Genotype	C.RUST (1-5)		SDM (%)	
		KARN	Reaction	MAND	Reaction
	AVT –II-EARLY				
1	KH K25	1.4	MR	88.2	S
2	HKH 329*	1.8	MR	92.3	S
3	HKH 330*	1.7	MR	100.0	S
	AVT –I EARLY				
4	HKH 336*	1.7	MR	100.0	S
5	Prakash-C	2.2	MS	81.3	S
	QPMI-II				
6	MMHQPM-6-12-13-QPMII	1.7	MR	100.0	S
7	VEHQ 14-1-QPM1	1.9	MR	100.0	S
8	HQPM 1-C	1.7	MR	100.0	S
9	HQPM 5-C	2.3	MS	100.0	S
10	HM9-FILLER	1.7	MR	100.0	S
11	SUS. CHECK	3.9	S	19.6	MR
12	RES. CHECK	1.6	MR	100.0	S

RESISTANT CHECK-C. RUST: KARNAL(HQPM-1)
SUSCEPTIBLE CHECK- C. RUST: KARNAL (HKI536 YN),**SDM:** MANDYA(CM 500);

Table 6: Management of post flowering stalk rot (PFSR) at Arabhavi

Season	:	*Rabi*	Row No.	:	6
Replication	:	3	Row Length	:	3 m.
Date of Sowing	:	27.11.2014	Date of Observation	:	26.03.2015
Name of susceptible check	:	G 25	Date of Harvesting	:	27.03.2015

Sl. No.	Treatments	Disease severity	Grain yield (q/ha)
1	TH-3 @ 0.5% as seed treatment and incubated FYM (1:50)	85.18 (67.38)	19.05
2	*P. fluorescens* @ 0.5% as seed treatment and incubated FYM (1:50)	71.10 (57.47)	26.22
3	*Trichoderma harzianum* Dharwad 1(Local strain) @ 0.5% as seed treatment and incubated FYM (1:50)	77.03 (61.71)	26.16
4	Spraying of muriate of potash @ 2% at 30 days after planting	79.99 (63.49)	22.70
5	Propiconazole @ 0.1% spray at 40 DAS	81.47 (64.49)	19.93
6	Double dose of muriate of potash at 45 DAS	83.70 (66.23)	19.57
7	Untreated check	94.06 (76.55)	19.64
	SEm	**1.99**	**1.09**
	CD (p=0.05)	**5.96**	**3.26**
	CV %	**5.31**	**8.49**

P. fluorescens @ 0.5 % as seed treatment and incubated FYM (1:50) has recorded significantly lowers disease severity and superior yield (26.22 q/ha) as compared to check followed by local strains of fungal antagonists @ 0.5% as seed treatment and incubated FYM (1:50) (26.16 q/ha). Spraying of muriate of potash @ 2% at 30 days after planting recorded significantly lower PFSR. The untreated check has given lowest yield (19.64 q/ha). Propiconazole @ 0.1% spray at 40 DAS and double the dose of muriate of potash at 45 DAS were also on par with untreated check.

Table 7:Meteorological data, AICRP (Maize) Rabi 2014-15 at Mandya

1. Year: 2014-15
2. Season: Rabi
3. Location: ZARS, VC Farm, Mandya
4. Soil type: Light red sandy loam
5. Longitude: 76^0
6. Altitude: 695 N
7. Weather data:

Meteorological details	Nov-14	Dec 2014	Jan-15	Feb-15	Mar-2015
Max. Tem. (^{0}C)	29.30	28.0	29.0	31.1	33.5
Min. Temp (^{0}C)	17.02	16.0	14.2	13.7	17.6
RH (%) at 0730 hrs	90.20	90.0	90.0	79.8	80.7
RH (%) at 1400 hrs	50.02	53.0	47.1	44.1	40.0
Total Rainfall (mm)	10.00	24.0	0.00	1.8	0.00
Sunshine hrs.	6.47	5.40	7.70	8.30	7.20

ENTOMOLOGY

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Entomology summary of AICRP rabi 2014-15 trials

Under AICRP trial, out of 39 maize enteries of late maturity group screened under artificial infestation by stem borer, *C. partellus* at Kolhapur, two enteries, DMR 830 (2.9) and DMR 844 (2.5) ; In medium maturity group, single entry DMR 863 (2.9); in early maturity-QPM group, DMR 891 (2.4) were found to be least susceptible. The same enteries when screened against *Sesamia inferens* at Maize Research Centre, ARI, Hyderabad, were found to be moderately susceptible except DMR 868 (6.7) in medium maturity group; DMR 893 (6.6) and DMR 896 (6.2) in early maturity QPM group which were observed to be highly susceptible. No entry among the test entries showed least susceptibility towards *S inferens*.

The third year screening of inbred lines against *S. inferens* at WNC, Hyderabad resulted in two entries WNZEXOTICPOOLDC2 (2.6) and WNAPBTL6 (3.0) to be least susceptible. The infestation levels of *S. inferens* and the yield data of fifteen cobs of each level has been generated for calculating the crop loss due to *S. inferens*.

Trial No. 11

Evaluation of maize entries under artificial infestation for AVT I and II

Location: Kolhapur

Experimental details: 4 x 0.75 m, 120:60:40

Trial Name	No. of entries / Repl.	Date of sowing	Date of germination	Date of infestation	Date of Observations
AVT –I-II (Late)	39/2	16/01/2015	24/01/2015	06-07/02/2015	07/03/2015
AVT –I-II (Medium)	18/2	16/01/2015	23/01/2015	05/02/2015	05/03/2015
AVT –I-II (Early-QPM)	10/2	16/01/2015	23/01/2015	05/02/2015	05/03/2015

Table 1: Mean LIR of AICRP lines against *C. partellus* under artificial infestation during Rabi 2014-15

1) Trial 11: AVT –I-II (Late)

Sr. No.	Entry code	Mean LIR	Category of infestation
1	DMR 811	3.3	Moderately susceptible
2	DMR 812	4.9	Moderately susceptible
3	DMR 813	7.4	Highly susceptible
4	DMR 814	3.8	Moderately susceptible
5	DMR 815	5.5	Moderately susceptible
6	DMR 816	5.5	Moderately susceptible
7	DMR 817	6.8	Highly susceptible
8	DMR 818	7.6	Highly susceptible
9	DMR 819	5.5	Moderately susceptible
10	DMR 820	4.4	Moderately susceptible
11	DMR 821	5.7	Moderately susceptible
12	DMR 822	4.9	Moderately susceptible
13	DMR 823	6.6	Highly susceptible
14	DMR 824	5.8	Moderately susceptible

15	DMR 825	5.7	Moderately susceptible
16	DMR 826	6.9	Highly susceptible
17	DMR 827	5.6	Moderately susceptible
18	DMR 828	4.4	Moderately susceptible
19	DMR 829	4.2	Moderately susceptible
20	**DMR 830**	**2.9**	**Least susceptible**
21	DMR 831	6.7	Highly susceptible
22	DMR 832	4.7	Moderately susceptible
23	DMR 833	5.8	Moderately susceptible
24	DMR 834	5.2	Moderately susceptible
25	DMR 835	6.3	Highly susceptible
26	DMR 836	6.5	Highly susceptible
27	DMR 837	7.8	Highly susceptible
28	DMR 838	4.1	Moderately susceptible
29	DMR 839	5.9	Moderately susceptible
30	DMR 840	7.1	Highly susceptible
31	DMR 841	5.8	Moderately susceptible
32	DMR 842	5.0	Moderately susceptible
33	DMR 843	6.2	Highly susceptible
34	**DMR 844**	**2.5**	**Least susceptible**
35	DMR 845	3.1	Moderately susceptible
36	DMR 846	6.9	Highly susceptible
37	DMR 847	6.3	Highly susceptible
38	DMR 848	7.9	Highly susceptible
39	DMR 849	6.7	Highly susceptible

2) Trial 11: AVT –I-II (Medium)

Sr. No.	Entry Code	Mean LIR	Category of infestation
1	DMR 861	5.6	Moderately susceptible
2	DMR 862	3.3	Moderately susceptible
3	DMR 863	2.9	Least susceptible
4	DMR 864	4.5	Moderately susceptible
5	DMR 865	3.4	Moderately susceptible
6	DMR 866	4.4	Moderately susceptible
7	DMR 867	3.7	Moderately susceptible
8	DMR 868	5.4	Moderately susceptible
9	DMR 869	4.1	Moderately susceptible
10	DMR 870	4.8	Moderately susceptible
11	DMR 871	4.0	Moderately susceptible

12	DMR 872	4.4	Moderately susceptible
13	DMR 873	4.9	Moderately susceptible
14	DMR 874	4.8	Moderately susceptible
15	DMR 875	4.5	Moderately susceptible
16	DMR 876	3.9	Moderately susceptible
17	DMR 877	4.9	Moderately susceptible
18	DMR 878	5.0	Moderately susceptible

3) Trial 11: AVT –I-II (Early-QPM)

Sr. No.	Entry Code	Mean LIR	Category of infestation
1	DMR 891	2.4	Least susceptible
2	DMR 892	4.3	Moderately susceptible
3	DMR 893	3.1	Moderately susceptible
4	DMR 894	3.1	Moderately susceptible
5	DMR 895	4.7	Moderately susceptible
6	DMR 896	3.9	Moderately susceptible
7	DMR 897	3.9	Moderately susceptible
8	DMR 898	3.5	Moderately susceptible
9	DMR 899	3.8	Moderately susceptible
10	DMR 900	3.9	Moderately susceptible

Evaluation of Maize AICRP trials against *S.inferens* under artificial infestation for AVT I & AVT II

Trial No: 11

Location: Maize Research Centre, ARI, Rajendranagar, Hyderabad

Table 2: Mean LIR of AICRP lines against *S. inferens* under artificial infestation during Rabi 2014-15

Trial 11: Late maturity

Sr. No.	DMR Code	Mean	Category of infestation
1	DMR 811	4.6	Moderately Susceptible
2	DMR 812	3.9	Moderately Susceptible
3	DMR 813	3.4	Moderately Susceptible
4	DMR 814	3.3	Moderately Susceptible
5	DMR 815	3.9	Moderately Susceptible

6	DMR 816	3.7	Moderately Susceptible
7	DMR 817	4.5	Moderately Susceptible
8	DMR 818	5.0	Moderately Susceptible
9	DMR 819	4.9	Moderately Susceptible
10	DMR 820	2.5	Moderately Susceptible
11	DMR 821	4.4	Moderately Susceptible
12	DMR 822	4.2	Moderately Susceptible
13	DMR 823	5.3	Moderately Susceptible
14	DMR 824	3.8	Moderately Susceptible
15	DMR 825	5.2	Moderately Susceptible
16	DMR 826	4.0	Moderately Susceptible
17	DMR 827	4.1	Moderately Susceptible
18	DMR 828	3.9	Moderately Susceptible
19	DMR 829	3.2	Moderately Susceptible
20	DMR 830	3.4	Moderately Susceptible
21	DMR 831	4.2	Moderately Susceptible
22	DMR 832	3.4	Moderately Susceptible
23	DMR 833	3.1	Moderately Susceptible
24	DMR 834	3.8	Moderately Susceptible
25	DMR 835	3.6	Moderately Susceptible
26	DMR 836	4.8	Moderately Susceptible
27	DMR 837	3.8	Moderately Susceptible
28	DMR 838	4.1	Moderately Susceptible
29	DMR 839	3.1	Moderately Susceptible
30	DMR 840	3.5	Moderately Susceptible
31	DMR 841	5.1	Moderately Susceptible
32	DMR 842	3.5	Moderately Susceptible
33	DMR 843	5.5	Moderately Susceptible
34	DMR 844	4.7	Moderately Susceptible
35	DMR 845	4.1	Moderately Susceptible
36	DMR 846	5.0	Moderately Susceptible
37	DMR 847	4.0	Moderately Susceptible
38	DMR 848	3.8	Moderately Susceptible
39	DMR 849	3.6	Moderately Susceptible

Trial – 11: Medium Maturity

Date of sowing: 22-12-2014 Date of infestation: 16-01-2015

Sr. No.	DMR Code	Mean	Category of infestation
1	DMR 861	5.2	Moderately Susceptible
2	DMR 862	5.7	Moderately Susceptible
3	DMR 863	4.0	Moderately Susceptible
4	DMR 864	4.4	Moderately Susceptible

5	DMR 865	4.4	Moderately Susceptible
6	DMR 866	5.1	Moderately Susceptible
7	DMR 867	3.7	Moderately Susceptible
8	DMR 868	6.7	Highly Susceptible
9	DMR 869	4.7	Moderately Susceptible
10	DMR 870	4.5	Moderately Susceptible
11	DMR 871	4.1	Moderately Susceptible
12	DMR 872	3.9	Moderately Susceptible
13	DMR 873	3.2	Moderately Susceptible
14	DMR 874	4.2	Moderately Susceptible
15	DMR 875	4.1	Moderately Susceptible
16	DMR 876	3.3	Moderately Susceptible
17	DMR 877	4.8	Moderately Susceptible
18	DMR 878	5.5	Moderately Susceptible

Trial – 11: Early-QPM

Date of sowing: 22-12-2014
Date of infestation: 16-01-2015

Sr. No.	DMR Code	Mean	Category of infestation
1	DMR 891	5.4	Moderately Susceptible
2	DMR 892	5.8	Moderately Susceptible
3	DMR 893	6.6	Moderately Susceptible
4	DMR 894	4.8	Moderately Susceptible
5	DMR 895	5.8	Moderately Susceptible
6	DMR 896	6.2	Highly Susceptible
7	DMR 897	5.4	Moderately Susceptible
8	DMR 898	5.8	Moderately Susceptible
9	DMR 899	5.3	Moderately Susceptible
10	DMR 900	5.0	Moderately Susceptible

Table 3. Screening of maize inbred lines against *Sesamia inferens* during rabi 2014-15 (3rd year) under artificial infestation at WNC, Hyderabad

Sr. No	Pedigree	Mean LIR (1-9 scale)	Category of infestation
1	WNZEXOTICPOOLDC2	2.6	Least Susceptible
2	WNZPBTL6	3.0	Least Susceptible
3	DMRE63	3.1	Moderately Susceptible
4	WNZPBTL9	3.6	Moderately Susceptible
5	WNZPBTL8	3.7	Moderately Susceptible

6	E60FC	3.9	Moderately Susceptible
7	CML338	4.2	Moderately Susceptible
8	WNZPBTL5	4.4	Moderately Susceptible
9	WNZ EXOTICPOOL1A	4.7	Moderately Susceptible
10	LTP1	5.1	Moderately Susceptible
11	WNZ SYNTHETIC	5.6	Moderately Susceptible
12	WIN POP21	7.4	Highly Susceptible
13	CML424	8.2	Highly Susceptible
14	CML451(Susceptible Check)	7.1	Highly Susceptible
15	CM500 (Resistant Check)	4.0	Moderately Susceptible
CD(5%)	Two Control Treatments	1.76	
	Two Test Treatments	2.50	

LIR Vs. Yield relationship for *S. inferens*
Maize hybrid: DHM 117
Date of sowing: 18-12-2014
Date of infestation: 12-01-2015

Table 4: Grain yield (g) of maize at different LIR at Hyderabad

LIR	Grain yield (14% moisture) (g)	
	Grain yield (15 cobs)	Grain yield/cob
1	3190	212.67
2	2380	158.67
3	2060	137.33
4	2040	136.00
5	1880	125.33
6	1480	98.67
7	1310	87.33
8	180	12.00
9	0	0.00

Location: Karnal
Variety: HQPM1, DHM 117, Basi Local

Table 5: Grain yield (g) of maize at different LIR at Karnal

LIR	Grain yield (14% moisture) (g)		
	HQPM 1	**DHM 117**	**Basi Local**
1	171.57	182.03	50.75
2	171.44	182.25	50.22
3	173.09	181.05	48.70
4	170.24	177.81	45.95
5	171.50	177.32	46.15
6	144.01	150.24	36.69
7	133.23	132.77	26.29
8	118.09	111.15	22.89
9	56.24	50.31	11.28

ICAR-CIMMYT Collaboration

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Table No.	Trial Code	Trial Description	Management	Centre	No. Entries	Replications	Page No.
Executive Summary of ICAR-CIMMYT Technical Programme - Rabi 2014-15							i
Pedigree Details of Trials							IC1 -- IC7
1	AUTC-15	Advanced stage medium maturity yellow hybrids-Set 9	Abiotic Stress	ARS, Karimnagar	60	2	IC8 - IC9
2	AUTC-17	Advanced stage medium maturity yellow hybrids-Set 9	Optimum	SDAU, Biloda	60	2	IC10 - IC12
3	AUTC-23	Advanced stage medium maturity yellow hybrids-Set 6	Optimum	AAU, Godra	20	2	IC13
4	AUTC-24	Advanced stage medium maturity yellow hybrids-Set 6	Abiotic Stress	ARS, Karimnagar	20	2	IC14
5	AUTC-26	Advanced stage medium maturity yellow hybrids-Set 6	Optimum	SDAU, Biloda	20	2	IC15
6	AUTC-35	Advanced stage medium maturity yellow hybrids-Set 8	Abiotic Stress	ARS, Karimnagar	55	2	IC16 - IC17
7	AUTC-37	Advanced stage medium maturity yellow hybrids-Set 8	Optimum	SDAU, Biloda	55	2	IC18 - IC20
8	AUTC-210	Advanced stage medium maturity yellow hybrids-Set 6	Optimum	AAU, Godra	20	2	IC21
9	AS2BH-13	Advanced stage medium maturity yellow hybrids-Set 5	Optimum	AAU, Godra	10	3	IC22
10	AS2BH-14	Advanced stage medium maturity yellow hybrids-Set 5	Abiotic Stress	ARS, Karimnagar	10	3	IC22
11	AS2BH-16	Advanced stage medium maturity yellow hybrids-Set 5	Optimum	SDAU, Biloda	10	3	IC23
12	AS2BH-310	Advanced stage medium early-maturity yellow hybrids-Set 7	Abiotic Stress	ARS, Karimnagar	25	3	IC24
13	AS2BH-312	Advanced stage medium early-maturity yellow hybrids-Set 7	Optimum	SDAU, Biloda	25	3	IC25 -IC26
14	CAT-1440	Advanced stage medium maturity yellow hybrids-Set 4	Optimum	BAU, Ranchi	10	3	IC27
15	CAT-1441	Advanced stage medium maturity yellow hybrids-Set 5	Optimum	BAU, Ranchi	10	3	IC27
16	CAT-1442	Advanced stage medium maturity yellow hybrids-Set 6	Optimum	BAU, Ranchi	10	3	IC27
17	CAT-1443	Advanced stage medium early-maturity yellow hybrids-Set 7	Optimum	BAU, Ranchi	15	3	IC28
18	CAT-1444	Advanced stage medium maturity yellow hybrids-Set 8	Optimum	BAU, Ranchi	55	2	IC29 -IC30
19	CAT-1445	Advanced stage medium maturity yellow hybrids-Set 9	Optimum	BAU, Ranchi	60	2	IC31 -IC32

Executive Summary of ICAR-CIMMYT Technical Programme 2014-15

The present report comprises the results of trials conducted during Rabi 2014-15 as part of the ICAR-CIMMYT Technical Programme 2014-15. 19 trials were conducted across four locations *viz.,* ARS, Karimnagar, BAU, Ranchi AAU, Godra and SDAU, Biloda. All the trials comprise yellow maize hybrids of medium / medium-early maturity groups. Out of 19 trials five trials at ARS, Karimnagar were conducted under Abiotic stress condition (drought), whereas in the remaining locations they were conducted under optimum management conditions. The number of entries in different trials were varied between 10 to 60 and were conducted either two or three replications. The mean values of all the observation taken during the experiment were given in Table 1 to 19. Whereas the pedigree details of each entry in different trials are given separately in the pedigree details section.

Trial Name: AUTC-15, AUTC-17

Centres: Karimnagar, Bhiloda

Entry	Stock ID	Name	Pedigree
1	Z540-1	.	CML486=P45c8-76-1-2-1-2-B*13-B/CL02450
2	Z540-2	.	NEI9008-BBB-B/CL02450
3	Z540-3	.	CA00310-BBB-B/CL02450
4	Z540-4	.	CLQRCYQ59-B*4-B/CL02450
5	Z540-6	.	(NEI9202-B/BLSB-R(China)-BB-5-B/CL02450
6	Z540-7	.	(NEI9008-B/BLSB-R(China)-BB-20-B/CL02450
7	Z540-8	.	(NEI9202-B/BLSB-R(China)-BB-7-B/CL02450
8	Z540-10	.	(CA14514-8-1-2-B/CA00106-9-B-2-B)-BB-3-2-B/CL02450
9	Z540-12	.	(DMSyn-C1)-12-1-B/CL02450
10	Z540-13	.	(DMSyn-C1)-15-2-B/CL02450
11	Z540-15	.	(DMSyn-C1)-21-2-B/CL02450
12	Z540-17	.	(DMSyn-C1)-42-1-B/CL02450
13	Z540-18	.	(DMSyn-C1)-44-2-B/CL02450
14	Z540-19	.	(DMSyn-C1)-46-1-B/CL02450
15	Z540-20	.	CA03147-B*8/CL02450
16	Z540-21	.	CA14514-8-3-2-B*7/CL02450
17	Z540-22	.	(CLQ-RCYQ28xP390Am/CMLc4F218-B-1-B)-B-43-1-BB-2-B*8/CL02450
18	Z540-23	.	(CLQ-RCYQ28xP390Am/CMLc4F218-B-1-B)-B-6-2-B*10/CL02450
19	Z540-24	.	(CML161xCLQ-RCYQ31)-B-10-3-BB-3-B*9/CL02450
20	Z540-25	.	[CML327xCML287]F2-32-1-B*5-1-B*9/CL02450
21	Z540-26	.	[CML327xCML287]F2-32-1-B*5-2-B*9/CL02450
22	Z540-27	.	CLQ-6603-B-1-B*9/CL02450
23	Z540-28	.	P45c8-164-1-1-2-8-B*4-2-B*9/CL02450
24	Z540-29	.	(CLQ-RCYQ28xP390Am/CMLc4F218-B-1-B)-B-43-1-BB-2-B*8/CL02450
25	Z540-30	.	[(87036/87923)-X-800-3-1-X-1-BB-1-1-1-BB-xP84c1F26-2-2-4-B-2-B]F47-3-1-1-3xM37W/ZM607#bF37sr-2-3sr-6-2-X]-8-2-X-1-BBB-xP84c1F27-4-3-3-B-1-B]-3-2-BxP33c3F64-1-1-4-BB]-1-2-B*6/CL02450
26	Z540-31	.	[CML226x[CATETODC1276/7619]-2-B-5-2-B]F2-10-1-B*12/CL02450
27	Z540-32	.	[CML327xCML287]F2-32-1-B*5-1-B*9/CL02450
28	Z540-34	.	CA03139-6-7-1-B*8/CL02450
29	Z540-36	.	POB45c9F210-17-1-2-B*13/CL02450
30	Z540-37	.	(CML165xKI45)-B-14-1-B*4-1-B*8/CL02450
31	Z540-38	.	CA00370/(AMATLC0HS133-1-F/R)-1-3-1-2-5-B*16/CL02450
32	Z540-39	.	CLQG2508-B*9/CL02450
33	Z540-40	.	CML70-2-B*7/CL02450
34	Z540-41	.	P390amC3/285x287F73-3-2-3xMIRTC5AmF96-1-1-1-3-1)-1-1-B*9/CL02450
35	Z540-42	.	P31C4S5B-23-##-6-B*6-1-4-2-B*6/CL02450
36	Z540-43	.	P31C4S5B-23-##-6-B*6-1-1-1-B*6/CL02450
37	Z540-44	.	G18SeqC5F236-1-2-1-2-3-B*8/CL02450
38	Z540-45	.	CML164-B*9/CL02450
39	Z540-46	.	(CTS013058/(AMATLC0HS167-1-1-1-2F/R)-B*5/Nei402011)-B*12/CL02450
40	Z540-47	.	G33QC25MH103-31-5-1-B*6-1-B*7/CL02450

Entry	Stock ID	Name	Pedigree
41	Z540-48	.	(CML161xCLQ-RCYQ31)-B-12-2-BB-2-B*8/CL02450
42	Z540-49	.	CLRCY044-B*9/CL02450
43	Z540-50	.	(CTS013004/AMATLC0HS71-1-1-2-1-1-1-B*5/Ki45)-B*12/CL02450
44	Z540-51	.	CA00310/AMATLC0HS71-1-1-2-1-1-1-B*18/CL02450
45	Z540-53	.	CLQG2508-B*8/CL02450
46	Z540-55	.	(CL02450/CML470)-B-35(Unsel)-BB-1-BB/CL02450
47	Z540-56	.	(CL02450/CML470)-B-6(Unsel)-BB-2-BB/CL02450
48	Z540-57	.	(CML488/CML470)-B-16(Unsel)-BB-1-B/CL02450
49	Z540-58	.	(CML488/CML470)-B-25(Unsel)-BB-2-B/CL02450
50	Z540-59	.	(P31C4S5B-6-##-B*8/CML444)-B-46(Unsel)-BB-1-BB/CL02450
51	Z540-61	.	(P31C4S5B-6-##-B8/CTS011072)-B-13(Unsel)-BB-1-B/CL02450
52	Z540-63	.	((CA00388/KTX3752F2-7-1-1-2-B*9)/CML444)-Bp120-1-BBB-1-BBB/CL02450
53	Z540-65	.	(CL02450/CA00310)-B-79(Sel)-BBB-1-BBB/CL02450
54	Z540-67	.	(CML470/CA00388)-B-169(Sel)-BBB-2-BBB/CL02450
55	Z540-68	.	(CML470/CA00388)-B-2(Sel)-BBB-1-BBB/CL02450
56	Z540-69	.	(CML470/CA00388)-B-95(Sel)-BBB-1-BBB/CL02450
57	Z540-74	.	(G18SeqC5F19-1-2-1-2-4-BB/(CML165xKI45)-B-14-1-B*4-1)-B-7-B*7/CL02450
58	CP838	CP Seeds	CP Seeds
59	900MGold	Monsanto	Monsanto
60	Pio3396	Pioneer	Pioneer

Trial Name: AUTC-23, AUTC-24, AUTC-26, AUTC-210

Centres: Karimnagar, Bhiloda

Entry	Stock ID	Name	Pedigree
1	Z540-5	.	CLRCY030-B*4-B/CL02450
2	Z540-11	.	(CA14514-8-1-2-B/CA14514-9-4-2-B)-B-16-1-B/CL02450
3	Z540-14	.	(DMSyn-C1)-20-1-B/CL02450
4	Z540-16	.	(DMSyn-C1)-24-1-B/CL02450
5	Z540-33	.	[CML327xCML287]F2-32-1-B*5-2-B*9/CL02450
6	Z540-35	.	CLQRCYQ59-B*9/CL02450
7	Z540-54	.	(CL02450/CML470)-B-34(Unsel)-BB-2-BB/CL02450
8	Z540-60	.	(P31C4S5B-6-##-B8/CTS011072)-B-11(Unsel)-BB-3-BB/CL02450
9	Z540-62	.	(P31C4S5B-6-##-B8/CTS011072)-B-19(Unsel)-BB-1-B/CL02450
10	Z540-66	.	(CML451/CA00388)-B-113(Sel)-BBB-2-BBB/CL02450
11	Z540-70	.	(CML470/ZM523B-29-2-1-1-BBB)-B-22(Sel)-BBB-1-BB/CL02450
12	Z540-71	.	(CML473/ZM523B-29-2-1-1-BBB)-B(Unsel)-54-BB-1-BBB/CL02450
13	Z540-72	.	(P31C4S5B-6-##-B8/CTS011072)-B-7(Sel)-BBB-2-BBB/CL02450
14	Z540-75	.	(Pop61C1QPMTEYF-40-1-1-1-2-B-1/(CML161xCML451)-B-23-1-B*4-1)-B-5-B*4/CL02450
15	Z540-76	.	(Pop61C1QPMTEYF-54-2-1-1-2-B-1-B/Pop61C1QPMTEYF-40-1-1-1-2-B-1)-B-1-B*6/CL02450
16	DKC9108	.	Monsanto
17	CP838	.	CP Seeds
18	CP818	.	CP Seeds
19	30V92	.	Pioneer
20	CP838	.	CP Seeds

Trial Name: AUTC-35, AUTC-37

Centres: Karimnagar, Bhiloda

Entry	Stock ID	Name	Pedigree
1	Z541-1	.	CML486=P45c8-76-1-2-1-2-B*13-B/CML451
2	Z541-2	.	NEI9008-BBB-B/CML451
3	Z541-3	.	CA00310-BBB-B/CML451
4	Z541-4	.	CLQRCYQ59-B*4-B/CML451
5	Z541-6	.	(NEI9202-B/BLSB-R(China)-BB-5-B/CML451
6	Z541-8	.	(NEI9202-B/BLSB-R(China)-BB-7-B/CML451
7	Z541-13	.	(DMSyn-C1)-15-2-B/CML451
8	Z541-14	.	(DMSyn-C1)-20-1-B/CML451
9	Z541-15	.	(DMSyn-C1)-21-2-B/CML451
10	Z541-16	.	(DMSyn-C1)-24-1-B/CML451
11	Z541-17	.	(DMSyn-C1)-42-1-B/CML451
12	Z541-18	.	(DMSyn-C1)-44-2-B/CML451
13	Z541-19	.	(DMSyn-C1)-46-1-B/CML451
14	Z541-20	.	CA03147-B*8/CML451
15	Z541-22	.	(CLQ-RCYQ28xP390Am/CMLc4F218-B-1-B)-B-43-1-BB-2-B*8/CML451
16	Z541-24	.	(CML161xCLQ-RCYQ31)-B-10-3-BB-3-B*9/CML451
17	Z541-25	.	[CML327xCML287]F2-32-1-B*5-1-B*9/CML451
18	Z541-28	.	P45c8-164-1-1-2-8-B*4-2-B*9/CML451
19	Z541-29	.	(CLQ-RCYQ28xP390Am/CMLc4F218-B-1-B)-B-43-1-BB-2-B*8/CML451
20	Z541-31	.	[CML226x[CATETODC1276/7619]-2-B-5-2-B]F2-10-1-B*12/CML451
21	Z541-34	.	CA03139-6-7-1-B*8/CML451
22	Z541-36	.	POB45c9F210-17-1-2-B*13/CML451
23	Z541-38	.	CA00370/(AMATLC0HS133-1-F/R)-1-3-1-2-5-B*16/CML451
24	Z541-39	.	CLQG2508-B*9/CML451
25	Z541-40	.	CML70-2-B*7/CML451
26	Z541-42	.	P31C4S5B-23-##-6-B*6-1-4-2-B*6/CML451
27	Z541-43	.	P31C4S5B-23-##-6-B*6-1-1-1-B*6/CML451
28	Z541-44	.	G18SeqC5F236-1-2-1-2-3-B*8/CML451
29	Z541-48	.	(CML161xCLQ-RCYQ31)-B-12-2-BB-2-B*8/CML451
30	Z541-50	.	(CTS013004/AMATLC0HS71-1-1-2-1-1-1-B*5/Ki45)-B*12/CML451
31	Z541-51	.	CA00310/AMATLC0HS71-1-1-2-1-1-1-B*18/CML451
32	Z541-53	.	CLQG2508-B*8/CML451
33	Z541-54	.	(CL02450/CML470)-B-34(Unsel)-BB-2-BB/CML451
34	Z541-56	.	(CL02450/CML470)-B-6(Unsel)-BB-2-BB/CML451
35	Z541-58	.	(CML488/CML470)-B-25(Unsel)-BB-2-B/CML451
36	Z541-59	.	(P31C4S5B-6-##-B*8/CML444)-B-46(Unsel)-BB-1-BB/CML451
37	Z541-60	.	(P31C4S5B-6-##-B8/CTS011072)-B-11(Unsel)-BB-3-BB/CML451
38	Z541-61	.	(P31C4S5B-6-##-B8/CTS011072)-B-13(Unsel)-BB-1-B/CML451
39	Z541-62	.	(P31C4S5B-6-##-B8/CTS011072)-B-19(Unsel)-BB-1-B/CML451
40	Z541-63	.	((CA00388/KTX3752F2-7-1-1-2-B*9)/CML444)-Bp120-1-BBB-1-BBB/CML451
41	Z541-64	.	((CA00388/KTX3752F2-7-1-1-2-B*9)/CML444)-Bp98-1-BB-1-BBB/CML451
42	Z541-65	.	(CL02450/CA00310)-B-79(Sel)-BBB-1-BBB/CML451

Entry	Stock ID	Name	Pedigree
43	Z541-66	.	(CML451/CA00388)-B-113(Sel)-BBB-2-BBB/CML451
44	Z541-67	.	(CML470/CA00388)-B-169(Sel)-BBB-2-BBB/CML451
45	Z541-68	.	(CML470/CA00388)-B-2(Sel)-BBB-1-BBB/CML451
46	Z541-69	.	(CML470/CA00388)-B-95(Sel)-BBB-1-BBB/CML451
47	Z541-70	.	(CML470/ZM523B-29-2-1-1-BBB)-B-22(Sel)-BBB-1-BB/CML451
48	Z541-71	.	(CML473/ZM523B-29-2-1-1-BBB)-B(Unsel)-54-BB-1-BBB/CML451
49	Z541-72	.	(P31C4S5B-6-##-B8/CTS011072)-B-7(Sel)-BBB-2-BBB/CML451
50	Z541-75	.	(Pop61C1QPMTEYF-40-1-1-1-2-B-1/(CML161xCML451)-B-23-1-B*4-1)-B-5-B*4/CML451
51	CP838	CP Seeds	CP Seeds
52	CP818	CP Seeds	CP Seeds
53	30V92	Pioneer	Pioneer
54	900MGold	Monsanto	Monsanto
55	Pio3396	Pioneer	Pioneer

Trial Name: AS2BH-13, AS2BH-14, AS2BH-16

Centres: Karimnagar, Bhiloda

Entry	Stock ID	Name	Pedigree
1	Z539-1	.	CML452=Ac8328BNC6-166-1-1-1-B*13/[CML327xCML287]F2-32-1-B*5-1-B*5
2	Z539-3	.	CML452=Ac8328BNC6-166-1-1-1-B*13/WLCY2-7-1-2-1-5-B-2-3-1-2-2-B*6
3	Z539-5	.	DTPYC9-F38-5-2-1-1-2-2-1-B*4/(CML161xCML451)-B-18-1-B*4-2-B*5
4	Z539-7	.	CML486=P45c8-76-1-2-1-2-B*13/[GQL5/[GQL5/CML202]F2-3sx]-11-4-1-2-BB-1-BBB
5	Z539-9	.	S87P69Q(SIYF)131-2-2-1-B*5/WLCY2-7-1-2-1-5-B-2-2-2-2-1-B*7
6	Z539-11	.	S87P69Q(SIYF)131-2-2-1-B*5/CLQ6316-B*4
7	CP838	CP Seeds	CP Seeds
8	30V92	Pioneer	Pioneer
9	900MGold	Monsanto	Monsanto
10	Pio3396	Pioneer	Pioneer

Trial Name: AS2BH-310, AS2BH-312

Centres: Karimnagar, Bhiloda

Entry	Stock ID	Name	Pedigree
1	Z544-1	.	CA03139-BBB-2-B*5/(CML165xCL-02839)-B-22-1-1-BB-1-B*5
2	Z544-3	.	CA14507-BB-2-BBB-#/Pop61C1QPMTEYF-40-1-1-1-1-B-2-BB
3	Z544-5	.	CA14514-4-3-1-B*4/CML451-BB
4	Z544-6	.	CLQ-RCYQ36-B-1-B*6/CL02450
5	Z544-7	.	CLQRCYQ59-B*6/CML451-BB
6	Z544-9	.	[CML312/CML445//[TUXPSEQ]C1F2/P49-SR]F2-45-3-2-1-BBB]-1-2-1-1-2-B*4-#/CML451-BB
7	Z544-11	.	[CML329/MBRc2Am]F14-1-B*12/CML451-BB
8	Z544-12	.	(CTS013050/(AMATLC0HS167-1-1-1-2F/R)-B*5/Ki44)-B*9/CML451-BB
9	Z544-13	.	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F4-1-1-1-1-BBB/CML451-BB
10	Z544-14	.	DTPWC9-F115-1-4-1-2-2-1-3-B*5/CML451-BB
11	Z544-15	.	DTPWC9-F67-2-2-1-3-2-1-1-B*6/(CL-RCY016x(CML165xCLQ-6203)-B-54-1-1-BB)-B-20-2-BB-1-BB
12	Z544-17	.	DTPWC9-F67-2-2-1-B*5-##/CML451-BB
13	Z544-19	.	DTPYC9-F145-3-2-1-2-2-1-2-B*4/CML451-BB
14	Z544-20	.	DTPYC9-F46-1-2-1-2-B-#/CML451-BB
15	Z544-21	.	DTPYC9-F46-3-9-1-2-2-1-3-B*6-#/CML451-BB
16	Z544-23	.	F-167-3-1-1-1-1-2-1-#/CML451-BB
17	Z544-24	.	G18SeqC5F100-1-1-3-1-2-B*7/CML451-BB
18	Z544-25	.	S87P69Q(SIYF)109-1-1-4-B-#/CML451-BB
19	Z544-26	.	WLCY2-7-1-2-1-5-B-2-3-3-1-1-B/(CML165xCL-02839)-B-22-1-1-BB-1-B*5
20	Z545-1	.	F-252-1-1-1-2-1-1-1-#/CML451-BB
21	Z545-2	.	S87P69Q(SIYF)131-2-2-1-B*5-#-B/CML451-BB
22	CP838	CP Seeds	CP Seeds
23	30V92	Pioneer	Pioneer
24	Pio3396	Pioneer	Pioneer
25	900MGold	Monsanto	Monsanto

Trial Name: CAT-1140

Centres: Ranchi

Entry	Stock ID
1	Z540-7
2	Z 548-4
3	Z 549-7
4	Z 549-2
5	Z549-5
6	ZNK 40
7	Z 548-2
8	Z900M gold
9	Z548-9
10	30 V 92

Trial Name: CAT-1141

Centres: Ranchl

Entry	Stock ID
1	NK 6240
2	Z 544-18
3	Z 544-22
4	30 V 92
5	Z544-16
6	Z544-10
7	Z 544-27
8	Z544-8
9	Z544-4
10	Z544-2

Trial Name: CAT-1142

Centres: Ranchi

Entry	Stock ID
1	NK6240
2	Z 546-8
3	Z 546-5
4	NK6240
5	DKC9133
6	Z 546-3
7	Z 546-13
8	Z 546-12
9	Z546-1
10	Z 546-10

Trial Name: CAT-1143

Centres: Ranchi

Entry	Stock ID
1	Z547-15
2	CP838
3	Z 547-9
4	Z 547-10
5	Z547-2
6	Z547-13
7	Z 547-6
8	Pio 3396
9	Z547-18
10	Z547-16
11	Z547-4
12	30V 92
13	Z547-12

Trial Name: CAT-1143

Centres: Ranchi

Entry	Stock ID
14	Z547-1
15	Z547-7

Trial Name: CAT-1144

Centres: Ranchi

Entry	Stock ID
1	Z541-42
2	Z541-53
3	Z541-63
4	Z541-29
5	Z541-20
6	Z 541-40
7	Z541-51
8	Z541-28
9	NK 6240
10	Z541-72
11	Z541-68
12	Z541-39
13	Z541-22
14	Z541-4
15	Z541-43
16	30V 92
17	Z541-34
18	Z541-70
19	Z541-6
20	Z541-19
21	ZZ541-25
22	Z541-38
23	Z541-19
24	Z541-64
25	Z541-65
26	Z541-59
27	Z541-44
28	plo3396
29	Z541-36
30	Z541-54
31	Z541-15
32	Z541-69
33	900MGOLD
34	Z541-75
35	Z541-24
36	Z541-8
37	Z541-58
38	Z541-66
39	Z541-31
40	Z541-61
41	Z541-50
42	Z541-60
43	Z541-13
44	Z541-67
45	Z54116
46	Z541-18
47	Z541-48

Trial Name: CAT-1144

Centres: Ranchi

Entry	Stock ID
48	Z541-2
49	Z541-17
50	Z541-56
51	Z541-62
52	Z541-14
53	Z541-3
54	Z541-71
55	CP838

Trial Name: CAT-1145

Centres: Ranchi

Entry	Stock ID
1	Z540-12
2	pio3396
3	Z540-67
4	Z540-41
5	Z540-74
6	Z540-31
7	Z540-45
8	Z540-65
9	Z540-24
10	CP838
11	900Mgold
12	Z540-28
13	Z540-30
14	Z540-38
15	Z540-7
16	Z540-19
17	Z540-49
18	Z540-40
19	Z540-47
20	Z540-51
21	Z540-46
22	Z540-1
23	Z540-58
24	Z540-34
25	Z540-55
26	Z540-25
27	Z540-59
28	Z540-43
29	Z540-13
30	Z540-61
31	Z540-56
32	Z540-15
33	Z540-8
34	Z540-6
35	Z540-29
36	Z540-22
37	Z540-53
38	Z540-37
39	Z540-23
40	Z540-50
41	Z540-17

Trial Name: CAT-1145

Centres: Ranchi

Entry	Stock ID
42	Z540-57
43	Z540-20
44	Z540-3
45	Z540-42
46	Z540-32
47	Z540-39
48	Z540-27
49	Z540-26
50	Z540-10
51	Z540-63
52	Z540-36
53	Z540-21
54	Z540-68
55	Z540-2
56	Z540-18
57	Z540-48
58	Z540-69
59	Z540-44
60	Z540-4

Table 1. AUTC-15

Entry	DS	R	DT	R	EH	R	PH	R	SP	R	GY	R
1	76	12	74	10	69	17	162	3	79	19	4735	24
2	74	45	72	45	65	30	147	26	74	53	3070	52
3	75	33	73	29	79	1	160	5	73	58	5632	11
4	75	24	73	30	67	23	150	22	77	35	3893	36
5	74	56	71	57	68	19	143	34	79	20	5672	10
6	76	13	72	46	62	38	129	58	79	14	3459	47
7	75	34	73	17	72	8	166	1	78	32	2778	54
8	75	35	72	47	68	21	144	32	74	52	3074	51
9	75	25	73	18	63	36	140	45	75	50	5465	15
10	75	36	73	31	68	22	136	50	78	33	6094	6
11	77	4	73	19	59	48	132	57	77	36	2782	53
12	74	57	71	58	74	3	134	52	81	6	3702	41
13	75	37	73	32	59	49	155	9	80	12	4314	31
14	74	46	72	48	57	55	123	60	75	46	3736	40
15	75	26	72	49	62	39	133	53	79	15	2071	58
16	74	47	73	33	55	57	141	43	74	54	5920	9
17	76	10	74	6	66	26	151	18	79	16	5606	12
18	76	14	74	11	60	46	142	40	77	37	5143	19
19	75	38	74	12	58	52	136	49	75	47	3790	39
20	74	48	73	20	59	50	140	46	73	55	4398	30
21	76	15	73	34	69	18	161	4	81	7	6640	4
22	74	49	72	50	61	44	134	51	73	56	3246	49
23	75	27	73	21	70	13	155	10	77	38	3963	33
24	75	28	73	35	72	9	158	7	73	57	4893	22
25	77	5	74	7	61	45	132	55	76	39	2683	55
26	74	58	72	51	56	56	144	31	75	48	2214	57
27	76	16	73	22	58	53	143	35	79	17	3856	38
28	73	60	71	60	63	37	138	48	82	4	3627	42
29	77	6	74	13	74	4	146	29	78	34	4478	29
30	75	29	73	23	69	15	140	44	82	3	3894	35
31	76	17	74	14	72	6	151	19	79	21	3572	45
32	76	18	73	24	69	16	155	12	80	13	4702	25
33	78	1	75	1	75	2	142	41	80	9	3871	37
34	77	7	75	2	62	40	154	15	73	59	3585	44
35	75	30	73	25	62	41	147	27	82	5	5590	13
36	74	50	72	52	62	42	148	25	80	10	5270	17
37	76	19	73	26	66	27	155	11	76	40	3165	50
38	75	31	73	36	67	24	143	37	75	51	4519	28
39	74	51	72	53	67	25	146	28	78	25	6040	7
40	76	11	74	15	55	58	132	56	71	60	2001	59
41	77	8	75	3	72	10	150	20	76	44	3357	48
42	75	32	74	16	64	35	151	16	76	45	5104	20
43	77	9	75	4	68	20	144	30	79	22	3948	34
44	75	39	72	56	74	5	151	17	81	8	6912	3
45	75	40	73	37	72	7	150	21	76	41	4870	23
46	76	20	73	38	61	43	133	54	78	26	2642	56
47	75	41	73	39	59	51	143	36	78	27	3991	32
48	74	52	73	40	53	60	139	47	83	2	3494	46
49	74	53	72	54	57	54	149	24	80	11	5337	16
50	75	42	72	55	64	33	150	23	79	23	4581	27

Table 1. AUTC-15

Entry	DS	R	DT	R	EH	R	PH	R	SP	R	GY	R
51	75	43	73	41	70	14	155	13	75	49	5001	21
52	77	3	74	8	72	11	154	14	78	28	6365	5
53	76	21	74	9	65	31	142	38	76	42	1828	60
54	74	54	73	42	66	28	142	39	76	43	5575	14
55	76	22	73	43	71	12	144	33	85	1	4637	26
56	73	59	71	59	65	32	129	59	78	29	5238	18
57	75	44	73	27	54	59	141	42	78	30	3626	43
58	74	55	73	44	60	47	159	6	78	31	7893	1
59	78	2	75	5	66	29	156	8	79	24	7186	2
60	76	23	73	28	64	34	163	2	79	18	5987	8
General Mean	**74.97**	**.**	**72.78**	**.**	**64.67**	**.**	**145.30**	**.**	**77.35**	**.**	4411.63	.
p-Value	0.0261	.	0.0019	.	0.1605	.	0.0007	.	0.0616	.	0.0005	.
CV(%)	1.55	.	1.26	.	11.57	.	6.05	.	4.16	.	27.97	.
SE(d)	1.158	.	0.916	.	7.484	.	8.787	.	3.216	.	1233.86	.
Tukey HSD at 1%	5.6122	.	4.4374	.	NS	.	42.572	.	NS	.	5978	.

Table 2. AUTC-17

Plot	Rep	DT	DS	PH	EH	NoC	SP	GW	GM
1	1	90	96	169.0	90.0	18	81.05	1.24	9.70
2	1	89	95	147.0	72.0	17	79.84	0.99	10.60
3	1	89	95	149.0	68.0	16	78.50	0.42	8.60
4	1	82	88	128.0	55.0	15	82.71	0.89	9.60
5	1	88	95	161.0	78.0	19	78.00	0.78	9.60
6	1	88	95	134.0	70.0	17	78.18	0.67	9.80
7	1	88	95	160.0	77.0	19	80.14	1.15	11.90
8	1	85	90	139.0	69.0	15	79.20	0.66	10.70
9	1	86	90	161.0	87.0	14	77.85	0.62	9.50
10	1	83	88	154.0	81.0	16	81.38	1.01	9.80
11	1	90	96	147.0	88.0	18	81.27	1.22	11.70
12	1	88	92	155.0	71.0	15	75.82	0.69	9.70
13	1	88	93	143.0	74.0	8	83.33	0.55	10.70
14	1	88	93	152.0	83.0	13	81.73	0.81	11.10
15	1	88	93	147.0	77.0	19	76.06	0.99	10.50
16	1	82	87	150.0	70.0	15	79.88	1.05	10.00
17	1	86	90	136.0	77.0	13	78.83	0.54	10.10
18	1	90	96	170.0	92.0	13	81.32	1.05	12.00
19	1	88	92	162.0	93.0	14	76.82	0.85	9.40
20	1	83	88	155.0	74.0	16	83.39	1.16	10.00
21	1	79	83	159.0	80.0	19	81.55	1.11	9.60
22	1	88	92	158.0	84.0	12	78.05	0.80	9.70
23	1	90	96	162.0	92.0	14	81.50	0.71	12.00
24	1	79	83	157.0	76.0	18	80.44	0.81	9.40
25	1	84	88	167.0	79.0	14	78.95	0.87	10.40
26	1	90	96	159.0	94.0	17	79.43	0.83	10.10
27	1	88	91	143.0	73.0	11	80.24	0.85	11.50
28	1	88	91	173.0	87.0	15	84.57	1.14	14.70
29	1	89	93	143.0	75.0	15	76.29	0.83	11.10
30	1	83	88	152.0	74.0	20	79.17	1.52	10.20
31	1	85	91	142.0	76.0	13	81.13	1.08	11.90
32	1	87	92	162.0	83.0	20	75.44	0.95	10.10
33	1	87	92	163.0	81.0	8	77.06	0.42	9.50
34	1	87	92	162.0	80.0	14	77.33	1.18	11.90
35	1	82	90	158.0	75.0	9	83.33	0.58	12.50
36	1	88	93	171.0	71.0	11	75.35	0.59	10.40
37	1	89	92	156.0	70.0	11	77.28	0.42	9.50
38	1	89	93	152.0	78.0	14	75.24	0.78	16.10
39	1	88	93	128.0	57.0	9	81.97	0.40	9.10
40	1	88	93	143.0	76.0	13	81.28	1.03	12.80
41	1	85	90	126.0	64.0	9	77.23	0.37	10.10
42	1	88	93	167.0	96.0	16	73.39	0.91	9.70
43	1	83	87	145.0	80.0	9	80.36	0.45	9.20
44	1	88	93	162.0	88.0	8	80.85	0.57	10.20
45	1	90	95	147.0	66.0	9	77.78	0.39	10.60
46	1	90	96	143.0	65.0	11	75.19	0.49	9.60
47	1	85	90	122.0	45.0	11	80.00	0.44	9.60
48	1	84	90	147.0	72.0	12	77.44	0.52	9.70
49	1	84	88	148.0	76.0	12	83.23	0.70	9.60
50	1	88	94	157.0	81.0	10	72.90	0.39	9.70

IC11

Plot	Rep	DT	DS	PH	EH	NoC	SP	GW	GM
51	1	88	94	137.0	78.0	17	79.50	0.95	9.60
52	1	90	96	138.0	77.0	10	78.77	0.58	10.80
53	1	88	94	166.0	90.0	12	62.50	0.30	8.10
54	1	95	99	144.0	79.0	9	68.60	0.30	9.50
55	1	83	93	157.0	85.0	9	76.92	0.41	10.00
56	1	89	94	135.0	70.0	11	74.42	0.48	10.60
57	1	88	95	148.0	78.0	13	74.71	0.65	9.50
58	1	90	95	154.0	90.0	12	76.19	0.64	10.40
59	1	90	95	136.0	72.0	10	75.93	0.41	9.90
60	1	90	95	150.0	74.0	13	75.33	0.93	9.10
61	2	95	99	127.0	57.0	6	65.52	0.10	9.30
62	2	90	96	121.0	55.0	5	71.24	0.27	9.70
63	2	95	99	131.0	61.0	7	71.43	0.33	10.80
64	2	88	95	150.0	81.0	4	83.80	0.45	9.60
65	2	88	95	137.0	63.0	7	72.90	0.39	10.20
66	2	88	95	145.0	67.0	7	75.20	0.47	12.30
67	2	83	92	129.0	63.0	8	80.92	0.53	8.90
68	2	87	93	122.0	48.0	5	62.07	0.09	9.60
69	2	90	96	127.0	64.0	8	73.64	0.41	9.50
70	2	95	99	143.0	86.0	15	74.90	0.91	9.30
71	2	91	97	72.0	33.0	3	76.92	0.25	9.60
72	2	86	92	144.0	78.0	10	75.13	0.71	10.40
73	2	90	96	134.0	72.0	10	76.34	0.36	9.60
74	2	95	99	126.0	61.0	11	67.68	0.34	8.90
75	2	95	99	129.0	67.0	6	61.54	0.07	8.90
76	2	85	93	133.0	74.0	9	80.13	0.63	9.40
77	2	90	96	164.0	79.0	7	71.01	0.25	9.20
78	2	84	89	159.0	87.0	7	78.85	0.65	9.80
79	2	84	90	146.0	71.0	10	72.53	0.33	9.20
80	2	90	95	164.0	80.0	7	58.00	0.15	10.70
81	2	90	95	148.0	75.0	10	74.71	0.33	10.80
82	2	84	89	149.0	78.0	10	78.46	0.51	12.70
83	2	86	93	157.0	82.0	13	76.43	0.54	12.60
84	2	89	95	153.0	87.0	10	74.71	0.33	9.00
85	2	89	95	159.0	72.0	9	76.12	0.51	9.50
86	2	89	95	137.0	69.0	12	78.63	0.46	11.10
87	2	90	96	165.0	90.0	9	74.75	0.37	10.00
88	2	95	99	152.0	83.0	9	81.25	0.59	9.50
89	2	90	96	154.0	79.0	8	68.42	0.20	9.20
90	2	88	94	145.0	70.0	10	81.45	0.51	9.40
91	2	90	96	164.0	76.0	11	99.97	0.55	9.30
92	2	90	96	152.0	87.0	12	77.12	0.46	9.70
93	2	90	96	158.0	89.0	16	74.52	0.81	10.10
94	2	83	93	155.0	74.0	13	79.26	0.54	9.30
95	2	90	96	160.0	85.0	15	77.80	0.76	9.60
96	2	90	96	143.0	55.4	12	83.77	0.65	9.70
97	2	90	96	161.0	81.0	13	75.28	0.60	9.50
98	2	90	95	145.0	75.0	7	76.56	0.25	9.50
99	2	90	96	169.0	96.0	13	79.65	0.69	9.70
100	2	95	99	159.0	71.0	12	77.10	0.51	9.60
101	2	95	99	147.0	65.0	11	82.96	0.56	9.70

IC12

Plot	Rep	DT	DS	PH	EH	NoC	SP	GW	GM
102	2	95	99	149.0	75.0	4	80.00	0.08	8.90
103	2	90	96	175.0	87.0	18	83.83	1.97	13.80
104	2	90	96	202.0	98.0	10	84.06	0.78	10.10
105	2	90	96	189.0	99.0	16	81.33	1.31	11.70
106	2	90	96	158.0	79.0	16	82.95	1.10	10.80
107	2	88	93	164.0	91.0	14	80.31	0.82	9.30
108	2	90	96	161.0	76.0	9	80.83	0.78	9.50
109	2	90	96	169.0	87.0	14	81.13	0.93	13.30
110	2	90	96	168.0	84.0	16	79.67	1.45	11.20
111	2	88	93	181.0	95.0	15	86.77	1.71	14.50
112	2	90	96	182.0	88.0	17	78.23	1.06	11.30
113	2	90	96	186.0	95.0	18	80.56	1.02	10.80
114	2	90	96	188.0	93.0	21	81.27	1.61	13.70
115	2	88	93	198.0	98.0	18	82.48	0.97	9.30
116	2	90	96	189.0	103.0	15	82.66	1.43	9.50
117	2	88	93	184.0	98.0	17	79.92	0.96	10.80
118	2	90	96	187.0	100.0	18	83.50	1.24	10.10
119	2	90	96	157.0	88.0	17	77.96	0.96	12.80
120	2	90	96	173.0	90.0	17	81.17	1.32	13.50

Table 3. AUTC-23

Entry	DS	R	DT	R	EH	R	EA	R	GY	R	HGW	R	NoC	R	PH	R	SP	R
1	80	13	79	15	90	17	3	14	1789	12	0	8	8	10	188	3	70	14
2	81	10	80	8	98	13	1	19	280	19	0	9	3	19	175	12	71	12
3	82	4	80	9	105	8	5	5	1985	10	0	10	13	2	185	6	60	18
4	80	14	79	12	108	5	3	11	1730	13	0	19	3	18	170	14	71	13
5	80	15	79	13	113	4	5	1	2425	7	0	18	16	1	168	17	68	16
6	82	5	81	3	108	6	4	6	3380	2	0	3	10	7	170	15	83	3
7	84	1	81	2	103	10	1	18	353	18	0	17	4	17	188	4	67	17
8	77	19	81	4	95	16	4	7	3002	5	0	5	7	14	180	7	86	1
9	78	18	76	19	83	19	5	2	3143	3	0	11	12	4	175	13	84	2
10	81	11	79	14	88	18	5	3	3771	1	0	6	13	3	150	19	78	6
11	81	7	80	5	98	14	4	8	2505	6	0	7	11	5	180	8	70	15
12	81	8	80	6	98	15	5	4	1823	11	0	1	8	11	170	16	80	5
13	80	16	78	16	115	1	3	15	1087	15	0	4	5	15	178	10	75	9
14	83	3	80	7	115	2	2	16	878	16	0	15	9	8	180	9	54	19
15	81	12	80	10	100	11	3	12	3028	4	0	16	11	6	165	18	75	10
16	82	6	77	18	115	3	2	17	680	17	0	13	5	16	198	1	77	8
17	79	17	78	17	105	9	4	9	2311	8	0	14	7	13	188	5	78	7
18	81	9	80	11	108	7	4	10	2002	9	0	12	9	9	178	11	83	4
19	84	2	82	1	98	12	3	13	1706	14	0	2	8	12	195	2	74	11
General Mean	**80.68**	**.**	**79.26**	**.**	**101.97**	**.**	**3.29**	**.**	**1993.32**	**.**	**0.03**	**.**	**8.24**	**.**	**177.76**	**.**	**73.78**	**.**
p-Value	0.3326	.	0.2701	.	0.8348	.	0.0384	.	<.0001	.	0.4998	.	<.0001	.	0.8989	.	<.0001	.
CV(%)	2.64	.	2.23	.	16.49	.	37.41	.	22.44	.	148.83	.	22.22	.	12.16	.	0	.
SE(d)	2.127	.	1.767	.	16.815	.	1.231	.	447.222	.	0.042	.	1.831	.	21.61	.	0	.
Tukey HSD at 1%	NS	.	NS	.	NS	.	6.0151	.	2185.8	.	NS	.	8.9468	.	NS	.	0	.

Table 4. AUTC-24

Entry	DS	R	DT	R	EH	R	GY	R	NoC	R	PH	R	SL	R	SP	R
1	75	6	73	7	62	6	4050	6	17	2	140	9	6	9	79	6
2	72	20	71	20	56	12	3769	7	13	10	139	11	7	6	78	9
3	74	14	72	16	52	17	2967	12	12	11	127	19	7	7	76	15
4	74	11	73	10	63	4	3699	8	14	8	155	3	6	8	77	14
5	76	2	73	8	63	5	5050	4	15	6	153	4	5	11	78	11
6	74	15	73	11	52	18	734	20	9	19	129	17	9	2	75	20
7	75	9	72	17	52	16	2172	17	10	15	125	20	1	19	76	16
8	74	12	72	18	54	13	3331	10	14	9	130	15	6	10	81	3
9	75	10	73	12	53	14	2776	15	16	4	137	13	5	12	80	5
10	74	16	73	9	50	19	3684	9	15	7	148	5	5	13	82	1
11	76	3	74	1	58	8	2818	14	10	16	130	14	4	15	80	4
12	75	7	73	13	81	1	2611	16	11	13	140	10	9	1	78	12
13	75	8	74	3	53	15	3227	11	16	5	138	12	4	14	78	10
14	76	1	74	2	68	2	2912	13	12	12	144	8	8	3	76	17
15	76	4	74	4	57	11	1801	18	9	18	130	16	8	4	77	13
16	74	17	72	14	47	20	5963	2	17	3	148	6	1	20	82	2
17	73	19	72	19	59	7	5985	1	9	20	166	1	2	17	79	7
18	74	13	72	15	58	9	4906	5	18	1	127	18	8	5	75	19
19	76	5	74	5	66	3	1593	19	10	17	148	7	2	16	75	18
20	74	18	74	6	57	10	5786	3	10	14	157	2	1	18	79	8
General Mean	**74.33**	**.**	**72.58**	**.**	**57.75**	**.**	**3491.38**	**.**	**12.68**	**.**	**140.23**	**.**	**4.95**	**.**	**77.99**	**.**
p-Value	0.018	.	0.0056	.	0.0283	.	0.0139	.	0.0868	.	0.0437	.	0.0458	.	0.1612	.
CV(%)	1.21	.	1.02	.	11.92	.	35.17	.	24.45	.	7.82	.	49.35	.	3.01	.
SE(d)	0.897	.	0.742	.	6.887	.	1228.056	.	3.099	.	10.965	.	2.443	.	2.349	.
Tukey HSD at 1%	4.3691	.	3.618	.	33.557	.	5984	.	NS	.	53.428	.	11.904	.	NS	.

Table 5. AUTC-26

Plot	Rep	DT	DS	PH	EH	PS	NoC	FW	GW	GM	SP
1	1	**88**	**90**	177.00	115.00	15	16	3.57	1.73	13.50	76.74
2	1	81	85	194.00	112.00	13	16	2.62	1.25	9.50	78.55
3	1	80	84	188.00	117.00	21	21	2.42	1.30	10.20	81.25
4	1	81	85	189.00	112.00	15	15	2.65	1.46	9.50	85.13
5	1	83	88	199.00	109.40	20	18	2.07	1.11	9.70	80.43
6	1	80	84	208.00	105.00	20	14	2.78	1.58	12.50	85.60
7	1	80	84	213.00	105.00	12	9	2.61	1.52	12.30	87.07
8	1	91	97	162.00	98.00	11	6	0.76	0.29	9.00	73.08
9	1	83	87	204.00	92.00	17	18	2.55	1.47	9.30	84.68
10	1	86	89	164.00	101.00	9	7	1.41	0.58	10.30	79.31
11	1	85	88	178.00	111.00	11	9	1.49	0.81	9.60	83.08
12	1	91	97	179.00	109.00	9	7	1.01	0.46	11.30	76.03
13	1	79	83	194.00	88.00	8	9	1.77	1.13	9.20	88.24
14	1	88	92	176.00	107.00	5	4	0.81	0.27	9.60	76.81
15	1	89	92	185.00	112.00	9	7	0.93	0.43	9.70	73.28
16	1	89	93	173.00	107.00	15	9	1.11	0.59	12.60	80.69
17	1	86	88	185.00	117.00	10	10	1.58	0.79	11.10	78.50
18	1	79	83	175.00	88.00	16	14	2.22	1.18	11.70	81.20
19	1	86	90	172.00	104.00	9	9	0.97	0.51	9.50	77.10
20	1	90	94	180.00	112.00	16	14	2.18	1.06	12.30	77.86
21	2	95	99	156.00	91.00	13	11	1.24	0.60	9.60	76.43
22	2	87	95	152.00	80.00	11	5	0.53	0.33	9.80	77.65
23	2	79	83	167.00	68.00	18	17	2.03	1.68	11.70	87.50
24	2	87	91	128.00	61.67	3	3	0.32	0.18	9.90	78.26
25	2	86	90	177.00	67.00	14	10	1.23	0.84	11.70	82.76
26	2	96	100	152.00	42.50	3	1	0.11	0.07	9.30	82.35
27	2	85	89	154.00	76.00	9	8	1.04	0.62	9.80	80.39
28	2	87	91	169.00	72.00	8	8	1.14	0.68	10.50	83.85
29	2	95	100	153.00	94.00	7	6	0.75	0.38	10.80	79.17
30	2	87	90	164.00	90.00	9	7	1.07	0.65	11.20	79.75
31	2	91	95	152.00	84.00	9	7	0.61	0.51	9.50	80.95
32	2	90	94	189.00	111.00	15	14	2.23	1.23	9.60	80.92
33	2	87	92	195.00	125.00	13	8	1.37	0.72	11.80	76.88
34	2	87	90	201.00	115.00	17	17	2.08	1.37	10.80	79.82
35	2	90	94	189.00	116.00	18	14	1.57	0.88	9.90	78.48
36	2	88	91	213.00	117.00	16	16	2.72	1.52	9.80	75.81
37	2	85	89	198.00	122.00	13	9	2.11	1.25	10.30	82.24
38	2	86	90	213.00	113.00	20	17	4.07	2.48	13.80	84.18
39	2	86	90	197.00	117.00	15	15	2.75	1.59	11.10	79.25
40	2	86	88	177.00	101.00	17	15	3.38	1.96	9.90	83.76

Table 6. AUTC-35

Entry	DS	R	DT	R	EH	R	GY	R	NoC	R	PH	R	SP	R
1	75	20	74	15	66	23	4916	44	20	2	199	8	77	27
2	75	21	73	27	58	52	5025	41	17	18	174	51	79	17
3	75	14	74	8	66	22	7319	8	16	34	184	35	76	38
4	73	42	73	28	69	13	5199	37	17	12	196	16	75	47
5	77	1	76	1	69	14	5624	30	15	39	204	6	76	31
6	77	2	75	2	69	15	5100	39	17	19	208	3	77	30
7	74	28	73	31	60	42	6820	11	16	25	180	45	75	46
8	72	55	71	53	57	53	5045	40	17	13	185	33	82	4
9	73	50	71	52	58	50	7004	10	20	3	183	36	80	8
10	75	15	74	16	65	25	5256	36	16	26	177	48	73	53
11	75	22	74	17	53	55	3953	53	16	35	175	49	77	24
12	73	51	71	54	61	40	8663	2	20	1	198	11	75	45
13	73	52	73	32	53	54	4952	42	16	36	170	54	74	52
14	73	43	72	42	74	4	6072	25	17	20	205	5	82	1
15	76	3	75	3	59	46	3390	54	13	55	181	41	80	9
16	73	53	71	50	61	41	6651	15	16	27	183	39	77	26
17	74	29	74	18	64	27	6099	22	16	28	193	20	74	50
18	75	23	74	19	66	24	6451	17	18	9	196	15	74	51
19	75	24	74	20	74	5	8481	3	19	4	203	7	81	5
20	75	25	74	21	63	35	4126	51	15	38	191	22	75	48
21	73	44	71	55	60	43	7035	9	19	6	183	37	76	37
22	74	36	73	29	71	8	6235	19	17	21	185	32	76	35
23	76	8	75	4	68	16	5415	35	17	14	188	26	81	7
24	75	16	74	22	62	37	4935	43	14	49	197	14	74	49
25	74	30	73	33	70	10	5601	32	14	47	186	30	77	25
26	74	31	73	30	67	20	6807	12	16	29	188	25	77	23
27	73	45	72	43	71	9	5761	27	18	10	190	23	76	36
28	73	46	71	51	64	28	5147	38	18	11	181	43	70	55
29	74	32	72	44	68	17	6077	24	14	48	195	18	72	54
30	76	9	75	5	64	29	5614	31	15	40	181	44	79	11
31	75	17	74	23	70	11	7347	7	16	30	198	9	76	32
32	76	10	74	9	74	1	7717	5	17	22	220	1	76	39
33	74	37	72	45	64	30	5754	28	15	46	180	46	76	33
34	76	4	75	6	59	47	5984	26	16	31	170	53	76	34
35	73	47	72	46	64	31	8997	1	18	7	187	27	82	2
36	76	5	74	10	68	18	8334	4	17	15	197	12	75	41
37	73	54	72	47	60	44	5427	34	17	23	186	31	77	28
38	74	33	72	35	59	49	4803	47	15	42	180	47	75	42
39	73	48	72	48	59	48	4871	45	16	32	184	34	79	14
40	74	38	72	36	64	32	6220	20	14	50	197	13	78	20
41	74	39	72	37	74	2	6121	21	19	5	196	17	75	43
42	75	26	74	24	63	33	4512	49	13	52	194	19	78	21
43	76	11	74	11	58	51	4072	52	13	53	173	52	79	13
44	74	40	72	49	63	34	6570	16	17	16	189	24	75	44
45	76	12	74	12	60	45	4870	46	14	51	183	38	81	6
46	74	34	72	38	62	36	4319	50	15	43	169	55	79	16
47	74	41	72	39	67	21	6311	18	15	44	181	42	79	12
48	75	27	73	34	67	19	5543	33	17	17	175	50	79	15
49	76	13	74	25	62	38	2992	55	15	45	183	40	76	40
50	76	6	74	13	70	12	4542	48	16	37	187	28	78	22

IC17

Entry	DS	R	DT	R	EH	R	GY	R	NoC	R	PH	R	SP	R
51	74	35	72	40	62	39	6088	23	13	54	187	29	78	19
52	73	49	72	41	73	6	6695	14	16	33	193	21	77	29
53	75	18	74	26	73	7	5731	29	18	8	218	2	82	3
54	75	19	75	7	74	3	6709	13	15	41	198	10	78	18
55	76	7	74	14	65	26	7509	6	16	24	208	4	79	10
General Mean	**74.25**	**.**	**72.84**	**.**	**64.5**	**.**	**5869.28**	**.**	**15.98**	**.**	**188.68**	**.**	**77.05**	**.**
p-Value	0.026	.	0.0372	.	0.1306	.	0.6055	.	0.7153	.	0.0002	.	<.0001	.
CV(%)	1.72	.	1.92	.	10.27	.	32.1	.	17.14	.	5.16	.	2.58	.
SE(d)	1.279	.	1.401	.	6.623	.	1883.744	.	2.74	.	9.736	.	1.985	.
Tukey HSD at 1%	6.1849	.	6.7726	.	NS	.	NS	.	NS	.	47.063	.	9.593	.

Table 7. AUTC-37

Plot	Rep	DT	DS	PH	EH	PS	NoC	FW	GW	GM	SP
1	1	90	95	140.00	66.00	20	10	1.05	0.52	8.90	82.54
2	1	86	93	157.00	77.00	21	17	2.39	1.12	8.50	80.00
3	1	87	88	185.00	86.00	20	18	3.94	2.27	11.10	86.31
4	1	83	88	144.00	69.00	17	15	2.02	1.15	9.90	84.56
5	1	85	87	169.00	74.00	20	17	2.61	1.44	10.30	80.45
6	1	79	84	153.00	68.00	21	18	3.15	1.81	9.60	85.78
7	1	88	89	172.00	79.00	18	16	2.58	1.33	9.50	82.87
8	1	79	88	135.00	62.00	20	14	1.94	1.12	9.20	74.83
9	1	87	88	118.00	50.00	15	11	1.43	0.86	8.20	85.15
10	1	87	89	135.00	65.00	20	14	1.85	0.94	9.30	77.27
11	1	89	94	132.00	65.00	19	15	1.68	0.87	9.60	80.93
12	1	87	90	154.00	66.00	18	17	2.17	1.19	9.80	82.07
13	1	87	93	140.00	69.00	20	17	2.14	1.06	9.10	80.72
14	1	87	87	130.00	61.00	17	15	2.57	1.56	9.70	86.39
15	1	87	90	132.00	68.00	20	20	2.50	1.46	9.60	82.44
16	1	87	88	188.00	85.00	13	17	3.11	1.71	10.30	85.07
17	1	95	99	138.00	73.00	18	16	1.74	0.79	8.60	81.87
18	1	87	90	152.00	78.00	18	18	3.44	1.73	10.10	81.18
19	1	87	90	169.00	73.00	19	21	4.42	2.43	9.60	89.15
20	1	87	88	134.00	65.00	18	16	2.92	1.69	9.70	86.22
21	1	88	93	147.00	68.00	16	14	3.25	1.75	10.00	83.29
22	1	87	92	143.00	63.00	22	19	2.45	1.11	9.50	80.14
23	1	87	89	145.00	73.00	20	18	2.26	1.39	8.40	87.11
24	1	87	88	132.00	62.00	14	21	1.91	1.15	9.60	87.07
25	1	87	90	153.00	72.00	21	16	3.05	1.57	9.10	83.51
26	1	87	90	144.00	72.00	21	16	2.11	1.03	8.80	79.15
27	1	87	90	145.00	71.00	21	17	2.70	1.55	8.70	85.36
28	1	87	85	146.00	67.00	22	20	3.65	2.18	10.20	86.68
29	1	87	88	148.00	62.00	20	17	2.93	1.70	8.40	85.86
30	1	88	93	123.00	52.00	18	15	1.74	0.92	8.70	79.91
31	1	88	93	108.00	48.00	19	14	1.45	0.78	8.80	83.87
32	1	87	92	109.00	42.00	18	18	1.95	1.05	10.60	80.08
33	1	87	88	124.00	65.00	17	16	2.16	1.19	9.70	83.22
34	1	87	88	120.00	53.00	19	17	2.59	1.43	9.50	81.02
35	1	87	88	155.00	72.00	20	19	4.37	2.18	10.50	86.51
36	1	88	88	137.00	60.00	20	18	1.94	1.08	9.70	81.75
37	1	87	93	166.20	74.00	17	13	2.60	1.35	8.80	80.84
38	1	88	85	136.00	65.00	18	14	1.99	1.20	9.60	84.81
39	1	91	89	166.00	70.00	18	16	1.57	0.86	8.20	80.75
40	1	88	95	130.00	57.00	21	16	2.31	1.22	9.50	83.51
41	1	87	91	144.00	65.00	20	16	1.66	0.97	9.00	81.86
42	1	87	91	140.00	54.00	19	18	2.09	1.19	9.20	84.70
43	1	87	91	151.00	71.00	22	22	1.91	1.06	9.70	80.92
44	1	88	92	138.00	62.00	22	19	2.46	1.26	10.30	84.00
45	1	90	95	99.00	41.00	21	15	1.33	0.67	9.70	84.71
46	1	87	91	160.00	60.00	19	17	2.61	1.33	9.20	81.85
47	1	87	86	155.00	68.00	22	21	4.48	2.45	9.50	84.60
48	1	87	85	146.00	71.00	21	13	1.81	1.18	10.60	84.59
49	1	87	85	152.00	74.00	22	18	2.80	1.52	9.50	84.21
50	1	87	90	185.00	85.00	19	14	1.76	1.01	8.50	79.84

IC19

Plot	Rep	DT	DS	PH	EH	PS	NoC	FW	GW	GM	SP
51	1	84	90	154.00	62.00	18	14	1.86	1.00	9.50	81.63
52	1	87	90	169.00	79.00	22	14	1.82	0.95	9.10	79.83
53	1	80	90	138.00	60.00	18	11	1.06	0.64	9.70	82.47
54	1	87	89	148.00	70.00	20	17	2.38	1.20	9.50	78.95
55	1	87	89	151.00	72.00	18	17	2.43	1.32	8.50	82.45
56	2	91	95	143.00	78.00	20	17	2.73	1.26	9.90	83.72
57	2	88	95	142.00	69.00	17	8	1.21	0.72	10.00	82.18
58	2	87	91	133.00	71.00	17	15	2.38	1.32	11.20	84.29
59	2	90	96	153.00	78.00	21	11	1.06	0.47	9.30	73.81
60	2	87	91	150.00	74.00	18	17	2.32	1.26	9.70	82.89
61	2	87	91	163.00	78.00	19	17	2.32	1.12	9.60	78.60
62	2	87	88	164.00	80.00	22	16	2.13	1.52	9.60	83.01
63	2	88	91	174.00	77.00	20	18	3.10	1.62	9.60	83.72
64	2	87	88	155.00	63.00	19	14	3.78	1.04	8.70	83.87
65	2	87	88	171.00	78.00	18	12	2.16	1.09	9.60	81.95
66	2	87	86	187.00	81.00	19	20	4.06	2.47	9.80	85.74
67	2	87	90	175.00	78.00	21	20	3.64	1.96	10.10	83.05
68	2	87	91	150.00	72.00	21	20	3.30	1.69	11.10	82.84
69	2	88	91	136.00	79.00	19	18	2.35	1.14	11.30	77.47
70	2	90	93	167.00	83.00	17	17	2.86	1.50	13.50	82.83
71	2	87	86	142.00	69.00	20	20	3.37	2.00	9.50	84.93
72	2	88	91	173.00	79.00	19	19	1.98	1.06	11.10	83.40
73	2	87	90	160.00	76.00	18	21	2.86	1.54	9.10	82.80
74	2	91	95	150.00	71.00	18	15	1.36	0.64	10.10	76.97
75	2	87	91	166.00	79.00	17	14	1.88	1.04	9.80	83.13
76	2	87	88	140.00	68.00	19	16	1.50	0.82	10.30	81.91
77	2	87	88	173.00	84.00	19	19	4.42	2.56	8.30	87.77
78	2	88	91	130.00	72.00	22	14	1.26	0.60	10.50	76.43
79	2	90	92	154.00	72.00	19	20	3.20	1.76	9.50	84.62
80	2	90	92	144.00	62.00	15	13	1.36	0.61	9.60	77.71
81	2	91	97	136.00	70.00	20	16	1.40	0.71	10.30	81.14
82	2	87	91	149.00	57.00	20	20	3.52	1.92	9.30	83.66
83	2	88	91	186.00	101.00	17	18	4.31	2.09	9.60	85.31
84	2	88	91	173.00	87.00	13	12	2.73	1.37	9.20	80.53
85	2	88	95	152.00	78.00	17	13	2.58	1.33	12.10	81.29
86	2	87	95	171.00	72.00	18	16	1.94	1.09	10.80	83.85
87	2	93	95	152.00	73.00	19	13	1.75	0.96	9.60	85.71
88	2	88	91	154.00	76.00	18	13	2.54	1.30	9.60	80.75
89	2	90	91	153.00	79.00	15	14	2.07	1.10	9.60	83.91
90	2	87	88	148.00	72.00	20	16	2.33	1.31	10.10	84.52
91	2	90	91	148.00	76.00	20	16	3.05	1.58	9.60	82.29
92	2	87	89	147.00	75.00	19	16	2.19	1.24	12.70	84.59
93	2	87	89	140.00	72.00	20	19	2.54	1.41	8.00	84.38
94	2	87	98	117.00	65.00	19	13	1.10	0.53	9.50	84.13
95	2	93	88	142.00	76.00	19	18	3.30	1.49	9.10	82.27
96	2	87	98	148.00	79.00	18	12	1.45	0.73	8.20	81.92
97	2	93	92	144.00	69.00	18	13	2.06	1.26	10.10	85.96
98	2	87	91	143.00	61.00	22	22	3.54	1.87	9.70	86.37
99	2	87	91	169.00	79.00	17	13	2.06	1.05	9.50	83.00
100	2	88	91	141.00	60.00	18	17	2.13	1.10	11.20	85.27
101	2	88	93	161.00	78.00	16	17	2.39	1.11	9.00	80.43

IC20

Plot	Rep	DT	DS	PH	EH	PS	NoC	FW	GW	GM	SP
102	2	88	93	114.00	70.00	16	15	1.18	0.54	9.00	80.00
103	2	88	91	160.00	60.00	19	20	2.12	1.09	9.50	81.34
104	2	87	95	139.00	58.00	17	16	2.21	1.16	8.90	84.36
105	2	93	98	164.00	72.00	18	12	1.11	0.47	10.10	78.81
106	2	87	88	149.00	63.00	19	16	1.81	1.06	9.70	85.14
107	2	95	96	156.00	70.00	17	13	1.14	0.49	8.90	80.33
108	2	87	91	122.00	54.00	15	14	1.78	1.04	10.00	86.67
109	2	87	91	146.00	62.00	20	18	3.91	1.75	9.50	85.54
110	2	87	91	159.00	65.00	20	19	2.34	1.14	10.00	77.47

Table 8. AUTC-210

Entry	DS	R	DT	R	EA	R	EH	R	GY	R	NoC	R	PH	R	SP	R
1	81	14	80	14	2	18	80	3	403	17	3	19	188	1	86	2
2	80	18	78	17	4	8	78	6	1118	7	6	10	180	9	80	5
3	79	20	76	20	5	1	78	7	1771	2	9	3	180	10	78	6
4	80	19	78	18	1	20	55	19	257	20	3	20	153	17	71	10
5	83	6	81	8	5	2	80	4	726	12	6	11	185	5	85	3
6	85	1	83	1	3	14	65	15	383	18	4	17	170	13	74	9
7	83	3	81	5	4	9	93	1	1161	6	6	9	188	2	76	7
8	82	12	81	9	3	15	78	8	473	15	5	14	183	7	68	15
9	84	2	82	3	5	3	80	5	2520	1	11	2	178	11	70	12
10	83	4	82	4	3	12	55	20	1431	4	13	1	150	18	60	19
11	83	5	82	2	3	13	60	16	350	19	4	16	150	19	65	18
12	83	7	80	12	2	19	60	17	408	16	4	18	165	14	70	13
13	83	8	81	6	3	16	68	13	883	10	7	6	160	16	65	17
14	81	16	79	16	5	4	60	18	738	11	5	12	163	15	90	1
15	82	9	81	10	4	10	68	14	659	13	5	13	150	20	74	8
16	82	10	81	7	2	17	78	9	625	14	5	15	188	3	69	14
17	81	17	78	19	5	5	78	10	1551	3	9	4	185	6	68	16
18	82	13	80	15	4	11	75	11	980	8	7	7	188	4	80	4
19	82	11	81	11	5	6	75	12	1354	5	8	5	173	12	70	11
20	81	15	80	13	4	7	85	2	951	9	6	8	183	8	45	20
General Mean	**81.8**	**.**	**80**	**.**	**3.4**	**.**	**72.25**	**.**	**937.12**	**.**	**6**	**.**	**172.75**	**.**	**72.25**	**.**
p-Value	0.7483	.	0.5682	.	0.0157	.	0.2353	.	0.187	.	0.1649	.	0.0014	.	<.0001	.
CV(%)	3.05	.	3	.	33.04	.	17.18	.	70.27	.	50.6	.	5.6	.	0	.
SE(d)	2.492	.	2.399	.	1.123	.	12.413	.	658.52	.	3.036	.	9.665	.	0	.
Tukey HSD at 1%	NS	.	NS	.	5.4736	.	NS	.	NS	.	NS	.	47.097	.	0	.

Table 9. AS2BH-13

Entry	DS	R	DT	R	EA	R	EH	R	GY	R	HGW	R	NoC	R	PH	R	SP	R
1	87	5	86	6	3	4	113	1	3026	2	0.02	10	22	1	203	4	78	8
2	88	1	87	3	2	5	83	10	2594	5	0.02	9	21	2	210	3	77	9
3	87	9	86	7	2	6	107	3	2040	9	0.02	5	11	10	182	8	86	3
4	88	4	86	4	1	10	87	8	2737	4	0.02	6	15	7	185	7	90	1
5	86	10	82	10	4	3	108	2	2329	7	0.02	4	13	9	218	2	80	7
6	87	6	86	8	4	1	87	9	1937	10	0.12	1	13	8	162	10	81	6
7	87	7	85	9	2	7	100	7	2330	6	0.02	8	18	3	175	9	76	10
8	88	2	87	1	2	8	107	4	3365	1	0.03	2	18	4	187	6	83	4
9	88	3	87	2	4	2	103	6	2926	3	0.02	7	15	6	190	5	89	2
10	87	8	86	5	2	9	107	5	2195	8	0.03	3	16	5	220	1	82	5
General Mean	**87.27**	**.**	**85.73**	**.**	**2.65**	**.**	**100.17**	**.**	**2547.88**	**.**	**0.03**	**.**	**16.17**	**.**	**193.17**	**.**	**82.02**	**.**
p-Value	0.0604	.	0.9758	.	0.9022	.	0.0057	.	0.6624	.	0.4482	.	0.1369	.	0.0164	.	<.0001	.
CV(%)	0.95	.	5.62	.	83.89	.	9.18	.	36.37	.	157.9	.	28.31	.	9.57	.	2.04	.
SE(d)	0.68	.	3.934	.	1.815	.	7.511	.	756.702	.	0.041	.	3.736	.	15.101	.	1.367	.
Tukey HSD at 1%	NS	.	NS	.	NS	.	32.936	.	NS	.	NS	.	NS	.	66.213	.	5.9928	.

Table 10. AS2BH-14

Entry	DS	R	DT	R	EH	R	GY	R	NoC	R	PH	R	SL	R	SP	R
1	73	8	72	9	79	2	4042	7	33	4	211	7	7	3	75	7
2	73	9	72	8	70	8	6492	3	37	1	219	1	8	2	78	1
3	75	5	73	3	66	9	5347	4	34	3	197	9	4	9	73	9
4	75	6	73	6	87	1	2544	10	31	5	219	2	5	5	72	10
5	73	10	72	10	74	3	6733	2	36	2	216	4	11	1	78	2
6	75	2	73	4	66	10	4950	5	30	6	189	10	5	6	76	4
7	74	7	73	7	72	5	7373	1	30	7	215	6	5	7	74	8
8	75	4	74	2	73	4	2772	9	29	9	218	3	4	10	75	5
9	76	1	74	1	72	6	4265	6	29	8	198	8	5	4	75	6
10	75	3	73	5	71	7	4016	8	28	10	216	5	4	8	77	3
General Mean	**74.37**	**.**	**72.97**	**.**	**73.23**	**.**	**4853.6**	**.**	**31.73**	**.**	**209.93**	**.**	**5.84**	**.**	**75.33**	**.**
p-Value	0.0887	.	0.0544	.	0.1116	.	<.0001	.	0.1698	.	0.0038	.	0.1072	.	0.0315	.
CV(%)	1.69	.	1.41	.	10.43	.	18.91	.	13.41	.	4.32	.	45.12	.	2.55	.
SE(d)	1.027	.	0.842	.	6.235	.	749.27	.	3.474	.	7.4	.	.	.	1.57	.
Tukey HSD at 1%	NS	.	NS	.	NS	.	3285.4	.	NS	.	32.447	.	.	.	6.8854	.

Table 11. AS2BH 16

Plot	Rep	DT	DS	PH	EH	PS	NoC	FW	GW	GM	SP
1	1	86	87	199.00	106.00	33	32	6.08	4.03	18.70	66.83
2	1	86	87	187.00	105.00	39	36	4.93	3.63	19.60	73.60
3	1	87	91	186.00	78.00	37	30	3.62	2.49	17.70	68.78
4	1	85	87	213.00	94.00	34	34	4.22	3.28	12.90	77.61
5	1	86	93	185.00	80.00	34	35	3.53	2.28	14.50	64.41
6	1	85	87	192.00	102.00	37	34	3.64	2.96	17.50	81.21
7	1	86	87	192.00	95.00	37	28	3.39	2.49	15.90	73.34
8	1	85	87	164.00	83.00	40	30	2.58	2.01	14.60	77.76
9	1	80	85	173.00	94.00	35	21	1.81	1.31	12.90	71.70
10	1	84	87	177.00	87.00	29	24	3.29	2.49	18.60	75.57
11	2	80	84	162.00	85.00	35	22	2.21	1.67	13.50	75.36
12	2	80	85	210.00	98.00	35	34	3.89	3.07	15.60	78.67
13	2	85	87	178.00	91.00	28	28	3.23	2.47	14.70	76.32
14	2	87	91	199.00	104.00	31	29	5.65	3.93	20.50	70.61
15	2	81	85	185.00	88.00	25	28	4.56	3.52	15.70	77.17
16	2	87	88	162.00	77.00	22	16	1.86	1.35	19.00	72.51
17	2	83	87	181.00	105.00	32	32	4.49	3.36	19.00	75.00
18	2	80	84	203.00	101.00	17	16	2.91	2.31	15.30	79.18
19	2	85	87	179.00	94.00	36	34	3.95	2.96	13.60	74.63
20	2	85	88	191.00	93.00	28	29	3.84	2.76	11.20	71.56
21	3	91	97	132.00	69.00	28	25	2.07	1.50	19.80	72.29
22	3	88	89	177.00	91.00	16	17	1.66	1.14	17.80	68.47
23	3	84	87	182.00	98.00	23	21	3.23	2.52	17.50	77.90
24	3	80	84	190.00	95.00	31	30	4.19	3.43	9.70	81.86
25	3	80	84	195.00	100.00	26	16	2.41	1.97	12.80	81.54
26	3	84	87	169.00	84.00	28	25	2.73	2.13	15.00	77.83
27	3	81	85	170.00	77.00	33	32	2.56	2.27	12.50	88.48
28	3	88	95	169.00	92.00	32	19	1.60	1.22	20.10	76.49
29	3	84	87	172.00	86.00	40	31	2.63	2.13	15.50	80.95
30	3	88	95	149.00	79.00	32	29	2.45	1.88	15.50	76.42

Table 12. AS2BH310

Entry	DS	R	DT	R	EH	R	GY	R	NoC	R	PH	R	SP	R
1	72	24	71	23	69	11	4076	20	34	1	195	13	85	1
2	75	8	73	11	64	20	4773	7	33	2	182	22	76	22
3	73	21	71	20	63	22	4599	9	31	8	183	21	76	19
4	74	12	72	16	67	14	2698	25	22	24	191	19	77	17
5	74	13	73	9	69	10	3366	24	26	21	192	18	80	7
6	74	14	73	12	75	2	4540	11	29	14	201	8	70	25
7	72	22	71	21	74	4	4181	18	30	11	199	10	77	16
8	73	18	72	18	68	12	4950	5	30	12	187	20	77	15
9	73	19	71	24	59	24	4241	17	28	16	172	24	79	9
10	75	4	74	4	71	6	4555	10	30	10	208	2	78	13
11	74	15	73	13	70	7	4528	12	33	3	195	12	76	20
12	75	9	73	10	70	8	6467	2	31	7	195	14	76	18
13	72	23	71	25	65	18	4085	19	29	13	172	25	79	12
14	75	5	75	1	68	13	4704	8	33	5	202	6	81	5
15	74	16	73	14	63	23	3952	21	30	9	200	9	78	14
16	76	1	75	2	64	21	4255	16	24	22	195	15	76	21
17	73	20	71	22	58	25	4337	15	29	15	177	23	79	10
18	76	2	74	5	65	19	3800	22	24	23	193	16	74	24
19	72	25	71	19	78	1	4512	13	33	4	209	1	75	23
20	76	3	74	3	74	5	4811	6	28	17	196	11	81	3
21	74	11	72	17	66	16	5039	4	28	18	192	17	81	6
22	74	17	73	15	66	15	7158	1	27	20	202	7	81	4
23	75	10	74	6	65	17	4485	14	28	19	206	4	82	2
24	75	6	74	7	75	3	5875	3	33	6	207	3	79	11
25	75	7	74	8	69	9	3382	23	22	25	204	5	79	8
General Mean	**74.07**	**.**	**72.61**	**.**	**67.8**	**.**	**4534.72**	**.**	**29.07**	**.**	**194.2**	**.**	**77.89**	**.**
p-Value	0.0036	.	0.002	.	0.116	.	0.6831	.	0.5574	.	0.0135	.	0.0008	.
CV(%)	1.99	.	1.88	.	10.29	.	38.92	.	20.75	.	6.5	.	4	.
SE(d)	1.202	.	1.118	.	5.699	.	1441.017	.	4.924	.	10.3	.	2.542	.
Tukey HSD at 1%	5.3498	.	4.9719	.	NS	.	NS	.	NS	.	45.827	.	11.31	.

Table 13. AS2BH 312

Plot	Rep	DT	DS	PH	EH	PS	NoC	FW	GW	GM	SP
1	1	83	87	176.00	80.00	28	24	5.75	4.16	12.10	81.01
2	1	83	87	178.00	79.00	35	25	2.51	1.54	13.60	76.37
3	1	87	91	149.00	69.00	37	24	2.58	1.56	12.00	76.28
4	1	87	94	154.00	71.00	34	22	3.19	2.10	16.30	79.25
5	1	87	94	152.00	81.00	29	17	2.11	1.31	18.00	82.13
6	1	87	94	146.00	74.00	26	19	1.87	1.19	13.10	75.24
7	1	85	88	129.00	52.00	30	14	0.81	0.63	11.50	82.89
8	1	86	89	154.00	76.00	37	30	2.85	1.83	17.80	76.41
9	1	86	88	134.00	63.00	33	31	2.70	1.78	12.10	80.36
10	1	88	95	161.00	77.00	33	28	3.23	2.12	20.10	78.54
11	1	83	90	135.00	66.00	34	35	3.56	2.46	12.50	81.83
12	1	87	90	163.00	79.00	37	33	5.43	3.53	13.70	74.92
13	1	83	88	148.00	70.00	30	25	3.30	2.33	14.80	82.19
14	1	82	86	143.00	67.00	36	32	3.44	2.31	12.50	79.25
15	1	87	88	189.00	86.00	31	32	5.36	3.33	15.70	82.02
16	1	82	86	187.00	87.00	28	39	4.55	3.12	18.10	80.16
17	1	82	86	175.00	83.00	32	36	4.81	3.79	17.00	86.63
18	1	86	90	135.00	62.00	33	32	5.08	3.25	19.50	80.92
19	1	87	91	154.00	60.00	32	32	3.44	2.29	18.30	80.78
20	1	83	88	191.00	73.00	37	38	5.99	4.40	19.10	85.52
21	1	83	87	144.00	65.00	30	28	3.90	2.42	14.50	79.88
22	1	83	87	180.00	80.00	37	36	6.46	4.10	17.20	77.14
23	1	87	88	197.00	128.00	34	33	4.56	2.84	17.10	75.43
24	1	83	88	179.00	91.00	32	29	3.81	2.58	15.50	81.90
25	1	83	88	169.00	86.00	33	38	4.89	3.23	18.30	79.07
26	2	87	91	161.00	81.00	35	31	3.08	2.08	19.80	78.84
27	2	87	88	156.00	67.00	19	18	1.89	1.34	10.50	81.71
28	2	80	84	149.00	74.00	21	23	2.89	2.00	10.10	80.97
29	2	87	88	157.00	74.00	19	25	3.75	2.58	13.50	83.63
30	2	83	87	169.00	79.00	31	29	5.50	3.90	14.80	80.75
31	2	83	87	199.00	96.00	29	32	7.25	5.12	20.50	82.83
32	2	87	94	177.00	87.00	31	31	2.27	1.64	14.50	75.16
33	2	88	92	170.00	90.00	36	31	5.47	3.60	18.70	65.81
34	2	81	85	173.00	82.00	29	39	5.82	4.06	19.60	80.96
35	2	83	88	158.00	71.00	37	31	3.77	2.46	20.10	76.72
36	2	82	87	186.00	81.00	32	30	5.56	3.86	20.50	83.55
37	2	90	96	171.00	84.00	27	25	3.48	2.41	13.50	77.92
38	2	87	88	178.00	84.00	30	29	4.63	2.97	17.50	76.02
39	2	84	87	205.00	103.00	28	30	6.78	4.90	18.60	83.82
40	2	80	85	181.00	94.00	23	27	4.50	3.02	16.50	78.75
41	2	87	88	184.00	98.00	36	33	5.12	3.50	17.70	80.91
42	2	87	85	187.00	88.00	30	31	3.50	2.39	18.00	76.60
43	2	86	91	160.00	81.00	28	37	5.40	3.98	16.30	83.80
44	2	86	87	192.00	92.00	30	32	5.57	4.22	19.00	85.69
45	2	84	87	168.00	70.00	32	35	5.66	4.31	18.50	86.03
46	2	87	91	209.00	104.00	36	38	9.15	6.17	18.30	81.40
47	2	81	85	194.00	103.00	33	36	5.34	4.13	18.30	85.15
48	2	86	90	190.00	90.00	33	34	7.29	5.00	20.10	76.51
49	2	87	88	190.00	92.00	33	46	7.60	4.96	17.80	80.24
50	2	87	91	150.00	71.00	26	27	4.64	2.97	18.50	72.79

IC26

Plot	Rep	DT	DS	PH	EH	PS	NoC	FW	GW	GM	SP
51	3	80	85	151.00	68.00	25	18	2.83	2.21	17.50	80.36
52	3	90	96	186.00	88.00	30	22	3.80	2.74	19.60	76.97
53	3	86	88	159.00	64.00	30	31	4.33	3.48	20.10	80.37
54	3	92	97	201.00	90.00	32	32	6.45	4.89	19.80	79.47
55	3	88	88	194.00	84.00	34	36	5.33	4.01	20.10	78.77
56	3	88	92	204.00	83.00	34	30	3.06	3.57	17.10	83.35
57	3	86	88	207.00	93.00	24	32	5.10	4.08	20.10	84.28
58	3	88	92	172.00	75.00	33	31	4.63	3.13	16.70	73.25
59	3	88	92	158.00	77.00	35	28	3.58	2.59	11.50	76.18
60	3	88	92	173.00	73.00	36	23	3.15	2.47	12.80	81.35
61	3	81	86	208.00	93.00	28	30	6.86	5.41	13.00	82.67
62	3	86	88	206.00	95.00	31	27	3.99	3.20	13.10	83.22
63	3	87	90	179.00	84.00	32	28	2.84	2.16	11.50	77.52
64	3	80	85	203.00	99.00	37	32	3.79	3.16	10.10	86.08
65	3	84	88	153.00	74.00	30	31	3.28	2.51	10.50	79.68
66	3	88	92	170.00	78.00	37	27	1.99	1.38	10.00	73.73
67	3	91	95	172.00	80.00	28	23	2.16	1.50	9.50	74.01
68	3	88	92	172.00	88.00	33	34	5.26	3.69	15.50	77.12
69	3	86	88	152.00	68.00	35	26	3.95	2.89	14.00	79.83
70	3	87	88	162.00	78.00	24	27	2.93	2.17	13.70	77.83
71	3	80	85	171.00	87.00	32	23	2.95	2.21	17.80	79.03
72	3	87	88	151.00	67.00	35	24	1.62	2.02	19.80	80.64
73	3	83	88	139.00	65.00	29	21	1.10	0.92	18.50	83.67
74	3	90	96	177.00	94.00	28	34	3.44	2.50	14.50	76.57
75	3	88	92	173.00	88.00	27	27	1.95	1.49	13.70	81.42

Table 14. CAT1440

Entry	DM	R	DS	R	DT	R	EH	R	GY	R	PH	R
1	116	9	78	10	74	8	74	8	5473	8	168	10
2	115	10	79	7	74	7	76	6	6239	4	172	4
3	117	4	80	5	76	2	83	1	5923	6	170	7
4	116	6	79	6	75	6	82	3	6450	2	176	2
5	117	5	80	4	76	3	72	9	5386	9	168	9
6	119	2	81	1	76	1	79	5	6482	1	171	6
7	116	7	78	8	74	9	69	10	6406	3	170	8
8	119	1	80	2	76	4	81	4	6110	5	171	5
9	116	8	78	9	74	10	74	7	5764	7	174	3
10	118	3	80	3	76	5	82	2	4938	10	193	1
General Mean	**116.93**	**.**	**79.37**	**.**	**74.9**	**.**	**77.24**	**.**	**5917.12**	**.**	**173.29**	**.**
p-Value	0.044	.	0.0138	.	0.0571	.	0.218	.	0.2828	.	0.0729	.
CV(%)	1.35	.	1.16	.	1.4	.	8.78	.	13.16	.	4.9	.
SE(d)	1.291	.	0.752	.	0.855	.	5.534	.	635.648	.	6.929	.
Tukey HSD at 1%	5.6608	.	3.2972	.	NS	.	NS	.	NS	.	NS	.

Table 15. CAT1441

Entry	DM	R	DS	R	DT	R	EH	R	GY	R	PH	R
1	119	7	80	9	75	9	77	3	5876	4	169	5
2	120	5	82	6	78	6	76	5	5249	6	168	6
3	121	2	83	5	78	5	72	9	6226	3	163	8
4	120	4	84	3	79	3	77	4	5808	5	184	1
5	118	8	81	7	77	7	75	6	6228	2	182	2
6	121	3	86	2	81	2	72	8	4845	9	166	7
7	117	10	81	8	77	8	88	1	6488	1	178	4
8	117	9	83	4	79	4	66	10	5215	7	163	9
9	124	1	88	1	83	1	73	7	4845	8	158	10
10	120	6	79	10	73	10	79	2	3805	10	178	3
General Mean	**119.73**	**.**	**82.67**	**.**	**78.1**	**.**	**75.61**	**.**	**5458.48**	**.**	**170.84**	**.**
p-Value	0.0025	.	<.0001	.	<.0001	.	0.0043	.	0.0409	.	0.0005	.
CV(%)	1.43	.	1.49	.	1.65	.	6.57	.	16.26	.	3.65	.
SE(d)	1.399	.	1.005	.	1.055	.	4.057	.	724.842	.	5.096	.
Tukey HSD at 1%	6.1357	.	4.4064	.	4.6271	.	17.791	.	3178.3	.	22.344	.

Table 16. CAT1442

Entry	DM	R	DS	R	DT	R	EH	R	GY	R	PH	R
1	123	1	87	2	82	2	63	8	5220	2	155	8
2	118	8	82	8	77	8	72	3	4229	8	159	4
3	122	5	84	6	79	6	68	6	4521	5	162	3
4	123	2	87	1	83	1	71	4	5281	1	163	2
5	122	3	85	3	80	3	80	1	4659	4	175	1
6	122	4	85	5	80	5	65	7	3929	9	157	5
7	117	9	80	10	75	10	62	9	5018	3	156	6
8	115	10	81	9	77	9	79	2	4297	7	155	7
9	120	7	82	7	78	7	70	5	3466	10	141	10
10	122	6	85	4	80	4	60	10	4399	6	155	9
General Mean	**120.33**	**.**	**83.7**	**.**	**79**	**.**	**68.84**	**.**	**4501.76**	**.**	**157.89**	**.**
p-Value	<.0001	.	0.0003	.	<.0001	.	0.0001	.	0.0189	.	0.001	.
CV(%)	1.16	.	1.88	.	1.75	.	6.13	.	12.44	.	4.02	.
SE(d)	1.141	.	1.284	.	1.13	.	3.443	.	457.237	.	5.186	.
Tukey HSD at 1%	5.0018	.	5.6313	.	4.9542	.	15.098	.	2004.9	.	22.741	.

Table 17. CAT1443

Entry	DM	R	DS	R	DT	R	EH	R	GY	R	PH	R
1	126	1	88	3	83	3	62	14	3942	10	149	15
2	126	3	86	6	82	6	67	10	3351	15	163	6
3	126	2	88	1	83	1	68	8	4435	5	154	13
4	123	11	85	12	81	10	56	15	4089	8	152	14
5	122	14	85	13	80	13	70	5	3926	12	172	2
6	125	7	86	7	82	7	65	12	3936	11	160	8
7	124	10	86	10	81	11	62	13	5199	2	160	9
8	125	4	88	2	83	2	71	4	3792	14	169	4
9	125	5	87	5	82	5	72	3	4076	9	159	10
10	124	8	86	8	81	9	66	11	4617	4	156	12
11	122	12	85	14	80	14	72	1	5490	1	169	5
12	122	13	86	9	81	8	72	2	4432	6	175	1
13	122	15	82	15	78	15	68	9	5076	3	158	11
14	125	6	87	4	82	4	68	7	4363	7	170	3
15	124	9	86	11	81	12	69	6	3853	13	160	7
General Mean	**124.16**	**.**	**86.09**	**.**	**81.24**	**.**	**67.15**	**.**	**4305.04**	**.**	**161.85**	**.**
p-Value	0.0181	.	<.0001	.	0.0002	.	0.0058	.	0.027	.	0.0008	.
CV(%)	1.29	.	1.27	.	1.34	.	6.69	.	15.43	.	4.05	.
SE(d)	1.313	.	0.89	.	0.892	.	3.666	.	542.471	.	5.354	.
Tukey HSD at 1%	5.7496	.	3.8999	.	3.9077	.	16.06	.	2376.3	.	23.453	.

Table 18. CAT1444

Entry	DM	R	DS	R	DT	R	EH	R	GY	R	PH	R
1	122	48	86	42	81	38	61	31	4496	13	155	37
2	126	9	90	10	84	9	68	3	4274	19	162	11
3	124	25	88	17	83	19	63	25	3800	40	160	15
4	126	10	87	24	81	39	67	6	4178	24	158	22
5	126	15	89	12	84	13	65	11	3729	46	164	4
6	126	11	86	33	81	40	70	1	3983	29	153	49
7	126	12	89	13	84	10	63	24	4474	14	153	50
8	124	26	88	23	83	23	65	12	4430	15	151	55
9	123	42	86	34	81	41	69	2	4595	11	156	31
10	123	43	86	43	81	42	61	34	3920	35	154	42
11	124	35	85	44	81	43	62	29	3644	50	153	51
12	127	7	90	6	85	6	60	42	4342	17	154	45
13	126	13	89	14	84	11	61	36	4218	21	157	29
14	126	16	89	15	84	15	59	46	3570	53	156	32
15	123	44	86	35	81	44	58	51	3946	31	155	40
16	124	36	87	25	82	24	65	13	3812	39	171	1
17	122	49	85	47	80	48	56	54	4033	28	152	54
18	125	23	87	26	82	25	60	43	3625	52	154	46
19	121	53	84	50	79	53	63	20	5075	4	163	6
20	124	37	84	51	79	50	60	37	5217	3	155	39
21	123	39	87	27	82	26	60	40	3791	42	162	9
22	127	5	90	7	85	8	63	21	4189	22	160	18
23	123	45	86	36	81	32	68	4	5741	1	157	28
24	125	20	89	11	83	16	67	5	4142	25	158	20
25	125	21	88	18	84	14	62	30	4851	9	158	21
26	124	27	87	28	82	31	60	44	3727	47	160	16
27	122	52	82	55	77	55	64	18	4893	7	166	2
28	124	28	87	29	82	27	65	14	3935	34	161	12
29	124	29	88	19	83	20	64	19	3818	38	156	33
30	124	30	86	37	81	33	61	33	4330	18	157	27
31	124	38	86	38	81	34	54	55	3831	37	154	41
32	124	31	88	20	83	21	66	9	3784	43	165	3
33	128	4	91	4	85	5	66	8	3940	32	161	13
34	129	2	91	2	86	2	60	38	5015	5	161	14
35	122	50	85	45	80	45	58	53	4677	10	154	43
36	126	17	90	8	84	12	61	32	3796	41	156	30
37	127	6	86	39	81	35	64	17	3739	45	156	34
38	127	8	91	5	86	4	63	22	5535	2	158	23
39	125	22	89	16	83	17	59	47	3782	44	157	25
40	123	46	85	48	80	49	65	15	3949	30	155	36
41	123	40	87	30	82	28	58	52	3557	54	153	52
42	123	47	85	46	80	46	59	48	5000	6	154	44
43	122	51	84	52	79	51	62	26	4126	26	152	53
44	124	32	88	21	83	18	67	7	4559	12	163	7
45	126	14	86	40	81	36	65	10	4179	23	163	5
46	121	54	86	41	81	37	64	16	3938	33	158	19
47	123	41	87	31	82	29	62	28	3630	51	158	24
48	126	18	90	9	85	7	58	50	3425	55	154	47
49	124	33	88	22	83	22	60	41	3872	36	154	48
50	125	24	87	32	82	30	60	39	4359	16	160	17

IC30

Entry	DM	R	DS	R	DT	R	EH	R	GY	R	PH	R
51	124	34	85	49	80	47	61	35	4264	20	155	38
52	120	55	83	54	78	54	58	49	3678	48	156	35
53	126	19	84	53	79	52	59	45	3663	49	157	26
54	129	1	92	1	87	1	62	27	4077	27	163	8
55	129	3	91	3	86	3	63	23	4877	8	162	10
General Mean	**124.32**	**.**	**87.07**	**.**	**82**	**.**	**62.2**	**.**	**4182.32**	**.**	**157.54**	**.**
p-Value	<.0001	.	<.0001	.	<.0001	.	0.0036	.	0.0245	.	0.0024	.
CV(%)	0.96	.	1.48	.	1.4	.	5.18	.	13.55	.	2.5	.
SE(d)	1.192	.	1.29	.	1.145	.	3.219	.	566.536	.	3.946	.
Tukey HSD at 1%	5.7607	.	6.2362	.	5.5358	.	15.56	.	2738.6	.	19.075	.

Table 19. CAT1445

Entry	DM	R	DS	R	DT	R	EH	R	GY	R	PH	R
1	118	28	82	16	77	16	41	60	3875	59	156	56
2	116	38	81	18	77	17	82	48	4279	54	191	7
3	116	39	79	42	75	34	96	7	5029	28	186	10
4	120	13	83	5	79	4	88	29	8062	2	475	3
5	119	23	81	19	76	20	93	12	4349	50	174	27
6	118	25	80	31	76	21	90	21	5085	26	172	30
7	118	29	76	58	72	55	103	1	5123	20	185	12
8	120	14	84	3	79	5	84	43	4548	47	175	25
9	115	48	79	38	75	35	94	10	4688	38	185	11
10	115	49	78	45	74	43	78	53	4635	41	175	24
11	117	36	78	46	74	44	92	16	4315	53	178	18
12	116	43	79	43	75	36	101	2	5250	13	188	9
13	116	40	80	32	75	37	99	4	5126	19	174	26
14	122	6	83	6	79	8	97	6	3952	57	172	31
15	118	30	81	20	77	18	95	8	4966	31	163	46
16	113	56	77	55	72	57	78	54	6723	3	158	55
17	115	45	78	51	74	45	83	46	5158	17	166	41
18	114	54	78	52	74	46	92	15	4907	34	177	20
19	122	7	83	9	79	9	88	33	4585	44	170	34
20	116	41	80	33	75	31	94	9	5121	21	162	48
21	115	46	77	56	73	50	83	47	4597	43	165	43
22	113	59	78	53	73	54	92	18	28417	1	192	6
23	117	32	81	23	76	22	86	42	5092	25	174	28
24	112	60	75	59	71	59	98	5	5096	24	192	5
25	114	55	75	60	71	60	87	38	5304	11	172	29
26	121	11	80	26	77	19	90	23	4205	56	185	13
27	115	50	79	39	74	47	92	17	5116	22	201	4
28	114	52	79	44	74	39	92	14	5675	5	180	15
29	113	57	77	54	71	58	88	30	4327	51	176	22
30	113	58	78	47	74	48	87	39	4474	49	159	53
31	125	2	83	7	79	6	86	41	4577	45	169	37
32	117	33	80	27	76	23	46	59	5861	4	163	44
33	120	16	78	48	73	51	91	19	5200	15	179	17
34	119	24	82	17	78	11	88	32	4317	52	160	51
35	117	37	80	34	75	32	87	35	4825	35	166	42
36	123	4	79	40	73	52	89	27	3804	60	176	23
37	119	19	79	41	76	28	93	13	5271	12	955	1
38	120	15	80	35	76	29	77	55	4638	40	167	40
39	120	17	80	28	74	40	89	24	3935	58	677	2
40	122	8	85	2	81	3	78	52	4626	42	156	57
41	118	31	81	24	76	24	89	26	4566	46	180	16
42	119	20	77	57	72	56	89	28	5428	9	171	33
43	117	34	80	29	76	30	91	20	4273	55	170	36
44	119	21	80	36	73	49	93	11	4524	48	191	8
45	116	42	80	30	76	25	89	25	5099	23	177	19
46	117	35	82	12	76	26	84	44	4972	29	161	49
47	118	26	82	13	78	12	90	22	4970	30	163	45
48	121	12	83	10	78	13	99	3	4769	36	170	35
49	126	1	84	4	82	1	87	40	5462	7	160	52
50	124	3	82	14	78	14	87	37	5129	18	177	21

IC32

Entry	DM	R	DS	R	DT	R	EH	R	GY	R	PH	R
51	123	5	82	15	77	15	88	31	5162	16	172	32
52	120	18	81	25	75	38	87	34	5636	6	158	54
53	115	47	78	49	74	41	75	57	4914	33	161	50
54	114	53	78	50	73	53	84	45	4647	39	167	39
55	122	10	86	1	81	2	81	49	4743	37	163	47
56	116	44	81	21	75	33	80	50	5454	8	169	38
57	119	22	83	8	79	7	57	58	5319	10	139	60
58	118	27	81	22	76	27	76	56	5082	27	146	59
59	115	51	80	37	74	42	79	51	4938	32	154	58
60	122	9	83	11	79	10	87	36	5250	14	183	14
General Mean	**117.65**	**.**	**79.95**	**.**	**75.39**	**.**	**86.2**	**.**	**5324.5**	**.**	**197.94**	**.**
p-Value	<.0001	.	<.0001	.	<.0001	.	0.0257	.	0.3877	.	0.4055	.
CV(%)	1.44	.	1.93	.	1.82	.	13.81	.	79.38	.	86.84	.
SE(d)	1.689	.	1.54	.	1.368	.	11.902	.	4226.653	.	171.892	.
Tukey HSD at 1%	8.1829	.	7.4624	.	6.6303	.	57.667	.	NS	.	NS	.

Annexures

Annexure I

Maize area, production and yield statistics in Indian states from 2012-13 to 2014-15

State/ UT	Season	Area ('000 ha)			Production ('000 tonnes)			Yield (kg/ha)		
		2012-13	2013-14	2014-15	2012-13	2013-14	2014-15	2012-13	2013-14	2014-15
Andhra Pradesh	Kharif	565.0	565.0	622.0	2342.0	1970.2	1738.0	4145	3487	2794
	Rabi	407.0	441.0	373.0	2513.0	2892.0	2498.0	6174	6558	6697
	Total	972.0	1006.0	995.0	4855.0	4862.2	4236.0	4995	4833	4257
Arunachal Pradesh	Kharif	39.0	39.0	*	55.5	55.5	*	1423	1423	-
	Rabi	8.5	8.0	*	12.7	13.5	*	1496	1681	-
	Total	47.5	47.0	*	68.2	69.0	*	1436	1467	-
Assam	Kharif	23.7	24.1	23.0	21.3	21.6	38.0	897	898	1652
Bihar	Autumn	261.0	276.6	250.2	646.2	581.6	619.5	2476	2103	2476
	Rabi	424.6	455.8	464.0	1829.6	1530.4	1558.1	4309	3358	3358
	Total	685.6	732.3	714.2	2475.9	2112.1	2177.6	3611	2884	3049
Chattisgarh	Kharif	107.2	111.1	122.1	207.5	229.1	230.3	1936	2062	1886
Gujarat	Kharif	373.0	333.0	318.0	625.0	422.0	463.0	1676	1267	1456
	Rabi	85.0	128.0	105.0	166.0	259.0	209.0	1953	2023	1990
	Total	458.0	461.0	423.0	791.0	681.0	672.0	1727	1477	1589
Haryana	Kharif	9.0	9.0	8.0	23.0	27.0	18.0	2556	3000	2250
Himachal Pradesh	Kharif	294.3	292.7	300.0	657.2	652.1	752.7	2233	2228	2509
Jammu & Kashmir	Kharif	310.9	298.7	308.6	512.3	530.5	461.3	1648	1776	1495
Jharkhand	Autumn	243.4	250.8	263.6	435.8	506.0	466.1	1790	2017	1768
	Rabi	5.9	6.1	6.2	15.9	11.0	9.5	2689	1807	1532
	Total	249.3	256.9	269.8	451.7	517.0	475.7	1812	2012	1763
Karnataka	Kharif	1162.0	1246.0	1210.0	2978.0	3578.5	3484.8	2563	2872	2880
	Rabi	160.0	131.0	130.0	497.0	406.0	430.0	3106	3099	3308
	Total	1322.0	1377.0	1340.0	3475.0	3984.5	3914.8	2629	2894	2921
Kerala	Kharif	0.2	0.1	0.1	0.0	0.1	0.1	61	2000	1000
Madhya Pradesh	Kharif	845.4	868.0	1132.0	1513.6	1534.0	2026.3	1790	1767	1790
Maharashtra	Kharif	689.0	747.0	797.0	1582.0	2133.4	1597.0	2296	2856	2004
	Rabi	133.0	254.0	262.0	242.0	596.0	606.0	1820	2346	2313
	Total	822.0	1001.0	1059.0	1824.0	2729.4	2203.0	2219	2727	2080
Manipur	Total	19.4	26.1	*	44.7	58.6	*	2301	2246	-
Meghalaya	Kharif	17.3	18.0	*	26.9	39.7	*	1554	2200	-
Mizoram	Kharif	5.9	5.6	*	7.7	8.0	*	1305	1424	-
	Rabi	0.2	0.2	*	0.3	0.2	*	1611	1294	-

State/ UT	Season	Area ('000 ha)			Production ('000 tonnes)			Yield (kg/ha)		
		2012-13	2013-14	2014-15	2012-13	2013-14	2014-15	2012-13	2013-14	2014-15
	Total	6.1	5.8	*	8.0	8.2	*	1314	1420	-
Nagaland	Kharif	68.7	63.6	*	134.7	125.2	*	1961	1969	-
	Rabi	0.0	5.2	*	*	10.3	*	*	1973	-
	Total	68.7	68.8	89.4	134.7	135.4	182.3	1961	1969	2039
Odisha	Kharif	90.9	91.5	2.3	217.5	253.2	6.3	2393	2766	2739
	Rabi	3.6	3.6	*	10.0	10.4	*	2793	2905	-
	Total	94.5	95.1	91.7	227.5	263.6	188.5	2408	2771	2056
Punjab	Kharif	129.0	130.0	126.0	475.0	507.0	460.0	3682	3900	3651
Rajasthan	Kharif	978.4	916.4	891.5	1725.2	1463.8	1551.2	1763	1597	1740
	Rabi	7.8	10.3	12.8	29.9	38.4	50.0	3844	3729	3906
	Total	986.2	926.7	904.3	1755.1	1502.2	1601.3	1780	1621	1771
Sikkim	Kharif	40.0	39.9	*	68.0	68.8	*	1700	1724	-
Tamil Nadu	Kharif	171.3	188.0	116.4	609.0	1068.2	598.2	3554	5682	5139
	Rabi	119.6	157.3	225.8	337.2	786.9	1235.7	2819	5002	5473
	Total	291.0	345.3	342.2	946.2	1855.1	1833.9	3252	5372	5359
Tripura	Total	3.6	4.6	*	4.7	5.9	*	1295	1277	-
Uttar Pradesh	Kharif	698.0	696.0	643.0	1154.5	1151.2	1143.0	1654	1654	1778
	Rabi	38.0	71.0	69.0	80.0	155.0	132.0	2105	2183	1913
	Total	736.0	767.0	712.0	1234.5	1306.2	1275.0	1677	1703	1791
Uttarakhand	Total	28.0	25.0	25.0	40.2	35.5	53.0	1437	1419	2120
West Bengal	Kharif	40.6	43.7	45.4	96.8	117.4	122.1	2384	2687	2689
	Rabi	65.0	85.0	105.0	320.0	405.0	530.0	4923	4765	5048
	Total	105.6	128.7	150.4	416.8	522.4	652.1	3947	4059	4336
A & N Islands	Kharif	0.1	0.1	*	0.2	0.3	*	2000	2254	-
D & N Haveli	Kharif	0.1	0.1	*	0.1	0.1	*	1000	1000	-
Others	Kharif	-	-	200.4	-	-	382.0	-	-	1906
	Rabi	-	-	11.1	-	-	21.5	-	-	1937
	Total	-	-	211.5	-	-	403.5	-	-	1908
All India	Kharif	7214	7310	7492	16204	17145	16387	2246	2346	2187
	Rabi	1458	1757	1766	6054	7115	7286	4152	4050	4125
	Total	8673	9066	9233	22258	24259	23673	2566	2676	2564

***Included in other states**

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