

Annual Progress Report

Kharif Maize

2014



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-2014



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**Decoded list of entries
tested in Kharif 2014
coordinated trials**

Breeding**Trial. 61 (Late)**

Trial No. : Late Maturity (IVT) (61)
 Year (Season): 2014-Kharif
 Replication : 3
 Row No. : 2
 Row Length: 4 mts.
 Locations: 23

Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Arabhavi, Mandya, Karimnagar, Hyderabad, Coimbatore, Vagarai, Kolhapur, Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua

E. No.	Name	Institute/Organization	Zone	DMR Code	R1	R2	R3
1	GPS -03	GPS BIOTECH	All	DMR51	1708	1734	1919
2	DMRH1416	IIMR-New Delhi	All	DMR52	1627	1809	1873
3	HT 51412607	Hytech Seeds	All	DMR53	1600	1714	1909
4	GPS -02	GPS BIOTECH	All	DMR54	1612	1828	1834
5	SYN417750	SYNGENTA	All	DMR55	1661	1736	1897
6	DMRH1415	IIMR-New Delhi	All	DMR56	1682	1735	1889
7	GH-110204	ARS Arabhavi	All	DMR57	1668	1818	1925
8	KH-1408	KANCHAN	All	DMR58	1603	1827	1831
9	NMH-1247	NUZIVEEDU SEEDS	All	DMR59	1700	1815	1933
10	HKH422	HAU-Hissar	All	DMR60	1654	1766	1836
11	VEH 14-1	B.H.U.	All	DMR61	1710	1824	1852
12	PM 14102L	PHI SEEDS	All	DMR62	1683	1726	1862
13	Gin 01	Bangalore	All	DMR63	1679	1761	1850
14	JH 13023	PAU-Ludhiana	All	DMR64	1609	1757	1931
15	115-08-01	KANCHAN	All	DMR65	1652	1810	1881
16	KF-110	Bhartiya Beej Nigam Ltd.	All	DMR66	1640	1823	1901
17	PM 14106L	PHI SEEDS	All	DMR67	1686	1769	1892
18	PM 14105L	PHI SEEDS	All	DMR68	1597	1732	1940
19	Bio-069	Bio seeds	All	DMR69	1607	1789	1838
20	PMSY -3	Sher-e-Kashmir	All	DMR70	1664	1783	1908
21	NT 8441	SYNGENTA	All	DMR71	1614	1794	1950
22	Proline-2404	proline seed	All	DMR72	1602	1781	1914
23	siri -4555	siri seeds	All	DMR73	1637	1802	1899
24	JKMH 4242	JK SEEDS	All	DMR74	1620	1784	1851
25	GOLD 1166	GREEN GOLD SEEDS	All	DMR75	1709	1773	1843
26	VNR 4325	VNR Seeds pvt.Ltd.	All	DMR76	1704	1787	1905
27	CMH12-671	TNAU-Coimbatore	All	DMR77	1594	1808	1875
28	HT 51412616	Hytech Seeds	All	DMR78	1641	1744	1883
29	CMH10-555	TNAU-Coimbatore	All	DMR79	1628	1759	1924
30	CMH12-663	TNAU-Coimbatore	All	DMR80	1678	1758	1921
31	DKC9125	Monsanto India Limed	All	DMR81	1619	1739	1907
32	KMH-3981	Kaveri seeds	All	DMR82	1592	1775	1891
33	DMH-192	Metahelix	All	DMR83	1622	1826	1947
34	DMRH1413	IIMR-New Delhi	All	DMR84	1665	1813	1927

E. No.	Name	Institute/Organization	Zone	DMR Code	R1	R2	R3
35	K-25 Gold	KANCHAN	All	DMR85	1648	1782	1856
36	IN 8569	Monsanto India Limed	All	DMR86	1639	1724	1939
37	GK-3118	GANGA KAVERI SEEDS	All	DMR87	1596	1731	1918
38	DMRH1409	IIMR-New Delhi	All	DMR88	1693	1718	1922
39	VNR 31862	VNR Seeds pvt.Ltd.	All	DMR89	1613	1717	1900
40	MAH-957	Mandya	All	DMR90	1647	1728	1949
41	DMH-7721	Metahelix	All	DMR91	1591	1829	1833
42	NT 8711	SYNGENTA	All	DMR92	1630	1805	1835
43	JH 13249	PAU-Ludhiana	All	DMR93	1685	1767	1902
44	SAMH-225	Super Agro seedsp pvt.ltd.	All	DMR94	1689	1774	1935
45	JH 13041	PAU-Ludhiana	All	DMR95	1655	1715	1874
46	JH 12063	PAU-Ludhiana	All	DMR96	1629	1772	1853
47	JH 13094	PAU-Ludhiana	All	DMR97	1687	1747	1880
48	RMH-726	Rasi seeds pvt. Ltd.	All	DMR98	1698	1730	1846
49	JH 13044	PAU-Ludhiana	All	DMR99	1707	1737	1837
50	PMSW 4	Sher-e-Kashmir	All	DMR100	1705	1745	1938
51	PM 14104L	PHI SEEDS	All	DMR101	1618	1768	1859
52	CP.555	CP SEEDS LIMILED	All	DMR102	1697	1763	1895
53	JH 13183	PAU-Ludhiana	All	DMR103	1706	1814	1858
54	DMRH1411	IIMR-New Delhi	All	DMR104	1610	1797	1923
55	JH 12150	PAU-Ludhiana	All	DMR105	1701	1816	1948
56	Gin 02	Bangalore	All	DMR106	1624	1778	1849
57	BH 412140	ANGARAU-Hyderabad	All	DMR107	1699	1750	1898
58	NT 6325	SYNGENTA	All	DMR108	1703	1752	1879
59	DMRH1308	IIMR-New Delhi	All	DMR109	1691	1788	1930
60	ADV 1190384	Advanta limited.	All	DMR110	1676	1776	1946
61	HT 51412373	Hytech Seeds	All	DMR111	1658	1798	1936
62	SAFAL X-2	SAFAL SEEDS COMPANY	All	DMR112	1633	1741	1920
63	JH 13197	PAU-Ludhiana	All	DMR113	1617	1711	1894
64	super 6768	SUPER SEEDS	All	DMR114	1635	1800	1876
65	JH 13278	PAU-Ludhiana	All	DMR115	1642	1742	1878
66	IN 8570	Monsanto India Limed	All	DMR116	1657	1822	1888
67	GPMH-1111	ARS Arabhavi	All	DMR117	1663	1821	1868
68	JH 13248	PAU-Ludhiana	All	DMR118	1644	1817	1926
69	SAMH-378	Super Agro seedsp pvt.ltd.	All	DMR119	1598	1749	1861
70	KH-2192	KANCHAN	All	DMR120	1604	1771	1943
71	ADV 0990293	Advanta limited.	All	DMR121	1653	1830	1910
72	JH 13252	PAU-Ludhiana	All	DMR122	1669	1751	1865
73	NMH 1605	Nath Bio- Genes (I) Ltd.	All	DMR123	1662	1777	1917
74	GPMH-1101	ARS Arabhavi	All	DMR124	1595	1729	1916
75	PM 14101L	PHI SEEDS	All	DMR125	1672	1795	1896
76	CMH12-667	TNAU-Coimbatore	All	DMR126	1696	1799	1867
77	BH 412141	ANGARAU-Hyderabad	All	DMR127	1667	1807	1906
78	Srikar 3033	ANGARAU-Hyderabad	All	DMR128	1675	1811	1863

E. No.	Name	Institute/Organization	Zone	DMR Code	R1	R2	R3
79	JH 13282	PAU-Ludhiana	All	DMR129	1625	1746	1866
80	IN 8903	Monsanto India Limed	All	DMR130	1666	1753	1942
81	GYH-0652	Godhara	All	DMR131	1631	1722	1832
82	NMH 1008	Nath Bio- Genes (I) Ltd.	All	DMR132	1646	1760	1877
83	GK-3124	GANGA KAVERI SEEDS	All	DMR133	1677	1804	1857
84	ADV 0990296	Advanta limited.	All	DMR134	1688	1740	1872
85	CMH11-618	TNAU-Coimbatore	All	DMR135	1671	1725	1937
86	REH2013-5	kanpur	All	DMR136	1645	1825	1884
87	DAS-MH-106	Dow Agro Science	All	DMR137	1634	1721	1841
88	JH 13244	PAU-Ludhiana	All	DMR138	1615	1719	1903
89	AMH-3436	Ajeet seeds ltd.	All	DMR139	1616	1796	1929
90	IN 8603	Monsanto India Limed	All	DMR140	1605	1756	1869
91	JH 13230	PAU-Ludhiana	All	DMR141	1702	1765	1839
92	DAS-MH-107	Dow Agro Science	All	DMR142	1659	1820	1911
93	IAHM 2013-12	Ambikapur	All	DMR143	1608	1754	1842
94	JH 12010	PAU-Ludhiana	All	DMR144	1601	1791	1885
95	BH 412131	ANGARAU-Hyderabad	All	DMR145	1611	1792	1882
96	Super 1177	SUPER SEEDS	All	DMR146	1632	1748	1847
97	Super 777	SUPER SEEDS	All	DMR147	1681	1764	1912
98	GH-110145	ARS Arabhavi	All	DMR148	1650	1762	1932
99	JH 13045	PAU-Ludhiana	All	DMR149	1651	1790	1887
100	JH 13037	PAU-Ludhiana	All	DMR150	1621	1743	1934
101	MAH-974	Mandya	All	DMR151	1636	1770	1890
102	BH 412096	ANGARAU-Hyderabad	All	DMR152	1643	1716	1913
103	PRMH-189	Pravardhan Seeds pvt.ltd.	All	DMR153	1649	1819	1886
104	IN 8902	Monsanto India Limed	All	DMR154	1690	1713	1928
105	IN 8602	Monsanto India Limed	All	DMR155	1606	1812	1904
106	REH2013-6	kanpur	All	DMR156	1692	1793	1945
107	JH 13270	PAU-Ludhiana	All	DMR157	1680	1801	1941
108	BH 412095	ANGARAU-Hyderabad	All	DMR158	1674	1785	1860
109	HKH423	HAU-Hissar	All	DMR159	1694	1779	1855
110	Sonam -27	SONAM SEED	All	DMR160	1670	1803	1848
111	REH2013-2	kanpur	All	DMR161	1656	1780	1854
112	JKMH 4023	JK SEEDS	All	DMR162	1599	1806	1915
113	AH 7005	IARI DELHI	All	DMR163	1593	1723	1864
114	CSM-1	IARI DELHI	All	DMR164	1623	1727	1893
115	CSM-2	IARI DELHI	All	DMR165	1695	1755	1840
116	PMH 1-C	PAU-Ludhiana	All	DMR166	1626	1712	1944
117	PMH 3-C	PAU-Ludhiana	All	DMR167	1684	1733	1845
118	Bio -9681-C	Bio seeds	All	DMR168	1638	1786	1844
119	Seedtech 2324	BISCO	All	DMR169	1673	1720	1870
120	HM11-C	HAU-Hissar	All	DMR170	1660	1738	1871

Trial. 62 (Medium)

Trial No. : Medium Maturity (IVT) (62)
 Year (Season): 2014-Kharif
 Replication : 3
 Row No. : 2
 Row Length: 4 mts.
 Locations: 29

Almora, Bajaura, Barapani, Kangra, Udhampur, Gossaigoan (Jorhat), Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Arabhavi, Mandya, Karimnagar, Hyderabad, Coimbatore, Vagarai, Kolhapur, Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua

E. No.	Name	Institute/Organization	Zone	DMR Code	R1	R2	R3
1	IASH 11C022	Indo American	All	DMR201	1047	1218	1311
2	CP.201	CP SEEDS LIMILED	All	DMR202	1068	1131	1335
3	Srikar 4689	Hyderabad	All	DMR203	1014	1203	1275
4	DMRM1402	IIMR-New Delhi	All	DMR204	1013	1145	1333
5	JH 13142	PAU-Ludhiana	All	DMR205	1104	1148	1315
6	HKH342	HAU-Hissar	All	DMR206	1049	1238	1268
7	PMH 2277	Prabhat Agri-Biotech Ltd	All	DMR207	1011	1247	1351
8	DMRH1418	IIMR-New Delhi	All	DMR208	1125	1134	1362
9	HT 51412182	Hytech Seeds	All	DMR209	1117	1200	1363
10	JH 31607	PAU-Ludhiana	All	DMR210	1035	1240	1269
11	DH1413	IIMR-New Delhi	All	DMR211	1091	1132	1379
12	IAHM 2013-26	Ambikapur	All	DMR212	1038	1230	1292
13	DAS-MH-307	Dow Agro Science	All	DMR213	1060	1170	1281
14	MMH 4-13	Dholi	All	DMR214	1030	1256	1374
15	NMH-3662	Nirmal seed Pvt ltd	All	DMR215	1025	1232	1385
16	JH 13117	PAU-Ludhiana	All	DMR216	1001	1197	1348
17	DH1401	IIMR-New Delhi	All	DMR217	1067	1162	1316
18	DAS-MH-306	Dow Agro Science	All	DMR218	1036	1172	1370
19	BH 412084	ANGARAU-Hyderabad	All	DMR219	1058	1188	1262
20	DH1405	IIMR-New Delhi	All	DMR220	1026	1136	1360
21	EH-2235	Udaipur	All	DMR221	1034	1243	1352
22	EH-2372	Udaipur	All	DMR222	1116	1179	1345
23	CMH11-615	TNAU-Coimbatore	All	DMR223	1122	1258	1280
24	TMMH 801	Tri Murti Seeds	All	DMR224	1059	1248	1388
25	Bio 719	Bio seeds	All	DMR225	1101	1155	1313
26	UDMH-115	SKUAST - Jammu	All	DMR226	1087	1190	1287
27	IAHM 2013-33	Ambikapur	All	DMR227	1114	1181	1346
28	JH 13246	PAU-Ludhiana	All	DMR228	1120	1215	1371
29	CMH11-586	TNAU-Coimbatore	All	DMR229	1129	1255	1353
30	HT 51412373	Hytech Seeds	All	DMR230	1113	1251	1277
31	QMH-1025	Kohlapur	All	DMR231	1010	1158	1347
32	BH 412066	ANGARAU-Hyderabad	All	DMR232	1084	1253	1340
33	BH 412120	ANGARAU-Hyderabad	All	DMR233	1069	1159	1289
34	MMH 3-13	Dholi	All	DMR234	1076	1206	1306
35	CMH11-584	TNAU-Coimbatore	All	DMR235	1126	1161	1272
36	BH 412063	ANGARAU-Hyderabad	All	DMR236	1092	1250	1364
37	KDMH 100-3	DHARWAD	All	DMR237	1048	1163	1304
38	TI 8261	Monsanto India Limed	All	DMR238	1118	1246	1307
39	CMH11-593	TNAU-Coimbatore	All	DMR239	1064	1168	1322

E. No.	Name	Institute/Organization	Zone	DMR Code	R1	R2	R3
40	CMH12-665	TNAU-Coimbatore	All	DMR240	1022	1186	1295
41	KH-545	KANCHAN	All	DMR241	1107	1184	1366
42	QMH-1034	Kohlapur	All	DMR242	1017	1149	1263
43	LMH 114	Bajura Kullu	All	DMR243	1106	1221	1339
44	BH 412044	ANGARAU-Hyderabad	All	DMR244	1057	1146	1390
45	KMH12-25	KANGRA	All	DMR245	1005	1150	1325
46	UDMH-101	SKUAST & Jammu	All	DMR246	1054	1142	1296
47	KH-517 Gold	KANCHAN	All	DMR247	1020	1194	1297
48	HT 51412616	Hytech Seeds	All	DMR248	1029	1165	1314
49	JH 13054	PAU-Ludhiana	All	DMR249	1108	1189	1369
50	AWLH 1	IARI DELHI	All	DMR250	1009	1160	1359
51	DMRH1413	IIMR-New Delhi	All	DMR251	1041	1237	1283
52	JH 13139	PAU-Ludhiana	All	DMR252	1023	1178	1382
53	EH-2380	Udaipur	All	DMR253	1112	1176	1284
54	JH 13224	PAU-Ludhiana	All	DMR254	1063	1205	1381
55	JH 13121	PAU-Ludhiana	All	DMR255	1127	1177	1261
56	JH 13204	PAU-Ludhiana	All	DMR256	1085	1226	1309
57	BH 412064	ANGARAU-Hyderabad	All	DMR257	1044	1213	1276
58	JH 13215	PAU-Ludhiana	All	DMR258	1109	1208	1285
59	MMH 6-13	Dholi	All	DMR259	1004	1151	1329
60	PM 14107M	PHI SEEDS	All	DMR260	1123	1227	1282
61	IAHM 2013-11	Ambikapur	All	DMR261	1088	1169	1342
62	SHIATS MS2	Allahabad	All	DMR262	1124	1225	1365
63	DMRH1301	IIMR-New Delhi	All	DMR263	1073	1254	1336
64	JH 13172	PAU-Ludhiana	All	DMR264	1105	1201	1294
65	BH 412065	ANGARAU-Hyderabad	All	DMR265	1033	1202	1267
66	Zuari Nandiri	Zuari Seeds	All	DMR266	1016	1193	1310
67	AWLH 2	IARI DELHI	All	DMR267	1043	1259	1300
68	IAHM 2013-97	Ambikapur	All	DMR268	1103	1242	1387
69	LMH 314	Bajura Kullu	All	DMR269	1056	1198	1302
70	JH 13119	PAU-Ludhiana	All	DMR270	1072	1143	1279
71	HKH343	HAU-Hissar	All	DMR271	1079	1147	1321
72	MMH 2-13	Dholi	All	DMR272	1061	1229	1367
73	JH 13226	PAU-Ludhiana	All	DMR273	1037	1185	1343
74	MMH 5-13	Dholi	All	DMR274	1086	1196	1266
75	NMH-3612	NIRMAL SEEDS PVT.LTD.	All	DMR275	1075	1233	1264
76	HT 51412081	Hytech Seeds	All	DMR276	1007	1212	1356
77	GPS 05	GPS BIOTECH COMPANY	All	DMR277	1094	1228	1341
78	KF-105	Bhartiya Beej Nigam Ltd.	All	DMR278	1039	1133	1337
79	IAHM 2013-9	Ambikapur	All	DMR279	1045	1174	1383
80	DMRH1417	IIMR-New Delhi	All	DMR280	1111	1260	1380
81	Filler	Dholi	All	DMR281	1052	1245	1355
82	HKH344	HAU-Hissar	All	DMR282	1098	1144	1299
83	DH1415	IIMR-New Delhi	All	DMR283	1080	1217	1358
84	DMRH1302	IIMR-New Delhi	All	DMR284	1119	1234	1332
85	GK-3120	GANGA KAVERI SEEDS	All	DMR285	1018	1252	1377
86	KMH-4811	Kaveri seeds	All	DMR286	1115	1244	1274
87	GPS 01	GPS BIOTECH COMPANY	All	DMR287	1015	1192	1331
88	CMH11-619	TNAU-Coimbatore	All	DMR288	1128	1211	1338

E. No.	Name	Institute/Organization	Zone	DMR Code	R1	R2	R3
89	KDMH 100-8	DHARWAD	All	DMR289	1040	1231	1319
90	BL 900	Bisco Bio Science p ltd.	All	DMR290	1130	1235	1290
91	UDMH-114	SKUAST & Jammu	All	DMR291	1074	1180	1361
92	AH-1323	IARI DELHI	All	DMR292	1027	1257	1373
93	VEH 14-2	B.H.U.	All	DMR293	1031	1182	1327
94	JH 13164	PAU-Ludhiana	All	DMR294	1090	1153	1301
95	PM 14108M	PHI SEEDS	All	DMR295	1095	1214	1308
96	DMRH1410	IIMR-New Delhi	All	DMR296	1002	1183	1278
97	TMMH 826	Tri Murti Seeds	All	DMR297	1032	1204	1386
98	IN 8401	Monsanto India Limed	All	DMR298	1102	1171	1384
99	HT 51412607	Hytech Seeds	All	DMR299	1097	1138	1324
100	JKMH 4848	JK SEEDS	All	DMR300	1050	1224	1376
101	DH1411	IIMR-New Delhi	All	DMR301	1078	1152	1354
102	SMH-3901	Shakthi seeds pvt. Ltd. ANGARA	All	DMR302	1065	1199	1317
103	LMH 414	Bajuara Kullu	All	DMR303	1071	1167	1323
104	REH2013-1	Kanpur	All	DMR304	1012	1210	1303
105	DMRH1416	IIMR-New Delhi	All	DMR305	1003	1223	1286
106	JH 13122	PAU-Ludhiana	All	DMR306	1053	1154	1328
107	ZMH-999	Zuari Seeds	All	DMR307	1070	1207	1320
108	REH2013-3	Kanpur	All	DMR308	1121	1236	1350
109	JH 13114	PAU-Ludhiana	All	DMR309	1008	1140	1357
110	BH 412067	ANGARAU-Hyderabad	All	DMR310	1093	1220	1273
111	JH 31605	PAU-Ludhiana	All	DMR311	1100	1219	1349
112	PM 14106M	PHI SEEDS	All	DMR312	1024	1239	1326
113	DH1403	IIMR-New Delhi	All	DMR313	1046	1249	1344
114	DMRH1412	IIMR-New Delhi	All	DMR314	1019	1173	1288
115	DMRH1308	IIMR-New Delhi	All	DMR315	1051	1164	1330
116	LMH 214	Bajuara Kullu	All	DMR316	1110	1222	1375
117	Proline 786	Proline seed	All	DMR317	1099	1175	1265
118	BL 897	Bisco Bio Science p ltd.	All	DMR318	1081	1156	1368
119	REH2013-4	Kanpur	All	DMR319	1021	1209	1298
120	DMRH- 12-110	IIMR-New Delhi	All	DMR320	1062	1166	1334
121	QMH-1015	Kohlapur	All	DMR321	1077	1141	1318
122	DH1429	IIMR-New Delhi	All	DMR322	1028	1187	1305
123	EH-2381	Udaipur	All	DMR323	1089	1157	1293
124	AH-1322	IARI DELHI	All	DMR324	1082	1216	1270
125	BH 412062	ANGARAU-Hyderabad	All	DMR325	1055	1139	1378
126	RMH 796	Rasi seeds pvt. Ltd.	All	DMR326	1006	1241	1372
127	PMH 4 (C)	PAU-Ludhiana	All	DMR327	1042	1191	1312
128	HM9(C)	HAU-Hissar	All	DMR328	1083	1135	1389
129	HM10(C)	HAU-Hissar	All	DMR329	1066	1195	1291
130	Bio -9637(C)	Bio seeds	All	DMR330	1096	1137	1271

Trial. 63 (Early)

Trial No. : Early Maturity (IVT) (63)
 Year (Season): 2014-Kharif
 Replication : 3
 Row No. : 2
 Row Length: 4 mts.
 Locations: 29

Almora, Bajaura, Barapani, Kangra, Udhmapur, Gossaigoan, Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Arabhavi, Mandya, Karimnagar, Hyderabad, Coimbatore, Vagarai, Kolhapur, Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua

E.No.	Name	Institute/Organization	Zone	DMR Code	R1	R2	R3
1	CMH12-675	TNAU-Coimbatore	All	DMR340	1401	1490	1520
2	HKH345	HAU	All	DMR341	1402	1474	1511
3	GYH-0461	Godhara	All	DMR342	1403	1485	1528
4	CMH10-552	TNAU-Coimbatore	All	DMR343	1404	1462	1508
5	AH-1320	IARI DELHI	All	DMR344	1405	1454	1495
6	AH-1319	IARI DELHI	All	DMR345	1406	1493	1537
7	AH 7002	IARI DELHI	All	DMR346	1407	1453	1538
8	DAS-MH-502	Dow Agro Science	All	DMR347	1408	1479	1501
9	LMH 614	Bajura Kullu	All	DMR348	1409	1464	1506
10	FH 3703	Almora	All	DMR349	1410	1459	1503
11	BH 412055	Hyderabad	All	DMR350	1411	1468	1500
12	KF-95	Bhartiya Beej Nigam Ltd.	All	DMR351	1412	1488	1530
13	KMH12-18	KANGRA	All	DMR352	1413	1486	1524
14	EH-2244	Udaipur	All	DMR353	1414	1491	1505
15	K-26	KANCHAN	All	DMR354	1415	1477	1539
16	PM 14109E	PHI SEEDS	All	DMR355	1416	1463	1531
17	FH 3704	Almora	All	DMR356	1417	1460	1529
18	AH 9001	IARI DELHI	All	DMR357	1418	1465	1496
19	CMH10-527	TNAU-Coimbatore	All	DMR358	1419	1467	1510
20	DH 283	Pantnagar	All	DMR359	1420	1487	1514
21	PM 14110E	PHI SEEDS	All	DMR360	1421	1484	1536
22	CMH12-697	TNAU-Coimbatore	All	DMR361	1422	1482	1525
23	DMRE1403	IIMR-New Delhi	All	DMR362	1423	1476	1519
24	KMH12-8	KANGRA	All	DMR363	1424	1489	1502
25	CMH12-691	TNAU-Coimbatore	All	DMR364	1425	1457	1507
26	KDMH 100-1	DHARWAD	All	DMR365	1426	1455	1540
27	AH-1318	IARI DELHI	All	DMR366	1427	1452	1535
28	AH-1321	IARI DELHI	All	DMR367	1428	1472	1497
29	AH 7001	IARI DELHI	All	DMR368	1429	1483	1534
30	EH-2371	Udaipur	All	DMR369	1430	1461	1499
31	KMH12-9	KANGRA	All	DMR370	1431	1469	1509
32	FH 3695	Almora	All	DMR371	1432	1471	1517
33	DH 290	Pantnagar	All	DMR372	1433	1458	1504
34	HKH346	HAU	All	DMR373	1434	1449	1516
35	SAMH-221	Super Agro seedsp pvt.ltd.	All	DMR374	1435	1451	1518
36	OMH 11-1	Bhubaneshwer	All	DMR375	1436	1492	1512

E.No.	Name	Institute/Organization	Zone	DMR Code	R1	R2	R3
37	LMH 514	Bajaura Kullu	All	DMR376	1437	1478	1498
38	DH 286	Pantnagar	All	DMR377	1438	1481	1523
39	GYH-0656	Godhara	All	DMR378	1439	1448	1541
40	AH 5021	IARI DELHI	All	DMR379	1440	1494	1522
41	BH 412071	Hyderabad	All	DMR380	1441	1466	1515
42	JKMH 4025	JK SEEDS	All	DMR381	1442	1480	1521
43	BH 412093	Hyderabad	All	DMR382	1443	1456	1526
44	GWH-0503	Godhara	All	DMR383	1444	1450	1513
45	GWH-0330	Godhara	All	DMR384	1445	1473	1527
46	HKH347	HAU	All	DMR385	1446	1470	1532
47	Prakash (C)	PAU-Ludhiana	All	DMR386	1447	1475	1533

Trial. 64 (Extra Early)

Trial No. : Extra Early Maturity (IVT)

Year (Season): 2014-Kharif

Replication : 3

Row No. : 2

Row Length: 4 mts.

Locations: 29

Almora, Bajaura, Barapani, Kangra, Udhmapur, Gossaigoan, Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi,

E. No.	Name	Institute/Organization	Zone	DMR Code	R1	R2	R3
1	DH 277	Pantnagar	All	DMR391	1552	1565	1578
2	AH-1316	IARI DELHI	All	DMR392	1555	1567	1588
3	APH 27	IARI DELHI	All	DMR393	1562	1571	1582
4	EH-2234	Udaipur	All	DMR394	1556	1566	1586
5	DH 285	Pantnagar	All	DMR395	1560	1569	1583
6	FH 3706	Almora	All	DMR396	1554	1572	1580
7	DH 287	Pantnagar	All	DMR397	1557	1568	1587
8	DH 289	Pantnagar	All	DMR398	1551	1574	1585
9	DH 288	Pantnagar	All	DMR399	1553	1573	1579
10	EH-2236	Udaipur	All	DMR400	1563	1564	1577
11	AH-1317	IARI DELHI	All	DMR401	1561	1576	1589
12	Vivek Hybrid-21 (C)	Almora	All	DMR402	1559	1575	1584
13	Vivek Hybrid-43(C)	Almora	All	DMR403	1558	1570	1581

Trial. 65 - Z-II (Late)

Trial No. : 65 Z - II Late Maturity (AVT-I Year)
 Year (Season): 2014-Kharif
 Replication : 3
 Row No. : 4
 Row Length: 4 mts.
 Locations: 10

Ludhiana, Karnal, Kanpur, Pantnagar, Delhi, Hisar, Aligarh, Jhansi, Gurdaspur, Kapurthala

E. No.	Name	Institute/Organization	Trial no.	Zone	DMR Code	R1	R2	R3
1	VNR 31834	VNR Seeds pvt.Ltd.	65	Z-2	DMR451	2061	2073	2078
2	X35D601	PHI Seed Pvt.Ltd.	65	Z-2	DMR452	2063	2070	2076
3	PMH 3-C	PAU, Ludhiana	65	Z-2	DMR453	2064	2074	2079
4	Bio -9681-C	Bio seeds	65	Z-2	DMR454	2062	2069	2077
5	Seedtech 2324-C	BISCO	65	Z-2	DMR455	2066	2071	2075
6	HM11-C	HAU	65	Z-2	DMR456	2067	2072	2080
7	PMH1-C	PAU, Ludhiana	65	Z-2	DMR457	2065	2068	2081

Trial. 65 - Z-III (Late)

Trial No. : 65 Z - III Late Maturity (AVT-I Year)
 Year (Season): 2014-Kharif
 Replication : 3
 Row No. : 4
 Row Length: 4 mts.
 Locations: 10

Dholi, Ranchi, Bhubneshwar, Varanasi, Baharaich, Medinapur, BHU Campus, Koraput, RRS Madhopur, Chappra

E. No.	Name	Institute/Organization	Trial no.	Zone	DMR Code	R1	R2	R3
1	DKC 9133(IM9133)	Monsanto India Ltd.	65	Z-3	DMR461	2095	2117	2144
2	DKC 9141 (IM8539)	Monsanto India Ltd.	65	Z-3	DMR462	2098	2124	2130
3	HTMH 5108	Hytech Seed India Pvt. Ltd.	65	Z-3	DMR463	2096	2125	2127
4	HTMH 5202	Hytech Seed India Pvt. Ltd.	65	Z-3	DMR464	2104	2126	2142
5	HTMH 5404	Hytech Seed India Pvt. Ltd.	65	Z-3	DMR465	2100	2122	2137
6	KMH-2811	Kaveri Seed Comp. Ltd.	65	Z-3	DMR466	2102	2109	2138
7	RMH-972	Rasi seeds pvt. Ltd.	65	Z-3	DMR467	2092	2112	2132
8	SUPER GA-105	Godrej seeds gentic	65	Z-3	DMR468	2101	2110	2139
9	VNR 31355	VNR Seeds pvt.Ltd.	65	Z-3	DMR469	2099	2120	2134
10	VNR 31834	VNR Seeds pvt.Ltd.	65	Z-3	DMR470	2103	2119	2131
11	Siri 4527	Siri seed	65	Z-3	DMR471	2106	2121	2129
12	JH 12247	PAU, Ludhiana	65	Z-3	DMR472	2094	2115	2141
13	Bio 032 (BB032)	Bio Seed	65	Z-3	DMR473	2105	2123	2143
14	PMH 3-C	PAU, Ludhiana	65	Z-3	DMR474	2097	2113	2140
15	Bio -9681-C	Bio seeds	65	Z-3	DMR475	2091	2111	2128
16	Seedtech 2324-C	BISCO	65	Z-3	DMR476	2093	2116	2136
17	HM11-C	HAU	65	Z-3	DMR477	2107	2114	2133
18	PMH1-C	PAU	65	Z-3	DMR478	2108	2118	2135

Trial. 65, 69 - Z-IV (Late)

Trial No. : 65 Z - IV Late Maturity (AVT-I-II Year)
 Year (Season): 2014-Kharif
 Replication : 3
 Row No. : 6

Row Length: 4 mts.

Locations:

Hyderabad, Shegal Founadation ICRISAT, Karimnagar, VRDC KSSC Dharwad, Kolhapur, Dharwad, Arbahvi, Mandya, Vagarai, Coimbatore, ARS Devihosur, Almel, ARS Belavatagi, Dhule, Parbhani, Niphad Nasik

E. No.	Name	Institute/Organization	Trial no.	Zone	DMR Code	R1	R2	R3
Tr. 65								
1	DKC 9141 (IM8539)	Momsanto India Ltd.	65,69	Z-4	DMR410	1968	1977	1990
2	HTMH 5108	Hytech Seed India Pvt. Ltd.	65,69	Z-4	DMR411	1965	1976	1988
3	IM 8562	Momsanto India Ltd.	65,69	Z-4	DMR412	1964	1985	1987
4	RMH-972	Rasi seeds pvt. Ltd.	65,69	Z-4	DMR413	1962	1979	1991
5	X35D601	PHI Seed Pvt.Ltd.	65,69	Z-4	DMR414	1967	1978	1996
Tr. 69								
6	LTH-22	Yagaanti Seed	65,69	Z-4	DMR415	1966	1983	1992
7	NMH-1265	Nuziveedu Seed	65,69	Z-4	DMR416	1969	1980	1995
8	Geo Primium Diamond	Geo Biotech	65,69	Z-4	DMR417	1963	1982	1989
9	PMH 3-C	PAU, Ludhiana	65,69	Z-4	DMR418	1973	1981	1999
10	Bio -9681-C	Bio seeds	65,69	Z-4	DMR419	1972	1975	1997
11	Seedtech 2324-C	BISCO	65,69	Z-4	DMR420	1970	1984	1994
12	HM11-C	HAU	65,69	Z-4	DMR421	1971	1986	1998
13	PMH1-C	PAU, Ludhiana	65,69	Z-4	DMR422	1961	1974	1993

Trial. 65 - Z-V (Late)

Trial No. : 65 Z - V Late Maturity (AVT-IYear)

Year (Season): 2014-Kharif

Replication : 3

Row No. : 4

Row Length: 4 mts.

Locations: 13

Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabua, Bhiloda, AAR Dahod, Rajpur, Jagadapur, RARS Ujjain, ZARS Indore, ARS Kota

E. No.	Name	Institute/Organization	Trial no.	Zone	DMR Code	R1	R2	R3
1	CP.999	C.P.Seed India Pvt.Ltd.	65	Z-5	DMR431	2017	2038	2046
2	DAS-MH-105	Dow Agro Science	65	Z-5	DMR432	2024	2034	2048
3	DKC 9133(IM9133)	Momsanto India Ltd.	65	Z-5	DMR433	2014	2041	2052
4	DKC 9141 (IM8539)	Momsanto India Ltd.	65	Z-5	DMR434	2018	2026	2042
5	HTMH 5202	Hytech Seed India Pvt. Ltd.	65	Z-5	DMR435	2010	2030	2051
6	IM 8556	Momsanto India Ltd.	65	Z-5	DMR436	2012	2037	2057
7	JANA HIT	Godrej seeds gentics	65	Z-5	DMR437	2019	2029	2045
8	PRO-392	Rasi seeds pvt. Ltd.	65	Z-5	DMR438	2016	2027	2054
9	SUPER GA-105	Godrej seeds gentics	65	Z-5	DMR439	2022	2031	2049
10	X35D601	PHI Seed Pvt.Ltd.	65	Z-5	DMR440	2023	2036	2044
11	Siri 4527	Siri seed	65	Z-5	DMR441	2025	2033	2055
12	PMH 3-C	PAU, Ludhiana	65	Z-5	DMR442	2011	2039	2056
13	Bio -9681-C	Bio seeds	65	Z-5	DMR443	2021	2040	2047
14	Seedtech 2324-C	BISCO	65	Z-5	DMR444	2020	2032	2043
15	HM11-C	HAU	65	Z-5	DMR445	2015	2035	2053
16	PMH1-C	PAU, Ludhiana	65	Z-5	DMR446	2013	2028	2050

Trial. 66 - Z-I (Medium)

Trial No. : 66 Z - I Medium Maturity (AVT-I Year)
 Year (Season): 2014-Kharif
 Replication : 3
 Row No. : 4
 Row Length: 4 mts.

Locations:

Almora, Bajaura, Udhampur, Kangra, Bertin, Dhaulakuan, Barapani, Gossaioogaon, Poonch, Rajouri

E. No.	Name	Institute/Organization	Trial no.	Zone	DMR Code	R1	R2	R3
1	LG 32.82	Bisco Bio Science Pvt. Ltd.	Tr.66	Z-1	DMR481	2152	2164	2166
2	PMH 4 (C)	PAU	Tr.66	Z-1	DMR482	2155	2160	2171
3	HM9(C)	HAU	Tr.66	Z-1	DMR483	2154	2163	2169
4	HM10(C)	HAU	Tr.66	Z-1	DMR484	2151	2158	2165
5	Bio -9637(C)	Bio seeds	Tr.66	Z-1	DMR485	2156	2162	2170
6	Seed tech 2324-F	Bisco Bio Science Pvt. Ltd.	Tr.66	Z-1	DMR486	2153	2159	2168
7	Bio -9637-F	Bio seeds	Tr.66	Z-1	DMR487	2157	2161	2167

Trial. 66,70 - Z-II (Medium)

Trial No. : 66,70 Z - II Medium Maturity (AVT-I-II Year)
 Year (Season): 2014-Kharif
 Replication : 3
 Row No. : 6
 Row Length: 4 mts.

Locations:

Ludhiana, Karnal, Kanpur, Pantnagar, delhi, Hisar, Aligarh, Jhansi, Gurdaspur, Kapurthala

E. No.	Name	Institute/Organization	Trial no.	Zone	DMR Code	R1	R2	R3
Tr.66								
1	AQH 4	IARI Delhi	Tr.66,70	Z-2	DMR491	2186	2199	2217
2	CMH 10-547	TNAU	Tr.66,70	Z-2	DMR492	2194	2198	2215
3	DKC 9144 (IM8478)	Monsanto India Ltd.	Tr.66,70	Z-2	DMR493	2191	2197	2218
4	DKC 9149 (IM8581)	Monsanto India Ltd.	Tr.66,70	Z-2	DMR494	2192	2210	2222
5	FCH 11231	Foliage	Tr.66,70	Z-2	DMR495	2181	2208	2221
6	JKMH 4545	J.K.Seed	Tr.66,70	Z-2	DMR496	2184	2204	2219
7	S-6750	Syngenta India Ltd.	Tr.66,70	Z-2	DMR497	2183	2207	2212
8	TH-38	Yaaganti Seeds	Tr.66,70	Z-2	DMR498	2185	2209	2220
Tr.70								
9	DKC 9145 (IJ8533)	Monsanto India Ltd.	Tr.66,70	Z-2	DMR499	2190	2202	2211
10	Rasi-3033	Rasi Seed Pvt Ltd.	Tr.66,70	Z-2	DMR500	2188	2203	2223
11	PMH 4 (C)	PAU	Tr.66,70	Z-2	DMR501	2189	2196	2213
12	HM9(C)	HAU	Tr.66,70	Z-2	DMR502	2187	2205	2214
13	HM10(C)	HAU	Tr.66,70	Z-2	DMR503	2182	2206	2225
14	Bio -9637(C)	Bio seeds	Tr.66,70	Z-2	DMR504	2193	2200	2216
15	HM4-C	HAU	Tr.66,70	Z-2	DMR505	2195	2201	2224

Trial. 66 - Z-III(Medium)

Trial No. : 66 Z - III Medium Maturity (AVT-I Year)

Year (Season): 2014-Kharif

Replication : 3

Row No. : 4

Row Length: 4 mts.

Locations:

Dholi, Ranchi, Bhubneshwar, Varanasi, Baharaich, Medinapur, BHU Campus, Koraput, RRS Madhopur, Chappra

E. No.	Name	Institute/Organization	Trial no.	Zone	DMR Code	R1	R2	R3
1	AQH 9	IARI Delhi	Tr.66	Z-3	DMR511	2234	2244	2256
2	CMH 11-582	TNAU	Tr.66	Z-3	DMR512	2231	2245	2259
3	DKC 8144 (IM 8479)	Monsanto India Ltd.	Tr.66	Z-3	DMR513	2235	2241	2258
4	DKC 9144 (IM8478)	Monsanto India Ltd.	Tr.66	Z-3	DMR514	2232	2249	2254
5	Kuber shakthi	Shakthi Seeds Pvt. Ltd.	Tr.66	Z-3	DMR515	2239	2243	2255
6	S-6750	Syngenta India Ltd.	Tr.66	Z-3	DMR516	2240	2250	2251
7	PMH 4 (C)	PAU	Tr.66	Z-3	DMR517	2236	2247	2260
8	HM9(C)	HAU	Tr.66	Z-3	DMR518	2237	2246	2257
9	HM10(C)	HAU	Tr.66	Z-3	DMR519	2238	2248	2252
10	Bio -9637(C)	Bio seeds	Tr.66	Z-3	DMR520	2233	2242	2253

Trial. 66 - Z-IV(Medium)

Trial No. : 66 Z - IV Medium Maturity (AVT-I Year)

Year (Season): 2014-Kharif

Replication : 3

Row No. : 4

Row Length: 4 mts.

Locations:

Hyderabad, Shegal Founadation ICRISAT, Karimnagar, VRDC KSSC Dharwad, Kolhapur, Dharwad, Arbahvi

Mandya, Vagarai, Coimbatore, ARS Devihosur, Almel, ARS Belavatagi, Dhule, Parbhani, Niphad Nasik

E. No.	Name	Institute/Organization	Trial no.	Zone	DMR Code	R1	R2	R3
1	AQH 8	IARI Delhi	Tr.66	Z-4	DMR521	2278	2282	2300
2	DKC 9144 (IM8478)	Monsanto India Ltd.	Tr.66	Z-4	DMR522	2275	2292	2294
3	HTMH 5402	Hytech Seeds	Tr.66	Z-4	DMR523	2272	2285	2298
4	JKMH 4545	J.K.Seed	Tr.66	Z-4	DMR524	2271	2287	2295
5	LG 32.82	Bisco Bio Science Pvt. Ltd.	Tr.66	Z-4	DMR525	2280	2288	2299
6	FCH 11231	Foliage Crop	Tr.66	Z-4	DMR526	2273	2284	2297
7	PMH 4 (C)	PAU	Tr.66	Z-4	DMR527	2281	2291	2302
8	HM9(C)	HAU	Tr.66	Z-4	DMR528	2274	2286	2296
9	HM10(C)	HAU	Tr.66	Z-4	DMR529	2277	2290	2293
10	Bio -9637(C)	Bio seeds	Tr.66	Z-4	DMR530	2276	2283	2301
11	HM8-C	HAU	Tr.66	Z-4	DMR531	2279	2289	2303

Trial. 66,70 - Z-V (Medium)

Trial No. : 66,70 Z -V Medium Maturity (AVT-I-II Year)

Year (Season): 2014-Kharif

Replication : 3

Row No. : 6

Row Length: 4 mts.

Locations:

Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabua, Bhiloda, AAR Dahod, Rajpur, Jagadapur, RARS Ujjain, ZARS Indore, ARS Kota

E. No.	Name	Origin	Trial no.	Zone	DMR Code	R1	R2	R3
Tr. 66								
1	BH 41150	ANGARAU	Tr.66,70	Z-5	DMR541	2327	2335	2356
2	CMH 10-547	TNAU	Tr.66,70	Z-5	DMR542	2312	2352	2360
3	CMH 11-617	TNAU	Tr.66,70	Z-5	DMR543	2329	2340	2361
4	DKC 8144 (IM 8479)	Monsanto India Ltd.	Tr.66,70	Z-5	DMR544	2328	2346	2354
5	DKC 9144 (IM8478)	Monsanto India Ltd.	Tr.66,70	Z-5	DMR545	2323	2350	2373
6	DKC 9149 (IM8581)	Monsanto India Ltd.	Tr.66,70	Z-5	DMR546	2331	2342	2364
7	EH-2205	MPUAT Udaipur	Tr.66,70	Z-5	DMR547	2311	2344	2366
8	EH-2240	MPUAT Udaipur	Tr.66,70	Z-5	DMR548	2315	2333	2367
9	EHL 3412	Bajaura Centre	Tr.66,70	Z-5	DMR549	2321	2336	2353
10	HTMH 5402	Hytech Seeds	Tr.66,70	Z-5	DMR550	2325	2341	2357
11	JKMH 4545	J.K.Seed	Tr.66,70	Z-5	DMR551	2314	2332	2355
12	KMH-5951	Kaveri seeds	Tr.66,70	Z-5	DMR552	2317	2351	2371
13	LG 32.82	Bisco Bio Science Pvt. Ltd.	Tr.66,70	Z-5	DMR553	2322	2338	2372
14	PRMH-2177	Pravardhan Seeds Pvt. Ltd.	Tr.66,70	Z-5	DMR554	2318	2347	2365
15	KDMH 2705	Krishi dhan Seed	Tr.66,70	Z-5	DMR555	2313	2348	2363
16	KNMH 4010131	Krimnagar	Tr.66,70	Z-5	DMR556	2319	2349	2369
Tr.70								
17	DKC 9145 (IJ8533)	Monsanto India Ltd.	Tr.66,70	Z-5	DMR557	2330	2339	2359
18	PMH 4 (C)	PAU	Tr.66,70	Z-5	DMR558	2324	2334	2358
19	HM9(C)	HAU	Tr.66,70	Z-5	DMR559	2326	2343	2362
20	HM10(C)	HAU	Tr.66,70	Z-5	DMR560	2316	2337	2370
21	Bio -9637(C)	Bio seeds	Tr.66,70	Z-5	DMR561	2320	2345	2368

Agronomy**Tr.69-Late****Trial N X G - Late-69 - Z-IV**

N X G Trial : Late Z - IV

Late Maturity (AVT 2nd Year)

Year (Season):

2014-Kharif

Locations: Karimnagar, Hyderabad

E.No.	Hybrid Name	Institute/organization	Trial no.	Zone	DMR Code
1	LTH-22	Yagaanti Seed	Tr.69	Z-4	DMR771
2	NMH-1265	Nuziveedu Seed	Tr.69	Z-4	DMR772
3	Geo Primium Diamond	Geo Biotech	Tr.69	Z-4	DMR773
4	PMH 1-C	Ludiana	Tr.69	Z-4	DMR774
5	PMH 3-C	Ludiana	Tr.69	Z-4	DMR775
6	Bio -9681-C	Bio seeds	Tr.69	Z-4	DMR776
7	Seedtech 2324	BISCO	Tr.69	Z-4	DMR777

Tr. 70-Medium**Trial N X G - Medium- Z-II**

N X G Trial :Medium Z - II

Medium Maturity (AVT 2nd Year)

Year (Season):

2014-Kharif

E.No.	Hybrid Name	Institute/organization	Trial no.	Zone	DMR Code
1	DKC 9145 (IJ8533)	Monsanto India Ltd.	Tr.70	Z-2	DMR781
2	Rasi-3033	Rasi Seed Pvt Ltd.	Tr.70	Z-2	DMR782
3	PMH 4 (C)	PAU	Tr.70	Z-2	DMR783
4	HM9(C)	HAU	Tr.70	Z-2	DMR784
5	Bio -9637(C)	Bio seeds	Tr.70	Z-2	DMR785

Trial N X G -Medium- Z-V

N X G Trial : Medium Z - V

Medium Maturity (AVT 2nd Year)

Year (Season):

2014-Kharif

Locations: Chidwara, Banswara

E.No.	Hybrid Name	Institute/organization	Trial no.	Zone	DMR Code
1	DKC 9145 (IJ8533)	Monsanto India Ltd.	Tr.70	Z-5	DMR791
2	PMH 4 (C)	PAU	Tr.70	Z-5	DMR792
3	HM9(C)	HAU	Tr.70	Z-5	DMR793
4	Bio -9637(C)	Bio seeds	Tr.70	Z-5	DMR794

Tr.71-Early**Trial N X G -Early- Z-I**

N X G Trial : Early Z - I

Early Maturity (AVT 2nd Year)

Year (Season):

2014-Kharif

Locations: Almora, Bajaura

E.No.	Hybrid Name	Institute/organization	Trial no.	Zone	DMR Code
1	EH-2212	Udaipur	Tr.71	Z-1	DMR801
2	FH 3605	Almora	Tr.71	Z-1	DMR802
3	FH 3626	Almora	Tr.71	Z-1	DMR803
4	Prakash (C)	PAU	Tr.71	Z-1	DMR804

Trial N X G -Early- Z-IV

N X G Trial : Early Z - IV

Early Maturity (AVT 2nd Year)

Year (Season):

2014-Kharif

Locations: Karimnagar, Arbhavi

E.No.	Hybrid Name	Institute/organization	Trial no.	Zone	DMR Code
1	FH 3605	Almora	Tr.71	Z-4	DMR811
2	KMH-7021	Kaveri Seed	Tr.71	Z-4	DMR812
3	Prakash (C)	PAU	Tr.71	Z-4	DMR813
4	PMH4-Filler	PAU	Tr.71	Z-4	DMR814

Trial N X G -Early- Z-V

N X G Trial : Early Z - V

Early Maturity (AVT 2nd Year)

Year (Season):

2014-Kharif

Locations: Chidwara, Godhra

E.No.	Hybrid Name	Institute/organization	Trial no.	Zone	DMR Code
1	CMH10-531	TNAU	Tr.71	Z-5	DMR821
2	Prakash (C)	PAU	Tr.71	Z-5	DMR822
3	BIO9637-Filler	Bio	Tr.71	Z-5	DMR823
4	BIO9681-Filler	Bio	Tr.71	Z-5	DMR824

Tr.SC-III**Trial N X G - Late - Zone-All**

N X G Trial : SC Z -All

Tr.SC-III (Sweet Corn)

Year (Season):

2014-Kharif

Locations: Bajura, Almora, Ludhiana, Karnal, Bahraich, Bubhneswar, Karimnagar, Hyderabad

Chindwara, Banswara

E.N	Hybrid Name	Institute/orga.	Trial no.	Zone	DMR Code
1	Bisco Madhu	Bisco Bio Science p ltd.	Tr.SC-III	All	DMR831
2	Bajoura Sweet Corn	Bajura Kullu	Tr.SC-III	All	DMR832
3	FSCH 18	Almora	Tr.SC-III	All	DMR833
4	KSCH-333	Kaveri seeds	Tr.SC-III	All	DMR834
5	Madhuri-C	ANGRAU	Tr.SC-III	All	DMR835
6	WOSC-C	ANGRAU	Tr.SC-III	All	DMR836

Tr.PC-III**Trial N X G - Late - Zone-All**

N X G Trial : PC Z -All

Tr.PC-III (Popcorn Corn)

Year (Season):

2014-Kharif

Locations: Bajura, Almora, Ludhiana, Karnal, Bahraich, Bubhneshwar, Karimnagar, Hyderabad
Chindwara, Banswara

E.N	Hybrid Name	Institute/orga.	Trial no.	Zone	DMR Code
1	Bajoura Popcorn-2	Bajura Kullu	PC-3	All	DMR841
2	VL Pop corn-2	Almora	PC-3	All	DMR842
3	VL Pop corn-C	Almora	C	All	DMR843
4	BIO9681-Filler	Bio	F	All	DMR844

Tr.BC-III**Trial N X G - Late - Zone-All**

N X G Trial : BC Z -All

Tr.BC-III (Babycorn)

Year (Season):

2014-Kharif

Locations: Bajura, Almora, Ludhiana, Karnal, Bahraich, Bubhneshwar, Karimnagar, Hyderabad
Chindwara, Banswara

E.N	Hybrid Name	Institute/orga.	Trial no.	Zone	DMR Code
1	Vivek Hybrids-27	Almora	BC3	All	DMR851
2	HM4-C	HAU	C	All	DMR852
3	Seed Tech2324-Filler	Bisco	Filler	All	DMR853
4	HQPM-4-Filler	HAU	Filler	All	DMR854

Tr. Late Maturity (IVT)-Patho

Trial No. : Late Pathology, Nematology and Soil Science Trial - Late

Year (Season): 2014-Kharif

Replication : 2

Row No. : 2

Row Length: 4 mts.

Pathology: Bajaura, Dhaura kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani

Nematology: Udaipur

Soil Science: Pantnagar

E.No.	Name	Organization/Center	Trial	DMR Code	R1	R2
1	JH 13183	Ludhiana	Tr.Path	PATH21	1030	1191
2	MAH-974	Mandya	Tr.Path	PATH22	1029	1138
3	K-25 Gold	Kanchan	Tr.Path	PATH23	1057	1221
4	IN 8602	Monsanto India Limed	Tr.Path	PATH24	1063	1139
5	PM 14105L	PHI SEEDS	Tr.Path	PATH25	1036	1234
6	NMH 1605	Nath Bio- Genes (I) Ltd.	Tr.Path	PATH26	1091	1238
7	JH 13197	Ludhiana	Tr.Path	PATH27	1065	1149
8	ADV 0990293	Advanta limited.	Tr.Path	PATH28	1069	1233
9	CSM1	IARI DELHI	Tr.Path	PATH29	1115	1121
10	JH 13041	Ludhiana	Tr.Path	PATH30	1052	1220
11	Super 777	SUPER SEEDS	Tr.Path	PATH31	1038	1125
12	SAMH-378	Super Agro seedsp pvt.ltd.	Tr.Path	PATH32	1060	1136
13	NT 6325	SYNGENTA	Tr.Path	PATH33	1043	1197
14	GYH-0652	Godhara	Tr.Path	PATH34	1095	1150
15	AMH-3436	Ajeet seeds ltd.	Tr.Path	PATH35	1109	1215
16	JH 13045	Ludhiana	Tr.Path	PATH36	1106	1207
17	CMH12-667	TNAU	Tr.Path	PATH37	1077	1193
18	GOLD 1166	GREEN GOLD SEEDS	Tr.Path	PATH38	1005	1228
19	Srikar 3033	Hyderabad	Tr.Path	PATH39	1074	1222
20	DMRH1413	IIMR-New Delhi	Tr.Path	PATH40	1067	1131
21	DAS-MH-107	Dow Agro Science	Tr.Path	PATH41	1104	1206
22	AH 7005	IARI DELHI	Tr.Path	PATH42	1116	1165
23	HKH422	HAU	Tr.Path	PATH43	1102	1162
24	REH2013-2	kanpur	Tr.Path	PATH44	1100	1179
25	JH 13244	Ludhiana	Tr.Path	PATH45	1103	1230
26	JH 12063	Ludhiana	Tr.Path	PATH46	1001	1159
27	NMH-1247	NUZIVEEDU SEEDS	Tr.Path	PATH47	1099	1134
28	JH 13094	Ludhiana	Tr.Path	PATH48	1016	1176
29	JH 13252	Ludhiana	Tr.Path	PATH49	1084	1172
30	CMH12-663	TNAU	Tr.Path	PATH50	1049	1133
31	NT 8441	SYNGENTA	Tr.Path	PATH51	1044	1224
32	BH 412095	Hyderabad	Tr.Path	PATH52	1107	1169
33	JKMH 4242	JK SEEDS	Tr.Path	PATH53	1058	1199
34	HT 51412373	Hytech Seeds	Tr.Path	PATH54	1048	1122
35	ADV 0990296	Advanta limited.	Tr.Path	PATH55	1008	1188

E.No.	Name	Organization/Center	Trial	DMR Code	R1	R2
36	JH 13230	Ludhiana	Tr.Path	PATH56	1003	1203
37	Gin 02	Bangalore	Tr.Path	PATH57	1009	1213
38	BH 412140	Hyderabad	Tr.Path	PATH58	1118	1130
39	SAFAL X-2	SAFAL SEEDS COMPANY	Tr.Path	PATH59	1090	1190
40	CMH10-555	TNAU	Tr.Path	PATH60	1112	1209
41	CSM2	IARI DELHI	Tr.Path	PATH61	1047	1123
42	Gin 01	Bangalore	Tr.Path	PATH62	1066	1175
43	IN 8570	Monsanto India Limed	Tr.Path	PATH63	1078	1178
44	siri -4555	siri seeds	Tr.Path	PATH64	1035	1147
45	JH 13282	Ludhiana	Tr.Path	PATH65	1098	1218
46	super 1177	SUPER SEEDS	Tr.Path	PATH66	1006	1229
47	JH 12010	Ludhiana	Tr.Path	PATH67	1007	1180
48	Bio-069	Bio seeds	Tr.Path	PATH68	1024	1173
49	JH 13037	Ludhiana	Tr.Path	PATH69	1025	1198
50	VNR 4325	VNR Seeds pvt.Ltd.	Tr.Path	PATH70	1068	1170
51	NMH 1008	Nath Bio- Genes (I) Ltd.	Tr.Path	PATH71	1014	1148
52	BH 412096	Hyderabad	Tr.Path	PATH72	1033	1195
53	BH 412141	Hyderabad	Tr.Path	PATH73	1028	1200
54	VNR 31862	VNR Seeds pvt.Ltd.	Tr.Path	PATH74	1054	1160
55	DMRH1308	IIMR-New Delhi	Tr.Path	PATH75	1022	1124
56	JKMH 4023	JK SEEDS	Tr.Path	PATH76	1051	1144
57	DAS-MH-106	Dow Agro Science	Tr.Path	PATH77	1045	1182
58	REH2013-6	kanpur	Tr.Path	PATH78	1080	1168
59	JH 13278	Ludhiana	Tr.Path	PATH79	1059	1141
60	PM 14104L	PHI SEEDS	Tr.Path	PATH80	1093	1127
61	PM 14106L	PHI SEEDS	Tr.Path	PATH81	1117	1166
62	PMSW 4	Sher-e-Kashmir	Tr.Path	PATH82	1079	1236
63	JH 13270	Ludhiana	Tr.Path	PATH83	1088	1142
64	IN 8569	Monsanto India Limed	Tr.Path	PATH84	1086	1155
65	HT 51412616	Hytech Seeds	Tr.Path	PATH85	1113	1152
66	KF-110	Bhartiya Beej Nigam Ltd.	Tr.Path	PATH86	1010	1167
67	JH 13249	Ludhiana	Tr.Path	PATH87	1096	1128
68	GK-3118	GANGA KAVERI SEEDS	Tr.Path	PATH88	1039	1216
69	DMRH1415	IIMR-New Delhi	Tr.Path	PATH89	1041	1183
70	KH-1408	KANCHAN	Tr.Path	PATH90	1002	1208
71	GK-3124	GANGA KAVERI SEEDS	Tr.Path	PATH91	1076	1177
72	115-08-01	Kanchan	Tr.Path	PATH92	1040	1225
73	SYN417750	SYNGENTA	Tr.Path	PATH93	1061	1194
74	JH 13248	Ludhiana	Tr.Path	PATH94	1111	1201
75	IN 8603	Monsanto India Limed	Tr.Path	PATH95	1020	1227
76	CP.555	CP SEEDS LIMILED	Tr.Path	PATH96	1034	1212
77	JH 13044	Ludhiana	Tr.Path	PATH97	1004	1217
78	GH-110204	ARS Arabhavi	Tr.Path	PATH98	1070	1202
79	PMSY -3	Sher-e-Kashmir	Tr.Path	PATH99	1075	1146
80	MAH-957	Mandya	Tr.Path	PATH100	1027	1153
81	GPS -02	GPS BIOTECH	Tr.Path	PATH101	1046	1161

E.No.	Name	Organization/Center	Trial	DMR Code	R1	R2
82	GPMH-1111	ARS Arabhavi	Tr.Path	PATH102	1019	1140
83	DMH-7721	Metahelix	Tr.Path	PATH103	1055	1137
84	HT 51412607	Hytech Seeds	Tr.Path	PATH104	1082	1204
85	DMH-192	Metahelix	Tr.Path	PATH105	1085	1211
86	Proline-2404	proline seed	Tr.Path	PATH106	1110	1187
87	CMH12-671	TNAU	Tr.Path	PATH107	1037	1145
88	CMH11-618	TNAU	Tr.Path	PATH108	1032	1214
89	KMH-3981	Kaveri seeds	Tr.Path	PATH109	1081	1156
90	GH-110145	ARS Arabhavi	Tr.Path	PATH110	1087	1135
91	NT 8711	SYNGENTA	Tr.Path	PATH111	1012	1164
92	Sonam -27	SONAM SEED	Tr.Path	PATH112	1094	1240
93	GPS -03	GPS BIOTECH	Tr.Path	PATH113	1072	1231
94	IN 8902	Monsanto India Limed	Tr.Path	PATH114	1031	1174
95	super 6768	SUPER SEEDS	Tr.Path	PATH115	1042	1151
96	PM 14101L	PHI SEEDS	Tr.Path	PATH116	1018	1186
97	REH2013-5	kanpur	Tr.Path	PATH117	1097	1237
98	DMRH1416	IIMR-New Delhi	Tr.Path	PATH118	1026	1184
99	BH 412131	Hyderabad	Tr.Path	PATH119	1105	1158
100	JH 12150	Ludhiana	Tr.Path	PATH120	1120	1171
101	HKH423	HAU	Tr.Path	PATH121	1013	1205
102	GPMH-1101	ARS Arabhavi	Tr.Path	PATH122	1092	1154
103	VEH 14-1	B.H.U.	Tr.Path	PATH123	1101	1143
104	ADV 1190384	Advanta limited.	Tr.Path	PATH124	1023	1126
105	DKC9125	Monsanto India Limed	Tr.Path	PATH125	1071	1192
106	JH 13023	Ludhiana	Tr.Path	PATH126	1108	1185
107	IN 8903	Monsanto India Limed	Tr.Path	PATH127	1053	1226
108	KH-2192	Kanchan	Tr.Path	PATH128	1056	1219
109	PRMH-189	Pravardhan Seeds pvt.ltd.	Tr.Path	PATH129	1119	1129
110	DMRH1411	IIMR-New Delhi	Tr.Path	PATH130	1015	1181
111	DMRH1409	IIMR-New Delhi	Tr.Path	PATH131	1021	1235
112	IAHM 2013-12	Ambikapur	Tr.Path	PATH132	1114	1132
113	SAMH-225	Super Agro seedsp pvt.ltd.	Tr.Path	PATH133	1083	1196
114	PM 14102L	PHI SEEDS	Tr.Path	PATH134	1011	1157
115	RMH-726	Rasi seeds pvt. Ltd.	Tr.Path	PATH135	1017	1239
116	PMH 1-C	Ludhiana	Tr.Path	PATH136	1073	1232
117	PMH 3-C	Ludhiana	Tr.Path	PATH137	1089	1223
118	Bio -9681-C	Bio seeds	Tr.Path	PATH138	1062	1210
119	Seedtech 2324-C	BISCO	Tr.Path	PATH139	1050	1189
120	HM11-C	HAU	Tr.Path	PATH140	1064	1163

Trial. Medium Maturity (IVT)-Patho

Trial No. : Medium Pathology, Nematology and Soil Science Trial - Medium

Year (Season): 2014-Kharif

Replication : 2

Row No. : 2

Row Length: 4 mts.

Pathology:Bajaura, Dhaura kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi

Hyderabad, Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani

Nematology: Udaipur

Soil Science: Pantnagar

E.No.	Name	Organization/Center	Trial	DMR Code	R1	R2
1	JH 13204	Ludhiana	Tr.Path	PATH151	1299	1478
2	LMH 414	Bajaura Kullu	Tr.Path	PATH152	1290	1415
3	JH 13172	Ludhiana	Tr.Path	PATH153	1274	1399
4	QMH-1025	Kohlapur	Tr.Path	PATH154	1304	1423
5	DMRH1413	IIMR-New Delhi	Tr.Path	PATH155	1283	1480
6	KH-545	Kanchan	Tr.Path	PATH156	1262	1473
7	EH-2372	Udaipur	Tr.Path	PATH157	1320	1427
8	DH1411	IIMR-New Delhi	Tr.Path	PATH158	1376	1394
9	TMMH 801	Tri Murti Seeds	Tr.Path	PATH159	1294	1460
10	BH 412065	Hyderabad	Tr.Path	PATH160	1252	1479
11	IAHM 2013-9	Ambikapur	Tr.Path	PATH161	1257	1409
12	DMRH1410	IIMR-New Delhi	Tr.Path	PATH162	1307	1390
13	BH 412063	Hyderabad	Tr.Path	PATH163	1351	1466
14	UDMH-115	SKUAST & Jammu	Tr.Path	PATH164	1297	1464
15	PM 14106M	PHI SEEDS	Tr.Path	PATH165	1362	1389
16	DMRH1416	IIMR-New Delhi	Tr.Path	PATH166	1316	1461
17	EH-2380	Udaipur	Tr.Path	PATH167	1377	1455
18	BH 412084	Hyderabad	Tr.Path	PATH168	1278	1431
19	QMH-1034	Kohlapur	Tr.Path	PATH169	1287	1381
20	EH-2381	Udaipur	Tr.Path	PATH170	1333	1483
21	DMRH1412	IIMR-New Delhi	Tr.Path	PATH171	1289	1490
22	PMH 2277	PRABHAT AGRI BIOTECH LTD.	Tr.Path	PATH172	1369	1442
23	JH 13246	Ludhiana	Tr.Path	PATH173	1254	1469
24	JH 13139	Ludhiana	Tr.Path	PATH174	1270	1383
25	MMH 5-13	Dholi	Tr.Path	PATH175	1354	1508
26	AH-1323	IARI DELHI	Tr.Path	PATH176	1271	1380
27	EH-2235	Udaipur	Tr.Path	PATH177	1279	1387
28	IAHM 2013-97	Ambikapur	Tr.Path	PATH178	1367	1493
29	HT 51412616	Hytech Seeds	Tr.Path	PATH179	1322	1386
30	QMH-1015	Kohlapur	Tr.Path	PATH180	1253	1494
31	ZMH-999	Zuari Seeds	Tr.Path	PATH181	1313	1499
32	KDMH 100-8	DHARWAD	Tr.Path	PATH182	1359	1398
33	JH 13114	Ludhiana	Tr.Path	PATH183	1366	1470
34	HT 51412373	Hytech Seeds	Tr.Path	PATH184	1306	1385
35	DAS-MH-306	Dow Agro Science	Tr.Path	PATH185	1268	1407

E.No.	Name	Organization/Center	Trial	DMR Code	R1	R2
36	DH1413	IIMR-New Delhi	Tr.Path	PATH186	1292	1404
37	NMH-3612	NIRMAL SEEDS PVT.LTD.	Tr.Path	PATH187	1331	1429
38	DMRH1417	IIMR-New Delhi	Tr.Path	PATH188	1301	1476
39	DH1403	IIMR-New Delhi	Tr.Path	PATH189	1341	1436
40	MMH 2-13	Dholi	Tr.Path	PATH190	1315	1418
41	JH 13164	Ludhiana	Tr.Path	PATH191	1371	1401
42	GPS 01	GPS BIOTECH COMPANY	Tr.Path	PATH192	1296	1441
43	BL 897	Bisco Bio Science p ltd.	Tr.Path	PATH193	1330	1489
44	MMH 4-13	Dholi	Tr.Path	PATH194	1325	1506
45	REH2013-1	Kanpur	Tr.Path	PATH195	1318	1426
46	Proline 786	Proline seed	Tr.Path	PATH196	1255	1434
47	Zuari Nandiri	Zuari Seeds	Tr.Path	PATH197	1309	1410
48	BH 412120	Hyderabad	Tr.Path	PATH198	1263	1501
49	CMH11-593	TNAU	Tr.Path	PATH199	1343	1419
50	REH2013-4	Kanpur	Tr.Path	PATH200	1374	1444
51	Srikar 4689	Hyderabad	Tr.Path	PATH201	1347	1463
52	LMH 314	Bajuaru Kullu	Tr.Path	PATH202	1258	1448
53	KH-517 Gold	Kanchan	Tr.Path	PATH203	1348	1392
54	JH 13054	Ludhiana	Tr.Path	PATH204	1361	1447
55	AWLH 2	IARI DELHI	Tr.Path	PATH205	1328	1446
56	JH 13226	Ludhiana	Tr.Path	PATH206	1295	1472
57	HKH342	HAU	Tr.Path	PATH207	1329	1433
58	TI 8261	Monsanto India Limed	Tr.Path	PATH208	1321	1504
59	CMH11-619	TNAU	Tr.Path	PATH209	1327	1498
60	GK-3120	GANGA KAVERI SEEDS	Tr.Path	PATH210	1365	1456
61	DH1415	IIMR-New Delhi	Tr.Path	PATH211	1298	1428
62	KF-105	Bhartiya Beej Nigam Ltd.	Tr.Path	PATH212	1261	1491
63	HT 51412607	Hytech Seeds	Tr.Path	PATH213	1323	1424
64	IASH 11C022	Indo American	Tr.Path	PATH214	1311	1416
65	JH 13117	Ludhiana	Tr.Path	PATH215	1352	1450
66	AH-1322	IARI DELHI	Tr.Path	PATH216	1264	1393
67	GPS 05	GPS BIOTECH COMPANY	Tr.Path	PATH217	1346	1402
68	PM 14108M	PHI SEEDS	Tr.Path	PATH218	1336	1411
69	KMH-4811	Kaveri seeds	Tr.Path	PATH219	1350	1400
70	BH 412067	Hyderabad	Tr.Path	PATH220	1360	1413
71	HT 51412182	Hytech Seeds	Tr.Path	PATH221	1259	1405
72	CP.201	CP SEEDS LIMILED	Tr.Path	PATH222	1358	1391
73	LMH 114	Bajuaru Kullu	Tr.Path	PATH223	1319	1396
74	UDMH-101	SKUAST & Jammu	Tr.Path	PATH224	1368	1482
75	JH 13142	Ludhiana	Tr.Path	PATH225	1370	1395
76	Bio 719	Bio seeds	Tr.Path	PATH226	1303	1485
77	JH 13119	Ludhiana	Tr.Path	PATH227	1256	1468
78	DMRH- 12-110	IIMR-New Delhi	Tr.Path	PATH228	1317	1388
79	TMMH 826	Tri Murti Seeds	Tr.Path	PATH229	1266	1414
80	DMRH1308	IIMR-New Delhi	Tr.Path	PATH230	1300	1488
81	SHIATS MS2	Allahabad	Tr.Path	PATH231	1372	1382

E.No.	Name	Organization/Center	Trial	DMR Code	R1	R2
82	DMRM1402	IIMR-New Delhi	Tr.Path	PATH232	1260	1471
83	SMH-3901	Shakthi seeds pvt. Ltd. Hyderabad	Tr.Path	PATH233	1280	1449
84	IAHM 2013-33	Ambikapur	Tr.Path	PATH234	1284	1438
85	AWLH 1	IARI DELHI	Tr.Path	PATH235	1379	1475
86	MMH 3-13	Dholi	Tr.Path	PATH236	1338	1406
87	HKH343	HAU	Tr.Path	PATH237	1355	1420
88	RMH 796	Rasi seeds pvt. Ltd.	Tr.Path	PATH238	1305	1474
89	MMH 6-13	Dholi	Tr.Path	PATH239	1340	1495
90	CMH12-665	TNAU	Tr.Path	PATH240	1288	1492
91	IAHM 2013-11	Ambikapur	Tr.Path	PATH241	1282	1403
92	DMRH1301	IIMR-New Delhi	Tr.Path	PATH242	1363	1500
93	HT 51412081	Hytech Seeds	Tr.Path	PATH243	1275	1457
94	NMH-3662	NIRMAL SEEDS PVT.LTD.	Tr.Path	PATH244	1353	1452
95	UDMH-114	SKUAST & Jammu	Tr.Path	PATH245	1285	1507
96	BH 412066	Hyderabad	Tr.Path	PATH246	1378	1384
97	JH 13121	Ludhiana	Tr.Path	PATH247	1286	1440
98	JH 31605	Ludhiana	Tr.Path	PATH248	1324	1462
99	JH 13215	Ludhiana	Tr.Path	PATH249	1265	1477
100	JH 13122	Ludhiana	Tr.Path	PATH250	1345	1459
101	VEH 14-2	B.H.U.	Tr.Path	PATH251	1326	1484
102	JH 31607	Ludhiana	Tr.Path	PATH252	1349	1425
103	IN 8401	Monsanto India Limed	Tr.Path	PATH253	1334	1487
104	DH1429	IIMR-New Delhi	Tr.Path	PATH254	1337	1467
105	JKMH 4848	JK SEEDS	Tr.Path	PATH255	1277	1481
106	REH2013-3	Kanpur	Tr.Path	PATH256	1344	1505
107	IAHM 2013-26	Ambikapur	Tr.Path	PATH257	1308	1421
108	DMRH1302	IIMR-New Delhi	Tr.Path	PATH258	1293	1496
109	BL 900	Bisco Bio Science p ltd.	Tr.Path	PATH259	1356	1430
110	DMRH1418	IIMR-New Delhi	Tr.Path	PATH260	1302	1445
111	KDMH 100-3	DHARWAD	Tr.Path	PATH261	1339	1486
112	CMH11-584	TNAU	Tr.Path	PATH262	1267	1443
113	JH 13224	Ludhiana	Tr.Path	PATH263	1314	1417
114	CMH11-615	TNAU	Tr.Path	PATH264	1251	1439
115	HKH344	HAU	Tr.Path	PATH265	1335	1465
116	KMH12-25	KANGRA	Tr.Path	PATH266	1269	1432
117	DH1405	IIMR-New Delhi	Tr.Path	PATH267	1312	1497
118	LMH 214	Bajura Kullu	Tr.Path	PATH268	1281	1422
119	CMH11-586	TNAU	Tr.Path	PATH269	1273	1435
120	BH 412044	Hyderabad	Tr.Path	PATH270	1332	1454
121	BH 412064	Hyderabad	Tr.Path	PATH271	1276	1451
122	DH1401	IIMR-New Delhi	Tr.Path	PATH272	1272	1412
123	PM 14107M	PHI SEEDS	Tr.Path	PATH273	1357	1502
124	BH 412062	Hyderabad	Tr.Path	PATH274	1364	1458
125	DAS-MH-307	Dow Agro Science	Tr.Path	PATH275	1310	1397

E.No.	Name	Organization/Center	Trial	DMR Code	R1	R2
126	PMH 4 (C)	PAU	Tr.Path	PATH276	1291	1453
127	HM9(C)	HAU	Tr.Path	PATH277	1342	1437
128	HM10(C)	HAU	Tr.Path	PATH278	1373	1503
129	Bio -9637(C)	Bio seeds	Tr.Path	PATH279	1375	1408

Trial. Early Maturity (IVT)-Patho

Trial No. : Early Pathology, Nematology and Soil Science Trial - Early

Year (Season): 2014-Kharif

Replication : 2

Row No. : 2

Row Length: 4 mts.

Pathology: Bajaura, Dhaura kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore,

Nematology: Udaipur

Soil Science: Pantnagar

E.No.	Name	Organization/Center	Trial	DMR Code	R1	R2
1	CMH12-675	TNAU	Tr.Path	PATH285	1522	1596
2	FH 3704	Almora	Tr.Path	PATH286	1535	1573
3	EH-2371	Udaipur	Tr.Path	PATH287	1512	1593
4	KF-95	Bhartiya Beej Nigam Ltd.	Tr.Path	PATH288	1514	1605
5	KMH12-9	Kangra	Tr.Path	PATH289	1526	1576
6	LMH 614	Bajura Kullu	Tr.Path	PATH290	1528	1586
7	BH 412093	Hyderabad	Tr.Path	PATH291	1552	1608
8	HKH345	HAU	Tr.Path	PATH292	1540	1598
9	LMH 514	Bajura Kullu	Tr.Path	PATH293	1547	1594
10	HKH347	HAU	Tr.Path	PATH294	1546	1604
11	CMH12-697	TNAU	Tr.Path	PATH295	1561	1567
12	HKH346	HAU	Tr.Path	PATH296	1554	1609
13	GYH-0656	Godhara	Tr.Path	PATH297	1551	1600
14	KMH12-18	KANGRA	Tr.Path	PATH298	1530	1577
15	AH-1321	IARI DELHI	Tr.Path	PATH299	1559	1584
16	CMH10-527	TNAU	Tr.Path	PATH300	1523	1568
17	AH 9001	IARI DELHI	Tr.Path	PATH301	1525	1602
18	DH 286	Pantnagar	Tr.Path	PATH302	1541	1611
19	BH 412071	Hyderabad	Tr.Path	PATH303	1520	1595
20	JKMH 4025	JK SEEDS	Tr.Path	PATH304	1549	1606
21	PM 14109E	PHI SEEDS	Tr.Path	PATH305	1527	1574
22	DH 290	Pantnagar	Tr.Path	PATH306	1542	1562
23	CMH12-691	TNAU	Tr.Path	PATH307	1518	1591
24	AH 7002	IARI DELHI	Tr.Path	PATH308	1545	1575
25	AH-1318	IARI DELHI	Tr.Path	PATH309	1516	1585
26	AH-1320	IARI DELHI	Tr.Path	PATH310	1557	1565
27	DAS-MH-502	Dow Agro Science	Tr.Path	PATH311	1544	1566
28	AH 5021	IARI DELHI	Tr.Path	PATH312	1529	1581
29	DMRE1403	IIMR-New Delhi	Tr.Path	PATH313	1543	1583
30	FH 3695	Almora	Tr.Path	PATH314	1550	1610

E.No.	Name	Organization/Center	Trial	DMR Code	R1	R2
31	DH 283	Pantnagar	Tr.Path	PATH315	1560	1612
32	KDMH 100-1	DHARWAD	Tr.Path	PATH316	1548	1570
33	AH-1319	IARI DELHI	Tr.Path	PATH317	1558	1587
34	CMH10-552	TNAU	Tr.Path	PATH318	1533	1580
35	KMH12-8	KANGRA	Tr.Path	PATH319	1534	1599
36	OMH 11-1	Bhubaneshwer	Tr.Path	PATH320	1517	1589
37	AH 7001	IARI DELHI	Tr.Path	PATH321	1537	1597
38	K-26	KANCHAN	Tr.Path	PATH322	1511	1569
39	SAMH-221	Super Agro seedsp pvt.ltd.	Tr.Path	PATH323	1521	1590
40	GYH-0461	Godhara	Tr.Path	PATH324	1556	1563
41	GWH-0330	Godhara	Tr.Path	PATH325	1536	1579
42	BH 412055	Hyderabad	Tr.Path	PATH326	1532	1588
43	EH-2244	Udaipur	Tr.Path	PATH327	1513	1564
44	GWH-0503	Godhara	Tr.Path	PATH328	1515	1578
45	PM 14110E	PHI SEEDS	Tr.Path	PATH329	1553	1572
46	FH 3703	Almora	Tr.Path	PATH330	1531	1607
47	Shalimaar maize com 6	Sirinagar	Tr.Path	PATH331	1519	1582
48	Shalimaar maize com 7	Sirinagar	Tr.Path	PATH332	1538	1571
49	Shalimaar maize com 5	Sirinagar	Tr.Path	PATH333	1555	1601
50	Shalimaar maize hybrid 2	Sirinagar	Tr.Path	PATH334	1524	1603
51	Prakash (C)	PAU	Tr.Path	PATH335	1539	1592

Trial. Extra Early Maturity (IVT)-Patho

Trial No. : Extra Early Pathology, Nematology and Soil Science Trial - Extra Early

Year (Season): 2014-Kharif

Replication : 2

Row No. : 2

Row Length: 4 mts.

Pathology: Bajaura, Dhaura kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore,

Nematology: Udaipur

Soil Science: Pantnagar

E.No.	Name	Organization/Center	Trial	DMR Code	R1	R2
10	EH-2236	Udaipur	Tr.Path	PATH341	1629	1639
4	EH-2234	Udaipur	Tr.Path	PATH342	1621	1638
8	DH 289	Pantnagar	Tr.Path	PATH343	1622	1644
2	AH-1316	IARI DELHI	Tr.Path	PATH344	1623	1645
9	DH 288	Pantnagar	Tr.Path	PATH345	1633	1636
1	DH 277	Pantnagar	Tr.Path	PATH346	1631	1637
3	APH 27	IARI DELHI	Tr.Path	PATH347	1632	1634
7	DH 287	Pantnagar	Tr.Path	PATH348	1626	1643
6	FH 3706	Almora	Tr.Path	PATH349	1628	1646
5	DH 285	Pantnagar	Tr.Path	PATH350	1627	1641
11	AH-1317	IARI DELHI	Tr.Path	PATH351	1625	1642
12	Vivek Hybrids-21 (C)	Almora	Tr.Path	PATH352	1624	1640
13	Vivek Hybrids-43(C)	Almora	Tr.Path	PATH353	1630	1635

TRIAL 75 Late (AVT-I-II)

Trial No. : 75 Pathology, Entomology Trial - I Late Maturity

Year (Season): 2014-Kharif

Replication : 2

Row No. : 2

Row Length: 4 mts.

Pathology: Bajaura, Dhaura kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore, Mandya (2), Udaipur (3), Barapani

Entomology: DMR-New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

E.No.	Name	Organization/Center	Trial no.	DMR Code	R1	R2
AVT-I (Late)						
1	VNR 31834	VNR Seeds pvt.Ltd.	75	PE361	1661	1698
2	X35D601	PHI Seed Pvt.Ltd.	75	PE362	1681	1708
3	DKC 9133(IM9133)	Monsanto India Ltd.	75	PE363	1668	1692
4	DKC 9141 (IM8539)	Monsanto India Ltd.	75	PE364	1662	1694
5	HTMH 5108	Hytech Seed India Pvt. Ltd.	75	PE365	1671	1713
6	HTMH 5202	Hytech Seed India Pvt. Ltd.	75	PE366	1669	1699
7	HTMH 5404	Hytech Seed India Pvt. Ltd.	75	PE367	1685	1710
8	KMH-2811	Kaveri Seed Comp.	75	PE368	1676	1714
9	RMH-972	Rasi seeds pvt. Ltd.	75	PE369	1678	1704
10	SUPER GA-105	Godrej seeds gentic	75	PE370	1687	1689
11	VNR 31355	VNR Seeds pvt.Ltd.	75	PE371	1664	1688
12	Siri 4527	Siri seed	75	PE372	1665	1703
13	JH 12247	PAU, Ludhiana	75	PE373	1670	1702
14	Bio 032 (BB032)	Bio Seed	75	PE374	1673	1707
15	IM 8562	Monsanto India Ltd.	75	PE375	1684	1712
16	CP.999	C.P.Seed India Pvt.Ltd.	75	PE376	1675	1697
17	DAS-MH-105	Dow Agro Science	75	PE377	1682	1696
18	IM 8556	Monsanto India Ltd.	75	PE378	1674	1706
19	JANA HIT	Godrej seeds gentic	75	PE379	1672	1705
20	PRO-392	Rasi seeds pvt. Ltd.	75	PE380	1686	1711
AVT-II Late						
21	LTH-22	Yagaanti Seed	75	PE381	1683	1691
22	NMH-1265	Nuziveedu Seed	75	PE382	1663	1690
23	Geo Primium Diamond	Geo Biotech	75	PE383	1667	1700
24	PMH 1-C	Ludhiana	75	PE384	1680	1695
25	PMH 3-C	Ludhiana	75	PE385	1666	1701
26	Bio -9681-C	Bio seeds	75	PE386	1679	1693
27	Seedtech 2324	BISCO	75	PE387	1677	1709

TRIAL 76 Medium (AVT-I-II)

Trial No. : 76 Pathology, Entomology Trial - I Medium Maturity
 Year (Season): 2014-Kharif
 Replication : 2
 Row No. : 2
 Row Length: 4 mts.
 Pathology: Bajaura, Dhaura kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore, Mandya (2), Udaipur (3), Barapani
 Entomology: DMR-New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

E.No.	Name	Organization/Center	Trial no.	DMR Code	R1	R2
AVT-I						
1	LG 32.82	Bisco Bio Science Pvt. Ltd.	76	PE391	1744	1781
2	AQH 4	IARI Delhi	76	PE392	1747	1774
3	CMH 10-547	TNAU	76	PE393	1751	1764
4	DKC 9144 (IM8478)	Monsanto India Ltd.	76	PE394	1725	1753
5	DKC 9149 (IM8581)	Monsanto India Ltd.	76	PE395	1727	1754
6	FCH 11231	Foliage	76	PE396	1738	1763
7	JKMH 4545	J.K.Seed	76	PE397	1728	1761
8	S-6750	Syngenta India	76	PE398	1737	1755
9	TH-38	Yaaganti Seeds	76	PE399	1749	1752
10	AQH 9	IARI Delhi	76	PE400	1734	1777
11	CMH 11-582	TNAU	76	PE401	1743	1756
12	DKC 8144 (IM 8479)	Monsanto India Ltd.	76	PE402	1724	1759
13	Kuber shakthi	Shakthi Seeds Pvt. Ltd.	76	PE403	1739	1760
14	AQH 8	IARI Delhi	76	PE404	1732	1779
15	HTMH 5402	Hytech Seeds	76	PE405	1741	1775
16	BH 41150	ANGARAU	76	PE406	1733	1776
17	CMH 11-617	TNAU	76	PE407	1746	1767
18	EH-2205	MPUAT Udaipur	76	PE408	1740	1765
19	EH-2240	MPUAT Udaipur	76	PE409	1750	1782
20	EHL 3412	Bajaura Centre	76	PE410	1742	1770
21	KMH-5951	Kaveri seeds	76	PE411	1722	1771
22	PRMH-2177	Pravardhan Seeds Pvt. Ltd.	76	PE412	1735	1758
23	KDMH 2705	Krishi dhan Seed	76	PE413	1721	1773
24	KNMH 4010131	Krimnagar	76	PE414	1745	1768
AVT-II						
25	DKC 9145 (IJ8533)	Monsanto India Ltd.	76	PE415	1731	1766
26	Rasi-3033	Rasi Seed Pvt Ltd.	76	PE416	1748	1778
27	PMH 4 (C)	PAU	76	PE417	1736	1762
28	Bio -9637(C)	Bio seeds	76	PE418	1729	1769
29	HM4-C	HAU	76	PE419	1726	1780
30	HM8-C	HAU	76	PE420	1730	1757
31	HM9-C	HAU	76	PE421	1723	1772

TRIAL 77 Early (AVT-I-II)

Trial No. : 77 Pathology, Entomology Trial - I Early Maturity

Year (Season): 2014-Kharif

Replication : 2

Row No. : 2

Row Length: 4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore, Mandya (2), Udaipur (3), Barapani

Entomology: DMR-New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

E.No.	Name	Organization/Center	Trial no.	DMR Code	R1	R2
AVT-I						
1	AH 1261	IARI Delhi	77	PE431	1816	1841
2	DMH-63	Metahelix	77	PE432	1795	1819
3	FH 3664	Almora	77	PE433	1811	1831
4	FH 3669	Almora	77	PE434	1812	1821
5	JH-31610	Ludhiana	77	PE435	1803	1827
6	LG 31.81	Bisco Bio	77	PE436	1807	1832
7	MEH 1-12-13	Dholi	77	PE437	1792	1842
8	Bio 9720	Bio Seeds	77	PE438	1801	1817
9	GWH 0712	Godhra	77	PE439	1794	1839
10	CMH 11-579	TNAU	77	PE440	1808	1820
11	CMH 11-595	TNAU	77	PE441	1815	1818
12	CMH 11-611	TNAU	77	PE442	1800	1830
13	CMH 11-626	TNAU	77	PE443	1805	1837
14	CMH 11-629	TNAU	77	PE444	1793	1838
15	B-52	Kanchan Ganga	77	PE445	1797	1829
16	EH-2214	Udaipur	77	PE446	1802	1826
17	NMH-1258	Nuzeevidu Seed	77	PE447	1796	1828
18	HKH341	HAU	77	PE448	1791	1833
19	EH-2233	Udaipur	77	PE449	1814	1823
20	JH-31613	Ludhiana	77	PE450	1799	1840
AVT-II						
21	EH-2212	Udaipur	77	PE451	1798	1836
22	FH 3605	Almora	77	PE452	1804	1834
23	FH 3626	Almora	77	PE453	1809	1835
24	KMH-7021	Kaveri Seed	77	PE454	1813	1825
25	CMH10-531	TNAU	77	PE455	1806	1822
26	Prakash (C)	PAU	77	PE456	1810	1824

TRIAL 78 Extra Early (AVT-I-II)

Trial No. : 78 Pathology, Entomology Trial - I Extra Early Maturity

Year (Season): 2014-Kharif

Replication : 2

Row No. : 2

Row Length: 4 mts.

Pathology: Bajaura, Dhaura kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore, Mandya (2), Udaipur (3), Barapani

Entomology: DMR-New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

E.No.	Name	Organization/Center	Trial no.	DMR Code	R1	R2
AVT-I						
1	APQH 9	IARI Delhi	78	PE461	1858	1863
2	AH-1212	IARI Delhi	78	PE462	1855	1861
3	KH-7502	Kanchan Ganga	78	PE463	1856	1867
4	Vivek Hybrid-21 (C)	Almora	78	PE464	1857	1869
5	Vivek Hybrid-43(C)	Almora	78	PE465	1860	1864
6	VIVEK QPM9-C	Almora	78	PE466	1851	1868
7	PMH-1-F	PAU	78	PE467	1853	1865
8	BIO 9681-F	Bio Seed	78	PE468	1854	1866
9	PMH3-F	PAU	78	PE469	1859	1862
10	HM10-F	HAU	78	PE470	1852	1870

Pathology Trial: Specialty Corn

Pathology Trial No. : Specialty Corn

Pathology, Nematology and Soil Science

Year (Season):

2014-Kharif

Replication :

2

Row No. :

2

Row Length:

4 mts.

Pathology: Bajaura, Dhaura kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore, Mandya (2), Udaipur (2), Barapani

Nematology: Udaipur

Soil Science: Pantnagar

E.No.	Name	Organization/Center	Trial no.	Zone	DMRCode	R1	R2
QPMI-II-III							
1	BAU QMH-17	Ranchi	QPM-1	All	PSC691	1912	1959
2	BQPMH 18	Hyderabad	QPM-1	All	PSC692	1890	1938
3	BQPMH 36	Hyderabad	QPM-1	All	PSC693	1920	1936
4	KDQH-49	Kashmir	QPM-1	All	PSC694	1915	1968
5	LQPMH 114	Bajuara Kullu	QPM-1	All	PSC695	1908	1941
6	LQPMH 214	Bajuara Kullu	QPM-1	All	PSC696	1926	1956
7	LQPMH 314	Bajuara Kullu	QPM-1	All	PSC697	1911	1949
8	OQPMH 11-6	Bhubaneshwer	QPM-1	All	PSC698	1925	1944
9	VEHQ 11-1	B.H.U.	QPM-2	All	PSC699	1895	1935
10	VEHQ 14-1	B.H.U.	QPM-1	All	PSC700	1882	1945
11	DMRQPM1401	IIMR-New Delhi	QPM-1	All	PSC701	1924	1957
12	MMH QPM-6-12-13	TCA,Dholi	QPM-2	All	PSC702	1893	1954
13	HQPM1-C	HAU	C	All	PSC703	1898	1931
14	HQPM4-C	HAU	C	All	PSC704	1927	1964
15	HQPM5-C	HAU	C	All	PSC705	1909	1934
16	Vivek QPM-9-C	Almora	C	All	PSC706	1914	1972
PC-I-II-III							
17	DMRHP1401	WNC-IIMR-Hyderabad	PC-1	All	PSC707	1905	1973
18	Bajoura Popcorn-2	Bajuara Kullu	PC-3	All	PSC708	1928	1970
19	BPC 3	Hyderabad	PC-2	All	PSC709	1886	1942
20	BPCH 27	Hyderabad	PC-2	All	PSC710	1885	1946
21	KDPC-2	Kashmir	PC-2	All	PSC711	1901	1933
22	DMRHP1402	IIMR-New Delhi	PC-1	All	PSC712	1923	1969
23	VL Pop corn-2	Almora	PC-3	All	PSC713	1918	1943
24	HPC1	HAU	PC-1	All	PSC714	1891	1947
25	VL Pop corn-C	Almora	C	All	PSC715	1904	1940

E.No.	Name	Organization/Center	Trial no.	Zone	DMRCode	R1	R2
SC-I-II-III							
26	ADVSW -1	Advanta	SC-2	All	PSC716	1903	1952
27	ADVSW -2	Advanta	SC-2	All	PSC717	1917	1976
28	ASKH 1	IARI DELHI	SC1	All	PSC718	1916	1966
29	Bajoura Sweet Corn	Bajuara Kullu	SC3	All	PSC719	1902	1951
30	Bisco Madhu	Bisco Bio Science p ltd.	SC3	All	PSC720	1919	1958
31	BSCH 6	Hyderabad	SC1	All	PSC721	1887	1929
32	BSCH 63	Hyderabad	SC1	All	PSC722	1910	1930
33	FSCH 18	Almora	SC3	All	PSC723	1906	1965
34	FSCH 41	Almora	SC2	All	PSC724	1888	1932
35	FSCH 55	Almora	SC1	All	PSC725	1892	1961
36	KSCH-333	Kaveri seeds	SC3	All	PSC726	1913	1939
37	QMHSC-1182	Kolhapur	SC1	All	PSC727	1921	1962
38	SWC 001	Syngenta	SC1	All	PSC728	1894	1948
39	Madhuri-C	ANGRAU	C	All	PSC729	1907	1953
40	WOSC-C	ANGRAU	C	All	PSC730	1900	1963
BC-I-II-III							
41	ASKBH-1	IARI DELHI	BC1	All	PSC731	1884	1960
42	BVM-2	Ranchi	BC1	All	PSC732	1896	1937
43	CMH 11-658	TNAU	BC2	All	PSC733	1922	1967
44	CMH 11-659	TNAU	BC2	All	PSC734	1899	1971
45	NP 5004	Syngenta	BC1	All	PSC735	1889	1950
46	NP 5040	Syngenta	BC1	All	PSC736	1897	1975
47	Vivek Hybrid-27	Almora	BC3	All	PSC737	1883	1974
48	HM4-C	HAU	C	All	PSC738	1881	1955

Zonal trial 102 (Medium Maturity)

Ent. No.	Code	Entry	Entry contributed	Plot No.		
				RI	RII	RIII
1	ZR-201	DMRM1402	DMR MAHAJAN	1	51	87
2	ZR-202	BIO 9637	CHECK	2	58	86
3	ZR-203	KMH12-12	KANGRA	3	30	85
4	ZR-204	KMH12-18	KANGRA	4	57	84
5	ZR-205	LMH 714	BAJAURA	5	55	70
6	ZR-206	LMH 814	BAJAURA	6	56	67
7	ZR-207	LMH 914	BAJAURA	7	54	68
8	ZR-208	KMH12-17	Kangra	8	52	69
9	ZR-209	LMH 1014	BAJAURA	9	53	83
10	ZR-210	LMH 1114	BAJAURA	10	50	82
11	ZR-211	LMH 1214	BAJAURA	11	38	81
12	ZR-212	KMH12-25	Kangra	12	37	66
13	ZR-213	HQPM-1	CHECK	13	36	80
14	ZR-214	VIVEK QPM-9	Check	14	49	79
15	ZR-215	LMH1314	BAJAURA	15	35	74
16	ZR-216	LMH1414	BAJAURA	16	34	75
17	ZR-217	LQPMH514	BAJAURA	17	48	78
18	ZR-218	LMH 1514	BAJAURA	18	33	76
19	ZR-219	LMH 1614	BAJAURA	19	47	77
20	ZR-220	LMH 1714	BAJAURA	20	32	73
21	ZR-221	LMH 1814	BAJAURA	21	46	72
22	ZR-222	LMH 1914	BAJAURA	22	31	71
23	ZR-223	LMH 2014	BAJAURA	23	42	59
24	ZR-224	LMH 2114	BAJAURA	24	40	60
25	ZR-225	LQPMH 614	BAJAURA	25	39	61
26	ZR-226	LMH 2214	BAJAURA	26	41	62
27	ZR-227	UDMH119	Udhampur	27	43	63
28	ZR-228	UDMH120	Udhampur	28	44	64
29	ZR-229	LOCAL CHECK	Local check	29	45	65

Zonal trial 103 (Medium Maturity)

Ent. No.	Code	Entry	Entry contributed	Plot No.		
				RI	RII	RIII
1	101	FH3717	ALM, 13K	1027	1047	1073
2	102	FH3721	ALM, 13K	1012	1032	1064
3	103	FH3723	ALM, 13K	1013	1043	1072
4	104	FH3725	ALM, 13K	1014	1030	1058
5	105	FH3726	ALM, 13K	1008	1046	1068
6	106	FH3731	ALM, 13K	1004	1048	1062
7	107	FH3732	ALM, 13K	1018	1050	1076
8	108	FH3735	ALM, 13K	1016	1051	1075
9	109	FH3743	ALM, 13K	1010	1031	1078
10	110	H56	SRI, 13K	1003	1035	1057
11	111	H57	SRI, 13K	1028	1040	1060
12	112	H64	SRI, 13K	1022	1036	1067
13	113	VivekHybrid9	ALM, 13K	1007	1053	1084
14	114	Vivek hybrid39	ALM, 13K	1019	1029	1083
15	115	EHL 6014	BAJAURA, 13K	1025	1038	1061
16	116	EHL 6114	BAJAURA, 13K	1021	1055	1066
17	117	FH3748	ALM, 13K	1009	1044	1069
18	118	FH3749	ALM, 13K	1020	1034	1080

Ent. No.	Code	Entry	Entry contributed	Plot No.
19	119	FH3750	ALM, 13K	1015 1041 1065
20	120	FH3756	ALM, 13K	1026 1037 1082
21	121	FH3758	ALM, 13K	1005 1045 1079
22	122	FH3733	ALM, 13K	1002 1039 1063
23	123	FH3759	ALM, 13K	1006 1049 1071
24	124	FH3760	ALM, 13K	1001 1056 1059
			IIMR, NEW DELHI,	
25	125	DMRE 1401	13K	1024 1054 1074
26	126	EHL 6214	BAJAURA, 13K	1011 1042 1077
27	127	EHL 6314	BAJAURA, 13K	1023 1052 1081
28	128	EHL 6414	BAJAURA, 13K	1017 1033 1070

Zonal Trial-502 (Medium maturity)

Year : K-2014
 No. of Rows : 2
 No. of Rep. : 3
 Row length : 4 m
 Location : Udaipur, Banswara, Godhra, Ambikapur and Chhindwara.

S. No.	NAME	ORIGIN	Entry Code	R ₁	R ₂	R ₃
1.	EH 2460	Udaipur	ZT-502-1	5215	5242	5271
2.	EH 2480	Udaipur	ZT-502-2	5206	5237	5262
3.	EH 2438	Udaipur	ZT-502-3	5214	5250	5284
4.	EH2499	Udaipur	ZT-502-4	5221	5243	5279
5.	EH 2453	Udaipur	ZT-502-5	5207	5236	5267
6.	EH 2456	Udaipur	ZT-502-6	5220	5259	5285
7.	EH 2462	Udaipur	ZT-502-7	5227	5238	5263
8.	EH 2500	Udaipur	ZT-502-8	5201	5249	5272
9.	EC 3171	Udaipur	ZT-502-9	5225	5235	5286
10.	ECQ 03	Udaipur	ZT-502-10	5213	5251	5264
11.	EH 2575	Udaipur	ZT-502-11	5208	5244	5280
12.	EH 2576	Udaipur	ZT-502-12	5222	5260	5278
13.	EH 2577	Udaipur	ZT-502-13	5202	5258	5283
14.	EH 2578	Udaipur	ZT-502-14	5226	5248	5265
15.	EH 2579	Udaipur	ZT-502-15	5212	5234	5273
16.	EH 2580	Udaipur	ZT-502-16	5209	5252	5268
17.	EH 2581	Udaipur	ZT-502-17	5228	5245	5288
18.	EH 2582	Udaipur	ZT-502-18	5219	5257	5266
19.	PMH 4	check	ZT-502-19	5203	5233	5274
20.	HM 10	Check	ZT-502-20	5224	5253	5282
21.	BIO 9637	check	ZT-502-21	5211	5246	5277
22.	WH 2093	Banaswara	ZT-502-22	5229	5239	5290
23.	WH 2180	Banaswara	ZT-502-23	5218	5254	5269
24.	WH 2094	Banaswara	ZT-502-24	5204	5232	5275
25.	WH 2098	Banaswara	ZT-502-25	5230	5247	5289
26.	WH 2097	Banaswara	ZT-502-26	5210	5255	5287
27.	WH 2099	Banaswara	ZT-502-27	5217	5240	5270
28.	WH 2091	Banaswara	ZT-502-28	5205	5256	5281
29.	WH 2096	Banaswara	ZT-502-29	5223	5231	5261
30.	WH 2095	Banaswara	ZT-502-30	5216	5241	5276

Zonal Trial-503 (Early maturity)

Year : K-2014
 No. of Rows : 2
 No. of Rep. : 3
 Row length : 4 m
 Location : Udaipur, Banswara, Godhra, Ambikapur and Chhindwara.

S. No.	NAME	ORIGIN	Entry Code	R ₁	R ₂	R ₃
1.		Godhra	ZT-503-1	5311	5336	5372
2.	GYH-1103	Godhra	ZT-503-2	5318	5358	5380
3.	GWH-1257	Godhra	ZT-503-3	5306	5337	5362
4.	GYH-0965	Godhra	ZT-503-4	5321	5356	5390
5.	GWH-1005	Godhra	ZT-503-5	5305	5343	5371
6.	GWC-0911	Godhra	ZT-503-6	5325	5349	5379
7.	GWH-1214	Godhra	ZT-503-7	5330	5357	5363
8.	GWC-0301	Godhra	ZT-503-8	5304	5335	5389
9.	GWH-1001	Godhra	ZT-503-9	5312	5355	5370
10.	GWH-QPM-0919	Godhra	ZT-503-10	5320	5342	5378
11.	EH-2429	Udaipur	ZT-503-11	5303	5359	5388
12.	EH-2432	Udaipur	ZT-503-12	5326	5334	5364
13.	EH-2416	Udaipur	ZT-503-13	5313	5354	5387
14.	EH-2417	Udaipur	ZT-503-14	5324	5344	5377
15.	EH-2424	Udaipur	ZT-503-15	5310	5333	5386
16.	EH-2425	Udaipur	ZT-503-16	5328	5353	5365
17.	EH-2583	Udaipur	ZT-503-17	5314	5341	5385
18.	EH-2584	Udaipur	ZT-503-18	5302	5348	5373
19.	EH-2585	Udaipur	ZT-503-19	5329	5352	5376
20.	Pratap QPM-1	Check	ZT-503-20	5327	5340	5366
21.	Vivek Hybrid -21	Check	ZT-503-21	5309	5332	5384
22.	Prakash	Check	ZT-503-22	5315	5347	5369
23.	WH-3074	Banswara	ZT-503-23	5323	5345	5374
24.	WH-3076	Banswara	ZT-503-24	5308	5360	5383
25.	WH-3073	Banswara	ZT-503-25	5322	5339	5367
26.	WH-3069	Banswara	ZT-503-26	5301	5351	5382
27.	WH-3071	Banswara	ZT-503-27	5316	5346	5375
28.	WH-3072	Banswara	ZT-503-28	5319	5331	5361
29.	WH-3070	Banswara	ZT-503-29	5307	5338	5381
30.	WH-3075	Banswara	ZT-503-30	5317	5350	5368

Zonal Trial 501

Year : K-2014
 No. of Rows : 2
 No. of Rep. : 3
 Row length : 4 m
 Location : Udaipur, Banswara, Godhra, Ambikapur and Chhindwara.

S. No.	NAME	ORIGIN	Entry Code	R ₁	R ₂	R ₃
1.	EH-2586	Udaipur	ZT-501-1	5129	5155	5173
2.	EH-2587	Udaipur	ZT-501-2	5116	5145	5176
3.	EH-2588	Udaipur	ZT-501-3	5106	5138	5182
4.	EH-2589	Udaipur	ZT-501-4	5126	5154	5161
5.	EH-2590	Udaipur	ZT-501-5	5128	5144	5190
6.	EH-2591	Udaipur	ZT-501-6	5105	5137	5172
7.	EH-2592	Udaipur	ZT-501-7	5125	5153	5181
8.	EH-2593	Udaipur	ZT-501-8	5115	5143	5177
9.	EH-2594	Udaipur	ZT-501-9	5104	5160	5162
10.	EH-2595	Udaipur	ZT-501-10	5107	5136	5171
11.	EH-2596	Udaipur	ZT-501-11	5124	5152	5174
12.	EH-2371	Udaipur	ZT-501-12	5114	5142	5180
13.	EH-2409	Udaipur	ZT-501-13	5123	5159	5163
14.	EH-2418	Udaipur	ZT-501-14	5103	5135	5183
15.	EH-2398	Udaipur	ZT-501-15	5108	5151	5170
16.	EH-2408	Udaipur	ZT-501-16	5122	5141	5189
17.	EC-3170	Udaipur	ZT-501-17	5117	5158	5164
18.	EC-3172	Udaipur	ZT-501-18	5102	5134	5179
19.	Seed Tech-2324	Check	ZT-501-19	5109	5150	5169
20.	Bio -9681	Check	ZT-501-20	5121	5146	5188
21.	Pratap Makka-4	Check	ZT-501-21	5113	5133	5165
22.	WH-1061	Banswara	ZT-501-22	5118	5157	5187
23.	WH-1060	Banswara	ZT-501-23	5130	5140	5168
24.	WH-1063	Banswara	ZT-501-24	5110	5149	5186
25.	WH-1065	Banswara	ZT-501-25	5101	5132	5166
26.	WH-1064	Banswara	ZT-501-26	5119	5156	5185
27.	WH-1062	Banswara	ZT-501-27	5112	5139	5175
28.	WH-1067	Banswara	ZT-501-28	5127	5147	5184
29.	WH-1066	Banswara	ZT-501-29	5120	5131	5178
30.	WH-2092	Banswara	ZT-501-30	5111	5148	5167

Zonal Trial-ZTQ-01

Year : K-2014
 No. of Rows : 2
 No. of Rep. : 3
 Row length : 4 m
 Location : Udaipur, Banswara, Godhra,

S. No.	NAME	ORIGIN	Entry Code	R ₁	R ₂	R ₃
1.	EHQ-321	Udaipur	ZTQ-01-1	5602	5617	5634
2.	EHQ-322	Udaipur	ZTQ-01-2	5613	5622	5628
3.	EHQ-323	Udaipur	ZTQ-01-3	5605	5620	5639
4.	EHQ-324	Udaipur	ZTQ-01-4	5608	5625	5630
5.	EHQ-325	Udaipur	ZTQ-01-5	5611	5614	5635
6.	EHQ-326	Udaipur	ZTQ-01-6	5604	5624	5633
7.	EHQ-327	Udaipur	ZTQ-01-7	5607	5619	5631
8.	EHQ-328	Udaipur	ZTQ-01-8	5610	5621	5638
9.	ECQ-03	Udaipur	ZTQ-01-9	5601	5616	5629
10.	Vivek QPM-9	Check	ZTQ-01-10	5612	5626	5636
11.	HQPM-1	Check	ZTQ-01-11	5606	5618	5637
12.	Pratap QPM-1	Check	ZTQ-01-12	5609	5623	5627
13.	EHQ-63	Udaipur	ZTQ-01-13	5603	5615	5632

Trial-511

Year : K-2014
 No. of Rows : 2
 No. of Rep. : 3
 Row length : 4 m
 Location : Udaipur, Banswara, Godhra,

S.No.	NAME	ORIGIN	Entry Code	R ₁	R ₂	R ₃
1.	EH-2377	Udaipur	ST-511-1	5519	5536	5567
2.	EH-2381	Udaipur	ST-511-2	5513	5551	5578
3.	EH-2418	Udaipur	ST-511-3	5520	5532	5566
4.	EH-2618	Udaipur	ST-511-4	5507	5558	5583
5.	EH-2619	Udaipur	ST-511-5	5521	5537	5577
6.	EH-2620	Udaipur	ST-511-6	5508	5559	5565
7.	EH-2621	Udaipur	ST-511-7	5527	5542	5584
8.	EH-2622	Udaipur	ST-511-8	5506	5557	5568
9.	EH-2623	Udaipur	ST-511-9	5530	5533	5579
10.	EH-2624	Udaipur	ST-511-10	5509	5556	5564
11.	EH-2625	Udaipur	ST-511-11	5514	5538	5590
12.	EH-2627	Udaipur	ST-511-12	5522	5543	5576
13.	EH-2628	Udaipur	ST-511-13	5501	5555	5569
14.	EH-2629	Udaipur	ST-511-14	5523	5550	5580
15.	EH-2630	Udaipur	ST-511-15	5510	5541	5563
16.	EH-2631	Udaipur	ST-511-16	5529	5534	5575
17.	EH-2689	Udaipur	ST-511-17	5502	5544	5589
18.	EH-2632	Udaipur	ST-511-18	5524	5549	5570
19.	EH-2633	Udaipur	ST-511-19	5515	5554	5588
20.	EH-2634	Udaipur	ST-511-20	5503	5545	5574
21.	EH-2635	Udaipur	ST-511-21	5528	5540	5562
22.	EH-2636	Udaipur	ST-511-22	5516	5531	5581
23.	EH-2637	Udaipur	ST-511-23	5511	5546	5587
24.	EH-2638	Udaipur	ST-511-24	5525	5560	5571
25.	EH-2639	Udaipur	ST-511-25	5504	5548	5586
26.	EH-2640	Udaipur	ST-511-26	5517	5553	5572

S.No.	NAME	ORIGIN	Entry Code	R ₁	R ₂	R ₃
27	EH-2641	Udaipur	ST-511-27	5512	5547	5585
28	Seed Tech-2324	Check	ST-511-28	5526	5539	5561
29	Pratap Makka-3	Check	ST-511-29	5505	5535	5582
30	Pratap Hybrid Maize-3	Check	ST-511-30	5518	5552	5573

Trial - 512

Year	:	K-2014
No. of Rows	:	2
No. of Rep.	:	3
Row length	:	4 m
Location	:	Udaipur, Banswara
Distance	:	60 cm X 15-20 cm ²

S.N.	Name	ORIGIN	Code	R1	R2	R3
1	WH-2110	Banswara	ST-512-1	5704	5756	5770
2	WH-2111	Banswara	ST-512-2	5724	5733	5779
3	WH-1070	Banswara	ST-512-3	5709	5742	5762
4	WH-2106	Banswara	ST-512-4	5729	5738	5780
5	WH-2113	Banswara	ST-512-5	5715	5755	5771
6	WH-2103	Banswara	ST-512-6	5723	5743	5769
7	WH-2108	Banswara	ST-512-7	5710	5732	5786
8	WH-1069	Banswara	ST-512-8	5722	5754	5781
9	EH-2642	Udaipur	ST-512-9	5705	5744	5768
10	EH-2643	Udaipur	ST-512-10	5728	5753	5787
11	EH-2644	Udaipur	ST-512-11	5714	5739	5772
12	EH-2645	Udaipur	ST-512-12	5701	5752	5788
13	BIO-9681	Check	ST-512-13	5721	5734	5767
14	Vivek Hybrid-21	Check	ST-512-14	5711	5757	5782
15	Pratap Hybrid Maize-3	Check	ST-512-15	5727	5745	5789
16	EH-2646	Udaipur	ST-512-16	2706	5760	5761
17	EH-2647	Udaipur	ST-512-17	5720	5751	5783
18	EH-2648	Udaipur	ST-512-18	5713	5735	5773
19	EH-2649	Udaipur	ST-512-19	5726	5758	5777
20	EH-2650	Udaipur	ST-512-20	5708	5746	5763
21	EH-2651	Udaipur	ST-512-21	5719	5750	5774
22	EH-2652	Udaipur	ST-512-22	5716	5736	5764
23	WH-2105	Banswara	ST-512-23	5703	5747	5784
24	WH-2109	Banswara	ST-512-24	5725	5749	5775
25	WH-2112	Banswara	ST-512-25	5712	5741	5790
26	WH-2102	Banswara	ST-512-26	5730	5759	5765
27	WH-2107	Banswara	ST-512-27	5717	5737	5776
28	WH-1068	Banswara	ST-512-28	5707	5748	5785
29	WH-2101	Banswara	ST-512-29	5718	5731	5766
30	WH-2104	Banswara	ST-512-30	5702	5740	5778

Breeding

TABLE NO.	CONTENT	PAGE NO.
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1	PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT KANPUR, KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, BHUBANESHWAR, DHOLI, RANCHI, VARANASI, ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, VAGARAI, AMBIKAPUR, BANSAWARA, CHHINDWARA, GODHRA, JHABUA, UDAIPUR IN IVT TRIAL No. 61 (IVT-L) DURING KHARIF (2014)	BR17
2	PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BAJAURA, BARAPANI, KANGRA, UDHAMPUR, KANPUR, KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, BHUBANESHWAR, DHOLI, RANCHI, VARANASI, ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, VAGARAI, AMBIKAPUR, BANSAWARA, CHHINDWARA, GODHRA, UDAIPUR IN IVT TRIAL No. 62 (IVT-M) DURING KHARIF(2014)	BR77
3	PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT BAJAURA, KANGRA, UDHAMPUR, KANPUR, KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, BHUBANESHWAR, DHOLI, RANCHI, VARANASI, ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, VAGARAI, AMBIKAPUR, BANSWARA, CHHINDWARA, GODHRA, UDAIPUR IN IVT TRIAL No. 63 (IVT-E) DURING KHARIF (2014)	BR140
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6	PERFORMANCE OF LATE MATURITY EXPERIMENTAL HYBRIDS AT BAHRAICH, BHUBANESHWAR, CHHAPRA, DHOLI, KORAPUT, RANCHI, VARANASI IN TRIAL No. 65Z3 DURING KHARIF (2014)	BR186
7	PERFORMANCE OF LATE EXPERIMENTAL HYBRIDS AT ARBHAVI, COIMBATORE, DHARWAD, DHULE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, NASIK, PATANCHERU, VAGARAI, VRDCD IN AVT1 & AVT2 TRIAL No. 6569Z4 (AVT1-L-Z4 & AVT2-L-Z4) DURING KHARIF (2014)	BR191
8	PERFORMANCE OF LATE MATURITY EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSAWARA, BHILODA, DAHOD, GODHRA, JAGDALPUR, JHABUA, KOTA, RAIPUR, UDAIPUR, UJJAIN IN AVT1 TRIAL No. 65Z5 (AVT1-L-Z5) DURING KHARIF(2014)	BR198

9	PERFORMANCE OF MEDIUM MATURITY EXPERIMENTAL HYBRIDS AT BAJAURA, BERTIN, DHAULAKUAN, KANGRA, POONCH, RAJOURI, UDHAMPUR IN AVT1 TRIAL No. 66Z1 (AVT1-M-Z1) DURING KHARIF (2014)	BR205
10	PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT ALIGARH, GURDASPUR, HISAR, JHANSI, KANPUR, KAPURTHALA, KARNAL, LUDHIANA, PANTNAGAR IN AVT1 & AVT2 TRIAL No. 6670Z2 (AVT1-M-Z2 & AVT2-M-Z2) DURING KHARIF (2014)	BR209
11	PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BAHRAICH, BHUBANESHWAR, CHHAPRA, DHOLI, KORAPUT, RANCHI, VARANASI IN AVT1 TRIAL No. 66Z3 (AVT1-M-Z3) DURING KHARIF (2014)	BR215
12	PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT ARBHAVI, COIMBATORE, DHARWAD, DHULE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, NASIK, PATANCHERU, VAGARAI, VRDCD IN AVT1 & 2 TRIAL No. 66Z4 (AVT1-M-Z4) DURING KHARIF(2014)	BR219
13	PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSAWARA, BHILODA, CHHINDWARA, DAHOD, GODHRA, JAGDALPUR, JHABUA, KOTA, RAIPUR, UDAIPUR, UJJAIN IN AVT1 & 2 TRIAL No. 6670Z5(AVT1-M-Z5 &AVT2-M-Z5) DURING KHARIF(2014)	BR224
14	PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, BARAPANI, BERTIN, DHAULAKUAN, KANGRA, POONCH, RAJOURI, UDHAMPUR IN AVT1 & 2 TRIAL No. 6771Z1 (AVT1-E-Z1 & AVT2-E-Z1) DURING KHARIF (2014)	BR231
15	PERFORMANCE OF EXPERIMENTAL HYBRIDS/SINGLE CROSSES/TOP CROSSES & COMPOSITES AT ALIGARH, GURDASPUR, HISAR, JHANSI, KANPUR, KAPURTHALA, KARNAL, LUDHIANA, PANTNAGAR IN TRIAL No. 67Z2 DURING RABI / KHARIF (2014)	BR234
16	PERFORMANCE OF EARLY MATURITY EXPERIMENTAL HYBRIDS AT BAHRAICH, BHUBANESHWAR, CHHAPRA, DHOLI, KORAPUT, RANCHI, VARANASI IN AVT1 TRIAL No. 67Z3 (AVT1-E-Z3) DURING KHARIF (2014)	BR237
17	PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT ARBHAVI, COIMBATORE, DHARWAD, DHULE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, NASIK, PATANCHERU, VAGARAI IN AVT1 & AVT2 TRIAL No. 6771Z4 (AVT1-E-Z4 & AVT2-E-Z4) DURING KHARIF (2014)	BR240
18	PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSAWARA, BHILODA, DAHOD, GODHRA, JAGDALPUR, JHABUA, KOTA, RAIPUR, UDAIPUR, UJJAIN IN AVT1 & 2 TRIAL No. 6771Z5 (AVT1-E-Z5 & AVT2-E-Z5) DURING KHARIF (2014)	BR244
19	PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, BARAPANI, BERTIN, DHAULAKUAN, KANGRA, POONCH, RAJOURI, UDHAMPUR IN AVT1 TRIAL No. 68Z1 (AVT1-EX-Z1) DURING KHARIF (2014)	BR250
20	PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS AT BAHRAICH, BHUBANESHWAR, CHHAPRA, DHOLI, KORAPUT, RANCHI, VARANASI IN AVT1 TRIAL No. 68Z3 (AVT1-EX-Z3) DURING KHARIF (2014)	BR254

21	PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS AT ARBHAVI, COIMBATORE, DHARWAD, DHULE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, NASIK, PATANCHERU, VAGARAI, VRDCD IN AVT1 TRIAL No. 68Z4 (AVT1-EX-Z4) DURING KHARIF (2014)	BR257
22	PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSAWARA, BHILODA, DAHOD, GODHRA, JAGDALPUR, JHABUA, KOTA, RAIPUR, UDAIPUR, UJJAIN IN AVT1 TRIAL No. 68Z5 (AVT1-EX-Z5) DURING KHARIF (2014)	BR261
QPM TRIAL		
23	PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, BHUBNESHWAR, DHOLI, RANCHI, VARANASI, ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, AMBIKAPUR, BANSWARA, GODHARA, UDAIPUR IN TRIAL No. QPM12 DURING KHARIF (2014)	BR265
SPECIALTY CORNS		
24	PERFORMANCE OF SWEETCORN EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, BHUBNESHWAR, DHOLI, RANCHI, VARANASI, ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, AMBIKAPUR, BANSWARA, GODHARA, UDAIPUR IN TRIAL No. SC DURING KHARIF (2014)	BR277
25	PERFORMANCE OF POCORN EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, KARNAL, LUDHIANA, PANTNAGAR, RANCHI, VARANASI, ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, AMBIKAPUR, BANSWARA, GODHARA, UDAIPUR IN TRIAL No. PC DURING KHARIF (2014)	BR288
26	PERFORMANCE OF BABY CORN EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, BHUBNESHWAR, DHOLI, VARANASI, ARBHAVI, COIMBATORE, KARIM NAHAR, HYDERABAD, KOLHAPUR, MANDYA, AMBIKAPUR, BANSWARA, GODHARA, UDAIPUR IN BABYCORN TRIAL No. BC DURING KHARIF (2014)	BR295
ZONAL TRIAL		
27	PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BAJAURA, BARAPANI, KANGRA, SRINAGAR, UDHAMPUR IN ZONAL TRIAL No. ZT102 DURING KHARIF (2014)	BR303
28	PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, BARAPANI, KANGRA, POONCH, SRINAGAR, UDHAMPUR IN ZONAL TRIAL No. ZT103 DURING KHARIF (2014)	BR308
29	PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT BANSWARA, CHHINDWARA, UDAIPUR IN ZONAL TRIAL No. ZT501 DURING KHARIF (2014)	BR314
30	PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BANSWARA, CHHINDWARA, UDAIPUR IN ZONAL TRIAL No. ZT502 DURING KHARIF (2014)	BR318
31	PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT BANSWARA, CHHINDWARA, UDAIPUR IN ZONAL TRIAL No. ZT503	BR322

	DURING KHARIF (2014)	
32	PERFORMANCE OF EXPERIMENTAL HYBRIDS AT BANSWARA, UDAIPUR IN ZONAL TRIAL No. ZT511 DURING KHARIF (2014)	BR326
33	PERFORMANCE OF EXPERIMENTAL HYBRIDS AT UDAIPUR IN ZONAL TRIAL No. ZT512 DURING KHARIF (2014)	BR330
34	PERFORMANCE OF EXPERIMENTAL HYBRIDS AT UDAIPUR IN ZONAL TRIAL No. ZT513 DURING KHARIF (2014)	BR333
35	PERFORMANCE OF EXPERIMENTAL HYBRIDS AT UDAIPUR IN ZONAL TRIAL No. ZT514 DURING KHARIF (2014)	BR336
36	PERFORMANCE OF EXPERIMENTAL HYBRIDS AT BANSWARA, UDAIPUR IN ZONAL TRIAL No. ZTQ01 DURING KHARIF (2014)	BR339
	KHARIF 2013 TRIALS PLANTED IN 2014	
37	PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS OF 2013 KHARIF EXPERIMENT AND PLANTED IN 2014 KHARIF AT SRINAGAR IN IVT TRIAL No. 62 DURING KHARIF (2013)	BR341
38	PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS OF 2013 KHARIF EXPERIMENT AND PLANTED IN 2014 KHARIF AT SRINAGAR IN IVT TRIAL No. 63 DURING KHARIF (2013)	BR347
39	PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS OF 2013 KHARIF EXPERIMENT AND PLANTED IN 2014 KHARIF AT SRINAGAR IN IVT TRIAL No. 64 DURING KHARIF (2013)	BR350
40	PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS OF 2013 KHARIF EXPERIMENT AND PLANTED IN 2014 KHARIF AT SRINAGAR IN AVT1 TRIAL No. 66 DURING KHARIF (2013)	BR352
41	PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS OF 2013 KHARIF EXPERIMENT AND PLANTED IN 2014 KHARIF AT SRINAGAR IN AVT1 TRIAL No. 67 DURING KHARIF (2013)	BR354
42	PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS OF 2013 KHARIF EXPERIMENT AND PLANTED IN 2014 KHARIF AT SRINAGAR IN AVT1 TRIAL No. 68 DURING KHARIF (2013)	BR356

Summary Results -Breeding Kharif 2014

The entire India is divided in five major zones – Zone I, Zone II, Zone III, Zone IV and Zone V, for effective evaluation of the maize breeding materials. The details of maize growing states included in these zones are given below:

Zone(s)	State(s)
Zone I	Jammu and Kashmir, Himachal Pradesh, Uttarakhand (Hill region), North Eastern Hill Regions (Meghalaya, Sikkim, Assam, Tripura, Nagaland, Manipur, Arunachal Pradesh)
Zone II	Punjab, Haryana, Delhi, Uttarakhand (Plain), Uttar Pradesh (Western UP)
Zone III	Bihar, Jharkhand, Odisha, Uttar Pradesh (Eastern UP), West Bengal
Zone IV	Maharashtra, Kamataka, Andhra Pradesh, Telangana, Tamil Nadu
Zone V	Rajasthan, Madhya Pradesh, Chattisgarh, Gujarat

During *Kharif* 2014, 414 maize entries were evaluated in All India coordinated trials, which was the highest figure ever of entries received for AICRP testing. Of 414 genotypes, 297 entries were evaluated in initial varietal trial (IVT), 67 were under advance varietal trial-I (AVT-I), 10 in advance varietal trial-II (AVT-II), 12 entries in quality protein maize (QPM), 13 in sweet corn, 8 in popcorn and 7 in baby corn trials. Total fifteen breeding trials (four each of IVT, AVT-I, specialty corns and three of AVT-II) were constituted for evaluation at 59 locations (29 regular and 30 volunteers) across country. Trials data received from 53 locations were reviewed and analyzed critically for yield and related traits. Total of 20 check varieties belonging to different maturity groups were used in different breeding trials constituted for various maturity groups and types of maize. The test entries were promoted from IVT to AVT-I and AVT-I to AVT-II, based on the 5% superiority (in late maturity, QPM, sweet corn, popcorn and baby corn trials) and 10% superiority (in medium, early and extra early trials) over the best check for grain yield in respective zones. In case of medium, early and extra early maturity, beside yield superiority, days to 50% silking, are also considered as another important criteria. If C.V. value found more than 20% for a trial in any of location of Zone II, III, IV and more than 30% for trial in location of Zone I and V, then the data of those trials were rejected from the final analysis. The details of number of coordinated hybrid and varietal trials conducted under All India Coordinated Maize Improvement Project (AICMIP) during *Kharif* 2014 are given below:

Details of trials allotted to/reported from various test centers

Trial	No. of entries	Checks	Mode of operation
IVT-Late Maturity	115	PMH1, PMH3, Seed Tech 2324, Bio 9681, HM11	Across zones
IVT-Medium Maturity	125	PMH4, Bio 9637, HM9, HM10	Across zones
IVT-Early Maturity	46	Prakash	Across zones
IVT-Extra Early Maturity	11	Vivek Hybrid 21, Vivek Hybrid 43	Across zones
AVT-I –Late Maturity	20	PMH1, PMH3, Seed Tech 2324, Bio 9681, HM11	Zone specific
AVT-I-Medium Maturity	24	PMH4, Bio 9637, HM9, HM10	Zone specific
AVT-I-Early Maturity	20	Prakash	Zone specific
AVT-I-Extra Early Maturity	3	Vivek Hybrid 21, Vivek Hybrid 43	Zone specific
AVT-II-Late Maturity	3	PMH1, PMH3,	Zone specific

Trial	No. of entries	Checks	Mode of operation
		Seed Tech 2324, Bio 9681, HM11	
AVT-II-Medium Maturity	2	PMH4, Bio 9637, HM9, HM10	Zone specific
AVT-II-Early Maturity	5	Prakash	Zone specific
QPM 1-2-3	12	HQPM1, HQPM4, HQPM5, Vivek QPM9	Across zones
Popcorn-1	8	VL Amber Popcorn	Across zones
Sweet Corn-1-2-3	13	Madhuri, WOSC	Across zones
Baby Corn-1	7	HM4	Across zones

Total of 59 locations (29 regulars and 30 volunteer) were identified for evaluation of fifteen different breeding trials. The trial of late maturity were not allotted in zone-I, this is because of no requirement of late maturity genotypes in this zone. The advance varietal trials of various maturities were allotted to the thirty volunteer centers. The detail of trials allotted to/reported from various test centers during *Kharif* 2014 is given below:

S.N	Location		Initial Varietal Trial				Advance Varietal Trial I				Advance Varietal Trial II				Specialty Corns Trials				Trials allotted	Trials reported
	Zone-I	State	L	M	E	EE	L	M	E	EE	L	M	E	EE	QPM	SC	PC	BC	Nos	Nos
1	Almora	UK	*	*	*	*	---	*	*	*	---	---	*	---	*	*	*	*	11	8
2	Bajaura	H.P	---	*	*	*	---	*	*	*	---	---	*	---	*	*	*	*	11	11
3	Srinagar	J&K	---	*	*	*	---	*	*	*	---	---	*	---	---	---	---	---	6	6
4	Udhampur	J&K	---	*	*	*	---	*	*	*	---	---	*	---	---	---	---	---	7	7
5	Kangra	H.P	---	*	*	*	---	*	*	*	---	---	*	---	*	*	*	*	11	10
6	Bertin (H.P)	H.P	---	---	---	---	---	*	*	*	---	---	*	---	---	---	---	---	4	4
7	Dhaulakuan	H.P	---	---	---	---	---	*	*	*	---	---	*	---	---	---	---	---	4	4
8	Barapani	MEG	---	*	*	*	---	*	*	*	---	---	*	---	*	---	---	---	8	6
9	Gossaioogaon	AS	---	*	*	*	---	*	*	*	---	---	*	---	---	---	---	---	7	0
10	Poonch	J&K	---	---	---	---	---	*	*	*	---	---	*	---	---	---	---	---	4	4
11	Rajouri	J&K	---	---	---	---	---	*	*	*	---	---	*	---	---	---	---	---	4	4
	ZONE-II																		77	64
12	Ludhiana	PB	*	*	*	*	*	*	*	---	---	*	---	---	*	*	*	*	12	12
13	Kamal	HR	*	*	*	*	*	*	*	---	---	*	---	---	*	*	*	*	12	12
14	Kanpur	UP	*	*	*	*	*	*	*	---	---	*	---	---	*	*	*	*	12	10
15	Pantnagar	UK	*	*	*	*	*	*	*	---	---	*	---	---	*	*	*	*	12	12
16	Hisar	HR	---	---	---	---	*	*	*	---	---	*	---	---	---	---	---	---	4	4
17	Aligarh	UP	---	---	---	---	*	*	*	---	---	*	---	---	---	---	---	---	4	4
18	Jhansi	UP	---	---	---	---	*	*	*	---	---	*	---	---	---	---	---	---	4	4
19	Gurdaspur	PB	---	---	---	---	*	*	*	---	---	*	---	---	---	---	---	---	4	4
20	Kapurthala	PB	---	---	---	---	*	*	*	---	---	*	---	---	---	---	---	---	4	4
	ZONE-III																		68	66
21	Dholi	BH	*	*	*	*	*	*	*	*	---	---	---	---	*	*	*	*	12	9
22	Ranchi	JKH	*	*	*	*	*	*	*	*	---	---	---	---	*	*	*	*	12	12
23	Bhubaneswer	OD	*	*	*	*	*	*	*	*	---	---	---	---	*	*	*	*	12	11

S.N	Location		Initial Varietal Trial				Advance Varietal Trial I				Advance Varietal Trial II				Specialty Corns Trials				Trials allotted	Trials reported
	Zone-I	State	L	M	E	EE	L	M	E	EE	L	M	E	EE	QPM	SC	PC	BC	Nos	Nos
24	Varanasi	UP	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12	11
25	Bahraich	UP	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12	12
26	Medinapur	WB	---	---	---	---	*	*	*	*	---	---	---	---	---	---	---	---	4	0
27	Campus of BHU	UP	---	---	---	---	*	*	*	*	---	---	---	---	---	---	---	---	4	0
28	Koraput	OD	---	---	---	---	*	*	*	*	---	---	---	---	---	---	---	---	4	4
29	RRS Madhopur	BH	---	---	---	---	*	*	*	*	---	---	---	---	---	---	---	---	4	0
30	Chhapra	BH	---	---	---	---	*	*	*	*	---	---	---	---	---	---	---	---	4	4
	ZONE-IV																	Total in Z-III	80	63
31	Hyderabad	AP	*	*	*	*	*	*	*	*	*	---	*	---	*	*	*	*	14	14
32	Shegal Foundation	AP	---	---	---	---	*	*	*	*	*	---	*	---	---	---	---	---	6	6
33	Karimnagar	AP	*	*	*	*	*	*	*	*	*	---	*	---	*	*	*	*	14	14
34	VRDC KSSC-Dharwad	KR	---	---	---	---	*	*	*	*	*	---	*	---	---	---	---	---	6	4
35	Dharwad	KR	---	---	---	---	*	*	*	*	*	---	*	---	---	---	---	---	6	6
36	Kolhapur	MH	*	*	*	*	*	*	*	*	*	---	*	---	*	*	*	*	14	14
37	Arbhavi	KR	*	*	*	*	*	*	*	*	*	---	*	---	*	*	*	*	14	14
38	Mandya	KR	*	*	*	*	*	*	*	*	*	---	*	---	*	*	*	*	14	14
39	Vagarai	TN	*	*	*	*	*	*	*	*	*	---	*	---	---	---	---	---	10	10
40	Coimbatore	TN	*	*	*	*	*	*	*	*	*	---	*	---	*	*	*	*	14	14
41	ARS Devihosur	KR	---	---	---	---	*	*	*	*	*	---	*	---	---	---	---	---	6	0
42	Almel	KR	---	---	---	---	*	*	*	*	*	---	*	---	---	---	---	---	6	0
43	ARS Belavatagi	KR	---	---	---	---	*	*	*	*	*	---	*	---	---	---	---	---	6	0
44	Dhule	MH	---	---	---	---	*	*	*	*	*	---	*	---	---	---	---	---	6	6
45	Parbhani	MH	---	---	---	---	*	*	*	*	*	---	*	---	---	---	---	---	6	0
46	Niphad, Nasik	MH	---	---	---	---	*	*	*	*	*	---	*	---	---	---	---	---	6	6
	ZONE-V																	Total in Z-IV	148	122
47	Udaipur	RJ	*	*	*	*	*	*	*	*	---	*	*	---	*	*	*	*	14	14
48	Banswara	RJ	*	*	*	*	*	*	*	*	---	*	*	---	*	*	*	*	14	14
49	Chindwara	MP	*	*	*	*	*	*	*	*	---	*	*	---	*	*	*	*	14	6
50	Ambikapur	CHG	*	*	*	*	*	*	*	*	---	*	*	---	*	*	*	*	14	14
51	Godhara	GUJ	*	*	*	*	*	*	*	*	---	*	*	---	*	*	*	*	14	14
52	Jabhua	MP	*	*	*	*	*	*	*	*	---	*	*	---	---	---	---	---	10	10
53	Bhiloda	GUJ	---	---	---	---	*	*	*	*	---	*	*	---	---	---	---	---	6	6
54	AAR Dahod	GUJ	---	---	---	---	*	*	*	*	---	*	*	---	---	---	---	---	6	6
55	Raipur	CHG	---	---	---	---	*	*	*	*	---	*	*	---	---	---	---	---	6	6
56	Jagadapur	CHG	---	---	---	---	*	*	*	*	---	*	*	---	---	---	---	---	6	6
57	RARS Ujjain	MP	---	---	---	---	*	*	*	*	---	*	*	---	---	---	---	---	6	6
58	ZARS, Indore	MP	---	---	---	---	*	*	*	*	---	*	*	---	---	---	---	---	6	0
59	ARS, Kota	RJ	---	---	---	---	*	*	*	*	---	*	*	---	---	---	---	---	6	6

Important Note: 1. AVT-I and II Trials has been clubbed according to their maturity groups

2. * represents the trial allotted whereas --- represents trial not allotted

3. L, M, E, EE, designated here for the Late, Medium, Early and Extra early, whereas

QPM, PC, SC, BC represented for Quality protein maize, Popcorn, Sweet corn and Baby corn trials

Different breeding trials were organized at 10 test locations in Zone-I, 4 in Zone-II, 5 in Zone III 10 in Zone IV and 7 test locations in Zone-V. All the normal maize entries were tested under four maturity group viz., late, medium, early and extra early. State-wise/zone wise positions for successful conduct of trials are given below:

Zone(s)	State(s)	Trials allotted (No.)	Trials Reported (No.)	Percent success
Zone I	Jammu and Kashmir, Himachal Pradesh, Uttarakhand, North Eastern Hill Regions (Meghalaya, Sikkim, Assam, Tripura, Nagaland, Manipur, Arunachal Pradesh)	77	64	83.1
Zone II	Uttarakhand, Punjab, Haryana, Delhi, Uttar Pradesh	68	66	97.1
Zone III	Bihar, Jharkhand, Odisha, Uttar Pradesh, West Bengal	80	63	78.8
Zone IV	Maharashtra, Kamataka, Andhra Pradesh, Tamil Nadu	148	122	82.4
Zone V	Rajasthan, Madhya Pradesh, Chattisgarh, Gujarat	122	108	88.5

List of entries completed various years of their testing / Key to maize hybrids (Kharif 2014)

S. No.	Entries Name	Code	Origin
Entries completed three years of testing in Late maturity			
ZONE-IV			
1	LTH-22	DMR 415	Yagaanti Seeds Pvt Lt.
2	NMH-1265	DMR 416	Nuziveedu Seeds Pvt Lt.
3	Geo Premium Diamond	DMR 417	Geo Biotech Seeds Pvt Lt.
Entries completed three years of testing in Medium maturity			
ZONE-II			
1	DKC 9145 (IJ8533)	DMR 499	Monsanto India Ltd.
2	Rasi-3033	DMR 500	Rasi Seed Pvt Ltd.
ZONE-V			
1	DKC 9145 (IJ8533)	DMR 557	Monsanto India Ltd.
Entries completed three years of testing in Early maturity			
ZONE-I			
1	EH-2212	DMR 580	RCA MPUAT Udaipur Center-313001
2	FH 3605	DMR 581	VPKAS, Almora
3	FH 3626	DMR 582	VPKAS, Almora
ZONE-IV			
1	FH 3605	DMR 619	VPKAS, Almora
2	KMH-7021	DMR 620	Kaveri Seed Company Ltd.
ZONE-V			

BR5

S. No.	Entries Name	Code	Origin
	CMH10-531	DMR 646	TNAU Coimbatore-641003
Entries completed two years of testing in Late maturity			
ZONE-II			
1	VNR 31834	DMR 451	VNR Seeds pvt.Ltd.
2	X35D601	DMR 452	PHI Seeds Pvt.Ltd.
ZONE-III			
1	DKC 9133(IM9133)	DMR 461	Monsanto India Ltd.
2	DKC 9141 (IM8539)	DMR 462	Monsanto India Ltd.
3	HTMH 5108	DMR 463	Hytech Seeds India Pvt. Ltd.
4	HTMH 5202	DMR 464	Hytech Seeds India Pvt. Ltd.
5	HTMH 5404	DMR 465	Hytech Seeds India Pvt. Ltd.
6	KMH-2811	DMR 466	Kaveri Seed Company Ltd.
7	RMH-972	DMR 467	Rasi seeds pvt. Ltd.
8	SUPER GA-105	DMR 468	Godrej Seeds & genetics Ltd.
9	VNR 31355	DMR 469	VNR Seeds pvt.Ltd.
10	VNR 31834	DMR 470	VNR Seeds pvt.Ltd.
11	Siri 4527	DMR 471	Siri Seeds pvt.Ltd.
12	JH 12247	DMR 472	PAU, Ludhiana
13	Bio 032 (BB032)	DMR 473	Bio Seeds pvt.Ltd.
ZONE-IV			
1	DKC 9141 (IM8539)	DMR 410	Momsanto India Ltd.
2	HTMH 5108	DMR 411	Hytech Seeds India Pvt. Ltd.
3	IM 8562	DMR 412	Momsanto India Ltd.
4	RMH-972	DMR 413	Rasi seeds pvt. Ltd.
5	X35D601	DMR 414	PHI Seeds Pvt.Ltd.
ZONE-V			
1	CP.999	DMR 431	Charoenpokphand Seeds Pvt Ltd.,Bangalore
2	DAS-MH-105	DMR 432	Dow Agro Sciences India Pvt. Ltd.
3	DKC 9133(IM9133)	DMR 433	Momsanto India Ltd.
4	DKC 9141 (IM8539)	DMR 434	Momsanto India Ltd.
5	HTMH 5202	DMR 435	Hytech Seeds India Pvt. Ltd.
6	IM 8556	DMR 436	Momsanto India Ltd.
7	JANA HIT	DMR 437	Godrej seeds gentics
8	PRO-392	DMR 438	Rasi seeds pvt. Ltd.
9	SUPER GA-105	DMR 439	Godrej Seeds & gentics Ltd.
10	X35D601	DMR 440	PHI Seeds Pvt.Ltd.
11	Siri 4527	DMR 441	Siri Seeds pvt.Ltd.
Entries completed two years of testing in Medium maturity			
ZONE-I			
1	LG 32.82	DMR 481	Bisco Bio Science Pvt. Ltd.
ZONE-II			
1	AQH 4	DMR 491	IARI New Delhi
2	CMH 10-547	DMR 492	TNAU Coimbatore-641003

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S. No.	Entries Name	Code	Origin
3	DKC 9144 (IM8478)	DMR 493	Monsanto India Ltd.
4	DKC 9149 (IM8581)	DMR 494	Monsanto India Ltd.
5	FCH 11231	DMR 495	Foliage Crop Solutions Pvt.Ltd.
6	JKMH 4545	DMR 496	JK Agri Genetics Ltd.
7	S-6750	DMR 497	Syngenta India Ltd.
8	TH-38	DMR 498	Yaaganti Seeds Ltd.
ZONE-III			
1	AQH 9	DMR 511	IARI New Delhi
2	CMH 11-582	DMR 512	TNAU Coimbatore-641003
3	DKC 8144 (IM 8479)	DMR 513	Monsanto India Ltd.
4	DKC 9144 (IM8478)	DMR 514	Monsanto India Ltd.
5	Kuber shakthi	DMR 515	Shakthi Seeds Pvt. Ltd.
6	S-6750	DMR 516	Syngenta India Ltd.
ZONE-IV			
1	AQH 8	DMR 521	IARI New Delhi
2	DKC 9144 (IM8478)	DMR 522	Monsanto India Ltd.
3	HTMH 5402	DMR 523	Hytech Seeds India Pvt. Ltd.
4	JKMH 4545	DMR 524	JK Agri Genetics Ltd.
5	LG 32.82	DMR 525	Bisco Bio Science Pvt. Ltd.
6	FCH 11231	DMR 526	Foliage Crop Solutions Pvt.Ltd.
ZONE-V			
1	BH 41150	DMR 541	ANGARAU, MRC Rajendranagar,Hyderabad
2	CMH 10-547	DMR 542	TNAU Coimbatore-641003
3	CMH 11-617	DMR 543	TNAU Coimbatore-641003
4	DKC 8144 (IM 8479)	DMR 544	Monsanto India Ltd.
5	DKC 9144 (IM8478)	DMR 545	Monsanto India Ltd.
6	DKC 9149 (IM8581)	DMR 546	Monsanto India Ltd.
7	EH-2205	DMR 547	RCA MPUAT Udaipur Center-313001
8	EH-2240	DMR 548	RCA MPUAT Udaipur Center-313001
9	EHL 3412	DMR 549	CSK HPKV,Bajaura
10	HTMH 5402	DMR 550	Hytech Seeds India Pvt. Ltd.
11	JKMH 4545	DMR 551	JK Agri Genetics Ltd.
12	KMH-5951	DMR 552	Kaveri Seed Company Ltd.
13	LG 32.82	DMR 553	Bisco Bio Science Pvt. Ltd.
14	PRMH-2177	DMR 554	Pravardhan Seeds Pvt. Ltd.
15	KDMH 2705	DMR 555	Krishidhan SeedS Pvt. Ltd.
16	KNMH 4010131	DMR 556	ARS,Krimnagar
Entries completed two years of testing in Early maturity			
ZONE-I			
1	AH 1261	DMR 571	IARI New Delhi
2	DMH-63	DMR 572	Metahelix Life Sciences Ltd.
3	FH 3664	DMR 573	VPKAS,Almora
4	FH 3669	DMR 574	VPKAS,Almora

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S. No.	Entries Name	Code	Origin
5	JH-31610	DMR 575	PAU, Ludhiana
6	LG 31.81	DMR 576	Bisco Bio Science Pvt. Ltd.
7	MEH 1-12-13	DMR 577	T.C.A.Dholi
8	Bio 9720	DMR 578	Bio Seeds pvt.Ltd.
9	GWH 0712	DMR 579	ACRIP, AAU Godhra
ZONE-II			
1	CMH 11-579	DMR 591	TNAU Coimbatore-641003
2	CMH 11-595	DMR 592	TNAU Coimbatore-641003
3	CMH 11-611	DMR 593	TNAU Coimbatore-641003
4	CMH 11-626	DMR 594	TNAU Coimbatore-641003
5	CMH 11-629	DMR 595	TNAU Coimbatore-641003
ZONE-III			
1	B-52	DMR 601	Kanchan Ganga Seeds Company Pvt Ltd.
2	CMH 11-579	DMR 602	TNAU Coimbatore-641003
3	CMH 11-626	DMR 603	TNAU Coimbatore-641003
4	CMH 11-629	DMR 604	TNAU Coimbatore-641003
ZONE-IV			
1	AH 1261	DMR 611	IARI New Delhi
2	B-52	DMR 612	Kanchan Ganga Seeds Company Pvt Ltd.
3	EH-2214	DMR 613	RCA Udaipur Center
4	FH 3664	DMR 614	VPKAS,Almora
5	FH 3669	DMR 615	VPKAS,Almora
6	NMH-1258	DMR 616	Nuzeevidu Seeds Pvt Ltd.
7	LG 31.81	DMR 617	Bisco Bio Sciences Pvt Ltd.
8	HKH341	DMR 618	HAU Karnal
ZONE-V			
1	B-52	DMR 631	Kanchan Ganga Seeds Company Pvt Ltd.
2	CMH 11-579	DMR 632	TNAU Coimbatore-641003
3	CMH 11-595	DMR 633	TNAU Coimbatore-641003
4	CMH 11-611	DMR 634	TNAU Coimbatore-641003
5	CMH 11-626	DMR 635	TNAU Coimbatore-641003
6	CMH 11-629	DMR 636	TNAU Coimbatore-641003
7	DMH-63	DMR 637	Metahelix Life Sciences Ltd.
8	EH-2214	DMR 638	RCA Udaipur Center
9	EH-2233	DMR 639	RCA Udaipur Center
10	FH 3664	DMR 640	VPKAS,Almora
11	FH 3669	DMR 641	VPKAS,Almora
12	JH-31613	DMR 642	PAU, Ludhiana
13	NMH-1258	DMR 643	Nuzeevidu Seeds Pvt Ltd.
14	MEH 1-12-13	DMR 644	T.C.A.Dholi
15	Bio 9720	DMR 645	Bio Seeds pvt.Ltd.
Entries completed two years of testing in Extra Early maturity			
ZONE-I			

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S. No.	Entries Name	Code	Origin
1	APQH 9	DMR 651	IARI New Delhi
ZONE-III			
1	AH-1212	DMR 661	IARI New Delhi
ZONE-IV			
1	APQH 9	DMR 671	IARI New Delhi
2	KH-7502	DMR 672	Kanchan Ganga Seeds Company Pvt Ltd.
ZONE-V			
1	AH-1212	DMR 681	IARI New Delhi
2	KH-7502	DMR 682	Kanchan Ganga Seeds Company Pvt Ltd.
Entries completed one years of testing in Late maturity			
1	GPS -03	DMR 51	GPS BIOTECH Pvt Ltd.
2	DMRH1416	DMR 52	IIMR-New Delhi
3	HT 51412607	DMR 53	Hytech Seeds India Pvt. Ltd.
4	GPS -02	DMR 54	GPS BIOTECH Pvt Ltd.
5	SYN417750	DMR 55	Syngenta India Ltd.
6	DMRH1415	DMR 56	IIMR-New Delhi
7	GH-110204	DMR 57	ARS Arabhavi
8	KH-1408	DMR 58	Kanchan Ganga Seeds Company Pvt Ltd.
9	NMH-1247	DMR 59	Nuzeevidu Seeds Pvt Ltd.
10	HKH422	DMR 60	HAU-Hissar
11	VEH 14-1	DMR 61	B.H.U.Varanasi
12	PM 14102L	DMR 62	Phi Seeds Ltd.
13	Gin 01	DMR 63	Noongwoo Seeds India Pvt Ltd
14	JH 13023	DMR 64	PAU-Ludhiana
15	115-08-01	DMR 65	Kanchan Ganga Seeds Company Pvt Ltd.
16	KF-110	DMR 66	Bhartiya Beej Nigam Ltd.
17	PM 14106L	DMR 67	Phi Seeds Ltd.
18	PM 14105L	DMR 68	Phi Seeds Ltd.
19	Bio-069	DMR 69	Bio seeds Pvt Ltd.
20	PMSY -3	DMR 70	SKUAST, Jamuu
21	NT 8441	DMR 71	Syngenta India Ltd.
22	Proline-2404	DMR 72	proline seed Ltd.
23	siri -4555	DMR 73	siri seeds Ltd.
24	JKMH 4242	DMR 74	JK Agri Genetics Ltd.
25	GOLD 1166	DMR 75	GREEN GOLD SEEDS Ltd.
26	VNR 4325	DMR 76	VNR Seeds pvt.Ltd.
27	CMH12-671	DMR 77	TNAU-Coimbatore
28	HT 51412616	DMR 78	Hytech Seeds India Pvt. Ltd.
29	CMH10-555	DMR 79	TNAU-Coimbatore
30	CMH12-663	DMR 80	TNAU-Coimbatore
31	DKC9125	DMR 81	Monsanto India Limed
32	KMH-3981	DMR 82	Kaveri Seed Company Ltd.
33	DMH-192	DMR 83	Metahelix Life Sciences Ltd.

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S. No.	Entries Name	Code	Origin
34	DMRH1413	DMR 84	IIMR-New Delhi
35	K-25 Gold	DMR 85	Kanchan Ganga Seeds Company Pvt Ltd.
36	IN 8569	DMR 86	Monsanto India Limed
37	GK-3118	DMR 87	Ganga Kavari Seed PvtLtd.
38	DMRH1409	DMR 88	IIMR-New Delhi
39	VNR 31862	DMR 89	VNR Seeds pvt.Ltd.
40	MAH-957	DMR 90	UASB,Mandya
41	DMH-7721	DMR 91	Metahelix Life Sciences Ltd.
42	NT 8711	DMR 92	Syngenta India Ltd.
43	JH 13249	DMR 93	PAU-Ludhiana
44	SAMH-225	DMR 94	Super Agro seedsp pvt.ltd.
45	JH 13041	DMR 95	PAU-Ludhiana
46	JH 12063	DMR 96	PAU-Ludhiana
47	JH 13094	DMR 97	PAU-Ludhiana
48	RMH-726	DMR 98	Rasi seeds pvt. Ltd.
49	JH 13044	DMR 99	PAU-Ludhiana
50	PMSW 4	DMR 100	SKUAST Jammu
51	PM 14104L	DMR 101	Phi Seeds Ltd.
52	CP.555	DMR 102	Charoenpokphand Seeds Pvt Ltd.,Bangalore
53	JH 13183	DMR 103	PAU-Ludhiana
54	DMRH1411	DMR 104	IIMR-New Delhi
55	JH 12150	DMR 105	PAU-Ludhiana
56	Gin 02	DMR 106	Noongwoo Seeds India Pvt Ltd
57	BH 412140	DMR 107	ANGARAU-Hyderabad
58	NT 6325	DMR 108	Syngenta India Ltd.
59	DMRH1308	DMR 109	IIMR-New Delhi
60	ADV 1190384	DMR 110	Advanta limited.
61	HT 51412373	DMR 111	Hytech Seeds India Pvt. Ltd.
62	SAFAL X-2	DMR 112	SAFAL SEEDS COMPANY Pvt. Ltd.
63	JH 13197	DMR 113	PAU-Ludhiana
64	super 6768	DMR 114	SUPER SEEDS Pvt. Ltd.
65	JH 13278	DMR 115	PAU-Ludhiana
66	IN 8570	DMR 116	Monsanto India Limed
67	GPMH-1111	DMR 117	ARS Arabhavi
68	JH 13248	DMR 118	PAU-Ludhiana
69	SAMH-378	DMR 119	Super Agro seedsp pvt.ltd.
70	KH-2192	DMR 120	Kanchan Ganga Seeds Company Pvt Ltd.
71	ADV 0990293	DMR 121	Advanta limited.
72	JH 13252	DMR 122	PAU-Ludhiana
73	NMH 1605	DMR 123	Nath Bio- Genes (I) Ltd.
74	GPMH-1101	DMR 124	ARS Arabhavi
75	PM 14101L	DMR 125	Phi Seeds Ltd.
76	CMH12-667	DMR 126	TNAU-Coimbatore

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S. No.	Entries Name	Code	Origin
77	BH 412141	DMR 127	ANGARAU-Hyderabad
78	Srikar 3033	DMR 128	ANGARAU-Hyderabad
79	JH 13282	DMR 129	PAU-Ludhiana
80	IN 8903	DMR 130	Monsanto India Limed
81	GYH-0652	DMR 131	ACRIP, AAU Godhara
82	NMH 1008	DMR 132	Nath Bio- Genes (I) Ltd.
83	GK-3124	DMR 133	Ganga Kavari Seed PvtLtd.
84	ADV 0990296	DMR 134	Advanta limited.
85	CMH11-618	DMR 135	TNAU-Coimbatore
86	REH2013-5	DMR 136	CSAUA&T,Kanpur-208002
87	DAS-MH-106	DMR 137	Dow Agro Science
88	JH 13244	DMR 138	PAU-Ludhiana
89	AMH-3436	DMR 139	Ajeet seeds ltd.
90	IN 8603	DMR 140	Monsanto India Limed
91	JH 13230	DMR 141	PAU-Ludhiana
92	DAS-MH-107	DMR 142	Dow Agro Science
93	IAHM 2013-12	DMR 143	RMDCA, & RS,Ambikapur 497001
94	JH 12010	DMR 144	PAU-Ludhiana
95	BH 412131	DMR 145	ANGARAU-Hyderabad
96	Super 1177	DMR 146	SUPER SEEDS
97	Super 777	DMR 147	SUPER SEEDS
98	GH-110145	DMR 148	ARS Arabhavi
99	JH 13045	DMR 149	PAU-Ludhiana
100	JH 13037	DMR 150	PAU-Ludhiana
101	MAH-974	DMR 151	UASB,Mandya
102	BH 412096	DMR 152	ANGARAU-Hyderabad
103	PRMH-189	DMR 153	Pravardhan Seeds pvt.ltd.
104	IN 8902	DMR 154	Monsanto India Limed
105	IN 8602	DMR 155	Monsanto India Limed
106	REH2013-6	DMR 156	CSAUA&T,Kanpur-208002
107	JH 13270	DMR 157	PAU-Ludhiana
108	BH 412095	DMR 158	ANGARAU-Hyderabad
109	HKH423	DMR 159	HAU-Hissar
110	Sonam -27	DMR 160	SONAM SEED
111	REH2013-2	DMR 161	CSAUA&T,Kanpur-208002
112	JKMH 4023	DMR 162	JK SEEDS
113	AH 7005	DMR 163	IARI New Delhi
114	CSM-1	DMR 164	IARI New Delhi
115	CSM-2	DMR 165	IARI New Delhi
Entries completed one years of testing in Medium maturity			
1	IASH 11C022	DMR 201	Indo American
2	CP.201	DMR 202	Charoenpokphand Seeds Pvt Ltd.,Bangalore
3	Srikar 4689	DMR 203	Eldorado Agritech pvt. Ltd.

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S. No.	Entries Name	Code	Origin
4	DMRM1402	DMR 204	IIMR-New Delhi
5	JH 13142	DMR 205	PAU-Ludhiana
6	HKH342	DMR 206	HAU-Hissar
7	PMH 2277	DMR 207	Prabhat Agri-Biotech Ltd
8	DMRH1418	DMR 208	IIMR-New Delhi
9	HT 51412182	DMR 209	Hytech Seeds
10	JH 31607	DMR 210	PAU-Ludhiana
11	DH1413	DMR 211	IIMR-New Delhi
12	IAHM 2013-26	DMR 212	RMDCA, & RS,Ambikapur 497001
13	DAS-MH-307	DMR 213	Dow Agro Science Pvt ltd.
14	MMH 4-13	DMR 214	T.C.A Dholi
15	NMH-3662	DMR 215	Nirmal seed Pvt ltd.
16	JH 13117	DMR 216	PAU-Ludhiana
17	DH1401	DMR 217	IIMR-New Delhi
18	DAS-MH-306	DMR 218	Dow Agro Science Pvt ltd.
19	BH 412084	DMR 219	ANGARAU-Hyderabad
20	DH1405	DMR 220	IIMR-New Delhi
21	EH-2235	DMR 221	RCA Udaipur Center
22	EH-2372	DMR 222	RCA Udaipur Center
23	CMH11-615	DMR 223	TNAU-Coimbatore
24	TMMH 801	DMR 224	Tri Murti Seeds
25	Bio 719	DMR 225	Bio seeds
26	UDMH-115	DMR 226	SKUAST & Jammu
27	IAHM 2013-33	DMR 227	RMDCA, & RS,Ambikapur 497001
28	JH 13246	DMR 228	PAU-Ludhiana
29	CMH11-586	DMR 229	TNAU-Coimbatore 641003
30	HT 51412373	DMR 230	Hytech Seeds India Pvt. Ltd.
31	QMH-1025	DMR 231	AICRP,MRS,Kolhapur-12
32	BH 412066	DMR 232	ANGARAU-Hyderabad
33	BH 412120	DMR 233	ANGARAU-Hyderabad
34	MMH 3-13	DMR 234	T.C.A Dholi
35	CMH11-584	DMR 235	TNAU-Coimbatore 641003
36	BH 412063	DMR 236	ANGARAU-Hyderabad
37	KDMH 100-3	DMR 237	UAS,Dharwad
38	TI 8261	DMR 238	Monsanto India Limed
39	CMH11-593	DMR 239	TNAU-Coimbatore 641003
40	CMH12-665	DMR 240	TNAU-Coimbatore 641003
41	KH-545	DMR 241	Kanchan Ganga Seeds Company Pvt Ltd.
42	QMH-1034	DMR 242	AICRP,MRS,Kolhapur-12
43	LMH 114	DMR 243	CSK HPKV,Bajura
44	BH 412044	DMR 244	ANGARAU-Hyderabad
45	KMH12-25	DMR 245	SAR&EC,Kangra
46	UDMH-101	DMR 246	SKUAST & Jammu

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S. No.	Entries Name	Code	Origin
47	KH-517 Gold	DMR 247	Kanchan Ganga Seeds Company Pvt Ltd.
48	HT 51412616	DMR 248	Hytech Seeds India Pvt. Ltd.
49	JH 13054	DMR 249	PAU-Ludhiana
50	AWLH 1	DMR 250	IARI New Delhi
51	DMRH1413	DMR 251	IIMR-New Delhi
52	JH 13139	DMR 252	PAU-Ludhiana
53	EH-2380	DMR 253	RCA Udaipur Center
54	JH 13224	DMR 254	PAU-Ludhiana
55	JH 13121	DMR 255	PAU-Ludhiana
56	JH 13204	DMR 256	PAU-Ludhiana
57	BH 412064	DMR 257	ANGARAU-Hyderabad
58	JH 13215	DMR 258	PAU-Ludhiana
59	MMH 6-13	DMR 259	T.C.A Dholi
60	PM 14107M	DMR 260	PHI Seeds Pvt.Ltd.
61	IAHM 2013-11	DMR 261	RMDCA, & RS,Ambikapur 497001
62	SHIATS MS2	DMR 262	Allahabad
63	DMRH1301	DMR 263	IIMR-New Delhi
64	JH 13172	DMR 264	PAU-Ludhiana
65	BH 412065	DMR 265	ANGARAU-Hyderabad
66	Zuari Nandiri	DMR 266	Zuari Seeds
67	AWLH 2	DMR 267	IARI New Delhi
68	IAHM 2013-97	DMR 268	RMDCA, & RS,Ambikapur 497001
69	LMH 314	DMR 269	CSK HPKV,Bajura
70	JH 13119	DMR 270	PAU-Ludhiana
71	HKH343	DMR 271	HAU-Hissar
72	MMH 2-13	DMR 272	T.C.A Dholi
73	JH 13226	DMR 273	PAU-Ludhiana
74	MMH 5-13	DMR 274	T.C.A Dholi
75	NMH-3612	DMR 275	NIRMAL SEEDS PVT.LTD.
76	HT 51412081	DMR 276	Hytech Seeds India Pvt. Ltd.
77	GPS 05	DMR 277	GPS BIOTECH COMPANY
78	KF-105	DMR 278	Bhartiya Beej Nigam Ltd.
79	IAHM 2013-9	DMR 279	RMDCA, & RS,Ambikapur 497001
80	DMRH1417	DMR 280	IIMR-New Delhi
81	HKH344	DMR 282	HAU-Hissar
82	DH1415	DMR 283	IIMR-New Delhi
83	DMRH1302	DMR 284	IIMR-New Delhi
84	GK-3120	DMR 285	GANGA KAVERI SEEDS
85	KMH-4811	DMR 286	Kaveri seeds
86	GPS 01	DMR 287	GPS BIOTECH COMPANY
87	CMH11-619	DMR 288	TNAU-Coimbatore
88	KDMH 100-8	DMR 289	UAS, Dharwad
89	BL 900	DMR 290	Bisco Bio Science p ltd.

S. No.	Entries Name	Code	Origin
90	UDMH-114	DMR 291	SKUAST & Jammu
91	AH-1323	DMR 292	IIMR-New Delhi
92	VEH 14-2	DMR 293	B.H.U.Varanasi
93	JH 13164	DMR 294	PAU-Ludhiana
94	PM 14108M	DMR 295	PHI Seeds Pvt.Ltd.
95	DMRH1410	DMR 296	IIMR-New Delhi
96	TMMH 826	DMR 297	Tri Murti Seeds
97	IN 8401	DMR 298	Monsanto India Limed
98	HT 51412607	DMR 299	Hytech Seeds India Pvt. Ltd.
99	JKMH 4848	DMR 300	JK Agri Genetics Ltd.
100	DH1411	DMR 301	IIMR-New Delhi
101	SMH-3901	DMR 302	Shakthi seeds pvt. Ltd.
102	LMH 414	DMR 303	CSK HPKV,Bajura
103	REH2013-1	DMR 304	CSAUA&T,Kanpur-208002
104	DMRH1416	DMR 305	IIMR-New Delhi
105	JH 13122	DMR 306	PAU-Ludhiana
106	ZMH-999	DMR 307	Zuari Seeds
107	REH2013-3	DMR 308	CSAUA&T,Kanpur-208002
108	JH 13114	DMR 309	PAU-Ludhiana
109	BH 412067	DMR 310	ANGARAU-Hyderabad
110	JH 31605	DMR 311	PAU-Ludhiana
111	PM 14106M	DMR 312	PHI Seeds Pvt.Ltd.
112	DH1403	DMR 313	IIMR-New Delhi
113	DMRH1412	DMR 314	IIMR-New Delhi
114	DMRH1308	DMR 315	IIMR-New Delhi
115	LMH 214	DMR 316	CSK HPKV,Bajura
116	Proline 786	DMR 317	Proline seed p ltd.
117	BL 897	DMR 318	Bisco Bio Science p ltd.
118	REH2013-4	DMR 319	CSAUA&T,Kanpur
119	DMRH- 12-110	DMR 320	IIMR-New Delhi
120	QMH-1015	DMR 321	AICRP,MRS,Kolhapur-12
121	DH1429	DMR 322	IIMR-New Delhi
122	EH-2381	DMR 323	RCA Udaipur Center
123	AH-1322	DMR 324	IARI New Delhi
124	BH 412062	DMR 325	ANGRAU, MRC Rajendranagar , Hyderabad
125	RMH 796	DMR 326	Rasi seeds pvt. Ltd.
Entries completed one years of testing in Early maturity			
1	CMH12-675	DMR 340	TNAU-Coimbatore 641003
2	HKH345	DMR 341	HAU Karnal
3	GYH-0461	DMR 342	ACRIP, AAU Godhara
4	CMH10-552	DMR 343	TNAU-Coimbatore 641003
5	AH-1320	DMR 344	IARI New Delhi
6	AH-1319	DMR 345	IARI New Delhi

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S. No.	Entries Name	Code	Origin
7	AH 7002	DMR 346	IARI New Delhi
8	DAS-MH-502	DMR 347	Dow Agro Science
9	LMH 614	DMR 348	CSK HPKV, Bajura
10	FH 3703	DMR 349	VPKAS, Almora
11	BH 412055	DMR 350	ANGRAU, MRC Rajendranagar, Hyderabad
12	KF-95	DMR 351	Bhartiya Beej Nigam Ltd.
13	KMH12-18	DMR 352	SAR&EC, Kangra
14	EH-2244	DMR 353	RCA Udaipur Center
15	K-26	DMR 354	Kanchan Ganga Seeds Company Pvt Ltd.
16	PM 14109E	DMR 355	PHI Seeds Pvt.Ltd.
17	FH 3704	DMR 356	VPKAS, Almora
18	AH 9001	DMR 357	IARI DELHI
19	CMH10-527	DMR 358	TNAU-Coimbatore 641003
20	DH 283	DMR 359	GBPUAT, Pantnagar
21	PM 14110E	DMR 360	PHI Seeds Pvt.Ltd.
22	CMH12-697	DMR 361	TNAU-Coimbatore 641003
23	DMRE1403	DMR 362	IIMR-New Delhi
24	KMH12-8	DMR 363	SAR&EC, Kangra
25	CMH12-691	DMR 364	TNAU-Coimbatore
26	KDMH 100-1	DMR 365	UAS Dharwad
27	AH-1318	DMR 366	IARI New Delhi
28	AH-1321	DMR 367	IARI New Delhi
29	AH 7001	DMR 368	IARI New Delhi
30	EH-2371	DMR 369	RCA Udaipur Center
31	KMH12-9	DMR 370	SAR&EC, Kangra
32	FH 3695	DMR 371	VPKAS, Almora
33	DH 290	DMR 372	GBPUAT, Pantnagar
34	HKH346	DMR 373	HAU Karnal
35	SAMH-221	DMR 374	Super Agro seedsp pvt.ltd.
36	OMH 11-1	DMR 375	ACRIP, Bhubaneshwer
37	LMH 514	DMR 376	CSK HPKV, Bajura
38	DH 286	DMR 377	GBPUAT, Pantnagar
39	GYH-0656	DMR 378	ACRIP, AAU, Godhara
40	AH 5021	DMR 379	IARI New Delhi
41	BH 412071	DMR 380	ANGRAU, MRC Rajendranagar, Hyderabad
42	JKMH 4025	DMR 381	JK Agri Genetics Ltd.
43	BH 412093	DMR 382	ANGRAU, MRC Rajendranagar, Hyderabad
44	GWH-0503	DMR 383	ACRIP, AAU Godhara
45	GWH-0330	DMR 384	ACRIP, AAU Godhara
46	HKH347	DMR 385	HAU Karnal
Entries completed one years of testing in Extra Early maturity			
1	DH 277	DMR391	GBPUAT, Pantnagar
2	AH-1316	DMR392	IARI New Delhi

S. No.	Entries Name	Code	Origin
3	APH 27	DMR393	IARI New Delhi
4	EH-2234	DMR394	RCA Udaipur Center
5	DH 285	DMR395	GBPUAT,Pantnagar
6	FH 3706	DMR396	VPKAS,Almora
7	DH 287	DMR397	GBPUAT,Pantnagar
8	DH 289	DMR398	GBPUAT,Pantnagar
9	DH 288	DMR399	GBPUAT,Pantnagar
10	EH-2236	DMR400	RCA Udaipur Center
11	AH-1317	DMR401	IARI New Delhi
Specialty corn hybrids (Kharif 2014)			
Entry completed two years of testing in Quality protein Maize (QPM)			
S.No.	Entries Name	Code	Origin
1	VEHQ 11-1	DMR 699	B.H.U.Varanasi
2	MMH QPM-6-12-13	DMR 702	TCA,Dholi
E completed one years of testing in Quality protein Maize (QPM)			
1	BAU QMH-17	DMR 691	BAU,Ranchi
2	BQPMH 18	DMR 692	ANGARAU-Hyderabad
3	BQPMH 36	DMR 693	ANGARAU-Hyderabad
4	KDQH-49 (Zone-I)	DMR 694	SKUAST Jammu
5	LQPMH 114	DMR 695	CSK HPKV,Bajura
6	LQPMH 214	DMR 696	CSK HPKV,Bajura
7	LQPMH 314	DMR 697	CSK HPKV,Bajura
8	OQPMH 11-6	DMR 698	Bhubaneshwer
9	VEHQ 14-1	DMR 700	B.H.U.Varanasi
10	DMRQPM1401	DMR 701	IIMR-New Delhi
Entries Completed three years of testing in Sweet corn			
1	Bajoura Sweet Corn	DMR 734	CSK HPKV,Bajura
2	Bisco Madhu	DMR 735	Bisco Bio Science p ltd.
3	FSCH 18	DMR 738	VPKAS, Almora
4	KSCH-333	DMR 741	Kaveri Seed Company Ltd.
Entries Completed two years of testing in Sweet corn			
1	ADVSW -1	DMR 731	Advanta limited.
2	ADVSW -2	DMR 732	Advanta limited.
3	FSCH 41	DMR 739	VPKAS, Almora
Entries Completed one years of testing in Sweet corn			
1	ASKH 1	DMR 733	IARI DELHI
2	BSCH 6	DMR 736	ANGARAU-Hyderabad
3	BSCH 63	DMR 737	ANGARAU-Hyderabad
4	FSCH 55	DMR 740	VPKAS, Almora
5	QMHS-1182	DMR 742	AICRP,MRS,Kolhapur-12
6	SWC 001 (Zone IV)	DMR 743	Syngenta India Ltd.
Entries Completed three years of testing in Pop corn			
1	Bajoura Popcom-2	DMR 712	CSK HPKV,Bajura

S. No.	Entries Name	Code	Origin
2	VL Pop corn-2	DMR 717	VPKAS, Almora
Entries Completed two years of testing in Pop corn			
1	BPC 3	DMR 713	ANGARAU-Hyderabad
2	BPCH 27	DMR 714	ANGARAU-Hyderabad
3	KDPC-2	DMR 715	SKUAST Jammu
Entries Completed one years of testing in Pop corn			
1	DMRHP1401	DMR 711	WNC-IIMR-Hyderabad
2	DMRHP1402	DMR 716	IIMR-New Delhi
3	HPC1	DMR 718	HAU Karnal
Entries Completed three years of testing in Baby corn			
1	Vivek Hybrid-27	DMR 757	VPKAS, Almora
Entries Completed two years of testing in Baby corn			
1	CMH 11-658	DMR 753	TNAU-Coimbatore 641003
2	CMH 11-659	DMR 754	TNAU-Coimbatore 641003
Entries Completed one years of testing in Baby corn			
1	ASKBH-1	DMR 751	IARI DELHI
2	BVM-2	DMR 752	BAU,Ranchi
3	NP 5004	DMR 755	Syngenta India Ltd.
4	NP 5040	DMR 756	Syngenta India Ltd.

TABLE No. 1: PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT KANPUR, KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, BHUBANESHWAR, DHOLI, RANCHI, VARANASI, ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, VAGARAI, AMBIKAPUR, BANSAWARA, CHHINDWARA, GODHRA, JHABUA, UDAIPUR IN IVT TRIAL No. 61 (IVT-L) DURING KHARIF (2014)

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	ARBH	R	COIM	R	HYDE	R
1	GPS -03	7229	118	8318	64	9511	47	10408	83	8867	87	4949	104	4464	53	5054	117	5047	65	7383	32	5380	90	9818	69	11248	42	8964	28
2	DMRH1416	7226	119	9991	7	7506	92	10148	91	8718	94	6035	77	5034	27	5834	88	5790	40	6292	66	5797	65	10864	45	12271	18	7722	56
3	HT 51412607	8136	98	9664	15	9393	50	9943	93	9284	75	5005	101	4924	31	7514	12	5968	31	8525	11	6387	22	10350	60	10729	47	7449	71
4	GPS -02	9145	63	8661	43	8632	72	12833	24	9818	42	7014	47	4802	36	6517	55	4110	104	6824	44	5854	60	9334	85	12285	17	6878	86
5	SYN417750	9137	64	8064	78	10391	22	12721	25	10079	25	4406	112	3545	105	6255	67	5034	67	5122	100	4872	111	8130	106	11378	39	7503	67
6	DMRH1415	9537	45	10068	4	7518	91	10980	69	9526	61	3550	119	5183	23	5968	81	4346	95	6567	56	5123	104	8262	102	8276	99	7646	60
7	GH-110204	9497	46	7158	109	6012	113	9490	99	8039	111	5168	96	3877	88	6686	44	3937	109	1505	120	4234	119	6838	115	6455	116	6211	99
8	KH-1408	9391	53	7197	108	8142	80	9536	98	8567	98	7805	20	4936	30	5541	103	4265	99	5335	92	5576	82	10837	46	9911	62	5860	104
9	NMH-1247	9275	55	7624	96	9910	35	10363	85	9293	74	6926	52	4230	64	8573	1	4706	83	6823	45	6252	29	12606	14	12440	13	10752	6
10	HKH422	9441	51	8445	56	6851	103	8934	110	8418	103	3872	118	3403	113	5762	94	4504	89	6416	61	4792	114	8212	104	8370	93	6716	89
11	VEH 14-1	8987	67	8680	40	9690	42	12593	29	9987	33	6556	62	6198	6	7068	29	4402	92	8530	10	6551	11	12344	17	10262	54	7137	84
12	PM 14102L	8858	72	10587	1	9466	48	10361	86	9818	41	4201	114	3807	94	6016	79	4820	76	5699	82	4909	110	12726	12	11611	30	7632	61
13	Gin 01	8887	71	9878	9	9076	55	10974	70	9704	48	5643	84	4480	52	6459	57	5141	61	7825	20	5909	58	10199	63	6516	114	6576	94
14	JH 13023	9932	29	8161	72	9686	43	11400	58	9795	45	6833	54	4293	62	5505	106	6210	22	5267	95	5621	79	11586	31	9897	63	10136	11
15	115-08-01	10478	11	8546	52	8912	59	10279	88	9554	59	7002	48	4850	34	5561	102	4577	86	6019	77	5602	80	11409	35	11956	23	9606	17
16	KF-110	10412	12	8554	51	8574	74	8209	117	8937	84	7955	19	3373	114	7004	36	5335	53	6095	74	5952	55	6010	119	8885	84	4275	117
17	PM 14106L	10281	16	8450	55	10684	17	12199	44	10404	13	7609	31	3857	89	6179	72	4311	98	7466	29	5884	59	10408	58	10540	50	10763	5
18	PM 14105L	10899	8	10011	5	9749	37	12700	26	10840	3	4959	103	5847	11	7392	15	5694	42	6118	73	6002	51	12996	9	11298	40	9199	22
19	Bio-069	11006	5	6617	114	9684	44	12317	39	9906	35	7086	45	5695	15	5600	97	6128	25	5592	86	6020	50	11329	36	10553	49	7299	75
20	PMSY -3	9763	35	8662	42	6978	100	8222	116	8406	105	5992	81	3477	108	6549	51	3968	108	3624	117	4722	117	8181	105	6142	118	5487	108
21	NT 8441	8419	86	7098	110	8178	78	13111	19	9201	78	7143	44	4135	73	5731	95	5869	37	7423	30	6060	46	13106	8	8325	96	7232	80
22	Proline-2404	7901	104	9599	17	10780	13	13266	17	10387	14	8925	5	3281	118	7101	28	5559	49	6121	72	6197	35	12738	11	10899	44	7151	81
23	siri -4555	8742	77	9322	23	10433	20	13841	7	10585	9	8379	11	4651	44	5562	100	5609	45	4446	109	5729	70	8804	91	11437	37	7915	53
24	JKMH 4242	10363	14	6196	116	10117	29	11347	60	9506	63	8168	15	3740	97	5416	110	4803	78	4105	111	5246	95	11991	25	10087	57	9916	13
25	GOLD 1166	12181	1	9857	10	8887	61	12237	42	10791	4	8729	6	7045	1	6307	64	5035	66	8862	5	7195	2	9223	87	8567	90	8359	43
26	VNR 4325	11309	4	7874	88	8812	66	12644	27	10160	23	6953	50	4433	57	6237	69	4231	101	5644	84	5500	86	9867	68	9623	72	8908	32
27	CMH12-671	10246	20	4874	120	9545	46	13305	15	9492	64	7658	25	4011	82	7450	14	4129	103	7565	25	6163	39	9399	82	9470	73	7929	52
28	HT 51412616	9607	40	8728	38	9725	40	13348	14	10352	17	6764	56	4072	79	5561	101	5235	58	6712	49	5669	75	12224	20	12381	15	9654	15
29	CMH10-555	9490	48	9715	13	9180	53	13978	5	10591	8	5953	82	4723	41	6246	68	9086	1	7660	24	6734	6	13438	6	10074	58	9175	23
30	CMH12-663	9022	65	9075	27	9731	39	13263	18	10273	18	10260	1	4177	68	7889	3	5306	54	9152	2	7357	1	12045	24	10648	48	8086	50
31	DKC9125	9933	28	7785	91	10750	14	14666	2	10784	5	5332	92	4102	76	6530	53	4881	72	6392	63	5447	87	11313	37	10299	53	6177	100
32	KMH-3981	10152	22	8211	68	10920	9	12845	23	10532	11	6534	63	6523	3	4817	119	5448	50	6393	62	5943	56	10501	52	13729	2	11382	1

BR18

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 ARBH	R COIM	R HYDE	R													
33	DMH-192	8890	70	8622	45	9739	38	12200	43	9863	38	6901	53	4463	54	5584	99	5965	32	5294	94	5642	77	14802	2	13398	7	8913	31
34	DMRH1413	8361	90	8362	62	1763	120	9372	101	6964	120		120	3821	90	7177	25	4190	102	1738	119	4232	120	6760	117	3624	120	3062	120
35	K-25 Gold	9706	37	7793	90	7166	96	9471	100	8534	99	6071	76	4681	42	7491	13	4347	94	5358	91	5589	81	10151	64	12740	9	9001	27
36	IN 8569	11002	6	7733	93	13192	1	11567	55	10873	2	5114	97	3667	101	7118	27	4776	79	6351	65	5405	89	15079	1	11397	38	9487	19
37	GK-3118	9588	42	5490	119	8882	62	11317	61	8819	89	6202	72	3966	83	7315	19	5257	57	6957	43	5939	57	12523	15	10396	52	8416	41
38	DMRH1409	11433	2	9563	18	8102	82	8308	114	9352	73	7566	34	4171	70	5505	105	6237	21	7701	23	6236	31	10764	49	8436	91	7102	85
39	VNR 31862	10986	7	7505	100	7247	93	12417	32	9539	60	8640	7	5775	14	6552	50	6515	16	3923	113	6281	27	7572	110	11738	28	6762	87
40	MAH-957	9707	36	6477	115	6344	109	10532	79	8265	107	4042	117	4375	59	5852	87	4341	96	4480	108	4618	118	8618	92	8293	97	6174	101
41	DMH-7721	8984	68	6636	113	11364	7	13825	8	10202	22	6787	55	5923	9	6231	70	6618	10	6461	58	6404	21	9581	78	14149	1	7377	72
42	NT 8711	8689	78	7909	86	10324	25	12355	35	9819	40	7661	24	3441	109	6571	49	5859	38	7310	36	6168	38	12216	21	12117	20	5216	111
43	JH 13249	8636	80	8561	49	8105	81	10389	84	8922	85	8507	10	4800	37	6123	75	4505	88	8579	9	6503	16	8275	100	9630	71	7720	57
44	SAMH-225	9312	54	8174	70	5358	117	10818	73	8416	104	6643	58	4209	66	6138	73	4567	87	6581	53	5627	78	8403	96	8820	86	6677	90
45	JH 13041	9466	50	7635	95	4821	118	9655	96	7894	114	8185	14	3917	84	5440	108	5020	68	6580	54	5828	63	9741	71	10032	59	7697	58
46	JH 12063	8607	83	8539	53	11207	8	11193	65	9886	36	8517	9	3538	106	6310	63	6409	18	7086	38	6372	23	10809	48	9793	69	10877	3
47	JH 13094	8749	76	7738	92	8936	58	11410	57	9209	76	5369	91	3558	104	7023	33	7579	5	7177	37	6141	41	10392	59	6958	110	7141	82
48	RMH-726	9880	30	8086	77	10104	32	12477	31	10137	24	8104	16	3496	107	5231	114	4831	75	8657	7	6064	45	10469	56	12231	19	7581	63
49	JH 13044	11388	3	8671	41	7641	90	12331	37	10008	30	4192	116	4446	55	7392	16	8327	2	8594	8	6590	8	10489	54	11969	22	6408	95
50	PMSW 4	10394	13	7302	105	6449	106	7987	118	8033	112	4937	105	4349	60	6116	76	3681	115	5193	99	4855	113	6790	116	6054	119	5086	113
51	PM 14104L	10012	27	8063	79	10170	28	10997	68	9810	43	4569	110	3281	117	5963	82	6111	26	6202	68	5225	97	11964	26	10731	46	10356	8
52	CP.555	9189	60	8797	36	8490	75	12325	38	9700	49	6627	59	4104	75	7540	11	6191	23	8451	14	6583	9	11769	28	11277	41	9926	12
53	JH 13183	10717	10	9052	28	8891	60	9578	97	9559	57	5396	89	5855	10	7602	10	6029	28	7338	35	6444	20	7838	108	8892	83	7559	64
54	DMRH1411	9569	44	9690	14	7004	99	11155	66	9355	72	9176	4	5195	22	6004	80	6533	14	5687	83	6519	14	9756	70	6485	115	7328	74
55	JH 12150	8969	69	8305	65	10264	27	10958	71	9624	51	6529	65	5267	21	6797	40	6608	12	7064	39	6453	17	10443	57	11514	33	6629	92
56	Gin 02	10782	9	7294	106	10344	23	11846	51	10066	26	5541	87	4389	58	6283	66	6688	8	6987	42	5977	54	9400	81	9833	67	7290	77
57	BH 412140	9395	52	8393	60	7812	88	10795	74	9099	80	7262	42	4577	47	5770	92	5679	43	7409	31	6139	43	8266	101	10125	56	7296	76
58	NT 6325	10224	21	8558	50	10817	11	10085	92	9921	34	6943	51	3814	93	5250	113	5823	39	7358	34	5838	62	10590	50	11499	35	8501	40
59	DMRH1308	10264	17	8370	61	10404	21	10283	87	9830	39	8569	8	4744	40	5794	90	4981	69	6785	48	6175	37	10484	55	9313	77	9401	21
60	ADV 1190384	8396	87	8608	46	10106	31	13915	6	10256	20	7634	27	4167	71	6215	71	5671	44	9036	3	6544	12	11219	38	13571	5	6624	93
61	HT 51412373	8627	81	7997	83	8825	64	9915	94	8841	88	5537	88	5982	8	5297	112	3826	112	6184	69	5365	92	12457	16	9882	65	9451	20
62	SAFAL X-2	9211	57	7400	103	9630	45	11841	52	9521	62	6599	60	4638	46	5914	85	5386	52	7471	27	6002	52	5970	120	13163	8	5110	112
63	JH 13197	10048	24	10418	2	6395	108	11399	59	9565	56	5996	79	4105	74	6473	56	6632	9	5823	80	5806	64	9569	79	8707	89	7333	73
64	super 6768	9174	61	8169	71	8764	67	10250	89	9089	81	6126	74	4304	61	5894	86	3677	116	5731	81	5147	101	9735	72	11749	27	8878	33
65	JH 13278	9811	33	8353	63	10904	10	12343	36	10353	16	7035	46	4043	81	6061	78	5054	64	7017	41	5842	61	10822	47	10179	55	10616	7
66	IN 8570	9495	47	8273	66	8757	68	12364	33	9722	47	7594	32	5816	12	7630	9	5285	55	6251	67	6515	15	10881	44	12640	10	9540	18
67	GPMH-1111	10264	18	8099	76	6043	112	10523	80	8732	93	6734	57	4097	77	6342	62	3928	111	4527	106	5126	103	11201	39	8366	94	7494	68

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 ARBH	R COIM	R HYDE	R													
68	JH 13248	8396	88	8432	57	9194	52	12258	40	9570	55	5314	93	4494	51	7332	18	5129	62	6389	64	5732	69	10994	42	8182	101	8209	47
69	SAMH-378	8627	82	7876	87	9034	56	12071	48	9402	69	6241	71	4800	38	7644	8	6266	20	3709	115	5732	68	8338	98	8420	92	7540	66
70	KH-2192	9211	58	8044	80	11605	6	11266	64	10032	28	7576	33	5054	26	5946	83	6427	17	6601	52	6321	25	10938	43	11466	36	8960	29
71	ADV 0990293	10048	25	9076	26	8817	65	17518	1	11364	1	7518	35	4504	50	4868	118	5157	60	6429	60	5695	73	13515	4	12518	11	8324	44
72	JH 13252	9211	59	9807	11	10539	19	13380	13	10734	6	6005	78	3769	96	6635	46	4008	106	8506	13	5785	66	10071	66	11850	24	10228	9
73	NMH 1605	10048	26	9475	21	7196	95	11009	67	9432	67	7973	18	4136	72	7916	2	5608	46	5578	87	6242	30	9448	80	9998	61	7975	51
74	GPMH-1101	9174	62	7966	84	6975	101	9747	95	8465	101	5180	95	3674	99	6111	77	5065	63	4523	107	4910	109	10116	65	7554	105	7546	65
75	PM 14101L	9570	43	8156	74	10315	26	13758	9	10450	12	7240	43	3433	111	5140	115	2374	120	8517	12	5341	93	12761	10	11814	25	8587	37
76	CMH12-667	9272	56	8850	34	9707	41	12172	45	10000	32	6977	49	5118	25	7028	30	6530	15	8077	19	6746	5	11171	40	11558	32	8501	39
77	BH 412141	10264	19	9050	29	8283	77	10640	77	9559	58	5993	80	3897	87	6729	43	5963	33	5218	97	5560	85	10244	62	8970	81	7684	59
78	Srikar 3033	8396	89	7848	89	7819	87	8943	109	8251	108	7443	40	3589	102	7021	35	5273	56	7720	21	6209	34	12206	22	12091	21	9887	14
79	JH 13282	8132	99	7490	101	8838	63	10787	75	8812	91	5639	85	5320	20	7128	26	8007	3	7030	40	6625	7	8887	89	8283	98	8750	35
80	IN 8903	8337	92	5614	118	12123	3	11646	54	9430	68	7358	41	4048	80	6894	39	3932	110	6434	59	5733	67	13494	5	7961	103	8298	46
81	GYH-0652	7435	116	8411	58	7082	98	7262	119	7547	116	4986	102	6261	4	6302	65	4332	97	3723	114	5121	105	7088	112	6331	117	4654	115
82	NMH 1008	8595	84	7562	98	9840	36	12959	21	9739	46	5381	90	4823	35	6632	47	3817	113	5960	78	5323	94	9626	76	10827	45	8914	30
83	GK-3124	7782	108	7646	94	10811	12	12103	47	9585	54	7637	26	4520	49	6683	45	5892	36	9824	1	6911	3	11516	34	11794	26	7459	69
84	ADV 0990296	8179	95	7519	99	10639	18	12240	41	9644	50	5031	99	5142	24	6941	37	4946	70	8208	15	6054	47	11697	30	11600	31	8654	36
85	CMH11-618	7251	117	8181	69	7987	83	13396	11	9204	77	5016	100	3414	112	6765	41	3648	117	8201	16	5409	88	10493	53	13648	3	8842	34
86	REH2013-5	7836	107	8696	39	5975	114	8886	111	7848	115	4702	108	4639	45	7022	34	3046	119	4879	102	4858	112	6617	118	9349	75	5487	109
87	DAS-MH-106	8824	73	7078	111	11825	5	12527	30	10064	27	7748	22	4209	65	6544	52	6131	24	6528	57	6232	32	12244	18	13578	4	7837	54
88	JH 13244	7474	113	8405	59	7876	84	11287	62	8760	92	7615	30	4670	43	6751	42	7888	4	7380	33	6861	4	9629	75	8110	102	6064	103
89	AMH-3436	8278	94	9943	8	8739	70	13064	20	10006	31	8235	13	5454	17	6370	60	6030	27	6799	47	6578	10	10344	61	9896	64	8549	38
90	IN 8603	7987	101	9312	24	12142	2	10604	78	10011	29	7631	28	6035	7	7258	21	5947	34	5387	90	6452	18	10556	51	9803	68	7630	62
91	JH 13230	7943	102	9538	19	9946	33	13387	12	10203	21	7742	23	3817	91	6421	59	4866	74	8094	18	6188	36	11565	32	11684	29	8317	45
92	DAS-MH-107	7564	110	8582	48	8745	69	14292	3	9796	44	8034	17	5547	16	5122	116	5585	47	5866	79	6031	49	12244	19	10018	60	5631	106
93	IAHM 2013-12	8039	100	8029	81	8672	71	11664	53	9101	79	5793	83	4973	29	6903	38	4804	77	4353	110	5365	91	8251	103	8347	95	3516	119
94	JH 12010	7760	109	7951	85	8970	57	11488	56	9042	82	6514	66	3327	115	7666	4	6614	11	6579	55	6140	42	8376	97	8721	88	9621	16
95	BH 412131	6933	120	8254	67	8418	76	9039	107	8161	109	6351	68	4188	67	6132	74	5580	48	6058	75	5662	76	9343	84	8943	82	6671	91
96	Super 1177	8178	96	9421	22	12071	4	12633	28	10576	10	6329	69	6776	2	7374	17	6816	7	5390	89	6537	13	12656	13	11511	34	10904	2
97	Super 777	7892	105	8157	73	7860	85	11942	50	8963	83	6273	70	4433	56	6627	48	4874	73	7707	22	5983	53	8518	93	12300	16	6354	96
98	GH-110145	9634	39	9046	30	6044	111	8706	112	8357	106	4195	115	4172	69	6525	54	5210	59	3635	116	4747	116	8058	107	6762	113	7261	78
99	JH 13045	10081	23	7435	102	9105	54	12904	22	9881	37	6175	73	5397	18	5534	104	4736	82	6635	50	5695	72	9224	86	12485	12	10877	4
100	JH 13037	8818	74	7341	104	7732	89	10171	90	8516	100	4478	111	4899	32	7024	32	5971	30	6177	70	5710	71	11533	33	9108	79	6250	97
101	MAH-974	7538	112	8867	33	6430	107	9216	104	8013	113	7471	39	3816	92	7658	5	4046	105	3175	118	5233	96	7081	113	6876	111	8165	49
102	BH 412096	8994	66	9766	12	6952	102	9100	106	8703	95	9517	2	4267	63	6423	58	4399	93	6153	71	6152	40	9609	77	9405	74	7764	55

BR20

SI 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 ARBH	R COIM	R HYDE	R						
103	PRMH-189	9844	31 9032	31 8619	73 13566	10 10265	19 6566	61 3573	103 7247	23 3536	118 5194	98 5223	98 9365	83 13499	6 10190	10						
104	IN 8902	8430	85 8630	44 9943	34 8248	115 8813	90 7491	37 3913	85 5916	84 3977	107 8957	4 6051	48 11962	27 11018	43 9050	26						
105	IN 8602	8308	93 5628	117 10725	15 13268	16 9482	65 4273	113 6248	5 7196	24 4673	85 6020	76 5682	74 13436	7 9704	70 9122	25						
106	REH2013-6	9605	41 10075	3 5650	116 12108	46 9360	70 6123	75 4537	48 5443	107 4755	80 4746	103 5121	106 7759	109 6828	112 4620	116						
107	JH 13270	7462	114 9484	20 10699	16 10719	76 9591	53 7787	21 3325	116 7312	20 5897	35 7503	26 6365	24 13797	3 10521	51 8374	42						
108	BH 412095	8143	97 8606	47 9405	49 11267	63 9355	71 8315	12 3253	119 5764	93 6342	19 7467	28 6228	33 9936	67 7571	104 7234	79						
109	HKH423	9481	49 8002	82 6152	110 12033	49 8917	86 5087	98 4887	33 4810	120 5777	41 5093	101 5131	102 6906	114 9105	80 6067	102						
110	Sonam -27	9692	38 8822	35 6820	104 9273	103 8652	96 6475	67 5351	19 5324	111 6025	29 4688	104 5572	83 8498	94 7048	109 5823	105						
111	REH2013-2	8641	79 8143	75 7100	97 6190	120 7519	117 6533	64 3252	120 7025	31 5429	51 5611	85 5570	84 9669	73 7333	106 7458	70						
112	JKMH 4023	8355	91 8514	54 10339	24 14274	4 10370	15 7471	38 3434	110 7651	7 6537	13 5545	88 6127	44 9645	74 12386	14 9133	24						
113	AH 7005	9802	34 6744	112 7820	86 9319	102 8421	102 4766	107 3671	100 6370	61 4473	90 6817	46 5220	99 8480	95 8863	85 6729	88						
114	CSM-1	7457	115 9150	25 6707	105 8991	108 8076	110 4698	109 4794	39 5806	89 4471	91 4001	112 4754	115 8884	90 8772	87 6238	98						
115	CSM-2	7861	106 7567	97 4535	119 9174	105 7284	118 5283	94 3779	95 7653	6 4254	100 4599	105 5114	107 7537	111 7105	108 3768	118						
CHECKS																						
116	PMH1	10318	15 9624	16 10116	30 12356	34 10604	7 7498	36 5011	28 5787	91 7328	6 6603	51 6445	19 11739	29 9326	76 8165	48						
117	PMH3	8779	75 8742	37 9307	51 10922	72 9437	66 4800	106 5798	13 7249	22 4689	84 8765	6 6260	28 11005	41 9839	66 4730	114						
118	BIO-9681	7923	103 8950	32 7216	94 10438	81 8632	97 7631	29 3905	86 5418	109 3710	114 5309	93 5195	100 8899	88 7309	107 5548	107						
119	SeedTech 2324	9835	32 10009	6 8148	79 10435	82 9607	52 9228	3 3713	98 5631	96 4743	81 8156	17 6294	26 12076	23 8233	100 7139	83						
120	HM11	7559	111 7276	107 5946	115 8352	113 7283	119 5560	86 4091	78 5600	98 4921	71 5259	96 5086	108 8287	99 9124	78 5342	110						
Location Mean		9150	8351	8778	11297	9394	6568	4477	6418	5276	6372	5811	10243	10013	7720							
C.D. (5%)		1141	306	1259	2100	1202	950	466	2078	1138	1111	1149	2786	1391	1423							
C.V. (%)		7.75	2.28	10.32	11.56	-	9.07	6.46	20.13	10.89	8.81	-	16.91	8.63	11.46							
F (Prob)		0	0	0	0	-	0	0	0.229	0	0	-	0	0	0							
Plot Size		4.8	6	5.46	6	-	4.8	4.8	6	5.6	4.8	-	4.8	4.8	6							
AGRONOMY DATA																						
Sowing Date		26-07	2-07	27-06	24-06	-	1-07	11-07	10-07	12-07	29-06	-	14-07	3-70	9-07							
Harvest Date		10-11	10-10	22-10	31-10	-	10-10	5-11	23-10	23-10	17-10	-	6-11	3-11	1-11							
Irrigation Nos		2	6	5	1	-	-	-	2	-	2	-	8	9	5							
Fertilizer Applied N		120	150	125	120	-	150	120	120	120	120	-	150	150	200							
Fertilizer Applied P		60	60	60	60	-	75	60	60	60	60	-	75	75	60							
Fertilizer Applied K		50	60	30	40	-	60	60	40	40	40	-	37.5	75	50							

TABLE No. 1: (CONT...)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																									
		ZN 4												ZN 5				OVL									
		KARI	R KOLH	R MAND	R VAGA	R MEAN	R AMBI	R BANS	R CHHI	R GODH	R JHAB	R UDAI	R MEAN	R MEAN	R												
1	GPS -03	10146	2	5045	69	8116	84	3805	99	8163	52	4166	112	5454	61	5011	66	4428	70	5461	43	5266	44	4964	94	6786	84
2	DMRH1416	7736	37	4812	78	8694	67	5205	40	8186	48	7499	16	3984	115	4730	80	2614	106	5553	39	4819	70	4866	98	6834	77
3	HT 51412607	7216	60	6208	18	9222	46	4661	65	7977	61	7669	10	5888	37	5145	57	9719	1	5959	21	5773	34	6692	4	7503	16
4	GPS -02	8541	15	3953	113	7473	99	5469	33	7705	67	5002	99	5027	79	4706	83	5391	46	5714	32	3695	109	4923	96	6909	72
5	SYN417750	7466	51	4502	96	8959	55	5420	35	7623	69	5166	95	6455	13	5960	16	3862	83	5192	54	3992	100	5104	76	6757	87
6	DMRH1415	7192	62	5862	29	5145	118	4679	63	6723	96	6168	67	5667	46	6463	5	5729	43	6597	7	4853	64	5913	16	6648	90
7	GH-110204	4331	117	4106	111	7798	91	3948	96	5669	116	7445	18	4711	96	4592	91	4502	63	4287	100	4366	93	4984	89	5587	117
8	KH-1408	7692	40	4271	102	9526	37	6994	8	7870	65	5833	79	4790	90	4674	85	7164	16	5635	36	4268	97	5394	49	6800	81
9	NMH-1247	8593	12	5432	51	9824	30	5935	19	9369	2	6445	57	6696	11	4908	70	2644	105	6065	17	4772	73	5255	63	7525	14
10	HKH422	5697	107	5141	65	7049	104	4717	61	6557	100	6664	44	4668	101	3329	120	2952	101	4579	86	5438	40	4605	111	5962	110
11	VEH 14-1	7491	48	4622	90	10106	25	4103	90	8009	59	8000	6	6410	18	3870	114	6971	20	5395	48	4828	67	5912	17	7466	20
12	PM 14102L	8496	17	5614	37	8147	81	4530	72	8394	36	7336	24	5083	77	3915	112	5934	37	5051	66	3704	107	5170	70	6981	65
13	Gin 01	6522	83	5579	39	6460	114	3716	103	6510	104	5446	88	3905	117	4202	104	7766	10	5890	24	4584	90	5299	59	6624	92
14	JH 13023	7129	66	5619	36	9234	45	4689	62	8327	40	6224	65	5904	35	4111	106	8660	4	5346	49	6501	15	6124	10	7378	29
15	115-08-01	6611	80	4655	87	9026	52	7469	3	8676	23	4888	102	6014	28	5865	20	4364	71	4595	84	5443	39	5195	69	7187	51
16	KF-110	6946	72	5888	27	4829	120	3554	108	5770	115	6387	60	4921	82	5645	31	2727	103	4895	74	4625	87	4866	97	6141	105
17	PM 14106L	7452	52	6257	17	9258	43	4617	69	8471	33	7442	21	5110	73	6157	13	5897	39	4910	73	4688	83	5701	28	7479	19
18	PM 14105L	7427	54	3668	117	9576	35	4874	49	8434	35	4946	100	5121	71	4525	93	7133	18	4413	97	6644	14	5464	40	7509	15
19	Bio-069	7845	34	4588	92	11160	8	5843	20	8374	37	6777	38	6282	23	4639	88	2288	112	3819	116	4743	78	4758	106	7131	55
20	PMSY -3	5838	101	4216	105	9259	42	4198	84	6189	109	5503	86	5022	80	5129	60	6133	33	3899	115	5699	36	5231	66	5997	108
21	NT 8441	6765	76	4413	97	11368	5	4849	52	8008	60	5722	83	5085	76	4794	76	5116	52	3905	114	6162	22	5131	73	6998	64
22	Proline-2404	8406	20	4405	98	9664	33	3917	97	8169	51	8056	5	4690	97	5494	36	4651	60	3742	117	5940	29	5429	45	7377	30
23	siri -4555	8049	28	5891	26	10115	24	5802	21	8288	41	6111	70	4908	83	6197	10	4722	57	3985	112	4791	72	5119	74	7260	45
24	JKMH 4242	7230	58	5298	58	10209	22	5337	37	8581	28	6501	52	5514	54	5814	25	5393	45	4038	109	7468	7	5788	23	7230	49
25	GOLD 1166	7569	45	5548	42	9093	51	4744	58	7586	71	5389	90	6949	6	5104	64	2937	102	4001	110	4712	80	4849	99	7333	35
26	VNR 4325	6724	79	5545	43	10198	23	5648	26	8073	56	9109	2	6195	26	3766	116	8091	8	4751	79	5102	51	6169	8	7348	32
27	CMH12-671	7257	57	6470	11	9932	28	6566	10	8146	53	7500	15	4852	88	4137	105	4350	72	4518	90	6301	19	5276	61	7157	54
28	HT 51412616	6967	71	4566	95	11189	7	6525	11	9072	6	6780	37	5944	34	4710	82	2245	114	4429	94	7563	5	5279	60	7497	17
29	CMH10-555	8544	14	6184	20	8186	79	5734	23	8762	19	7336	23	5455	60	5668	30	5895	40	6157	13	4969	57	5913	15	7857	1
30	CMH12-663	8353	21	7120	3	8221	78	6741	9	8745	20	5776	81	4764	92	5787	28	4457	65	5281	51	6265	20	5388	50	7792	4
31	DKC9125	7628	41	5508	47	7207	103	5098	42	7604	70	7055	29	4899	85	4712	81	6525	27	5748	31	4922	59	5644	29	7157	53
32	KMH-3981	7708	39	5597	38	8585	72	4958	48	8923	9	3334	120	4669	100	5796	26	8936	2	5691	33	6878	10	5884	19	7709	9

BR22

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																									
		ZN 4										ZN 5					OV'L										
		KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R	AMBI	R	BANS	R	CHHI	R	GODH	R	JHAB	R	UDAI	R	MEAN	R	MEAN	R
33	DMH-192	8463	18	4399	99	8751	62	3614	107	8906	12	6278	62	6688	12	5292	47	4437	69	4689	82	5916	30	5550	36	7423	24
34	DMRH1413	2439	120	3160	120	5074	119	3789	100	3987	120	7779	7	2980	120	5682	29	4082	79	4422	95	4750	76	4949	95	5382	120
35	K-25 Gold	7175	64	4739	84	9960	26	5580	30	8478	32	7497	17	3779	119	6020	14	2269	113	4844	75	5481	38	4982	90	6878	74
36	IN 8569	9643	4	5747	32	11489	3	5367	36	9744	1	6278	61	5113	72	5235	51	2680	104	4573	88	4827	68	4784	104	7611	11
37	GK-3118	8627	11	7129	2	7735	92	6118	17	8706	22	4445	108	4475	107	5428	40	3495	95	4982	71	4070	99	4483	115	6946	68
38	DMRH1409	7774	36	4360	100	9558	36	4305	78	7471	74	6446	55	6442	14	6175	12	6061	34	3579	119	3904	104	5434	44	6977	66
39	VNR 31862	5798	103	3882	115	8665	69	4254	81	6953	91	6166	68	4631	104	4641	87	1781	117	4725	80	1602	120	3924	119	6444	96
40	MAH-957	5360	109	4223	104	6696	108	3440	112	6115	111	6555	47	4840	89	4485	94	3385	97	4579	87	3674	110	4586	112	5749	116
41	DMH-7721	8673	10	3319	119	7627	94	7012	7	8248	42	7557	12	5574	51	5860	21	2560	107	4382	98	2792	117	4787	103	7241	46
42	NT 8711	7555	46	5111	66	10617	15	5727	24	8366	38	6610	46	5992	31	4649	86	4667	59	4271	101	4342	95	5089	78	7237	47
43	JH 13249	6563	81	5721	34	7614	95	3747	102	7039	89	9500	1	5605	47	5231	52	4438	68	5035	67	4872	62	5780	24	6916	71
44	SAMH-225	7000	69	5883	28	9154	50	4550	71	7212	85	5446	89	5357	63	3912	113	4444	67	5167	56	3697	108	4671	110	6378	98
45	JH 13041	6891	74	4857	77	9500	38	3399	115	7445	79	6555	48	5974	33	5423	41	2998	99	4824	76	5542	37	5219	68	6552	93
46	JH 12063	8816	9	5155	62	8871	59	3985	93	8329	39	4666	105	4741	94	4603	90	6875	21	3690	118	5875	32	5075	79	7280	40
47	JH 13094	7535	47	3356	118	6604	110	4974	46	6709	97	6944	33	5750	40	4604	89	6392	29	5400	47	7539	6	6105	11	6869	75
48	RMH-726	6264	89	6591	8	9380	39	5161	41	8239	43	6502	51	5183	68	4985	67	3773	84	6066	16	4081	98	5098	77	7233	48
49	JH 13044	7192	63	4018	112	10584	16	5004	45	7952	62	3499	118	4668	102	5360	43	4578	61	5024	68	4921	60	4675	109	7123	57
50	PMSW 4	4868	112	4763	82	7830	90	3307	118	5528	117	7445	19	4866	87	4360	99	6364	30	4991	70	4350	94	5396	48	5795	114
51	PM 14104L	7902	33	6982	4	8468	73	3965	94	8624	24	5055	98	5162	70	5363	42	4312	74	6135	14	5889	31	5319	56	7166	52
52	CP.555	6186	90	6501	9	9365	40	5222	39	8607	26	4391	109	6110	27	7030	2	6724	24	5493	42	4619	88	5728	26	7560	12
53	JH 13183	6020	96	4777	81	6819	106	4639	68	6649	99	5723	82	6417	16	5112	63	3614	90	5634	37	6026	26	5421	47	6797	83
54	DMRH1411	6435	86	4804	79	6804	107	4121	87	6533	103	7000	30	5541	52	5571	32	3458	96	5451	45	6332	18	5559	34	6777	86
55	JH 12150	7274	56	6316	15	8624	71	6455	12	8180	49	6110	71	3923	116	4063	110	6464	28	5453	44	6716	11	5455	41	7307	37
56	Gin 02	7434	53	5165	61	8243	76	3506	111	7267	83	7166	27	5720	42	4901	72	6183	32	3456	120	4812	71	5373	53	6966	67
57	BH 412140	6737	77	6031	21	8938	56	4812	55	7458	77	3446	119	4623	105	5167	56	7399	14	5525	41	4845	65	5167	71	6832	78
58	NT 6325	9356	6	6025	22	9938	27	6414	14	8903	13	8168	3	4869	86	5820	24	2329	109	5782	28	4990	56	5326	55	7416	25
59	DMRH1308	8898	8	6437	13	11888	1	7652	2	9154	4	7057	28	5670	45	4978	68	6277	31	4530	89	6366	17	5813	21	7688	10
60	ADV 1190384	7728	38	5981	24	10932	11	5647	27	8814	16	3887	115	4653	103	5510	35	2402	108	4913	72	5118	49	4414	116	7361	31
61	HT 51412373	6103	93	6464	12	10844	12	4973	47	8596	27	4501	107	5903	36	4097	108	7587	11	4421	96	6396	16	5484	39	7058	60
62	SAFAL X-2	8421	19	4862	76	10980	10	4115	89	7517	72	4390	111	6202	25	5884	19	6842	22	5056	65	1628	118	5000	87	6851	76
63	JH 13197	5864	100	5349	55	6636	109	4119	88	6797	93	5112	97	4774	91	4006	111	3718	85	4180	105	3897	105	4281	118	6389	97
64	super 6768	7150	65	5729	33	8773	61	5660	25	8239	44	5166	96	5593	48	5920	18	3895	82	4595	85	5066	54	5039	82	6818	80
65	JH 13278	7972	32	4969	72	9757	31	5246	38	8509	30	4722	104	5719	43	6183	11	4315	73	4051	108	8543	2	5589	32	7442	23
66	IN 8570	8123	24	5068	67	9659	34	6439	13	8907	11	3611	116	7201	3	4958	69	3685	87	4110	107	3923	103	4581	113	7332	36
67	GPMH-1111	6118	92	4982	71	6411	115	4298	79	6982	90	6777	39	6801	9	5140	58	3597	91	5899	23	5126	48	5556	35	6489	94

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																									
		ZN 4															ZN 5					OV'L					
		KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R	AMBI	R	BANS	R	CHHI	R	GODH	R	JHAB	R	UDAI	R	MEAN	R	MEAN	R
68	JH 13248	6997	70	5496	49	6081	116	4848	53	7258	84	6222	66	5477	56	5842	22	1499	118	6715	6	6050	24	5301	58	6798	82
69	SAMH-378	6542	82	6204	19	8965	54	3419	113	7061	87	6057	72	4676	99	5133	59	5168	51	5152	59	3987	101	5029	83	6630	91
70	KH-2192	10323	1	5505	48	8639	70	5624	29	8779	18	6112	69	7552	2	5335	46	6766	23	5178	55	6037	25	6163	9	7735	6
71	ADV 0990293	7776	35	4189	107	10370	20	4347	76	8720	21	4056	113	7054	5	5189	55	8361	7	5252	52	4822	69	5789	22	7714	8
72	JH 13252	8168	23	4577	93	7996	86	4458	74	8192	46	6944	34	6789	10	6424	6	7068	19	7119	4	8362	4	7118	1	7814	3
73	NMH 1605	7491	49	4798	80	8311	75	4223	82	7463	76	5225	94	5591	49	6206	9	2323	110	4470	92	5035	55	4808	102	6820	79
74	GPMH-1101	7228	59	4644	88	7012	105	3545	109	6806	92	8112	4	4100	114	3755	117	4569	62	6312	10	5842	33	5448	42	6307	99
75	PM 14101L	9665	3	6902	5	11400	4	4131	86	9323	3	5279	93	5352	64	4202	103	4871	53	5015	69	5284	43	5001	86	7444	22
76	CMH12-667	6510	84	5540	44	8710	65	4800	56	8113	54	7334	25	5997	29	3842	115	6035	35	5825	27	6021	28	5842	20	7526	13
77	BH 412141	6168	91	7416	1	9756	32	4648	67	7841	66	4834	103	6328	20	4784	77	6592	26	6190	12	4459	91	5531	38	7005	62
78	Srikar 3033	6475	85	5379	53	6466	113	3762	101	8038	58	4000	114	5740	41	5472	39	8555	5	5764	30	6690	13	6037	12	7115	58
79	JH 13282	8235	22	5904	25	7336	101	4261	80	7379	81	6667	41	6419	15	5543	33	7234	15	6389	8	9290	1	6924	2	7344	33
80	IN 8903	7576	44	5578	40	11618	2	5034	44	8509	31	6499	54	5986	32	4479	95	4794	54	7463	1	5110	50	5722	27	7285	39
81	GYH-0652	4171	118	4207	106	5880	117	3880	98	5173	119	4945	101	4292	112	5794	27	5979	36	3998	111	4948	58	4993	88	5544	118
82	NMH 1008	8511	16	5213	60	8901	57	4311	77	8043	57	6500	53	5190	67	4848	73	4098	78	5850	26	3587	112	5012	85	6907	73
83	GK-3124	6052	95	5027	70	9321	41	6037	18	8172	50	6943	35	6905	7	5057	65	2975	100	5764	29	4672	84	5386	51	7383	28
84	ADV 0990296	9254	7	5437	50	9824	29	7304	5	9110	5	6000	74	6806	8	4731	79	7161	17	6370	9	6191	21	6210	6	7722	7
85	CMH11-618	7994	31	4661	86	8241	77	7705	1	8798	17	6665	43	5683	44	4823	75	3718	86	4662	83	4691	81	5040	81	7077	59
86	REH2013-5	5407	108	4174	108	8982	53	3324	116	6192	108	6278	63	4349	109	4702	84	3922	81	5542	40	3865	106	4776	105	5804	113
87	DAS-MH-106	7579	43	5392	52	10570	17	5537	31	8963	8	5999	75	4316	110	5223	54	993	119	6301	11	3351	114	4364	117	7288	38
88	JH 13244	6426	88	5764	31	8141	82	3410	114	6792	94	7778	8	5300	66	5486	38	7439	12	5144	60	4336	96	5914	14	6926	70
89	AMH-3436	5781	104	5534	45	10708	14	4828	54	7949	63	7443	20	4902	84	4290	100	5738	42	6024	18	3082	116	5247	65	7274	41
90	IN 8603	9374	5	6597	7	10377	19	4874	50	8459	34	7500	14	5996	30	4097	107	3088	98	6019	19	3176	115	4980	91	7336	34
91	JH 13230	7022	68	4932	75	9253	44	4589	70	8194	45	4391	110	6297	22	5935	17	4455	66	7200	3	5182	47	5577	33	7390	26
92	DAS-MH-107	8061	27	5835	30	10993	9	3955	95	8105	55	6388	59	6311	21	4097	109	3987	80	6998	5	4757	75	5423	46	7210	50
93	IAHM 2013-12	5973	97	4299	101	8404	74	3311	117	6014	113	6276	64	5388	62	4235	101	933	120	4451	93	1622	119	3817	120	5829	112
94	JH 12010	6946	73	5321	57	7643	93	4659	66	7327	82	6554	49	6345	19	4904	71	8471	6	5112	62	7190	8	6429	5	7124	56
95	BH 412131	5210	110	6654	6	8113	85	4459	73	7056	88	5502	87	5582	50	5342	45	5237	49	5983	20	4664	86	5385	52	6484	95
96	Super 1177	8064	26	5989	23	8893	58	4383	75	8914	10	6446	56	7679	1	3646	118	5674	44	5244	53	6700	12	5898	18	7854	2
97	Super 777	7211	61	5633	35	7448	100	4782	57	7464	75	5666	84	5493	55	4223	102	4706	58	4811	77	4890	61	4965	93	6718	88
98	GH-110145	4410	116	4962	73	7834	89	5488	32	6396	106	6612	45	4403	108	5821	23	2295	111	5152	58	3960	102	4707	107	5917	111
99	JH 13045	6430	87	6312	16	11316	6	3619	106	8609	25	6998	31	4687	98	5280	48	5337	47	4266	102	5078	53	5274	62	7269	43
100	JH 13037	6728	78	3831	116	9155	49	7184	6	7684	68	5889	78	5099	74	6795	3	3670	88	4200	104	5719	35	5229	67	6717	89
101	MAH-974	5765	105	5517	46	8677	68	3665	105	6535	102	6056	73	5475	57	5490	37	5250	48	5063	64	4749	77	5347	54	6184	103
102	BH 412096	7369	55	4611	91	7501	98	5443	34	7386	80	6724	40	4312	111	6299	7	4467	64	5416	46	4689	82	5318	57	6781	85

BR24

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																									
		ZN 4										ZN 5					OVL										
		KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R	AMBI	R	BANS	R	CHHI	R	GODH	R	JHAB	R	UDAI	R	MEAN	R	MEAN	R
103	PRMH-189	8554	13	5348	56	10228	21	5633	28	8974	7	6443	58	5856	38	4426	98	4118	76	4255	103	4768	74	4978	92	7266	44
104	IN 8902	8114	25	5551	41	9166	48	7441	4	8900	14	7556	13	6413	17	5236	50	7837	9	5117	61	4860	63	6170	7	7492	18
105	IN 8602	8037	29	6497	10	10722	13	4742	59	8894	15	3500	117	5790	39	5237	49	7409	13	5864	25	6023	27	5637	30	7383	27
106	REH2013-6	4412	115	4164	109	9184	47	3675	104	5806	114	6945	32	5165	69	4477	96	3637	89	5940	22	4665	85	5138	72	6114	106
107	JH 13270	6093	94	4230	103	10473	18	6400	15	8555	29	7722	9	4967	81	5532	34	8732	3	5689	34	8368	3	6835	3	7777	5
108	BH 412095	7475	50	4948	74	8149	80	4662	64	7139	86	6503	50	7093	4	6243	8	5748	41	4695	81	5238	46	5920	13	7003	63
109	HKH423	4681	114	5368	54	6562	111	4215	83	6129	110	5890	77	5081	78	4778	78	3558	92	6105	15	3603	111	4836	100	6056	107
110	Sonam -27	5908	98	5240	59	7336	102	2691	120	6078	112	5335	91	4516	106	5127	61	4746	55	7328	2	4459	92	5252	64	6206	102
111	REH2013-2	4793	113	4742	83	8725	63	4143	85	6695	98	4558	106	4748	93	5349	44	5904	38	5326	50	4829	66	5119	75	6159	104
112	JKMH 4023	8019	30	4713	85	8706	66	4738	60	8191	47	6832	36	5318	65	6007	15	4725	56	4510	91	6979	9	5728	25	7447	21
113	AH 7005	4910	111	4567	94	6490	112	3533	110	6224	107	7666	11	4726	95	5226	53	5194	50	5160	57	5238	45	5535	37	6207	101
114	CSM-1	5890	99	6413	14	7878	88	3043	119	6731	95	5945	76	3787	118	4460	97	3520	94	5078	63	5359	41	4692	108	5970	109
115	CSM-2	4158	119	3890	114	7594	96	4089	91	5449	118	5666	85	4283	113	5114	62	3555	93	5628	38	4735	79	4830	101	5538	119
CHECKS																											
116	PMH1	7025	67	5059	68	8135	83	5762	22	7887	64	7279	26	5523	53	3522	119	1974	116	5673	35	6133	23	5017	84	7271	42
117	PMH3	7622	42	5147	64	7897	87	6145	16	7483	73	6666	42	5457	59	4842	74	6665	25	4776	78	5345	42	5625	31	7054	61
118	BIO-9681	5738	106	4156	110	8782	60	4861	51	6470	105	5780	80	6208	24	7557	1	4161	75	4341	99	4615	89	5443	43	6293	100
119	SeedTech 2324	6782	75	5150	63	8714	64	4078	92	7453	78	7389	22	5092	75	4556	92	4106	77	4120	106	5095	52	5060	80	6929	69
120	HM11	5817	102	4623	89	7570	97	5057	43	6546	101	5279	92	5457	58	6672	4	2232	115	3946	113	3509	113	4516	114	5795	115
Location Mean		7090		5227		8773		4864		7705		6183		5433		5107		4913		5162		5118		5319		6931	
C.D. (5%)		1336		1751		875		876		1491		1183		1901		1987		813		706		751		1224		1288	
C.V. (%)		11.71		20.82		6.2		11.2		-		11.9		21.76		24.19		10.28		8.5		9.12		-		-	
F (Prob)		0		0		0		0		0		0		0.001		0.093		0		0		0		-		-	
Plot Size		6		6		5.6		4.8		-		6		4.8		6		2.4		3.6		4.8		-		-	
AGRONOMY DATA																											
Sowing Date		4-07		17-07		14-07		30-06		-		8-07		13-07		2-07		17-07		8-07		3-07		-		-	
Harvest Date		29-10		25-11		12-11		14-11		-		-		18-10		12-11		6-11		4-11		10-11		-		-	
Irrigation Nos		-		-		7		10		-		-		-		-		-		-		1		-		-	
Fertilizer Applied N		200		120		150		150		-		120		150		120		100		120		120		-		-	
Fertilizer Applied P		60		60		75		75		-		60		80		60		50		60		90		-		-	
Fertilizer Applied K		50		40		40		75		-		40		-		40		-		60		-		-		-	

TABLE No. 1 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH1																										
		ZN 2					ZN 3					ZN 4					ZN 5					OV'L						
		KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	MEAN
1	GPS -03	-	-	-	-	-	-	-	-	-	11.8	-	-	20.6	9.8	44.4	-	-	-	3.5	-	-	42.3	124.3	-	-	-	-
2	DMRH1416	-	3.8	-	-	-	-	0.5	0.8	-	-	-	-	31.6	-	10.1	-	6.9	-	3.8	3	-	34.3	32.4	-	-	-	-
3	HT 51412607	-	0.4	-	-	-	-	-	29.8	-	29.1	-	-	15	-	2.7	22.7	13.4	-	1.1	5.4	6.6	46.1	392.2	5	-	33.4	3.2
4	GPS -02	-	-	-	3.9	-	-	-	12.6	-	3.3	-	-	31.7	-	21.6	-	-	-	-	-	-	33.6	173.1	0.7	-	-	-
5	SYN417750	-	-	2.7	3	-	-	-	8.1	-	-	-	-	22	-	6.3	-	10.1	-	-	-	16.9	69.2	95.6	-	-	1.7	-
6	DMRH1415	-	4.6	-	-	-	-	3.4	3.1	-	-	-	-	-	-	2.4	15.9	-	-	-	-	2.6	83.5	190.2	16.3	-	17.9	-
7	GH-110204	-	-	-	-	-	-	-	15.5	-	-	-	-	-	-	-	-	-	-	-	2.3	-	30.4	128	-	-	-	-
8	KH-1408	-	-	-	-	-	4.1	-	-	-	-	-	-	6.3	-	9.5	-	17.1	21.4	-	-	-	32.7	262.8	-	-	7.5	-
9	NMH-1247	-	-	-	-	-	-	-	48.1	-	3.3	-	7.4	33.4	31.7	22.3	7.4	20.8	3	18.8	-	21.3	39.4	33.9	6.9	-	4.7	3.5
10	HKH422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	-	-	-	-	-	49.5	-	-	-	-
11	VEH 14-1	-	-	-	1.9	-	-	23.7	22.1	-	29.2	1.6	5.2	10	-	6.6	-	24.2	-	1.5	9.9	16.1	9.9	253.1	-	-	17.8	2.7
12	PM 14102L	-	10	-	-	-	-	-	3.9	-	-	-	8.4	24.5	-	20.9	11	0.1	-	6.4	0.8	-	11.2	200.5	-	-	3	-
13	Gin 01	-	2.6	-	-	-	-	-	11.6	-	18.5	-	-	-	-	-	10.3	-	-	-	-	-	19.3	293.3	3.8	-	5.6	-
14	JH 13023	-	-	-	-	-	-	-	-	-	-	-	-	6.1	24.1	1.5	11.1	13.5	-	5.6	-	6.9	16.7	338.6	-	6	22.1	1.5
15	115-08-01	1.5	-	-	-	-	-	-	-	-	-	-	-	28.2	17.6	-	-	11	29.6	10	-	8.9	66.5	121	-	-	3.5	-
16	KF-110	0.9	-	-	-	-	6.1	-	21	-	-	-	-	-	-	-	16.4	-	-	-	-	-	60.3	38.1	-	-	-	-
17	PM 14106L	-	-	5.6	-	-	1.5	-	6.8	-	13.1	-	-	13	31.8	6.1	23.7	13.8	-	7.4	2.2	-	74.8	198.7	-	-	13.6	2.9
18	PM 14105L	5.6	4	-	2.8	2.2	-	16.7	27.7	-	-	-	10.7	21.1	12.7	5.7	-	17.7	-	6.9	-	-	28.5	261.3	-	8.3	8.9	3.3
19	Bio-069	6.7	-	-	-	-	-	13.7	-	-	-	-	-	13.2	-	11.7	-	37.2	1.4	6.2	-	13.7	31.7	15.9	-	-	-	-
20	PMSY -3	-	-	-	-	-	-	-	13.2	-	-	-	-	-	-	-	-	13.8	-	-	-	-	45.6	210.6	-	-	4.3	-
21	NT 8441	-	-	-	6.1	-	-	-	-	-	12.4	-	11.6	-	-	-	-	39.7	-	1.5	-	-	36.1	159.1	-	0.5	2.3	-
22	Proline-2404	-	-	6.6	7.4	-	19	-	22.7	-	-	-	8.5	16.9	-	19.6	-	18.8	-	3.6	10.7	-	56	135.6	-	-	8.2	1.5
23	siri -4555	-	-	3.1	12	-	11.8	-	-	-	-	-	-	22.6	-	14.6	16.4	24.3	0.7	5.1	-	-	76	139.2	-	-	2	-
24	JKMH 4242	0.4	-	0	-	-	8.9	-	-	-	-	-	2.1	8.2	21.4	2.9	4.7	25.5	-	8.8	-	-	65.1	173.1	-	21.8	15.4	-
25	GOLD 1166	18.1	2.4	-	-	1.8	16.4	40.6	9	-	34.2	11.6	-	-	2.4	7.7	9.7	11.8	-	-	-	25.8	44.9	48.7	-	-	-	0.9
26	VNR 4325	9.6	-	-	2.3	-	-	-	7.8	-	-	-	-	3.2	9.1	-	9.6	25.4	-	2.4	25.1	12.2	6.9	309.8	-	-	23	1.1
27	CMH12-671	-	-	-	7.7	-	2.1	-	28.7	-	14.6	-	-	1.5	-	3.3	27.9	22.1	13.9	3.3	3	-	17.5	120.3	-	2.7	5.2	-
28	HT 51412616	-	-	-	8	-	-	-	-	-	1.6	-	4.1	32.8	18.2	-	-	37.5	13.2	15	-	7.6	33.7	13.7	-	23.3	5.2	3.1
29	CMH10-555	-	0.9	-	13.1	-	-	-	7.9	24	16	4.5	14.5	8	12.4	21.6	22.2	0.6	-	11.1	0.8	-	60.9	198.6	8.5	-	17.9	8.1
30	CMH12-663	-	-	-	7.3	-	36.8	-	36.3	-	38.6	14.1	2.6	14.2	-	18.9	40.8	1.1	17	10.9	-	-	64.3	125.7	-	2.2	7.4	7.2
31	DKC9125	-	-	6.3	18.7	1.7	-	-	12.8	-	-	-	-	10.4	-	8.6	8.9	-	-	-	-	-	33.8	230.5	1.3	-	12.5	-
32	KMH-3981	-	-	7.9	4	-	-	30.2	-	-	-	-	-	47.2	39.4	9.7	10.6	5.5	-	13.1	-	-	64.6	352.6	0.3	12.1	17.3	6
33	DMH-192	-	-	-	-	-	-	-	-	-	-	-	26.1	43.7	9.2	20.5	-	7.6	-	12.9	-	21.1	50.3	124.7	-	-	10.6	2.1
34	DMRH1413	-	-	-	-	-	-	-	24	-	-	-	-	-	-	-	-	-	-	-	6.9	-	61.3	106.7	-	-	-	-
35	K-25 Gold	-	-	-	-	-	-	-	29.4	-	-	-	-	36.6	10.2	2.1	-	22.4	-	7.5	3	-	70.9	14.9	-	-	-	-

BR26

TABLE No. 1 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH1																										
		ZN 2				ZN 3				ZN 4				ZN 5				OV'L										
		KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	MEAN
36	IN 8569	6.6	-	30.4	-	2.5	-	-	23	-	-	-	28.5	22.2	16.2	37.3	13.6	41.2	-	23.5	-	-	48.6	35.7	-	-	-	4.7
37	GK-3118	-	-	-	-	-	-	-	26.4	-	5.4	-	6.7	11.5	3.1	22.8	40.9	-	6.2	10.4	-	-	54.1	77	-	-	-	-
38	DMRH1409	10.8	-	-	-	0.9	-	-	-	16.6	-	-	-	-	10.7	-	17.5	-	-	-	16.7	75.4	206.9	-	-	-	8.3	-
39	VNR 31862	6.5	-	-	0.5	-	15.2	15.2	13.2	-	-	-	-	25.9	-	-	-	6.5	-	-	-	-	31.8	-	-	-	-	-
40	MAH-957	-	-	-	-	-	-	-	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	27.4	71.4	-	-	-	-
41	DMH-7721	-	-	12.3	11.9	-	-	18.2	7.7	-	-	-	51.7	-	23.5	-	-	21.7	4.6	3.8	0.9	66.4	29.7	-	-	-	-	-
42	NT 8711	-	-	2.1	-	-	2.2	-	13.5	-	10.7	-	4.1	29.9	-	7.5	1	30.5	-	6.1	-	8.5	32	136.3	-	-	1.4	-
43	JH 13249	-	-	-	-	-	13.5	-	5.8	-	29.9	0.9	-	3.3	-	-	13.1	-	-	-	30.5	1.5	48.5	124.8	-	-	15.2	-
44	SAMH-225	-	-	-	-	-	-	-	6.1	-	-	-	-	-	-	-	16.3	12.5	-	-	-	-	11.1	125.1	-	-	-	-
45	JH 13041	-	-	-	-	-	9.2	-	-	-	-	-	-	7.6	-	-	-	16.8	-	-	-	8.2	54	51.8	-	-	4	-
46	JH 12063	-	-	10.8	-	-	13.6	-	9	-	7.3	-	-	5	33.2	25.5	1.9	9	-	5.6	-	-	30.7	248.2	-	-	1.2	0.1
47	JH 13094	-	-	-	-	-	-	-	21.3	3.4	8.7	-	-	-	-	7.2	-	-	-	-	-	4.1	30.7	223.7	-	22.9	21.7	-
48	RMH-726	-	-	-	1	-	8.1	-	-	-	31.1	-	-	31.2	-	-	30.3	15.3	-	4.5	-	-	41.5	91.1	6.9	-	1.6	-
49	JH 13044	10.4	-	-	-	-	-	-	27.7	13.6	30.1	2.2	-	28.3	-	2.4	-	30.1	-	0.8	-	-	52.2	131.9	-	-	-	-
50	PMSW 4	0.7	-	-	-	-	-	-	5.7	-	-	-	-	-	-	-	-	-	-	-	2.3	-	23.8	222.3	-	-	7.6	-
51	PM 14104L	-	-	0.5	-	-	-	-	3	-	-	-	1.9	15.1	26.8	12.5	38	4.1	-	9.3	-	-	52.3	118.4	8.1	-	6	-
52	CP.555	-	-	-	-	-	-	-	30.3	-	28	2.1	0.3	20.9	21.6	-	28.5	15.1	-	9.1	-	10.6	99.6	240.5	-	-	14.2	4
53	JH 13183	3.9	-	-	-	-	-	16.8	31.3	-	11.1	-	-	-	-	-	-	-	-	-	-	16.2	45.2	83	-	-	8	-
54	DMRH1411	-	0.7	-	-	-	22.4	3.7	3.7	-	-	1.1	-	-	-	-	-	-	-	-	-	0.3	58.2	75.1	-	3.2	10.8	-
55	JH 12150	-	-	1.5	-	-	-	5.1	17.4	-	7	0.1	-	23.5	-	3.5	24.9	6	12	3.7	-	-	15.4	227.4	-	9.5	8.7	0.5
56	Gin 02	4.5	-	2.3	-	-	-	-	8.6	-	5.8	-	-	5.4	-	5.8	2.1	1.3	-	-	-	3.6	39.2	213.1	-	-	7.1	-
57	BH 412140	-	-	-	-	-	-	-	-	-	12.2	-	-	8.6	-	-	19.2	9.9	-	-	-	-	46.7	274.7	-	-	3	-
58	NT 6325	-	-	6.9	-	-	-	-	-	-	11.4	-	-	23.3	4.1	33.2	19.1	22.2	11.3	12.9	12.2	-	65.3	18	1.9	-	6.2	2
59	DMRH1308	-	-	2.8	-	-	14.3	-	0.1	-	2.7	-	-	-	15.1	26.7	27.2	46.1	32.8	16.1	-	2.7	41.3	217.9	-	3.8	15.9	5.7
60	ADV 1190384	-	-	-	12.6	-	1.8	-	7.4	-	36.8	1.5	-	45.5	-	10	18.2	34.4	-	11.8	-	-	56.5	21.6	-	-	-	1.2
61	HT 51412373	-	-	-	-	-	-	19.4	-	-	-	-	6.1	6	15.7	-	27.8	33.3	-	9	-	6.9	16.3	284.2	-	4.3	9.3	-
62	SAFAL X-2	-	-	-	-	-	-	-	2.2	-	13.1	-	-	41.1	-	19.9	-	35	-	-	-	12.3	67.1	246.5	-	-	-	-
63	JH 13197	-	8.2	-	-	-	-	-	11.8	-	-	-	-	-	-	-	5.7	-	-	-	-	-	13.8	88.3	-	-	-	-
64	super 6768	-	-	-	-	-	-	-	1.8	-	-	-	-	26	8.7	1.8	13.3	7.8	-	4.5	-	1.3	68.1	97.2	-	-	0.4	-
65	JH 13278	-	-	7.8	-	-	-	-	4.7	-	6.3	-	-	9.2	30	13.5	-	19.9	-	7.9	-	3.6	75.6	118.5	-	39.3	11.4	2.4
66	IN 8570	-	-	-	0.1	-	1.3	16.1	31.8	-	-	1.1	-	35.5	16.8	15.6	0.2	18.7	11.7	12.9	-	30.4	40.8	86.6	-	-	-	0.8
67	GPMH-1111	-	-	-	-	-	-	-	9.6	-	-	-	-	-	-	-	-	-	-	-	-	23.1	46	82.2	4	-	10.7	-
68	JH 13248	-	-	-	-	-	-	-	26.7	-	-	-	-	-	0.5	-	8.6	-	-	-	-	-	65.9	-	18.4	-	5.7	-
69	SAMH-378	-	-	-	-	-	-	-	32.1	-	-	-	-	-	-	-	22.6	10.2	-	-	-	-	45.8	161.8	-	-	0.2	-
70	KH-2192	-	-	14.7	-	-	1	0.9	2.7	-	-	-	-	23	9.7	46.9	8.8	6.2	-	11.3	-	36.8	51.5	242.6	-	-	22.8	6.4

TABLE No. 1 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH1																										
		ZN 2				ZN 3				ZN 4				ZN 5				OV'L										
		KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	MEAN
71	ADV 0990293	-	-	-	41.8	7.2	0.3	-	-	-	-	15.1	34.2	1.9	10.7	-	27.5	-	10.6	-	27.7	47.4	323.5	-	-	15.4	6.1	
72	JH 13252	-	1.9	4.2	8.3	1.2	-	-	14.7	-	28.8	-	27.1	25.3	16.3	-	-	-	3.9	-	22.9	82.4	258	25.5	36.3	41.9	7.5	
73	NMH 1605	-	-	-	-	-	6.3	-	36.8	-	-	-	7.2	-	6.6	-	2.2	-	-	-	1.2	76.2	17.7	-	-	-	-	
74	GPMH-1101	-	-	-	-	-	-	-	5.6	-	-	-	-	-	2.9	-	-	-	-	-	11.4	-	6.6	131.4	11.3	-	8.6	-
75	PM 14101L	-	-	2	11.3	-	-	-	-	-	29	-	8.7	26.7	5.2	37.6	36.4	40.1	-	18.2	-	-	19.3	146.7	-	-	-	2.4
76	CMH12-667	-	-	-	-	-	-	2.1	21.4	-	22.3	4.7	-	23.9	4.1	-	9.5	7.1	-	2.9	0.8	8.6	9.1	205.7	2.7	-	16.4	3.5
77	BH 412141	-	-	-	-	-	-	-	16.3	-	-	-	-	-	-	-	46.6	19.9	-	-	-	14.6	35.8	233.8	9.1	-	10.2	-
78	Srikar 3033	-	-	-	-	-	-	-	21.3	-	16.9	-	4	29.6	21.1	-	6.3	-	-	1.9	-	3.9	55.4	333.3	1.6	9.1	20.3	-
79	JH 13282	-	-	-	-	-	-	6.2	23.2	9.3	6.5	2.8	-	-	7.2	17.2	16.7	-	-	-	-	16.2	57.4	266.4	12.6	51.5	38	1
80	IN 8903	-	-	19.8	-	-	-	-	19.1	-	-	-	15	-	1.6	7.8	10.3	42.8	-	7.9	-	8.4	27.2	142.8	31.6	-	14	0.2
81	GYH-0652	-	-	-	-	-	-	25	8.9	-	-	-	-	-	-	-	-	-	-	-	-	-	64.5	202.8	-	-	-	-
82	NMH 1008	-	-	-	4.9	-	-	-	14.6	-	-	-	-	16.1	9.2	21.1	3	9.4	-	2	-	-	37.7	107.6	3.1	-	-	-
83	GK-3124	-	-	6.9	-	-	1.9	-	15.5	-	48.8	7.2	-	26.5	-	-	-	14.6	4.8	3.6	-	25	43.6	50.7	1.6	-	7.3	1.5
84	ADV 0990296	-	-	5.2	-	-	-	2.6	19.9	-	24.3	-	-	24.4	6	31.7	7.5	20.8	26.7	15.5	-	23.2	34.4	262.7	12.3	0.9	23.8	6.2
85	CMH11-618	-	-	-	8.4	-	-	-	16.9	-	24.2	-	-	46.3	8.3	13.8	-	1.3	33.7	11.5	-	2.9	36.9	88.3	-	-	0.5	-
86	REH2013-5	-	-	-	-	-	-	-	21.3	-	-	-	-	0.3	-	-	-	10.4	-	-	-	-	33.5	98.6	-	-	-	-
87	DAS-MH-106	-	-	16.9	1.4	-	3.3	-	13.1	-	-	-	4.3	45.6	-	7.9	6.6	29.9	-	13.6	-	-	48.3	-	11.1	-	-	0.2
88	JH 13244	-	-	-	-	-	1.6	-	16.6	7.6	11.8	6.4	-	-	-	-	13.9	0.1	-	-	6.9	-	55.8	276.8	-	-	17.9	-
89	AMH-3436	-	3.3	-	5.7	-	9.8	8.8	10.1	-	3	2.1	-	6.1	4.7	-	9.4	31.6	-	0.8	2.3	-	21.8	190.6	6.2	-	4.6	0
90	IN 8603	-	-	20	-	-	1.8	20.4	25.4	-	-	0.1	-	5.1	-	33.4	30.4	27.6	-	7.2	3	8.6	16.3	56.4	6.1	-	-	0.9
91	JH 13230	-	-	-	8.3	-	3.3	-	10.9	-	22.6	-	-	25.3	1.9	-	-	13.7	-	3.9	-	14	68.5	125.6	26.9	-	11.1	1.6
92	DAS-MH-107	-	-	-	15.7	-	7.1	10.7	-	-	-	-	4.3	7.4	-	14.7	15.3	35.1	-	2.8	-	14.3	16.3	101.9	23.4	-	8.1	-
93	IAHM 2013-12	-	-	-	-	-	-	-	19.3	-	-	-	-	-	-	-	-	-	3.3	-	-	-	20.2	-	-	-	-	-
94	JH 12010	-	-	-	-	-	-	-	32.5	-	-	-	-	-	17.8	-	5.2	-	-	-	-	14.9	39.3	329	-	17.2	28.1	-
95	BH 412131	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	31.5	-	-	-	-	1.1	51.7	165.3	5.5	-	7.3	-
96	Super 1177	-	-	19.3	2.2	-	-	35.2	27.4	-	-	1.4	7.8	23.4	33.5	14.8	18.4	9.3	-	13	-	39.1	3.5	187.4	-	9.2	17.6	8
97	Super 777	-	-	-	-	-	-	-	14.5	-	16.7	-	-	31.9	-	2.6	11.4	-	-	-	-	-	19.9	138.4	-	-	-	-
98	GH-110145	-	-	-	-	-	-	-	12.7	-	-	-	-	-	-	-	-	-	-	-	-	-	65.3	16.2	-	-	-	-
99	JH 13045	-	-	-	4.4	-	-	7.7	-	-	0.5	-	-	33.9	33.2	-	24.8	39.1	-	9.1	-	-	49.9	170.3	-	-	5.1	-
100	JH 13037	-	-	-	-	-	-	-	21.4	-	-	-	-	-	-	-	-	-	12.5	24.7	-	-	93	85.9	-	-	4.2	-
101	MAH-974	-	-	-	-	-	-	-	32.3	-	-	-	-	-	-	-	9.1	6.7	-	-	-	-	55.9	165.9	-	-	6.6	-
102	BH 412096	-	1.5	-	-	-	26.9	-	11	-	-	-	-	0.9	-	4.9	-	-	-	-	-	-	78.9	126.3	-	-	6	-
103	PRMH-189	-	-	-	9.8	-	-	-	25.2	-	-	-	-	44.8	24.8	21.8	5.7	25.7	-	13.8	-	6	25.7	108.6	-	-	-	-
104	IN 8902	-	-	-	-	-	-	-	2.2	-	35.7	-	1.9	18.1	10.8	15.5	9.7	12.7	29.1	12.8	3.8	16.1	48.7	296.9	-	-	23	3
105	IN 8602	-	-	6	7.4	-	-	24.7	24.3	-	-	-	14.5	4.1	11.7	14.4	28.4	31.8	-	12.8	-	4.8	48.7	275.2	3.4	-	12.4	1.5

TABLE No. 1 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH1																											
		ZN 2				ZN 3				ZN 4				ZN 5				OV'L											
		KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	MEAN	
106	REH2013-6	-	4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.9	-	-	-	-	27.1	84.2	4.7	-	2.4	-
107	JH 13270	-	-	5.8	-	-	3.8	-	26.3	-	13.6	-	17.5	12.8	2.6	-	-	28.7	11.1	8.5	6.1	-	57.1	342.2	0.3	36.4	36.2	7	
108	BH 412095	-	-	-	-	-	10.9	-	-	-	13.1	-	-	-	-	6.4	-	0.2	-	-	-	28.4	77.3	191.1	-	-	18	-	
109	HKH423	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	-	-	-	35.7	80.2	7.6	-	-	-	
110	Sonam -27	-	-	-	-	-	-	6.8	-	-	-	-	-	-	-	-	3.6	-	-	-	-	-	45.6	140.4	29.2	-	4.7	-	
111	REH2013-2	-	-	-	-	-	-	-	21.4	-	-	-	-	-	-	-	-	7.2	-	-	-	-	51.9	199	-	-	2	-	
112	JKMH 4023	-	-	2.2	15.5	-	-	-	32.2	-	-	-	-	32.8	11.9	14.1	-	7	-	3.9	-	-	70.6	139.3	-	13.8	14.2	2.4	
113	AH 7005	-	-	-	-	-	-	-	10.1	-	3.2	-	-	-	-	-	-	-	-	-	5.3	-	48.4	163.1	-	-	10.3	-	
114	CSM-1	-	-	-	-	-	-	-	0.3	-	-	-	-	-	-	-	26.8	-	-	-	-	-	26.6	78.3	-	-	-	-	
115	CSM-2	-	-	-	-	-	-	-	32.2	-	-	-	-	-	-	-	-	-	-	-	-	-	45.2	80.1	-	-	-	-	
	CHECKS																												
116	PMH1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
117	PMH3	-	-	-	-	-	-	15.7	25.2	-	32.7	-	-	5.5	-	8.5	1.7	-	6.6	-	-	-	37.5	237.5	-	-	12.1	-	
118	BIO-9681	-	-	-	-	-	1.8	-	-	-	-	-	-	-	-	-	-	7.9	-	-	-	12.4	114.6	110.7	-	-	8.5	-	
119	SeedTech 2324	-	4	-	-	-	23.1	-	-	-	23.5	-	2.9	-	-	-	1.8	7.1	-	-	1.5	-	29.4	108	-	-	0.8	-	
120	HM11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89.5	13.1	-	-	-	-	

TABLE No. 1 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH3																										
		ZN 2					ZN 3					ZN 4					ZN 5					OV'L						
		KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	MEAN
1	GPS -03	-	-	2.2	-	-	3.1	-	-	7.7	-	-	-	14.3	89.5	33.1	-	2.8	-	9.1	-	-	3.5	-	14.3	-	-	-
2	DMRH1416	-	14.3	-	-	-	25.7	-	-	23.5	-	-	-	24.7	63.3	1.5	-	10.1	-	9.4	12.5	-	-	-	16.3	-	-	-
3	HT 51412607	-	10.5	0.9	-	-	4.3	-	3.7	27.3	-	2	-	9	57.5	-	20.6	16.8	-	6.6	15	7.9	6.2	45.8	24.8	8	19	6.4
4	GPS -02	4.2	-	-	17.5	4	46.1	-	-	-	-	-	-	24.9	45.4	12.1	-	-	-	3	-	-	-	-	19.6	-	-	-
5	SYN417750	4.1	-	11.7	16.5	6.8	-	-	-	7.4	-	-	-	15.6	58.6	-	-	13.4	-	1.9	-	18.3	23.1	-	8.7	-	-	-
6	DMRH1415	8.6	15.2	-	0.5	0.9	-	-	-	-	-	-	-	-	61.7	-	13.9	-	-	-	-	3.9	33.5	-	38.1	-	5.1	-
7	GH-110204	8.2	-	-	-	-	7.7	-	-	-	-	-	-	-	31.3	-	-	-	-	-	11.7	-	-	-	-	-	-	-
8	KH-1408	7	-	-	-	-	62.6	-	-	-	-	-	-	0.7	23.9	0.9	-	20.6	13.8	5.2	-	-	-	7.5	18	-	-	-
9	NMH-1247	5.7	-	6.5	-	-	44.3	-	18.3	0.4	-	-	14.6	26.4	127	12.7	5.5	24.4	-	25.2	-	22.7	1.3	-	27	-	-	6.7
10	HKH422	7.5	-	-	-	-	-	-	-	-	-	-	-	-	42	-	-	-	-	-	-	-	-	-	-	1.7	-	-
11	VEH 14-1	2.4	-	4.1	15.3	5.8	36.6	6.9	-	-	-	4.6	12.2	4.3	50.9	-	-	28	-	7	20	17.5	-	4.6	13	-	5.1	5.8
12	PM 14102L	0.9	21.1	1.7	-	4	-	-	-	2.8	-	-	15.6	18	61.4	11.5	9.1	3.2	-	12.2	10	-	-	-	5.8	-	-	-
13	Gin 01	1.2	13	-	0.5	2.8	17.5	-	-	9.6	-	-	-	-	39	-	8.4	-	-	-	-	-	-	16.5	23.3	-	-	-
14	JH 13023	13.1	-	4.1	4.4	3.8	42.3	-	-	32.4	-	-	5.3	0.6	114	-	9.2	16.9	-	11.3	-	8.2	-	29.9	11.9	21.6	8.9	4.6
15	115-08-01	19.4	-	-	-	1.2	45.9	-	-	-	-	-	3.7	21.5	103	-	-	14.3	21.5	15.9	-	10.2	21.1	-	-	1.8	-	1.9
16	KF-110	18.6	-	-	-	-	65.7	-	-	13.8	-	-	-	-	-	-	14.4	-	-	-	-	-	-	16.6	-	2.5	-	-
17	PM 14106L	17.1	-	14.8	11.7	10.2	58.5	-	-	-	-	-	-	7.1	128	-	21.6	17.2	-	13.2	11.6	-	27.1	-	2.8	-	1.3	6
18	PM 14105L	24.2	14.5	4.7	16.3	14.9	3.3	0.8	2	21.4	-	-	18.1	14.8	94.5	-	-	21.3	-	12.7	-	-	-	7	-	24.3	-	6.4
19	Bio-069	25.4	-	4.1	12.8	5	47.6	-	-	30.7	-	-	2.9	7.3	54.3	2.9	-	41.3	-	11.9	1.7	15.1	-	-	-	-	-	1.1
20	PMSY -3	11.2	-	-	-	-	24.8	-	-	-	-	-	-	-	16	-	-	17.3	-	-	-	-	5.9	-	-	6.6	-	-
21	NT 8441	-	-	-	20	-	48.8	-	-	25.2	-	-	19.1	-	52.9	-	-	44	-	7	-	-	-	-	-	15.3	-	-
22	Proline-2404	-	9.8	15.8	21.5	10.1	85.9	-	-	18.6	-	-	15.7	10.8	51.2	10.3	-	22.4	-	9.2	20.9	-	13.5	-	-	11.1	-	4.6
23	siri -4555	-	6.6	12.1	26.7	12.2	74.6	-	-	19.6	-	-	-	16.2	67.3	5.6	14.4	28.1	-	10.7	-	-	28	-	-	-	-	2.9
24	JKMH 4242	18	-	8.7	3.9	0.7	70.1	-	-	2.4	-	-	9	2.5	110	-	2.9	29.3	-	14.7	-	1	20.1	-	-	39.7	2.9	2.5
25	GOLD 1166	38.8	12.7	-	12	14.3	81.8	21.5	-	7.4	1.1	14.9	-	-	76.7	-	7.8	15.1	-	1.4	-	27.3	5.4	-	-	-	-	4
26	VNR 4325	28.8	-	-	15.8	7.7	44.8	-	-	-	-	-	-	-	88.3	-	7.7	29.1	-	7.9	36.7	13.5	-	21.4	-	-	9.7	4.2
27	CMH12-671	16.7	-	2.6	21.8	0.6	59.5	-	2.8	-	-	-	-	-	67.6	-	25.7	25.8	6.9	8.9	12.5	-	-	-	-	17.9	-	1.5
28	HT 51412616	9.4	-	4.5	22.2	9.7	40.9	-	-	11.6	-	-	11.1	25.8	104	-	-	41.7	6.2	21.2	1.7	8.9	-	-	-	41.5	-	6.3
29	CMH10-555	8.1	11.1	-	28	12.2	24	-	-	93.8	-	7.6	22.1	2.4	94	12.1	20.1	3.7	-	17.1	10	-	17	-	28.9	-	5.1	11.4
30	CMH12-663	2.8	3.8	4.6	21.4	8.9	114	-	8.8	13.2	4.4	17.5	9.4	8.2	70.9	9.6	38.3	4.1	9.7	16.9	-	-	19.5	-	10.6	17.2	-	10.5
31	DKC9125	13.2	-	15.5	34.3	14.3	11.1	-	-	4.1	-	-	2.8	4.7	30.6	0.1	7	-	-	1.6	5.8	-	-	-	20.4	-	0.3	1.5
32	KMH-3981	15.6	-	17.3	17.6	11.6	36.1	12.5	-	16.2	-	-	-	39.5	141	1.1	8.7	8.7	-	19.2	-	-	19.7	34.1	19.2	28.7	4.6	9.3
33	DMH-192	1.3	-	4.6	11.7	4.5	43.8	-	-	27.2	-	-	34.5	36.2	88.4	11	-	10.8	-	19	-	22.6	9.3	-	-	10.7	-	5.2
34	DMRH1413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.7	-	17.3	-	-	-	-

BR30

TABLE No. 1 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH3																											
		ZN 2					ZN 3					ZN 4					ZN 5			OV'L									
		KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	MEAN	
35	K-25 Gold	10.6	-	-	-	26.5	-	3.3	-	-	-	-	29.5	90.3	-	-	26.1	-	13.3	12.5	-	24.3	-	1.4	2.5	-	-		
36	IN 8569	25.3	-	41.8	5.9	15.2	6.5	-	-	1.9	-	-	37	15.8	101	26.5	11.7	45.5	-	30.2	-	-	8.1	-	-	-	-	7.9	
37	GK-3118	9.2	-	-	3.6	-	29.2	-	0.9	12.1	-	-	13.8	5.7	77.9	13.2	38.5	-	-	16.3	-	-	12.1	-	4.3	-	-	-	
38	DMRH1409	30.2	9.4	-	-	-	57.6	-	-	33	-	-	-	50.1	2	-	21	-	-	-	18.1	27.5	-	-	-	-	-	-	
39	VNR 31862	25.1	-	-	13.7	1.1	80	-	-	39	-	0.3	-	19.3	43	-	-	9.7	-	-	-	-	-	-	-	-	-	-	
40	MAH-957	10.6	-	-	-	-	-	-	-	-	-	-	-	30.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
41	DMH-7721	2.3	-	22.1	26.6	8.1	41.4	2.2	-	41.2	-	2.3	-	43.8	56	13.8	-	-	14.1	10.2	13.4	2.1	21	-	-	-	-	2.6	
42	NT 8711	-	-	10.9	13.1	4	59.6	-	-	25	-	-	11	23.2	10.3	-	-	34.4	-	11.8	-	9.8	-	-	-	-	-	2.6	
43	JH 13249	-	-	-	-	-	77.2	-	-	-	-	3.9	-	-	63.2	-	11.2	-	-	-	42.5	2.7	8	-	5.4	-	2.8	-	
44	SAMH-225	6.1	-	-	-	-	38.4	-	-	-	-	-	-	41.2	-	14.3	15.9	-	-	-	-	-	-	-	8.2	-	-	-	
45	JH 13041	7.8	-	-	-	-	70.5	-	-	7.1	-	-	-	2	62.7	-	-	20.3	-	-	-	9.5	12	-	1	3.7	-	-	
46	JH 12063	-	-	20.4	2.5	4.8	77.4	-	-	36.7	-	1.8	-	-	130	15.7	0.2	12.3	-	11.3	-	-	-	3.2	-	9.9	-	3.2	
47	JH 13094	-	-	-	4.5	-	11.8	-	-	61.6	-	-	-	-	51	-	-	-	-	-	4.2	5.4	-	-	13.1	41	8.5	-	
48	RMH-726	12.5	-	8.6	14.2	7.4	68.8	-	-	3	-	-	-	24.3	60.3	-	28	18.8	-	10.1	-	-	2.9	-	27	-	-	2.5	
49	JH 13044	29.7	-	-	12.9	6	-	-	2	77.6	-	5.3	-	21.6	35.5	-	-	34	-	6.3	-	-	10.7	-	5.2	-	-	1	
50	PMSW 4	18.4	-	-	-	-	2.8	-	-	-	-	-	-	-	7.5	-	-	-	-	-	11.7	-	-	-	4.5	-	-	-	
51	PM 14104L	14.1	-	9.3	0.7	4	-	-	-	30.3	-	-	8.7	9.1	119	3.7	35.7	7.2	-	15.2	-	-	10.8	-	28.5	10.2	-	1.6	
52	CP.555	4.7	0.6	-	12.8	2.8	38.1	-	4	32	-	5.2	6.9	14.6	110	-	26.3	18.6	-	15	-	12	45.2	0.9	15	-	1.8	7.2	
53	JH 13183	22.1	3.5	-	-	1.3	12.4	1	4.9	28.6	-	2.9	-	-	59.8	-	-	-	-	-	-	17.6	5.6	-	18	12.7	-	-	
54	DMRH1411	9	10.8	-	2.1	-	91.1	-	-	39.3	-	4.1	-	-	54.9	-	-	-	-	-	5	1.5	15	-	14.1	18.5	-	-	
55	JH 12150	2.2	-	10.3	0.3	2	36	-	-	40.9	-	3.1	-	17	40.2	-	22.7	9.2	5	9.3	-	-	-	-	14.2	25.6	-	3.6	
56	Gin 02	22.8	-	11.1	8.5	6.7	15.4	-	-	42.6	-	-	-	-	54.1	-	0.4	4.4	-	-	7.5	4.8	1.2	-	-	-	-	-	
57	BH 412140	7	-	-	-	-	51.3	-	-	21.1	-	-	-	2.9	54.3	-	17.2	13.2	-	-	-	-	6.7	11	15.7	-	-	-	
58	NT 6325	16.5	-	16.2	-	5.1	44.6	-	-	24.2	-	-	-	16.9	79.7	22.8	17.1	25.9	4.4	19	22.5	-	20.2	-	21.1	-	-	5.1	
59	DMRH1308	16.9	-	11.8	-	4.2	78.5	-	-	6.2	-	-	-	98.8	16.8	25.1	50.6	24.5	22.3	5.9	3.9	2.8	-	-	19.1	3.3	9		
60	ADV 1190384	-	-	8.6	27.4	8.7	59	-	-	20.9	3.1	4.5	1.9	37.9	40	1.4	16.2	38.4	-	17.8	-	-	13.8	-	2.9	-	-	4.3	
61	HT 51412373	-	-	-	-	-	15.3	3.2	-	-	-	-	-	13.2	0.4	99.8	-	25.6	37.3	-	14.9	-	8.2	-	13.8	-	19.7	-	0.1
62	SAFAL X-2	4.9	-	3.5	8.4	0.9	37.5	-	-	14.9	-	-	-	33.8	8	10.5	-	39.1	-	0.5	-	13.7	21.5	2.7	5.9	-	-	-	
63	JH 13197	14.5	19.2	-	4.4	1.4	24.9	-	-	41.5	-	-	-	-	55	-	3.9	-	-	-	-	-	-	-	-	-	-	-	
64	super 6768	4.5	-	-	-	-	27.6	-	-	-	-	-	-	19.4	87.7	-	11.3	11.1	-	10.1	-	2.5	22.2	-	-	-	-	-	
65	JH 13278	11.8	-	17.2	13	9.7	46.5	-	-	7.8	-	-	-	3.5	125	4.6	-	23.6	-	13.7	-	4.8	27.7	-	-	59.8	-	5.5	
66	IN 8570	8.2	-	-	13.2	3	58.2	0.3	5.3	12.7	-	4.1	-	28.5	102	6.6	-	22.3	4.8	19	-	32	2.4	-	-	-	-	3.9	
67	GPMH-1111	16.9	-	-	-	-	40.3	-	-	-	-	-	1.8	-	58.4	-	-	-	-	-	1.7	24.6	6.2	-	23.5	-	-	-	
68	JH 13248	-	-	-	12.2	1.4	10.7	-	1.2	9.4	-	-	-	-	73.6	-	6.8	-	-	-	-	0.4	20.6	-	40.6	13.2	-	-	

TABLE No. 1 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH3																										
		ZN 2					ZN 3					ZN 4					ZN 5		OV'L									
		KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	MEAN
69	SAMH-378	-	-	-	10.5	-	30	-	5.5	33.6	-	-	-	-	59.4	-	20.5	13.5	-	-	-	-	6	-	7.9	-	-	-
70	KH-2192	4.9	-	24.7	3.2	6.3	57.8	-	-	37.1	-	1	-	16.5	89.4	35.5	7	9.4	-	17.3	-	38.4	10.2	1.5	8.4	12.9	9.6	9.7
71	ADV 0990293	14.5	3.8	-	60.4	20.4	56.6	-	-	10	-	-	22.8	27.2	76	2	-	31.3	-	16.5	-	29.3	7.2	25.5	10	-	2.9	9.4
72	JH 13252	4.9	12.2	13.2	22.5	13.7	25.1	-	-	-	-	-	-	20.4	116	7.2	-	1.3	-	9.5	4.2	24.4	32.7	6.1	49.1	56.4	26.5	10.8
73	NMH 1605	14.5	8.4	-	0.8	-	66.1	-	9.2	19.6	-	-	-	1.6	68.6	-	-	5.3	-	-	-	2.5	28.2	-	-	-	-	-
74	GPMH-1101	4.5	-	-	-	-	7.9	-	-	8	-	-	-	-	59.5	-	-	-	-	-	21.7	-	-	-	32.2	9.3	-	-
75	PM 14101L	9	-	10.8	26	10.7	50.8	-	-	-	-	-	16	20.1	81.6	26.8	34.1	44.4	-	24.6	-	-	-	-	5	-	-	5.5
76	CMH12-667	5.6	1.2	4.3	11.5	6	45.3	-	-	39.3	-	7.8	1.5	17.5	79.7	-	7.6	10.3	-	8.4	10	9.9	-	-	22	12.7	3.9	6.7
77	BH 412141	16.9	3.5	-	-	1.3	24.9	-	-	27.2	-	-	-	-	62.5	-	44.1	23.6	-	4.8	-	16	-	-	29.6	-	-	-
78	Srikar 3033	-	-	-	-	-	55	-	-	12.5	-	-	10.9	22.9	109	-	4.5	-	-	7.4	-	5.2	13	28.4	20.7	25.2	7.3	0.9
79	JH 13282	-	-	-	-	-	17.5	-	-	70.8	-	5.8	-	-	85	8	14.7	-	-	-	0	17.6	14.5	8.5	33.8	73.8	23.1	4.1
80	IN 8903	-	-	30.3	6.6	-	53.3	-	-	-	-	-	22.6	-	75.4	-	8.4	47.1	-	13.7	-	9.7	-	-	56.3	-	1.7	3.3
81	GYH-0652	-	-	-	-	-	3.9	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.7	-	-	-	-	-
82	NMH 1008	-	-	5.7	18.7	3.2	12.1	-	-	-	-	-	-	10	88.5	11.7	1.3	12.7	-	7.5	-	-	0.1	-	22.5	-	-	-
83	GK-3124	-	-	16.2	10.8	1.6	59.1	-	-	25.7	12.1	10.4	4.6	19.9	57.7	-	-	18	-	9.2	4.2	26.5	4.4	-	20.7	-	-	4.7
84	ADV 0990296	-	-	14.3	12.1	2.2	4.8	-	-	5.5	-	-	6.3	17.9	83	21.4	5.6	24.4	18.9	21.7	-	24.7	-	7.4	33.4	15.8	10.4	9.5
85	CMH11-618	-	-	-	22.7	-	4.5	-	-	-	-	-	-	38.7	86.9	4.9	-	4.4	25.4	17.6	-	4.2	-	-	-	-	-	0.3
86	REH2013-5	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	13.7	-	-	-	-	-	-	16	-	-	-
87	DAS-MH-106	0.5	-	27.1	14.7	6.6	61.4	-	-	30.8	-	-	11.3	38	65.7	-	4.8	33.9	-	19.8	-	-	7.9	-	31.9	-	-	3.3
88	JH 13244	-	-	-	3.3	-	58.6	-	-	68.2	-	9.6	-	-	28.2	-	12	3.1	-	-	16.7	-	13.3	11.6	7.7	-	5.1	-
89	AMH-3436	-	13.7	-	19.6	6	71.5	-	-	28.6	-	5.1	-	0.6	80.8	-	7.5	35.6	-	6.2	11.7	-	-	-	26.1	-	-	3.1
90	IN 8603	-	6.5	30.5	-	6.1	59	4.1	0.1	26.8	-	3.1	-	-	61.3	23	28.2	31.4	-	13	12.5	9.9	-	-	26	-	-	4
91	JH 13230	-	9.1	6.9	22.6	8.1	61.3	-	-	3.8	-	-	5.1	18.8	75.8	-	-	17.2	-	9.5	-	15.4	22.6	-	50.8	-	-	4.8
92	DAS-MH-107	-	-	-	30.9	3.8	67.4	-	-	19.1	-	-	11.3	1.8	19.1	5.8	13.4	39.2	-	8.3	-	15.6	-	-	46.5	-	-	2.2
93	IAHM 2013-12	-	-	-	6.8	-	20.7	-	-	2.5	-	-	-	-	-	-	-	6.4	-	-	-	-	-	-	-	-	-	-
94	JH 12010	-	-	-	5.2	-	35.7	-	5.8	41.1	-	-	-	-	103	-	3.4	-	-	-	-	16.3	1.3	27.1	7	34.5	14.3	1
95	BH 412131	-	-	-	-	-	32.3	-	-	19	-	-	-	-	41	-	29.3	2.7	-	-	-	2.3	10.3	-	25.3	-	-	-
96	Super 1177	-	7.8	29.7	15.7	12.1	31.9	16.9	1.7	45.4	-	4.4	15	17	131	5.8	16.4	12.6	-	19.1	-	40.7	-	-	9.8	25.4	4.9	11.3
97	Super 777	-	-	-	9.3	-	30.7	-	-	3.9	-	-	-	-	25	34.3	-	9.5	-	-	-	0.7	-	-	0.7	-	-	-
98	GH-110145	9.7	3.5	-	-	-	-	-	-	11.1	-	-	-	-	53.5	-	-	-	-	-	-	-	20.2	-	7.9	-	-	-
99	JH 13045	14.8	-	-	18.2	4.7	28.6	-	-	1	-	-	-	26.9	130	-	22.6	43.3	-	15	5	-	9	-	-	-	-	3
100	JH 13037	0.4	-	-	-	-	-	-	-	27.3	-	-	4.8	-	32.1	-	-	15.9	16.9	2.7	-	-	40.3	-	-	7	-	-
101	MAH-974	-	1.4	-	-	-	55.6	-	5.7	-	-	-	-	-	72.6	-	7.2	9.9	-	-	-	0.3	13.4	-	6	-	-	-
102	BH 412096	2.5	11.7	-	-	-	98.3	-	-	-	-	-	-	-	64.2	-	-	-	-	-	0.9	-	30.1	-	13.4	-	-	-

TABLE No. 1 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH3																											
		ZN 2					ZN 3					ZN 4					ZN 5				OV'L								
		KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	MEAN	
103	PRMH-189	12.1	3.3	-	24.2	8.8	36.8	-	-	-	-	-	-	37.2	115	12.2	3.9	29.5	-	19.9	-	7.3	-	-	-	-	-	3	
104	IN 8902	-	-	6.8	-	-	56	-	-	-	2.2	-	8.7	12	91.3	6.5	7.9	16.1	21.1	18.9	13.3	17.5	8.1	17.6	7.1	-	9.7	6.2	
105	IN 8602	-	-	15.2	21.5	0.5	-	7.8	-	-	-	-	22.1	-	92.9	5.4	26.2	35.8	-	18.9	-	6.1	8.1	11.2	22.8	12.7	0.2	4.7	
106	REH2013-6	9.4	15.2	-	10.9	-	27.6	-	-	1.4	-	-	-	-	-	-	-	16.3	-	-	4.2	-	-	-	24.4	-	-	-	
107	JH 13270	-	8.5	15	-	1.6	62.2	-	0.9	25.8	-	1.7	25.4	6.9	77.1	-	-	32.6	4.1	14.3	15.8	-	14.2	31	19.1	56.6	21.5	10.2	
108	BH 412095	-	-	1.1	3.2	-	73.2	-	-	35.3	-	-	-	-	52.9	-	-	3.2	-	-	-	30	28.9	-	-	-	5.2	-	
109	HKH423	8	-	-	10.2	-	6	-	-	23.2	-	-	-	-	28.3	-	4.3	-	-	-	-	-	-	-	27.8	-	-	-	
110	Sonam -27	10.4	0.9	-	-	-	34.9	-	-	28.5	-	-	-	-	23.1	-	1.8	-	-	-	-	-	5.9	-	53.4	-	-	-	
111	REH2013-2	-	-	-	-	-	36.1	-	-	15.8	-	-	-	-	57.7	-	-	10.5	-	-	-	-	10.5	-	11.5	-	-	-	
112	JKMH 4023	-	-	11.1	30.7	9.9	55.6	-	5.5	39.4	-	-	-	25.9	93.1	5.2	-	10.2	-	9.5	2.5	-	24	-	-	30.6	1.8	5.6	
113	AH 7005	11.7	-	-	-	-	-	-	-	-	-	-	-	-	42.3	-	-	-	-	-	15	-	7.9	-	8.1	-	-	-	
114	CSM-1	-	4.7	-	-	-	-	-	-	-	-	-	-	-	31.9	-	24.6	-	-	-	-	-	-	-	6.3	0.3	-	-	
115	CSM-2	-	-	-	-	-	10.1	-	5.6	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	-	17.8	-	-	-	
	CHECKS																												
116	PMH1	17.5	10.1	8.7	13.1	12.4	56.2	-	-	56.3	-	3	6.7	-	72.6	-	-	3	-	5.4	9.2	1.2	-	-	18.8	14.7	-	3.1	
117	PMH3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
118	BIO-9681	-	2.4	-	-	-	59	-	-	-	-	-	-	-	17.3	-	-	11.2	-	-	-	13.8	56.1	-	-	-	-	-	
119	SeedTech 2324	12	14.5	-	-	1.8	92.2	-	-	1.2	-	0.5	9.7	-	50.9	-	0.1	10.4	-	-	10.8	-	-	-	-	-	-	-	
120	HM11	-	-	-	-	-	15.8	-	-	5	-	-	-	-	12.9	-	-	-	-	-	-	0	37.8	-	-	-	-	-	

TABLE No. 1 (Cont..)

SI 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	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	MEAN
1	GPS -03	-	-	31.8	-	2.7	-	14.3	-	36	39.1	3.6	10.3	53.9	61.6	76.8	21.4	-	-	26.2	-	-	-	6.4	25.8	14.1	-	7.8
2	DMRH1416	-	11.6	4	-	1	-	28.9	7.7	56	18.5	11.6	22.1	67.9	39.2	34.8	15.8	-	7.1	26.5	29.8	-	-	-	27.9	4.4	-	8.6
3	HT 51412607	2.7	8	30.2	-	7.6	-	26.1	38.7	60.8	60.6	23	16.3	46.8	34.3	25.7	49.4	5	-	23.3	32.7	-	-	134	37.3	25.1	22.9	19.2
4	GPS -02	15.4	-	19.6	22.9	13.7	-	23	20.3	10.8	28.5	12.7	4.9	68.1	24	48.8	-	-	12.5	19.1	-	-	-	29.6	31.6	-	-	9.8
5	SYN417750	15.3	-	44	21.9	16.8	-	-	15.5	35.7	-	-	-	55.7	35.2	30.1	8.3	2	11.5	17.8	-	4	-	-	19.6	-	-	7.4
6	DMRH1415	20.4	12.5	4.2	5.2	10.4	-	32.7	10.1	17.1	23.7	-	-	13.2	37.8	25.3	41.1	-	-	3.9	6.7	-	-	37.7	52	5.2	8.6	5.6
7	GH-110204	19.9	-	-	-	-	-	-	23.4	6.1	-	-	-	-	12	-	-	-	-	-	-	-	-	8.2	-	-	-	-
8	KH-1408	18.5	-	12.8	-	-	2.3	26.4	2.3	14.9	0.5	7.4	21.8	35.6	5.6	34.1	2.8	8.5	43.9	21.6	0.9	-	-	72.2	29.8	-	-	8.1
9	NMH-1247	17.1	-	37.3	-	7.7	-	8.3	58.2	26.8	28.5	20.4	41.7	70.2	93.8	49.8	30.7	11.9	22.1	44.8	11.5	7.9	-	-	39.7	3.4	-	19.6
10	HKH422	19.2	-	-	-	-	-	-	6.4	21.4	20.9	-	-	14.5	21.1	-	23.7	-	-	1.3	15.3	-	-	-	5.5	17.8	-	-
11	VEH 14-1	13.4	-	34.3	20.6	15.7	-	58.7	30.5	18.6	60.7	26.1	38.7	40.4	28.6	30.6	11.2	15.1	-	23.8	38.4	3.3	-	67.5	24.3	4.6	8.6	18.6
12	PM 14102L	11.8	18.3	31.2	-	13.7	-	-	11	29.9	7.4	-	43	58.9	37.6	48.1	35.1	-	-	29.7	26.9	-	-	42.6	16.3	-	-	10.9
13	Gin 01	12.2	10.4	25.8	5.1	12.4	-	14.7	19.2	38.6	47.4	13.8	14.6	-	18.5	13.7	34.3	-	-	0.6	-	-	-	86.7	35.7	-	-	5.2
14	JH 13023	25.4	-	34.2	9.2	13.5	-	9.9	1.6	67.4	-	8.2	30.2	35.4	82.7	24.2	35.2	5.2	-	28.7	7.7	-	-	108	23.2	40.9	12.5	17.2
15	115-08-01	32.3	-	23.5	-	10.7	-	24.2	2.6	23.3	13.4	7.8	28.2	63.6	73.1	15.2	12	2.8	53.6	34.1	-	-	-	4.9	5.9	17.9	-	14.2
16	KF-110	31.4	-	18.8	-	3.5	4.3	-	29.3	43.8	14.8	14.6	-	21.6	-	21.1	41.7	-	-	-	10.5	-	-	-	12.8	0.2	-	-
17	PM 14106L	29.8	-	48.1	16.9	20.5	-	-	14.1	16.2	40.6	13.3	16.9	44.2	94	29.9	50.6	5.4	-	30.9	28.8	-	-	41.7	13.1	1.6	4.7	18.8
18	PM 14105L	37.6	11.8	35.1	21.7	25.6	-	49.7	36.4	53.5	15.2	15.5	46	54.6	65.8	29.4	-	9	0.3	30.3	-	-	-	71.4	1.7	44	0.4	19.3
19	Bio-069	38.9	-	34.2	18	14.8	-	45.8	3.4	65.2	5.3	15.9	27.3	44.4	31.6	36.7	10.4	27.1	20.2	29.4	17.3	1.2	-	-	-	2.8	-	13.3
20	PMSY -3	23.2	-	-	-	-	-	-	20.9	6.9	-	-	-	-	-	1.7	1.5	5.4	-	-	-	-	-	47.4	-	23.5	-	-
21	NT 8441	6.3	-	13.3	25.6	6.6	-	5.9	5.8	58.2	39.8	16.7	47.3	13.9	30.3	17.9	6.2	29.5	-	23.8	-	-	-	23	-	33.5	-	11.2
22	Proline-2404	-	7.2	49.4	27.1	20.3	17	-	31.1	49.8	15.3	19.3	43.1	49.1	28.9	46.5	6	10.1	-	26.2	39.4	-	-	11.8	-	28.7	-	17.2
23	siri -4555	10.3	4.2	44.6	32.6	22.6	9.8	19.1	2.7	51.2	-	10.3	-	56.5	42.7	40.3	41.8	15.2	19.3	28.1	5.7	-	-	13.5	-	3.8	-	15.4
24	JKMH 4242	30.8	-	40.2	8.7	10.1	7	-	-	29.5	-	1	34.7	38	78.7	26	27.5	16.3	9.8	32.6	12.5	-	-	29.6	-	61.8	6.3	14.9
25	GOLD 1166	53.8	10.1	23.2	17.2	25	14.4	80.4	16.4	35.7	66.9	38.5	3.6	17.2	50.7	31.9	33.5	3.5	-	17.2	-	11.9	-	-	-	2.1	-	16.5
26	VNR 4325	42.7	-	22.1	21.1	17.7	-	13.5	15.1	14	6.3	5.9	10.9	31.7	60.6	17.2	33.4	16.1	16.2	24.8	57.6	-	-	94.5	9.4	10.6	13.3	16.8
27	CMH12-671	29.3	-	32.3	27.5	10	0.4	2.7	37.5	11.3	42.5	18.6	5.6	29.6	42.9	26.5	55.7	13.1	35.1	25.9	29.8	-	-	4.5	4.1	36.5	-	13.7
28	HT 51412616	21.3	-	34.8	27.9	19.9	-	4.3	2.6	41.1	26.4	9.1	37.4	69.4	74	21.4	9.9	27.4	34.2	40.2	17.3	-	-	-	2	63.9	-	19.1
29	CMH10-555	19.8	8.5	27.2	33.9	22.7	-	20.9	15.3	145	44.3	29.6	51	37.8	65.4	48.9	48.8	-	17.9	35.4	26.9	-	-	41.7	41.8	7.7	8.6	24.8
30	CMH12-663	13.9	1.4	34.8	27.1	19	34.5	7	45.6	43	72.4	41.6	35.3	45.7	45.7	45.6	71.3	-	38.7	35.2	-	-	-	7.1	21.7	35.8	-	23.8
31	DKC9125	25.4	-	49	40.5	24.9	-	5	20.5	31.6	20.4	4.9	27.1	40.9	11.3	32.9	32.6	-	4.9	17.5	22.1	-	-	56.8	32.4	6.7	3.7	13.7
32	KMH-3981	28.1	-	51.3	23.1	22	-	67	-	46.8	20.4	14.4	18	87.8	105	34.3	34.7	-	2	37.9	-	-	-	115	31.1	49	8.1	22.5
33	DMH-192	12.2	-	35	16.9	14.3	-	14.3	3.1	60.8	-	8.6	66.3	83.3	60.7	47.5	5.9	-	-	37.6	8.6	7.7	-	6.6	8	28.2	2	17.9
34	DMRH1413	5.5	-	-	-	-	-	-	32.5	12.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	2.9	-	-

BR34

TABLE No. 1 (Cont..)

SI 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	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	MEAN
35	K-25 Gold	22.5	-	-	-	-	-	19.9	38.3	17.2	0.9	7.6	14.1	74.3	62.2	25	14	13.4	14.8	31	29.7	-	-	-	11.6	18.8	-	9.3
36	IN 8569	38.9	-	82.8	10.8	26	-	-	31.4	28.7	19.6	4.1	69.4	55.9	71	68.1	38.3	30.8	10.4	50.6	8.6	-	-	-	5.3	4.6	-	20.9
37	GK-3118	21	-	23.1	8.4	2.2	-	1.5	35	41.7	31.1	14.3	40.7	42.2	51.7	50.3	71.5	-	25.9	34.6	-	-	-	-	14.8	-	-	10.4
38	DMRH1409	44.3	6.8	12.3	-	8.3	-	6.8	1.6	68.1	45.1	20	21	15.4	28	35.5	4.9	8.8	-	15.5	11.5	3.8	-	45.7	-	-	-	10.9
39	VNR 31862	38.7	-	0.4	19	10.5	13.2	47.9	20.9	75.6	-	20.9	-	60.6	21.9	1	-	-	-	7.5	6.7	-	-	-	8.8	-	-	2.4
40	MAH-957	22.5	-	-	0.9	-	-	12	8	17	-	-	-	13.5	11.3	-	1.6	-	-	-	13.4	-	-	-	5.5	-	-	-
41	DMH-7721	13.4	-	57.5	32.4	18.2	-	51.7	15	78.4	21.7	23.3	7.7	93.6	33	51.1	-	-	44.2	27.5	30.8	-	-	-	0.9	-	-	15.1
42	NT 8711	9.7	-	43.1	18.4	13.8	0.4	-	21.3	57.9	37.7	18.7	37.3	65.8	-	31.7	23	20.9	17.8	29.3	14.4	-	-	12.2	-	-	-	15
43	JH 13249	9	-	12.3	-	3.4	11.5	22.9	13	21.4	61.6	25.2	-	31.8	39.1	14.4	37.7	-	-	8.8	64.4	-	-	6.7	16	5.6	6.2	9.9
44	SAMH-225	17.5	-	-	3.6	-	-	7.8	13.3	23.1	24	8.3	-	20.7	20.3	22	41.6	4.2	-	11.5	-	-	-	6.8	19	-	-	1.3
45	JH 13041	19.5	-	-	-	-	7.3	0.3	0.4	35.3	23.9	12.2	9.5	37.3	38.7	20.1	16.9	8.2	-	15.1	13.4	-	-	-	11.1	20.1	-	4.1
46	JH 12063	8.6	-	55.3	7.2	14.5	11.6	-	16.5	72.8	33.5	22.7	21.5	34	96.1	53.6	24	1	-	28.7	-	-	-	65.2	-	27.3	-	15.7
47	JH 13094	10.4	-	23.8	9.3	6.7	-	-	29.6	104	35.2	18.2	16.8	-	28.7	31.3	-	-	2.3	3.7	20.1	-	-	53.6	24.4	63.4	12.1	9.2
48	RMH-726	24.7	-	40	19.5	17.4	6.2	-	-	30.2	63.1	16.7	17.6	67.3	36.6	9.2	58.6	6.8	6.2	27.3	12.5	-	-	-	39.7	-	-	14.9
49	JH 13044	43.7	-	5.9	18.1	15.9	-	13.9	36.4	124	61.9	26.9	17.9	63.8	15.5	25.3	-	20.5	2.9	22.9	-	-	-	10	15.7	6.6	-	13.2
50	PMSW 4	31.2	-	-	-	-	-	11.4	12.9	-	-	-	-	-	-	-	14.6	-	-	-	28.8	-	-	53	15	-	-	-
51	PM 14104L	26.4	-	40.9	5.4	13.7	-	-	10.1	64.7	16.8	0.6	34.4	46.8	86.7	37.7	68	-	-	33.3	-	-	-	3.6	41.3	27.6	-	13.9
52	CP.555	16	-	17.6	18.1	12.4	-	5.1	39.2	66.9	59.2	26.7	32.2	54.3	78.9	7.8	56.4	6.6	7.4	33	-	-	-	61.6	26.5	0.1	5.2	20.1
53	JH 13183	35.3	1.1	23.2	-	10.7	-	49.9	40.3	62.5	38.2	24	-	21.7	36.3	4.9	15	-	-	2.8	-	3.4	-	-	29.8	30.6	-	8
54	DMRH1411	20.8	8.3	-	6.9	8.4	20.2	33	10.8	76.1	7.1	25.5	9.6	-	32.1	12.1	15.6	-	-	1	21.1	-	-	-	25.6	37.2	2.1	7.7
55	JH 12150	13.2	-	42.2	5	11.5	-	34.9	25.4	78.1	33.1	24.2	17.3	57.5	19.5	26.8	52	-	32.8	26.4	5.7	-	-	55.4	25.6	45.5	0.2	16.1
56	Gin 02	36.1	-	43.3	13.5	16.6	-	12.4	16	80.3	31.6	15.1	5.6	34.5	31.4	29.6	24.3	-	-	12.3	24	-	-	48.6	-	4.3	-	10.7
57	BH 412140	18.6	-	8.3	3.4	5.4	-	17.2	6.5	53.1	39.6	18.2	-	38.5	31.5	17.4	45.1	1.8	-	15.3	-	-	-	77.8	27.3	5	-	8.6
58	NT 6325	29.1	-	49.9	-	14.9	-	-	-	56.9	38.6	12.4	19	57.3	53.2	63	45	13.2	31.9	37.6	41.3	-	-	-	33.2	8.1	-	17.8
59	DMRH1308	29.6	-	44.2	-	13.9	12.3	21.5	6.9	34.3	27.8	18.9	17.8	27.4	69.5	55.1	54.9	35.4	57.4	41.5	22.1	-	-	50.9	4.4	37.9	6.8	22.2
60	ADV 1190384	6	-	40	33.3	18.8	0	6.7	14.7	52.8	70.2	26	26.1	85.7	19.4	34.7	43.9	24.5	16.1	36.2	-	-	-	-	13.2	10.9	-	17
61	HT 51412373	8.9	-	22.3	-	2.4	-	53.2	-	3.1	16.5	3.3	40	35.2	70.3	6.4	55.5	23.5	2.3	32.9	-	-	-	82.3	1.8	38.6	0.7	12.1
62	SAFAL X-2	16.3	-	33.4	13.4	10.3	-	18.8	9.2	45.2	40.7	15.5	-	80.1	-	46.8	17	25	-	16.2	-	-	-	64.4	16.5	-	-	8.9
63	JH 13197	26.8	16.4	-	9.2	10.8	-	5.1	19.5	78.8	9.7	11.8	7.5	19.1	32.2	2.2	28.7	-	-	5	-	-	-	-	-	-	-	1.5
64	super 6768	15.8	-	21.4	-	5.3	-	10.2	8.8	-	8	-	9.4	60.8	60	24.6	37.9	-	16.4	27.3	-	-	-	-	5.8	9.8	-	8.3
65	JH 13278	23.8	-	51.1	18.2	19.9	-	3.5	11.9	36.2	32.2	12.5	21.6	39.3	91.4	38.9	19.6	11.1	7.9	31.5	-	-	-	3.7	-	85.1	2.7	18.2
66	IN 8570	19.8	-	21.4	18.5	12.6	-	48.9	40.8	42.4	17.8	25.4	22.3	72.9	72	41.6	22	10	32.5	37.7	-	16	-	-	-	-	-	16.5
67	GPMH-1111	29.6	-	-	0.8	1.2	-	4.9	17	5.9	-	-	25.9	14.5	35.1	6.6	19.9	-	-	7.9	17.3	9.5	-	-	35.9	11.1	2.1	3.1
68	JH 13248	6	-	27.4	17.4	10.9	-	15.1	35.3	38.3	20.3	10.3	23.5	11.9	48	21.9	32.3	-	-	12.2	7.7	-	-	-	54.7	31.1	-	8

TABLE No. 1 (Cont..)

SI 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	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	MEAN
69	SAMH-378	8.9	-	25.2	15.6	8.9	-	22.9	41.1	68.9	-	10.3	-	15.2	35.9	14	49.3	2.1	-	9.1	4.8	-	-	24.2	18.7	-	-	5.4
70	KH-2192	16.3	-	60.8	7.9	16.2	-	29.4	9.7	73.2	24.4	21.7	22.9	56.9	61.5	79.9	32.5	-	15.7	35.7	5.8	21.7	-	62.6	19.3	30.8	13.2	22.9
71	ADV 0990293	26.8	1.4	22.2	67.8	31.7	-	15.3	-	39	21.1	9.6	51.9	71.3	50	35.5	0.8	18.1	-	34.8	-	13.6	-	101	21	4.5	6.3	22.6
72	JH 13252	16.3	9.6	46	28.2	24.4	-	-	22.5	8	60.2	11.4	13.2	62.1	84.4	42.4	10.1	-	-	26.6	20.1	9.4	-	69.9	64	81.2	30.8	24.2
73	NMH 1605	26.8	5.9	-	5.5	9.3	4.5	5.9	46.1	51.2	5.1	20.2	6.2	36.8	43.7	30.5	15.5	-	-	15.3	-	-	-	-	3	9.1	-	8.4
74	GPMH-1101	15.8	-	-	-	-	-	-	12.8	36.5	-	-	13.7	3.4	36	26	11.8	-	-	5.2	40.3	-	-	9.8	45.4	26.6	0.1	0.2
75	PM 14101L	20.8	-	42.9	31.8	21.1	-	-	-	60.4	2.8	43.4	61.6	54.8	68.4	66.1	29.8	-	44.1	-	-	-	-	17.1	15.5	14.5	-	18.3
76	CMH12-667	17	-	34.5	16.6	15.9	-	31	29.7	76	52.1	29.9	25.5	58.1	53.2	13.5	33.3	-	-	25.4	26.9	-	-	45.1	34.2	30.5	7.3	19.6
77	BH 412141	29.6	1.1	14.8	1.9	10.7	-	-	24.2	60.7	-	7	15.1	22.7	38.5	7.5	78.5	11.1	-	21.2	-	1.9	-	58.4	42.6	-	1.6	11.3
78	Srikar 3033	6	-	8.3	-	-	-	-	29.6	42.1	45.4	19.5	37.1	65.4	78.2	12.9	29.4	-	-	24.2	-	-	-	106	32.8	45	10.9	13.1
79	JH 13282	2.6	-	22.5	3.3	2.1	-	36.2	31.6	116	32.4	27.5	-	13.3	57.7	43.5	42.1	-	-	14	15.4	3.4	-	73.9	47.2	101	27.2	16.7
80	IN 8903	5.2	-	68	11.6	9.2	-	3.7	27.2	6	21.2	10.4	51.6	8.9	49.6	32	34.2	32.3	3.6	31.5	12.5	-	-	15.2	71.9	10.7	5.1	15.8
81	GYH-0652	-	-	-	-	-	-	60.3	16.3	16.8	-	-	-	-	-	-	1.2	-	-	-	-	-	-	43.7	-	7.2	-	-
82	NMH 1008	8.5	-	36.4	24.1	12.8	-	23.5	22.4	2.9	12.3	2.5	8.2	48.1	60.7	48.3	25.4	1.4	-	24.3	12.5	-	-	-	34.8	-	-	9.7
83	GK-3124	-	-	49.8	15.9	11	0.1	15.7	23.4	58.8	85.1	33	29.4	61.4	34.4	5.5	21	6.1	24.2	26.3	20.1	11.2	-	-	32.8	1.2	-	17.3
84	ADV 0990296	3.2	-	47.4	17.3	11.7	-	31.7	28.1	33.3	54.6	16.5	31.4	58.7	56	61.3	30.8	11.9	50.2	40.8	3.8	9.6	-	72.1	46.7	34.2	14.1	22.7
85	CMH11-618	-	-	10.7	28.3	6.6	-	-	24.9	-	54.5	4.1	17.9	86.7	59.4	39.3	12.2	-	58.5	36	15.3	-	-	-	7.4	1.6	-	12.4
86	REH2013-5	-	-	-	-	-	-	18.8	29.6	-	-	-	-	27.9	-	-	0.4	2.3	-	-	8.6	-	-	-	27.7	-	-	-
87	DAS-MH-106	11.4	-	63.9	20	16.6	1.5	7.8	20.8	65.3	23	20	37.6	85.8	41.3	32.1	29.7	20.4	13.9	38.5	3.8	-	-	-	45.2	-	-	15.8
88	JH 13244	-	-	9.1	8.1	1.5	-	19.6	24.6	113	39	32.1	8.2	11	9.3	12	38.7	-	-	5	34.6	-	-	78.8	18.5	-	8.6	10.1
89	AMH-3436	4.5	11.1	21.1	25.2	15.9	7.9	39.7	17.6	62.5	28.1	26.6	16.2	35.4	54.1	0.7	33.2	21.9	-	22.8	28.8	-	-	37.9	38.8	-	-	15.6
90	IN 8603	0.8	4	68.3	1.6	16	0	54.5	34	60.3	1.5	24.2	18.6	34.1	37.5	63.4	58.7	18.2	0.2	30.7	29.8	-	-	-	38.6	-	-	16.6
91	JH 13230	0.3	6.6	37.8	28.2	18.2	1.5	-	18.5	31.2	52.5	19.1	30	59.9	49.9	22.4	18.7	5.4	-	26.6	-	1.4	-	7.1	65.9	12.3	2.4	17.4
92	DAS-MH-107	-	-	21.2	36.9	13.5	5.3	42	-	50.5	10.5	16.1	37.6	37.1	1.5	40.5	40.4	25.2	-	25.3	10.5	1.7	-	-	61.2	3.1	-	14.6
93	IAHM 2013-12	1.5	-	20.2	11.7	5.4	-	27.3	27.4	29.5	-	3.3	-	14.2	-	4.1	3.5	-	-	-	8.6	-	-	-	2.5	-	-	-
94	JH 12010	-	-	24.3	10.1	4.8	-	-	41.5	78.3	23.9	18.2	-	19.3	73.4	21.1	28	-	-	13.2	13.4	2.2	-	104	17.7	55.8	18.1	13.2
95	BH 412131	-	-	16.7	-	-	-	7.2	13.2	50.4	14.1	9	5	22.4	20.2	-	60.1	-	-	9.1	-	-	-	25.9	37.8	1.1	-	3
96	Super 1177	3.2	5.3	67.3	21	22.5	-	73.5	36.1	83.7	1.5	25.8	42.2	57.5	96.5	40.5	44.1	1.3	-	37.8	11.5	23.7	-	36.4	20.8	45.2	8.4	24.8
97	Super 777	-	-	8.9	14.4	3.8	-	13.5	22.3	31.4	45.2	15.2	-	68.3	14.5	25.7	35.6	-	-	15.4	-	-	-	13.1	10.8	6	-	6.8
98	GH-110145	21.6	1.1	-	-	-	-	6.8	20.4	40.4	-	-	-	30.9	-	19.4	-	12.9	-	14.4	-	-	-	-	18.7	-	-	-
99	JH 13045	27.2	-	26.2	23.6	14.5	-	38.2	2.1	27.6	25	9.6	3.6	70.8	96.1	12.1	51.9	28.9	-	33.1	21.1	-	-	28.3	-	10	-	15.5
100	JH 13037	11.3	-	7.1	-	-	-	25.5	29.6	60.9	16.4	9.9	29.6	24.6	12.6	17.2	-	4.3	47.8	18.8	1.9	-	-	-	-	23.9	-	6.7
101	MAH-974	-	-	-	-	-	-	-	41.3	9	-	0.7	-	-	47.2	0.5	32.8	-	-	1	4.8	-	-	26.2	16.6	2.9	-	-
102	BH 412096	13.5	9.1	-	-	0.8	24.7	9.3	18.5	18.6	15.9	18.4	8	28.7	39.9	28.4	11	-	12	14.2	16.3	-	-	7.4	24.8	1.6	-	7.7

TABLE No. 1 (Cont..)

SI 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	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	MEAN
1	GPS -03	-	-	16.7	-	-	-	20.2	-	6.4	-	-	-	36.6	25.6	49.6	-	-	-	9.5	-	7.1	10	7.8	32.6	3.4	-	-
2	DMRH1416	-	-	-	-	-	-	35.6	3.6	22.1	-	-	-	49	8.2	14.1	-	-	27.6	9.8	1.5	-	3.8	-	34.8	-	-	-
3	HT 51412607	-	-	15.3	-	-	-	32.6	33.5	25.8	4.5	1.5	-	30.3	4.4	6.4	20.5	5.8	14.3	7	3.8	15.6	12.9	137	44.7	13.3	32.3	8.3
4	GPS -02	-	-	5.9	23	2.2	-	29.3	15.7	-	-	-	-	49.2	-	25.9	-	-	34.1	3.4	-	-	3.3	31.3	38.7	-	-	-
5	SYN417750	-	-	27.5	21.9	4.9	-	-	11.1	6.1	-	-	-	38.2	5.1	10.1	-	2.8	32.9	2.3	-	26.8	30.8	-	26	-	0.9	-
6	DMRH1415	-	0.6	-	5.2	-	-	39.6	6	-	-	-	-	0.5	7.1	6.1	13.8	-	14.7	-	-	11.3	41.9	39.5	60.1	-	16.9	-
7	GH-110204	-	-	-	-	-	-	4.4	18.7	-	-	-	-	-	-	-	-	-	-	-	0.8	-	0.8	9.6	4.1	-	-	-
8	KH-1408	-	-	-	-	-	-	32.9	-	-	-	-	-	20.4	-	13.4	-	9.3	71.5	5.6	-	-	2.6	74.5	36.8	-	6.6	-
9	NMH-1247	-	-	21.6	-	-	-	13.9	52.3	-	-	-	4.4	51.1	50.6	26.7	5.5	12.7	45.5	25.7	-	31.5	7.7	-	47.2	-	3.9	8.6
10	HKH422	-	-	-	-	-	-	-	2.3	-	-	-	-	1.7	-	-	-	-	15.7	-	-	-	-	-	11.2	6.7	-	-
11	VEH 14-1	-	-	18.9	20.7	4	-	66.9	25.5	-	4.6	4.1	2.2	24.6	-	10.5	-	16	0.6	7.5	8.3	25.9	-	69.8	31	-	16.9	7.8
12	PM 14102L	-	5.8	16.2	-	2.2	-	2.5	6.8	1.6	-	-	5.4	41	6.9	25.3	9	-	11.1	12.6	-	-	-	44.5	22.6	-	2.2	0.8
13	Gin 01	-	-	11.4	5.2	1	-	20.7	14.7	8.4	-	-	-	-	-	-	8.3	-	-	-	-	-	-	89.1	43	-	4.7	-
14	JH 13023	1	-	18.9	9.2	2	-	15.6	-	30.9	-	-	-	20.2	42	5.1	9.1	6	15	11.7	-	15.9	-	111	29.8	27.6	21	6.5
15	115-08-01	6.5	-	9.4	-	-	-	30.6	-	-	-	-	-	45.2	34.6	-	-	3.6	83.1	16.4	-	18.1	28.7	6.3	11.5	6.8	2.7	3.7
16	KF-110	5.9	-	5.2	-	-	-	24.4	12.5	-	-	-	-	7.9	-	2.4	14.3	-	-	-	-	-	23.9	-	18.8	-	-	-
17	PM 14106L	4.5	-	31.1	16.9	8.3	-	3.9	9.7	-	-	-	-	28	50.8	9.9	21.5	6.2	13.2	13.7	0.7	0.4	35.1	43.6	19.2	-	12.7	7.9
18	PM 14105L	10.8	0	19.6	21.7	12.8	-	57.5	31.3	20.1	-	-	7.6	37.2	28.9	9.5	-	9.9	19.5	13.2	-	0.6	-	73.7	7.1	30.4	8	8.4
19	Bio-069	11.9	-	18.9	18	3.1	-	53.4	-	29.2	-	-	-	28.2	2.2	15.7	-	28.1	43.3	12.4	-	23.4	1.8	-	-	-	-	2.9
20	PMSY -3	-	-	-	-	-	-	16.3	-	-	-	-	-	-	-	-	-	6.3	2.9	-	-	-	12.6	49.4	-	11.9	3.4	-
21	NT 8441	-	-	0.4	25.6	-	-	11.4	1.8	23.7	-	-	8.5	1.1	1.3	-	-	30.5	18.9	7.4	-	-	5.2	24.6	-	20.9	1.4	1
22	Proline-2404	-	-	32.3	27.1	8.1	-	26.1	17.2	-	-	5.5	32.4	0.2	23.9	-	10.9	-	9.6	9	-	20.6	13.3	-	16.6	7.3	6.5	
23	siri -4555	-	-	28	32.6	10.2	-	25.3	-	18.3	-	-	-	38.9	10.9	18.7	14.4	16.1	42.3	11.2	-	-	36	15	-	-	1.2	4.8
24	JKMH 4242	5.4	-	24.2	8.7	-	-	0.7	-	1.3	-	-	-	22.5	38.9	6.6	2.9	17.2	30.9	15.1	-	8.3	27.6	31.3	-	46.6	14.4	4.3
25	GOLD 1166	23.9	-	9.1	17.3	12.3	-	89.7	12	6.1	8.7	14.3	-	4.1	17.1	11.6	7.7	4.3	16.3	1.8	-	36.5	12	-	-	-	5.8	
26	VNR 4325	15	-	8.2	21.2	5.8	-	19.4	10.8	-	-	-	-	16.9	24.8	-	7.7	17	38.5	8.3	23.3	21.7	-	97	15.3	0.1	21.9	6.1
27	CMH12-671	4.2	-	17.1	27.5	-	-	8	32.3	-	-	-	-	15	11.1	7	25.6	14	61	9.3	1.5	-	-	5.9	9.7	23.7	4.3	3.3
28	HT 51412616	-	-	19.4	27.9	7.8	-	9.7	-	10.4	-	-	1.2	50.4	35.2	2.7	-	28.4	60	21.7	-	16.7	3.4	-	7.5	48.5	4.3	8.2
29	CMH10-555	-	-	12.7	34	10.2	-	27.2	10.9	91.6	-	7	11.3	22.4	28.5	26	20.1	-	40.6	17.6	-	7.1	24.4	43.6	49.5	-	16.9	13.4
30	CMH12-663	-	-	19.4	27.1	6.9	11.2	12.5	40.1	11.9	12.2	16.9	-	29.3	13.3	23.2	38.3	-	65.3	17.3	-	-	27	8.5	28.2	23	6.5	12.5
31	DKC9125	1	-	31.9	40.5	12.3	-	10.5	16	2.9	-	-	-	25.1	-	12.5	7	-	25	2	-	-	3.4	58.9	39.5	-	11.5	3.3
32	KMH-3981	3.2	-	34	23.1	9.6	-	75.7	-	14.9	-	-	-	66.8	59.4	13.6	8.7	-	21.6	19.7	-	-	27.2	118	38.2	35	16.3	11.3
33	DMH-192	-	-	19.5	16.9	2.7	-	20.2	-	25.8	-	-	22.6	62.7	24.9	24.8	-	0.4	-	19.5	-	31.3	16.1	8	13.8	16.1	9.7	7.1
34	DMRH1413	-	-	-	-	-	-	2.9	27.5	-	-	-	-	-	-	-	-	-	-	-	-	5.3	-	24.7	-	7.3	-	-

BR38

TABLE No. 1 (Cont..)

SI 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	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	MEAN
35	K-25 Gold	-	-	-	-	-	-	26.1	33	-	-	-	-	54.7	26.1	5.8	-	14.3	36.8	13.7	1.5	-	32.1	-	17.6	7.6	-	-
36	IN 8569	11.9	-	61.9	10.8	13.2	-	-	26.4	0.7	-	-	24.9	38.4	32.9	42.2	11.6	31.8	31.6	30.7	-	0.4	14.9	-	11	-	-	9.8
37	GK-3118	-	-	9	8.4	-	-	6.8	29.9	10.8	-	-	3.7	26.3	17.9	27.2	38.4	-	50	16.8	-	-	19.1	-	20.9	-	-	0.3
38	DMRH1409	16.3	-	-	-	-	-	12.3	-	31.5	-	-	-	2.5	-	14.6	-	9.7	5.6	0.2	-	26.5	35.5	47.6	-	-	7.4	0.7
39	VNR 31862	11.7	-	-	19	-	-	55.5	16.4	37.4	-	-	-	42.6	-	-	-	-	4.3	-	-	-	1.9	-	14.7	-	-	-
40	MAH-957	-	-	-	0.9	-	-	17.8	3.9	-	-	-	-	0.7	-	-	-	-	-	-	-	-	-	-	11.2	-	-	-
41	DMH-7721	-	-	39.5	32.5	6.2	-	59.5	10.7	39.5	-	1.7	-	71.9	3.3	27.9	-	-	71.9	10.7	2.3	9.5	28.6	-	6.4	-	-	4.5
42	NT 8711	-	-	26.7	18.4	2.2	-	-	16.7	23.5	-	-	1.2	47.2	-	11.4	-	21.8	40.4	12.2	-	17.7	2.1	13.6	3.7	-	0.6	4.4
43	JH 13249	-	-	-	-	-	-	29.3	8.7	-	5.2	3.3	-	17	8.1	-	11.1	-	-	-	28.6	10.1	14.8	8.1	22.2	-	14.2	-
44	SAMH-225	-	-	-	3.7	-	-	13.4	9	-	-	-	-	7.1	-	3.2	14.2	5	11.6	-	-	5.2	-	8.2	25.4	-	-	-
45	JH 13041	-	-	-	-	-	-	5.5	-	5.8	-	-	-	21.9	7.8	1.6	-	9	-	-	-	17.3	19	-	17.1	8.8	3.2	-
46	JH 12063	-	-	37.6	7.3	2.9	-	-	12.1	35.1	-	1.2	-	18.9	52.4	30	0.1	1.8	-	11.8	-	-	1	67.4	-	15.3	0.3	5.1
47	JH 13094	-	-	9.7	9.3	-	-	-	24.7	59.8	-	-	-	-	0	11.1	-	-	22	-	-	12.9	1	55.7	31.1	48	20.7	-
48	RMH-726	0.5	-	24	19.6	5.5	-	-	-	1.9	6.1	-	-	48.6	6.2	-	28	7.6	26.5	10.5	-	1.8	9.4	-	47.2	-	0.8	4.4
49	JH 13044	15.8	-	-	18.2	4.2	-	19.7	31.3	75.6	5.4	4.7	-	45.4	-	6.1	-	21.5	22.7	6.7	-	-	17.6	11.5	21.9	-	-	2.8
50	PMSW 4	5.7	-	-	-	-	-	17.1	8.6	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	55	21.2	-	6.7	-
51	PM 14104L	1.8	-	24.8	5.4	2.1	-	-	5.9	28.8	-	-	-	30.3	45.1	16.5	35.6	-	-	15.7	-	1.4	17.7	5	48.9	15.6	5.1	3.4
52	CP.555	-	-	4.2	18.1	1	-	10.5	33.9	30.5	3.6	4.6	-	37	39	-	26.2	7.5	28	15.5	-	20	54.3	63.7	33.3	-	13.2	9.1
53	JH 13183	9	-	9.1	-	-	-	57.7	35	27.1	-	2.4	-	8	5.9	-	-	-	13.8	-	-	26	12.2	-	36.8	18.3	7.1	-
54	DMRH1411	-	-	-	6.9	-	-	39.9	6.6	37.7	-	3.6	-	-	2.6	-	-	-	1	-	-	8.8	22.3	-	32.3	24.3	9.9	-
55	JH 12150	-	-	26	5	0.2	-	41.9	20.7	39.3	-	2.5	-	39.9	-	7.3	22.6	-	58.3	9.7	-	-	-	57.4	32.4	31.8	7.8	5.5
56	Gin 02	9.6	-	27	13.5	4.8	-	18.2	11.6	41	-	-	-	19.4	2.1	9.6	0.3	-	-	-	-	12.3	7.6	50.6	-	-	6.2	0.5
57	BH 412140	-	-	-	3.4	-	-	23.3	2.5	19.7	-	-	-	23	2.2	-	17.1	2.6	18	0.1	-	-	13.4	80.2	34.1	-	2.1	-
58	NT 6325	4	-	32.8	-	3.3	-	2.7	-	22.8	-	-	-	39.7	19.1	38	17	14	57.3	19.5	10.5	-	27.7	-	40.4	-	5.3	7
59	DMRH1308	4.4	-	27.7	-	2.3	-	27.8	2.9	5	-	-	-	13.1	31.7	31.2	25	36.4	87.6	22.8	-	11.4	9.3	52.9	10	25	14.9	11
60	ADV 1190384	-	-	24	33.3	6.8	-	12.2	10.4	19.6	10.8	4	-	64.8	-	13.9	16.1	25.4	38.5	18.3	-	-	21	-	19.3	0.5	-	6.2
61	HT 51412373	-	-	8.3	-	-	-	61.1	-	-	-	-	3.1	20	32.4	-	25.5	24.4	21.9	15.3	-	15.9	-	84.7	7.3	25.6	8.4	1.9
62	SAFAL X-2	-	-	18.2	13.5	-	-	24.9	5	13.6	-	-	-	59.9	-	24.2	-	26	0.9	0.9	-	21.8	29.1	66.6	22.7	-	-	-
63	JH 13197	2.2	4.1	-	9.2	-	-	10.5	15	39.8	-	-	-	5.8	2.7	-	3.9	-	1	-	-	-	-	-	1.5	-	-	-
64	super 6768	-	-	7.6	-	-	-	15.9	4.7	-	-	-	-	42.7	24.4	5.4	11.2	0.7	38.8	10.5	-	9.8	29.9	-	11.5	-	-	-
65	JH 13278	-	-	33.8	18.3	7.8	-	8.9	7.6	6.5	-	-	-	23.6	48.7	17.5	-	12	28.6	14.2	-	12.3	35.7	5.1	-	67.7	10.5	7.4
66	IN 8570	-	-	7.5	18.5	1.2	-	56.6	35.5	11.4	-	3.5	-	53.5	33.6	19.8	-	10.8	57.9	19.5	-	41.4	8.8	-	-	-	-	5.8
67	GPMH-1111	4.4	-	-	0.8	-	-	10.3	12.6	-	-	-	-	1.6	5	-	-	-	5.4	-	-	33.6	12.8	-	43.2	0.6	9.8	-
68	JH 13248	-	-	12.8	17.5	-	-	21	30.2	8.1	-	-	-	-	15	3.2	6.7	-	18.9	-	-	7.6	28.2	-	63	18.8	4.8	-

TABLE No. 1 (Cont..)

SI 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	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	MEAN	
69	SAMH-378	-	-	10.9	15.7	-	-	29.3	35.8	32.1	-	-	-	2.3	5.6	-	20.5	2.9	-	-	-	-	12.7	25.9	25.1	-	-	-	
70	KH-2192	-	-	42.4	8	4.4	-	36.1	5.6	35.5	-	0.4	-	39.3	25.5	52.2	6.9	-	37.9	17.8	-	48.3	17.1	64.8	25.7	18.5	21.8	11.6	
71	ADV 0990293	2.2	-	8.2	67.9	18.3	-	21.3	-	8.7	-	-	11.9	52.1	16.6	14.7	-	19	6.6	17	-	38.5	13.9	104	27.5	-	14.4	11.3	
72	JH 13252	-	-	29.4	28.2	11.7	-	1.5	17.8	-	4.3	-	-	43.9	43.3	20.4	-	-	9.3	9.9	-	33.3	41	72.1	72.8	64.1	40.7	12.8	
73	NMH 1605	2.2	-	-	5.5	-	-	11.4	40.6	18.2	-	-	-	21.4	11.7	10.5	-	-	3.5	0.1	-	9.8	36.2	-	8.5	-	-	-	
74	GPMH-1101	-	-	-	-	-	-	-	8.5	6.8	-	-	-	-	5.7	6.6	-	-	-	-	-	9.8	-	-	11.3	53.2	14.7	7.7	-
75	PM 14101L	-	-	26.6	31.8	8.8	-	-	-	-	4.4	-	5.7	43.5	20.3	42.5	34	30.8	1.3	25.1	-	5.1	-	18.6	21.7	3.7	-	7.4	
76	CMH12-667	-	-	19.1	16.6	4.1	-	37.8	24.8	37.7	-	7.2	-	40.4	19.1	-	7.6	-	17.7	8.8	-	17.8	-	47	41.4	18.2	15.5	8.6	
77	BH 412141	4.4	-	1.7	2	-	-	5	19.5	25.7	-	-	-	9	7.6	-	44	12	14	5.2	-	24.3	5	60.5	50.2	-	9.3	1.1	
78	Srikar 3033	-	-	-	-	-	-	-	24.7	11.2	-	-	1.1	46.9	38.5	-	4.4	-	-	7.8	-	12.7	20.1	108	39.9	31.3	19.3	2.7	
79	JH 13282	-	-	8.5	3.4	-	-	43.3	26.6	68.8	-	5.2	-	0.6	22.6	21.4	14.6	-	4.5	-	-	26.1	21.7	76.2	55.1	82.3	36.8	6	
80	IN 8903	-	-	48.8	11.6	-	-	9	22.4	-	-	-	11.7	-	16.2	11.7	8.3	33.3	23.4	14.2	-	17.5	-	16.7	81.2	0.3	13.1	5.1	
81	GYH-0652	-	-	-	-	-	-	68.6	11.9	-	-	-	-	-	-	-	-	-	-	-	-	-	27.2	45.6	-	-	-	-	
82	NMH 1008	-	-	20.8	24.2	1.4	-	29.9	17.8	-	-	-	-	31.5	24.9	25.5	1.2	2.1	5.7	7.9	-	1.9	6.4	-	42	-	-	-	
83	GK-3124	-	-	32.7	16	-	-	21.7	18.7	24.2	20.5	9.8	-	43.3	4.5	-	-	7	48	9.6	-	35.6	11	-	39.9	-	6.4	6.6	
84	ADV 0990296	-	-	30.6	17.3	0.4	-	38.5	23.3	4.3	0.6	-	-	40.9	21.2	36.5	5.6	12.7	79.1	22.2	-	33.7	3.9	74.4	54.6	21.5	22.7	11.4	
85	CMH11-618	-	-	-	28.4	-	-	-	20.1	-	0.6	-	-	65.8	23.9	17.9	-	-	88.9	18	-	11.6	5.9	-	13.2	-	-	2.1	
86	REH2013-5	-	-	-	-	-	-	24.9	24.7	-	-	-	-	13.6	-	-	-	3.1	-	-	-	-	3.2	-	34.5	-	-	-	
87	DAS-MH-106	-	-	45.1	20	4.8	-	13.4	16.2	29.3	-	-	1.4	64.9	9.8	11.8	4.7	21.3	35.8	20.3	-	-	14.6	-	53	-	-	5.2	
88	JH 13244	-	-	-	8.2	-	-	25.8	19.9	66.3	-	9	-	-	-	-	11.9	-	-	-	5.3	4.1	20.4	81.2	24.9	-	16.9	-	
89	AMH-3436	-	-	7.3	25.2	4.2	-	46.9	13.1	27.1	-	4.5	-	20.2	19.8	-	7.4	22.9	18.4	6.6	0.7	-	-	39.7	46.2	-	3.7	5	
90	IN 8603	-	-	49	1.6	4.2	-	62.5	28.9	25.4	-	2.5	-	19.1	6.9	38.2	28.1	19.1	19.5	13.5	1.5	17.8	-	-	46.1	-	-	5.9	
91	JH 13230	-	-	22.1	28.3	6.2	-	2.8	14	2.6	-	-	-	41.9	16.5	3.5	-	6.2	12.5	9.9	-	23.7	30.3	8.5	74.8	1.7	10.2	6.7	
92	DAS-MH-107	-	-	7.3	37	2	-	49.4	-	17.7	-	-	1.4	21.7	-	18.9	13.3	26.2	-	8.7	-	23.9	-	-	69.9	-	7.2	4.1	
93	IAHM 2013-12	-	-	6.4	11.8	-	-	33.9	22.6	1.3	-	-	-	1.4	-	-	-	-	-	-	-	5.8	-	-	8	-	-	-	
94	JH 12010	-	-	10.1	10.1	-	-	-	36.1	39.4	-	-	-	5.9	34.8	2.4	3.3	-	14.3	-	-	24.6	7.7	106	24.1	41.1	27.1	2.8	
95	BH 412131	-	-	3.3	-	-	-	12.8	8.9	17.7	-	-	-	8.6	-	-	29.2	-	9.3	-	-	9.6	17.3	27.5	45.2	-	6.4	-	
96	Super 1177	-	-	48.1	21.1	10.1	-	82.5	31	43.7	-	3.9	4.8	39.8	52.7	18.9	16.3	2	7.5	19.6	-	50.8	-	38.2	27.3	31.5	16.6	13.4	
97	Super 777	-	-	-	14.4	-	-	19.4	17.7	2.8	-	-	-	49.4	-	6.3	9.4	-	17.3	0.1	-	7.9	-	14.6	16.8	-	-	-	
98	GH-110145	-	-	-	-	-	-	12.4	15.9	9.9	-	-	-	-	1.7	-	-	-	34.6	-	-	-	27.8	-	25.1	-	-	-	
99	JH 13045	2.5	-	11.7	23.7	2.9	-	45.3	-	-	-	-	-	51.7	52.4	-	22.6	29.9	-	15.5	-	-	15.9	30	3.5	-	4.2	4.9	
100	JH 13037	-	-	-	-	-	-	31.9	24.7	25.9	-	-	-	10.6	-	-	-	5.1	76.2	3.1	-	0.1	49.2	-	2	12.3	3.3	-	
101	MAH-974	-	-	-	-	-	-	2.8	36	-	-	-	-	-	14.4	-	7.1	-	-	-	-	7.5	20.5	27.8	22.9	-	5.7	-	
102	BH 412096	-	-	-	-	-	3.1	14.9	14.1	-	-	-	-	14.2	8.8	8.7	-	-	33.5	-	-	-	38.3	8.8	31.5	-	5.1	-	

TABLE No. 1 (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	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	MEAN	
103	PRMH-189	0.1	-	5.8	30	6.9	-	-	28.7	-	-	-	-	64	42.7	26.1	3.8	17.4	38.1	20.4	-	15	-	0.3	3.3	-	-	4.9	
104	IN 8902	-	-	22	-	-	-	5.4	5.1	-	9.8	-	-	33.8	26.8	19.6	7.8	5.2	82.4	19.4	2.3	25.9	14.9	90.8	24.2	-	21.9	8.1	
105	IN 8602	-	-	31.6	27.1	-	-	68.3	27.8	-	-	-	11.3	17.9	27.8	18.5	26.2	23	16.3	19.3	-	13.7	14.9	80.4	42.3	18.2	11.4	6.6	
106	REH2013-6	-	0.7	-	16	-	-	22.2	-	0.2	-	-	-	-	-	-	-	5.4	-	-	-	1.4	-	-	44.2	-	1.6	-	
107	JH 13270	-	-	31.3	2.7	-	-	-	29.9	24.3	-	1.1	14.2	27.8	17.3	-	-	20.2	56.9	14.8	4.5	-	21.4	113	38.1	64.3	35.1	12.2	
108	BH 412095	-	-	15.4	8	-	-	-	2.4	33.7	-	-	-	-	1.3	10.2	-	-	14.3	-	-	39.3	37	40	14	2.8	17	1.1	
109	HKH423	-	-	-	15.3	-	-	31.6	-	21.8	-	-	-	10.6	-	-	4.2	-	3.4	-	-	-	4.9	-	48.2	-	-	-	
110	Sonam -27	-	-	-	-	-	-	44.1	-	27	-	-	-	-	-	-	1.7	-	-	-	-	-	12.5	15.6	77.9	-	3.8	-	
111	REH2013-2	-	-	-	-	-	-	-	24.8	14.5	-	-	-	-	4.5	-	-	0.1	1.6	-	-	-	17.4	43.8	29.3	-	1.2	-	
112	JKMH 4023	-	-	26.9	36.8	7.9	-	-	35.9	37.8	-	-	-	50.4	27.9	18.2	-	-	16.2	9.9	-	4.4	31.8	15.1	9.5	37	13.2	7.5	
113	AH 7005	-	-	-	-	-	-	-	13.1	-	-	-	-	7.7	-	-	-	-	-	-	-	3.7	-	14.7	26.5	25.3	2.8	9.4	-
114	CSM-1	-	-	-	-	-	-	29.1	3.1	-	-	-	-	6.6	-	-	24.5	-	-	-	-	-	-	-	23.3	5.2	-	-	
115	CSM-2	-	-	-	-	-	-	1.8	35.9	-	-	-	-	-	-	-	-	-	0.3	-	-	-	12.3	-	36.6	-	-	-	
	CHECKS																												
116	PMH1	4.9	-	24.2	18.4	10.4	-	34.9	2.8	54.5	-	2.4	-	13.3	14.4	3.6	-	-	41.3	5.8	-	8.5	-	-	37.7	20.4	-	4.9	
117	PMH3	-	-	14.2	4.7	-	-	56.1	28.7	-	7.5	-	-	19.5	-	12.4	-	-	50.7	0.4	-	7.2	6.3	62.3	15.9	4.9	11.2	1.8	
118	BIO-9681	-	-	-	0	-	-	5.2	-	-	-	-	-	-	-	-	-	0.8	19.2	-	-	21.9	65.9	1.3	5.4	-	7.6	-	
119	SeedTech 2324	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
120	HM11	-	-	-	-	-	-	10.2	-	3.7	-	-	-	10.8	-	-	-	-	24	-	-	7.2	46.5	-	-	-	-	-	

TABLE No. 1 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM11																										
		ZN 2						ZN 3						ZN 4						ZN 5						OV'L		
		KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	MEAN
1	GPS -03	-	14.3	60	24.6	21.7	-	9.1	-	2.6	40.4	5.8	18.5	23.3	67.8	74.4	9.1	7.2	-	24.7	-	-	-	98.4	38.4	50.1	9.9	17.1
2	DMRH1416	-	37.3	26.3	21.5	19.7	8.5	23	4.2	17.7	19.6	14	31.1	34.5	44.5	33	4.1	14.8	2.9	25.1	42	-	-	17.1	40.7	37.3	7.8	17.9
3	HT 51412607	7.6	32.8	58	19	27.5	-	20.3	34.2	21.3	62.1	25.6	24.9	17.6	39.5	24	34.3	21.8	-	21.9	45.3	7.9	-	335	51	64.5	48.2	29.5
4	GPS -02	21	19	45.2	53.7	34.8	26.2	17.4	16.4	-	29.8	15.1	12.6	34.6	28.8	46.8	-	-	8.1	17.7	-	-	-	142	44.8	5.3	9	19.2
5	SYN417750	20.9	10.8	74.8	52.3	38.4	-	-	11.7	2.3	-	-	-	24.7	40.5	28.3	-	18.3	7.2	16.4	-	18.3	-	73	31.6	13.8	13	16.6
6	DMRH1415	26.2	38.4	26.4	31.5	30.8	-	26.7	6.6	-	24.9	0.7	-	-	43.1	23.6	26.8	-	-	2.7	16.8	3.8	-	157	67.2	38.3	30.9	14.7
7	GH-110204	25.6	-	1.1	13.6	10.4	-	-	19.4	-	-	-	-	-	16.3	-	-	3	-	-	41	-	-	102	8.7	24.4	10.4	-
8	KH-1408	24.2	-	36.9	14.2	17.6	40.4	20.6	-	-	1.5	9.6	30.8	8.6	9.7	32.2	-	25.8	38.3	20.2	10.5	-	-	221	42.8	21.7	19.4	17.4
9	NMH-1247	22.7	4.8	66.7	24.1	27.6	24.6	3.4	53.1	-	29.7	22.9	52.1	36.3	101	47.7	17.5	29.8	17.4	43.1	22.1	22.7	-	18.4	53.7	36	16.4	29.9
10	HKH422	24.9	16.1	15.2	7	15.6	-	-	2.9	-	22	-	-	-	25.7	-	11.2	-	-	0.2	26.2	-	-	32.2	16.1	55	2	2.9
11	VEH 14-1	18.9	19.3	63	50.8	37.1	17.9	51.5	26.2	-	62.2	28.8	49	12.5	33.6	28.8	-	33.5	-	22.4	51.5	17.5	-	212	36.7	37.6	30.9	28.8
12	PM 14102L	17.2	45.5	59.2	24.1	34.8	-	-	7.4	-	8.4	-	53.6	27.3	42.9	46	21.4	7.6	-	28.2	38.9	-	-	166	28	5.6	14.5	20.5
13	Gin 01	17.6	35.8	52.6	31.4	33.2	1.5	9.5	15.3	4.5	48.8	16.2	23.1	-	23.1	12.1	20.7	-	-	-	3.1	-	-	248	49.3	30.7	17.3	14.3
14	JH 13023	31.4	12.2	62.9	36.5	34.5	22.9	4.9	-	26.2	0.1	10.5	39.8	8.5	89.7	22.5	21.6	22	-	27.2	17.9	8.2	-	288	35.5	85.3	35.6	27.3
15	115-08-01	38.6	17.5	49.9	23.1	31.2	25.9	18.5	-	-	14.5	10.1	37.7	31	79.8	13.6	0.7	19.2	47.7	32.5	-	10.2	-	95.5	16.5	55.1	15	24
16	KF-110	37.8	17.6	44.2	-	22.7	43.1	-	25.1	8.4	15.9	17	-	-	-	19.4	27.4	-	-	-	21	-	-	22.1	24.1	31.8	7.8	6
17	PM 14106L	36	16.1	79.7	46.1	42.8	36.9	-	10.3	-	42	15.7	25.6	15.5	102	28.1	35.4	22.3	-	29.4	41	-	-	164	24.4	33.6	26.2	29.1
18	PM 14105L	44.2	37.6	64	52.1	48.8	-	42.9	32	15.7	16.3	18	56.8	23.8	72.2	27.7	-	26.5	-	28.8	-	-	-	220	11.8	89.4	21	29.6
19	Bio-069	45.6	-	62.9	47.5	36	27.4	39.2	0	24.5	6.3	18.4	36.7	15.7	36.6	34.9	-	47.4	15.5	27.9	28.4	15.1	-	2.5	-	35.2	5.4	23.1
20	PMSY -3	29.2	19.1	17.4	-	15.4	7.8	-	17	-	-	-	-	-	2.7	0.3	-	22.3	-	-	4.2	-	-	175	-	62.4	15.8	3.5
21	NT 8441	11.4	-	37.6	57	26.3	28.5	1.1	2.3	19.3	41.1	19.1	58.2	-	35.4	16.3	-	50.2	-	22.3	8.4	-	-	129	-	75.6	13.6	20.8
22	Proline-2404	4.5	31.9	81.3	58.8	42.6	60.5	-	26.8	13	16.4	21.8	53.7	19.5	33.9	44.5	-	27.7	-	24.8	52.6	-	-	108	-	69.3	20.2	27.3
23	siri -4555	15.7	28.1	75.5	65.7	45.3	50.7	13.7	-	14	-	12.6	6.2	25.4	48.2	38.4	27.4	33.6	14.7	26.6	15.8	-	-	112	1	36.5	13.4	25.3
24	JKMH 4242	37.1	-	70.2	35.9	30.5	46.9	-	-	-	-	3.1	44.7	10.6	85.6	24.3	14.6	34.9	5.5	31.1	23.1	1	-	142	2.4	113	28.2	24.8
25	GOLD 1166	61.2	35.5	49.5	46.5	48.2	57	72.2	12.6	2.3	68.5	41.5	11.3	-	56.5	30.1	20	20.1	-	15.9	2.1	27.3	-	31.5	1.4	34.3	7.4	26.6
26	VNR 4325	49.6	8.2	48.2	51.4	39.5	25	8.3	11.4	-	7.3	8.1	19.1	5.5	66.7	15.6	19.9	34.7	11.7	23.3	72.5	13.5	-	262	20.4	45.4	36.6	26.8
27	CMH12-671	35.6	-	60.5	59.3	30.3	37.7	-	33	-	43.9	21.2	13.4	3.8	48.4	24.7	40	31.2	29.8	24.4	42.1	-	-	94.8	14.5	79.6	16.8	23.5
28	HT 51412616	27.1	20	63.6	59.8	42.1	21.7	-	-	6.4	27.6	11.4	47.5	35.7	80.7	19.8	-	47.8	29	38.6	28.4	8.9	-	0.5	12.3	116	16.9	29.4
29	CMH10-555	25.5	33.5	54.4	67.4	45.4	7.1	15.4	11.5	84.6	45.6	32.4	62.2	10.4	71.8	46.9	33.8	8.1	13.4	33.9	39	-	-	164	56	41.6	30.9	35.6
30	CMH12-663	19.4	24.7	63.7	58.8	41.1	84.5	2.1	40.9	7.8	74	44.6	45.3	16.7	51.4	43.6	54	8.6	33.3	33.6	9.4	-	-	99.7	33.9	78.6	19.3	34.5
31	DKC9125	31.4	7	80.8	75.6	48.1	-	0.3	16.6	-	21.5	7.1	36.5	12.9	15.6	31.1	19.2	-	0.8	16.2	33.6	-	-	192	45.7	40.3	25	23.5
32	KMH-3981	34.3	12.9	83.7	53.8	44.6	17.5	59.4	-	10.7	21.6	16.8	26.7	50.5	113	32.5	21.1	13.4	-	36.3	-	-	-	300	44.2	96	30.3	33
33	DMH-192	17.6	18.5	63.8	46.1	35.4	24.1	9.1	-	21.2	0.7	10.9	78.6	46.8	66.8	45.5	-	15.6	-	36.1	18.9	22.6	-	98.7	18.8	68.6	22.9	28.1
34	DMRH1413	10.6	14.9	-	12.2	-	-	-	28.2	-	-	-	-	-	-	-	-	-	-	-	47.3	-	-	82.8	12.1	35.4	9.6	-

BR42

TABLE No. 1 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM11																										
		ZN 2						ZN 3						ZN 4						ZN 5				OV'L				
		KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	MEAN
35	K-25 Gold	28.4	7.1	20.5	13.4	17.2	9.2	14.4	33.8	-	1.9	9.9	22.5	39.6	68.5	23.3	2.5	31.6	10.3	29.5	42	-	-	1.6	22.8	56.2	10.3	18.7
36	IN 8569	45.5	6.3	122	38.5	49.3	-	-	27.1	-	20.8	6.3	82	24.9	77.6	65.8	24.3	51.8	6.1	48.9	18.9	-	-	20.1	15.9	37.6	5.9	31.3
37	GK-3118	26.8	-	49.4	35.5	21.1	11.5	-	30.6	6.8	32.3	16.8	51.1	13.9	57.5	48.3	54.2	2.2	21	33	-	-	56.6	26.3	16	-	19.9	
38	DMRH1409	51.3	31.4	36.3	-	28.4	36.1	1.9	-	26.7	46.4	22.6	29.9	-	32.9	33.6	-	26.3	-	14.1	22.1	18.1	-	172	-	11.3	20.3	20.4
39	VNR 31862	45.3	3.2	21.9	48.7	31	55.4	41.1	17	32.4	-	23.5	-	28.6	26.6	-	-	14.5	-	6.2	16.8	-	-	-	19.7	-	-	11.2
40	MAH-957	28.4	-	6.7	26.1	13.5	-	6.9	4.5	-	-	-	4	-	15.6	-	-	-	-	-	24.2	-	-	51.6	16.1	4.7	1.6	-
41	DMH-7721	18.9	-	91.1	65.5	40.1	22.1	44.8	11.3	34.5	22.9	25.9	15.6	55.1	38.1	49.1	-	0.7	38.7	26	43.1	2.1	-	14.7	11.1	-	6	25
42	NT 8711	15	8.7	73.6	47.9	34.8	37.8	-	17.3	19.1	39	21.3	47.4	32.8	-	29.9	10.6	40.2	13.2	27.8	25.2	9.8	-	109	8.2	23.7	12.7	24.9
43	JH 13249	14.3	17.7	36.3	24.4	22.5	53	17.3	9.3	-	63.1	27.9	-	5.5	44.5	12.8	23.8	0.6	-	7.5	79.9	2.7	-	98.8	27.6	38.8	28	19.4
44	SAMH-225	23.2	12.3	-	29.5	15.6	19.5	2.9	9.6	-	25.1	10.6	1.4	-	25	20.3	27.2	20.9	-	10.2	3.1	-	-	99.1	31	5.4	3.4	10.1
45	JH 13041	25.2	4.9	-	15.6	8.4	47.2	-	-	2	25.1	14.6	17.6	10	44.1	18.5	5.1	25.5	-	13.7	24.2	9.5	-	34.3	22.3	58	15.6	13.1
46	JH 12063	13.9	17.4	88.5	34	35.7	53.2	-	12.7	30.2	34.7	25.3	30.4	7.3	104	51.6	11.5	17.2	-	27.2	-	-	208	-	67.5	12.4	25.6	
47	JH 13094	15.8	6.4	50.3	36.6	26.4	-	-	25.4	54	36.5	20.7	25.4	-	33.7	29.5	-	-	-	2.5	31.5	5.4	-	186	36.9	115	35.2	18.6
48	RMH-726	30.7	11.1	69.9	49.4	39.2	45.8	-	-	-	64.6	19.2	26.3	34.1	41.9	7.7	42.6	23.9	2	25.9	23.2	-	-	69	53.7	16.3	12.9	24.8
49	JH 13044	50.7	19.2	28.5	47.6	37.4	-	8.7	32	69.2	63.4	29.6	26.6	31.2	20	23.6	-	39.8	-	21.5	-	-	105	27.3	40.2	3.5	22.9	
50	PMSW 4	37.5	0.4	8.5	-	10.3	-	6.3	9.2	-	-	-	-	-	-	-	3	3.4	-	-	41	-	-	185	26.5	24	19.5	0
51	PM 14104L	32.5	10.8	71.1	31.7	34.7	-	-	6.5	24.2	17.9	2.7	44.4	17.6	93.9	35.8	51	11.9	-	31.7	-	-	93.1	55.5	67.8	17.8	23.7	
52	CP.555	21.6	20.9	42.8	47.6	33.2	19.2	0.3	34.6	25.8	60.7	29.4	42	23.6	85.8	6.3	40.6	23.7	3.3	31.5	-	12	5.4	201	39.2	31.7	26.8	30.5
53	JH 13183	41.8	24.4	49.5	14.7	31.3	-	43.1	35.7	22.5	39.5	26.7	-	-	41.5	3.5	3.3	-	-	1.6	8.4	17.6	-	61.9	42.8	71.8	20	17.3
54	DMRH1411	26.6	33.2	17.8	33.6	28.4	65	27	7.2	32.7	8.1	28.2	17.7	-	37.2	10.6	3.9	-	-	-	32.6	1.5	-	54.9	38.1	80.5	23.1	17
55	JH 12150	18.7	14.2	72.6	31.2	32.1	17.4	28.7	21.4	34.3	34.3	26.9	26	26.2	24.1	25	36.6	13.9	27.6	25	15.7	-	-	190	38.2	91.4	20.8	26.1
56	Gin 02	42.6	0.3	74	41.8	38.2	-	7.3	12.2	35.9	32.8	17.5	13.4	7.8	36.5	27.8	11.7	8.9	-	11	35.7	4.8	-	177	-	37.2	19	20.2
57	BH 412140	24.3	15.4	31.4	29.3	24.9	30.6	11.9	3	15.4	40.9	20.7	-	11	36.6	15.8	30.5	18.1	-	13.9	-	-	231	40	38.1	14.4	17.9	
58	NT 6325	35.3	17.6	81.9	20.8	36.2	24.9	-	-	18.3	39.9	14.8	27.8	26	59.1	60.8	30.3	31.3	26.8	36	54.7	-	-	4.3	46.5	42.2	17.9	28
59	DMRH1308	35.8	15	75	23.1	35	54.1	16	3.5	1.2	29	21.4	26.5	2.1	76	53	39.2	57	51.3	39.8	33.7	3.9	-	181	14.8	81.4	28.7	32.7
60	ADV 1190384	11.1	18.3	70	66.6	40.8	37.3	1.8	11	15.2	71.8	28.7	35.4	48.7	24	32.8	29.4	44.4	11.7	34.7	-	-	7.6	24.5	45.9	-	27	
61	HT 51412373	14.1	9.9	48.4	18.7	21.4	-	46.2	-	-	17.6	5.5	50.3	8.3	76.9	4.9	39.8	43.2	-	31.3	-	8.2	-	240	12.1	82.3	21.4	21.8
62	SAFAL X-2	21.9	1.7	62	41.8	30.7	18.7	13.4	5.6	9.5	42.1	18	-	44.3	-	44.8	5.2	45	-	14.8	-	13.6	-	207	28.1	-	10.7	18.2
63	JH 13197	32.9	43.2	7.6	36.5	31.3	7.8	0.3	15.6	34.8	10.7	14.1	15.5	-	37.3	0.8	15.7	-	-	3.8	-	-	66.6	5.9	11.1	-	10.3	
64	super 6768	21.4	12.3	47.4	22.7	24.8	10.2	5.2	5.3	-	9	1.2	17.5	28.8	66.2	22.9	23.9	15.9	11.9	25.9	-	2.5	-	74.5	16.5	44.4	11.6	17.7
65	JH 13278	29.8	14.8	83.4	47.8	42.2	26.5	-	8.2	2.7	33.4	14.9	30.6	11.6	98.7	37	7.5	28.9	3.7	30	-	4.8	-	93.3	2.7	144	23.8	28.4
66	IN 8570	25.6	13.7	47.3	48	33.5	36.6	42.2	36.2	7.4	18.9	28.1	31.3	38.5	78.6	39.6	9.6	27.6	27.3	36.1	-	32	-	65.1	4.2	11.8	1.4	26.5
67	GPMH-1111	35.8	11.3	1.6	26	19.9	21.1	0.1	13.2	-	-	0.8	35.2	-	40.3	5.2	7.8	-	-	6.7	28.4	24.6	-	61.1	49.5	46.1	23	12
68	JH 13248	11.1	15.9	54.6	46.8	31.4	-	9.8	30.9	4.2	21.5	12.7	32.7	-	53.7	20.3	18.9	-	-	10.9	17.9	0.4	-	70.2	72.4	17.4	17.3	

TABLE No. 1 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM11																										
		ZN 2						ZN 3						ZN 4						ZN 5						OV'L		
		KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	JHAB	UDAI	MEAN	MEAN
69	SAMH-378	14.1	8.2	51.9	44.5	29.1	12.3	17.3	36.5	27.3	-	12.7	0.6	-	41.1	12.5	34.2	18.4	-	7.9	14.7	-	-	132	30.6	13.6	11.4	14.4
70	KH-2192	21.9	10.6	95.2	34.9	37.7	36.3	23.5	6.2	30.6	25.5	24.3	32	25.7	67.7	77.5	19.1	14.1	11.2	34.1	15.8	38.4	-	203	31.2	72.1	36.5	33.5
71	ADV 0990293	32.9	24.7	48.3	110	56	35.2	10.1	-	4.8	22.2	12	63.1	37.2	55.8	33.7	-	37	-	33.2	-	29.3	-	275	33.1	37.4	28.2	33.1
72	JH 13252	21.9	34.8	77.3	60.2	47.4	8	-	18.5	-	61.7	13.7	21.5	29.9	91.5	40.4	-	5.6	-	25.2	31.5	24.4	-	217	80.4	138	57.6	34.9
73	NMH 1605	32.9	30.2	21	31.8	29.5	43.4	1.1	41.4	14	6.1	22.7	14	9.6	49.3	28.8	3.8	9.8	-	14	-	2.4	-	4.1	13.3	43.5	6.5	17.7
74	GPMH-1101	21.4	9.5	17.3	16.7	16.2	-	-	9.1	2.9	-	-	22.1	-	41.3	24.2	0.5	-	-	4	53.6	-	-	105	60	66.5	20.6	8.8
75	PM 14101L	26.6	12.1	73.5	64.7	43.5	30.2	-	-	-	61.9	5	54	29.5	60.8	66.1	49.3	50.6	-	42.4	-	-	-	118	27.1	50.6	10.7	28.5
76	CMH12-667	22.7	21.6	63.3	45.7	37.3	25.5	25.1	25.5	32.7	53.6	32.6	34.8	26.7	59.1	11.9	19.8	15.1	-	23.9	38.9	9.9	-	170	47.6	71.6	29.4	29.9
77	BH 412141	35.8	24.4	39.3	27.4	31.3	7.8	-	20.2	21.2	-	9.3	23.6	-	43.8	6	60.4	28.9	-	19.8	-	16	-	195	56.9	27.1	22.5	20.9
78	Srikar 3033	11.1	7.9	31.5	7.1	13.3	33.9	-	25.4	7.1	46.8	22.1	47.3	32.5	85.1	11.3	16.4	-	-	22.8	-	5.2	-	283	46.1	90.7	33.7	22.8
79	JH 13282	7.6	2.9	48.6	29.2	21	1.4	30	27.3	62.7	33.7	30.2	7.2	-	63.8	41.6	27.7	-	-	12.7	26.3	17.6	-	224	61.9	165	53.3	26.7
80	IN 8903	10.3	-	104	39.4	29.5	32.3	-	23.1	-	22.3	12.7	62.8	-	55.3	30.2	20.7	53.5	-	30	23.1	9.7	-	115	89.2	45.6	26.7	25.7
81	GYH-0652	-	15.6	19.1	-	3.6	-	53	12.5	-	-	0.7	-	-	-	-	-	-	-	-	-	-	-	168	1.3	41	10.6	-
82	NMH 1008	13.7	3.9	65.5	55.2	33.7	-	17.9	18.4	-	13.3	4.6	16.2	18.7	66.9	46.3	12.8	17.6	-	22.9	23.1	-	-	83.6	48.3	2.2	11	19.2
83	GK-3124	2.9	5.1	81.8	44.9	31.6	37.4	10.5	19.3	19.7	86.8	35.9	39	29.3	39.6	4	8.7	23.1	19.4	24.8	31.5	26.5	-	33.3	46.1	33.1	19.3	27.4
84	ADV 0990296	8.2	3.3	78.9	46.6	32.4	-	25.7	23.9	0.5	56.1	19	41.2	27.1	62	59.1	17.6	29.8	44.4	39.2	13.7	24.7	-	221	61.4	76.5	37.5	33.3
85	CMH11-618	-	12.4	34.3	60.4	26.4	-	-	20.8	-	55.9	6.3	26.6	49.6	65.5	37.4	0.8	8.9	52.3	34.4	26.2	4.1	-	66.5	18.2	33.7	11.6	22.1
86	REH2013-5	3.7	19.5	0.5	6.4	7.8	-	13.4	25.4	-	-	-	-	2.5	2.7	-	-	18.7	-	-	18.9	-	-	75.7	40.5	10.2	5.8	0.2
87	DAS-MH-106	16.7	-	98.9	50	38.2	39.4	2.9	16.9	24.6	24.1	22.5	47.8	48.8	46.7	30.3	16.6	39.6	9.5	36.9	13.6	-	-	-	59.7	-	-	25.8
88	JH 13244	-	15.5	32.5	35.1	20.3	37	14.2	20.5	60.3	40.3	34.9	16.2	-	13.5	10.5	24.7	7.5	-	3.8	47.3	-	-	233	30.4	23.6	31	19.5
89	AMH-3436	9.5	36.7	47	56.4	37.4	48.1	33.3	13.8	22.5	29.3	29.3	24.8	8.5	60	-	19.7	41.4	-	21.4	41	-	-	157	52.7	-	16.2	25.5
90	IN 8603	5.7	28	104	27	37.5	37.2	47.5	29.6	20.9	2.4	26.8	27.4	7.4	42.8	61.1	42.7	37.1	-	29.2	42.1	9.9	-	38.3	52.5	-	10.3	26.6
91	JH 13230	5.1	31.1	67.3	60.3	40.1	39.3	-	14.7	-	53.9	21.7	39.6	28.1	55.7	20.7	6.7	22.2	-	25.2	-	15.4	-	99.5	82.5	47.7	23.5	27.5
92	DAS-MH-107	0.1	18	47.1	71.1	34.5	44.5	35.6	-	13.5	11.5	18.6	47.8	9.8	5.4	38.6	26.2	45.2	-	23.8	21	15.6	-	78.6	77.4	35.6	20.1	24.4
93	IAHM 2013-12	6.4	10.4	45.9	39.7	25	4.2	21.5	23.3	-	-	5.5	-	-	-	2.7	-	11	-	-	18.9	-	-	-	12.8	-	-	0.6
94	JH 12010	2.7	9.3	50.9	37.6	24.2	17.2	-	36.9	34.4	25.1	20.7	1.1	-	80.1	19.4	15.1	1	-	11.9	24.1	16.3	-	280	29.5	105	42.4	22.9
95	BH 412131	-	13.4	41.6	8.2	12.1	14.2	2.3	9.5	13.4	15.2	11.3	12.7	-	24.9	-	43.9	7.2	-	7.8	4.2	2.3	-	135	51.6	32.9	19.2	11.9
96	Super 1177	8.2	29.5	103	51.3	45.2	13.8	65.6	31.7	38.5	2.5	28.5	52.7	26.2	104	38.6	29.6	17.5	-	36.2	22.1	40.7	-	154	32.9	91	30.6	35.5
97	Super 777	4.4	12.1	32.2	43	23.1	12.8	8.4	18.3	-	46.5	17.6	2.8	34.8	19	24	21.9	-	-	14	7.3	0.7	-	111	21.9	39.4	9.9	15.9
98	GH-110145	27.4	24.3	1.6	4.2	14.8	-	2	16.5	5.9	-	-	-	-	35.9	-	7.3	3.5	8.5	-	25.2	-	-	2.8	30.6	12.9	4.2	2.1
99	JH 13045	33.4	2.2	53.1	54.5	35.7	11.1	31.9	-	-	26.2	12	11.3	36.8	104	10.5	36.5	49.5	-	31.5	32.6	-	-	139	8.1	44.7	16.8	25.4
100	JH 13037	16.7	0.9	30.1	21.8	16.9	-	19.7	25.4	21.3	17.4	12.3	39.2	-	17	15.6	-	20.9	42.1	17.4	11.6	-	1.8	64.4	6.5	63	15.8	15.9
101	MAH-974	-	21.9	8.2	10.4	10	34.4	-	36.8	-	-	2.9	-	-	52.8	-	19.3	14.6	-	-	14.7	0.3	-	135	28.3	35.3	18.4	6.7
102	BH 412096	19	34.2	16.9	9	19.5	71.2	4.3	14.7	-	17	20.9	16	3.1	45.3	26.7	-	-	7.6	12.8	27.4	-	-	100	37.3	33.6	17.8	17

TABLE No. 1 (Cont..)

S.No.	PEDIGREE	GRAIN SHELLING %																										
		ZN 2				ZN 3							ZN 4						ZN 5			OV'L						
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean	Mean
1	GPS -03	75.3	67.3	85.0	80.8	77.1	71.6	80.7	80.5	82.2	75.5	78.1	82.1	75.3	68.0	76.2	80.3	79.1	74.0	76.4	79.8	70.3	85.9	86.8	79.3	83.1	80.9	78.1
2	DMRH1416	74.0	67.4	84.4	81.7	76.9	72.7	79.2	79.5	81.5	75.7	77.7	83.8	80.7	80.3	81.0	69.1	81.1	73.7	78.5	80.8	71.6	86.9	82.5	83.9	83.4	81.5	78.9
3	HT 51412607	73.3	70.0	85.1	84.0	78.1	78.1	80.0	82.0	84.8	76.9	80.4	83.8	82.0	64.0	82.2	81.4	78.7	75.3	78.2	81.2	72.9	85.8	91.0	80.5	83.0	82.4	79.8
4	GPS -02	74.3	68.7	86.0	85.2	78.5	74.6	79.6	81.0	82.2	75.3	78.5	81.7	83.3	72.5	82.2	79.4	82.0	75.1	79.5	80.4	72.8	82.3	82.0	78.9	82.5	79.8	79.2
5	SYN417750	72.7	67.5	82.1	83.2	76.4	79.1	78.4	79.5	85.1	79.1	80.2	85.0	84.4	73.0	85.6	66.1	82.9	75.1	78.9	80.1	73.6	86.8	85.6	86.7	83.4	82.7	79.8
6	DMRH1415	76.0	69.9	84.5	80.0	77.6	79.2	79.7	82.0	83.7	76.6	80.2	82.9	80.1	81.1	79.6	82.3	79.6	76.7	80.3	79.9	71.8	83.8	87.3	84.3	83.0	81.7	80.2
7	GH-110204	75.3	65.4	85.5	83.3	77.4	74.1	78.9	79.0	83.0	76.2	78.2	82.8	81.3	77.3	79.3	79.1	83.4	73.7	79.5	79.7	71.8	84.7	83.2	76.7	82.9	79.8	78.9
8	KH-1408	74.7	66.5	83.4	80.6	76.3	74.3	80.7	78.0	82.0	75.6	78.1	83.1	77.5	66.2	78.1	88.3	82.4	71.0	78.1	80.2	73.2	84.0	79.9	77.1	83.2	79.6	78.2
9	NMH-1247	74.3	66.5	86.8	84.2	77.9	75.5	80.1	82.0	86.4	75.6	79.9	85.1	81.2	73.4	79.5	80.3	82.0	76.1	79.7	81.7	73.2	82.9	84.1	85.7	82.9	81.7	80.0
10	HKH422	71.3	69.3	86.6	79.3	76.6	71.6	79.2	81.0	81.5	77.0	78.1	81.5	75.8	67.8	74.4	78.2	80.9	75.4	76.3	80.5	73.8	83.1	83.0	76.2	83.3	80.0	77.8
11	VEH 14-1	71.3	68.0	85.2	83.0	76.9	76.7	79.1	82.0	85.6	76.8	80.0	81.7	80.3	73.8	78.5	81.1	80.9	75.3	78.8	81.4	75.0	86.1	83.8	80.2	83.1	81.6	79.5
12	PM 14102L	71.3	69.7	85.8	83.1	77.5	75.9	80.5	83.0	86.2	76.0	80.3	85.0	81.1	65.7	77.8	69.2	81.5	76.4	76.6	80.4	74.8	82.6	84.9	75.5	83.4	80.3	78.6
13	Gin 01	71.7	68.8	84.7	81.2	76.6	76.7	80.3	80.0	81.0	78.1	79.2	82.2	78.0	71.4	82.0	84.1	79.9	73.5	78.7	80.3	70.5	85.1	86.9	79.3	83.3	80.9	79.0
14	JH 13023	73.3	67.5	85.6	82.2	77.2	79.1	81.9	82.0	86.1	76.8	81.2	83.7	82.7	75.1	78.8	77.1	81.4	71.9	78.7	80.0	72.1	81.9	83.8	75.0	83.6	79.4	79.2
15	115-08-01	74.7	66.4	86.2	81.5	77.2	73.7	79.0	79.0	82.9	76.1	78.1	84.5	82.0	76.1	78.8	81.1	83.4	75.9	80.2	79.2	74.4	84.0	82.0	76.0	82.5	79.7	79.0
16	KF-110	73.7	66.5	85.0	83.4	77.1	75.7	80.5	81.5	83.4	77.2	79.6	81.4	83.8	78.4	86.5	88.1	79.1	74.6	81.7	79.2	73.6	85.2	87.0	82.2	83.3	81.7	80.4
17	PM 14106L	72.3	66.2	85.4	82.6	76.6	78.9	78.2	78.0	82.9	77.8	79.2	85.0	83.7	73.4	79.7	91.0	82.9	76.4	81.7	81.2	72.7	86.4	83.8	80.5	82.7	81.2	80.1
18	PM 14105L	71.3	67.7	86.7	85.8	77.9	77.9	79.3	82.0	85.9	81.9	81.4	89.6	84.6	80.7	85.1	57.1	82.2	76.2	79.3	81.0	71.2	85.4	85.9	82.3	83.3	81.5	80.1
19	Bio-069	70.3	69.0	86.2	81.9	76.8	78.1	77.9	82.0	86.1	78.7	80.5	83.7	81.1	75.3	80.0	79.7	81.1	71.7	78.9	79.2	74.0	84.4	78.8	77.4	82.7	79.4	79.1
20	PMSY -3	71.3	67.2	85.7	83.1	76.8	73.6	79.2	81.5	82.4	76.3	78.6	83.5	78.6	75.9	80.2	74.1	78.6	73.1	77.7	79.2	72.4	87.0	81.2	75.0	82.9	79.6	78.3
21	NT 8441	73.3	66.1	85.1	85.0	77.4	75.3	80.1	82.0	83.9	76.9	79.6	82.7	84.0	73.9	83.6	83.2	81.0	74.0	80.3	80.5	72.6	88.9	79.6	75.6	82.6	80.0	79.5
22	Proline-2404	71.3	67.7	84.5	81.6	76.3	82.3	78.9	81.0	84.1	75.1	80.3	84.1	78.6	75.7	78.3	68.2	80.7	73.8	77.1	81.1	74.8	86.3	80.6	77.8	82.4	80.5	78.6
23	siri -4555	73.3	68.3	87.0	83.9	78.1	79.1	77.8	82.5	83.4	76.0	79.7	83.9	79.9	74.1	82.7	75.7	82.2	75.8	79.2	79.7	73.2	84.6	82.0	77.9	83.3	80.1	79.4
24	JKMH 4242	75.7	68.6	86.9	85.8	79.2	78.4	78.4	82.0	80.6	74.7	78.8	87.1	80.8	79.7	82.5	87.9	79.3	76.4	81.9	79.5	73.5	82.4	79.2	74.9	82.7	78.7	79.8
25	GOLD 1166	77.3	67.3	83.8	79.7	77.0	81.2	77.9	82.0	83.9	75.5	80.1	82.4	81.1	77.1	77.7	79.0	80.6	76.0	79.1	82.2	74.1	84.0	86.0	78.5	83.3	81.4	79.6
26	VNR 4325	76.7	65.3	80.5	85.4	77.0	79.3	79.2	79.0	82.7	79.3	79.9	88.0	83.4	75.7	84.9	78.2	80.5	75.9	80.9	81.6	77.4	88.0	82.7	80.2	82.6	82.1	80.3
27	CMH12-671	72.7	69.6	85.6	83.1	77.7	73.3	81.6	80.0	81.2	76.8	78.6	82.3	79.8	75.8	79.1	80.0	83.1	76.8	79.5	80.8	73.1	84.1	84.1	80.7	83.3	81.0	79.4
28	HT 51412616	73.0	69.2	86.5	82.3	77.7	79.1	80.7	81.0	82.8	78.6	80.4	87.1	82.8	80.4	81.6	66.4	83.5	75.0	79.5	81.3	72.3	86.9	81.4	79.0	82.4	80.5	79.7
29	CMH10-555	74.7	66.4	87.2	85.3	78.4	78.5	79.4	79.5	86.4	80.7	80.9	85.6	83.4	77.8	81.1	85.2	81.4	73.3	81.1	80.9	71.5	84.8	79.0	84.6	83.5	80.7	80.4
30	CMH12-663	73.7	67.2	85.8	81.7	77.1	82.2	80.1	82.0	83.0	77.3	80.9	81.2	74.9	70.1	73.5	85.8	80.7	76.7	77.5	79.3	72.5	83.8	79.2	74.4	82.4	78.6	78.5
31	DKC9125	75.7	68.1	86.1	83.8	78.4	73.8	81.0	81.0	81.6	75.7	78.6	84.0	80.3	74.6	83.1	72.3	81.8	76.0	78.9	79.9	71.4	83.8	82.3	77.1	82.6	79.5	78.9
32	KMH-3981	73.7	67.1	84.3	82.8	77.0	74.6	79.6	79.5	80.9	75.3	78.0	84.1	80.9	77.5	79.7	75.8	81.1	75.0	79.1	78.9	72.9	85.8	80.6	78.3	82.3	79.8	78.7

TABLE No. 1 (Cont..)

S.No.	PEDIGREE	GRAIN SHELLING %																										
		ZN 2					ZN 3					ZN 4					ZN 5					OV'L						
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean	Mean
33	DMH-192	73.3	68.4	85.5	82.5	77.4	79.5	79.4	78.0	87.4	80.0	80.9	86.5	84.0	77.3	82.3	70.2	78.8	70.7	78.5	81.9	75.2	84.8	83.0	79.2	83.4	81.2	79.6
34	DMRH1413	71.3	69.2	87.2	80.9	77.2	-	79.1	82.0	82.7	76.7	80.1	85.8	84.8	65.1	83.2	79.2	82.8	71.4	78.9	81.5	63.3	85.0	86.6	78.0	83.2	79.6	79.0
35	K-25 Gold	75.3	68.5	85.0	84.2	78.2	71.3	78.5	81.5	83.5	74.8	77.9	84.6	82.0	75.8	81.9	88.8	81.6	77.4	81.7	80.8	69.1	85.6	86.8	81.6	83.3	81.2	80.1
36	IN 8569	76.0	66.3	87.4	82.8	78.1	75.0	81.9	82.0	82.8	75.5	79.4	85.6	76.9	73.1	78.3	81.1	82.4	78.0	79.3	80.3	71.9	85.8	81.9	73.4	82.6	79.3	79.1
37	GK-3118	77.0	65.3	83.6	88.7	78.6	78.8	80.1	81.5	83.4	77.0	80.1	86.8	83.2	80.0	83.0	91.0	81.5	76.4	83.1	80.1	70.3	82.0	67.9	76.7	82.4	76.6	79.8
38	DMRH1409	76.7	67.5	83.9	82.1	77.6	76.5	78.3	80.0	83.0	76.2	78.8	83.9	81.8	80.2	84.3	72.1	79.9	75.0	79.6	80.6	73.3	81.5	86.7	73.8	82.7	79.8	79.1
39	VNR 31862	74.7	65.6	85.1	84.0	77.3	77.4	78.2	82.0	84.3	77.0	79.8	80.6	83.8	78.0	86.5	76.0	81.4	74.0	80.0	80.4	69.0	87.6	77.4	85.0	82.8	80.4	79.6
40	MAH-957	77.3	65.8	87.2	80.6	77.7	70.5	77.3	82.0	84.6	74.4	77.7	82.5	79.5	75.7	82.7	81.0	83.0	74.8	79.9	80.2	73.1	85.9	82.4	81.1	82.4	80.9	79.3
41	DMH-7721	74.3	67.5	82.5	84.8	77.3	80.2	80.4	84.0	82.8	76.8	80.8	83.5	82.1	73.2	81.1	81.6	78.8	75.8	79.4	80.5	75.5	85.8	80.9	79.8	83.0	80.9	79.8
42	NT 8711	72.7	68.3	84.6	82.0	76.9	75.5	70.7	82.0	81.5	76.4	77.2	81.5	79.0	67.5	76.8	75.8	81.1	75.4	76.7	80.5	74.7	85.2	83.5	77.4	83.3	80.7	78.0
43	JH 13249	75.0	65.7	85.1	82.5	77.1	78.4	80.8	80.0	80.7	78.9	79.7	84.2	82.8	74.0	81.5	78.1	81.4	74.1	79.4	79.9	73.2	84.9	86.8	77.7	83.1	80.9	79.5
44	SAMH-225	72.0	68.9	84.4	76.9	75.6	76.8	80.0	82.0	81.8	77.7	79.6	80.4	73.6	64.8	77.4	80.3	82.1	75.2	76.3	80.3	76.1	87.2	75.2	77.3	83.2	79.9	77.9
45	JH 13041	74.7	66.4	85.9	81.7	77.1	77.1	79.6	79.5	83.6	75.9	79.1	82.4	76.7	74.4	78.0	88.1	82.6	75.8	79.7	80.2	76.0	88.0	85.0	81.4	83.2	82.3	79.8
46	JH 12063	75.7	69.2	84.4	82.7	78.0	75.8	81.0	80.0	83.3	76.2	79.3	81.9	80.1	75.6	80.6	76.2	82.9	73.0	78.6	79.8	71.6	84.4	79.5	77.9	82.2	79.2	78.8
47	JH 13094	77.0	67.1	83.5	83.7	77.8	75.6	78.7	82.0	82.4	79.0	79.5	84.4	79.2	78.7	79.6	60.0	80.6	77.0	77.1	80.6	73.3	85.3	82.8	81.1	83.2	81.0	78.9
48	RMH-726	74.0	67.9	83.5	82.8	77.0	78.7	77.9	79.0	82.6	76.2	78.9	85.7	81.0	76.4	82.6	86.1	82.2	77.3	81.6	80.2	72.1	83.4	85.1	82.0	82.8	80.9	80.0
49	JH 13044	76.0	67.0	83.8	82.8	77.4	76.9	79.2	82.0	84.3	77.8	80.0	85.0	82.2	71.9	81.4	79.2	83.1	74.6	79.6	80.0	74.3	84.0	92.6	81.5	83.4	82.6	80.1
50	PMSW 4	75.3	66.7	84.9	78.5	76.4	77.6	78.7	82.0	83.5	76.2	79.6	83.1	76.7	76.4	81.4	84.2	83.4	73.2	79.8	81.2	74.2	84.0	84.5	76.9	82.4	80.5	79.3
51	PM 14104L	75.3	67.8	81.4	77.1	75.4	76.6	79.0	81.0	84.7	75.3	79.3	82.5	83.5	78.8	80.3	84.0	83.4	74.9	81.0	79.8	68.9	84.9	83.3	81.3	83.5	80.3	79.4
52	CP.555	73.3	66.4	84.8	83.3	76.9	79.0	80.0	80.0	86.0	77.0	80.4	86.2	84.0	71.1	83.4	83.8	81.1	75.3	80.7	80.7	72.4	85.0	92.1	86.2	82.7	83.2	80.6
53	JH 13183	74.7	65.8	86.4	82.8	77.4	79.9	79.9	79.5	83.7	76.1	79.8	83.8	81.6	76.2	81.3	82.3	80.6	74.8	80.1	80.5	76.4	82.5	79.7	76.9	83.3	79.9	79.5
54	DMRH1411	75.3	70.0	86.6	84.6	79.1	79.8	80.9	79.5	82.7	78.2	80.2	82.0	81.8	74.8	82.5	81.9	75.0	74.5	78.9	80.7	73.6	81.4	84.0	80.7	82.9	80.5	79.7
55	JH 12150	73.7	68.3	85.3	80.1	76.8	72.7	80.4	80.5	84.3	76.4	78.8	79.8	77.0	64.9	77.9	81.8	80.5	75.6	76.8	80.2	70.5	83.7	81.1	79.3	83.5	79.7	78.0
56	Gin 02	75.7	67.2	84.0	83.0	77.5	74.2	80.0	82.0	84.7	76.5	79.5	81.5	78.9	74.7	78.8	78.1	82.9	70.9	78.0	80.0	74.3	86.8	85.3	80.6	83.4	81.7	79.2
57	BH 412140	72.3	67.6	86.2	80.6	76.7	77.9	78.2	82.0	84.6	77.7	80.1	83.2	83.0	76.7	82.5	79.3	80.9	76.1	80.2	79.5	71.4	86.5	84.9	82.9	82.8	81.3	79.9
58	NT 6325	75.3	66.4	85.5	84.0	77.8	76.9	78.6	79.5	84.0	76.9	79.2	83.6	81.9	77.2	79.8	80.2	81.6	76.5	80.1	80.8	72.3	84.0	84.6	81.4	83.0	81.0	79.7
59	DMRH1308	76.7	68.3	86.6	82.9	78.6	77.7	81.9	79.5	84.6	77.8	80.3	83.9	82.6	73.0	78.1	78.8	82.5	78.2	79.6	82.1	73.0	85.1	88.4	80.8	83.3	82.1	80.3
60	ADV 1190384	75.3	67.8	84.5	85.1	78.2	78.4	79.1	79.5	84.8	80.7	80.5	86.0	83.3	76.7	82.8	81.9	83.4	75.3	81.3	80.4	70.9	85.8	84.1	84.7	83.1	81.5	80.6
61	HT 51412373	73.7	65.8	81.2	81.5	75.5	80.4	81.2	80.5	81.8	76.8	80.1	84.8	79.1	81.0	78.2	78.6	81.6	75.6	79.9	81.9	74.9	83.0	83.5	80.3	82.9	81.1	79.5
62	SAFAL X-2	74.3	68.9	84.2	83.1	77.6	75.5	77.5	79.5	86.3	76.6	79.1	83.1	78.9	76.8	76.9	86.1	80.5	75.1	79.6	81.4	74.0	86.0	78.6	81.1	82.9	80.7	79.4
63	JH 13197	75.0	68.9	85.5	77.5	76.7	73.7	78.6	80.0	84.8	74.8	78.4	85.8	80.1	72.6	77.5	71.4	80.6	74.2	77.4	80.1	70.4	82.8	82.6	81.4	82.9	80.0	78.2
64	super 6768	74.3	68.1	86.0	87.5	79.0	76.7	78.2	82.5	83.5	78.0	79.8	83.9	83.6	81.7	82.2	73.0	81.0	74.1	79.9	80.3	73.1	83.6	84.1	81.6	82.8	80.9	80.0

TABLE No. 1 (Cont..)

S.No.	PEDIGREE	GRAIN SHELLING %																										
		ZN 2				ZN 3				ZN 4				ZN 5			OV'L											
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean	Mean
65	JH 13278	72.7	68.4	85.0	79.9	76.5	79.1	79.7	79.0	84.2	81.0	80.6	85.4	83.0	78.5	84.0	65.2	81.2	76.5	79.1	79.4	74.8	86.3	85.3	74.7	82.8	80.5	79.4
66	IN 8570	76.0	66.7	86.1	82.3	77.8	77.4	80.9	83.0	83.7	78.0	80.6	83.5	80.9	72.9	78.9	78.3	79.9	76.1	78.6	79.3	74.4	84.6	73.4	78.8	83.4	79.0	79.0
67	GPMH-1111	76.7	67.4	83.0	85.0	78.0	76.9	80.4	81.0	84.7	77.9	80.2	82.8	82.8	75.7	79.4	76.0	79.4	74.9	78.7	80.2	74.7	84.2	81.8	76.3	83.3	80.1	79.3
68	JH 13248	75.3	68.7	85.3	85.0	78.6	76.3	79.6	80.0	86.6	74.7	79.4	85.1	78.9	66.9	79.8	84.1	78.4	76.8	78.6	80.6	67.8	84.1	63.2	80.8	82.8	76.5	78.2
69	SAMH-378	73.7	69.1	87.9	83.0	78.4	77.5	80.7	81.0	84.1	75.1	79.7	82.2	84.9	74.8	80.9	89.2	82.0	74.1	81.1	80.1	70.6	85.0	78.2	78.5	82.7	79.2	79.8
70	KH-2192	74.3	67.9	87.1	82.3	77.9	74.5	79.2	80.5	80.5	75.4	78.0	82.6	79.4	76.6	79.6	81.2	80.9	76.0	79.5	81.5	74.3	83.6	79.5	83.4	82.5	80.8	79.2
71	ADV 0990293	75.0	68.3	87.4	82.5	78.3	78.4	79.6	81.0	82.9	79.8	80.3	85.6	81.7	76.3	82.6	69.3	80.4	75.9	78.8	80.3	73.6	81.7	91.5	83.3	83.1	82.2	80.0
72	JH 13252	74.3	67.7	87.0	83.4	78.1	79.8	78.4	83.0	84.4	78.9	80.9	84.0	85.1	73.6	82.9	70.1	80.0	73.7	78.4	81.2	74.1	88.1	81.9	78.7	82.9	81.2	79.7
73	NMH 1605	75.0	68.1	86.8	84.4	78.5	74.8	79.7	84.0	83.4	75.3	79.4	81.6	76.3	68.9	75.8	71.2	83.4	75.4	76.1	81.1	73.2	84.8	80.6	82.4	83.5	80.9	78.6
74	GPMH-1101	74.3	66.8	84.7	80.9	76.7	74.3	78.3	82.0	86.4	74.9	79.2	82.9	82.5	79.2	80.2	83.9	82.9	75.3	81.0	80.2	71.4	85.6	82.0	77.4	83.4	80.0	79.5
75	PM 14101L	72.7	69.8	84.0	83.2	77.4	69.1	79.1	80.0	85.0	74.3	77.5	85.0	80.6	79.5	79.2	84.9	80.1	74.7	80.6	80.6	73.2	82.1	83.2	77.1	83.3	79.9	79.1
76	CMH12-667	76.0	68.3	84.9	80.5	77.4	74.6	80.3	79.0	86.2	75.3	79.1	83.4	81.3	75.0	78.4	82.1	83.9	75.8	80.0	81.5	74.9	87.2	84.8	82.3	83.1	82.3	79.9
77	BH 412141	76.7	66.7	85.9	78.9	77.0	72.4	79.3	79.0	83.8	73.6	77.6	81.0	79.2	70.8	79.4	87.2	81.4	72.2	78.7	79.9	74.5	83.0	81.6	82.0	82.8	80.6	78.7
78	Srikar 3033	75.3	66.6	84.1	82.3	77.1	72.4	79.0	81.0	82.2	75.4	78.0	84.5	79.3	80.9	80.3	76.1	80.0	73.5	79.2	80.1	72.7	84.0	83.2	84.7	83.1	81.3	79.1
79	JH 13282	74.3	67.1	84.5	84.2	77.5	70.8	80.5	79.5	88.2	72.8	78.4	82.0	79.6	74.6	79.3	87.2	79.4	72.5	79.2	81.1	73.6	90.3	83.2	77.0	82.6	81.3	79.3
80	IN 8903	75.0	69.5	85.1	80.3	77.4	71.3	78.2	83.0	82.7	73.7	77.8	79.8	78.0	73.1	77.1	90.3	80.9	74.4	79.1	80.1	73.1	84.1	70.7	79.8	82.2	78.3	78.3
81	GYH-0652	74.3	66.6	86.9	75.5	75.8	77.6	80.5	79.0	84.3	73.4	79.0	82.9	81.3	72.2	72.4	83.8	79.1	72.2	77.7	81.0	73.7	86.1	85.4	84.0	83.3	82.2	78.9
82	NMH 1008	75.0	66.9	83.1	84.6	77.4	76.6	79.2	81.5	86.9	74.1	79.6	85.0	82.3	78.9	82.4	77.2	81.3	75.3	80.3	79.6	72.3	84.2	82.9	75.2	83.0	79.5	79.4
83	GK-3124	74.3	67.1	86.4	82.5	77.6	76.6	77.8	80.0	82.9	77.5	78.9	86.0	81.6	71.5	82.4	69.0	82.9	75.5	78.4	81.1	74.9	81.4	85.9	83.0	83.0	81.5	79.2
84	ADV 0990296	72.7	67.8	85.1	87.3	78.2	78.5	79.0	82.0	82.4	81.1	80.6	86.7	82.8	74.4	83.8	85.0	82.9	77.0	81.8	80.6	76.7	85.4	79.1	86.3	82.6	81.8	80.9
85	CMH11-618	76.0	67.6	81.6	83.7	77.2	75.0	77.2	81.0	83.9	74.8	78.4	82.1	83.0	78.1	80.2	75.2	79.6	75.8	79.1	78.9	74.0	83.3	84.7	81.2	82.8	80.8	79.1
86	REH2013-5	76.7	67.5	86.9	80.6	77.9	78.7	77.8	81.0	85.0	73.0	79.1	82.8	80.1	78.6	81.3	77.9	81.1	73.0	79.3	79.6	71.8	83.1	83.6	81.2	83.1	80.4	79.3
87	DAS-MH-106	75.3	67.3	85.9	82.9	77.9	79.9	79.6	81.5	85.3	77.5	80.8	87.0	83.4	75.9	85.3	86.3	83.1	76.1	82.4	79.2	69.6	86.0	89.6	82.1	83.3	81.6	81.0
88	JH 13244	74.3	67.1	83.8	81.2	76.6	74.5	79.2	79.5	86.5	74.1	78.8	82.7	77.1	74.2	78.9	90.2	80.1	72.9	79.4	79.1	72.7	86.6	78.9	80.6	83.0	80.2	79.0
89	AMH-3436	72.7	67.9	86.8	86.8	78.5	78.4	81.6	82.0	84.8	77.7	80.9	85.7	81.4	77.7	81.4	79.2	81.0	74.2	80.1	80.2	73.4	86.3	84.3	82.3	83.1	81.6	80.4
90	IN 8603	76.0	67.1	86.6	79.5	77.3	79.1	80.7	80.5	83.4	78.2	80.4	83.5	81.6	74.0	79.9	91.1	82.0	72.5	80.7	79.9	72.1	84.5	83.6	82.5	82.8	80.9	80.0
91	JH 13230	76.7	69.3	86.1	81.7	78.4	77.4	80.3	79.5	87.6	76.5	80.3	83.6	80.6	77.1	81.5	76.2	80.4	75.6	79.3	80.6	73.1	87.1	84.3	82.5	82.9	81.7	80.0
92	DAS-MH-107	75.3	66.8	86.6	87.9	79.2	74.4	81.1	83.0	81.6	76.7	79.4	81.8	78.6	71.9	81.5	81.4	80.9	74.5	78.7	80.9	73.3	85.9	80.6	80.7	82.6	80.7	79.5
93	IAHM 2013-12	75.3	69.4	81.6	82.8	77.3	73.5	79.2	82.0	85.9	73.2	78.8	85.1	79.1	64.3	80.0	81.2	81.2	71.9	77.5	80.1	73.2	82.2	84.7	82.2	82.8	80.9	78.7
94	JH 12010	73.7	66.5	84.9	81.7	76.7	70.9	80.3	84.5	82.7	74.9	78.6	80.1	78.9	68.7	75.4	77.1	76.5	73.0	75.7	80.2	72.0	84.5	87.7	80.6	83.2	81.3	78.1
95	BH 412131	74.3	69.4	87.7	83.7	78.8	71.5	78.9	80.0	83.2	72.4	77.2	83.3	81.0	72.6	77.5	81.1	79.2	71.8	78.1	78.6	73.7	83.8	81.8	79.4	82.8	80.0	78.5
96	Super 1177	75.0	66.9	85.7	85.4	78.2	71.5	81.4	79.0	86.2	74.7	78.5	84.5	80.9	79.9	81.0	70.9	78.7	75.3	78.7	76.8	74.9	83.0	86.2	83.4	83.3	81.2	79.3

TABLE No. 1 (Cont..)

S.No. PEDIGREE	GRAIN SHELLING %																										
					ZN 2				ZN 3				ZN 4				ZN 5		OV'L								
	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean	Mean
97 Super 777	74.3	67.4	80.6	81.0	75.8	77.9	79.6	80.0	83.2	78.8	79.9	85.3	83.7	76.4	83.2	88.9	81.0	76.1	82.1	79.1	74.1	85.0	81.5	85.1	82.6	81.2	80.2
98 GH-110145	75.0	67.6	82.5	81.3	76.6	70.1	80.0	82.0	85.6	75.3	78.6	83.6	82.4	73.9	75.4	87.9	80.3	76.4	80.0	80.4	70.9	86.1	87.5	86.7	82.6	82.3	79.7
99 JH 13045	75.3	67.7	83.2	80.4	76.7	79.2	78.9	80.0	82.1	76.4	79.3	81.7	79.3	79.7	83.3	80.3	82.4	73.9	80.1	80.2	70.7	83.0	84.0	80.2	83.0	80.2	79.3
100 JH 13037	75.3	67.4	86.0	82.4	77.8	68.4	80.5	81.0	82.8	74.7	77.5	79.5	72.4	69.9	76.1	72.9	81.7	71.4	74.8	80.3	74.8	83.6	81.0	81.1	82.8	80.6	77.5
101 MAH-974	73.7	69.3	86.1	81.0	77.5	76.8	79.7	81.0	85.2	73.2	79.2	84.3	79.6	76.0	77.8	79.3	81.9	74.1	79.0	79.0	75.3	88.1	80.3	85.6	83.0	81.9	79.6
102 BH 412096	74.3	68.4	87.0	77.6	76.8	80.9	80.7	82.0	84.8	73.8	80.4	78.4	82.0	76.3	83.0	87.2	81.4	75.3	80.5	80.7	71.4	87.4	83.6	82.7	83.0	81.5	80.1
103 PRMH-189	75.0	66.6	85.4	85.7	78.2	76.3	79.9	83.0	87.0	75.8	80.4	85.1	81.1	70.5	81.9	72.4	80.9	76.2	78.3	79.4	74.2	84.8	89.1	84.7	82.6	82.5	79.9
104 IN 8902	74.3	67.9	83.9	81.2	76.8	78.2	80.0	78.5	83.8	75.1	79.1	83.7	79.9	77.2	80.8	77.0	81.7	76.8	79.6	80.0	72.8	85.0	82.9	82.9	82.8	81.0	79.4
105 IN 8602	74.3	67.2	83.6	86.6	77.9	78.7	79.2	80.0	84.1	77.4	79.9	85.0	82.1	75.7	80.8	66.8	81.3	73.5	77.9	79.7	73.6	85.3	82.7	76.6	83.3	80.2	79.0
106 REH2013-6	73.7	68.8	84.7	80.1	76.8	74.4	78.2	80.0	85.7	74.4	78.5	82.6	81.1	71.5	77.7	81.5	80.9	72.7	78.3	80.0	72.4	85.3	75.6	79.2	82.2	79.1	78.3
107 JH 13270	73.7	69.5	85.9	82.3	77.8	70.9	78.6	83.0	84.2	74.0	78.1	81.0	76.9	62.2	72.2	66.4	82.9	74.9	73.8	79.3	73.4	84.0	82.6	77.8	83.0	80.0	77.2
108 BH 412095	76.7	67.7	86.6	81.2	78.0	77.7	81.4	78.5	83.3	75.4	79.3	83.1	80.4	80.7	83.2	81.3	82.7	74.7	80.9	79.6	76.0	81.6	82.3	80.6	83.4	80.6	79.9
109 HKH423	76.0	66.8	81.6	84.9	77.3	78.5	79.1	81.0	82.2	76.0	79.4	82.4	80.9	75.2	80.1	79.7	78.9	74.5	78.8	80.4	70.2	83.6	80.1	79.9	83.1	79.5	78.9
110 Sonam -27	75.3	69.0	85.7	89.8	80.0	70.6	78.5	79.0	81.9	74.6	76.9	82.0	79.3	75.8	74.5	83.1	81.5	72.7	78.4	80.8	72.4	83.8	83.7	81.0	82.9	80.8	79.0
111 REH2013-2	74.7	65.2	84.0	83.8	76.9	78.8	78.3	79.5	83.9	75.4	79.2	82.0	78.8	81.2	80.0	85.1	82.9	75.0	80.7	81.2	72.3	89.1	84.3	77.8	83.3	81.3	79.8
112 JKMh 4023	76.0	67.5	86.4	83.8	78.4	77.5	79.7	82.0	84.0	79.2	80.5	84.0	85.0	82.0	83.0	76.1	83.4	76.6	81.4	80.9	71.0	84.9	83.5	81.0	83.2	80.7	80.5
113 AH 7005	74.0	69.2	84.0	78.9	76.5	70.0	80.9	83.0	81.2	74.7	78.0	82.5	76.2	71.7	76.1	82.9	81.1	73.8	77.7	80.7	72.3	87.8	82.3	80.8	82.4	81.0	78.5
114 CSM-1	73.7	69.3	83.5	76.4	75.7	78.0	80.0	80.0	80.7	76.0	78.9	85.0	83.3	74.5	79.7	85.3	80.8	72.4	80.1	79.9	74.8	82.6	88.7	76.8	83.4	81.0	79.3
115 CSM-2	74.3	66.0	86.1	80.0	76.6	74.6	80.5	80.0	81.6	73.9	78.1	81.9	80.5	68.4	82.2	80.8	80.9	73.1	78.3	79.0	71.1	86.7	82.8	71.4	82.9	79.0	78.1
CHECKS																											
116 PMH1	77.0	68.1	84.4	80.0	77.4	75.9	79.9	82.0	84.9	75.1	79.6	82.8	78.7	76.9	77.1	80.2	80.3	71.7	78.2	79.9	75.6	87.2	85.1	77.3	82.3	81.2	79.2
117 PMH3	76.3	68.5	85.3	84.6	78.7	79.4	79.6	79.5	84.0	77.4	80.0	83.8	80.9	81.4	80.6	83.9	81.8	75.3	81.1	79.4	74.0	83.3	82.3	76.7	82.7	79.7	80.0
118 BIO-9681	73.0	67.3	80.9	84.4	76.4	74.2	78.2	84.0	85.0	77.7	79.8	83.5	83.3	73.4	80.1	70.8	82.9	76.3	78.6	81.3	75.3	85.5	87.8	82.1	82.3	82.4	79.5
119 SeedTech 2324	75.0	66.6	83.4	81.8	76.7	76.0	79.1	79.5	84.8	75.3	78.9	84.8	79.5	79.2	79.3	73.2	81.4	76.5	79.1	81.1	73.3	88.3	80.4	79.7	82.9	80.9	79.1
120 HM11	76.3	67.3	82.7	80.4	76.7	73.5	81.4	81.0	82.2	73.0	78.2	82.1	79.4	76.5	80.3	78.1	79.4	75.1	78.7	80.6	72.3	87.0	76.5	78.4	82.9	79.6	78.5
Loc. Mean	74.5	67.7	85.0	82.5	77.4	75.5	79.5	80.9	83.8	76.3	79.3	83.5	80.7	74.8	80.2	79.3	81.2	74.7	79.2	80.3	72.9	84.9	82.8	80.0	82.9	80.7	79.3
C.D. (5%)	2.83	0.24	1.58	2.82	2.48	1.00	0.00	2.23	2.48	1.58	2.35	2.05	1.20	6.39	2.90	0.72	1.76	2.31	3.55	1.57	2.98	5.32	7.21	2.89	0.48	2.67	1.53
C.V. (%)	2.36	0.22	1.34	2.13	2.30	0.82	0.00	1.71	1.49	1.05	2.39	1.53	0.92	5.31	2.24	0.56	1.35	1.92	4.27	1.22	2.54	3.90	5.41	2.25	0.36	2.92	3.26
F (Prob)	0.00	0.00	0.00	0.00	0.79	0.00	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	0.73	0.00	0.00	0.00	0.02	0.00

TABLE No. 1 (Cont..)

MOISTURE % AT HARVEST																										
S.No.	PEDIGREE	ZN 2					ZN 3					ZN 4					ZN 5									
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	BANS	CHHI	GODH	JHAB	UDAI	Mean
1	GPS -03	16.7	22.1	21.8	16.3	19.2	23.0	19.4	30.8	25.0	30.0	25.6	29.3	24.7	20.0	12.2	16.2	17.2	21.3	20.1	18.3	16.6	15.7	25.6	21.7	19.6
2	DMRH1416	17.0	23.7	22.1	20.8	20.9	23.0	19.8	27.7	24.9	26.3	24.3	25.5	19.5	20.7	8.3	15.6	15.9	17.9	17.6	18.0	18.4	15.8	26.0	23.1	20.3
3	HT 51412607	15.7	23.7	21.8	18.7	19.9	23.8	20.7	25.7	25.7	27.1	24.6	29.1	23.6	21.3	11.8	17.5	17.1	24.0	20.6	18.4	18.4	16.2	25.8	22.6	20.3
4	GPS -02	16.3	24.0	22.0	17.1	19.8	24.8	20.6	27.4	25.7	27.5	25.2	26.7	23.0	22.8	12.9	16.9	18.1	23.0	20.5	17.9	16.5	14.5	25.5	23.9	19.7
5	SYN417750	15.0	24.1	20.7	15.8	18.9	23.4	19.8	27.5	25.0	25.6	24.2	26.5	22.0	19.3	12.6	16.1	15.7	17.4	18.5	18.7	19.6	16.2	26.0	22.9	20.7
6	DMRH1415	17.3	23.6	20.3	16.1	19.3	23.8	20.4	24.2	23.9	28.6	24.2	28.2	21.6	20.0	10.4	14.7	15.3	18.0	18.3	18.3	18.9	16.1	26.0	23.1	20.5
7	GH-110204	18.0	22.6	20.4	15.2	19.0	23.1	19.8	27.8	24.7	23.3	23.7	26.8	17.6	20.6	9.4	15.6	15.0	14.2	17.0	18.1	18.0	15.5	25.3	22.3	19.8
8	KH-1408	17.7	23.5	22.3	17.0	20.1	26.1	19.5	28.7	24.9	28.0	25.4	26.5	23.4	21.9	12.0	16.9	17.5	21.8	20.0	18.2	19.8	15.5	25.8	23.4	20.5
9	NMH-1247	14.7	22.4	20.9	15.5	18.4	24.2	19.2	27.0	24.9	27.8	24.6	26.3	20.0	22.2	11.3	14.9	17.0	20.6	18.9	18.3	18.9	16.3	25.6	21.7	20.2
10	HKH422	15.3	22.2	20.6	15.9	18.5	23.9	19.1	26.4	25.0	27.7	24.4	28.2	18.2	22.7	11.5	16.8	16.6	21.3	19.3	18.1	17.1	16.3	25.6	23.2	20.1
11	VEH 14-1	13.3	22.5	22.6	17.3	18.9	25.8	19.4	23.9	24.7	29.2	24.6	26.2	22.4	22.1	11.5	15.5	16.3	17.9	18.8	17.8	17.1	15.1	25.3	22.7	19.6
12	PM 14102L	17.3	22.6	21.4	16.9	19.5	23.0	19.6	22.6	24.0	28.9	23.6	26.6	21.3	21.7	11.3	14.8	17.9	18.3	18.8	18.4	16.7	17.7	26.9	22.4	20.4
13	Gin 01	17.7	22.6	23.2	17.3	20.2	23.1	18.7	28.6	24.5	28.9	24.7	31.0	24.7	23.2	13.5	16.3	16.4	22.8	21.1	18.1	19.9	17.2	25.7	23.5	20.9
14	JH 13023	15.0	24.7	23.1	17.8	20.1	24.0	19.8	24.1	23.7	29.2	24.1	24.7	22.1	22.5	13.6	17.8	16.5	21.7	19.8	18.4	17.9	15.5	26.4	22.6	20.2
15	115-08-01	16.3	22.9	25.0	16.1	20.1	23.4	19.2	22.8	25.0	28.3	23.7	22.7	21.9	23.3	12.8	17.5	15.5	22.1	19.4	18.9	21.1	14.8	26.7	23.1	20.9
16	KF-110	12.7	22.3	20.9	16.3	18.0	22.9	21.1	23.1	23.9	25.1	23.2	20.0	21.1	18.9	8.9	15.6	15.4	20.4	17.2	18.3	17.8	16.6	25.3	22.8	20.2
17	PM 14106L	14.7	22.3	22.2	16.3	18.9	23.8	19.5	22.8	24.0	28.8	23.8	24.8	20.4	21.4	11.9	15.6	16.5	15.2	18.0	18.1	19.0	15.6	25.4	22.9	20.2
18	PM 14105L	15.0	24.8	25.5	17.1	20.6	23.7	18.7	27.4	26.1	29.2	25.0	25.7	25.5	19.2	10.8	14.9	14.7	23.0	19.1	17.7	17.7	16.7	24.7	23.2	20.0
19	Bio-069	16.0	23.4	23.0	18.4	20.2	25.0	20.1	24.9	24.7	28.4	24.6	29.1	21.7	19.8	14.1	15.7	16.8	22.9	20.0	18.3	19.1	15.6	25.3	22.9	20.2
20	PMSY -3	16.7	22.3	20.9	15.8	18.9	22.8	19.8	21.3	24.8	24.0	22.5	24.2	20.7	21.5	10.3	16.6	15.9	16.9	18.0	18.0	18.0	14.4	25.0	22.8	19.6
21	NT 8441	15.3	23.3	23.5	17.2	19.8	24.1	19.0	26.8	25.9	29.7	25.1	27.9	22.7	20.4	15.4	19.0	17.5	25.0	21.1	19.0	18.5	16.5	25.4	23.9	20.7
22	Proline-2404	17.3	24.0	23.1	18.4	20.7	25.8	19.2	29.7	25.9	30.8	26.3	25.9	26.0	22.6	14.6	17.5	17.5	21.1	20.7	18.4	20.5	16.0	24.9	22.6	20.5
23	siri -4555	16.7	22.9	23.5	16.8	20.0	26.0	18.7	27.9	24.7	29.8	25.4	26.2	23.9	22.1	13.8	16.0	17.9	20.5	20.1	18.5	19.1	16.2	25.8	22.7	20.5
24	JKMH 4242	16.7	23.6	21.5	15.7	19.3	24.2	18.9	25.0	24.4	26.5	23.8	27.3	23.3	19.7	10.8	15.1	16.0	22.1	19.2	19.3	18.5	14.7	24.8	22.7	20.0
25	GOLD 1166	14.7	21.5	21.9	16.1	18.6	26.1	19.2	27.5	24.8	31.1	25.7	27.0	22.3	19.8	13.5	15.4	16.6	18.4	19.0	18.6	19.6	16.2	24.6	23.1	20.4
26	VNR 4325	13.7	22.9	23.3	16.1	19.0	23.9	19.4	27.3	25.1	28.3	24.8	27.0	22.1	19.3	12.8	16.7	15.8	21.0	19.2	18.7	18.4	16.9	24.6	20.4	19.8
27	CMH12-671	15.7	25.3	21.6	15.7	19.5	25.2	18.7	25.0	25.5	28.9	24.7	26.4	20.7	19.7	13.9	17.2	15.9	22.3	19.4	19.4	17.7	16.7	24.6	22.9	20.3
28	HT 51412616	17.3	23.3	21.5	15.9	19.5	23.1	19.8	27.6	24.8	28.9	24.8	25.7	23.3	22.4	14.0	18.2	16.8	23.0	20.5	18.5	19.3	15.0	24.3	23.0	20.0
29	CMH10-555	14.0	22.4	22.5	16.2	18.8	25.2	19.1	26.9	25.9	26.3	24.6	26.0	25.0	21.9	12.3	16.5	17.5	19.8	19.8	18.1	19.0	15.4	24.6	22.6	19.9
30	CMH12-663	12.3	22.0	23.7	16.6	18.7	26.2	19.2	27.4	23.9	28.5	25.0	28.6	21.9	23.8	13.9	17.6	18.3	21.7	20.8	18.0	19.5	16.0	25.0	22.4	20.2
31	DKC9125	15.0	23.7	23.3	16.3	19.6	25.0	19.5	28.4	24.2	30.4	25.5	24.9	24.9	20.4	12.0	15.1	16.7	21.1	19.3	17.8	18.9	14.9	25.0	22.4	19.8
32	KMH-3981	16.0	24.3	21.9	16.2	19.6	26.1	20.4	25.1	24.7	34.0	26.0	27.2	24.5	21.7	9.1	16.4	17.0	18.5	19.2	18.2	18.2	16.2	25.9	23.7	20.4
33	DMH-192	18.0	23.6	22.9	17.6	20.5	25.2	20.0	27.2	23.7	28.9	25.0	23.8	22.0	21.3	14.9	18.0	16.6	22.8	19.9	19.1	20.8	16.1	24.7	22.5	20.6
34	DMRH1413	17.0	23.1	20.1	21.2	20.4	-	19.0	23.4	25.8	29.0	24.3	23.6	24.8	22.1	10.9	16.3	15.1	20.2	19.0	18.0	19.9	15.2	25.0	22.3	20.1

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TABLE No. 1 (Cont..)

MOISTURE % AT HARVEST																										
S.No.	PEDIGREE	ZN 2					ZN 3					ZN 4					ZN 5									
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	BANS	CHHI	GODH	JHAB	UDAI	Mean
35	K-25 Gold	15.7	23.5	18.5	16.0	18.4	24.0	19.8	19.2	23.7	27.0	22.7	25.1	22.8	20.8	11.9	14.2	15.4	20.0	18.6	17.7	18.2	15.8	24.9	23.3	20.0
36	IN 8569	14.3	22.3	20.8	15.9	18.3	24.1	19.4	26.8	24.8	28.6	24.7	25.6	23.5	23.0	11.2	17.2	16.0	20.5	19.6	18.6	17.0	16.5	25.0	23.1	20.0
37	GK-3118	14.3	24.3	22.2	16.9	19.4	24.2	19.2	28.2	24.9	29.8	25.2	23.8	23.1	23.1	12.3	16.8	17.3	18.8	19.3	17.8	18.4	16.3	25.5	22.5	20.1
38	DMRH1409	15.0	22.3	21.7	16.2	18.8	23.8	19.5	26.6	24.7	26.4	24.2	31.7	22.7	20.5	12.1	17.5	16.7	22.0	20.4	18.7	19.3	14.4	25.7	22.9	20.2
39	VNR 31862	16.0	23.5	24.0	16.4	20.0	24.9	19.3	23.5	26.5	24.4	23.7	25.5	21.5	19.1	14.2	16.8	16.9	20.1	19.1	18.8	18.0	17.2	25.9	23.6	20.7
40	MAH-957	14.0	22.5	20.6	16.7	18.4	23.0	18.5	23.6	24.8	29.8	23.9	24.8	22.0	19.9	11.1	15.8	15.3	20.4	18.5	19.0	19.3	16.2	25.5	23.1	20.6
41	DMH-7721	15.7	26.1	21.1	15.7	19.6	25.0	20.2	25.0	24.0	26.2	24.1	29.3	22.1	18.9	7.2	14.5	15.8	19.9	18.2	18.8	18.0	15.6	24.4	22.3	19.8
42	NT 8711	18.7	22.7	23.4	17.7	20.6	23.8	19.5	23.0	24.0	29.7	24.0	29.0	24.2	20.7	16.7	15.1	17.7	20.8	20.6	17.5	17.2	14.5	24.0	23.1	19.3
43	JH 13249	17.7	22.5	23.8	16.0	20.0	25.0	19.2	27.9	23.9	27.9	24.8	26.5	23.8	23.6	14.7	16.9	15.5	22.2	20.4	18.3	20.8	15.5	23.7	22.8	20.2
44	SAMH-225	18.0	22.5	23.5	16.7	20.2	25.0	20.5	23.9	24.1	29.5	24.6	27.7	25.0	20.2	13.5	17.3	16.2	22.8	20.4	17.9	20.0	16.2	23.7	23.4	20.2
45	JH 13041	15.3	23.4	23.9	16.7	19.8	23.6	19.7	21.4	23.9	30.0	23.7	24.4	22.1	20.9	10.7	15.3	14.9	22.2	18.6	19.0	16.1	16.9	23.5	22.4	19.6
46	JH 12063	15.7	22.0	23.6	17.2	19.6	24.9	19.0	27.1	25.3	29.1	25.1	29.8	23.3	21.8	9.1	16.1	16.5	21.0	19.6	17.7	19.6	16.1	24.4	23.3	20.2
47	JH 13094	14.0	22.7	20.8	15.7	18.3	23.8	19.8	25.9	23.9	28.0	24.3	26.8	20.3	21.3	10.0	17.6	14.5	22.3	19.0	18.8	16.6	15.6	24.3	23.0	19.7
48	RMH-726	14.0	24.1	23.0	16.2	19.3	25.0	20.4	30.3	25.8	28.7	26.0	28.2	22.3	19.9	12.5	14.8	17.3	21.5	19.5	18.6	15.9	15.2	24.5	23.7	19.6
49	JH 13044	17.3	23.7	22.3	16.5	20.0	24.1	20.1	27.3	24.8	29.6	25.2	29.8	22.4	21.6	12.7	15.2	16.6	18.3	19.5	18.2	18.5	15.8	24.8	22.3	19.9
50	PMSW 4	14.7	22.6	21.7	15.9	18.7	22.9	18.5	26.6	23.6	25.9	23.5	26.0	23.0	20.4	15.0	16.4	16.2	18.5	19.3	17.8	17.0	14.6	24.9	23.1	19.5
51	PM 14104L	15.7	24.3	21.4	16.1	19.4	23.1	19.3	24.0	23.7	30.6	24.1	29.0	22.3	22.5	9.5	14.1	16.2	22.3	19.4	18.2	18.0	14.4	24.7	22.9	19.6
52	CP.555	16.7	23.3	21.5	15.6	19.2	24.0	19.5	24.1	23.9	27.7	23.8	24.6	19.5	20.7	8.5	15.6	15.5	14.9	17.0	17.7	19.0	15.8	24.5	23.2	20.0
53	JH 13183	13.7	23.8	23.3	15.8	19.1	24.9	19.2	24.6	23.8	30.4	24.6	26.1	22.1	21.9	15.2	16.7	17.3	21.3	20.1	18.4	19.2	16.0	25.0	23.0	20.3
54	DMRH1411	13.7	23.0	21.8	15.9	18.6	23.9	19.8	26.6	24.8	27.6	24.5	22.5	22.2	20.2	12.2	15.5	16.0	18.0	18.1	18.3	17.6	15.9	25.0	22.7	19.9
55	JH 12150	14.3	23.0	24.8	16.6	19.7	24.2	19.0	27.5	25.4	29.5	25.1	30.6	23.0	22.9	13.9	16.5	17.2	23.9	21.1	17.9	17.7	16.1	25.6	22.5	20.0
56	Gin 02	14.7	23.4	22.5	16.1	19.2	23.2	19.1	24.5	24.9	29.7	24.2	28.7	22.5	20.1	12.3	16.3	17.0	23.1	20.0	18.1	18.5	14.7	25.7	23.3	20.1
57	BH 412140	16.0	22.5	25.8	16.4	20.2	24.9	19.5	27.2	24.7	30.5	25.4	24.9	23.8	22.2	9.9	17.6	18.3	22.9	19.9	18.4	15.9	16.6	25.8	22.2	19.8
58	NT 6325	17.3	22.6	24.5	16.5	20.2	24.3	20.8	24.1	25.0	28.3	24.5	27.0	21.8	22.9	10.3	16.6	15.6	21.3	19.3	18.6	19.1	15.8	25.5	22.5	20.3
59	DMRH1308	16.0	23.6	22.1	15.7	19.3	24.2	18.5	22.5	25.4	27.4	23.6	27.2	20.9	21.5	11.9	17.3	17.0	20.4	19.4	18.1	19.4	14.8	25.7	22.1	20.0
60	ADV 1190384	14.7	23.0	23.7	16.6	19.5	25.0	20.4	29.2	25.1	30.8	26.1	22.2	22.7	21.8	12.5	17.8	16.1	21.8	19.3	17.9	20.3	16.9	25.6	23.1	20.8
61	HT 51412373	17.0	22.8	22.9	18.3	20.2	24.0	20.2	29.2	25.8	28.6	25.5	27.5	24.2	23.5	13.9	16.8	16.1	21.4	20.5	18.6	18.6	15.7	25.9	21.9	20.1
62	SAFAL X-2	17.3	23.8	24.8	16.2	20.5	22.5	19.5	29.9	25.8	28.3	25.2	25.1	22.8	19.3	15.6	18.4	16.4	19.7	19.6	18.5	18.8	15.4	25.2	22.5	20.1
63	JH 13197	15.0	23.0	22.4	16.6	19.3	22.8	20.1	25.0	25.6	28.6	24.4	27.1	21.4	21.3	12.7	18.7	17.2	21.4	20.0	17.9	18.7	16.5	25.8	23.3	20.4
64	super 6768	15.7	23.3	21.5	15.9	19.1	23.7	19.8	28.4	23.7	29.4	25.0	27.6	21.6	21.9	10.5	16.4	15.9	19.0	19.0	18.7	19.8	16.7	25.9	22.8	20.8
65	JH 13278	14.0	21.9	21.1	17.0	18.5	26.0	20.4	28.2	23.9	27.2	25.1	26.2	22.0	20.8	11.4	14.7	17.6	20.5	19.0	17.9	17.4	16.6	25.6	23.4	20.2
66	IN 8570	14.0	22.8	22.5	16.4	18.9	23.9	20.0	26.5	24.9	25.7	24.2	27.5	25.6	24.4	15.1	17.6	15.8	22.8	21.2	18.8	16.8	15.2	25.9	23.2	20.0
67	GPMH-1111	16.0	23.5	20.0	15.9	18.8	24.0	19.0	23.4	23.9	26.0	23.2	27.8	21.2	21.9	10.7	14.3	16.5	18.1	18.6	18.1	15.7	15.9	25.7	22.4	19.6
68	JH 13248	14.7	22.4	22.2	16.9	19.0	23.2	18.7	26.6	25.0	28.1	24.3	24.8	22.1	21.0	8.2	17.3	15.5	22.9	18.8	18.2	19.4	15.4	25.4	22.9	20.3

TABLE No. 1 (Cont..)

MOISTURE % AT HARVEST																										
S.No.	PEDIGREE	ZN 2					ZN 3					ZN 4					ZN 5									
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	BANS	CHHI	GODH	JHAB	UDAI	Mean
69	SAMH-378	17.0	24.9	21.8	16.1	19.9	24.1	19.1	24.4	25.4	26.7	23.9	27.0	23.9	21.2	8.5	15.4	16.5	22.7	19.3	18.3	17.7	15.9	26.1	22.3	20.1
70	KH-2192	17.3	24.5	24.6	16.3	20.7	25.8	21.1	27.6	24.0	30.6	25.8	25.7	25.0	22.1	9.1	15.2	16.3	21.1	19.2	18.8	19.8	15.9	25.3	23.4	20.6
71	ADV 0990293	15.0	22.3	25.7	16.7	19.9	24.8	20.4	19.3	26.0	28.5	23.8	24.0	24.6	22.0	14.6	15.9	16.7	22.6	20.0	18.4	20.3	16.4	25.7	22.8	20.7
72	JH 13252	17.3	22.6	23.5	17.1	20.1	25.2	19.4	30.6	24.6	28.5	25.6	30.3	25.8	24.1	12.2	15.0	12.4	20.3	20.0	18.5	17.6	16.2	25.7	22.4	20.1
73	NMH 1605	15.0	23.2	21.8	16.1	19.0	25.1	19.6	28.4	24.7	26.3	24.8	22.7	18.2	20.7	9.9	16.0	14.7	20.7	17.6	18.6	20.0	16.1	25.8	22.3	20.6
74	GPMH-1101	15.7	24.1	20.1	16.0	19.0	23.1	19.1	26.8	25.6	26.5	24.2	23.6	19.9	20.8	8.1	15.2	16.7	20.4	17.8	18.3	17.4	14.9	25.8	23.4	20.0
75	PM 14101L	16.0	22.4	25.2	16.5	20.0	26.0	19.5	27.8	23.8	29.7	25.4	25.5	23.5	21.5	14.2	16.4	17.0	23.5	20.2	18.6	17.9	16.7	26.0	23.1	20.5
76	CMH12-667	16.0	22.2	21.7	15.9	18.9	24.2	20.4	25.8	24.0	28.3	24.5	22.3	21.5	21.7	11.8	15.5	18.1	19.0	18.5	18.8	19.3	16.3	25.9	22.2	20.5
77	BH 412141	16.0	22.8	20.4	15.8	18.7	25.0	19.8	28.0	24.8	29.5	25.4	24.3	22.4	22.8	11.2	17.0	15.7	20.3	19.1	18.6	18.8	16.3	25.3	23.3	20.5
78	Srikar 3033	14.7	22.5	20.1	16.0	18.3	27.2	19.4	27.5	23.7	28.6	25.3	25.7	21.9	23.4	9.7	15.9	17.5	21.2	19.3	18.1	19.3	17.2	25.8	22.4	20.6
79	JH 13282	17.3	23.8	24.2	15.9	20.3	26.2	20.7	23.2	24.9	27.7	24.5	26.7	23.7	23.7	11.7	17.0	16.5	19.8	19.9	18.6	18.0	15.6	25.8	23.1	20.2
80	IN 8903	15.0	24.5	13.7	18.2	17.8	25.8	19.8	29.0	24.6	28.1	25.4	25.2	26.3	24.7	14.0	15.4	15.9	22.8	20.6	18.5	18.2	16.5	25.9	22.4	20.3
81	GYH-0652	17.3	24.3	17.8	15.9	18.8	22.0	20.0	23.3	24.7	23.4	22.7	25.2	17.5	19.7	10.7	15.3	15.7	15.1	17.0	18.2	16.9	16.0	25.4	22.6	19.8
82	NMH 1008	15.0	23.5	21.2	16.3	19.0	23.9	20.7	29.2	24.0	26.2	24.8	24.7	22.3	20.5	11.1	14.5	15.4	19.3	18.2	18.6	17.3	15.9	25.7	23.3	20.2
83	GK-3124	15.7	23.6	22.2	16.2	19.4	23.8	19.2	28.5	24.9	27.6	24.8	24.8	21.8	20.9	12.8	16.0	17.3	19.6	19.0	17.9	17.6	15.3	25.6	23.5	20.0
84	ADV 0990296	16.0	21.6	24.7	17.5	19.9	23.8	18.7	29.7	23.8	29.4	25.1	28.7	24.1	22.9	14.4	17.0	17.4	22.6	21.0	18.4	18.7	14.9	25.6	22.9	20.1
85	CMH11-618	16.0	23.5	21.7	17.0	19.5	25.4	19.2	29.4	24.8	26.7	25.1	26.2	23.4	24.1	12.0	17.5	16.5	20.6	20.0	18.7	18.4	16.0	25.8	23.0	20.4
86	REH2013-5	16.0	22.6	23.1	16.9	19.6	23.9	18.9	21.3	24.3	28.3	23.3	26.6	23.0	22.7	9.2	15.4	18.1	22.5	19.6	18.3	17.8	15.7	25.8	22.0	19.9
87	DAS-MH-106	14.7	22.0	22.3	16.0	18.7	23.9	19.1	26.5	23.9	26.9	24.0	27.5	22.6	19.9	12.0	14.7	16.3	16.7	18.5	18.0	19.1	15.0	25.4	23.1	20.1
88	JH 13244	15.7	24.3	24.1	18.2	20.6	24.1	19.8	25.3	24.6	27.5	24.2	26.8	24.0	22.8	10.7	17.4	17.0	20.9	19.9	18.5	17.7	16.3	25.8	23.0	20.3
89	AMH-3436	16.0	22.8	24.2	16.2	19.8	25.2	19.0	24.6	24.9	32.6	25.3	24.8	23.9	19.6	13.3	19.0	18.6	25.2	20.6	19.0	18.8	16.7	25.5	23.1	20.6
90	IN 8603	16.0	23.3	22.0	16.7	19.5	22.9	20.4	28.1	24.6	27.9	24.8	31.0	24.7	18.8	13.7	16.4	15.5	20.9	20.1	18.1	16.8	16.3	25.6	23.0	20.0
91	JH 13230	16.0	23.8	23.1	16.4	19.8	24.9	19.2	28.7	24.6	26.8	24.8	28.3	26.0	22.9	12.1	16.9	16.1	24.0	20.9	18.3	17.6	14.9	26.0	22.0	19.8
92	DAS-MH-107	14.7	22.4	24.7	17.1	19.7	25.8	19.5	31.9	23.4	27.4	25.6	26.6	27.1	23.0	13.0	17.2	18.1	22.8	21.1	18.4	18.8	15.8	25.6	21.7	20.1
93	IAHM 2013-12	14.7	22.9	23.0	17.1	19.4	25.2	19.1	20.1	23.7	25.3	22.7	29.7	23.7	19.4	8.6	16.2	15.6	19.3	18.9	17.3	17.3	15.8	25.8	22.7	19.8
94	JH 12010	17.0	23.9	21.8	18.2	20.2	24.0	19.5	28.8	23.9	28.3	24.9	26.4	20.2	21.4	11.3	15.8	17.1	22.0	19.1	18.1	19.0	16.7	25.4	23.3	20.5
95	BH 412131	17.3	24.3	21.5	18.6	20.4	24.3	19.8	27.3	24.9	27.4	24.7	25.4	22.1	20.3	10.9	16.8	15.5	21.9	19.0	18.0	18.8	16.5	25.7	23.4	20.5
96	Super 1177	15.0	22.4	22.0	16.1	18.9	26.3	20.4	26.4	24.7	28.2	25.2	27.3	21.9	19.8	7.9	16.5	17.3	19.4	18.6	18.9	19.2	14.3	25.7	23.1	20.2
97	Super 777	17.3	23.1	22.7	16.6	19.9	24.7	19.8	24.9	25.7	28.7	24.8	21.6	21.9	21.4	13.0	16.2	16.3	20.8	18.7	18.4	18.4	15.7	25.8	22.9	20.2
98	GH-110145	15.0	22.8	19.5	16.0	18.3	23.7	19.2	21.2	22.7	25.7	22.5	25.8	20.8	20.5	10.4	15.8	15.1	16.6	17.8	17.6	18.2	15.7	25.6	22.8	20.0
99	JH 13045	14.7	22.3	22.8	16.8	19.1	23.1	19.5	25.3	24.8	27.0	23.9	28.7	23.0	22.2	9.4	15.6	15.4	20.1	19.2	18.1	18.5	15.5	25.8	22.8	20.1
100	JH 13037	14.7	23.7	22.4	15.9	19.2	23.8	19.9	28.2	23.8	29.0	24.9	25.4	24.1	21.4	13.5	15.7	15.3	21.9	19.6	18.2	21.5	15.9	25.4	23.2	20.8
101	MAH-974	17.0	22.7	21.2	19.0	20.0	23.8	20.8	24.6	24.9	29.2	24.6	23.9	19.9	21.9	11.3	16.2	15.9	17.4	18.1	18.3	20.5	14.8	25.6	23.0	20.4
102	BH 412096	17.3	21.7	21.4	16.6	19.3	24.2	20.1	23.9	23.9	28.4	24.1	23.1	21.1	22.9	8.4	16.1	16.2	22.7	18.6	18.3	18.6	16.2	25.6	23.2	20.4

TABLE No. 1 (Cont..)

MOISTURE % AT HARVEST																										
S.No.	PEDIGREE	MOISTURE % AT HARVEST				ZN 2					ZN 3					ZN 4					ZN 5					
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	BANS	CHHI	GODH	JHAB	UDAI	Mean
103	PRMH-189	15.0	22.7	21.0	15.9	18.6	23.2	19.5	22.4	22.7	24.4	22.4	26.5	22.0	20.2	12.5	15.1	15.2	21.9	19.0	18.8	19.8	16.8	25.7	23.2	20.9
104	IN 8902	17.3	23.1	24.1	20.3	21.2	24.9	19.1	28.3	24.8	30.0	25.4	31.8	26.0	22.2	12.2	16.5	15.8	21.2	20.8	18.3	16.8	16.0	25.5	22.8	19.9
105	IN 8602	15.0	23.9	24.9	15.7	19.9	22.9	20.2	24.4	24.6	29.5	24.3	26.2	26.3	22.7	13.5	17.4	17.7	20.3	20.6	17.8	16.2	17.0	25.8	22.3	19.8
106	REH2013-6	16.0	21.8	22.7	15.9	19.1	24.3	19.3	28.7	24.5	27.7	24.9	24.9	27.7	20.2	12.0	16.6	16.9	23.1	20.2	18.7	18.8	15.8	26.1	22.0	20.3
107	JH 13270	15.7	22.4	23.1	16.9	19.5	24.0	19.1	29.5	25.9	29.4	25.6	23.2	22.0	23.7	11.5	15.9	17.2	20.5	19.1	17.2	18.3	18.1	25.5	23.4	20.5
108	BH 412095	14.0	23.1	21.6	16.7	18.8	26.0	19.8	24.1	23.8	28.5	24.4	23.8	21.5	20.7	11.3	15.6	16.3	19.7	18.4	19.0	20.5	16.3	25.7	22.4	20.8
109	HKH423	14.7	24.4	19.1	15.8	18.5	23.0	20.4	26.0	25.6	27.1	24.4	27.8	19.1	18.2	11.2	15.6	17.0	18.6	18.2	17.7	16.8	15.0	25.6	23.1	19.6
110	Sonam -27	16.7	22.9	22.6	15.9	19.5	24.2	19.0	27.9	23.8	30.7	25.1	26.2	22.8	23.7	9.6	15.8	14.8	22.9	19.4	18.7	17.1	15.4	25.9	22.5	19.9
111	REH2013-2	15.7	23.8	23.5	16.3	19.8	23.1	19.3	25.1	23.8	27.7	23.8	26.7	22.1	24.8	13.5	15.1	16.5	19.3	19.7	18.2	16.1	15.9	25.2	22.9	19.7
112	JKMH 4023	17.0	24.0	24.6	15.6	20.3	28.1	20.1	25.6	25.9	32.0	26.3	26.4	24.4	21.9	14.0	15.0	15.8	20.1	19.6	18.1	19.2	15.6	25.7	22.2	20.2
113	AH 7005	14.7	22.7	21.5	15.9	18.7	25.0	19.5	27.6	24.9	28.3	25.0	27.5	23.2	18.9	13.6	15.6	16.6	22.4	19.7	18.4	19.3	16.1	25.6	22.9	20.5
114	CSM-1	16.3	22.8	22.4	16.2	19.4	23.2	18.5	21.8	24.7	27.2	23.1	25.1	22.2	22.2	11.4	15.4	17.6	21.2	19.3	18.5	19.3	16.3	25.6	22.9	20.5
115	CSM-2	16.0	23.2	21.1	15.3	18.9	23.3	20.2	26.3	23.7	28.4	24.4	27.7	22.1	20.5	9.6	15.5	18.3	18.3	18.8	18.4	18.0	15.2	25.6	22.4	19.9
CHECKS																										
116	PMH1	13.7	23.5	23.8	16.5	19.4	23.9	19.2	27.4	25.3	29.0	25.0	25.2	21.8	21.9	12.8	15.9	16.8	19.3	19.1	17.9	17.5	16.7	25.6	22.7	20.1
117	PMH3	14.7	22.9	24.6	17.0	19.8	24.5	20.4	25.9	24.4	27.2	24.5	27.5	22.3	22.0	12.7	17.9	17.9	23.3	20.5	18.1	18.4	16.0	25.6	23.2	20.3
118	BIO-9681	17.0	23.0	21.6	15.9	19.4	24.2	18.5	25.2	24.5	22.6	23.0	26.2	20.0	19.7	7.6	14.9	16.0	19.0	17.6	18.7	20.7	14.7	25.7	23.8	20.7
119	SeedTech 2324	16.0	22.7	22.8	16.7	19.5	26.0	20.2	23.0	23.9	29.9	24.6	26.0	24.1	23.2	13.1	16.6	17.8	23.5	20.6	18.1	17.2	15.5	25.9	21.6	19.7
120	HM11	17.0	22.8	20.7	16.4	19.2	23.8	20.1	24.4	24.0	28.3	24.1	27.4	21.3	21.9	11.6	15.8	14.9	20.2	19.0	18.3	18.8	14.8	25.9	22.7	20.1
Loc. Mean		15.7	23.2	22.3	16.6	19.4	24.1	19.6	26.0	24.6	28.2	24.5	26.3	22.6	21.5	11.8	16.2	16.4	20.7	19.4	18.3	18.4	15.8	25.4	22.8	20.1
C.D. (5%)		2.54	0.24	1.60	1.02	1.68	0.81	0.00	3.41	1.26	0.63	1.81	3.05	1.11	2.87	2.46	1.48	0.64	2.14	1.61	0.72	3.11	1.14	0.74	0.47	1.09
C.V. (%)		10.03	0.64	5.17	3.84	6.22	2.09	0.00	8.14	2.58	1.12	5.94	7.19	3.04	8.33	12.93	5.66	2.44	6.43	7.92	2.45	10.47	4.46	1.80	1.28	4.01
F (Prob)		0.00	0.00	0.00	0.00	0.05	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	0.00	0.00	0.19

Table No. 1 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)																										
		ZN 2										ZN 3					ZN 4					ZN 5		OV'L				
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean	Mean
1	GPS -03	76.4	60.0	69.6	59.4	66.4	66.7	60.4	66.7	62.5	59.4	63.1	71.5	66.0	70.6	56.7	53.3	58.3	53.5	61.4	52.8	54.2	50.6	68.1	56.5	61.1	57.2	61.5
2	DMRH1416	76.4	58.9	69.6	62.2	66.8	57.6	61.8	66.1	62.5	56.3	60.9	75.7	66.0	66.1	62.2	53.3	56.5	57.6	62.5	60.0	57.6	57.2	72.2	58.3	61.8	61.2	62.6
3	HT 51412607	76.4	57.8	73.3	60.0	66.9	62.5	63.9	66.7	64.3	66.7	64.8	71.5	66.7	72.2	62.2	51.1	57.7	59.0	62.9	62.8	63.9	53.3	81.9	63.9	59.7	64.3	64.4
4	GPS -02	75.7	60.6	72.3	63.3	68.0	65.3	62.5	66.1	58.9	63.5	63.3	70.8	66.7	70.6	54.4	53.3	58.9	58.3	61.9	53.9	60.4	49.4	70.8	63.0	61.1	59.8	62.7
5	SYN417750	77.1	57.8	73.3	52.8	65.2	66.7	62.5	65.0	63.4	62.5	64.0	81.9	66.0	72.2	52.2	52.8	58.9	50.7	62.1	56.1	56.9	60.6	72.2	56.5	61.1	60.6	62.7
6	DMRH1415	77.8	59.4	67.3	53.9	64.6	66.7	62.5	64.4	49.1	62.5	61.0	72.9	64.6	71.7	57.2	53.3	57.7	50.7	61.2	61.1	55.6	61.1	69.4	64.8	61.1	62.2	62.0
7	GH-110204	78.5	61.1	70.1	60.6	67.5	67.4	64.6	67.2	51.8	62.5	62.7	79.9	64.6	71.7	36.1	53.3	64.3	50.0	60.0	61.7	64.6	47.8	70.8	61.1	61.1	61.2	62.3
8	KH-1408	74.3	58.3	72.3	60.0	66.2	62.5	60.4	66.1	60.7	58.3	61.6	66.7	66.0	68.9	55.6	48.9	61.9	56.9	60.7	55.6	59.0	51.1	80.6	65.7	61.8	62.3	62.3
9	NMH-1247	72.9	61.1	69.6	65.6	67.3	73.6	62.5	67.2	53.6	63.5	64.1	74.3	66.7	69.4	67.8	53.3	61.3	51.4	63.5	60.0	56.9	52.8	66.7	63.0	59.7	59.8	63.3
10	HKH422	72.2	59.4	64.1	51.7	61.9	62.5	61.8	62.2	51.8	72.9	62.2	73.6	65.3	68.9	56.7	53.3	58.3	52.8	61.3	61.1	60.4	48.3	61.1	62.0	61.1	59.0	61.0
11	VEH 14-1	73.6	60.0	59.5	57.8	62.7	65.3	61.8	66.1	57.1	70.8	64.2	72.2	65.3	66.7	48.9	51.7	66.1	47.9	59.8	66.1	63.9	41.7	83.3	66.7	61.1	63.8	62.4
12	PM 14102L	75.0	58.9	73.7	56.1	65.9	60.4	61.1	66.1	56.3	67.7	62.3	77.8	66.7	72.2	52.8	51.1	62.5	54.9	62.6	61.7	60.4	47.2	81.9	64.8	60.4	62.7	63.2
13	Gin 01	72.9	57.8	69.6	64.4	66.2	66.0	64.6	67.8	60.7	70.8	66.0	76.4	65.3	70.6	62.8	53.3	59.5	53.5	63.0	51.1	55.6	47.8	80.6	61.1	61.1	59.5	63.3
14	JH 13023	77.8	58.9	70.5	61.1	67.1	62.5	62.5	66.7	63.4	62.5	63.5	62.5	66.0	73.3	51.1	52.8	60.7	56.3	60.4	55.0	55.6	42.2	76.4	63.0	61.1	58.9	61.9
15	115-08-01	77.1	60.0	69.6	62.8	67.4	59.7	62.5	62.8	59.8	70.8	63.1	75.7	66.0	70.0	52.2	46.1	64.3	58.3	61.8	52.2	59.7	60.0	79.2	60.2	61.1	62.1	63.2
16	KF-110	77.8	58.9	65.9	60.0	65.7	62.5	61.8	63.3	58.0	58.3	60.8	63.2	64.6	69.4	51.7	52.2	57.7	52.1	58.7	56.7	66.0	58.3	72.2	61.1	61.1	62.6	61.5
17	PM 14106L	71.5	59.4	69.6	61.1	65.4	60.4	58.3	63.9	57.1	69.8	61.9	78.5	64.6	71.7	50.0	51.7	63.7	52.8	61.8	66.7	57.6	53.3	72.2	62.0	61.8	62.3	62.6
18	PM 14105L	72.9	60.0	71.9	61.7	66.6	66.7	63.9	67.2	65.2	66.7	65.9	76.4	65.3	71.7	51.7	53.3	58.9	62.5	62.8	54.4	54.9	55.0	76.4	63.0	63.2	61.1	63.8
19	Bio-069	75.7	60.0	72.8	63.3	68.0	62.5	61.8	68.3	63.4	61.5	63.5	67.4	66.7	72.2	58.3	53.3	64.3	59.0	63.0	57.8	64.6	54.4	57.4	63.2	62.1	63.8	
20	PMSY -3	74.3	59.4	68.2	59.4	65.4	60.4	61.8	64.4	56.3	57.3	60.0	74.3	64.6	68.9	53.3	53.3	65.5	50.7	61.5	55.0	59.0	48.9	56.9	53.7	61.1	55.8	60.3
21	NT 8441	73.6	61.1	75.1	64.4	68.6	62.5	64.6	67.8	58.9	69.8	64.7	66.0	66.0	68.3	58.9	53.3	56.0	57.6	60.9	52.8	61.1	54.4	76.4	58.3	61.1	60.7	63.1
22	Proline-2404	75.0	58.9	74.2	63.9	68.0	66.7	62.5	66.7	67.9	59.4	64.6	75.7	64.6	70.6	52.2	50.6	61.3	58.3	61.9	63.9	61.8	53.3	73.6	62.0	61.8	62.7	63.9
23	siri -4555	75.7	57.8	72.3	62.8	67.1	62.5	63.2	66.1	59.8	59.4	62.2	77.8	65.3	72.8	55.0	53.3	59.5	56.3	62.8	53.3	54.9	62.8	76.4	60.2	60.4	61.3	63.1
24	JKMH 4242	73.6	61.1	70.1	63.3	67.0	62.5	63.9	65.6	64.3	61.5	63.5	74.3	66.7	70.0	51.7	53.3	61.3	56.9	62.0	58.3	62.5	62.8	80.6	58.3	63.2	64.3	63.9
25	GOLD 1166	77.1	56.1	74.6	63.9	67.9	60.4	62.5	66.1	61.6	66.7	63.5	78.5	66.0	72.2	62.2	53.3	64.3	54.2	64.4	53.3	60.4	58.3	83.3	63.0	61.1	63.2	64.5
26	VNR 4325	79.2	57.2	71.4	61.7	67.4	57.6	60.4	64.4	60.7	61.5	60.9	66.0	66.0	70.6	48.3	52.2	65.5	54.2	60.4	69.4	56.9	42.2	80.6	61.1	61.1	61.9	62.2
27	CMH12-671	72.2	60.6	66.4	63.9	65.8	61.1	60.4	65.6	56.3	66.7	62.0	59.0	66.7	71.7	44.4	53.3	58.9	54.9	58.4	63.3	56.3	51.7	77.8	67.6	59.7	62.7	61.7
28	HT 51412616	75.0	60.6	69.1	63.3	67.0	64.6	63.2	66.1	60.7	69.8	64.9	76.4	66.0	73.3	63.9	52.8	64.3	55.6	64.6	60.6	59.0	51.7	76.4	60.2	61.8	61.6	64.3
29	CMH10-555	74.3	60.0	71.9	62.8	67.2	69.4	59.7	66.7	61.6	64.6	64.4	84.0	66.0	71.7	57.8	53.3	60.1	57.6	64.4	62.2	59.7	54.4	83.3	63.9	61.8	64.2	64.9
30	CMH12-663	78.5	61.1	69.6	56.7	66.5	63.2	61.8	66.7	57.1	74.0	64.6	81.9	64.6	71.1	61.1	53.3	65.5	55.6	64.7	55.0	56.3	58.3	76.4	63.9	61.1	61.8	64.2
31	DKC9125	75.0	59.4	74.2	61.1	67.4	60.4	62.5	64.4	60.7	65.6	62.7	81.3	66.0	70.0	60.0	53.3	60.1	57.6	64.0	60.0	44.4	55.0	80.6	63.9	61.1	60.8	63.5
32	KMH-3981	74.3	57.8	68.7	61.1	65.5	65.3	62.5	66.7	58.0	56.3	61.7	71.5	66.7	71.7	52.8	52.8	61.3	51.4	61.2	45.6	58.3	55.6	75.0	64.8	59.7	59.8	61.7
33	DMH-192	75.7	60.0	72.8	61.7	67.5	61.8	62.5	66.7	55.4	60.4	61.3	84.7	65.3	72.8	60.0	53.3	60.7	48.6	63.6	58.3	64.6	50.6	80.6	62.0	63.9	63.3	63.7
34	DMRH1413	75.0	58.9	49.5	55.6	59.7	-	60.4	59.4	59.8	56.3	59.0	52.1	65.3	57.2	45.6	52.2	60.7	45.8	54.1	63.9	54.9	50.0	69.4	61.1	61.8	60.2	57.8
35	K-25 Gold	72.9	56.1	65.9	56.7	62.9	59.0	61.8	66.7	59.8	60.4	61.5	70.1	66.7	69.4	53.3	50.6	59.5	50.7	60.1	66.1	48.6	59.4	79.2	63.9	61.8	63.2	61.8

Table No. 1 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)																						OV'L				
		ZN 2					ZN 3					ZN 4					ZN 5											
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean	Mean
36	IN 8569	75.7	58.9	76.9	58.3	67.5	64.6	61.8	64.4	61.6	67.7	64.0	82.6	66.0	73.9	51.7	50.6	58.9	55.6	62.7	56.1	57.6	50.6	80.6	59.3	61.1	60.9	63.4
37	GK-3118	73.6	60.0	71.9	57.2	65.7	65.3	63.9	64.4	60.7	66.7	64.2	72.9	65.3	72.2	61.7	51.1	61.3	59.7	63.5	50.6	56.3	53.3	77.8	64.8	60.4	60.5	63.2
38	DMRH1409	76.4	61.7	70.5	55.0	65.9	56.3	62.5	65.0	61.6	70.8	63.2	82.6	66.7	71.1	55.0	53.3	60.7	54.9	63.5	57.2	61.1	52.8	77.8	60.2	63.2	62.0	63.5
39	VNR 31862	76.4	60.0	68.2	59.4	66.0	60.4	59.7	62.8	67.9	61.5	62.4	79.2	66.0	73.9	49.4	53.3	57.7	58.3	62.6	58.3	52.1	47.8	76.4	63.9	58.3	59.5	62.3
40	MAH-957	74.3	59.4	72.8	58.3	66.2	62.5	62.5	63.9	61.6	60.4	62.2	70.8	66.7	71.7	59.4	51.7	60.7	47.9	61.3	61.1	59.0	55.6	68.1	63.0	61.1	61.3	62.4
41	DMH-7721	75.7	59.4	71.9	60.0	66.8	61.8	62.5	67.8	59.8	66.7	63.7	75.7	66.7	72.8	47.8	52.2	63.1	57.6	62.3	63.3	59.7	48.9	76.4	66.7	59.0	62.3	63.4
42	NT 8711	75.7	60.0	71.9	58.9	66.6	60.4	58.3	66.1	64.3	63.5	62.5	78.5	65.3	71.7	53.3	53.3	61.9	55.6	62.8	62.2	61.1	45.6	72.2	61.1	61.1	60.6	62.8
43	JH 13249	75.0	58.9	70.1	59.4	65.8	60.4	63.9	67.8	64.3	64.6	64.2	73.6	64.6	70.0	51.7	52.8	63.7	52.1	61.2	68.9	62.5	52.2	59.7	63.0	61.8	61.4	62.8
44	SAMH-225	75.0	58.9	68.2	63.3	66.4	73.6	59.7	68.3	58.0	66.7	65.3	67.4	66.0	71.7	48.9	53.3	68.5	41.7	59.6	60.0	57.6	46.1	66.7	61.1	63.9	59.2	62.0
45	JH 13041	76.4	59.4	70.1	63.3	67.3	60.4	58.3	66.1	61.6	66.7	62.6	67.4	65.3	71.7	62.2	53.3	60.1	51.4	61.6	57.8	56.9	52.8	75.0	63.9	59.7	61.0	62.7
46	JH 12063	74.3	58.9	69.6	61.7	66.1	66.7	62.5	66.7	70.5	61.5	65.6	68.1	65.3	73.3	55.0	53.3	64.9	51.4	61.6	49.4	63.9	43.9	80.6	63.0	61.1	60.3	63.0
47	JH 13094	72.9	60.0	74.2	61.7	67.2	67.4	61.8	64.4	70.5	65.6	66.0	80.6	66.0	71.7	56.7	52.2	64.3	56.3	63.9	61.1	58.3	51.7	73.6	65.7	62.5	62.2	64.5
48	RMH-726	75.7	57.8	71.9	62.8	67.0	71.5	62.5	67.2	69.6	72.9	68.8	72.9	66.7	73.3	59.4	53.3	64.3	50.7	63.0	58.9	58.3	58.9	76.4	60.2	62.5	62.5	64.9
49	JH 13044	72.9	58.3	71.4	61.7	66.1	60.4	61.8	67.2	67.0	67.7	64.8	76.4	65.3	68.9	56.7	53.3	63.1	56.9	62.9	47.2	61.1	56.7	83.3	61.1	61.1	61.8	63.6
50	PMSW 4	76.4	57.8	67.3	63.3	66.2	70.1	62.5	65.6	63.4	66.7	65.7	66.7	66.0	71.7	58.9	53.3	67.3	50.0	62.0	62.8	57.6	45.0	73.6	61.1	61.1	60.2	63.1
51	PM 14104L	73.6	58.9	71.4	58.3	65.6	63.9	63.2	65.6	67.0	61.5	64.2	77.1	66.0	72.2	56.7	53.3	59.5	53.5	62.6	51.1	56.9	57.2	83.3	57.4	61.8	61.3	63.2
52	CP.555	72.2	57.8	76.0	60.0	66.5	67.4	61.8	64.4	65.2	71.9	66.1	81.9	65.3	72.8	62.8	52.8	58.9	52.1	63.8	50.6	54.9	63.9	83.3	61.1	61.1	62.5	64.5
53	JH 13183	76.4	60.0	73.3	62.8	68.1	73.6	60.4	66.7	59.8	65.6	65.2	69.4	66.0	67.8	50.0	51.7	61.9	54.9	60.2	56.7	65.3	47.2	77.8	64.8	61.8	62.3	63.4
54	DMRH1411	75.0	56.1	67.3	62.2	65.2	62.5	61.1	64.4	67.0	67.7	64.5	79.9	66.7	68.9	52.8	53.3	58.3	56.9	62.4	63.9	61.8	56.1	83.3	63.9	61.1	65.0	64.1
55	JH 12150	74.3	62.2	67.8	64.4	67.2	65.3	63.9	67.2	64.3	60.4	64.2	76.4	66.0	68.9	65.0	51.1	67.3	49.3	63.4	55.6	45.8	35.6	83.3	61.1	61.1	57.1	62.6
56	Gin 02	75.0	56.1	71.4	63.9	66.6	61.8	59.7	67.2	69.6	62.5	64.2	76.4	66.0	72.8	53.9	53.3	60.7	53.5	62.4	61.7	57.6	56.7	79.2	67.6	62.5	64.2	64.1
57	BH 412140	76.4	58.9	71.9	62.8	67.5	70.1	62.5	67.2	58.9	62.5	64.3	78.5	66.7	70.0	57.2	52.8	63.7	51.4	62.9	45.6	56.9	50.0	80.6	65.7	61.1	60.0	63.2
58	NT 6325	74.3	60.6	73.3	64.4	68.1	59.7	60.4	67.2	65.2	62.5	63.0	80.6	65.3	71.7	60.0	50.0	60.7	52.1	62.9	66.1	56.3	61.1	83.3	67.6	61.1	65.9	64.7
59	DMRH1308	77.1	58.9	69.1	62.8	67.0	70.1	59.0	66.1	58.0	65.6	63.8	63.9	66.7	72.8	61.1	52.2	64.3	61.1	63.2	63.3	65.3	48.9	83.3	62.0	61.8	64.1	64.3
60	ADV 1190384	74.3	57.8	71.9	62.2	66.5	55.6	63.9	66.1	67.0	63.5	63.2	74.3	66.0	70.0	60.0	53.3	58.3	52.8	62.1	50.0	59.7	56.7	79.2	64.8	61.1	61.9	63.1
61	HT 51412373	76.4	58.9	70.5	63.3	67.3	62.5	63.2	66.1	55.4	61.5	61.7	75.7	66.0	71.1	60.0	53.3	62.5	49.3	62.6	55.0	63.9	38.9	55.6	63.0	61.8	56.4	61.5
62	SAFAL X-2	69.4	55.0	70.1	62.8	64.3	62.5	60.4	63.9	61.6	64.6	62.6	69.4	66.7	70.0	54.4	53.3	62.5	57.6	62.0	53.9	61.8	58.9	79.2	63.9	59.7	62.9	62.8
63	JH 13197	72.2	61.1	62.3	60.0	63.9	56.3	63.2	67.2	64.3	62.5	62.7	77.8	66.0	71.1	58.9	53.3	60.1	50.7	62.6	58.9	52.8	50.6	80.6	63.9	61.1	61.3	62.5
64	super 6768	72.2	60.6	60.0	60.0	63.2	62.5	59.7	66.1	61.6	59.4	61.9	59.0	66.0	65.0	54.4	51.1	58.9	51.4	58.0	54.4	61.8	56.1	68.1	62.0	61.8	60.7	60.6
65	JH 13278	76.4	59.4	74.2	60.0	67.5	66.0	60.4	66.1	64.3	60.4	63.4	77.8	66.0	71.7	63.9	52.8	62.5	50.0	63.5	55.6	63.2	66.7	76.4	65.7	62.5	65.0	64.6
66	IN 8570	75.0	56.7	70.1	63.3	66.3	62.5	64.6	63.9	66.1	62.5	63.9	79.9	66.0	70.6	64.4	50.6	63.1	53.5	64.0	47.2	55.6	61.1	79.2	63.0	61.8	61.3	63.7
67	GPMH-1111	77.1	59.4	67.3	60.0	66.0	65.3	63.2	67.2	57.1	63.5	63.3	79.2	66.7	68.9	47.2	50.0	58.3	49.3	59.9	63.3	62.5	50.6	63.9	63.9	61.1	60.9	62.0
68	JH 13248	74.3	57.8	67.3	57.8	64.3	62.5	63.2	65.0	57.1	62.5	62.1	71.5	66.0	71.7	53.9	52.8	61.9	54.9	61.8	56.7	60.4	53.9	61.1	65.7	61.1	59.8	61.8
69	SAMH-378	76.4	58.9	72.8	63.3	67.9	66.0	61.8	64.4	70.5	58.3	64.2	67.4	63.2	71.1	51.7	53.3	61.9	44.4	59.0	55.0	54.9	49.4	58.3	61.1	61.1	56.6	61.2
70	KH-2192	69.4	56.1	71.4	61.7	64.7	61.1	61.1	65.6	59.8	61.5	61.8	75.7	66.0	70.0	53.9	53.3	63.1	56.9	62.7	56.7	63.2	50.0	76.4	63.0	62.5	62.0	62.7

Table No. 1 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)																										
		ZN 2										ZN 3					ZN 4					ZN 5		OV'L				
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean	Mean
71	ADV 0990293	72.2	63.3	71.0	62.8	67.3	60.4	61.1	66.1	57.1	63.5	61.7	71.5	66.7	67.2	56.1	49.4	60.7	52.8	60.6	51.1	55.6	51.1	83.3	64.8	61.1	61.2	62.2
72	JH 13252	69.4	59.4	74.6	63.3	66.7	62.5	63.2	66.7	68.8	62.5	64.7	77.8	66.7	71.7	53.3	51.1	64.3	56.9	63.1	60.0	58.3	55.0	76.4	69.4	62.5	63.6	64.3
73	NMH 1605	72.2	59.4	63.2	60.0	63.7	69.4	64.6	65.0	63.4	62.5	65.0	73.6	64.6	64.4	51.7	53.3	58.9	48.6	59.3	56.7	63.9	55.0	77.8	63.9	61.1	63.1	62.4
74	GPMH-1101	72.2	58.3	72.3	62.2	66.3	60.4	60.4	66.7	68.8	59.4	63.1	73.6	63.2	72.2	60.0	47.8	56.5	47.2	60.1	61.1	47.9	42.2	76.4	69.4	59.0	59.4	61.7
75	PM 14101L	76.4	61.7	72.8	61.1	68.0	61.1	60.4	65.0	60.7	63.5	62.2	75.0	64.6	72.2	61.7	50.6	60.7	56.9	63.1	57.2	47.2	48.3	81.9	65.7	61.1	60.3	63.0
76	CMH12-667	75.0	57.8	65.5	56.7	63.7	59.7	62.5	66.1	62.5	62.5	62.7	66.7	66.0	71.1	56.1	53.3	57.7	51.4	60.3	63.3	61.1	41.1	72.2	66.7	61.1	60.9	61.6
77	BH 412141	77.1	58.9	71.4	62.2	67.4	67.4	63.9	67.8	62.5	63.5	65.0	77.1	65.3	68.3	55.0	53.3	63.1	58.3	62.9	58.9	67.4	53.9	79.2	66.7	60.4	64.4	64.6
78	Srikar 3033	74.3	58.3	65.9	58.9	64.4	66.7	62.5	66.7	60.7	63.5	64.0	75.7	66.0	72.2	58.9	51.7	57.7	50.7	61.8	49.4	59.7	55.0	81.9	63.9	61.1	61.9	62.8
79	JH 13282	69.4	60.0	71.4	60.6	65.4	66.7	62.5	62.8	63.4	62.5	63.6	75.0	66.7	71.7	56.1	53.3	64.9	59.7	63.9	54.4	56.3	52.2	79.2	63.9	63.2	61.5	63.4
80	IN 8903	72.2	58.9	68.7	58.3	64.5	66.7	63.9	65.0	62.5	61.5	63.9	77.1	66.7	70.0	60.6	51.1	61.3	53.5	62.9	61.1	54.9	53.3	80.6	66.7	61.1	62.9	63.4
81	GYH-0652	69.4	60.0	65.9	60.6	64.0	61.1	60.4	65.6	59.8	58.3	61.0	72.2	64.6	71.7	52.2	52.8	61.9	52.8	61.2	53.3	60.4	53.3	73.6	65.7	61.1	61.3	61.7
82	NMH 1008	72.2	57.8	72.3	58.9	65.3	56.3	59.7	67.8	67.0	62.5	62.6	79.2	66.0	73.3	63.3	53.3	61.3	54.9	64.5	58.9	58.3	53.9	83.3	69.4	61.1	64.2	64.1
83	GK-3124	72.2	58.9	67.3	62.8	65.3	66.0	62.5	64.4	63.4	64.6	64.2	76.4	66.7	72.2	49.4	53.3	62.5	58.3	62.7	55.6	54.9	56.1	83.3	66.7	61.1	62.9	63.6
84	ADV 0990296	76.4	59.4	72.3	62.2	67.6	56.3	61.8	66.1	60.7	63.5	61.7	75.7	66.0	72.2	61.1	53.3	65.5	51.4	63.6	55.0	61.8	47.8	77.8	63.0	61.1	61.1	63.2
85	CMH11-618	75.0	59.4	68.2	62.8	66.4	66.0	61.8	66.7	59.8	61.5	63.1	70.8	66.0	69.4	53.3	52.2	62.5	56.9	61.6	59.4	54.9	57.8	79.2	61.1	61.1	62.2	63.0
86	REH2013-5	77.1	59.4	60.0	58.9	63.8	62.5	62.5	66.1	63.4	59.4	62.8	57.6	66.0	60.0	52.8	53.3	60.1	50.7	57.2	56.7	61.1	43.9	80.6	65.7	61.1	61.5	60.9
87	DAS-MH-106	74.3	59.4	71.9	62.8	67.1	63.2	60.4	66.7	60.7	66.7	63.5	77.8	66.0	71.7	57.8	52.8	64.9	53.5	63.5	56.7	49.3	51.1	72.2	66.7	60.4	59.4	63.0
88	JH 13244	72.2	58.3	66.8	60.6	64.5	62.5	60.4	65.0	67.9	64.6	64.1	80.6	66.7	71.1	52.8	53.3	59.5	58.3	63.2	65.6	57.6	50.6	72.2	64.8	61.8	62.1	63.3
89	AMH-3436	76.4	57.8	72.3	62.2	67.2	60.4	61.1	67.8	57.1	66.7	62.6	76.4	66.0	71.7	55.6	53.3	60.1	50.0	61.9	63.3	57.6	54.4	76.4	65.7	61.1	63.1	63.3
90	IN 8603	75.0	60.6	76.0	59.4	67.8	59.7	62.5	65.6	62.5	62.5	62.6	72.9	65.3	72.8	56.7	53.3	64.9	56.3	63.2	63.9	63.9	47.2	79.2	66.7	61.1	63.7	64.0
91	JH 13230	77.1	60.0	73.3	60.0	67.6	64.6	63.2	65.6	63.4	70.8	65.5	77.1	66.0	72.8	52.8	51.7	61.3	54.2	62.3	51.1	62.5	55.6	80.6	66.7	61.1	62.9	64.1
92	DAS-MH-107	74.3	57.8	72.3	59.4	66.0	68.1	64.6	66.7	67.0	58.3	64.9	75.0	65.3	72.8	58.3	52.2	60.1	53.5	62.5	60.0	63.9	57.8	54.2	68.5	61.8	61.0	63.3
93	IAHM 2013-12	74.3	57.8	75.1	62.2	67.3	59.7	63.2	65.6	62.5	60.4	62.3	77.8	65.3	74.4	56.7	53.3	60.1	50.7	62.6	58.9	63.9	46.7	76.4	65.7	56.9	61.4	63.1
94	JH 12010	76.4	59.4	67.8	60.0	65.9	66.7	59.7	64.4	61.6	61.5	62.8	66.0	65.3	68.3	66.1	51.7	63.7	56.3	62.5	60.0	57.6	50.0	79.2	64.8	61.8	62.2	63.1
95	BH 412131	69.4	58.3	60.4	55.6	60.9	68.8	61.8	65.6	63.4	60.4	64.0	46.5	66.0	52.2	43.9	53.3	61.3	50.0	53.3	57.2	61.8	63.3	66.7	64.8	61.1	62.5	59.6
96	Super 1177	72.2	60.0	69.6	57.2	64.8	62.5	62.5	67.8	59.8	67.7	64.1	75.7	65.3	72.2	61.7	52.8	60.1	54.2	63.1	61.7	54.9	45.0	80.6	69.4	61.1	62.1	63.4
97	Super 777	69.4	57.2	63.2	63.3	63.3	62.5	62.5	63.9	63.4	60.4	62.5	75.7	65.3	72.2	43.3	52.2	59.5	56.3	60.6	57.8	55.6	55.0	77.8	66.7	61.1	62.3	62.0
98	GH-110145	72.2	58.3	70.5	60.6	65.4	59.7	61.1	63.3	63.4	58.3	61.2	72.9	65.3	65.6	52.2	53.3	60.7	51.4	60.2	59.4	58.3	58.9	69.4	65.7	61.1	62.2	61.9
99	JH 13045	74.3	57.2	68.7	60.0	65.1	65.3	62.5	65.6	61.6	56.3	62.2	62.5	65.3	72.2	51.7	51.1	62.5	55.6	60.1	63.3	47.9	52.8	77.8	66.7	61.1	61.6	61.9
100	JH 13037	74.3	57.8	69.6	62.2	66.0	65.3	62.5	66.1	70.5	63.5	65.6	77.1	66.0	73.3	51.7	53.3	63.7	56.3	63.0	54.4	54.9	54.4	70.8	66.7	59.7	60.2	63.4
101	MAH-974	76.4	58.3	61.8	60.6	64.3	64.6	62.5	63.9	62.5	60.4	62.8	69.4	64.6	62.2	51.1	51.7	61.3	49.3	58.5	56.1	61.8	57.8	72.2	66.7	61.1	62.6	61.7
102	BH 412096	69.4	56.1	71.0	60.6	64.3	66.7	63.9	65.6	61.6	63.5	64.3	80.6	66.7	70.6	59.4	53.3	62.5	56.9	64.3	58.3	58.3	57.2	83.3	63.9	61.1	63.7	64.1
103	PRMH-189	72.2	57.8	72.3	58.3	65.2	56.3	62.5	66.1	63.4	64.6	62.6	74.3	66.7	71.7	57.2	53.3	63.7	54.2	63.0	56.1	56.3	48.3	79.2	68.5	60.4	61.5	62.9
104	IN 8902	69.4	57.2	68.2	56.7	62.9	59.0	59.7	65.6	58.0	62.5	61.0	69.4	65.3	72.2	56.7	53.3	63.7	52.8	61.9	62.2	66.0	50.6	83.3	66.7	61.1	65.0	62.7
105	IN 8602	77.8	59.4	73.7	61.7	68.2	62.5	60.4	65.6	63.4	55.2	61.4	72.2	66.0	71.7	58.3	53.3	62.5	48.6	61.8	49.4	57.6	61.1	79.2	65.7	63.9	62.8	63.2

Table No. 1 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)																								OV'L		
		ZN 2					ZN 3					ZN 4					ZN 5											
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	JHAB		UDAI	Mean
106	REH2013-6	72.2	58.9	49.0	59.4	59.9	66.7	61.1	62.2	62.5	61.5	62.8	53.5	65.3	54.4	32.2	50.6	59.5	47.2	51.8	57.8	57.6	38.9	77.8	66.7	61.1	60.0	58.0
107	JH 13270	77.8	58.3	70.1	62.2	67.1	66.7	62.5	66.7	61.6	66.7	64.8	77.8	66.0	73.3	50.6	53.3	58.9	57.6	62.5	61.7	47.2	54.4	72.2	66.7	61.1	60.6	63.3
108	BH 412095	74.3	62.2	71.9	63.3	67.9	59.7	62.5	67.8	65.2	67.7	64.6	79.2	65.3	71.1	54.4	53.3	64.9	59.0	63.9	56.7	58.3	50.0	69.4	64.8	61.1	60.1	63.7
109	HKH423	74.3	60.6	62.3	60.6	64.4	59.7	62.5	62.8	64.3	63.5	62.6	59.0	65.3	71.7	55.6	51.7	61.9	50.0	59.3	52.8	58.3	45.6	65.3	64.8	61.8	58.1	60.6
110	Sonam -27	77.8	58.9	67.8	58.9	65.8	61.1	62.5	67.8	58.0	62.5	62.4	80.6	66.0	72.2	56.7	51.1	63.1	55.6	63.6	57.2	60.4	59.4	70.8	66.7	61.1	62.6	63.5
111	REH2013-2	71.5	58.9	65.9	60.6	64.2	62.5	60.4	63.3	62.5	63.5	62.5	68.8	65.3	66.7	41.7	51.7	63.7	43.8	57.4	53.9	52.1	49.4	69.4	63.9	61.1	58.3	60.0
112	JKMH 4023	71.5	61.7	69.6	58.9	65.4	62.5	64.6	66.7	70.5	61.5	65.1	67.4	65.3	73.3	50.0	50.6	63.7	52.1	60.3	61.7	61.1	50.0	73.6	65.7	59.7	62.0	62.8
113	AH 7005	77.8	62.2	70.1	62.2	68.1	67.4	62.5	67.2	67.0	62.5	65.3	71.5	64.6	72.8	55.6	53.3	61.9	48.6	61.2	64.4	53.5	55.6	61.1	66.7	59.0	60.0	63.1
114	CSM-1	72.2	60.0	62.3	62.8	64.3	66.7	62.5	64.4	57.1	61.5	62.4	69.4	64.6	71.1	61.7	53.3	57.1	46.5	60.5	57.2	47.9	48.9	58.3	65.7	62.5	56.8	60.6
115	CSM-2	77.8	59.4	47.2	56.7	60.3	62.5	58.3	62.2	56.3	63.5	60.6	47.2	66.7	48.3	46.7	51.7	63.7	38.9	51.9	57.2	63.2	52.2	72.2	65.7	61.1	62.0	58.1
CHECKS																												
116	PMH1	74.3	60.0	70.1	60.6	66.2	67.4	61.8	65.0	62.5	63.5	64.0	72.2	66.7	70.6	52.8	52.8	60.7	54.2	61.4	61.7	63.2	39.4	51.4	66.7	62.5	57.5	61.8
117	PMH3	74.3	59.4	67.8	57.2	64.7	66.7	59.7	63.9	58.0	65.6	62.8	79.9	65.3	70.6	67.8	53.3	59.5	54.2	64.4	56.7	54.2	56.7	81.9	64.8	61.1	62.6	63.6
118	BIO-9681	77.8	58.9	60.0	61.7	64.6	57.6	61.8	61.7	58.9	65.6	61.1	69.4	65.3	69.4	48.3	52.2	60.1	54.9	60.0	55.0	56.9	61.1	80.6	66.7	63.2	63.9	62.1
119	SeedTech 2324	71.5	57.8	71.0	61.7	65.5	64.6	64.6	66.1	66.1	66.7	65.6	80.6	65.3	73.3	52.8	53.3	67.9	52.1	63.6	64.4	62.5	48.9	79.2	68.5	61.1	64.1	64.5
120	HM11	71.5	60.6	68.7	59.4	65.1	62.5	60.4	65.6	59.8	61.5	62.0	77.8	64.6	72.2	46.7	53.3	57.7	53.5	60.8	57.2	54.9	55.0	68.1	66.7	61.8	60.6	61.8
	Loc. Mean	74.5	59.1	69.2	60.7	65.9	63.0	62.0	65.7	61.9	63.5	63.3	73.2	65.7	70.3	55.1	52.5	61.5	53.4	61.7	57.9	58.3	52.5	75.2	64.0	61.3	61.5	62.8
	C.D. (5%)	5.54	3.86	5.62	4.68	4.13	6.61	5.84	3.18	8.34	6.82	3.92	10.69	1.79	5.19	4.59	3.52	6.64	8.90	4.06	6.43	12.19	15.73	7.81	4.93	2.12	5.51	2.30
	C.V. (%)	4.62	4.06	5.84	4.79	4.51	6.53	5.86	3.01	6.80	5.42	4.98	9.08	1.69	4.60	5.18	4.17	6.71	10.37	6.27	6.90	13.00	18.64	6.46	4.79	2.15	7.90	6.21
	F (Prob)	0.01	0.25	0.00	0.00	0.01	0.00	1.00	0.00	0.00	0.00	0.13	0.00	0.03	0.00	0.00	0.42	0.13	0.00	0.00	0.00	0.26	0.33	0.00	0.00	0.00	0.66	0.00

Table No. 1 (Continued)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED																							OV'L			
		ZN 2					ZN 3					ZN 4					ZN 5											
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean	Mean
1	GPS -03	54.3	52.3	50.8	54.0	52.9	53.7	53.0	56.7	55.0	59.5	55.6	61.7	58.0	58.3	56.0	66.0	56.7	56.7	59.0	54.7	54.3	54.0	55.0	51.7	53.7	53.9	55.7
2	DMRH1416	53.7	53.7	52.3	57.0	54.1	55.3	56.0	56.7	54.5	56.0	55.7	58.7	53.7	57.0	54.0	67.0	55.0	55.0	57.2	56.0	54.3	58.0	52.3	50.7	49.3	53.4	55.3
3	HT 51412607	53.0	54.0	51.5	54.0	53.1	59.7	56.7	57.3	55.0	60.0	57.7	61.7	55.0	60.0	56.3	66.0	54.3	56.0	58.5	56.0	54.0	58.3	53.0	49.3	51.0	53.6	56.0
4	GPS -02	51.3	51.7	50.8	52.7	51.6	54.3	55.3	56.7	56.0	57.0	55.9	59.3	55.3	57.0	55.0	66.0	54.7	54.7	57.4	57.7	55.3	54.3	55.0	50.0	50.0	53.7	55.0
5	SYN417750	52.0	53.0	49.8	50.7	51.4	56.0	55.0	51.7	52.0	56.0	54.1	54.7	52.0	56.0	53.3	64.0	52.3	49.7	54.6	54.7	54.0	55.3	49.7	51.0	47.7	52.1	53.2
6	DMRH1415	51.7	55.0	51.8	52.0	52.6	60.3	52.7	56.3	58.0	57.0	56.9	58.3	52.7	57.0	52.0	60.0	57.0	52.7	55.7	58.7	53.3	55.3	57.7	51.3	51.7	54.7	55.1
7	GH-110204	54.3	48.0	47.0	52.3	50.4	50.3	51.7	51.3	56.5	48.5	51.7	55.3	46.0	53.7	51.3	64.0	51.7	49.3	53.0	59.3	54.7	54.7	50.3	49.7	49.0	52.9	52.2
8	KH-1408	54.7	55.0	53.5	59.3	55.6	58.3	55.0	60.7	56.0	60.5	58.1	62.0	56.3	58.7	56.0	67.0	55.0	56.7	58.8	57.0	54.7	59.3	52.7	51.0	60.0	55.8	57.2
9	NMH-1247	53.0	53.7	51.0	53.7	52.8	53.3	54.0	56.0	55.5	56.0	55.0	60.0	56.0	56.7	53.7	66.0	54.7	54.0	57.3	56.3	54.7	55.7	54.0	51.3	49.3	53.6	54.9
10	HKH422	51.7	55.3	52.3	54.3	53.4	54.3	53.7	56.7	55.0	57.5	55.4	57.3	52.0	56.7	53.0	67.0	55.0	53.0	56.3	58.3	55.3	58.0	51.7	52.3	51.0	54.4	55.1
11	VEH 14-1	50.3	56.3	51.3	55.0	53.2	60.7	52.0	58.3	53.0	61.5	57.1	61.3	53.3	58.3	56.3	61.0	56.0	55.0	57.3	58.0	54.0	56.7	54.7	49.7	56.3	54.9	55.9
12	PM 14102L	50.3	54.0	52.3	59.7	54.1	61.7	54.0	60.3	58.0	58.5	58.5	61.7	54.7	58.3	54.7	64.0	55.3	53.7	57.5	59.0	55.0	57.7	55.7	52.3	52.3	55.3	56.5
13	Gin 01	49.7	55.3	51.8	56.0	53.2	60.3	54.0	58.7	57.0	60.0	58.0	62.7	58.0	60.0	56.3	67.0	58.3	58.0	60.0	59.3	55.7	56.0	57.0	49.7	54.0	55.3	57.0
14	JH 13023	51.3	55.0	51.3	57.3	53.7	56.7	55.7	57.0	54.5	56.5	56.1	60.3	56.0	58.7	55.7	66.0	56.3	55.3	58.3	58.0	54.7	57.7	52.3	50.0	51.0	53.9	55.8
15	115-08-01	53.0	56.3	50.8	57.0	54.3	59.0	54.3	58.0	55.0	57.0	56.7	58.3	54.7	57.0	56.0	66.0	53.7	53.3	57.0	57.7	53.3	57.7	51.0	51.3	50.7	53.6	55.5
16	KF-110	52.3	51.7	48.8	52.3	51.3	52.7	54.3	56.0	56.0	56.5	55.1	57.7	52.0	57.0	53.0	64.0	54.3	56.0	56.3	56.7	55.0	56.3	51.3	51.0	49.7	53.3	54.3
17	PM 14106L	53.3	53.3	52.0	55.0	53.4	55.3	52.7	58.0	58.0	58.0	56.4	59.3	52.3	57.7	53.3	63.0	54.0	53.0	56.1	59.0	55.3	55.0	54.3	51.0	54.7	54.9	55.3
18	PM 14105L	54.0	55.0	53.5	56.7	54.8	60.3	52.3	57.0	53.5	58.0	56.2	61.0	52.7	57.0	57.3	63.0	53.7	51.7	56.6	52.7	54.7	55.7	54.0	49.7	50.7	52.9	55.2
19	Bio-069	55.0	55.3	53.3	58.7	55.6	54.3	55.3	56.3	56.0	60.5	56.5	60.3	54.7	57.7	55.7	66.0	55.3	57.3	58.1	56.7	54.7	58.0	53.7	48.7	52.3	54.0	56.2
20	PMSY -3	49.7	52.7	49.0	53.7	51.3	52.3	56.0	53.7	53.5	52.5	53.6	56.7	51.3	55.0	50.3	62.0	52.3	53.0	54.4	53.0	55.0	55.0	53.7	50.7	50.7	53.0	53.3
21	NT 8441	52.7	55.7	51.0	56.7	54.0	58.3	56.3	56.7	54.0	58.0	56.7	62.3	57.7	59.7	55.7	67.0	57.3	56.3	59.4	55.3	54.3	57.3	56.7	50.3	51.7	54.3	56.4
22	Proline-2404	50.7	53.7	52.3	56.3	53.2	50.7	55.7	57.0	55.5	57.0	55.2	61.7	54.0	57.3	54.7	67.0	55.0	54.3	57.7	59.3	53.7	58.7	55.0	50.0	50.7	54.6	55.5
23	siri -4555	49.7	53.7	51.3	53.3	52.0	55.0	56.3	60.3	56.0	58.0	57.1	61.7	53.0	57.7	58.7	66.0	55.0	55.0	58.1	62.7	53.7	57.0	52.0	52.0	52.3	54.9	55.9
24	JKMH 4242	52.0	48.0	48.5	51.3	50.0	53.0	56.0	55.0	54.0	53.5	54.3	56.3	52.0	54.0	50.7	59.0	52.7	50.0	53.5	59.0	54.0	57.0	53.7	49.3	50.3	53.9	53.2
25	GOLD 1166	53.3	51.7	51.3	52.7	52.2	54.3	54.0	55.3	54.5	57.0	55.0	57.3	54.0	56.0	52.3	64.0	54.3	52.0	55.7	51.7	54.0	58.7	55.3	50.7	52.3	53.8	54.4
26	VNR 4325	53.0	55.3	51.0	54.3	53.4	54.3	54.7	57.3	54.0	55.5	55.2	58.3	55.0	56.0	53.3	67.0	53.3	53.7	56.7	62.7	55.0	57.0	55.0	50.7	53.3	55.6	55.4
27	CMH12-671	54.0	60.0	52.0	55.0	55.3	59.3	54.7	57.0	57.0	56.0	56.8	61.0	55.0	57.7	54.7	62.0	55.3	53.7	57.0	57.7	54.0	56.3	55.0	50.7	60.3	55.7	56.3
28	HT 51412616	53.7	51.3	51.5	55.0	52.9	56.3	54.3	57.0	54.5	59.5	56.3	62.3	55.7	59.3	58.7	65.0	54.0	55.3	58.6	59.0	53.3	58.0	53.0	50.0	52.0	54.2	55.9
29	CMH10-555	48.3	55.0	52.0	55.0	52.6	58.7	54.3	56.7	53.5	55.5	55.7	62.0	54.7	59.0	55.3	68.0	56.0	55.3	58.6	54.0	54.7	57.7	57.0	52.0	50.3	54.3	55.7
30	CMH12-663	47.0	56.0	51.8	60.0	53.7	61.3	54.0	58.0	54.5	60.5	57.7	61.7	56.7	59.7	55.7	68.0	57.0	58.7	59.6	59.3	54.3	56.3	57.3	51.3	53.3	55.3	56.9
31	DKC9125	48.0	55.7	51.5	52.3	51.9	58.7	56.3	58.3	53.5	59.5	57.3	62.3	57.7	58.3	59.3	60.0	57.0	56.3	58.7	58.0	55.7	57.0	56.3	51.0	52.7	55.1	56.2
32	KMH-3981	47.0	58.7	52.8	54.3	53.2	65.3	53.7	62.0	56.5	59.0	59.3	62.7	55.7	60.3	58.0	65.0	56.3	57.7	59.4	52.7	53.3	57.0	56.0	50.7	56.0	54.3	56.8
33	DMH-192	49.0	55.0	50.8	52.0	51.7	57.3	57.0	56.7	57.0	59.0	57.4	58.7	52.3	57.0	53.0	64.0	55.7	53.7	56.3	53.0	54.7	59.7	53.7	50.7	51.3	53.8	55.0
34	DMRH1413	52.7	55.0	52.3	60.0	55.0	-	55.0	62.0	58.0	62.5	59.4	65.0	60.0	64.0	63.3	60.0	60.0	60.7	61.9	58.7	53.0	57.0	57.3	49.7	55.3	55.2	58.2
35	K-25 Gold	54.0	49.3	49.8	53.3	51.6	51.7	55.0	57.3	53.5	59.5	55.4	58.0	52.0	56.0	53.3	66.0	53.0	53.3	56.0	60.7	53.7	57.0	51.3	51.3	53.7	54.6	54.7

Table No. 1 (Continued)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED																								OV'L		
		ZN 2										ZN 3					ZN 4					ZN 5						
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	JHAB		UDAI	Mean
36	IN 8569	55.3	56.7	51.5	54.3	54.5	61.7	56.0	57.7	54.5	57.0	57.4	60.3	56.7	58.3	57.3	69.0	56.7	56.0	59.2	59.7	54.7	57.7	52.0	49.3	53.7	54.5	56.6
37	GK-3118	50.7	54.3	51.3	55.7	53.0	61.3	55.3	57.0	53.0	54.5	56.2	58.7	56.0	56.0	54.0	61.0	53.7	54.0	56.2	57.0	55.3	58.3	57.3	51.0	54.0	55.5	55.4
38	DMRH1409	51.0	51.3	51.5	54.7	52.1	51.3	54.3	57.7	56.0	53.5	54.6	61.7	56.0	58.3	55.3	63.0	57.0	56.7	58.3	56.3	55.7	56.3	53.0	51.0	54.7	54.5	55.3
39	VNR 31862	51.3	54.0	50.0	53.0	52.1	53.3	55.0	56.3	53.5	52.0	54.0	60.3	55.7	57.0	56.0	66.0	56.0	54.3	57.9	58.3	55.7	55.7	55.7	49.3	51.7	54.4	55.0
40	MAH-957	49.3	49.3	49.8	53.3	50.4	50.7	55.7	55.3	56.5	55.5	54.7	56.7	51.7	54.3	49.3	66.0	52.0	51.3	54.5	55.0	55.7	57.7	50.3	49.3	52.3	53.4	53.5
41	DMH-7721	51.7	53.3	51.5	52.3	52.2	57.3	53.7	54.7	58.0	56.0	55.9	59.7	53.7	56.7	54.0	65.0	53.7	54.0	56.7	57.0	55.0	57.0	52.7	51.7	52.0	54.2	55.0
42	NT 8711	54.7	54.7	52.0	57.7	54.8	58.3	55.3	57.0	58.5	55.5	56.9	61.0	56.3	58.3	54.3	71.0	54.0	56.3	58.8	62.0	55.3	54.3	53.0	49.7	51.0	54.2	56.4
43	JH 13249	54.7	55.3	51.3	53.7	53.7	51.3	54.7	59.7	56.0	58.0	55.9	60.3	54.3	58.7	54.7	66.0	55.3	57.0	58.0	58.0	55.7	57.0	55.7	50.3	52.7	54.9	55.9
44	SAMH-225	50.7	53.7	51.0	54.0	52.3	56.7	53.3	56.3	56.0	56.0	55.7	62.0	55.0	58.0	55.7	65.0	55.0	55.0	58.0	55.7	55.3	57.3	54.0	51.3	52.7	54.4	55.4
45	JH 13041	49.7	54.7	51.8	59.0	53.8	55.7	54.0	57.0	57.0	60.0	56.7	60.0	56.7	58.3	55.0	65.0	54.0	55.0	57.7	60.7	55.0	55.7	52.7	51.7	52.7	54.7	56.0
46	JH 12063	53.0	54.7	52.5	58.0	54.5	60.7	54.7	59.0	57.0	60.5	58.4	62.7	56.7	60.3	57.0	71.0	55.7	59.0	60.3	56.7	54.3	58.3	54.0	51.3	52.7	54.6	57.3
47	JH 13094	54.0	53.0	53.0	58.0	54.5	61.3	54.7	59.3	57.0	59.5	58.4	62.7	58.3	60.7	56.7	65.0	59.0	58.3	60.1	55.3	54.7	56.0	56.3	52.0	59.3	55.6	57.5
48	RMH-726	50.0	52.3	52.0	54.3	52.2	58.3	55.3	57.7	57.0	55.0	56.7	57.3	55.3	56.3	54.0	62.0	53.0	52.3	55.8	57.3	54.0	54.7	52.3	50.7	52.0	53.5	54.7
49	JH 13044	49.7	53.7	52.0	57.7	53.3	56.7	52.0	58.3	57.0	58.0	56.4	62.3	56.0	58.3	57.3	64.0	55.0	56.3	58.5	54.3	54.3	56.0	55.0	51.7	60.3	55.3	56.2
50	PMSW 4	51.7	53.0	49.0	53.7	51.8	53.7	56.0	52.3	54.5	52.5	53.8	57.7	51.7	55.0	51.7	63.0	51.0	49.7	54.2	59.3	54.0	55.3	55.0	49.7	52.7	54.3	53.7
51	PM 14104L	54.0	55.0	53.5	58.0	55.1	60.3	55.7	61.3	53.5	57.0	57.6	59.3	55.3	58.7	57.3	61.0	56.7	57.0	57.9	58.3	55.3	57.3	56.3	50.0	53.0	55.1	56.5
52	CP.555	51.0	57.0	51.5	53.3	53.2	51.7	51.7	57.0	54.0	56.0	54.1	59.7	53.0	57.0	55.3	62.0	55.3	54.7	56.7	57.0	54.0	57.3	52.0	51.7	51.0	53.8	54.7
53	JH 13183	53.3	53.0	51.0	53.0	52.6	50.7	53.7	57.3	54.0	59.0	54.9	60.7	52.3	57.3	56.3	66.0	55.0	57.0	57.8	57.3	54.7	58.3	54.0	51.3	52.3	54.7	55.3
54	DMRH1411	55.0	53.3	52.3	54.0	53.6	54.3	55.3	56.7	56.0	55.5	55.6	58.7	56.3	57.0	54.3	64.0	54.0	54.7	57.0	54.0	52.7	55.7	51.3	50.7	49.3	52.3	54.8
55	JH 12150	53.0	55.7	51.5	56.0	54.0	57.7	56.7	58.3	55.0	58.5	57.2	62.0	56.7	58.3	56.0	66.0	56.7	58.0	59.1	63.3	55.0	56.7	55.0	49.3	53.0	55.4	56.7
56	Gin 02	51.3	55.0	52.0	54.0	53.1	58.7	55.3	58.3	55.0	61.0	57.7	62.3	55.0	58.7	58.0	66.0	56.0	56.3	58.9	56.0	55.0	59.7	55.3	50.7	50.3	54.5	56.4
57	BH 412140	54.3	57.0	52.0	57.0	55.1	58.3	54.3	57.7	56.0	58.5	57.0	60.3	57.7	57.3	56.0	60.7	54.3	56.0	57.5	58.0	55.3	54.7	53.0	50.0	49.3	53.4	55.8
58	NT 6325	53.0	56.3	50.3	53.0	53.1	51.3	53.0	56.0	53.5	55.0	53.8	60.0	55.7	58.0	56.0	66.0	56.3	54.3	58.0	58.7	53.3	56.7	54.0	51.3	56.0	55.0	55.4
59	DMRH1308	50.7	52.0	50.0	51.7	51.1	51.3	51.3	53.0	56.5	53.5	53.1	64.0	52.7	56.3	50.3	71.0	54.3	51.0	57.1	54.3	55.7	55.7	51.7	49.3	52.3	53.2	54.0
60	ADV 1190384	48.3	52.0	51.3	53.0	51.1	62.7	51.3	57.7	57.0	58.5	57.4	62.0	55.0	59.3	56.0	67.0	56.3	57.7	59.0	54.3	54.7	59.0	56.3	50.3	51.0	54.3	55.9
61	HT 51412373	49.3	53.0	51.0	57.3	52.7	59.3	54.7	55.3	57.0	59.5	57.2	60.0	54.3	57.0	55.7	62.0	54.7	54.3	56.9	58.3	55.3	57.0	52.0	50.0	52.7	54.2	55.4
62	SAFAL X-2	54.0	55.3	51.0	54.3	53.7	57.7	56.7	56.7	55.0	56.5	56.5	62.0	58.0	58.3	59.0	71.0	55.7	56.3	60.0	56.0	56.7	59.0	54.0	51.7	51.7	54.8	56.7
63	JH 13197	55.3	55.3	52.5	58.7	55.5	59.0	54.7	59.0	56.0	56.5	57.0	61.0	54.0	57.7	57.3	66.7	55.3	56.3	58.3	57.7	54.7	56.3	55.0	51.7	52.0	54.6	56.5
64	super 6768	51.0	54.3	49.8	53.3	52.1	48.3	54.7	56.0	54.0	55.5	53.7	58.7	51.7	56.7	52.0	64.0	54.0	53.0	55.7	56.7	53.3	59.7	50.3	50.0	49.3	53.2	53.9
65	JH 13278	53.3	50.3	50.0	52.3	51.5	49.7	53.3	55.0	54.5	58.5	54.2	59.0	52.7	57.7	56.0	66.0	53.7	55.0	57.1	54.3	55.0	58.0	55.0	51.0	53.0	54.4	54.7
66	IN 8570	55.0	54.7	51.5	55.7	54.2	60.3	53.0	57.0	57.0	57.5	57.0	61.0	56.3	58.0	55.7	65.0	54.0	56.0	58.0	55.7	55.3	54.0	56.3	50.0	50.3	53.6	55.9
67	GPMH-1111	50.7	56.0	50.0	54.7	52.8	55.7	52.3	54.7	52.5	54.5	53.9	56.3	48.0	54.7	50.0	63.0	52.0	50.7	53.5	57.0	54.7	57.7	49.3	50.0	51.7	53.4	53.5
68	JH 13248	48.3	54.7	53.0	56.0	53.0	53.7	56.0	55.0	55.0	58.5	55.6	61.3	56.7	57.3	57.3	65.0	53.3	56.3	58.2	57.7	54.0	56.3	52.3	51.7	49.3	53.6	55.4
69	SAMH-378	49.3	52.0	49.5	52.7	50.9	54.3	55.0	57.0	53.5	50.5	54.1	59.0	54.7	57.3	50.7	67.0	55.3	53.7	56.8	51.7	54.0	58.3	54.0	50.7	53.3	53.7	54.3
70	KH-2192	54.0	51.3	51.8	51.3	52.1	55.7	56.0	55.3	54.0	56.5	55.5	59.0	54.0	56.7	51.7	63.0	54.0	52.7	55.9	57.3	54.7	57.3	55.0	49.3	52.3	54.3	54.7

Table No. 1 (Continued)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED																						OV'L				
		ZN 2										ZN 3					ZN 4					ZN 5						
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI		GODH	JHAB	UDAI	Mean
71	ADV 0990293	55.3	53.7	51.5	54.0	53.6	57.7	54.3	58.3	55.5	61.5	57.5	61.7	55.0	58.7	59.7	66.0	57.3	58.0	59.5	58.0	54.7	58.3	53.0	50.3	52.7	54.5	56.6
72	JH 13252	54.0	53.3	52.5	58.0	54.5	57.7	53.3	58.0	56.0	56.5	56.3	63.0	58.3	60.0	58.0	59.0	58.7	57.0	59.1	56.7	55.0	56.7	53.0	51.0	52.0	54.1	56.3
73	NMH 1605	55.3	50.7	52.3	56.3	53.6	60.7	55.0	56.7	54.5	62.0	57.8	61.3	57.0	59.3	55.7	64.0	56.3	57.7	58.8	59.3	54.0	56.3	55.0	50.7	50.3	54.3	56.4
74	GPMH-1101	51.0	54.0	49.3	51.0	51.3	62.3	55.0	54.3	53.0	49.5	54.8	58.0	53.0	54.7	50.0	62.0	53.0	52.0	54.7	58.3	55.7	56.7	52.0	49.0	50.0	53.6	53.8
75	PM 14101L	53.3	54.3	52.8	55.3	53.9	58.3	56.7	60.0	55.0	59.5	57.9	62.3	54.7	59.7	56.3	66.0	56.3	57.0	58.9	58.3	54.3	57.0	56.3	50.3	53.0	54.9	56.7
76	CMH12-667	55.0	53.3	50.5	53.0	53.0	52.3	54.3	56.0	52.5	57.5	54.5	60.0	52.0	56.3	53.3	60.0	54.7	53.0	55.6	53.7	54.0	56.3	52.0	50.3	52.7	53.2	54.2
77	BH 412141	50.7	55.0	53.0	55.3	53.5	55.7	53.7	56.7	56.5	56.5	55.8	59.7	55.0	56.7	53.3	66.0	54.0	55.0	57.1	59.7	54.7	57.7	51.7	49.0	50.7	53.9	55.3
78	Srikar 3033	48.3	50.3	50.5	52.0	50.3	54.3	56.0	55.3	54.0	53.0	54.5	58.0	53.0	55.7	53.0	67.0	55.0	53.3	56.4	51.0	55.3	55.7	54.7	50.7	50.0	52.9	53.9
79	JH 13282	54.0	56.3	52.5	54.7	54.4	56.7	56.7	58.3	56.0	59.5	57.4	62.7	56.7	59.3	57.0	69.0	59.0	56.3	60.0	63.0	54.0	57.0	56.0	49.7	52.0	55.3	57.1
80	IN 8903	55.3	56.0	51.0	59.0	55.3	57.7	53.0	57.3	55.0	59.0	56.4	61.3	58.0	59.0	54.7	67.0	56.3	55.3	58.8	55.3	54.3	56.7	53.0	50.7	53.3	53.9	56.3
81	GYH-0652	54.0	47.7	46.8	53.0	50.4	49.0	55.0	54.0	53.0	50.0	52.2	55.3	46.0	53.0	51.0	59.0	49.7	49.3	51.9	56.0	56.0	57.0	50.7	48.3	49.0	52.8	51.9
82	NMH 1008	55.3	53.7	51.5	53.7	53.5	53.7	56.7	60.3	54.5	60.5	57.1	61.0	55.3	58.0	55.7	67.0	57.0	55.3	58.5	58.7	54.0	57.0	50.7	49.0	52.3	53.6	55.9
83	GK-3124	51.0	50.0	51.5	54.0	51.6	56.3	54.3	57.7	56.0	59.0	56.7	59.7	54.3	57.3	56.7	68.0	54.0	56.0	58.0	58.3	56.0	56.7	57.0	51.0	50.7	54.9	55.7
84	ADV 0990296	53.3	53.0	51.5	56.7	53.6	60.7	55.3	57.0	54.0	59.0	57.2	62.3	58.0	59.0	57.0	65.0	55.3	57.7	59.2	62.3	55.3	56.3	56.7	50.7	55.7	56.2	56.9
85	CMH11-618	55.0	55.7	50.5	53.3	53.6	57.0	55.3	54.7	52.5	56.0	55.1	61.3	52.7	57.3	52.3	69.0	55.3	52.7	57.2	60.3	55.0	56.0	54.3	49.3	53.3	54.7	55.4
86	REH2013-5	50.7	53.3	51.5	54.0	52.4	58.3	54.3	57.3	56.0	60.0	57.2	61.0	52.7	58.7	56.7	66.0	54.3	55.3	57.8	57.7	56.7	56.7	51.0	52.0	51.3	54.2	55.7
87	DAS-MH-106	48.3	50.3	49.8	54.0	50.6	50.3	55.7	55.0	54.0	53.5	53.7	60.7	52.3	57.7	54.0	66.0	55.0	52.3	56.9	56.0	54.3	58.0	51.7	49.7	56.7	54.4	54.3
88	JH 13244	51.0	56.7	52.0	55.0	53.7	53.3	53.0	66.3	55.0	56.5	56.8	61.3	53.3	58.7	57.0	65.0	56.0	57.7	58.4	58.0	53.0	56.3	57.3	50.7	52.0	54.6	56.1
89	AMH-3436	53.3	52.7	50.8	53.7	52.6	56.3	56.0	58.0	54.5	58.0	56.6	61.7	55.0	58.0	56.3	65.0	55.7	58.3	58.6	55.3	54.7	57.0	57.0	51.0	52.0	54.5	55.9
90	IN 8603	55.0	55.0	52.5	58.0	55.1	52.3	54.0	58.7	55.5	55.0	55.1	62.0	55.7	59.7	56.7	67.0	57.0	55.7	59.1	58.3	55.0	58.0	55.3	50.3	52.7	54.9	56.3
91	JH 13230	50.7	56.0	52.0	55.0	53.4	55.3	54.3	57.0	57.0	58.5	56.4	62.7	55.3	59.3	58.3	67.0	58.3	59.0	60.0	57.0	56.0	57.7	55.0	49.3	54.0	54.8	56.6
92	DAS-MH-107	48.3	54.7	51.0	53.7	51.9	56.7	51.3	56.3	51.5	57.5	54.7	62.0	56.0	58.0	55.0	65.0	56.0	54.3	58.0	62.3	54.0	56.0	52.0	50.3	50.3	54.2	55.1
93	IAHM 2013-12	48.3	53.7	50.0	51.7	50.9	54.7	55.7	56.7	53.0	51.5	54.3	57.7	52.0	55.7	51.3	65.0	51.3	52.7	55.1	57.3	55.3	58.3	53.3	51.0	52.3	54.6	54.0
94	JH 12010	49.3	54.0	52.5	60.7	54.1	55.7	56.0	56.0	56.0	59.5	56.6	62.7	54.0	58.0	57.7	66.0	56.3	58.0	59.0	58.3	55.7	57.0	56.7	50.7	51.7	55.0	56.5
95	BH 412131	54.0	50.0	50.8	53.7	52.1	54.0	54.7	53.0	54.0	57.0	54.5	56.7	52.0	55.0	53.0	61.0	53.3	54.3	55.0	52.7	56.0	57.0	52.7	49.3	50.3	53.0	53.8
96	Super 1177	55.3	49.7	50.0	53.7	52.2	51.7	52.3	55.7	54.0	54.5	53.6	58.0	51.3	56.7	55.0	68.0	53.0	53.0	56.4	53.7	55.7	58.0	51.7	51.7	50.3	53.5	54.2
97	Super 777	54.0	56.0	51.5	54.0	53.9	55.7	56.0	58.0	53.5	57.5	56.1	60.7	54.7	57.7	54.0	65.0	57.0	53.7	57.5	57.0	55.0	55.7	54.0	49.7	56.7	54.7	55.8
98	GH-110145	55.3	51.7	48.0	51.0	51.5	51.7	54.3	51.0	53.5	58.0	53.7	55.3	46.0	53.3	50.7	63.0	51.0	49.3	52.7	58.0	53.3	58.3	51.7	50.7	50.3	53.7	53.0
99	JH 13045	48.3	49.0	51.0	56.0	51.1	51.3	54.0	58.7	53.0	59.0	55.2	62.7	56.3	58.3	55.7	71.0	56.3	57.7	59.7	58.3	55.3	58.7	52.0	49.7	53.3	54.6	55.7
100	JH 13037	48.3	56.3	53.0	56.0	53.4	57.7	56.7	57.7	56.5	62.5	58.2	61.7	54.7	58.3	56.0	66.0	55.7	56.3	58.4	58.3	54.3	58.7	56.3	50.7	59.3	56.3	56.9
101	MAH-974	49.3	53.7	51.5	55.3	52.5	52.3	54.7	58.0	51.5	56.5	54.6	57.0	51.3	54.7	51.3	63.0	52.0	50.7	54.3	63.0	55.0	56.7	53.0	49.7	50.7	54.7	54.1
102	BH 412096	54.0	55.3	51.3	58.0	54.6	56.3	54.0	58.0	54.5	59.0	56.4	61.7	58.0	57.3	56.0	66.0	56.3	52.3	58.2	57.7	53.7	56.0	53.0	50.7	52.7	53.9	56.0
103	PRMH-189	55.3	52.0	49.8	53.3	52.6	49.7	54.7	56.3	54.0	57.0	54.3	58.7	52.0	56.3	53.3	65.3	53.3	53.7	56.1	60.7	55.0	58.7	51.0	52.0	51.0	54.7	54.7
104	IN 8902	54.0	54.0	51.3	58.0	54.3	58.7	55.7	57.0	56.0	59.0	57.3	62.3	57.0	59.7	56.0	71.0	56.7	55.0	59.7	55.7	55.0	54.3	51.0	49.7	54.7	53.4	56.4
105	IN 8602	48.0	54.0	52.3	58.0	53.1	56.3	54.7	57.3	56.0	54.5	55.8	60.0	53.3	57.7	55.3	66.0	54.3	53.7	57.2	63.0	55.7	57.7	54.7	50.7	51.0	55.4	55.6

Table No. 1 (Continued)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED																							OV'L			
		ZN 2					ZN 3					ZN 4					ZN 5											
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH		JHAB	UDAI	Mean
106	REH2013-6	46.3	55.3	51.5	56.0	52.3	58.3	54.7	59.0	56.0	60.5	57.7	61.0	56.0	58.3	56.7	67.0	55.3	56.0	58.6	53.7	55.7	57.7	53.7	51.3	51.3	53.9	56.0
107	JH 13270	45.3	56.3	52.3	56.0	52.5	54.3	55.3	57.0	57.0	61.5	57.0	61.3	55.0	58.0	58.7	66.0	56.3	57.3	59.0	57.3	55.0	59.0	57.0	50.3	49.7	54.7	56.2
108	BH 412095	47.7	56.0	50.3	52.7	51.6	49.3	53.0	56.3	54.5	54.5	53.5	59.3	52.0	56.0	50.3	67.0	54.3	53.3	56.0	53.3	55.0	59.3	53.3	51.7	50.3	53.8	54.1
109	HKH423	44.7	56.7	47.5	48.3	49.3	53.3	57.7	52.7	51.5	54.5	53.9	58.0	50.3	55.7	51.3	65.0	57.0	52.3	55.7	59.3	55.0	56.3	51.3	50.7	51.0	53.9	53.6
110	Sonam -27	46.3	51.7	52.3	55.0	51.3	55.7	53.7	58.0	54.0	56.5	55.6	60.3	53.3	57.3	53.3	69.0	53.7	56.7	57.7	59.3	56.3	57.0	53.0	51.0	52.3	54.8	55.3
111	REH2013-2	47.7	55.3	52.3	60.3	53.9	58.7	55.7	58.0	58.0	58.0	57.7	60.3	58.0	58.3	57.7	66.0	56.3	56.3	59.0	52.7	55.3	54.7	51.7	50.3	51.3	52.7	56.0
112	JKMH 4023	44.7	54.7	52.5	55.3	51.8	60.3	54.7	58.3	55.5	59.5	57.7	62.0	58.3	58.0	56.3	66.0	55.7	57.0	59.0	57.3	54.3	56.3	56.7	50.7	56.3	55.3	56.4
113	AH 7005	48.0	59.7	52.8	57.3	54.4	63.3	54.7	58.3	57.5	59.0	58.6	60.3	58.3	57.0	56.7	65.0	56.0	54.7	58.3	58.3	55.0	58.3	55.3	50.3	57.3	55.8	57.0
114	CSM-1	46.3	53.7	49.5	54.0	50.9	61.3	56.7	56.7	57.0	58.0	57.9	58.3	52.7	56.7	53.0	63.0	54.3	53.3	55.9	58.0	55.0	57.7	53.7	50.7	51.7	54.4	55.1
115	CSM-2	45.3	56.0	50.3	55.3	51.7	58.7	54.7	57.3	52.0	56.0	55.7	59.3	53.0	58.3	52.0	60.0	46.3	53.3	54.6	57.7	54.7	57.3	52.0	50.7	51.7	54.0	54.2
CHECKS																												
116	PMH1	47.7	55.7	52.3	54.0	52.4	57.3	55.7	56.3	54.5	58.5	56.5	59.3	52.7	57.3	53.3	66.7	54.3	55.0	57.0	56.3	54.0	57.7	53.3	51.3	53.0	54.3	55.3
117	PMH3	44.7	51.7	52.5	57.0	51.5	59.7	55.0	56.7	57.0	59.0	57.5	61.3	52.7	58.3	55.7	66.0	53.3	55.3	57.5	62.7	53.7	56.0	53.7	51.3	51.0	54.7	55.6
118	BIO-9681	46.3	50.0	47.8	51.0	48.8	51.3	56.0	54.0	53.0	50.5	53.0	57.0	52.0	55.0	51.7	60.0	51.7	49.3	53.8	59.7	55.3	56.7	50.7	50.0	50.0	53.7	52.7
119	SeedTech 2324	47.7	52.7	52.0	55.0	51.8	59.3	55.0	57.3	54.0	58.0	56.7	59.0	52.0	57.3	53.7	69.0	54.3	54.3	57.1	52.7	54.3	56.0	55.3	51.0	51.3	53.4	55.1
120	HM11	44.7	52.7	52.3	56.0	51.4	58.0	55.0	55.7	58.0	61.0	57.5	60.7	57.3	58.3	54.7	66.0	48.7	53.3	57.0	59.3	55.3	58.0	51.0	51.3	52.3	54.6	55.4
	Loc. Mean	51.3	53.8	51.2	54.9	52.8	55.7	54.7	57.0	55.1	57.2	56.0	60.2	54.4	57.6	54.9	65.2	54.9	54.8	57.4	57.4	54.7	57.0	53.8	50.5	52.3	54.3	55.4
	C.D. (5%)	3.49	1.16	1.97	2.41	2.95	2.65	1.22	3.55	2.62	2.92	2.63	1.97	1.11	1.40	1.89	0.54	3.50	2.14	1.60	2.09	2.27	3.99	3.22	1.16	1.22	2.04	1.14
	C.V. (%)	4.22	1.33	2.77	2.73	4.02	2.96	1.38	3.88	2.40	2.58	3.77	2.04	1.27	1.52	2.14	0.51	3.96	2.43	2.66	2.27	2.57	4.36	3.73	1.42	1.45	3.31	3.48
	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	0.60	0.91	0.00	0.00	0.00	0.09	0.00

Table No. 1 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING																							OV'L				
		ZN 2					ZN 3					ZN 4					ZN 5												
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH		JHAB	UDAI	Mean	Mean
1	GPS -03	58.0	54.3	51.8	57.0	55.3	55.7	56.0	58.3	59.0	65.0	58.8	61.7	60.0	60.0	57.3	67.0	59.0	59.0	60.6	58.0	57.3	54.7	57.0	54.3	55.7	56.2	58.0	
2	DMRH1416	57.7	55.7	53.3	59.7	56.6	57.3	59.3	58.7	58.0	61.0	58.9	62.0	56.3	59.7	56.0	68.0	58.7	58.7	59.9	60.3	57.7	59.3	52.0	53.7	50.7	55.6	57.9	
3	HT 51412607	56.3	56.0	52.5	57.7	55.6	61.7	60.3	59.3	58.5	62.5	60.5	62.0	57.0	60.0	58.7	67.0	59.3	58.7	60.4	59.0	57.0	60.3	57.0	51.7	53.0	56.3	58.4	
4	GPS -02	54.7	53.7	51.8	55.7	53.9	56.3	58.0	58.7	59.5	62.0	58.9	61.0	59.0	60.3	57.7	67.0	58.3	57.7	60.1	61.3	58.3	55.7	55.0	53.0	51.3	55.8	57.5	
5	SYN417750	55.0	56.0	49.5	53.7	53.5	62.7	57.3	53.7	55.0	60.5	57.8	56.3	54.0	56.3	54.7	65.0	53.7	52.3	56.0	58.3	57.0	56.3	51.0	54.3	49.0	54.3	55.5	
6	DMRH1415	55.3	57.0	52.8	55.0	55.0	62.3	55.7	58.3	61.0	62.5	60.0	60.7	54.7	59.3	54.7	61.0	61.3	55.3	58.1	61.7	56.3	56.7	60.7	54.7	53.7	57.3	57.8	
7	GH-110204	57.7	51.0	48.0	55.3	53.0	52.3	54.7	53.3	60.0	51.5	54.4	57.7	48.7	54.3	53.7	65.0	54.3	52.3	55.1	62.7	57.7	56.0	51.0	53.3	51.0	55.3	54.6	
8	KH-1408	57.3	58.0	54.5	62.3	58.0	60.3	58.0	62.0	59.0	64.5	60.8	64.0	58.3	63.3	58.0	68.0	59.0	59.3	61.4	60.0	57.7	61.0	55.0	54.0	61.3	58.2	59.8	
9	NMH-1247	56.7	55.7	51.8	56.7	55.2	55.3	57.7	58.0	58.5	61.0	58.1	60.0	58.3	56.7	56.3	67.0	56.7	57.0	58.9	60.3	58.0	56.7	54.3	53.7	51.3	55.7	57.2	
10	HKH422	55.0	57.3	53.3	57.3	55.7	57.0	57.0	58.7	58.5	61.5	58.5	59.7	54.3	59.3	55.7	68.0	57.7	55.7	58.6	61.3	57.7	59.3	52.0	54.3	52.7	56.2	57.4	
11	VEH 14-1	53.7	58.3	52.3	57.7	55.5	62.7	55.3	60.3	56.0	66.0	60.1	61.3	56.0	59.3	58.0	62.0	57.7	58.0	58.9	61.0	57.0	58.0	56.3	52.7	58.3	57.2	58.1	
12	PM 14102L	53.3	56.0	53.3	62.7	56.3	63.7	57.3	61.0	61.0	64.5	61.5	61.3	57.7	61.0	56.3	65.0	58.3	56.7	59.5	62.0	58.0	58.7	58.0	55.0	54.7	57.7	58.9	
13	Gin 01	54.0	58.3	53.0	59.0	56.1	62.3	57.3	61.0	60.0	64.5	61.0	63.0	60.0	62.0	59.0	68.0	61.0	61.7	62.1	63.0	58.7	57.7	59.0	52.0	56.3	57.8	59.6	
14	JH 13023	55.0	58.0	52.3	61.0	56.6	58.7	59.0	59.0	57.5	61.5	59.1	61.0	58.7	59.7	57.7	67.0	57.3	58.7	60.0	61.7	57.7	58.3	55.0	53.7	53.0	56.6	58.2	
15	115-08-01	56.3	58.3	51.8	60.3	56.7	61.0	57.0	60.0	58.5	63.5	60.0	59.3	57.3	58.3	59.0	67.0	57.3	56.3	59.2	61.3	57.0	59.7	51.0	54.3	53.0	56.1	58.1	
16	KF-110	56.0	53.7	49.8	55.3	53.7	54.7	57.7	58.0	59.5	61.0	58.2	58.0	54.3	57.7	54.7	65.0	56.7	58.3	57.8	60.7	58.0	57.0	51.0	54.3	51.7	55.4	56.5	
17	PM 14106L	57.3	55.3	53.0	57.7	55.8	57.3	55.7	60.0	61.0	63.0	59.4	60.3	55.3	59.3	55.0	65.0	56.3	56.0	58.2	62.0	58.3	56.7	55.0	54.7	56.7	57.2	57.8	
18	PM 14105L	58.0	57.0	54.5	59.7	57.3	62.3	55.7	59.0	57.0	59.5	58.7	61.0	55.7	58.0	59.0	64.0	55.0	55.0	58.2	56.3	57.7	57.0	55.0	52.3	52.7	55.2	57.3	
19	Bio-069	57.7	57.3	54.3	61.7	57.7	56.3	58.7	58.3	59.5	64.5	59.5	62.3	57.3	60.3	57.7	67.0	59.0	60.7	60.6	60.3	58.0	59.7	57.0	51.3	54.3	56.8	58.8	
20	PMSY -3	53.7	55.7	50.0	56.7	54.0	54.3	59.0	54.7	57.0	57.5	56.5	59.3	53.3	57.0	52.7	63.0	53.7	56.0	56.4	57.0	58.0	59.7	57.0	51.0	54.7	52.3	55.0	55.6
21	NT 8441	56.0	57.7	52.0	59.7	56.3	60.3	58.7	58.7	57.5	63.5	59.7	62.7	59.7	61.7	58.0	68.0	59.0	59.3	61.2	59.0	57.3	57.7	59.3	53.7	53.3	56.7	58.8	
22	Proline-2404	54.0	56.7	53.3	59.0	55.7	52.7	59.3	59.0	58.5	62.5	58.4	62.0	56.7	59.0	57.0	68.0	57.7	56.7	59.6	62.0	57.0	59.3	56.0	53.3	52.7	56.7	57.8	
23	siri -4555	53.7	55.7	52.3	56.3	54.5	57.0	59.0	62.0	60.0	63.0	60.2	62.3	55.0	60.3	61.0	67.0	58.3	58.0	60.3	66.0	56.7	59.0	55.0	54.7	54.0	57.6	58.5	
24	JKMH 4242	56.0	50.0	48.8	54.3	52.3	55.0	59.0	56.3	57.0	58.0	57.1	56.0	54.0	54.3	52.3	60.0	54.3	53.3	54.9	62.3	57.0	59.0	55.0	52.7	52.0	56.3	55.3	
25	GOLD 1166	57.0	53.7	52.3	55.7	54.6	56.3	57.0	57.3	59.0	62.0	58.3	60.3	57.3	57.7	55.0	65.0	56.7	55.3	58.2	55.3	57.0	60.0	57.0	53.3	54.7	56.2	57.0	
26	VNR 4325	56.0	57.3	52.0	57.3	55.7	56.3	58.0	59.3	57.5	61.0	58.4	61.3	57.7	58.3	55.3	68.0	57.3	56.0	59.1	65.3	58.0	59.0	56.0	53.3	56.0	57.9	58.0	
27	CMH12-671	57.0	62.0	53.0	58.0	57.5	61.3	57.7	59.0	60.0	60.5	59.7	62.3	58.3	59.7	56.7	63.0	58.3	56.7	59.3	60.7	57.0	57.0	57.0	53.7	61.7	57.8	58.7	
28	HT 51412616	57.7	53.3	52.8	58.0	55.4	58.3	57.7	59.0	57.5	63.0	59.1	62.0	58.3	60.7	61.0	66.0	55.7	58.0	60.2	62.3	56.3	59.3	55.0	53.7	54.0	56.8	58.2	
29	CMH10-555	52.0	57.0	53.0	58.0	55.0	60.7	57.7	58.7	57.0	59.5	58.7	62.3	57.7	61.3	57.7	69.0	58.0	58.3	60.6	57.3	57.7	58.7	58.7	54.7	51.7	56.4	58.0	
30	CMH12-663	50.0	58.0	52.8	63.0	55.9	63.3	57.0	60.0	57.5	66.0	60.8	62.3	59.7	62.7	58.7	69.0	59.7	62.0	62.0	63.3	57.7	58.0	58.3	54.3	55.0	57.8	59.5	
31	DKC9125	51.7	58.7	52.5	55.7	54.6	60.7	59.7	60.3	57.0	65.0	60.5	62.3	59.7	61.3	61.0	61.0	60.0	59.0	60.6	61.0	58.7	61.0	59.7	53.7	54.3	58.1	58.8	
32	KMH-3981	50.0	60.7	53.8	57.7	55.5	67.3	57.0	63.3	60.0	64.5	62.4	63.0	59.0	61.7	60.0	66.0	58.0	60.0	61.1	56.7	56.3	59.0	57.3	53.3	58.0	56.8	59.2	
33	DMH-192	52.3	57.0	51.8	55.7	54.2	59.3	60.3	58.7	60.0	64.0	60.5	59.3	54.7	59.3	55.7	65.0	59.0	57.3	58.6	56.3	57.7	60.7	55.0	53.7	52.7	56.0	57.5	
34	DMRH1413	55.7	57.0	53.3	62.7	57.1	-	58.3	66.7	61.5	67.5	63.5	64.7	62.3	65.0	65.7	61.0	61.3	64.0	63.4	61.7	56.0	58.3	61.7	53.3	57.0	58.0	60.7	
35	K-25 Gold	57.7	51.3	50.5	56.3	54.0	53.7	58.7	59.3	57.0	63.5	58.4	60.3	54.0	57.7	55.3	67.0	55.0	56.0	57.9	64.0	56.7	58.3	53.0	54.0	55.7	56.9	57.0	

Table No. 1 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING																							OV'L			
		ZN 2					ZN 3					ZN 4					ZN 5											
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH		JHAB	UDAI	Mean
36	IN 8569	58.7	58.7	52.5	57.3	56.8	63.7	58.3	59.7	59.0	63.0	60.7	62.0	60.0	60.3	60.0	70.0	59.0	58.7	61.4	62.7	57.7	58.0	55.0	52.7	55.0	56.8	59.2
37	GK-3118	55.0	56.3	52.3	59.3	55.7	63.3	59.0	58.7	56.0	58.5	59.1	61.0	58.3	57.3	56.3	62.0	56.0	56.7	58.2	60.0	58.3	60.3	59.3	53.3	55.3	57.8	57.9
38	DMRH1409	55.0	54.3	52.5	57.7	54.9	53.3	57.0	59.7	59.5	56.5	57.2	63.3	58.0	60.3	58.3	65.0	60.0	59.3	60.6	60.3	58.7	57.3	57.3	53.3	57.0	57.3	57.9
39	VNR 31862	54.3	56.0	51.0	56.3	54.4	54.7	58.0	58.3	57.0	57.0	57.0	61.0	58.3	58.7	58.0	67.0	59.0	57.0	59.9	62.3	58.7	57.0	57.3	52.0	53.0	56.7	57.4
40	MAH-957	52.3	53.3	50.8	56.0	53.1	52.7	58.0	57.3	60.0	59.5	57.5	58.7	54.3	56.0	51.7	67.0	55.0	54.3	56.7	59.0	58.3	59.0	51.0	53.3	53.3	55.7	56.0
41	DMH-7721	54.0	55.3	52.5	55.3	54.3	59.3	57.0	56.7	62.0	60.0	59.0	60.0	55.7	57.7	56.0	65.0	55.3	56.0	58.0	60.7	58.0	58.0	53.7	54.0	53.7	56.3	57.1
42	NT 8711	57.3	57.7	53.0	60.7	57.2	60.3	59.0	59.0	62.0	61.5	60.4	63.0	58.7	62.7	56.0	72.0	57.3	59.0	61.2	65.0	58.3	55.3	56.0	52.7	53.0	56.7	59.1
43	JH 13249	58.0	58.3	52.3	56.7	56.3	53.3	57.7	61.3	60.5	62.5	59.1	61.7	57.7	60.7	57.3	67.0	56.3	59.7	60.0	61.7	59.0	57.7	58.0	53.0	54.7	57.3	58.4
44	SAMH-225	54.3	55.7	52.0	57.0	54.8	58.7	56.7	58.3	60.0	61.5	59.0	62.0	57.7	59.7	57.7	66.0	56.0	58.0	59.6	59.0	58.3	59.0	57.3	54.3	54.3	57.1	57.9
45	JH 13041	53.3	57.7	52.8	62.0	56.4	58.3	57.0	59.0	60.0	68.0	60.5	60.3	59.0	59.3	57.0	65.0	55.0	58.0	59.1	64.0	58.0	56.7	54.0	54.7	54.7	57.0	58.4
46	JH 12063	57.0	57.7	53.5	61.3	57.4	62.7	57.3	61.0	58.5	63.5	60.6	63.0	59.0	62.0	59.0	72.0	58.0	61.3	62.0	60.3	57.0	59.7	57.3	54.3	54.7	57.2	59.6
47	JH 13094	57.3	55.0	54.0	61.0	56.8	63.3	57.3	61.7	60.0	64.5	61.4	64.3	61.3	64.3	59.7	66.0	60.0	61.0	62.4	59.3	57.7	57.7	57.0	54.7	61.0	57.9	59.9
48	RMH-726	53.0	54.3	53.3	57.3	54.5	60.3	59.0	59.3	60.5	59.5	59.7	59.7	57.7	58.7	56.7	63.0	55.7	54.7	58.0	61.0	57.7	55.3	53.0	54.3	53.3	55.8	57.1
49	JH 13044	52.7	55.7	53.3	60.7	55.6	58.7	55.0	60.3	60.5	65.0	59.9	63.0	58.3	62.0	59.3	65.0	57.7	59.3	60.7	58.3	57.7	57.3	56.7	55.3	62.3	57.9	58.8
50	PMSW 4	54.7	56.0	50.0	56.7	54.3	55.7	59.3	53.7	58.5	57.5	56.9	61.0	54.3	58.0	53.7	64.0	53.3	52.7	56.7	62.3	57.3	57.3	57.0	52.3	55.0	56.9	56.4
51	PM 14104L	57.0	57.0	54.5	61.0	57.4	62.3	58.7	62.7	57.5	64.5	61.1	60.3	58.7	60.0	59.3	62.0	59.3	59.7	59.9	62.3	58.3	58.7	57.3	53.0	54.3	57.3	59.0
52	CP.555	54.3	59.0	52.5	56.3	55.5	53.7	54.7	59.0	57.5	60.5	57.1	61.3	55.0	59.0	57.3	63.0	58.0	57.3	58.7	60.7	57.3	59.0	53.0	54.7	52.7	56.2	57.1
53	JH 13183	56.7	55.0	52.0	56.0	54.9	52.7	56.7	59.0	58.0	63.5	58.0	62.0	54.3	60.0	58.3	67.0	57.7	60.0	59.9	61.3	61.0	59.0	55.0	53.7	53.7	57.3	57.8
54	DMRH1411	58.0	56.3	53.3	57.0	56.1	56.3	58.0	58.7	58.5	60.5	58.4	60.3	59.3	59.0	56.3	65.0	56.3	57.7	59.1	57.0	55.7	57.7	52.0	54.0	51.3	54.6	57.2
55	JH 12150	56.3	57.7	52.3	59.0	56.3	59.7	60.0	60.0	58.5	63.5	60.3	64.0	59.0	63.0	58.0	67.0	59.3	60.3	61.5	66.3	58.0	57.7	57.0	52.7	55.0	57.8	59.3
56	Gin 02	54.3	58.0	53.0	57.0	55.6	60.7	59.0	60.3	59.0	65.0	60.8	62.7	58.0	60.3	59.7	67.0	58.3	59.0	60.7	59.7	57.7	59.7	57.0	54.3	52.3	56.8	58.7
57	BH 412140	57.7	59.0	53.0	60.0	57.4	60.3	56.7	59.7	59.0	63.5	59.8	60.7	60.0	59.0	58.0	61.7	55.7	58.7	59.1	61.7	58.3	55.7	54.0	53.3	51.0	55.7	58.0
58	NT 6325	56.7	58.3	51.3	56.0	55.6	53.3	55.7	58.0	57.0	60.0	56.8	61.0	58.7	60.3	58.0	67.0	59.3	57.7	60.3	62.7	56.7	57.7	55.0	54.3	57.7	57.3	57.8
59	DMRH1308	55.0	54.0	50.3	55.0	53.6	53.3	54.3	54.0	60.5	56.5	55.7	63.3	55.0	56.7	52.3	72.0	55.3	53.7	58.3	58.0	58.7	57.3	52.0	53.0	54.0	55.5	56.1
60	ADV 1190384	52.0	54.0	52.3	56.0	53.6	64.7	54.3	59.7	60.5	63.0	60.4	62.3	58.3	60.7	58.3	68.0	59.3	60.3	61.0	58.0	57.3	60.7	57.0	53.3	52.7	56.5	58.3
61	HT 51412373	52.7	55.0	51.5	60.0	54.8	60.7	57.3	57.3	60.5	64.5	60.1	61.0	57.0	57.7	57.7	63.0	56.3	57.3	58.6	62.0	58.3	58.3	53.0	52.3	54.7	56.4	57.6
62	SAFAL X-2	57.7	57.3	52.0	57.3	56.1	59.7	59.7	58.7	59.0	61.5	59.7	63.0	60.0	60.3	60.7	72.0	59.0	59.3	62.0	59.7	59.3	60.3	57.3	54.7	53.3	57.4	59.2
63	JH 13197	58.3	58.3	53.5	61.7	58.0	61.0	58.3	61.0	59.5	61.5	60.3	62.0	56.0	60.3	59.0	67.7	59.3	59.3	60.5	61.0	57.7	58.3	57.0	54.7	53.7	57.1	59.1
64	super 6768	55.3	57.3	50.8	56.3	54.9	50.3	57.3	58.0	58.0	60.5	56.8	59.0	53.7	58.0	54.0	65.0	55.0	55.3	57.1	61.0	56.3	60.7	50.0	52.7	51.0	55.3	56.2
65	JH 13278	56.3	52.3	51.0	55.3	53.8	51.7	56.3	56.7	57.5	63.0	57.0	59.3	55.0	58.3	58.0	67.0	55.0	57.7	58.6	58.0	58.0	59.7	52.0	53.7	54.7	56.0	56.7
66	IN 8570	57.7	57.7	52.0	59.0	56.6	61.7	56.0	59.0	58.5	63.0	59.6	62.0	58.7	61.0	57.7	66.0	58.0	59.0	60.3	59.3	58.3	55.3	57.0	53.0	52.0	55.8	58.3
67	GPMH-1111	55.0	58.0	50.5	57.7	55.3	58.3	55.3	57.7	56.5	59.5	57.5	58.0	50.7	57.3	52.7	64.0	53.7	53.7	55.7	61.0	57.7	58.0	51.0	52.7	53.7	55.7	56.0
68	JH 13248	52.0	57.7	54.0	59.0	55.7	55.7	58.7	57.0	58.5	63.5	58.7	60.3	59.7	58.3	59.3	66.0	56.0	59.0	59.8	61.3	57.3	57.0	55.0	54.7	51.7	56.2	57.8
69	SAMH-378	52.7	54.0	49.5	55.3	52.9	56.3	58.7	59.3	57.0	53.5	57.0	60.3	56.7	58.3	52.3	68.0	56.3	56.0	58.3	55.3	57.0	59.0	55.0	53.7	55.0	55.8	56.3
70	KH-2192	57.7	54.3	52.8	54.3	54.8	57.7	58.3	57.0	58.0	61.5	58.5	60.7	56.7	58.0	53.7	64.0	56.7	55.3	57.9	61.3	57.7	57.7	55.0	52.3	54.3	56.4	57.0

Table No. 1 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING																							OV'L			
		ZN 2					ZN 3					ZN 4					ZN 5											
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH		JHAB	UDAI	Mean
71	ADV 0990293	58.3	55.7	52.5	57.0	55.9	59.7	57.0	60.3	58.5	68.0	60.7	62.0	57.0	60.0	60.7	67.0	61.3	60.3	61.2	62.0	57.7	59.3	55.7	53.7	54.0	57.1	59.0
72	JH 13252	57.7	56.3	53.5	61.0	57.1	59.7	56.7	60.0	60.5	61.0	59.6	63.7	60.3	62.7	60.0	60.0	62.0	59.7	61.2	60.7	58.0	58.0	55.0	53.3	53.7	56.4	58.8
73	NMH 1605	58.3	52.7	52.8	59.3	55.8	63.3	57.7	58.7	57.5	67.0	60.8	62.3	59.3	61.7	57.3	65.0	59.7	61.0	60.9	63.0	57.0	56.7	56.7	54.3	52.3	56.7	58.8
74	GPMH-1101	55.3	56.0	50.5	54.0	54.0	64.3	57.7	55.7	57.0	54.0	57.7	59.3	55.3	56.0	52.3	63.0	56.0	55.0	56.7	62.0	58.7	57.0	53.7	52.0	52.0	55.9	56.2
75	PM 14101L	56.3	57.3	53.8	58.7	56.5	60.3	60.3	62.0	59.0	63.5	61.0	62.3	58.3	62.3	58.3	67.0	58.3	59.7	60.9	62.0	57.3	58.7	58.7	53.3	55.0	57.5	59.2
76	CMH12-667	57.7	55.3	51.5	56.0	55.1	54.3	57.0	58.0	56.5	62.5	57.7	60.7	55.0	58.0	55.3	61.0	57.0	55.7	57.5	57.7	57.0	58.0	53.0	53.0	55.0	55.6	56.6
77	BH 412141	55.0	58.0	53.5	58.3	56.2	57.7	56.7	58.7	60.5	61.0	58.9	61.7	57.7	59.3	55.0	67.0	58.7	57.3	59.5	63.0	57.7	59.7	55.0	52.3	52.7	56.7	58.0
78	Srikar 3033	52.0	52.3	51.0	56.0	52.8	56.3	58.7	58.7	58.0	56.5	57.6	58.3	55.0	57.3	55.0	68.0	57.0	55.7	58.0	54.0	58.7	57.0	55.0	53.0	52.0	54.9	56.2
79	JH 13282	57.7	59.3	53.5	57.7	57.0	58.7	60.3	60.0	59.0	64.0	60.4	64.3	59.3	62.0	59.0	70.0	61.0	59.0	62.1	66.3	57.0	58.7	59.0	52.7	54.0	57.9	59.7
80	IN 8903	58.3	59.0	51.5	62.0	57.7	59.7	56.3	59.3	59.0	63.5	59.6	62.0	60.0	61.0	57.0	68.0	58.3	58.3	60.7	59.7	57.3	58.7	54.0	53.7	55.3	56.4	58.7
81	GYH-0652	57.7	49.7	47.8	56.3	52.9	51.0	57.7	56.0	57.0	55.0	55.3	56.7	48.3	54.0	52.7	60.0	52.7	52.0	53.8	59.7	59.0	58.3	55.3	51.3	51.0	55.8	54.5
82	NMH 1008	58.3	56.7	52.3	56.7	56.0	55.7	60.0	62.3	57.5	67.0	60.5	61.3	58.0	60.0	57.0	68.0	58.7	58.7	60.2	62.0	63.3	58.0	53.0	52.0	54.0	57.1	58.7
83	GK-3124	55.3	52.0	52.5	57.0	54.2	58.3	57.0	59.3	60.0	64.0	59.7	61.3	57.3	59.7	59.0	69.0	57.7	58.3	60.3	62.0	58.7	58.3	58.7	54.3	52.7	57.4	58.3
84	ADV 0990296	56.3	56.0	52.5	59.0	56.0	62.7	59.0	59.0	58.5	64.5	60.7	63.0	60.3	61.0	59.0	66.0	59.0	60.3	61.2	65.7	58.3	57.3	59.0	53.3	57.0	58.4	59.4
85	CMH11-618	57.7	57.7	51.5	56.3	55.8	59.0	58.3	56.7	56.0	60.5	58.1	61.0	54.7	58.7	54.3	70.0	57.7	55.0	58.8	63.7	57.7	57.0	55.0	51.7	55.0	56.7	57.5
86	REH2013-5	55.0	56.3	52.5	57.3	55.3	60.3	57.7	59.3	59.5	64.5	60.3	62.3	55.0	60.0	58.7	67.0	57.0	59.0	59.9	61.0	60.0	58.3	52.0	54.3	53.7	56.6	58.2
87	DAS-MH-106	52.0	52.3	50.8	57.0	53.0	52.3	58.7	56.7	57.5	57.0	56.4	61.0	55.0	60.3	56.0	67.0	58.3	55.0	59.0	59.3	57.3	59.0	54.0	52.3	58.3	56.7	56.7
88	JH 13244	55.3	58.7	53.0	58.0	56.3	55.3	56.3	60.0	58.5	62.5	58.5	61.3	55.3	61.3	58.3	66.0	59.3	60.0	60.2	61.7	56.0	58.0	59.3	53.7	54.0	57.1	58.3
89	AMH-3436	56.3	55.7	51.8	56.7	55.1	58.3	58.3	60.0	57.5	63.5	59.5	62.0	58.3	61.0	58.7	66.0	57.7	61.3	60.7	59.0	57.3	58.0	59.3	54.0	53.0	56.8	58.4
90	IN 8603	57.7	58.0	53.5	61.3	57.6	54.3	57.0	59.0	58.5	60.0	57.8	62.7	58.3	61.3	58.7	68.0	59.7	58.7	61.0	62.0	57.7	59.0	57.0	53.7	54.0	57.2	58.6
91	JH 13230	55.0	58.0	53.0	58.0	56.0	57.3	57.3	59.0	61.0	63.0	59.5	62.7	59.0	60.7	60.3	68.0	59.7	61.7	61.7	60.7	59.0	59.0	57.0	52.7	56.0	57.4	59.0
92	DAS-MH-107	52.0	56.7	51.5	56.7	54.2	59.3	54.3	58.3	56.0	62.0	58.0	62.0	58.0	59.7	56.7	66.0	55.3	57.3	59.3	65.3	57.3	57.3	53.0	53.0	52.0	56.3	57.3
93	IAHM 2013-12	52.0	55.7	51.0	54.7	53.3	56.7	58.3	58.7	56.0	56.5	57.2	59.7	55.0	58.7	53.7	66.0	53.7	55.3	57.4	60.7	58.3	59.7	56.0	53.7	54.0	57.1	56.5
94	JH 12010	52.7	56.0	53.8	64.0	56.6	57.7	59.3	58.0	59.5	64.5	59.8	63.7	56.0	61.0	59.3	67.0	59.0	61.0	61.0	62.0	58.7	58.3	59.0	54.0	53.7	57.6	59.0
95	BH 412131	57.7	52.0	51.5	57.0	54.5	56.0	57.7	55.0	58.0	61.5	57.6	57.7	54.7	56.3	54.3	62.0	56.0	57.0	56.9	56.7	59.0	59.0	53.0	52.7	52.0	55.4	56.2
96	Super 1177	58.3	51.7	51.0	56.7	54.4	53.7	55.3	57.7	57.5	59.5	56.7	59.7	53.0	58.0	56.7	69.0	55.0	55.7	58.1	57.0	58.7	59.0	54.7	54.7	52.0	56.0	56.6
97	Super 777	57.7	58.0	52.5	57.0	56.3	57.7	59.0	60.0	56.5	62.0	59.0	61.7	58.0	59.7	55.3	65.0	60.0	56.7	59.5	60.3	58.0	57.3	58.0	53.3	59.0	57.7	58.3
98	GH-110145	58.3	53.7	49.3	54.0	53.8	53.7	57.3	53.3	57.0	65.0	57.3	57.0	49.0	54.7	52.7	64.0	54.3	52.0	54.8	61.7	56.7	59.3	52.0	53.7	52.0	55.9	55.5
99	JH 13045	52.0	52.0	52.0	59.0	53.8	53.3	57.0	60.7	56.0	63.5	58.1	63.0	59.3	59.7	57.0	72.0	58.0	60.7	61.4	61.7	58.7	59.3	55.0	52.7	55.3	57.1	58.1
100	JH 13037	52.0	58.3	54.0	59.0	55.8	59.7	59.0	59.7	60.0	68.0	61.3	63.0	57.7	61.0	57.7	67.0	59.3	59.3	60.7	61.7	57.3	59.3	58.3	53.0	61.0	58.4	59.3
101	MAH-974	52.7	56.7	52.8	58.3	55.1	54.3	57.3	60.0	55.0	61.0	57.5	58.3	53.3	56.3	53.0	63.0	53.7	53.7	55.9	65.7	58.0	58.0	55.0	52.7	52.7	57.0	56.4
102	BH 412096	57.7	58.3	52.3	60.7	57.2	58.3	57.0	60.0	58.0	64.0	59.5	63.0	61.0	60.7	58.7	67.0	59.7	55.0	60.7	61.0	57.0	57.0	54.0	54.0	54.3	56.2	58.6
103	PRMH-189	58.3	54.0	50.3	56.7	54.8	51.7	58.7	58.3	58.0	61.5	57.6	58.7	54.0	56.3	54.7	66.3	54.3	55.7	57.1	64.0	58.0	59.3	52.0	54.7	52.7	56.8	56.7
104	IN 8902	57.7	56.0	52.3	61.0	56.7	60.7	58.3	59.0	59.5	63.0	60.1	63.0	59.3	62.3	58.3	72.0	58.7	58.0	61.7	60.0	58.0	55.7	52.0	52.3	56.3	55.7	58.8
105	IN 8602	51.3	56.0	53.3	61.0	55.4	58.3	58.3	59.3	59.0	59.0	58.8	61.0	55.3	59.3	57.0	67.0	57.0	56.3	59.0	66.3	59.0	59.0	57.3	53.3	53.0	58.0	58.0

Table No. 1 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING																										
		ZN 2					ZN 3					ZN 4					ZN 5					OV'L						
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean	Mean
106	REH2013-6	50.0	57.3	52.5	59.0	54.7	60.3	57.0	63.0	59.5	65.0	61.0	64.0	58.0	61.3	58.3	68.0	57.3	58.7	60.8	57.3	58.7	59.0	54.0	54.3	52.7	56.0	58.4
107	JH 13270	48.3	58.3	53.3	59.3	54.8	56.3	58.7	59.0	60.5	66.0	60.1	62.0	57.7	60.3	60.3	67.0	59.3	60.0	61.0	61.3	58.3	61.0	58.0	53.3	51.3	57.2	58.6
108	BH 412095	51.3	58.0	50.8	55.7	53.9	51.3	56.0	59.3	57.5	58.5	56.5	59.7	54.7	57.7	52.3	68.0	56.7	55.3	57.8	57.3	58.0	60.3	54.3	54.3	52.3	56.1	56.3
109	HKH423	47.7	58.7	48.0	52.0	51.6	55.3	60.3	54.3	55.5	59.0	56.9	58.0	52.7	57.0	53.0	66.0	59.0	54.7	57.2	62.7	58.0	58.0	51.7	54.3	53.0	56.3	55.9
110	Sonam -27	49.3	53.7	53.3	58.0	53.6	57.7	56.3	60.0	57.5	61.5	58.6	61.7	55.3	59.3	55.3	70.0	57.3	60.0	59.9	63.0	59.3	59.0	55.0	54.3	54.0	57.4	57.8
111	REH2013-2	50.7	58.3	52.8	63.3	56.3	61.3	58.3	60.0	60.5	64.5	60.9	61.3	60.7	60.3	59.7	67.0	58.3	59.0	60.9	56.3	58.3	55.3	53.7	52.7	54.0	55.1	58.5
112	JKMH 4023	47.0	57.7	53.5	58.3	54.1	62.3	58.3	60.3	58.5	64.5	60.8	62.3	60.7	59.7	58.7	67.0	58.3	59.7	60.9	62.0	57.3	57.0	58.3	53.7	58.0	57.7	58.8
113	AH 7005	84.3	61.7	53.8	60.3	65.0	65.3	58.0	59.3	61.0	64.0	61.5	63.0	61.7	61.0	58.7	66.0	59.0	57.7	61.0	61.7	58.0	59.0	58.0	53.7	58.7	58.2	61.1
114	CSM-1	82.0	55.7	51.5	58.3	61.9	63.3	60.3	58.7	61.0	62.5	61.2	59.0	54.7	58.7	54.7	65.0	55.3	55.3	57.5	61.0	58.0	58.7	54.0	53.0	53.7	56.4	58.8
115	CSM-2	48.3	58.0	51.3	58.3	54.0	60.7	57.7	59.3	55.0	61.0	58.7	61.7	55.3	60.0	54.3	61.0	54.7	56.0	57.6	61.3	57.7	59.0	53.0	53.7	53.0	56.3	56.8
	CHECKS																											
116	PMH1	51.3	57.7	53.3	57.7	55.0	59.3	59.3	58.3	58.0	64.0	59.8	60.3	55.3	59.3	55.7	67.7	56.0	58.3	59.0	60.3	57.0	59.7	55.7	54.0	54.3	56.8	57.8
117	PMH3	47.7	53.7	53.5	59.7	53.6	61.7	58.3	58.7	60.5	65.0	60.8	63.7	55.3	61.7	58.0	67.0	58.3	58.3	60.3	65.3	56.7	57.3	59.3	54.0	52.7	57.6	58.5
118	BIO-9681	49.3	52.0	48.3	54.0	50.9	53.3	59.0	56.0	56.5	55.5	56.1	57.7	54.7	55.7	53.0	63.0	53.3	52.3	55.7	62.7	58.3	58.0	51.0	52.7	52.0	55.8	54.9
119	SeedTech 2324	50.7	55.7	53.0	58.0	54.3	61.3	57.7	59.3	57.5	63.0	59.8	60.7	54.3	59.0	55.7	70.0	58.0	57.0	59.2	56.3	57.3	57.7	56.0	53.3	53.0	55.6	57.5
120	HM11	47.0	55.7	52.8	59.0	53.6	60.0	58.0	58.0	61.0	66.0	60.6	62.7	59.3	62.0	57.7	67.0	58.3	55.7	60.4	63.0	58.0	58.7	53.0	54.7	54.0	56.9	58.2
	Loc. Mean	55.3	56.2	52.1	58.0	55.4	57.7	57.7	58.9	58.6	62.0	59.1	61.2	56.9	59.5	56.9	66.2	57.5	57.6	59.4	60.9	57.8	58.3	55.4	53.5	54.1	56.7	57.9
	C.D. (5%)	6.95	1.16	2.02	2.37	3.78	2.45	1.52	2.75	2.78	2.95	2.70	1.86	0.99	1.95	1.86	0.69	2.97	2.32	1.60	2.00	2.91	4.07	2.31	1.11	1.13	2.12	1.24
	C.V. (%)	7.82	1.28	2.79	2.55	4.91	2.64	1.64	2.90	2.40	2.40	3.68	1.89	1.09	2.04	2.03	0.65	3.21	2.50	2.57	2.05	3.13	4.35	2.59	1.29	1.30	3.29	3.62
	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	0.83	0.85	0.00	0.00	0.00	0.02	0.00

Table No. 1 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK																				Mean		
		ZN 2					ZN 3					ZN 4					ZN 5							
		KANP	KARN	LUDH	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI		GODH	UDAI
1	GPS-03	98.0	86.3	87.8	90.7	87.3	95.7	84.3	98.0	100.0	93.1	102.0	93.3	97.3	112.0	96.7	100.0	100.3	94.3	89.3	88.0	89.0	83.0	88.7
2	DMRH1416	100.0	89.7	88.5	92.7	90.7	97.3	85.7	99.5	92.0	93.0	98.0	92.7	96.0	113.0	97.3	98.7	99.4	99.3	89.0	92.7	85.3	80.3	89.3
3	HT 51412607	99.3	88.0	89.0	92.1	93.7	96.0	85.7	102.5	96.5	94.9	98.0	95.0	97.3	112.0	97.3	100.0	99.9	95.0	89.3	92.3	87.7	82.0	89.3
4	GPS-02	96.7	85.7	86.5	89.6	91.3	96.3	84.3	100.0	91.0	92.6	100.0	91.0	98.0	112.0	93.3	99.7	98.9	87.0	90.3	87.7	87.0	80.3	86.5
5	SYN417750	97.3	88.0	84.5	89.9	87.7	94.0	83.3	99.5	90.5	91.0	95.0	89.0	95.0	110.0	93.7	93.7	96.5	94.3	88.7	91.3	84.0	78.3	87.3
6	DMRH1415	97.3	87.0	88.3	90.9	93.3	94.3	84.7	99.0	97.0	93.7	95.0	92.0	94.3	102.3	97.3	97.0	96.2	96.0	88.3	92.7	87.0	83.3	89.5
7	GH-110204	96.7	85.0	84.0	88.6	85.3	93.0	82.3	98.0	83.0	88.3	90.0	89.0	88.3	110.0	94.0	94.0	94.3	100.7	89.7	86.7	82.7	80.3	88.0
8	KH-1408	98.0	91.0	89.0	92.7	91.3	93.3	87.3	102.0	94.0	93.6	101.3	94.3	98.0	113.0	97.3	101.0	100.8	100.0	89.7	90.7	87.3	89.7	91.5
9	NMH-1247	98.7	89.7	85.3	91.2	87.3	93.0	85.3	102.0	92.0	91.9	98.0	91.7	96.3	112.0	94.0	98.0	98.4	96.3	89.0	91.0	87.3	80.0	88.7
10	HKH422	97.7	87.3	90.0	91.7	87.3	95.3	85.3	101.5	99.5	93.8	95.0	95.3	95.7	113.0	98.0	96.3	99.4	98.3	89.0	90.0	84.3	81.7	88.7
11	VEH 14-1	95.7	91.3	87.0	91.3	94.7	92.3	86.3	101.0	94.5	93.8	96.0	91.0	98.0	103.3	93.3	98.7	96.3	102.0	89.3	90.3	87.0	87.7	91.3
12	PM 14102L	94.7	91.0	87.3	91.0	94.7	94.3	87.7	100.5	100.5	95.5	98.0	96.0	96.3	110.0	97.3	98.0	99.5	100.0	90.7	91.3	90.7	83.3	91.2
13	Gin 01	96.3	88.3	87.8	90.8	93.3	95.7	86.7	98.0	94.0	93.5	102.0	92.3	99.0	113.0	95.3	102.3	100.3	95.3	89.7	90.7	90.0	84.7	90.1
14	JH 13023	96.3	90.0	88.0	91.4	90.7	97.0	85.3	103.5	90.5	93.4	100.0	92.0	98.0	112.0	96.7	100.0	99.7	102.0	89.0	89.3	86.7	81.3	89.7
15	115-08-01	96.3	85.3	89.5	90.4	91.7	94.7	87.7	102.0	98.0	94.8	98.0	94.3	99.7	112.0	97.3	97.3	100.3	95.0	88.0	91.7	84.0	81.7	88.1
16	KF-110	94.7	83.7	83.3	87.2	86.7	95.0	83.3	101.0	92.5	91.7	94.3	87.0	96.0	110.0	94.7	99.0	96.4	93.7	89.7	90.0	82.7	80.3	87.3
17	PM 14106L	98.0	86.3	90.0	91.4	89.7	94.0	87.3	100.5	99.0	94.1	95.0	94.3	95.0	105.0	98.0	97.3	97.5	100.3	89.7	90.0	87.3	84.7	90.4
18	PM 14105L	96.7	87.0	91.3	91.6	91.3	93.0	85.7	103.5	89.0	92.5	98.0	90.7	98.3	105.7	95.3	96.7	97.6	100.0	89.3	88.0	85.0	84.0	89.3
19	Bio-069	95.3	90.3	91.3	92.3	92.7	95.0	85.3	99.0	94.0	93.2	98.0	93.0	97.0	112.0	98.0	102.0	99.6	96.0	89.3	92.3	89.7	81.7	89.8
20	PMSY-3	94.0	87.7	84.5	88.7	86.3	100.0	82.3	98.5	89.5	91.3	95.0	88.3	87.7	104.0	93.3	96.7	93.7	93.3	89.3	89.0	86.3	81.7	87.9
21	NT 8441	96.0	89.7	87.0	90.9	91.3	98.0	85.0	98.5	94.5	93.5	102.0	93.7	97.7	113.0	98.0	100.7	100.9	97.7	88.7	89.0	89.0	82.3	89.3
22	Proline-2404	97.7	89.7	89.5	92.3	87.7	97.0	86.0	102.5	92.5	93.1	98.0	90.7	97.0	113.0	98.0	98.3	99.3	102.3	90.0	95.0	87.3	81.0	91.1
23	siri -4555	96.7	88.7	90.0	91.8	91.3	97.3	87.3	102.0	94.5	94.5	95.7	94.0	99.0	112.0	95.3	99.0	99.2	100.3	88.3	89.7	86.7	83.0	89.6
24	JKMH 4242	95.7	83.0	82.8	87.1	88.3	96.0	82.7	97.5	90.5	91.0	94.7	88.7	87.3	100.7	93.0	95.3	92.9	92.0	89.7	90.3	85.7	80.7	87.7
25	GOLD 1166	95.0	88.7	89.8	91.1	90.7	94.0	83.3	99.5	101.0	93.7	97.3	94.3	95.0	110.0	99.7	96.0	99.3	91.0	89.0	91.3	89.0	84.3	88.9
26	VNR 4325	94.7	89.3	86.8	90.3	88.3	95.3	85.3	98.5	92.5	92.0	98.0	91.7	95.3	113.0	94.7	97.3	98.5	101.3	89.3	91.7	87.7	84.0	90.8
27	CMH12-671	94.7	91.0	87.8	91.1	93.7	94.0	85.0	104.5	89.5	93.3	101.3	92.3	96.7	103.7	94.7	97.0	97.7	100.7	88.7	88.0	87.7	91.7	91.4
28	HT 51412616	95.0	84.3	87.3	88.9	90.3	94.0	86.7	98.5	93.0	92.5	100.0	92.7	99.3	111.0	94.0	99.3	99.4	95.7	88.7	91.0	87.0	84.0	89.3
29	CMH10-555	97.0	90.0	87.0	91.3	91.3	95.0	85.3	98.5	92.0	92.4	100.0	93.0	97.3	114.0	96.7	98.3	100.2	92.0	89.7	90.7	89.7	80.0	88.4
30	CMH12-663	98.7	90.0	87.5	92.1	94.7	96.0	86.7	99.0	97.5	94.8	102.0	94.3	98.0	114.0	95.3	102.7	100.7	98.3	88.7	90.0	89.7	85.0	90.3
31	DKC9125	97.7	91.7	90.5	93.3	90.3	97.3	86.7	101.0	97.5	94.6	102.0	92.0	100.3	102.0	97.3	100.0	98.7	103.7	89.3	93.3	88.0	81.3	91.1
32	KMH-3981	98.0	88.7	88.8	91.8	92.7	94.0	86.3	104.5	98.0	95.1	101.7	96.0	99.7	110.0	98.0	101.0	101.1	91.3	87.7	91.7	88.3	88.3	89.5
33	DMH-192	95.7	90.0	89.3	91.6	88.7	96.7	87.3	100.0	99.0	94.3	95.0	94.0	95.7	110.0	97.0	99.0	98.3	97.0	89.7	92.7	86.7	84.0	90.0
34	DMRH1413	99.0	90.0	86.3	91.8	-	95.3	88.7	103.0	99.0	96.5	102.0	95.0	105.0	102.0	98.0	104.0	100.4	94.0	87.0	93.0	93.7	88.7	91.3

Table No. 1 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK																				Mean		
		ZN 2					ZN 3					ZN 4					ZN 5							
		KANP	KARN	LUDH	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI		GODH	UDAI
35	K-25 Gold	97.7	82.3	85.0	88.3	90.3	96.0	86.3	99.5	95.0	93.4	96.3	90.7	92.7	112.0	94.7	97.7	97.3	100.3	87.3	92.3	85.7	84.0	89.9
36	IN 8569	97.7	86.7	88.3	90.9	94.7	97.3	86.7	101.0	94.5	94.8	102.0	93.7	99.3	115.0	96.7	98.7	101.3	90.0	90.0	89.0	87.0	83.7	87.9
37	GK-3118	97.3	86.3	90.5	91.4	93.7	96.0	84.7	105.0	94.5	94.8	101.3	92.7	93.0	103.3	98.7	97.3	97.8	102.7	89.0	90.7	87.3	83.3	90.6
38	DMRH1409	97.0	89.3	89.5	91.9	85.7	93.7	86.3	102.0	91.0	91.7	98.0	92.0	97.7	105.3	101.0	100.3	98.8	94.0	89.7	92.0	88.0	84.0	89.5
39	VNR 31862	96.7	86.0	85.3	89.3	87.3	96.7	84.3	99.0	86.5	90.8	99.7	88.0	96.7	112.0	97.3	98.7	98.7	93.0	89.7	90.7	89.0	81.7	88.8
40	MAH-957	98.0	84.3	87.0	89.8	86.7	95.0	84.0	100.5	96.0	92.4	94.7	90.0	88.3	112.0	92.7	94.3	95.5	95.3	89.3	89.3	85.0	84.7	88.7
41	DMH-7721	98.0	86.3	88.0	90.8	87.0	94.0	83.7	103.0	89.0	91.3	98.0	90.3	93.7	109.7	95.3	97.3	97.4	101.0	88.0	90.7	86.0	84.3	90.0
42	NT 8711	98.3	88.7	91.0	92.7	89.7	94.3	85.7	101.5	96.0	93.4	102.0	89.7	97.0	110.3	98.3	100.0	99.5	98.3	90.0	87.0	88.3	81.7	89.1
43	JH 13249	97.3	91.3	89.3	92.6	86.7	93.0	86.0	100.0	98.0	92.7	98.0	94.0	98.7	112.0	96.0	100.0	99.7	99.0	90.0	91.0	89.3	82.7	90.4
44	SAMH-225	97.3	87.7	87.3	90.8	88.3	93.0	84.7	101.0	91.5	91.7	100.0	91.7	97.0	111.0	95.3	98.3	99.0	91.3	90.0	89.7	88.7	83.7	88.7
45	JH 13041	96.0	85.7	88.0	89.9	91.3	95.0	85.0	99.0	100.5	94.2	102.0	92.3	96.3	110.0	96.0	98.3	99.3	98.3	90.3	88.3	86.3	83.3	89.3
46	JH 12063	97.3	90.7	89.8	92.6	93.7	94.0	86.3	100.0	94.0	93.6	102.0	93.0	98.0	113.7	96.7	102.0	100.7	102.0	89.3	91.0	88.7	83.3	90.9
47	JH 13094	99.7	90.0	87.0	92.2	95.7	94.0	86.7	98.0	95.0	93.9	102.0	93.0	99.7	111.0	93.0	100.7	99.7	100.3	89.3	90.0	89.0	89.0	91.5
48	RMH-726	97.0	87.3	88.0	90.8	91.3	95.0	86.3	102.0	93.5	93.6	98.0	92.3	96.7	103.0	96.0	94.3	97.2	102.3	89.0	86.7	87.0	81.7	89.3
49	JH 13044	98.0	87.7	88.5	91.4	90.7	93.0	86.3	98.0	100.0	93.6	100.0	93.7	99.3	110.0	95.7	101.3	99.7	95.3	89.0	89.3	89.0	91.0	90.7
50	PMSW 4	96.7	90.0	84.8	90.5	87.7	95.3	82.0	97.5	91.0	90.7	95.0	88.3	88.3	105.7	93.7	94.0	94.2	96.3	88.7	87.7	89.0	84.0	89.1
51	PM 14104L	98.0	90.0	89.3	92.4	94.7	97.3	86.7	101.5	99.0	95.8	102.0	94.7	100.0	103.0	96.0	100.3	99.1	100.3	89.3	91.0	88.0	84.0	90.5
52	CP.555	98.0	90.0	86.8	91.6	86.7	93.0	84.0	98.0	94.0	91.1	95.3	94.3	96.7	103.7	96.0	97.7	97.2	97.0	88.7	91.0	85.3	81.7	88.7
53	JH 13183	97.0	90.0	87.3	91.4	85.7	95.7	85.7	98.0	100.0	93.0	95.0	92.7	97.3	112.0	96.7	100.0	98.7	98.0	89.0	91.0	88.0	82.0	89.6
54	DMRH1411	98.3	89.3	87.5	91.7	88.7	96.7	84.7	102.5	95.0	93.5	100.7	94.7	95.7	110.0	96.3	98.3	99.5	92.3	87.3	88.3	86.0	80.7	86.9
55	JH 12150	100.3	91.7	86.8	92.9	89.7	95.7	86.7	99.5	94.5	93.2	100.0	96.0	98.3	111.3	96.7	100.3	100.5	102.0	89.0	89.7	90.0	82.3	90.6
56	Gin 02	98.3	90.0	89.8	92.7	89.3	94.0	86.3	100.0	98.5	93.6	100.0	90.3	99.0	112.0	97.3	99.3	99.7	97.3	88.7	91.3	88.7	80.7	89.3
57	BH 412140	96.7	91.0	89.0	92.2	93.7	94.7	87.0	100.5	99.0	95.0	102.0	92.3	97.3	102.7	96.0	100.0	98.1	101.0	89.3	89.7	85.3	80.3	89.1
58	NT 6325	97.0	91.3	85.5	91.3	85.7	94.3	84.7	98.0	91.5	90.8	100.0	93.7	97.3	112.0	96.7	99.7	99.9	102.0	88.3	89.3	88.7	85.7	90.8
59	DMRH1308	96.3	88.0	85.3	89.9	87.3	93.0	82.0	100.5	89.5	90.5	95.0	93.0	86.7	117.0	98.7	95.7	98.1	88.3	90.7	89.7	84.0	83.7	87.3
60	ADV 1190384	96.7	90.0	88.3	91.6	96.0	93.0	86.3	101.5	94.0	94.2	98.0	91.0	99.0	113.0	97.3	100.3	99.7	102.3	87.3	90.7	88.3	81.3	90.0
61	HT 51412373	96.0	89.0	89.3	91.4	92.3	95.7	84.3	103.5	100.0	95.2	100.0	98.0	97.7	104.0	98.7	98.0	99.7	98.7	89.0	90.3	86.0	83.0	89.4
62	SAFAL X-2	97.3	89.3	88.8	91.8	89.7	98.0	85.3	103.0	95.0	94.2	102.0	86.7	99.3	117.0	98.7	100.0	100.7	100.7	90.0	94.7	88.0	81.7	91.0
63	JH 13197	98.0	90.3	89.0	92.4	93.3	95.0	86.7	102.0	96.5	94.7	96.0	96.7	99.3	113.0	98.7	100.0	100.7	90.0	88.3	88.7	88.0	84.0	87.8
64	super 6768	99.7	88.3	87.8	91.9	86.7	94.3	84.3	103.0	95.0	92.7	94.3	94.7	94.0	110.0	96.7	97.0	97.9	99.0	88.7	93.7	84.0	81.0	89.3
65	JH 13278	97.0	86.3	85.8	89.7	87.7	94.7	84.3	99.5	95.5	92.3	95.3	93.7	96.7	112.0	81.3	99.0	95.8	104.3	88.0	93.0	83.7	82.3	90.3
66	IN 8570	98.3	88.7	88.5	91.8	94.7	94.0	85.3	101.5	97.5	94.6	102.0	95.3	97.3	111.0	95.7	100.0	100.3	102.0	90.7	89.0	86.7	81.0	89.9
67	GPMH-1111	96.3	88.0	85.0	89.8	90.3	94.0	84.3	98.0	90.5	91.4	92.0	90.3	87.7	105.0	93.3	95.3	93.7	93.0	89.0	89.3	84.0	82.3	87.5
68	JH 13248	96.7	89.7	87.8	91.4	86.7	97.3	86.3	101.5	98.0	94.0	100.7	91.3	99.0	111.0	94.3	100.0	99.3	94.0	89.3	89.3	87.7	80.7	88.2

Table No. 1 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK																				Mean		
		ZN 2					ZN 3					ZN 4					ZN 5							
		KANP	KARN	LUDH	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI		GODH	UDAI
69	SAMH-378	96.0	89.0	86.3	90.4	89.7	95.0	85.0	104.5	87.0	92.2	98.0	90.3	87.3	113.0	95.3	97.7	96.8	96.0	89.0	91.3	86.3	86.0	89.7
70	KH-2192	97.3	87.3	89.3	91.3	88.7	95.0	85.3	102.5	92.0	92.7	97.7	96.0	88.0	105.7	98.7	96.3	97.2	91.0	90.3	91.7	87.0	83.3	88.7
71	ADV 0990293	98.0	87.7	89.0	91.6	87.7	94.7	86.3	101.5	100.5	94.1	98.0	95.3	100.7	112.0	99.3	101.0	101.1	99.3	88.7	93.7	86.7	83.0	90.3
72	JH 13252	97.3	90.3	89.0	92.2	89.7	92.7	86.0	100.0	95.5	92.8	102.0	94.0	100.3	101.7	96.7	100.3	98.9	98.3	89.0	90.3	87.0	83.0	89.5
73	NMH 1605	98.0	86.7	88.8	91.1	92.3	94.3	84.3	100.5	94.0	93.1	100.0	92.0	97.3	110.0	94.0	102.0	98.7	98.0	89.0	90.7	88.0	81.0	89.3
74	GPMH-1101	99.7	88.0	86.3	91.3	90.3	95.7	84.3	102.5	84.5	91.5	96.0	91.0	90.7	104.0	94.7	95.7	95.3	101.0	89.7	89.0	85.7	81.0	89.3
75	PM 14101L	97.0	89.3	90.8	92.4	91.7	95.0	89.7	100.5	98.0	95.0	99.3	96.0	98.3	112.0	100.0	99.7	101.1	94.0	88.7	89.0	90.3	84.0	89.2
76	CMH12-667	98.3	85.3	85.8	89.8	87.7	94.0	84.3	100.0	94.0	92.0	96.0	91.0	95.3	101.7	94.0	96.3	95.6	93.3	88.7	91.3	86.7	82.3	88.5
77	BH 412141	96.3	87.0	88.0	90.4	88.7	95.3	86.7	102.0	91.5	92.8	98.0	91.3	95.3	112.0	94.0	97.7	98.1	99.3	88.7	90.7	88.7	81.3	89.7
78	Srikar 3033	96.7	91.3	84.5	90.8	90.3	96.7	83.7	102.5	89.0	92.4	95.0	90.3	94.0	113.0	94.7	97.7	97.4	86.3	90.0	91.7	87.3	80.7	87.2
79	JH 13282	97.3	90.3	86.5	91.4	87.7	95.3	85.3	99.5	97.0	93.0	102.0	95.7	99.0	115.0	96.7	98.7	101.7	101.3	89.7	90.7	90.7	82.0	90.9
80	IN 8903	98.0	92.0	90.3	93.4	90.7	94.7	86.7	101.5	96.0	93.9	100.0	95.3	97.0	113.0	98.0	99.0	100.7	98.0	88.7	92.7	89.7	84.0	90.6
81	GYH-0652	97.3	85.7	83.8	88.9	88.3	95.0	83.7	101.5	89.5	91.6	90.0	85.3	87.7	100.0	91.7	95.0	90.9	99.0	90.0	91.7	83.7	80.3	88.9
82	NMH 1008	98.0	86.7	88.5	91.1	88.7	95.0	87.7	101.5	97.5	94.1	98.0	93.0	97.0	113.0	98.0	99.0	99.8	98.0	88.3	87.7	86.0	80.7	88.1
83	GK-3124	99.7	89.0	87.5	92.1	91.7	95.0	86.0	100.0	98.0	94.1	100.0	90.0	99.0	114.0	94.3	99.3	99.5	102.7	89.7	88.7	90.7	81.7	90.7
84	ADV 0990296	97.0	89.0	88.5	91.5	93.7	94.0	85.0	101.0	98.0	94.3	102.0	95.3	99.0	111.0	100.0	100.7	101.5	101.3	89.3	93.3	89.0	85.3	91.6
85	CMH11-618	98.3	90.7	86.3	91.8	88.3	94.0	84.0	101.0	91.5	91.8	96.0	92.0	94.7	115.0	94.0	95.0	98.3	91.0	89.3	88.3	87.7	83.0	87.9
86	REH2013-5	96.3	90.3	88.0	91.6	92.3	95.0	86.3	100.0	98.0	94.3	95.0	90.0	98.7	112.0	98.0	100.7	98.7	100.0	89.7	91.0	85.0	82.0	89.5
87	DAS-MH-106	96.7	84.3	86.8	89.3	88.7	95.7	83.7	102.5	86.5	91.4	95.3	90.3	87.3	112.0	98.0	96.7	96.6	102.0	89.3	90.0	86.7	87.0	91.0
88	JH 13244	99.7	84.7	88.3	90.9	87.7	94.0	87.0	102.0	92.0	92.5	95.7	90.0	98.3	107.3	96.3	101.0	97.5	98.3	87.3	90.7	91.3	84.0	90.3
89	AMH-3436	97.0	85.7	87.3	90.0	88.0	95.0	86.3	103.0	93.0	93.1	100.0	92.0	99.7	111.0	97.0	102.0	99.9	98.3	89.3	89.3	89.7	83.0	89.9
90	IN 8603	98.3	89.0	90.5	92.6	88.3	95.3	85.0	103.5	93.0	93.0	101.3	95.0	98.7	113.0	76.7	100.0	96.9	103.0	90.3	90.3	87.3	82.7	90.7
91	JH 13230	96.3	92.0	88.5	92.3	87.7	93.7	86.0	101.5	97.0	93.2	100.0	91.7	99.7	113.0	98.0	102.0	100.5	93.0	89.7	91.3	89.3	86.3	89.9
92	DAS-MH-107	96.7	88.7	86.8	90.7	89.7	93.0	84.7	99.0	92.5	91.8	102.0	90.3	95.0	111.0	98.7	98.7	99.4	97.3	88.7	89.7	84.0	80.0	87.9
93	IAHM 2013-12	96.7	84.7	85.0	88.8	88.3	95.7	86.0	99.0	86.5	91.1	95.0	86.7	90.3	111.0	93.7	96.3	95.3	92.0	90.3	91.7	88.3	82.3	88.9
94	JH 12010	96.0	90.0	88.5	91.5	89.3	96.0	84.3	101.5	93.5	92.9	96.0	93.7	99.3	112.0	97.3	102.3	99.7	99.0	89.7	89.7	90.0	83.7	90.4
95	BH 412131	97.3	83.0	85.8	88.7	88.7	94.3	83.3	101.0	96.5	92.8	94.7	92.0	92.7	103.3	95.3	98.3	95.6	92.0	90.7	90.7	84.7	81.7	88.0
96	Super 1177	98.0	88.7	85.5	90.7	91.3	93.7	84.0	105.0	91.5	93.1	95.0	92.0	96.7	114.3	96.0	96.3	98.8	95.3	90.0	91.7	84.0	80.7	88.3
97	Super 777	97.3	88.0	89.8	91.7	88.7	96.3	85.7	98.0	98.5	93.4	98.0	91.7	95.3	110.0	87.7	97.3	96.5	91.3	88.0	87.7	88.7	87.7	88.7
98	GH-110145	98.0	86.7	85.3	90.0	89.7	94.0	80.3	99.5	97.0	92.1	90.0	89.7	87.7	106.3	94.0	93.7	93.5	95.0	88.7	92.7	84.7	80.3	88.3
99	JH 13045	96.7	83.0	87.3	89.0	87.7	95.3	85.3	102.0	96.0	93.3	102.0	94.0	96.7	115.7	96.7	101.3	101.0	94.3	89.3	94.7	86.7	84.7	89.9
100	JH 13037	96.7	87.3	88.8	90.9	90.7	95.0	86.3	102.0	100.5	94.9	98.0	94.0	97.7	112.0	95.7	100.7	99.5	100.3	89.0	92.3	86.3	90.0	91.6
101	MAH-974	96.0	87.7	87.8	90.5	89.3	94.0	85.3	101.5	93.0	92.6	94.7	90.3	88.3	103.7	93.3	95.0	94.1	99.0	90.0	91.3	86.7	82.7	89.9
102	BH 412096	97.3	89.3	88.3	91.6	89.0	94.0	86.7	99.0	99.0	93.5	102.0	93.0	98.7	112.0	95.3	95.7	100.2	103.3	89.0	90.3	86.7	83.0	90.5

Table No. 1 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK																				Mean		
		ZN 2					ZN 3					ZN 4					ZN 5							
		KANP	KARN	LUDH	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean
103	PRMH-189	98.0	85.0	85.0	89.3	86.7	95.0	85.0	98.0	92.0	91.3	94.7	91.7	94.0	111.0	93.7	97.0	97.0	100.3	88.0	91.7	85.0	80.7	89.1
104	IN 8902	97.3	91.0	89.8	92.7	91.7	96.0	86.0	101.0	99.5	94.8	102.0	95.7	98.3	117.0	98.0	99.0	102.2	102.0	90.0	89.0	85.3	85.3	90.3
105	IN 8602	102.0	90.0	89.3	93.8	96.3	96.0	86.3	102.5	91.5	94.5	95.7	95.0	97.0	112.0	96.7	98.3	99.3	104.3	90.7	90.3	91.0	82.7	91.8
106	REH2013-6	101.7	91.3	87.3	93.4	92.3	95.0	86.3	104.5	99.5	95.5	98.0	94.3	98.3	113.0	98.7	99.0	100.5	91.7	89.0	92.3	86.0	81.0	88.0
107	JH 13270	100.0	88.3	89.8	92.7	87.3	94.0	87.0	106.5	99.5	94.9	98.0	95.3	100.3	112.0	96.0	100.0	100.3	100.0	89.0	91.3	89.7	80.3	90.1
108	BH 412095	101.7	92.0	86.5	93.4	86.7	94.0	84.3	102.0	92.5	91.9	95.0	90.0	87.3	113.0	95.3	96.7	96.1	101.3	89.3	94.0	87.0	81.7	90.7
109	HKH423	100.3	84.7	85.5	90.2	87.7	96.0	81.0	100.5	92.0	91.4	92.0	89.7	88.7	111.0	92.3	95.3	94.7	102.0	89.3	94.0	84.3	81.7	90.3
110	Sonam -27	102.7	89.7	88.8	93.7	90.7	95.0	86.0	100.0	95.0	93.3	95.7	93.7	97.3	115.0	96.0	100.7	99.5	94.3	90.0	93.3	86.7	83.3	89.5
111	REH2013-2	101.7	84.3	90.3	92.1	89.7	94.3	86.3	99.5	97.0	93.4	102.0	95.0	99.7	112.0	98.0	100.0	101.3	91.3	90.0	89.0	87.0	81.3	87.7
112	JKMH 4023	101.0	89.7	90.5	93.7	95.7	95.7	86.0	101.5	93.5	94.5	102.7	94.7	99.0	112.0	97.3	100.3	101.1	93.0	88.7	90.7	89.0	87.0	89.7
113	AH 7005	102.0	89.7	88.5	93.4	95.7	95.0	85.0	106.0	92.0	94.7	103.7	95.0	98.7	110.0	97.3	98.3	100.9	93.7	89.7	89.3	89.0	89.0	90.1
114	CSM-1	101.7	88.7	87.3	92.5	93.7	96.0	85.0	104.5	95.5	94.9	95.0	93.0	93.3	105.0	97.3	96.7	96.7	95.0	89.7	93.7	85.0	81.7	89.0
115	CSM-2	102.0	87.0	86.8	91.9	90.3	95.3	87.7	101.0	95.5	94.0	95.0	93.7	95.7	102.0	95.3	97.0	96.3	97.0	89.7	93.7	84.7	82.3	89.5
	CHECKS																							
116	PMH1	100.0	88.7	88.0	92.2	87.7	96.0	85.0	100.5	94.0	92.6	96.0	90.7	95.7	113.0	94.0	98.7	97.9	95.0	89.3	91.7	88.3	82.7	89.4
117	PMH3	100.7	89.7	87.8	92.7	89.7	94.0	84.0	106.0	94.0	93.5	96.0	93.3	98.0	112.0	81.3	99.3	96.1	98.3	87.7	89.3	90.0	81.0	89.3
118	BIO-9681	101.7	87.0	85.0	91.2	89.7	95.3	83.0	101.5	87.0	91.3	94.7	89.3	86.3	101.7	92.3	94.0	92.9	90.0	89.3	90.3	82.3	82.0	86.8
119	SeedTech 2324	101.7	85.7	87.3	91.5	89.7	95.0	84.0	102.0	95.5	93.2	95.0	93.0	95.7	115.0	94.7	98.3	98.7	93.0	88.7	93.3	90.0	82.7	89.5
120	HM11	101.0	89.7	89.8	93.5	91.0	96.0	83.7	106.5	99.5	95.3	102.0	92.3	97.7	112.0	96.7	96.3	100.1	89.0	89.0	90.3	85.0	81.7	87.0
	Loc. Mean	97.8	88.3	87.7	91.3	89.3	95.0	85.3	101.0	94.5	93.2	98.1	92.5	96.0	110.0	95.7	98.5	98.5	97.1	89.2	90.7	87.2	83.0	89.4
	C.D. (5%)	2.53	1.16	2.45	2.91	2.04	1.94	2.77	2.01	3.51	2.84	0.70	2.48	2.96	2.02	8.09	2.68	3.61	3.97	2.01	4.99	3.05	1.41	
	C.V. (%)	1.61	0.81	2.01	1.98	1.42	1.27	2.02	1.00	1.88	2.46	0.44	1.67	1.92	1.14	5.26	1.69	2.95	2.54	1.40	3.42	2.18	1.06	
	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	0.06	0.00	0.00	0.00	0.21	0.54	0.00	0.00	

Table No. 1 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)																										
		ZN 2					ZN 3					ZN 4					ZN 5					OV'L						
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean	Mean
1	GPS -03	199.7	193.3	236.3	274.7	226.0	190.8	164.4	164.2	183.8	167.5	174.1	185.5	186.3	240.0	185.0	160.0	217.3	142.6	188.1	203.5	228.7	171.7	186.7	187.3	183.3	193.5	193.3
2	DMRH1416	198.0	178.3	238.8	238.0	213.3	166.1	158.0	128.8	140.6	165.0	151.7	177.5	181.0	217.0	166.7	150.0	212.7	129.7	176.4	219.3	218.7	180.0	186.7	182.0	195.0	196.9	183.1
3	HT 51412607	194.3	206.7	231.3	231.7	216.0	178.9	148.7	139.5	157.3	162.5	157.4	184.0	180.5	217.3	145.0	136.7	203.0	137.7	172.0	233.9	202.0	161.7	195.0	177.7	183.3	192.3	182.2
4	GPS -02	188.3	193.3	235.0	241.3	214.5	170.4	162.9	148.8	148.6	165.0	159.2	180.0	192.1	218.7	176.7	136.7	213.3	135.1	178.9	227.5	195.3	191.7	190.0	181.3	201.7	197.9	186.1
5	SYN417750	155.3	176.7	233.8	263.7	207.4	192.2	148.6	159.8	189.2	150.0	168.0	205.0	188.9	235.0	180.0	170.0	222.0	146.4	192.5	182.2	225.7	151.7	172.3	180.3	205.0	186.2	187.9
6	DMRH1415	187.7	190.0	231.3	244.7	213.4	171.4	171.8	147.2	157.7	137.5	157.1	180.5	177.5	215.0	170.0	158.3	218.3	141.3	180.1	207.1	222.0	171.7	186.7	179.7	193.3	193.4	184.6
7	GH-110204	191.7	178.3	238.8	241.3	212.5	204.2	173.1	152.7	159.5	157.5	169.4	178.5	170.5	227.0	176.7	153.3	198.3	130.7	176.4	229.7	173.3	171.7	180.0	187.3	185.0	187.8	184.5
8	KH-1408	203.0	197.3	235.0	235.3	217.7	169.1	145.3	140.2	161.3	152.5	153.7	176.5	191.5	207.0	160.0	135.0	203.3	138.7	173.2	202.8	215.0	173.3	195.0	190.0	183.3	193.2	182.3
9	NMH-1247	198.3	201.7	216.3	261.7	219.5	183.1	141.5	153.0	192.6	172.5	168.5	189.5	165.4	247.7	170.0	155.0	213.0	142.5	183.3	215.1	196.7	175.0	186.7	189.3	193.3	192.7	189.1
10	HKH422	200.7	183.3	222.5	248.3	213.7	190.4	174.8	141.8	164.6	160.0	166.3	189.0	183.1	221.0	175.0	143.3	217.3	136.9	180.8	218.7	201.7	173.3	201.7	171.7	193.3	193.4	186.9
11	VEH 14-1	199.3	210.0	242.5	282.0	233.5	184.1	176.9	169.5	185.4	187.5	180.7	208.0	207.3	243.7	213.3	148.3	227.7	148.3	199.5	210.4	220.7	176.7	183.3	188.3	196.7	196.0	200.4
12	PM 14102L	196.0	221.7	256.3	256.0	232.5	187.2	177.9	164.8	152.3	170.0	170.4	215.5	187.1	259.3	208.3	190.0	226.7	153.5	205.8	213.1	243.7	161.7	188.3	201.3	220.0	204.7	202.3
13	Gin 01	181.7	181.7	226.3	252.7	210.6	178.4	142.9	143.8	167.3	157.5	158.0	188.5	169.3	215.3	168.3	170.0	215.7	115.1	177.5	202.5	206.7	170.0	180.0	179.7	226.7	194.2	183.6
14	JH 13023	193.0	236.7	260.0	277.7	241.8	204.0	176.6	170.2	169.9	197.5	183.6	210.5	183.9	254.3	183.3	190.0	226.7	159.3	201.1	226.5	239.0	186.7	185.0	195.3	196.7	204.9	205.6
15	115-08-01	184.7	161.7	200.0	250.7	199.3	173.4	162.8	136.0	143.1	155.0	154.1	177.5	167.7	222.7	155.0	151.7	209.0	139.1	174.7	220.0	217.0	178.3	186.7	186.0	190.0	196.3	180.4
16	KF-110	174.3	181.7	232.5	259.3	212.0	199.2	154.4	149.5	162.3	162.5	165.6	187.5	185.3	234.7	185.0	155.0	210.3	139.9	185.4	206.6	220.7	173.3	191.7	171.3	195.0	193.1	187.8
17	PM 14106L	176.0	205.0	260.0	291.3	233.1	228.2	181.3	163.3	180.3	177.5	186.1	202.5	191.7	253.7	185.0	181.7	228.3	138.9	197.4	222.7	220.3	171.7	190.0	178.0	198.3	196.8	201.2
18	PM 14105L	183.3	211.7	265.0	288.0	237.0	203.5	178.5	163.2	170.5	185.0	180.1	204.0	197.4	246.0	175.0	153.3	220.3	149.8	192.3	193.5	227.0	175.0	201.7	185.0	193.3	195.9	198.6
19	Bio-069	187.3	181.7	247.5	260.7	219.3	181.2	165.2	152.3	153.0	177.5	165.8	194.0	172.3	234.3	165.0	158.3	206.7	135.1	180.8	226.7	245.3	178.3	203.3	174.7	180.0	201.4	190.0
20	PMSY -3	186.3	155.0	256.3	246.0	210.9	187.8	149.8	160.3	170.2	182.5	170.1	188.0	178.0	226.7	163.3	161.7	201.3	143.3	180.3	214.8	213.7	168.3	185.0	171.0	196.7	191.6	186.6
21	NT 8441	193.7	216.7	250.0	275.3	233.9	184.3	167.4	162.2	151.1	172.5	167.5	215.0	166.1	233.0	175.0	183.3	236.0	133.1	191.6	206.9	205.3	168.3	183.3	169.0	198.3	188.5	193.0
22	Proline-2404	187.3	203.3	257.5	281.3	232.4	205.7	158.0	161.0	173.4	175.0	174.6	205.0	193.1	261.3	190.0	161.7	216.7	152.3	197.2	206.3	218.3	173.3	191.7	175.3	195.0	193.3	197.4
23	siri -4555	174.7	198.3	256.3	271.0	225.1	197.5	147.2	165.0	162.1	152.5	164.9	206.0	185.3	244.7	195.0	175.0	241.0	123.6	195.8	227.4	223.3	183.3	190.0	200.7	201.7	204.4	196.4
24	JKMH 4242	175.3	201.7	236.3	245.3	214.6	188.5	148.9	141.7	168.3	162.5	162.0	182.0	187.4	242.7	150.0	168.3	212.7	115.5	179.8	197.9	225.3	180.0	190.0	180.3	178.3	192.0	185.4
25	GOLD 1166	176.7	201.7	232.5	266.7	219.4	178.1	168.7	143.5	167.4	167.5	165.1	159.5	179.1	225.7	170.0	156.7	199.7	120.1	173.0	215.5	215.0	170.0	195.0	167.3	186.7	191.6	184.7
26	VNR 4325	183.7	203.3	221.3	251.0	214.8	182.8	141.5	137.0	171.2	162.5	159.0	171.0	165.2	220.0	136.7	168.3	204.3	116.4	168.8	243.3	248.7	175.0	203.3	179.0	183.3	205.4	184.9
27	CMH12-671	185.3	205.0	260.0	284.0	233.6	198.5	176.4	168.2	175.5	192.5	182.2	203.5	183.9	243.3	175.0	168.3	228.0	156.2	194.0	230.1	232.0	171.7	185.0	188.0	186.7	198.9	199.9
28	HT 51412616	194.0	180.0	232.5	245.7	213.0	182.1	141.7	140.7	170.6	152.5	157.5	173.5	188.5	212.7	171.7	133.3	203.0	130.9	173.4	225.6	217.0	165.0	191.7	188.0	178.3	194.3	182.7
29	CMH10-555	194.7	180.0	242.5	255.3	218.1	202.8	166.7	155.5	177.5	180.0	176.5	201.0	190.5	222.0	190.0	168.3	220.0	151.7	191.9	216.6	213.3	190.0	186.7	188.3	196.7	198.6	195.0
30	CMH12-663	186.7	213.3	248.8	275.0	230.9	212.5	163.3	182.7	191.1	205.0	190.9	209.0	188.8	250.3	206.7	166.7	221.3	153.1	199.4	231.4	220.3	185.0	186.7	189.0	226.7	206.5	205.2
31	DKC9125	190.0	213.3	250.0	278.7	233.0	204.6	143.1	163.2	165.3	182.5	171.7	212.0	191.7	252.3	200.0	193.3	224.0	146.0	202.8	207.1	238.7	171.7	191.7	213.0	203.3	204.2	201.6
32	KMH-3981	188.0	198.3	281.3	288.7	239.1	219.9	187.9	163.3	164.8	180.0	183.2	206.0	200.8	267.3	215.0	228.3	220.7	150.3	212.6	203.3	232.0	165.0	175.0	209.7	198.3	197.2	206.5
33	DMH-192	184.7	173.3	245.0	255.3	214.6	180.0	145.0	162.8	165.5	162.5	163.2	202.0	195.4	227.3	180.0	146.7	215.3	138.9	186.5	185.1	220.3	201.7	193.3	212.0	196.7	201.5	190.4
34	DMRH1413	185.7	136.7	195.0	190.7	177.0	-	150.2	93.8	153.3	140.0	134.3	154.5	132.1	174.7	130.0	146.7	180.3	106.0	146.3	213.1	175.0	186.7	186.7	172.0	176.7	185.0	160.9
35	K-25 Gold	180.7	170.0	253.8	257.3	215.4	192.1	155.2	154.5	162.2	162.5	165.3	192.5	184.2	248.7	166.7	161.7	214.7	152.1	188.6	189.8	194.0	170.0	191.7	197.3	190.0	188.8	188.2

Table No. 1 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)																				OV'L						
		ZN 2					ZN 3					ZN 4					ZN 5											
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean	Mean
71	ADV 0990293	196.3	181.7	231.3	250.3	214.9	186.3	175.4	140.5	179.9	165.0	169.4	186.0	187.7	232.7	173.3	141.7	214.3	130.5	180.9	218.4	223.7	176.7	196.7	167.0	195.0	196.2	188.7
72	JH 13252	187.7	200.0	258.8	269.3	228.9	206.5	156.2	167.7	172.6	192.5	179.1	215.5	176.9	250.3	198.3	158.3	227.7	131.0	194.0	213.9	228.3	188.3	198.3	217.7	211.7	209.7	201.3
73	NMH 1605	189.0	173.3	251.3	277.3	222.7	178.2	150.9	153.5	161.5	152.5	159.3	206.5	202.1	237.7	180.0	163.3	217.7	142.8	192.9	188.3	244.0	178.3	186.7	195.7	203.3	199.4	192.4
74	GPMH-1101	183.3	193.3	250.0	256.0	220.7	193.2	171.4	160.3	180.8	182.5	177.7	179.0	186.3	241.0	191.7	146.3	209.3	143.8	185.4	199.7	230.3	166.7	195.0	186.3	183.3	193.6	192.3
75	PM 14101L	186.0	223.3	277.5	318.0	251.2	231.0	157.8	169.2	172.5	192.5	184.6	221.5	183.5	268.7	211.7	175.0	250.7	144.1	207.9	191.3	255.3	173.3	173.3	213.3	230.0	206.1	210.0
76	CMH12-667	197.3	190.0	245.0	268.7	225.3	205.8	146.7	152.7	191.4	170.0	173.3	211.5	188.7	250.3	195.0	188.3	223.0	148.9	200.8	210.1	203.3	178.3	193.3	201.3	210.0	199.4	198.6
77	BH 412141	198.0	203.3	240.0	264.7	226.5	199.0	176.8	168.0	166.9	177.5	177.6	201.0	178.1	251.0	186.7	191.7	215.0	129.1	193.2	200.1	215.3	181.7	181.7	205.0	200.0	197.3	196.8
78	Srikar 3033	194.3	183.3	227.5	252.0	214.3	181.1	158.9	138.0	164.7	157.5	160.0	180.0	175.9	234.0	160.0	156.7	202.7	106.9	173.7	201.6	197.3	176.7	195.0	196.3	208.3	195.9	184.0
79	JH 13282	184.7	188.3	261.3	254.0	222.1	217.6	156.9	175.5	178.6	182.5	182.2	217.5	178.2	248.3	196.7	176.7	230.7	134.9	197.6	198.0	245.0	178.3	186.7	198.0	208.3	202.4	199.8
80	IN 8903	196.3	98.3	256.3	277.3	207.1	209.0	174.3	168.7	179.1	200.0	186.2	206.5	178.3	227.7	190.0	153.3	206.3	144.9	186.7	214.9	247.3	180.0	191.7	208.0	223.3	210.9	196.9
81	GYH-0652	191.0	181.7	247.5	250.7	217.7	196.9	187.0	150.5	172.7	202.5	181.9	173.0	159.8	220.3	165.0	130.0	212.0	132.4	170.4	215.8	215.0	185.0	180.0	181.3	196.7	195.6	188.5
82	NMH 1008	185.7	181.7	226.3	253.3	211.7	177.9	150.6	136.2	160.4	157.5	156.5	182.5	176.3	217.7	168.3	151.7	208.0	143.1	178.2	226.5	204.0	171.7	170.0	182.0	173.3	187.9	182.0
83	GK-3124	183.3	186.7	237.5	274.0	220.4	197.4	153.9	160.8	178.7	175.0	173.2	194.5	180.5	251.7	195.0	156.7	210.7	133.0	188.9	236.5	229.0	198.3	200.0	195.7	201.7	210.2	196.8
84	ADV 0990296	186.0	198.3	217.5	254.7	214.1	177.1	160.7	150.7	176.7	135.0	160.0	171.0	174.3	223.0	155.0	161.7	209.3	144.8	177.0	204.4	229.0	176.7	166.7	180.3	193.3	191.7	183.9
85	CMH11-618	197.3	196.7	248.8	266.7	227.4	192.7	156.0	158.7	157.1	187.5	170.4	198.5	186.0	236.3	175.0	143.3	218.0	145.8	186.1	217.1	210.3	173.3	190.0	190.7	223.3	200.8	194.1
86	REH2013-5	198.0	193.3	236.3	222.7	212.6	186.4	151.5	152.3	171.3	147.5	161.8	198.5	195.1	222.3	150.0	135.0	217.7	140.4	179.9	192.7	200.3	176.7	190.0	201.3	178.3	189.9	184.4
87	DAS-MH-106	194.3	190.0	235.0	268.0	221.8	192.0	167.7	155.3	167.9	172.5	171.1	208.0	185.9	239.7	185.0	150.0	211.3	149.5	189.9	216.8	215.3	176.7	195.0	197.7	201.7	200.5	194.3
88	JH 13244	183.3	196.7	266.3	277.3	230.9	193.2	163.6	156.8	177.6	182.5	174.8	206.0	166.7	226.7	165.0	166.7	220.7	129.9	183.1	234.5	208.7	171.7	195.0	190.0	205.0	200.8	194.7
89	AMH-3436	182.7	210.0	235.0	241.3	217.3	174.9	155.0	146.8	158.9	160.0	159.1	190.5	174.4	232.7	165.0	161.7	212.7	138.7	182.2	238.7	225.0	150.0	180.0	190.0	196.7	196.7	187.3
90	IN 8603	197.3	235.0	273.8	276.7	245.7	210.7	186.1	156.0	172.0	197.5	184.5	198.0	182.3	225.7	198.3	178.3	210.7	139.2	190.4	204.7	230.0	176.7	180.0	183.3	186.7	193.6	199.9
91	JH 13230	198.0	211.7	248.8	288.0	236.6	199.1	151.1	152.8	189.4	167.5	172.0	210.0	194.9	246.0	185.0	146.7	207.3	133.1	189.0	210.2	227.0	180.0	198.3	184.3	198.3	199.7	196.7
92	DAS-MH-107	194.3	176.7	230.0	248.0	212.3	187.5	183.7	157.5	166.7	185.0	176.1	196.5	185.6	235.7	166.7	170.0	214.0	131.6	185.7	231.3	220.0	181.7	190.0	192.7	196.7	202.1	192.8
93	IAHM 2013-12	194.3	205.0	235.0	240.0	218.6	175.9	165.7	124.8	161.4	155.0	156.6	172.5	178.3	241.3	173.3	155.0	206.0	129.1	179.4	227.3	220.3	171.7	198.3	169.3	193.3	196.7	186.0
94	JH 12010	187.7	220.0	270.0	306.0	245.9	198.4	170.3	166.7	182.2	180.0	179.5	211.0	186.5	276.3	216.7	185.0	229.0	156.3	208.7	214.1	238.7	190.0	200.0	172.0	206.7	203.6	207.4
95	BH 412131	184.7	173.3	245.0	244.3	211.8	181.9	161.9	143.0	163.1	172.5	164.5	175.0	154.3	230.0	168.3	150.0	206.0	118.1	171.7	207.5	230.3	161.7	191.7	171.0	188.3	191.7	182.8
96	Super 1177	193.0	186.7	225.0	250.7	213.8	187.1	180.5	138.5	170.2	160.0	167.3	188.0	155.5	233.0	160.0	158.3	212.7	121.3	175.5	185.6	215.7	190.0	201.7	180.3	203.3	196.1	186.2
97	Super 777	187.7	195.0	231.3	268.7	220.6	194.1	170.5	164.8	167.0	177.5	174.8	198.0	197.9	237.7	168.3	178.3	222.3	139.5	191.7	194.1	181.0	163.3	188.3	185.0	208.3	186.7	191.8
98	GH-110145	185.7	163.3	235.0	239.3	205.8	180.5	160.0	147.0	162.5	145.0	159.0	188.5	173.4	224.0	151.7	156.7	205.0	124.6	174.8	218.2	223.3	171.7	188.3	163.7	176.7	190.3	181.1
99	JH 13045	194.3	200.0	252.5	280.0	231.7	200.4	181.0	155.8	176.4	202.5	183.2	230.0	178.3	254.7	210.0	168.3	238.7	148.9	204.1	182.5	225.3	181.7	166.7	202.0	201.7	193.3	201.4
100	JH 13037	194.3	213.3	256.3	264.0	232.0	210.2	167.1	170.8	176.5	187.5	182.4	205.0	190.4	234.0	193.3	151.7	220.0	145.3	191.4	193.2	222.0	190.0	188.3	170.7	208.3	195.4	197.8
101	MAH-974	187.7	211.7	236.3	251.3	221.7	146.4	162.9	133.2	168.4	175.0	157.2	190.5	191.0	227.0	150.0	146.7	217.0	128.3	178.6	207.0	193.7	183.3	190.0	159.0	190.0	187.2	183.9
102	BH 412096	184.7	228.3	236.3	262.0	227.8	199.3	165.5	160.0	178.5	172.5	175.2	195.0	179.9	232.0	175.0	156.7	201.0	149.8	184.2	235.4	205.3	181.7	188.3	180.7	196.7	198.0	193.8
103	PRMH-189	197.7	180.0	237.5	256.7	218.0	180.1	175.8	137.7	154.4	160.0	161.6	184.0	178.9	239.3	178.3	145.0	214.0	137.6	182.5	230.9	214.0	166.7	195.0	177.0	201.7	197.5	188.3
104	IN 8902	188.3	180.0	261.3	267.3	224.2	211.7	170.3	178.2	161.8	195.0	183.4	213.5	191.8	248.3	203.3	166.7	223.3	164.2	201.6	211.8	218.3	173.3	195.0	191.3	198.3	198.0	200.6
105	IN 8602	185.3	208.3	253.8	264.7	228.0	188.7	185.9	156.0	162.1	167.5	172.0	194.0	176.7	239.0	176.7	181.7	203.7	129.7	185.9	231.1	220.3	191.7	196.7	183.0	193.3	202.7	195.0

Table No. 1 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)																										
		KANP	KARN	LUDH	PANT	ZN 2					ZN 3					ZN 4					ZN 5		OV'L					
		Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	JHAB	UDAI	Mean	Mean				
106	REH2013-6	190.0	208.3	248.8	271.0	229.5	202.5	166.7	164.5	163.9	165.0	172.5	198.0	187.5	231.0	170.0	165.0	219.7	153.5	189.2	219.5	225.7	183.3	176.7	190.7	196.7	198.7	195.4
107	JH 13270	191.3	200.0	243.8	280.0	228.8	213.4	182.5	174.5	160.5	172.5	180.7	200.0	194.7	267.3	186.7	160.0	226.3	148.9	197.7	221.5	205.3	156.7	193.3	170.0	196.7	190.6	197.5
108	BH 412095	185.3	190.0	230.0	249.3	213.7	176.4	154.2	133.7	162.5	170.0	159.4	183.5	164.1	219.7	160.0	153.3	209.7	119.7	172.9	218.7	212.0	183.3	195.0	169.7	208.3	197.8	184.0
109	HKH423	190.3	146.7	225.0	231.7	198.4	179.1	151.6	132.0	169.6	142.5	155.0	175.5	186.6	215.7	148.3	150.0	200.3	131.1	172.5	211.9	207.3	175.0	196.7	167.7	176.7	189.2	177.8
110	Sonam -27	195.0	176.7	246.3	250.7	217.1	204.2	180.0	160.5	165.2	182.5	178.5	200.0	188.2	250.3	170.0	158.3	213.3	129.1	187.0	201.4	207.0	176.7	195.0	169.0	198.3	191.2	191.7
111	REH2013-2	193.3	143.3	251.3	236.7	206.1	206.0	178.5	167.3	164.4	160.0	175.3	200.0	174.3	235.0	190.0	148.3	229.0	139.2	188.0	200.0	205.7	171.7	193.3	202.0	190.0	193.8	190.0
112	JKMH 4023	188.7	210.0	258.8	284.0	235.4	195.8	158.2	162.5	168.7	180.0	173.0	187.0	171.2	252.3	221.7	161.7	206.0	141.7	191.7	213.9	215.0	176.7	190.0	204.0	178.3	196.3	196.6
113	AH 7005	191.3	176.7	245.0	245.3	214.6	180.8	164.5	149.8	164.8	172.5	166.5	172.5	175.3	224.0	156.7	146.7	188.7	126.4	170.0	213.1	210.3	151.7	186.7	182.7	178.3	187.1	182.0
114	CSM-1	186.7	196.7	242.5	270.7	224.1	187.2	152.1	148.2	163.5	167.5	163.7	195.5	181.7	238.3	170.0	156.7	224.0	138.7	186.4	223.3	201.7	176.7	178.3	203.0	176.7	193.3	190.0
115	CSM-2	185.0	161.7	238.8	240.0	206.4	192.2	155.5	152.0	184.4	155.0	167.8	183.0	174.7	209.7	180.0	160.0	230.7	150.2	184.0	215.5	220.3	156.7	183.3	184.7	196.7	192.9	186.8
	CHECKS																											
116	PMH1	185.3	218.3	262.5	266.0	233.0	211.7	181.0	159.8	171.3	192.5	183.3	215.0	195.2	239.0	173.3	160.0	220.0	150.0	193.2	225.0	235.3	180.0	185.0	196.7	220.0	207.0	202.0
117	PMH3	192.3	211.7	248.8	281.3	233.5	201.1	185.7	172.0	172.1	202.5	186.7	202.0	183.3	249.0	200.0	161.7	223.3	158.9	196.9	231.0	215.3	170.0	203.3	211.3	200.0	205.2	203.5
118	BIO-9681	184.0	191.7	237.5	249.0	215.5	206.4	165.5	161.3	161.0	155.0	169.9	187.0	161.4	229.7	175.0	168.3	221.0	141.4	183.4	231.1	242.3	186.7	198.3	199.0	198.3	209.3	193.2
119	SeedTech 2324	193.0	223.3	223.8	257.3	224.4	186.8	167.0	146.2	172.4	180.0	170.5	175.5	171.7	220.3	178.3	156.7	171.3	127.0	171.6	189.0	205.3	155.0	203.3	181.7	203.3	189.6	185.8
120	HM11	186.7	190.0	243.8	258.0	219.6	185.5	159.1	161.3	167.0	182.5	171.1	201.0	177.8	231.7	170.0	156.7	216.3	151.7	186.4	205.9	218.7	166.7	171.7	154.3	195.0	185.4	188.7
	Loc. Mean	188.9	191.9	243.1	262.8	221.6	190.8	162.9	154.4	168.9	171.8	170.0	194.8	182.2	236.0	178.5	160.5	215.4	139.5	186.7	213.3	218.2	175.7	189.6	187.0	196.3	196.7	192.0
	C.D. (5%)	11.78	6.15	23.04	13.84	18.52	27.12	6.30	21.78	21.38	14.39	13.67	11.65	11.57	16.98	10.01	30.88	20.22	20.44	10.61	19.43	45.67	25.40	20.04	9.71	11.12	13.61	6.98
	C.V. (%)	3.88	1.99	6.82	3.27	6.01	8.83	2.41	8.77	6.39	4.23	6.47	3.72	3.95	4.47	3.49	11.96	5.84	9.11	5.41	5.66	13.01	8.99	6.57	3.23	3.52	6.10	6.15
	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	0.50	0.45	0.08	0.00	0.00	0.00	0.00

Table No. 1 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm)										ZN 5														
		ZN 2					ZN 3					ZN 4					ZN 5									
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean
1	GPS -03	97.3	98.3	123.8	108.0	106.9	90.3	74.2	86.0	90.5	82.5	84.7	90.0	106.1	111.7	101.7	66.7	105.7	65.4	92.4	68.7	120.0	71.7	76.7	83.3	84.1
2	DMRH1416	96.3	108.3	136.3	111.0	113.0	80.0	72.3	68.0	61.4	72.5	70.8	99.5	93.7	110.7	76.7	70.0	110.0	68.4	89.9	65.9	123.7	85.0	86.7	103.3	92.9
3	HT 51412607	95.0	106.7	127.5	112.0	110.3	86.7	62.1	75.0	68.2	85.0	75.4	99.0	100.1	117.7	83.3	55.0	94.7	70.2	88.6	85.9	120.0	78.3	81.7	90.0	91.2
4	GPS -02	87.7	103.3	123.8	103.7	104.6	85.1	75.2	69.8	57.8	87.5	75.1	97.0	101.9	98.0	95.0	60.0	109.0	68.6	89.9	81.9	107.0	88.3	81.7	90.0	89.8
5	SYN417750	78.7	86.7	110.0	109.3	96.2	83.3	59.6	85.0	92.2	67.5	77.5	102.0	102.3	100.3	86.7	73.3	107.3	63.4	90.8	65.6	128.7	65.0	75.0	91.7	85.2
6	DMRH1415	83.7	100.0	132.5	114.0	107.5	76.6	78.8	76.7	73.7	75.0	76.2	101.5	98.7	106.0	95.0	60.0	113.7	73.2	92.6	77.8	119.0	81.7	86.7	81.7	89.4
7	GH-110204	98.0	81.7	125.0	98.7	100.8	84.2	78.5	79.3	68.2	85.0	79.1	89.0	83.0	115.3	75.0	58.3	99.3	51.1	81.6	84.2	83.7	81.7	78.3	85.0	82.6
8	KH-1408	101.3	110.0	128.8	111.0	112.8	76.6	66.1	75.8	74.7	82.5	75.2	93.5	100.3	96.0	85.0	56.7	100.7	68.9	85.9	59.3	121.7	85.0	90.0	76.7	86.5
9	NMH-1247	98.0	111.7	116.3	113.0	109.7	72.6	63.9	75.3	80.4	92.5	76.9	101.0	95.6	115.0	85.0	63.3	104.7	67.3	90.3	72.4	117.0	80.0	85.0	83.3	87.5
10	HKH422	97.0	93.3	122.5	105.7	104.6	80.0	82.5	72.5	69.9	92.5	79.5	106.0	94.3	100.0	80.0	56.7	108.7	66.7	87.5	80.1	120.0	81.7	88.3	88.3	91.7
11	VEH 14-1	98.0	110.0	120.0	119.3	111.8	71.3	83.2	83.7	75.4	97.5	82.2	94.0	115.5	108.3	100.0	60.0	106.0	63.1	92.4	73.8	130.3	75.0	76.7	91.7	89.5
12	PM 14102L	89.3	116.7	128.8	118.0	113.2	72.3	83.3	83.2	69.8	85.0	78.7	108.5	96.6	118.3	95.0	93.3	113.3	73.3	99.8	73.1	130.7	68.3	83.3	98.3	90.7
13	Gin 01	81.7	101.7	131.3	122.0	109.1	96.7	59.4	84.0	83.2	95.0	83.7	107.5	98.2	107.3	80.0	81.7	113.0	59.4	92.4	65.4	111.7	63.3	78.3	103.3	84.4
14	JH 13023	85.7	121.7	136.3	121.7	116.3	93.9	75.4	91.8	70.4	107.5	87.8	118.0	98.4	124.0	93.3	81.7	110.7	75.4	100.2	74.9	150.7	80.0	73.3	81.7	92.1
15	115-08-01	86.7	76.7	118.8	115.7	99.4	73.2	76.5	71.0	62.6	77.5	72.1	95.5	91.9	104.3	70.0	63.3	106.0	69.9	85.8	73.2	115.0	86.7	78.3	88.3	88.3
16	KF-110	78.3	95.0	111.3	112.3	99.2	69.8	67.4	65.3	68.5	75.0	69.2	88.0	88.6	103.0	71.7	56.7	98.7	55.7	80.3	81.7	117.0	86.7	86.7	83.3	91.1
17	PM 14106L	73.3	115.0	127.5	118.0	108.5	96.7	84.6	79.2	76.3	87.5	84.8	104.5	94.9	119.3	95.0	76.7	127.3	64.1	97.4	78.5	131.7	80.0	85.0	91.7	93.4
18	PM 14105L	66.7	95.0	127.5	116.7	101.5	86.5	71.7	78.7	71.2	87.5	79.1	109.0	99.4	120.0	85.0	66.7	110.0	66.2	93.8	61.4	113.3	85.0	93.3	83.3	87.3
19	Bio-069	75.3	106.7	115.0	110.0	101.8	68.4	83.1	77.0	60.9	85.0	74.9	89.0	88.8	103.7	75.0	60.0	104.7	60.3	83.1	88.1	123.3	86.7	86.7	86.7	94.3
20	PMSY -3	84.7	70.0	130.0	110.7	98.8	77.8	69.9	82.7	73.1	120.0	84.7	102.0	91.2	93.7	71.7	65.0	92.7	62.5	82.7	68.7	103.7	68.3	78.3	95.0	82.8
21	NT 8441	86.0	110.0	128.8	128.3	113.3	77.6	83.6	77.7	70.4	112.5	84.4	106.5	94.1	110.7	90.0	85.0	116.0	74.5	96.7	68.1	110.0	68.3	76.7	100.0	84.6
22	Proline-2404	86.7	103.3	125.0	106.3	105.3	95.1	69.0	82.7	80.8	82.5	82.0	98.5	87.9	115.0	93.3	61.7	102.7	64.5	89.1	72.1	133.3	81.7	85.0	86.7	91.8
23	siri -4555	76.7	96.7	126.3	111.7	102.8	84.9	66.5	79.7	63.4	80.0	74.9	97.5	92.2	116.3	85.0	63.3	106.3	61.7	88.9	92.5	115.0	80.0	83.3	91.7	92.5
24	JKMH 4242	80.0	100.0	118.8	99.3	99.5	72.0	69.1	71.5	77.6	77.5	73.5	87.0	90.8	96.7	76.7	73.3	108.0	51.4	83.4	72.9	125.7	80.0	85.0	86.7	90.1
25	GOLD 1166	90.0	90.0	130.0	117.0	106.8	95.2	67.3	75.8	73.2	90.0	80.3	83.0	94.3	104.7	81.7	75.0	100.3	56.2	85.0	75.0	126.7	75.0	81.7	76.7	87.0
26	VNR 4325	89.0	113.3	121.3	112.0	108.9	84.5	59.4	75.8	78.5	80.0	75.6	91.5	86.5	103.0	73.3	71.7	103.3	57.3	83.8	89.7	143.7	85.0	85.0	83.3	97.3
27	CMH12-671	89.0	103.3	140.0	126.7	114.8	99.4	90.4	86.5	78.4	115.0	93.9	107.5	102.1	119.0	70.0	76.7	114.7	80.3	95.7	74.2	130.3	81.7	84.0	85.0	91.0
28	HT 51412616	86.7	80.0	131.3	109.7	101.9	84.3	63.8	75.5	77.6	182.5	96.7	92.0	91.7	102.7	76.7	56.7	103.7	67.7	84.4	74.1	126.7	76.7	88.3	93.3	91.8
29	CMH10-555	87.7	100.0	123.8	111.0	105.6	99.6	85.3	78.2	84.0	107.5	90.9	100.0	100.5	100.3	90.0	66.7	107.0	69.7	90.6	85.8	128.3	80.0	81.7	98.3	94.8
30	CMH12-663	88.7	118.3	128.8	115.7	112.9	96.6	82.3	97.7	82.0	107.5	93.2	108.5	118.1	117.0	100.0	66.7	113.3	80.6	100.6	82.2	120.7	86.7	78.3	128.3	99.2
31	DKC9125	88.0	103.3	127.5	123.3	110.5	95.7	58.7	87.8	75.1	102.5	84.0	98.5	100.3	110.0	65.0	71.7	113.0	61.9	88.6	79.5	121.7	88.3	85.0	93.3	93.6
32	KMH-3981	86.0	98.3	128.8	121.0	108.5	88.9	87.2	80.5	72.4	97.5	85.3	96.0	117.1	126.0	81.7	95.0	110.0	75.0	100.1	68.1	122.0	81.7	73.3	86.7	86.4
33	DMH-192	88.7	83.3	132.5	103.0	101.9	78.8	59.4	89.3	66.2	70.0	72.7	106.0	103.1	102.0	75.0	61.7	105.7	63.5	88.1	59.7	116.7	95.0	85.0	88.3	88.9
34	DMRH1413	92.3	51.7	105.0	97.0	86.5	-	68.0	43.7	64.5	72.5	62.2	87.0	76.7	89.7	56.7	65.0	93.3	48.2	73.8	78.3	115.7	78.3	81.7	78.3	86.5

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Table No. 1 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm)																								
		ZN 2					ZN 3					ZN 4					ZN 5									
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean
35	K-25 Gold	95.0	95.0	123.8	107.3	105.3	78.0	60.7	71.8	74.8	77.5	72.6	103.0	95.9	112.0	68.3	68.3	95.7	64.9	86.9	64.2	120.0	83.3	81.7	90.0	87.8
36	IN 8569	95.3	98.3	122.5	107.3	105.9	80.3	66.4	85.0	70.7	70.0	74.5	109.0	94.2	115.3	90.0	66.7	103.3	75.7	93.5	74.7	117.0	85.0	78.3	91.7	89.3
37	GK-3118	96.7	78.3	126.3	113.7	103.7	87.4	87.7	78.7	62.4	95.0	82.2	97.0	82.9	120.0	90.0	68.3	95.0	71.9	89.3	61.2	113.7	85.0	83.3	76.7	84.0
38	DMRH1409	96.7	83.3	118.8	113.0	102.9	79.3	65.5	69.2	81.2	92.5	77.5	91.5	98.3	105.3	71.7	58.3	106.0	63.6	85.0	82.5	123.0	71.7	86.7	91.7	91.1
39	VNR 31862	96.3	85.0	112.5	111.0	101.2	84.9	76.6	77.5	70.4	87.5	79.4	95.0	92.0	91.3	70.0	60.0	106.7	61.5	82.3	87.9	130.0	80.0	93.3	83.3	94.9
40	MAH-957	98.0	105.0	127.5	125.7	114.0	93.0	57.1	72.0	64.0	72.5	71.7	108.5	101.5	113.0	80.0	60.0	101.0	66.2	90.0	76.0	124.0	81.7	76.7	83.3	88.3
41	DMH-7721	96.7	90.0	133.8	121.0	110.4	103.6	88.5	74.7	71.4	60.0	79.6	91.5	119.7	108.3	90.0	63.3	100.0	75.5	92.6	77.4	138.7	75.0	73.3	76.7	88.2
42	NT 8711	97.3	96.7	120.0	108.0	105.5	74.6	65.0	70.0	61.8	72.5	68.8	89.0	89.8	90.3	85.0	60.0	108.0	64.0	83.7	83.3	103.7	75.0	83.3	81.7	85.4
43	JH 13249	97.3	131.7	137.5	137.3	126.0	104.7	82.9	93.3	69.9	110.0	92.2	119.0	102.7	123.3	81.7	81.7	114.3	74.8	99.6	75.0	147.0	88.3	85.0	113.3	101.7
44	SAMH-225	97.0	95.0	117.5	114.0	105.9	73.0	62.5	82.5	72.1	82.5	74.5	97.5	101.6	112.0	95.0	71.7	110.3	65.3	93.3	74.1	133.3	83.3	83.3	91.7	93.1
45	JH 13041	96.7	90.0	146.3	129.7	115.6	107.0	86.1	87.2	72.0	107.5	92.0	104.0	104.3	118.7	91.7	66.7	117.7	73.1	96.6	76.4	143.3	70.0	88.3	95.0	94.6
46	JH 12063	96.7	93.3	128.8	128.0	111.7	87.4	68.0	80.0	82.7	102.5	84.1	113.5	106.4	122.7	81.7	80.0	120.7	66.9	98.8	70.7	116.7	76.7	83.3	103.3	90.1
47	JH 13094	96.7	135.0	125.0	109.3	116.5	89.0	76.9	77.2	81.9	92.5	83.5	104.5	103.5	110.0	90.0	68.3	109.0	81.2	95.2	80.4	115.3	80.0	90.0	95.0	92.1
48	RMH-726	97.0	86.7	112.5	98.0	98.5	64.9	74.2	71.7	83.7	75.0	73.9	86.0	85.5	101.3	66.7	75.0	100.0	54.7	81.3	59.2	112.0	66.7	91.7	86.7	83.3
49	JH 13044	95.0	116.7	135.0	122.0	117.2	91.2	72.3	82.5	90.9	97.5	86.9	105.5	113.6	112.7	93.3	73.3	107.7	78.3	97.8	71.3	131.7	85.0	85.0	83.3	91.3
50	PMSW 4	96.7	105.0	131.3	109.7	110.6	69.2	69.2	79.5	78.5	77.5	74.8	116.5	92.1	108.3	73.3	76.7	104.7	67.4	91.3	90.5	110.3	80.0	78.3	83.3	88.5
51	PM 14104L	97.3	90.0	123.8	124.0	108.8	85.3	79.2	78.5	83.9	95.0	84.4	94.0	96.1	106.0	86.7	58.3	103.3	67.0	87.4	77.5	125.3	80.0	83.3	96.7	92.6
52	CP-555	97.3	98.3	120.0	115.7	107.8	83.1	59.1	69.3	81.2	82.5	75.0	95.0	96.2	107.7	73.3	71.7	103.0	61.3	86.9	72.5	107.0	80.0	90.0	86.7	87.2
53	JH 13183	96.7	98.3	136.3	124.0	113.8	83.3	85.2	91.3	62.5	107.5	86.0	111.0	111.3	124.0	103.3	78.3	103.3	77.4	101.2	78.4	138.3	81.7	88.3	103.3	98.0
54	DMRH1411	97.0	91.7	130.0	115.3	108.5	82.0	64.1	69.2	89.7	87.5	78.5	97.0	72.0	104.7	83.3	70.0	91.7	61.7	82.9	64.7	130.0	78.3	80.0	93.3	89.3
55	JH 12150	97.3	95.0	130.0	118.0	110.1	95.3	79.4	83.7	72.2	85.0	83.1	101.5	97.6	127.0	95.0	61.7	108.3	71.8	94.7	76.1	120.0	73.3	78.3	76.7	84.9
56	Gin 02	96.3	93.3	128.8	122.3	110.2	82.8	73.7	71.3	65.4	92.5	77.2	117.0	109.9	117.7	75.0	73.3	115.3	67.5	96.5	69.5	117.7	73.3	83.3	100.0	88.8
57	BH 412140	97.3	78.3	113.8	112.0	100.4	77.7	68.2	68.8	77.5	90.0	76.4	89.0	82.2	105.3	93.3	65.0	107.3	63.5	86.5	77.5	97.0	75.0	83.3	86.7	83.9
58	NT 6325	96.7	106.7	116.3	111.0	107.6	78.6	59.3	80.5	82.6	87.5	77.7	93.0	95.7	95.0	73.3	73.3	107.0	61.9	85.6	85.3	115.0	86.7	88.3	93.3	93.7
59	DMRH1308	96.3	93.3	120.0	106.0	103.9	65.3	67.6	80.0	70.0	77.5	72.1	108.0	98.7	113.0	81.7	76.7	99.7	64.3	91.7	79.4	122.3	81.7	76.7	83.3	88.7
60	ADV 1190384	97.3	80.0	123.8	113.7	103.7	75.0	89.5	77.3	78.4	85.0	81.0	95.0	97.7	107.0	88.3	58.3	108.0	66.3	88.7	61.3	113.7	80.0	86.7	96.7	87.7
61	HT 51412373	97.3	88.3	121.3	96.3	100.8	68.6	78.5	75.7	64.1	85.0	74.4	106.0	93.7	104.3	76.7	66.7	96.0	56.6	85.7	73.9	138.3	81.7	77.3	80.0	90.2
62	SAFAL X-2	97.3	91.7	126.3	106.7	105.5	77.9	69.8	79.2	78.3	92.5	79.5	106.0	105.9	111.7	80.0	55.0	110.0	66.6	90.7	70.1	127.0	83.3	85.0	73.3	87.7
63	JH 13197	96.3	93.3	127.5	117.0	108.5	83.2	70.8	72.7	70.3	102.5	79.9	99.0	104.0	96.7	96.7	73.3	97.3	71.8	91.3	73.5	110.3	83.3	81.7	110.0	91.8
64	super 6768	97.3	91.7	117.5	106.7	103.3	82.4	79.4	77.7	70.5	82.5	78.5	100.0	97.3	110.7	83.3	58.3	102.0	64.5	88.0	70.8	118.3	83.3	81.7	95.0	89.8
65	JH 13278	97.7	105.0	142.5	127.0	118.0	97.6	63.5	79.2	79.3	107.5	85.4	113.5	117.8	120.3	76.7	68.3	114.0	72.4	97.6	82.3	123.3	76.7	85.0	110.0	95.5
66	IN 8570	96.3	91.7	130.0	118.3	109.1	87.2	81.1	76.2	70.0	82.5	79.4	108.5	96.5	116.0	83.3	60.0	111.3	75.7	93.1	75.4	123.7	83.3	85.0	80.0	89.5
67	GPMH-1111	97.0	61.7	125.0	96.3	95.0	93.9	63.9	66.7	66.2	107.5	79.6	103.0	87.1	95.7	81.7	68.3	93.0	57.6	83.8	93.8	115.3	78.3	83.3	103.3	94.8
68	JH 13248	97.7	120.0	130.0	132.7	120.1	93.6	73.2	95.3	72.0	107.5	88.3	130.0	116.1	129.0	98.3	71.7	115.7	75.2	105.1	85.7	103.7	80.0	76.7	98.3	88.9

Table No. 1 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm)																								
		ZN 2					ZN 3					ZN 4					ZN 5									
		KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean
69	SAMH-378	97.3	85.0	128.8	89.0	100.0	83.6	77.4	62.2	76.8	87.5	77.5	101.0	90.5	113.3	86.7	61.7	101.0	64.7	88.4	60.7	117.3	76.7	88.3	83.3	85.3
70	KH-2192	97.7	103.3	120.0	97.0	104.5	66.8	89.7	70.8	62.0	72.5	72.4	107.5	84.9	92.7	71.7	56.7	101.3	60.3	82.1	77.7	125.3	85.0	83.3	76.7	89.6
71	ADV 0990293	96.0	86.7	120.0	114.0	104.2	66.0	89.7	73.8	79.8	97.5	81.4	100.0	103.3	114.0	80.0	55.0	104.0	62.0	88.3	68.1	127.3	85.0	83.3	93.3	91.4
72	JH 13252	98.0	95.0	151.3	122.0	116.6	112.9	77.1	89.7	84.5	125.0	97.8	119.0	97.5	125.3	90.0	76.7	110.7	70.9	98.6	72.9	123.7	85.0	93.3	96.7	94.3
73	NMH 1605	96.3	73.3	137.5	119.3	106.6	83.9	72.2	75.7	72.3	82.5	77.3	113.0	111.3	116.7	91.7	66.7	105.0	70.3	96.4	72.2	120.3	83.3	81.7	91.7	89.8
74	GPMH-1101	97.3	98.3	126.3	112.0	108.5	93.7	89.7	87.3	76.4	82.5	85.9	95.5	97.3	111.0	111.7	70.0	99.7	66.3	93.1	73.1	116.7	81.7	93.3	85.0	90.0
75	PM 14101L	96.3	123.3	126.3	128.0	118.5	86.6	60.1	89.5	76.0	105.0	83.5	117.0	102.0	128.7	105.0	65.0	112.0	72.2	100.3	65.7	147.0	83.3	71.7	105.0	94.5
76	CMH12-667	96.7	100.0	128.8	107.7	108.3	78.3	67.1	71.0	76.4	82.5	75.0	104.5	104.9	116.0	86.7	76.7	104.0	67.4	94.3	71.9	118.3	80.0	86.7	86.7	88.7
77	BH 412141	97.7	103.3	115.0	113.0	107.3	76.6	82.2	80.5	72.4	85.0	79.3	103.0	98.8	114.7	90.0	85.0	105.3	65.3	94.6	73.4	123.3	78.3	78.3	105.0	91.7
78	Srikar 3033	96.3	108.3	116.3	104.7	106.4	72.6	75.9	67.7	73.2	75.0	72.9	95.5	90.9	111.0	80.0	65.0	110.0	57.7	87.1	66.3	118.3	76.7	78.3	103.3	88.6
79	JH 13282	97.3	103.3	135.0	102.7	109.6	98.0	75.3	83.7	83.8	105.0	89.1	107.5	101.1	122.0	98.3	78.3	109.7	72.0	98.4	71.8	145.7	88.3	90.0	100.0	99.2
80	IN 8903	95.0	36.7	138.8	121.7	98.0	98.3	77.4	93.3	74.7	137.5	96.2	105.0	93.3	110.0	93.3	66.7	106.7	77.1	93.1	73.5	160.0	76.7	88.3	108.3	101.4
81	GYH-0652	97.0	105.0	127.5	95.7	106.3	84.2	98.0	80.3	71.0	95.0	85.7	87.0	88.6	86.3	75.0	46.7	102.3	56.4	77.5	78.2	123.3	93.3	85.0	96.7	95.3
82	NMH 1008	67.7	80.0	111.3	99.3	89.6	78.9	62.5	60.7	65.4	75.0	68.5	78.5	91.3	89.3	71.7	61.7	94.7	59.1	78.0	79.3	110.0	80.0	76.7	76.7	84.5
83	GK-3124	96.7	95.0	127.5	116.7	109.0	82.0	70.1	76.5	82.8	90.0	80.3	102.5	95.5	120.0	88.3	66.7	102.7	63.9	91.4	81.5	125.7	93.3	91.7	96.7	97.8
84	ADV 0990296	97.7	101.7	116.3	102.0	104.4	86.9	75.8	66.0	75.4	72.5	75.3	86.0	98.3	96.7	80.0	63.3	102.7	63.5	84.3	74.5	128.7	80.0	88.3	86.7	91.6
85	CMH11-618	96.3	106.7	126.3	112.7	110.5	90.7	74.1	85.0	65.0	100.0	82.9	103.0	101.9	111.0	100.0	70.0	110.3	70.0	95.2	81.9	125.0	85.0	80.0	108.3	96.0
86	REH2013-5	96.0	88.3	117.5	95.0	99.2	77.0	68.7	70.7	79.0	80.0	75.1	96.5	87.7	100.7	70.0	51.7	101.0	67.2	82.1	71.3	103.0	88.3	88.3	86.7	87.5
87	DAS-MH-106	98.0	103.3	130.0	106.7	109.5	82.3	78.5	81.8	69.7	85.0	79.5	109.5	100.9	118.7	71.7	60.0	111.0	68.0	91.4	67.5	122.0	75.0	86.7	93.3	88.9
88	JH 13244	96.7	101.7	145.0	121.3	116.2	98.0	75.6	75.7	78.8	102.5	86.1	114.0	101.9	114.0	85.0	78.3	101.3	72.8	95.3	87.9	125.7	81.7	88.3	98.3	96.4
89	AMH-3436	97.0	120.0	121.3	105.0	110.8	76.3	67.6	70.3	61.1	92.5	73.6	98.5	73.7	109.0	76.7	68.3	101.0	74.8	86.0	84.5	129.3	70.0	80.0	88.3	90.4
90	IN 8603	97.0	140.0	148.8	113.0	124.7	78.3	87.9	85.2	74.8	110.0	87.2	101.5	107.3	113.3	100.0	86.7	101.7	74.8	97.9	62.9	133.7	80.0	76.7	83.3	87.3
91	JH 13230	97.7	96.7	135.0	126.3	113.9	87.1	68.7	73.3	87.8	97.5	82.9	110.5	99.0	119.0	100.0	65.0	99.3	70.9	94.8	74.0	135.0	83.3	83.3	90.0	93.1
92	DAS-MH-107	95.3	85.0	120.0	105.0	101.3	83.9	88.3	81.8	68.0	97.5	83.9	99.5	82.1	114.0	76.7	61.7	97.7	54.0	83.7	78.0	118.3	81.7	76.7	88.3	88.6
93	IAHM 2013-12	98.0	108.3	108.8	95.3	102.6	80.9	74.8	62.7	72.5	67.5	71.7	93.0	88.4	106.7	85.0	65.0	104.3	55.1	85.3	72.6	125.7	76.7	88.3	86.7	90.0
94	JH 12010	97.3	125.0	136.3	136.7	123.8	87.6	74.9	85.0	78.5	117.5	88.7	110.0	103.0	126.3	75.0	86.7	123.0	82.5	100.9	68.0	122.0	86.7	96.7	111.7	97.0
95	BH 412131	96.3	93.3	130.0	109.7	107.3	79.3	74.5	66.7	68.4	90.0	75.8	89.5	82.3	105.7	73.3	65.0	103.7	64.6	83.4	64.2	127.0	71.7	85.0	83.3	86.2
96	Super 1177	98.0	106.7	111.3	101.0	104.2	77.0	74.7	71.0	78.6	92.5	78.8	105.5	87.7	113.7	75.0	75.0	106.7	58.2	88.8	65.3	130.3	80.0	81.7	95.0	90.5
97	Super 777	96.0	100.0	130.0	100.3	106.6	71.0	78.5	76.7	64.3	97.5	77.6	93.5	93.5	98.3	85.0	65.0	104.0	60.9	85.8	69.4	97.3	75.0	81.7	88.3	82.3
98	GH-110145	96.0	83.3	116.3	102.3	99.5	68.3	77.9	74.3	77.7	67.5	73.1	105.0	90.1	97.7	80.0	71.7	100.7	61.0	86.6	80.9	128.7	76.7	80.0	83.3	89.9
99	JH 13045	96.7	103.3	137.5	132.3	117.5	90.6	85.3	85.8	70.8	95.0	85.5	131.0	105.9	138.3	83.3	78.3	130.0	91.8	108.4	65.3	143.3	76.7	78.3	101.7	93.1
100	JH 13037	97.3	123.3	143.8	113.7	119.5	98.4	85.6	85.2	81.6	102.5	90.7	110.0	118.8	123.3	103.3	70.0	108.7	76.7	101.6	62.7	125.0	83.3	76.7	91.7	87.9
101	MAH-974	97.3	111.7	120.0	112.0	110.3	73.1	82.3	60.7	64.4	90.0	74.1	103.0	94.4	102.3	80.0	63.3	104.0	62.9	87.1	76.9	115.3	86.7	88.3	93.3	92.1
102	BH 412096	97.0	121.7	116.3	117.0	113.0	84.7	75.1	82.8	76.4	92.5	82.3	100.5	101.4	114.3	78.3	65.0	95.0	71.6	89.5	67.8	113.3	85.0	81.7	91.7	87.9

Table No. 1 (Continued)

S.No. PEDIGREE	EAR HEIGHT(cm)																								
	ZN 2					ZN 3					ZN 4					ZN 5									
	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean
103 PRMH-189	97.7	100.0	126.3	114.7	109.6	77.3	79.1	71.0	63.8	82.5	74.7	94.0	93.1	110.3	85.0	60.0	101.7	61.2	86.5	67.5	122.0	76.7	86.7	93.3	89.2
104 IN 8902	97.3	95.0	128.8	114.3	108.9	67.7	81.3	90.8	68.3	100.0	81.6	109.0	102.6	112.3	105.0	68.3	101.0	71.9	95.7	70.3	135.3	80.0	88.3	85.0	91.8
105 IN 8602	97.3	98.3	132.5	119.3	111.9	83.0	89.3	76.5	62.8	85.0	79.3	102.5	99.2	109.7	66.7	83.3	94.3	42.2	85.4	64.5	123.3	90.0	83.3	86.7	89.6
106 REH2013-6	97.0	98.3	126.3	109.3	107.7	80.4	63.4	76.5	65.3	72.5	71.6	97.5	101.7	100.7	85.0	65.0	104.0	66.9	88.7	73.9	115.0	73.3	75.0	93.3	86.1
107 JH 13270	97.0	110.0	126.3	117.3	112.6	98.8	88.3	90.0	72.8	92.5	88.5	107.5	106.7	121.0	78.3	65.0	109.0	71.0	94.1	74.5	107.0	61.7	80.0	100.0	84.6
108 BH 412095	97.7	100.0	110.0	93.7	100.3	68.4	65.3	56.8	78.5	82.5	70.3	98.5	84.1	94.7	68.3	68.3	101.3	51.4	81.0	79.6	130.3	83.3	90.0	93.3	95.3
109 HKH423	97.0	70.0	120.0	98.3	96.3	82.9	68.5	61.7	72.0	75.0	72.0	96.0	95.2	93.3	90.0	55.0	113.0	56.1	85.5	63.3	108.7	78.3	88.3	78.3	83.4
110 Sonam -27	97.0	85.0	128.8	110.0	105.2	88.0	90.0	87.5	61.0	90.0	83.3	109.5	102.7	123.7	95.0	70.0	101.7	62.7	95.0	68.2	110.7	83.3	88.3	95.0	89.1
111 REH2013-2	95.0	68.3	127.5	100.3	97.8	77.7	88.8	83.2	76.8	72.5	79.8	100.5	85.7	99.0	75.0	66.7	115.3	60.3	86.1	74.2	109.0	68.3	85.0	78.3	83.0
112 JKM4023	97.7	110.0	131.3	115.3	113.6	96.0	74.3	84.2	66.7	92.5	82.7	91.5	86.2	123.3	83.3	61.7	97.7	71.9	87.9	78.9	118.7	83.3	86.7	80.0	89.5
113 AH 7005	95.7	71.7	133.8	117.3	104.6	89.0	88.9	79.0	74.3	97.5	85.7	102.5	88.1	113.3	50.0	68.3	92.7	70.3	83.6	66.5	127.7	76.7	85.0	88.3	88.8
114 CSM-1	96.7	101.7	122.5	120.7	110.4	83.0	70.3	67.8	68.6	77.5	73.5	98.5	96.7	107.3	78.3	83.3	107.3	59.9	90.2	92.7	104.0	80.0	71.7	90.0	87.7
115 CSM-2	97.3	81.7	121.3	112.7	103.2	70.8	78.7	72.0	79.3	87.5	77.7	97.0	89.4	86.0	75.0	75.0	103.7	65.5	84.5	79.3	104.0	78.3	80.0	86.7	85.7
CHECKS																									
116 PMH1	97.7	126.7	150.0	112.7	121.8	103.3	85.3	88.5	84.2	125.0	97.2	117.0	114.4	111.7	88.3	58.3	106.0	72.0	95.4	84.3	111.7	83.3	85.0	120.0	96.9
117 PMH3	97.3	115.0	135.0	124.3	117.9	82.7	89.7	84.3	79.3	112.5	89.7	112.0	108.3	119.3	90.0	68.3	119.0	74.8	98.8	85.5	142.0	78.3	88.3	91.7	97.2
118 BIO-9681	96.3	86.7	115.0	87.7	96.4	69.7	74.2	71.3	73.4	80.0	73.7	92.5	75.7	86.0	66.7	63.3	98.7	57.2	77.2	73.5	146.7	83.3	88.3	96.7	97.7
119 SeedTech 2324	96.7	113.3	117.5	116.7	111.0	97.5	73.6	76.2	86.4	87.5	84.2	100.5	81.3	112.7	85.0	68.3	103.0	68.9	88.5	58.3	105.0	68.3	91.7	105.0	85.7
120 HM11	97.3	83.3	128.8	109.3	104.7	83.5	76.1	78.7	80.4	85.0	80.7	104.5	92.6	107.0	73.3	61.7	100.0	67.5	86.7	82.7	127.0	83.3	91.7	83.3	93.6
Loc. Mean	93.9	97.9	126.2	112.5	107.6	83.1	75.0	77.6	73.7	90.8	80.1	101.5	96.9	109.7	83.3	67.8	105.5	66.4	90.2	74.4	122.1	80.0	83.6	91.2	90.3
C.D. (5%)	8.72	6.91	17.72	10.27	13.54	19.85	4.60	16.95	13.77	10.17	11.71	9.13	9.16	9.55	8.28	20.49	14.18	11.28	7.46	11.05	29.01	17.78	14.85	9.82	11.18
C.V. (%)	5.77	4.39	10.10	5.68	9.05	14.85	3.81	13.59	9.43	5.66	11.75	5.59	5.88	5.41	6.18	18.78	8.35	10.56	7.88	9.24	14.77	13.81	11.05	6.69	8.93
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	0.02	0.00	0.00	0.00	0.00	0.03	0.72	0.61	0.00	0.09

TABLE No. 2:

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BAJAURA, BARAPANI, KANGRA, UDHAMPUR, KANPUR, KARNAL, LUDHIANA, PANTNAGAR, BHARAI, BHUBANESHWAR, DHOLI, RANCHI, VARANASI, ARHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, VAGARAI, AMBIKAPUR, BANSAWARA, CHHINDWARA, GODHRA, UDAIPUR IN IVT TRIAL No. 62 (IVT-M) DURING KHARIF(2014)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																								
		BAJA								ZN 1								ZN 2								
		R		R		R		R	R		R		R		R		R	R		R		R		R		R
1	IASH 11C022	9013	32	7500	29	5850	78	6337	103	7175	52	9288	8	8495	87	9680	34	10016	91	9370	55	3302	122	6717	2	
2	CP.201	8510	57	7219	33	7661	37	6668	86	7515	30	9360	7	11221	6	9961	24	14239	9	11195	2	7122	10	4659	66	
3	Srikar 4689	9243	21	8869	8	5686	84	6279	107	7519	29	8248	55	5701	129	8443	73	11746	53	8534	98	3768	108	3995	99	
4	DMRM1402	8921	39	5341	79	7412	44	5902	114	6894	67	8975	15	8282	93	9717	32	13924	14	10225	16	6156	33	4281	88	
5	JH 13142	9308	20	6096	58	6993	54	7102	53	7375	40	7493	97	8484	88	8320	76	11120	68	8854	80	6130	34	3644	122	
6	HKH342	7102	101	3962	111	3459	129	7653	14	5544	121	7739	85	10057	20	6093	114	9088	114	8244	110	4417	83	4657	67	
7	PMH 2277	10427	2	5836	66	6481	64	7076	57	7455	32	6829	120	12686	2	10804	7	13810	15	11032	4	6856	19	5449	32	
8	DMRH1418	8027	76	8299	16	7682	36	7046	60	7763	21	8329	52	10659	12	7193	96	9183	110	8841	83	6567	25	3879	104	
9	HT 51412182	9398	18	7731	25	11791	2	7337	36	9064	2	6072	128	9282	54	11262	3	13284	20	9975	23	4591	79	4743	62	
10	JH 31607	8481	60	9424	2	7879	31	6195	110	7995	12	9000	12	7439	112	10308	15	10538	82	9321	59	5764	40	5841	17	
11	DH1413	6936	106	3418	119	4602	117	6710	83	5417	122	8503	39	9692	40	7573	87	9546	98	8828	85	5102	62	4508	73	
12	IAHM 2013-26	7525	96	5117	84	3431	130	5319	127	5348	123	8646	33	9718	35	7734	83	7099	128	8299	106	-	-	6049	9	
13	DAS-MH-307	7500	97	8660	11	8665	19	6725	82	7888	17	8379	47	7804	99	9657	36	14623	5	10116	19	4147	90	5699	22	
14	MMH 4-13	9347	19	4772	96	6613	61	6940	66	6918	65	8491	40	8290	92	8089	80	10935	72	8951	73	5566	51	4943	53	
15	NMH-3662	8522	54	6065	60	6484	63	5791	118	6715	77	9014	11	7716	103	7293	93	14094	12	9529	42	9080	2	3740	115	
16	JH 13117	9792	11	8689	10	4949	101	5943	112	7344	42	9285	9	7659	106	10217	18	9889	93	9262	61	7003	15	5494	30	
17	DH1401	8516	56	5999	61	7366	46	7097	54	7245	49	6462	124	10362	16	8025	81	10673	78	8881	77	5411	54	4462	77	
18	DAS-MH-306	8729	46	7543	28	10546	5	7589	16	8602	5	8187	60	9697	39	10557	12	12176	41	10154	17	6188	32	5895	13	
19	BH 412084	9788	12	9134	5	9482	11	6655	87	8765	4	6771	121	9899	27	8768	62	10458	86	8974	70	7220	8	5908	12	
20	DH1405	9026	31	4736	97	7082	51	6603	93	6862	71	7707	87	7058	117	10172	21	11134	67	9018	69	7929	4	4156	93	
21	EH-2235	8495	58	3551	117	5176	95	5919	113	5785	116	7938	73	8981	72	7390	90	9865	94	8544	97	6720	21	5338	38	
22	EH-2372	8990	34	5862	65	5827	79	7442	26	7030	56	7056	110	9247	59	9422	47	12034	48	9439	48	3858	101	4288	87	
23	CMH11-615	8161	68	7555	27	5646	87	7837	7	7300	44	8320	53	7691	105	9831	28	13532	18	9843	32	7983	3	5923	11	
24	TMMH 801	7881	84	5678	69	5079	98	6292	106	6232	97	8348	49	7218	114	10396	14	13009	24	9743	33	5711	41	5853	16	
25	Bio 719	9155	23	6870	42	9537	8	7623	15	8296	8	8382	46	9457	49	9333	52	12829	28	10000	22	3405	118	5760	20	
26	UDMH-115	7900	81	6135	54	7648	38	7891	4	7393	37	8090	67	9276	56	8469	72	11417	61	9313	60	3278	125	4586	70	
27	IAHM 2013-33	6058	119	5181	83	4839	104	7269	40	5837	113	7745	84	6953	121	6690	107	8793	116	7545	126	4820	70	4759	60	
28	JH 13246	9036	30	4546	100	6259	70	7583	17	6856	72	7975	72	9139	63	9650	38	13591	17	10089	20	4632	76	5153	44	

BR78

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																							
		ZN 1												ZN 2											
		BAJA	R	BARA	R	KANG	R	UDHA	R	MEAN	R	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R
29	CMH11-586	8918	40	6078	59	4417	121	6342	102	6439	85	7385	101	10096	18	9360	51	15324	2	10541	7	9613	1	5456	31
30	HT 51412373	8969	35	10145	1	6080	72	6677	84	7968	15	8097	66	9204	61	8603	67	9471	104	8844	82	5663	44	4747	61
31	QMH-1025	8613	49	9073	6	5159	96	5849	116	7173	53	9541	4	6993	119	11236	4	14554	7	10581	6	5942	37	3923	102
32	BH 412066	8562	52	4808	94	7370	45	7184	47	6981	62	9172	10	10607	13	10245	16	9477	102	9875	30	4593	78	4104	96
33	BH 412120	8522	55	2602	125	5435	90	7422	27	5995	105	7607	91	9901	26	6846	101	12994	25	9337	57	3708	111	4502	75
34	MMH 3-13	6845	108	4853	92	4966	99	7044	61	5927	107	8084	68	8686	78	6600	109	9503	99	8218	111	3287	123	4331	84
35	CMH11-584	6971	104	7773	24	8124	26	7747	8	7654	23	7777	81	8584	82	9424	46	12865	26	9663	38	4429	81	4866	57
36	BH 412063	9105	25	7160	35	6410	67	7371	30	7512	31	8181	61	11309	5	5728	120	8540	119	8440	103	7259	6	5891	14
37	KDMH 100-3	5360	125	5449	75	5109	97	7380	28	5824	114	7869	76	12842	1	10799	8	12410	36	10980	5	4263	88	5864	15
38	TI 8261	7594	94	9248	3	6179	71	7170	50	7548	28	7284	106	10968	10	11191	5	14860	4	11076	3	5059	63	4927	54
39	CMH11-593	8863	42	8148	18	8064	28	7080	56	8039	10	6698	123	9438	51	9618	39	12052	47	9452	46	7737	5	4569	71
40	CMH12-665	10445	1	5672	70	6460	65	6651	88	7307	43	6170	126	8455	90	9938	25	11304	63	8967	72	3784	105	4271	90
41	KH-545	9085	27	4189	107	7718	34	6777	74	6942	64	7548	96	9034	68	10123	22	11277	65	9496	43	6843	20	4265	91
42	QMH-1034	9799	10	8151	17	11397	3	6605	92	8988	3	7770	83	5962	126	9672	35	12141	42	8886	76	4768	73	3722	116
43	LMH 114	8587	51	7985	21	7333	48	7708	11	7903	16	7181	108	11195	9	9413	48	10914	73	9676	36	5248	58	4063	98
44	BH 412044	7880	85	5934	63	5522	89	6559	94	6474	84	6941	113	9926	24	6608	108	9364	107	8210	112	5880	38	5982	10
45	KMH12-25	9224	22	2908	122	6411	66	5031	129	5893	109	7686	88	8235	94	7238	95	10732	77	8473	102	3936	96	4348	81
46	UDMH-101	7832	87	3856	114	4925	103	6858	70	5868	112	7584	92	7256	113	9597	42	9498	100	8484	100	4986	64	3854	107
47	KH-517 Gold	6460	114	4976	90	7468	42	5472	126	6094	102	8330	51	9707	37	9313	53	10501	85	9463	45	3903	98	3790	111
48	HT 51412616	7769	90	8137	19	7952	29	7357	33	7804	20	7737	86	9328	53	10201	19	10509	84	9444	47	4305	85	4461	78
49	JH 13054	7829	88	6614	45	7856	32	7199	45	7375	41	8135	63	9268	57	6061	115	11886	51	8837	84	4286	86	4277	89
50	AWLH 1	9895	8	4339	104	4673	114	5531	124	6110	101	7826	78	5803	127	2491	130	11007	70	6782	130	4134	91	3792	110
51	DMRH1413	6728	111	1642	129	3798	127	7257	41	4856	128	7428	99	6812	123	6713	106	6399	130	6838	129	-	-	5301	41
52	JH 13139	3228	129	6105	57	7686	35	8039	3	6265	93	7671	89	6421	125	8712	63	10891	75	8424	104	6272	29	4150	94
53	EH-2380	8406	64	1628	130	6020	74	6750	77	5701	118	9503	6	9868	29	9521	44	9970	92	9715	34	3710	110	5307	40
54	JH 13224	7302	99	6621	44	7234	49	7742	9	7225	50	9743	2	8591	81	9206	55	13364	19	10226	15	5643	45	4728	64
55	JH 13121	9104	26	8657	12	8140	25	8163	1	8516	6	9818	1	6635	124	7272	94	12781	29	9126	64	5103	61	5425	33
56	JH 13204	7091	102	5310	82	6894	55	7677	12	6743	75	8824	20	7928	96	6900	99	11447	59	8775	89	4279	87	4068	97
57	BH 412064	7728	91	8403	15	4679	112	6639	89	6862	70	8807	22	9529	46	9867	27	9281	109	9371	54	3750	109	6463	4
58	JH 13215	7780	89	6427	49	7184	50	6817	72	7052	55	8126	64	11672	4	8303	77	10550	81	9663	37	4181	89	5634	25
59	MMH 6-13	8607	50	6162	53	7567	40	6747	78	7271	47	7055	111	8478	89	8599	68	12189	39	9080	68	6907	17	5365	35
60	PM 14107M	7907	80	5822	67	10605	4	7170	51	7876	18	7799	79	8511	86	6954	98	14098	11	9340	56	5414	53	3759	112
61	IAHM 2013-11	9903	6	2751	124	6662	60	7304	38	6655	79	8113	65	7645	107	8114	79	7948	123	7955	116	4672	74	5085	46

SI No PEDIGREE		GRAIN YIELD (kg/ha) AT 15% MOISTURE																							
		ZN 1												ZN 2											
		BAJA	R	BARA	R	KANG	R	UDHA	R	MEAN	R	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R
62	SHIATS MS2	6964	105	5488	73	6069	73	8126	2	6662	78	6387	125	10064	19	8427	74	10638	79	8879	78	4898	66	4405	79
63	DMRH1301	8475	61	4318	105	4716	110	6403	98	5978	106	8231	56	9924	25	9731	31	9703	97	9397	52	3833	103	5026	48
64	JH 13172	5835	122	7961	22	8094	27	7663	13	7388	38	9657	3	9494	47	6394	112	12056	46	9400	51	3340	120	5209	43
65	BH 412065	8446	62	7996	20	7638	39	5051	128	7283	46	7099	109	9278	55	9791	29	9289	108	8864	79	3899	99	3698	119
66	Zuari Nandiri	6166	117	7433	31	6818	56	7208	44	6906	66	9539	5	8704	77	7529	88	14360	8	10033	21	5832	39	3812	108
67	AWLH 2	9042	29	4788	95	6276	69	7179	48	6821	74	8837	19	7796	101	6236	113	11375	62	8561	95	3778	106	5151	45
68	IAHM 2013-97	7609	93	4352	103	5735	81	5781	119	5869	111	6850	118	7476	111	9379	49	9472	103	8294	107	4794	71	4832	58
69	LMH 314	7877	86	5377	78	7018	52	5717	121	6497	83	8575	37	9032	69	10712	10	12189	40	10127	18	3315	121	5761	19
70	JH 13119	8990	33	4866	91	4130	122	7043	62	6258	94	7559	93	8455	91	6746	105	12510	33	8817	86	7241	7	4907	55
71	HKH343	8829	44	2972	121	5688	83	7455	23	6236	96	8659	31	11699	3	5691	122	9714	96	8941	75	6284	28	3442	127
72	MMH 2-13	7890	83	5871	64	3603	128	7192	46	6139	100	6841	119	9721	34	9652	37	10590	80	9201	63	3257	126	4705	65
73	JH 13226	7126	100	4979	89	9053	17	6858	71	7004	59	5018	130	9645	42	8484	70	11941	50	8772	91	5104	60	6263	5
74	MMH 5-13	8035	75	5055	86	4964	100	7360	32	6354	89	6034	129	7712	104	8563	69	9431	106	7935	118	4129	92	3718	117
75	NMH-3612	6620	112	7143	37	6700	58	5606	123	6517	82	6149	127	10584	14	10191	20	12484	34	9852	31	4466	80	4525	72
76	HT 51412081	8306	67	7154	36	9508	10	7009	63	7994	13	7557	94	7924	97	9699	33	13125	22	9576	41	6911	16	3807	109
77	GPS 05	9607	15	4463	102	4086	124	7069	58	6306	92	7305	105	9940	23	7719	84	8660	118	8406	105	3881	100	4309	85
78	KF-105	6549	113	1804	128	3960	126	7842	5	5039	127	8861	18	7640	108	9526	43	12723	30	9687	35	5636	46	5796	18
79	IAHM 2013-9	8430	63	4686	98	4436	120	7449	24	6250	95	8713	26	8560	83	7609	86	10990	71	8968	71	5313	57	6088	8
80	DMRH1417	7571	95	3995	110	4606	116	6408	97	5645	119	7453	98	9210	60	8868	59	9717	95	8812	87	4013	93	5372	34
81	MMHQPM-6-12-13-Filler	5418	124	5326	81	5856	77	6942	65	5885	110	7224	107	7492	110	7843	82	12855	27	8854	81	4419	82	5711	21
82	HKH344	8959	37	4179	108	4498	119	6737	79	6093	103	8446	43	7786	102	7709	85	7424	127	7841	120	5403	55	3750	114
83	DH1415	5047	127	3501	118	5698	82	6255	108	5125	126	7870	75	8596	80	6407	111	10178	90	8263	109	6085	35	3930	101
84	DMRH1302	7939	79	6125	55	4733	109	7294	39	6523	81	8190	59	9709	36	6787	103	8441	120	8281	108	4879	68	3653	120
85	GK-3120	8370	66	5427	77	10224	6	7348	34	7842	19	6739	122	7801	100	9737	30	12099	45	9094	66	6449	27	5591	28
86	KMH-4811	8137	70	8978	7	5761	80	6778	73	7413	36	8404	45	8544	84	8865	60	15267	3	10270	12	5710	42	6155	6
87	GPS 01	9489	17	4285	106	5411	91	6309	105	6373	88	8370	48	9986	21	9170	57	8804	115	9083	67	3974	94	3447	126
88	CMH11-619	9064	28	7201	34	6494	62	7524	20	7571	27	8024	70	9453	50	6053	116	10384	88	8478	101	3445	117	3566	124
89	KDMH 100-8	8887	41	4109	109	4103	123	5707	122	5701	117	6935	115	7162	115	7352	91	9156	113	7651	124	3146	127	5609	26
90	BL 900	6826	109	6284	50	9157	14	5833	117	7025	57	7403	100	9734	33	7040	97	10901	74	8770	92	5232	59	4403	80
91	UDMH-114	8397	65	2252	126	5191	94	6727	81	5642	120	7993	71	9467	48	5348	124	7864	124	7668	123	3614	115	3755	113
92	AH-1323	4806	128	2079	127	4695	111	7490	21	4767	129	6937	114	6967	120	6751	104	8341	121	7249	127	3972	95	4740	63
93	VEH 14-2	5500	123	5689	68	9302	12	7485	22	6994	61	8608	36	8809	74	9981	23	6821	129	8555	96	7116	11	4464	76
94	JH 13164	8559	53	5429	76	9089	16	6670	85	7437	33	8420	44	9820	31	9239	54	12213	38	9923	29	5706	43	4208	92

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																							
		ZN 1												ZN 2											
		BAJA	R	BARA	R	KANG	R	UDHA	R	MEAN	R	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R
127	PMH4	8107	73	4979	88	8598	20	7841	6	7381	39	8673	30	8535	85	9188	56	11945	49	9585	40	4783	72	5592	27
128	HM9	5858	121	3797	115	4783	106	6346	101	5196	125	8513	38	9698	38	4330	128	9160	112	7925	119	4396	84	3898	103
129	HM10	7050	103	6125	56	4632	115	5849	115	5914	108	8991	13	6852	122	5981	117	10746	76	8142	113	3834	102	4506	74
130	BIO-9637	8108	72	7354	32	9135	15	7341	35	7985	14	8817	21	9942	22	6836	102	9498	101	8773	90	7107	12	4970	49
	Location Mean	8065		5886		6629		6843		6856		8005		8928		8378		11213		9131		5183		4754	
	C.D. (5%)	908		2414		734		766		1206		924		371		1331		2196		1205		770		517	
	C.V. (%)	7.01		25.51		6.89		6.96		-		7.18		2.58		11.43		12.18		-		9.46		6.77	
	F (Prob)	0		0		0		0		0		0		0		0		0		0		0		0	
	Plot Size	3.6		3.6		2.64		4.8		-		4.8		6		5.46		6		-		4.8		4.8	
	AGRONOMY DATA																								
	Sowing Date	23-06		26-06		19-06		15-07		-		26-07		27-06		27-06		25-06		-		1-07		20-08	
	Harvest Date	27-10		31-10		25-09		25-10		-		10-11		3-10		22-10		31-10		-		9-10		10-12	
	Irrigation Nos	3		-		-		-		-		2		5		5		1		-		-		-	
	Fertilizer Applied N	120		80		120		120		-		120		150		125		120		-		120		120	
	Fertilizer Applied P	60		60		60		60		-		60		60		60		60		-		60		60	
	Fertilizer Applied K	40		40		40		40		-		50		60		30		40		-		40		60	

TABLE No. 2: (CONT...)

Sl No	PEDIGREE	ZN 3																				ZN 4			
		DHOL	R	RANC	R	VARA	R	MEAN	R	ARBH	R	COIM	R	HYDE	R	KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R
1	IASH 11C022	7169	73	6171	13	7826	57	6237	38	11876	7	11607	32	11734	14	9179	27	5398	46	10659	25	3107	108	9080	20
2	CP.201	6450	124	7748	1	9272	12	7050	5	11390	14	8923	94	13216	3	8756	45	5768	34	10668	24	6806	5	9361	14
3	Srikar 4689	7187	70	5356	51	7894	53	5640	93	10647	25	10029	70	11509	19	8247	56	4923	71	11109	18	3018	113	8497	45
4	DMRM1402	6431	125	5656	34	7130	79	5931	68	10089	47	9201	89	11398	23	9293	24	3803	112	10230	39	3943	70	8280	57
5	JH 13142	6704	113	5324	54	6827	89	5726	86	10569	28	10374	60	10416	52	7950	68	4557	88	10089	43	5006	43	8423	49
6	HKH342	7573	37	4569	92	5467	123	5336	114	6674	114	9420	86	5749	126	7596	80	2695	127	8783	87	2463	119	6197	120
7	PMH 2277	7268	64	5724	29	9480	8	6955	7	11795	9	14975	2	13716	1	10778	4	4008	107	10621	26	4622	54	10073	2
8	DMRH1418	7363	54	4897	80	6723	96	5886	73	8911	81	12756	18	9755	68	7695	77	5546	41	9102	82	6450	10	8602	41
9	HT 51412182	8737	1	5183	60	9568	5	6564	20	12468	3	12769	17	12296	6	9986	9	5463	42	12077	2	5510	24	10081	1
10	JH 31607	7907	14	4571	91	6333	108	6083	52	11049	19	8073	112	10634	43	6154	120	5423	45	8842	85	3921	71	7728	82
11	DH1413	7108	83	5049	71	7655	63	5884	75	7534	104	8691	100	8853	92	3934	130	4247	96	8148	99	5890	20	6757	108
12	IAHM 2013-26	7152	75	3428	126	8876	21	6376	28	6536	116	8599	103	9292	82	6991	104	5710	38	7872	105	3663	85	6952	106
13	DAS-MH-307	7689	24	5605	39	10158	2	6660	15	8510	85	11633	31	9122	86	8934	37	5605	40	9379	71	5001	44	8312	55
14	MMH 4-13	7857	15	5357	50	6811	90	6107	48	10229	39	11007	44	9364	80	8784	42	3640	118	7761	106	5414	28	8028	71
15	NMH-3662	8110	8	4388	101	8281	38	6720	14	12905	1	14374	4	10791	35	12022	1	5453	43	9764	56	1978	128	9612	10
16	JH 13117	7299	61	5670	32	7000	83	6493	24	9549	57	10012	71	12050	10	9035	33	4562	86	8528	92	4558	59	8328	53
17	DH1401	7109	82	5345	52	7327	72	5931	69	8588	83	10924	48	8696	94	6870	108	4395	93	9518	66	5373	29	7766	80
18	DAS-MH-306	8004	11	5790	24	10463	1	7268	2	10091	46	9806	78	6534	117	11968	2	5141	60	10253	37	5297	32	8441	47
19	BH 412084	6243	130	7060	4	8596	30	7005	6	9502	63	11315	38	9428	78	9141	28	5092	62	9588	64	7879	2	8849	29
20	DH1405	7710	19	6959	5	5968	116	6544	23	10220	40	12775	16	11062	30	8513	51	4553	90	9123	81	5061	40	8758	34
21	EH-2235	7583	35	4580	90	6601	100	6164	43	8952	80	9427	85	9022	89	8037	61	4067	104	7755	107	1841	130	7014	105
22	EH-2372	7636	28	5004	73	7179	77	5593	98	7522	106	9538	84	10947	32	7719	76	4275	95	9910	48	3232	105	7592	85
23	CMH11-615	6935	105	6048	15	9025	18	7183	4	10404	32	13506	8	12926	4	10236	8	5937	28	9803	52	5051	41	9695	7
24	TMMH 801	7342	57	5608	38	9374	9	6777	10	7754	97	10873	49	8935	91	9970	10	5969	26	11086	19	3012	114	8228	62
25	Bio 719	7004	97	5725	28	9345	11	6248	35	10558	29	10609	56	10579	49	9008	34	5800	31	11751	8	4366	62	8953	27
26	UDMH-115	7143	76	5278	57	7377	69	5532	102	8036	91	8223	108	8579	95	7082	102	6549	12	9333	72	5164	35	7566	88
27	IAHM 2013-33	7007	96	4695	85	7228	76	5702	88	7993	93	9417	87	9401	79	6828	109	4173	98	8837	86	3083	109	7105	99
28	JH 13246	7009	94	5759	26	6243	110	5759	85	9264	71	8918	95	8772	93	8022	62	5032	66	9149	79	3890	73	7578	87

SI No	PEDIGREE	ZN 3																				ZN 4			
		DHOL	R	RANC	R	VARA	R	MEAN	R	ARBH	R	COIM	R	HYDE	R	KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R
29	CMH11-586	7180	71	5836	22	8072	44	7231	3	9049	77	14632	3	10648	42	8772	43	4154	99	9548	65	6109	14	8987	25
30	HT 51412373	6852	108	6205	12	7718	60	6237	39	10809	24	10843	50	11444	21	7992	67	4807	73	10862	20	3741	78	8642	39
31	QMH-1025	8260	4	5785	25	9347	10	6651	16	11427	13	12172	20	12252	8	9288	25	6172	20	10454	31	7941	1	9958	3
32	BH 412066	6964	102	4935	79	9102	17	5940	63	9298	70	11403	35	11152	29	9327	21	5729	36	9500	67	3030	111	8491	46
33	BH 412120	7347	56	5134	65	9776	4	6093	50	10209	42	11006	45	10572	50	7277	93	4594	85	8946	84	3174	106	7968	73
34	MMH 3-13	6833	109	5214	59	5800	118	5093	122	5078	127	6767	126	4102	130	6112	121	5254	55	6521	124	2017	126	5122	128
35	CMH11-584	6413	126	3935	117	8446	33	5618	96	9844	52	13330	11	10977	31	7764	74	8015	1	9687	58	6447	11	9438	13
36	BH 412063	7632	29	4261	106	6948	86	6398	27	10372	34	11391	37	9135	85	7923	69	3812	110	8388	95	3650	88	7810	78
37	KDMH 100-3	7244	65	5564	41	7503	66	6088	51	7179	108	10063	69	9109	87	7548	82	5376	49	7906	103	3478	93	7237	95
38	TI 8261	6603	121	5573	40	9560	6	6344	31	10578	27	11836	26	11631	17	10767	5	6906	10	11472	14	5501	25	9813	6
39	CMH11-593	7503	43	5336	53	9494	7	6928	8	12287	4	12063	22	11490	20	9416	19	5017	67	10444	32	3314	101	9147	19
40	CMH12-665	7007	95	5803	23	8640	28	5901	71	9177	72	11741	27	10732	37	7470	86	5623	39	10422	34	3872	74	8434	48
41	KH-545	7135	77	3740	118	7692	61	5935	64	9302	69	10986	47	9697	72	7788	73	5326	52	10068	44	3063	110	8033	70
42	QMH-1034	7084	86	6417	9	8308	37	6060	55	10171	44	11449	34	10244	57	9772	14	4125	101	9598	63	5213	34	8653	38
43	LMH 114	7269	63	4711	83	7967	48	5852	79	10199	43	10294	62	10095	60	8615	50	5360	51	10224	40	5074	39	8552	43
44	BH 412044	7911	13	4984	74	7288	74	6409	26	10250	37	8979	93	10163	58	8971	36	2334	130	12040	3	4581	57	8188	63
45	KMH12-25	7595	34	4162	108	7660	62	5540	101	6389	117	8624	102	7330	111	5781	124	4660	79	7601	111	5981	15	6624	113
46	UDMH-101	8430	3	5679	31	5209	127	5632	94	6545	115	6788	125	7258	113	4744	127	4618	82	6669	123	2168	122	5541	126
47	KH-517 Gold	6949	104	5477	45	8200	39	5664	91	9975	49	7868	114	10705	38	8341	55	3804	111	7407	113	6388	12	7784	79
48	HT 51412616	7010	92	5509	44	7093	80	5676	90	10292	36	10429	59	10665	41	10719	6	5299	53	12014	5	5352	30	9253	17
49	JH 13054	6878	106	6262	10	8335	36	6008	59	10117	45	11680	28	11185	27	8916	39	6145	21	11749	9	5013	42	9258	16
50	AWLH 1	7707	21	5299	55	5685	121	5323	115	7578	102	8145	110	6085	121	6196	118	3853	109	8075	100	6623	8	6651	111
51	DMRH1413	7392	51	3127	129	6011	115	5458	106	3174	130	4202	130	5111	128	4004	129	3401	122	5897	128	1848	129	3948	130
52	JH 13139	7158	74	5876	20	6366	106	5964	62	10233	38	10159	66	9711	70	7173	98	3756	114	9406	70	3858	75	7756	81
53	EH-2380	6685	115	5008	72	7061	81	5554	100	7745	98	7608	118	10788	36	9197	26	3002	126	6861	119	2258	121	6780	107
54	JH 13224	7302	60	5420	47	8103	42	6239	37	9414	66	11144	42	9994	63	9621	15	5922	30	11434	16	2477	118	8572	42
55	JH 13121	7220	69	7081	3	7962	51	6558	21	9379	68	9920	75	10583	48	7751	75	6346	16	8978	83	3545	89	8072	67
56	JH 13204	7064	87	5633	35	7871	54	5783	84	8502	86	7797	116	9964	65	6756	111	6989	9	9424	69	3654	86	7584	86
57	BH 412064	6996	99	4664	87	7348	71	5844	80	10449	31	8807	97	11261	25	8471	52	7402	5	11709	10	3270	103	8767	33
58	JH 13215	7643	26	4968	78	6763	94	5838	81	11194	18	9087	92	12106	9	9334	20	6405	15	11458	15	3670	83	9036	24
59	MMH 6-13	6470	122	5967	18	6439	104	6230	40	9665	55	10226	63	7851	107	7091	101	4230	97	9608	61	5129	37	7686	84
60	PM 14107M	7438	46	5127	66	8884	20	6124	46	10361	35	10658	54	11868	13	8766	44	6301	17	11674	11	6506	9	9448	12
61	IAHM 2013-11	7135	78	4132	110	6046	113	5414	109	5375	126	8295	106	5030	129	6178	119	4932	70	10481	30	4746	49	6434	115

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SI No	PEDIGREE	ZN 3																				ZN 4			
		DHOL	R	RANC	R	VARA	R	MEAN	R	ARBH	R	COIM	R	HYDE	R	KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R
62	SHIATS MS2	7501	44	4722	82	6603	99	5626	95	8217	89	7801	115	8297	98	7185	96	3150	125	9141	80	3028	112	6688	110
63	DMRH1301	6654	118	4539	94	6955	85	5401	110	7857	96	10085	68	7992	102	7182	97	2684	128	9276	73	5552	22	7232	96
64	JH 13172	6998	98	4278	105	9176	15	5800	83	9638	56	9931	74	8981	90	8898	40	6545	13	9891	49	3902	72	8255	59
65	BH 412065	7803	16	4504	97	5380	125	5057	126	9475	64	10456	58	9675	75	7150	99	5713	37	9769	55	4178	65	8060	68
66	Zuari Nandiri	7694	23	6514	8	7836	56	6338	32	10601	26	7897	113	12018	11	10860	3	4760	77	11474	13	6928	4	9220	18
67	AWLH 2	7042	89	4699	84	6439	103	5422	108	5665	123	9986	72	7249	114	7873	70	4106	102	8606	89	5978	16	7066	102
68	IAHM 2013-97	7537	40	2832	130	5383	124	5076	124	9507	62	7757	117	7316	112	7020	103	4933	69	9262	74	5291	33	7298	94
69	LMH 314	7328	58	5613	37	9226	14	6248	36	9714	54	11400	36	10609	46	7471	85	5383	47	9166	78	4084	67	8261	58
70	JH 13119	7515	42	5995	17	8072	45	6746	12	11266	17	8236	107	9456	77	8004	65	4779	75	10376	35	5518	23	8233	61
71	HKH343	7580	36	5110	69	6032	114	5690	89	7622	101	8100	111	7935	104	6408	113	6300	18	6753	122	4020	69	6734	109
72	MMH 2-13	7472	45	4567	93	6212	112	5243	119	6036	121	8220	109	6517	119	6893	107	5930	29	6768	121	3689	82	6293	118
73	JH 13226	8047	9	5950	19	8369	35	6747	11	9070	76	8448	105	9930	66	7460	87	7258	6	9233	75	3281	102	7811	77
74	MMH 5-13	7407	49	5091	70	6778	92	5424	107	6377	118	8755	99	6057	123	6918	105	4053	106	6384	125	3119	107	5952	124
75	NMH-3612	6703	114	5564	42	8156	40	5883	76	11007	22	9737	80	10926	33	7862	71	5768	33	10301	36	2896	115	8357	51
76	HT 51412081	7358	55	5394	49	8790	25	6452	25	10393	33	13593	6	13290	2	7677	79	3299	124	10239	38	2164	123	8665	36
77	GPS 05	7104	84	4439	99	5769	119	5100	121	8008	92	7373	121	7575	109	7550	81	5945	27	9772	54	4042	68	7181	98
78	KF-105	7549	38	5613	36	7041	82	6327	33	5649	124	9882	77	6052	124	8230	57	7622	3	7115	115	4619	55	7024	103
79	IAHM 2013-9	8244	5	5742	27	7450	67	6567	19	9541	60	8506	104	9919	67	8696	46	4522	92	8200	97	3535	90	7560	89
80	DMRH1417	7686	25	3486	123	6782	91	5468	105	8106	90	9119	91	9698	71	8179	58	3662	117	7478	112	5479	27	7389	92
81	MMHQPM-6-12-13-Filler	7011	91	5288	56	6752	95	5836	82	9892	51	9939	73	10423	51	6219	116	4703	78	8008	101	3714	81	7557	90
82	HKH344	6250	129	4011	115	7965	50	5476	104	6971	110	11032	43	6656	116	9305	23	4772	76	8406	94	1995	127	7020	104
83	DH1415	7023	90	6018	16	6609	98	5933	67	6361	119	11593	33	9142	84	6756	110	4981	68	6855	120	4680	51	7195	97
84	DMRH1302	6861	107	3190	128	7638	64	5244	118	8624	82	9725	82	8483	96	7825	72	4641	80	8531	91	3652	87	7355	93
85	GK-3120	8431	2	7208	2	8806	22	7297	1	11997	6	12139	21	9719	69	9917	12	4144	100	11348	17	5925	18	9313	15
86	KMH-4811	7127	79	4677	86	9116	16	6557	22	11298	16	13123	12	10289	55	7485	84	3703	115	12037	4	4849	46	8969	26
87	GPS 01	6970	101	6823	6	8074	43	5858	78	7692	99	12673	19	11655	16	9096	29	4060	105	8503	93	6644	7	8617	40
88	CMH11-619	6279	128	4102	112	8641	27	5207	120	9038	78	11854	24	10621	44	8848	41	5236	56	10483	28	5145	36	8746	35
89	KDMH 100-8	8044	10	4300	103	5323	126	5284	116	7527	105	6826	124	6518	118	8434	53	5158	59	7079	116	2106	124	6235	119
90	BL 900	7279	62	3940	116	8615	29	5894	72	12583	2	10741	52	11960	12	9052	31	5760	35	11490	12	5931	17	9645	9
91	UDMH-114	7307	59	3283	127	3483	130	4288	130	5780	122	4906	129	5934	125	4739	128	2620	129	6027	127	3391	97	4771	129
92	AH-1323	8200	6	3456	124	5875	117	5249	117	4550	129	7059	123	6074	122	6305	115	3940	108	4632	129	4362	63	5275	127
93	VEH 14-2	6604	120	4189	107	7300	73	5935	65	9120	73	10705	53	9622	76	8990	35	3422	120	10712	23	5915	19	8355	52
94	JH 13164	7709	20	4297	104	8791	24	6142	44	8975	79	9737	81	11363	24	7191	95	3564	119	9812	51	4595	56	7891	75

SI No	PEDIGREE	ZN 3																				ZN 4			
		DHOL	R	RANC	R	VARA	R	MEAN	R	ARBH	R	COIM	R	HYDE	R	KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R
95	PM 14108M	7925	12	5167	62	7955	52	6361	30	9543	59	13372	10	11243	26	9065	30	4362	94	9667	59	2508	117	8537	44
96	DMRH1410	7009	93	5719	30	6997	84	6039	56	9100	74	9775	79	10002	62	8111	59	3406	121	10222	41	4460	61	7868	76
97	TMMH 826	7392	50	5161	64	8472	32	6126	45	9393	67	13428	9	10108	59	8006	64	6033	23	10138	42	4573	58	8811	32
98	IN 8401	6680	116	4417	100	7357	70	6015	58	11641	10	12916	13	10672	39	9836	13	5443	44	9658	60	3248	104	9059	21
99	HT 51412607	7238	66	6235	11	9990	3	6070	53	11019	21	10557	57	10338	53	8681	47	7470	4	11886	6	3371	99	9046	22
100	JKMH 4848	7741	18	4969	77	8140	41	6744	13	11036	20	14147	5	12280	7	9038	32	7732	2	9886	50	3726	79	9692	8
101	DH1411	6816	110	3699	119	8480	31	5651	92	11474	12	10771	51	10605	47	9577	16	3679	116	9913	47	4626	53	8664	37
102	SMH-3901	7179	72	5165	63	8799	23	6005	60	9545	58	16185	1	9972	64	9417	18	6561	11	10009	45	7325	3	9859	4
103	LMH 414	7366	53	4139	109	6654	97	5379	112	7892	94	7529	120	8365	97	5898	122	4638	81	7733	108	3781	77	6548	114
104	REH2013-1	6469	123	4516	95	5628	122	4631	129	5616	125	6004	128	8270	99	7194	94	5982	25	7198	114	2568	116	6119	122
105	DMRH1416	6964	103	4510	96	6879	88	5714	87	9917	50	11192	41	9143	83	8403	54	4560	87	9793	53	4684	50	8242	60
106	JH 13122	7119	80	4354	102	7861	55	6094	49	10068	48	8913	96	9677	74	6899	106	7006	8	9947	46	4142	66	8093	66
107	ZMH-999	7771	17	5394	48	8067	46	6123	47	11588	11	13547	7	10006	61	8054	60	6105	22	10482	29	3475	94	9037	23
108	REH2013-3	6645	119	3643	122	6767	93	4912	127	7249	107	10121	67	7976	103	7414	89	5382	48	9177	76	2404	120	7103	100
109	JH 13114	6771	111	6111	14	6543	101	6065	54	10894	23	11679	29	10612	45	7311	91	4533	91	8542	90	4626	52	8314	54
110	BH 412067	7696	22	4451	98	6899	87	5926	70	6762	113	9899	76	5740	127	7326	90	4607	84	6875	118	2095	125	6187	121
111	JH 31605	7625	32	4051	113	7724	59	5608	97	11333	15	12802	15	12377	5	10656	7	5296	54	10723	22	5809	21	9857	5
112	PM 14106M	7533	41	5114	68	8419	34	6372	29	11849	8	11261	39	11586	18	7436	88	4831	72	10490	27	4325	64	8825	30
113	DH1403	7384	52	5455	46	6253	109	6205	42	7672	100	10351	61	11659	15	9499	17	5220	57	8191	98	3724	80	8045	69
114	DMRH1412	7630	30	5659	33	7628	65	6926	9	6781	112	7567	119	7007	115	5255	126	6032	24	7032	117	4822	47	6357	117
115	DMRH1308	7621	33	5274	58	9261	13	6294	34	12067	5	11674	30	10301	54	7998	66	6268	19	10423	33	3803	76	8933	28
116	LMH 214	7220	68	4048	114	6225	111	5399	111	6806	111	9205	88	7920	105	7536	83	5082	63	9753	57	3385	98	7098	101
117	Proline 786	6392	127	4655	88	7383	68	5874	77	9509	61	11851	25	9695	73	8919	38	5104	61	7604	110	4474	60	8165	64
118	BL 897	8123	7	4646	89	7967	49	6030	57	10210	41	12893	14	11420	22	9939	11	5161	58	10855	21	6325	13	9543	11
119	REH2013-4	7117	81	4124	111	4166	129	4719	128	4851	128	6309	127	7479	110	5599	125	5075	64	8284	96	3346	100	5849	125
120	DMRH- 12-110	6728	112	5172	61	7794	58	5935	66	10470	30	11244	40	11172	28	8668	49	4613	83	-	-	6771	6	8823	31
121	QMH-1015	6657	117	5855	21	8926	19	6601	17	8559	84	10628	55	7876	106	8016	63	5041	65	11795	7	3664	84	7940	74
122	DH1429	7543	39	5546	43	6485	102	5366	113	8457	87	10216	65	8221	100	7150	100	3311	123	9171	77	5490	26	7431	91
123	EH-2381	6989	100	4980	75	8014	47	5885	74	9722	53	11970	23	9346	81	7694	78	4555	89	9443	68	3447	96	8025	72
124	AH-1322	7630	31	3447	125	4699	128	5502	103	6978	109	8781	98	7622	108	5809	123	3764	113	6347	126	3452	95	6107	123
125	BH 412062	7435	47	4977	76	6398	105	5990	61	8300	88	10992	46	10666	40	9316	22	6460	14	7884	104	3484	92	8157	65
126	RMH 796	7414	48	5117	67	7271	75	5582	99	9076	75	10221	64	10263	56	6738	112	4789	74	12213	1	4758	48	8294	56
	CHECKS																								

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SI No	PEDIGREE	ZN 3																						ZN 4			
		DHOL	R	RANC	R	VARA	R	MEAN	R	ARBH	R	COIM	R	HYDE	R	KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R		
127	PMH4	7233	67	6695	7	8686	26	6598	18	9425	65	9124	90	10830	34	8673	48	7159	7	8748	88	4970	45	8418	50		
128	HM9	7637	27	3657	121	5747	120	5067	125	6340	120	8680	101	6198	120	6378	114	5774	32	7721	109	5335	31	6632	112		
129	HM10	7059	88	3687	120	6360	107	5089	123	7577	103	7293	122	8155	101	6218	117	4079	103	7950	102	3489	91	6395	116		
130	BIO-9637	7088	85	4723	81	7163	78	6210	41	7871	95	9576	83	9083	88	7292	92	5373	50	9605	62	5125	38	7704	83		
Location Mean		7278		5072		7509		5961		9092		10217		9596		8040		5039		9267		4332		7950			
C.D. (5%)		1154		1431		1218		1018		2019		705		1270		784		1395		738		1011		1132			
C.V. (%)		9.86		17.55		10.08		-		13.81		4.29		8.23		6.07		17.22		4.95		14.52		-			
F (Prob)		0.016		0		0		-		0		0		0		0		0		0		0		-			
Plot Size		6		5.6		4.8		-		4.8		4.8		6		6		6		5.6		4.8		-			
AGRONOMY DATA																											
Sowing Date		10-07		10-07		11-07		-		14-07		5-07		9-07		28-06		20-07		26-07		14-07		-			
Harvest Date		23-10		26-10		20-10		-		7-11		3-11		29-10		24-10		26-11		12-12		17-11		-			
Irrigation Nos		2		-		1		-		8		9		4		-		-		7		9		-			
Fertilizer Applied N		120		120		120		-		150		150		200		200		120		150		150		-			
Fertilizer Applied P		60		60		60		-		75		75		60		60		60		75		75		-			
Fertilizer Applied K		40		40		40		-		37.5		75		50		50		40		40		75		-			

TABLE No. 2:

(CONT...)

Sl No	PEDIGREE	AMBI		BANS		CHHI		GODH		UDAI		ZN 5 MEAN		OV'L MEAN	
		R		R		R		R		R		R		R	
1	IASH 11C022	10111	5	3993	92	4001	122	4239	70	1995	117	4868	83	7411	45
2	CP.201	8168	43	4151	77	5058	76	3859	84	3639	84	4975	78	8020	5
3	Srikar 4689	7220	73	3906	99	5219	68	2926	103	4071	69	4668	97	7010	74
4	DMRM1402	7610	59	4358	57	4947	83	4042	77	4630	49	5117	63	7267	53
5	JH 13142	8335	35	4976	13	4834	84	4441	63	5436	29	5605	30	7221	58
6	HKH342	6111	106	3260	125	6389	12	1998	126	2415	110	4034	124	5816	121
7	PMH 2277	7774	54	4232	69	4040	121	4514	59	2470	108	4606	100	8091	3
8	DMRH1418	9445	14	4685	33	4495	105	6714	7	2797	95	5627	29	7368	49
9	HT 51412182	8892	23	4623	37	4554	102	6808	6	5432	31	6062	9	8394	1
10	JH 31607	7779	53	4391	56	5075	75	3898	83	6057	12	5440	37	7239	55
11	DH1413	6669	92	4593	40	3274	129	5325	39	4088	68	4790	87	6306	106
12	IAHM 2013-26	6168	104	4092	81	5333	58	2759	108	1946	119	4059	123	6211	109
13	DAS-MH-307	10056	6	4727	29	4472	108	2994	102	1527	125	4755	90	7491	38
14	MMH 4-13	7112	77	4746	27	5827	32	3716	87	2479	107	4776	89	6964	76
15	NMH-3662	5833	114	3954	94	4708	94	4606	54	4307	61	4682	94	7571	30
16	JH 13117	7334	65	8804	1	5324	59	6377	13	5815	21	6731	3	7633	26
17	DH1401	9613	10	4086	83	5238	65	4140	73	5866	20	5789	23	7099	70
18	DAS-MH-306	9887	8	4877	17	5740	36	4790	46	667	130	5192	58	7857	11
19	BH 412084	9725	9	4227	70	5667	40	6493	11	901	129	5403	42	7798	14
20	DH1405	8277	39	4747	26	4643	99	7352	3	5666	26	6137	7	7529	35
21	EH-2235	5890	112	4322	60	4694	95	2411	119	3833	79	4230	117	6336	104
22	EH-2372	7332	66	4532	44	5011	78	3328	95	5288	33	5098	65	6899	82
23	CMH11-615	8002	46	4904	16	4683	96	6518	9	4475	52	5716	25	8037	4
24	TMMH 801	7276	71	4063	86	5544	47	4504	61	2645	100	4806	86	7177	62
25	Bio 719	8556	33	3233	126	5378	54	4737	49	3323	91	5046	70	7693	20
26	UDMH-115	6944	81	5051	9	3886	123	2554	114	3918	75	4471	106	6792	88
27	IAHM 2013-33	5610	119	4409	53	5253	64	4122	74	3636	85	4606	99	6192	111
28	JH 13246	7278	69	4583	42	5946	24	4339	66	4945	42	5418	39	7069	71

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SI No	PEDIGREE											ZN 5		OVL	
		AMBI	R	BANS	R	CHHI	R	GODH	R	UDAI	R	MEAN	R	MEAN	R
29	CMH11-586	9056	22	4623	36	4414	109	3475	91	2813	94	4876	81	7655	23
30	HT 51412373	6889	83	4718	30	5384	53	5548	30	4612	51	5430	38	7443	42
31	QMH-1025	8725	26	4295	61	5207	69	2717	110	4974	40	5184	59	7996	8
32	BH 412066	6610	93	3936	96	4326	112	8735	1	5690	24	5859	18	7434	43
33	BH 412120	5831	115	4088	82	5925	26	3907	82	5277	34	5006	73	6904	81
34	MMH 3-13	6389	99	3995	91	5051	77	5943	20	1292	127	4534	104	5623	126
35	CMH11-584	8280	38	4443	50	6369	13	3945	81	2152	114	5038	72	7544	34
36	BH 412063	6942	82	3441	120	3429	127	5486	32	2265	113	4313	113	6881	85
37	KDMH 100-3	6000	110	4685	32	6463	8	3450	92	5433	30	5206	56	6974	75
38	TI 8261	9279	15	5440	6	5667	39	2769	107	1759	123	4983	76	7993	9
39	CMH11-593	11943	1	4478	49	6062	19	7140	5	4150	66	6755	2	8096	2
40	CMH12-665	8666	30	3854	101	4730	91	3953	80	4221	63	5085	66	7162	64
41	KH-545	7225	72	4402	55	4730	90	1795	127	3249	92	4280	115	6922	78
42	QMH-1034	9498	13	4016	89	5136	71	2903	104	3811	80	5073	67	7509	37
43	LMH 114	7611	58	4870	18	4652	98	4664	52	4617	50	5283	50	7434	44
44	BH 412044	6947	80	4530	45	5227	66	4912	45	2763	96	4876	82	6899	83
45	KMH12-25	6553	95	4152	76	7034	3	2476	116	2526	105	4548	103	6171	112
46	UDMH-101	4667	126	4560	43	4954	82	3224	98	2642	102	4009	126	5776	123
47	KH-517 Gold	7334	64	3425	124	5580	45	5535	31	4307	60	5236	53	6849	86
48	HT 51412616	9224	17	4861	19	6065	18	5363	37	6903	5	6483	4	7782	15
49	JH 13054	8443	34	4224	71	5977	21	4789	47	3657	83	5418	40	7471	40
50	AWLH 1	6056	108	4083	84	6594	7	2875	105	4319	59	4785	88	5947	119
51	DMRH1413	3389	130	3783	106	5082	74	1005	130	1136	128	2879	130	4610	130
52	JH 13139	7554	61	4486	48	6463	9	4579	55	6217	11	5860	17	6887	84
53	EH-2380	7669	55	3794	104	5000	79	4666	51	5051	39	5236	52	6523	93
54	JH 13224	7887	48	3628	111	6301	15	5573	29	6708	7	6020	12	7644	24
55	JH 13121	8610	31	3776	108	4605	100	4568	57	5746	23	5461	35	7487	39
56	JH 13204	7666	56	3532	117	5943	25	2515	115	5620	27	5055	69	6774	89
57	BH 412064	8224	40	4498	47	5132	72	4458	62	4270	62	5316	48	7284	51
58	JH 13215	8778	25	3437	121	5733	37	5266	41	5409	32	5725	24	7517	36
59	MMH 6-13	7167	75	4790	24	4824	85	3493	90	2921	93	4639	98	6942	77
60	PM 14107M	9221	18	5531	3	4539	103	4943	44	2694	98	5386	44	7702	18
61	IAHM 2013-11	6390	98	4633	35	5474	50	2366	120	2057	116	4184	119	6059	117

SI No	PEDIGREE											ZN 5		OVL	
		AMBI	R	BANS	R	CHHI	R	GODH	R	UDAI	R	MEAN	R	MEAN	R
62	SHIATS MS2	6780	88	5455	5	6056	20	3285	97	4451	55	5205	57	6525	92
63	DMRH1301	6056	109	3927	97	6066	17	4381	65	1933	120	4472	105	6460	99
64	JH 13172	7834	49	3430	122	4175	116	4513	60	5682	25	5127	61	7183	60
65	BH 412065	6725	90	3941	95	5648	41	5370	36	1971	118	4731	92	6798	87
66	Zuari Nandiri	9169	19	4241	66	5462	51	6479	12	5867	19	6244	5	7808	12
67	AWLH 2	5945	111	4594	39	5343	56	3621	89	2575	103	4416	110	6407	101
68	IAHM 2013-97	6388	100	4744	28	4104	118	3015	101	2688	99	4188	118	6162	113
69	LMH 314	9114	21	4013	90	6113	16	2339	122	6834	6	5683	27	7359	50
70	JH 13119	8556	32	4146	79	5787	34	5821	24	4730	47	5808	21	7228	56
71	HKH343	6277	103	4243	65	4095	119	7480	2	4001	72	5219	55	6496	96
72	MMH 2-13	5056	124	4293	62	5841	30	4152	72	4363	57	4741	91	6213	108
73	JH 13226	7832	51	4419	51	5282	63	5322	40	7469	1	6065	8	7274	52
74	MMH 5-13	6165	105	3921	98	5167	70	2446	117	3892	76	4318	112	5901	120
75	NMH-3612	6830	87	3547	116	5224	67	5787	25	5884	16	5454	36	7226	57
76	HT 51412081	9611	11	4404	54	5629	43	4620	53	2546	104	5362	46	7600	28
77	GPS 05	7166	76	3793	105	5870	29	3990	79	5880	17	5340	47	6453	100
78	KF-105	7281	67	4846	20	4753	88	4181	71	2314	112	4675	96	6523	94
79	IAHM 2013-9	7607	60	4326	59	4734	89	4573	56	4938	44	5235	54	6912	80
80	DMRH1417	5501	120	3812	102	5760	35	5484	33	4319	58	4975	77	6471	97
81	MMHQPM-6-12-13-Filler	7279	68	4147	78	5295	61	3292	96	4940	43	4991	74	6639	90
82	HKH344	6500	96	3685	110	5645	42	4337	67	2644	101	4562	101	6203	110
83	DH1415	7168	74	3488	119	4714	93	3852	85	4958	41	4836	85	6311	105
84	DMRH1302	5612	117	3900	100	3255	130	4685	50	4726	48	4436	109	6364	103
85	GK-3120	7553	62	4683	34	4984	80	2346	121	2751	97	4464	107	7669	21
86	KMH-4811	8165	45	4204	73	4767	86	6275	16	4053	70	5493	33	7751	16
87	GPS 01	7833	50	4610	38	4377	110	3800	86	4179	64	4960	79	7049	73
88	CMH11-619	7944	47	4827	21	3615	125	6513	10	4175	65	5415	41	7141	65
89	KDMH 100-8	5389	121	4752	25	5966	23	7243	4	5868	18	5844	19	6108	115
90	BL 900	6779	89	5005	12	6981	4	5825	22	5145	37	5947	13	7596	29
91	UDMH-114	4389	127	3796	103	5515	48	2418	118	3994	73	4022	125	5128	129
92	AH-1323	3778	129	3781	107	4224	114	2158	125	3805	82	3549	129	5159	128
93	VEH 14-2	6333	102	4966	14	7327	2	6052	17	4925	45	5921	14	7198	59
94	JH 13164	9278	16	4685	31	5802	33	5663	27	3955	74	5877	16	7391	47

SI													ZN 5		OVL	
No	PEDIGREE	AMBI	R	BANS	R	CHHI	R	GODH	R	UDAI	R	MEAN	R	MEAN	R	
127	PMH4	8281	37	5018	10	5830	31	6350	15	5557	28	6207	6	7633	27	
128	HM9	4055	128	4232	68	5314	60	2554	113	4365	56	4104	121	5791	122	
129	HM10	6887	84	4355	58	6750	5	2733	109	4472	53	5039	71	6065	116	
130	BIO-9637	6832	86	997	130	5572	46	4014	78	3485	88	4180	120	6916	79	
	Location Mean	7468		4283		5212		4366		4108		5088		6986		
	C.D. (5%)	1492		1030		2340		790		536		1238		1154		
	C.V. (%)	12.43		14.96		27.92		11.25		8.11		-		-		
	F (Prob)	0		0		0.392		0		0		-		-		
	Plot Size	6		4.8		6		2.4		4.8		-		-		
	AGRONOMY DATA															
	Sowing Date	10-07		3-07		2-07		17-07		1-07		-		-		
	Harvest Date	-		17-10		15-11		6-11		17-10		-		-		
	Irrigation Nos	-		-		-		-		1		-		-		
	Fertilizer Applied N	120		150		120		100		120		-		-		
	Fertilizer Applied P	60		80		60		50		90		-		-		
	Fertilizer Applied K	40		-		40		-		-		-		-		

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TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH4																																
		ZN 1				ZN 2				ZN 3				ZN 4				ZN 5 OVL																
		BAJA	BARA	KANG	UDHA	MEAN	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	UDAI	MEAN	MEAN		
1	IASH 11C022	11.2	50.6	-	-	-	7.1	-	5.4	-	-	-	20.1	-	-	-	26	27.2	8.4	5.8	-	21.8	-	7.9	22.1	-	-	-	-	-	-	-		
2	CP.201	5	45	-	-	1.8	7.9	31.5	8.4	19.2	16.8	48.9	-	-	15.7	6.7	6.9	20.9	-	22	1	-	21.9	36.9	11.2	-	-	-	-	-	-	5.1		
3	Srikar 4689	14	78.1	-	-	1.9	-	-	-	-	-	-	-	-	-	-	13	9.9	6.3	-	-	27	-	0.9	-	-	-	-	-	-	-	-		
4	DMRM1402	10	7.3	-	-	-	3.5	-	5.8	16.6	6.7	28.7	-	-	-	-	7.1	0.8	5.2	7.2	-	16.9	-	-	-	-	-	-	-	-	-	-		
5	JH 13142	14.8	22.4	-	-	-	-	-	-	-	-	-	28.2	-	-	-	12.1	13.7	-	-	-	15.3	0.7	0.1	0.7	-	-	-	-	-	-	-		
6	HKH342	-	-	-	-	-	-	17.8	-	-	-	-	-	4.7	-	-	-	-	3.3	-	-	0.4	-	-	-	-	9.6	-	-	-	-	-		
7	PMH 2277	28.6	17.2	-	-	1	-	48.6	17.6	15.6	15.1	43.3	-	0.5	-	9.1	5.4	25.1	64.1	26.6	24.3	-	21.4	-	19.7	-	-	-	-	-	-	6		
8	DMRH1418	-	66.7	-	-	5.2	-	24.9	-	-	-	37.3	-	1.8	-	-	-	-	39.8	-	-	4	29.8	2.2	14.1	-	-	5.7	-	-	-	-		
9	HT 51412182	15.9	55.3	37.1	-	22.8	-	8.7	22.6	11.2	4.1	-	-	20.8	-	10.2	-	32.3	40	13.5	15.2	-	38	10.9	19.8	7.4	-	-	7.2	-	-	10		
10	JH 31607	4.6	89.3	-	-	8.3	3.8	-	12.2	-	-	20.5	4.4	9.3	-	-	-	17.2	-	-	-	-	1.1	-	-	-	-	-	-	9	-	-		
11	DH1413	-	-	-	-	-	-	13.5	-	-	-	6.7	-	-	-	-	-	-	-	-	-	-	-	18.5	-	-	-	-	-	-	-	-	-	
12	IAHM 2013-26	-	2.8	-	-	-	-	13.9	-	-	-	-	-	8.2	-	-	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	DAS-MH-307	-	73.9	0.8	-	6.9	-	-	5.1	22.4	5.5	-	1.9	6.3	-	16.9	0.9	-	27.5	-	3	-	7.2	0.6	-	21.4	-	-	-	-	-	-	-	
14	MMH 4-13	15.3	-	-	-	-	-	-	-	-	-	16.4	-	8.6	-	-	-	8.5	20.6	-	1.3	-	-	8.9	-	-	-	-	-	-	-	-	-	
15	NMH-3662	5.1	21.8	-	-	-	3.9	-	-	18	-	89.8	-	12.1	-	-	1.9	36.9	57.5	-	38.6	-	11.6	-	14.2	-	-	-	-	-	-	-	-	
16	JH 13117	20.8	74.5	-	-	-	7.1	-	11.2	-	-	46.4	-	0.9	-	-	-	1.3	9.7	11.3	4.2	-	-	-	-	-	75.4	-	0.4	4.6	8.4	0		
17	DH1401	5	20.5	-	-	-	-	21.4	-	-	-	13.1	-	-	-	-	-	-	19.7	-	-	-	8.8	8.1	-	16.1	-	-	-	5.5	-	-		
18	DAS-MH-306	7.7	51.5	22.7	-	16.5	-	13.6	14.9	1.9	5.9	29.4	5.4	10.7	-	20.5	10.2	7.1	7.5	-	38	-	17.2	6.6	0.3	19.4	-	-	-	-	-	2.9		
19	BH 412084	20.7	83.4	10.3	-	18.7	-	16	-	-	-	50.9	5.7	-	5.4	-	6.2	0.8	24	-	5.4	-	9.6	58.5	5.1	17.4	-	-	2.3	-	-	2.2		
20	DH1405	11.3	-	-	-	-	-	10.7	-	-	-	65.8	-	6.6	3.9	-	-	8.4	40	2.1	-	-	4.3	1.8	4	-	-	-	15.8	1.9	-	-		
21	EH-2235	4.8	-	-	-	-	-	5.2	-	-	-	40.5	-	4.8	-	-	-	-	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22	EH-2372	10.9	17.7	-	-	-	-	8.3	2.5	0.7	-	-	-	5.6	-	-	-	-	4.5	1.1	-	-	13.3	-	-	-	-	-	-	-	-	-	-	
23	CMH11-615	0.7	51.7	-	-	-	-	-	7	13.3	2.7	66.9	5.9	-	-	3.9	8.9	10.4	48	19.4	18	-	12.1	1.6	15.2	-	-	-	2.7	-	-	5.3		
24	TMMH 801	-	14	-	-	-	-	-	13.1	8.9	1.6	19.4	4.7	1.5	-	7.9	2.7	-	19.2	-	15	-	26.7	-	-	-	-	-	-	-	-	-	-	
25	Bio 719	12.9	38	10.9	-	12.4	-	10.8	1.6	7.4	4.3	-	3	-	-	7.6	-	12	16.3	-	3.9	-	34.3	-	6.4	3.3	-	-	-	-	-	0.8		
26	UDMH-115	-	23.2	-	0.6	0.2	-	8.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.7	3.9	-	-	0.7	-	-	-	-	-	-	
27	IAHM 2013-33	-	4.1	-	-	-	-	-	-	-	-	0.8	-	-	-	-	-	-	3.2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
28	JH 13246	11.5	-	-	-	-	-	7.1	5	13.8	5.3	-	-	-	-	-	-	-	-	-	-	-	4.6	-	-	-	-	2	-	-	-	-	-	
29	CMH11-586	10	22.1	-	-	-	-	18.3	1.9	28.3	10	101	-	-	-	-	9.6	-	60.4	-	1.1	-	9.1	22.9	6.8	9.4	-	-	-	-	-	0.3		
30	HT 51412373	10.6	104	-	-	7.9	-	7.8	-	-	-	18.4	-	-	-	-	-	14.7	18.9	5.7	-	-	24.2	-	2.7	-	-	-	-	-	-	-	-	
31	QMH-1025	6.2	82.2	-	-	-	10	-	22.3	21.8	10.4	24.2	-	14.2	-	7.6	0.8	21.2	33.4	13.1	7.1	-	19.5	59.8	18.3	5.4	-	-	-	-	-	4.8		
32	BH 412066	5.6	-	-	-	-	5.7	24.3	11.5	-	3	-	-	-	-	4.8	-	-	25	3	7.5	-	8.6	-	0.9	-	-	-	37.6	2.4	-	-	-	
33	BH 412120	5.1	-	-	-	-	-	16	-	8.8	-	-	-	1.6	-	12.5	-	8.3	20.6	-	-	-	2.3	-	-	-	-	1.6	-	-	-	-	-	
34	MMH 3-13	-	-	-	-	-	-	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
35	CMH11-584	-	56.1	-	-	3.7	-	0.6	2.6	7.7	0.8	-	-	-	-	-	-	4.4	46.1	1.4	-	12	10.7	29.7	12.1	-	-	9.2	-	-	-	-	-	
36	BH 412063	12.3	43.8	-	-	1.8	-	32.5	-	-	-	51.8	5.4	5.5	-	-	-	10	24.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	KDMH 100-3	-	9.4	-	-	-	-	50.5	17.5	3.9	14.6	-	4.9	0.2	-	-	-	-	10.3	-	-	-	-	-	-	-	-	10.9	-	-	-	-	-	-
38	TI 8261	-	85.7	-	-	2.3	-	28.5	21.8	24.4	15.5	5.8	-	-	-	10.1	-	12.2	29.7	7.4	24.1	-	31.1	10.7	16.6	12	8.4	-	-	-	-	-	4.7	

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH4																															
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5 OVL											
		BAJA	BARA	KANG	UDHA	MEAN	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	UDAI	MEAN	MEAN	
39	CMH11-593	9.3	63.6	-	-	8.9	-	10.6	4.7	0.9	-	61.8	-	3.7	-	9.3	5	30.4	32.2	6.1	8.6	-	19.4	-	8.7	44.2	-	4	12.4	-	8.8	6.1	
40	CMH12-665	28.8	13.9	-	-	-	-	-	8.2	-	-	-	-	-	-	-	-	-	28.7	-	-	-	19.1	-	0.2	4.7	-	-	-	-	-	-	
41	KH-545	12.1	-	-	-	-	-	5.8	10.2	-	-	43.1	-	-	-	-	-	-	20.4	-	-	-	15.1	-	-	-	-	-	-	-	-	-	
42	QMH-1034	20.9	63.7	32.6	-	21.8	-	-	5.3	1.6	-	-	-	-	-	-	-	7.9	25.5	-	12.7	-	9.7	4.9	2.8	14.7	-	-	-	-	-	-	
43	LMH 114	5.9	60.4	-	-	7.1	-	31.2	2.4	-	0.9	9.7	-	0.5	-	-	-	8.2	12.8	-	-	-	16.9	2.1	1.6	-	-	-	-	-	-	-	
44	BH 412044	-	19.2	-	-	-	-	16.3	-	-	-	22.9	7	9.4	-	-	-	8.8	-	-	3.4	-	37.6	-	-	-	-	-	-	-	-	-	
45	KMH12-25	13.8	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	20.3	-	-	-	20.6	-	-	-	-	-
46	UDMH-101	-	-	-	-	-	-	4.4	-	-	4.3	-	16.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	KH-517 Gold	-	-	-	-	-	-	13.7	1.4	-	-	-	-	-	-	-	-	5.8	-	-	-	-	-	28.5	-	-	-	-	-	-	-	-	-
48	HT 51412616	-	63.4	-	-	5.7	-	9.3	11	-	-	-	-	-	-	-	9.2	14.3	-	23.6	-	37.3	7.7	9.9	11.4	-	4	-	24.2	4.4	2		
49	JH 13054	-	32.8	-	-	-	-	8.6	-	-	-	-	-	-	-	-	7.3	28	3.3	2.8	-	34.3	0.9	10	2	-	2.5	-	-	-	-	-	
50	AWLH 1	22.1	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-	-	-	-	-	-	-	-	33.3	-	-	-	13.1	-	-	-	-	-
51	DMRH1413	-	-	-	-	-	-	-	-	-	-	-	-	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52	JH 13139	-	22.6	-	2.5	-	-	-	-	-	31.1	-	-	-	-	-	8.6	11.3	-	-	-	7.5	-	-	-	-	10.9	-	11.9	-	-	-	-
53	EH-2380	3.7	-	-	-	-	9.6	15.6	3.6	-	1.4	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-
54	JH 13224	-	33	-	-	-	12.3	0.7	0.2	11.9	6.7	18	-	1	-	-	-	-	22.1	-	10.9	-	30.7	-	1.8	-	-	8.1	-	20.7	-	0.1	
55	JH 13121	12.3	73.9	-	4.1	15.4	13.2	-	-	7	-	6.7	-	-	5.8	-	-	-	8.7	-	-	-	2.6	-	-	4	-	-	-	3.4	-	-	
56	JH 13204	-	6.7	-	-	-	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.7	-	-	-	1.9	-	1.1	-	-	-	
57	BH 412064	-	68.8	-	-	-	1.5	11.6	7.4	-	-	-	15.6	-	-	-	10.9	-	4	-	3.4	33.8	-	4.1	-	-	-	-	-	-	-	-	
58	JH 13215	-	29.1	-	-	-	-	36.8	-	-	0.8	-	0.7	5.7	-	-	-	18.8	-	11.8	7.6	-	31	-	7.3	6	-	-	-	-	-	-	
59	MMH 6-13	6.2	23.8	-	-	-	-	-	-	2	-	44.4	-	-	-	-	2.5	12.1	-	-	-	9.8	3.2	-	-	-	-	-	-	-	-	-	
60	PM 14107M	-	16.9	23.3	-	6.7	-	-	-	18	-	13.2	-	2.8	-	2.3	-	9.9	16.8	9.6	1.1	-	33.4	30.9	12.2	11.3	10.2	-	-	-	-	0.9	
61	IAHM 2013-11	22.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.8	-	-	-	-	-	-	-	-	-	-
62	SHIATS MS2	-	10.2	-	3.6	-	-	17.9	-	-	-	2.4	-	3.7	-	-	-	-	-	-	-	-	4.5	-	-	-	8.7	3.9	-	-	-	-	-
63	DMRH1301	4.5	-	-	-	-	16.3	5.9	-	-	-	-	-	-	-	-	-	10.5	-	-	-	6	11.7	-	-	-	4	-	-	-	-	-	
64	JH 13172	-	59.9	-	-	0.1	11.3	11.2	-	0.9	-	-	-	-	-	5.6	-	2.3	8.9	-	2.6	-	13.1	-	-	-	-	-	-	2.2	-	-	
65	BH 412065	4.2	60.6	-	-	-	-	8.7	6.6	-	-	-	-	7.9	-	-	-	0.5	14.6	-	-	-	11.7	-	-	-	-	-	-	-	-	-	-
66	Zuari Nandiri	-	49.3	-	-	-	10	2	-	20.2	4.7	21.9	-	6.4	-	-	-	12.5	-	11	25.2	-	31.2	39.4	9.5	10.7	-	-	2	5.6	0.6	2.3	
67	AWLH 2	11.5	-	-	-	-	1.9	-	-	-	-	-	-	-	-	-	-	9.5	-	-	-	-	20.3	-	-	-	-	-	-	-	-	-	-
68	IAHM 2013-97	-	-	-	-	-	-	2.1	-	-	0.2	-	4.2	-	-	-	0.9	-	-	-	-	-	5.9	6.5	-	-	-	-	-	-	-	-	-
69	LMH 314	-	8	-	-	-	-	5.8	16.6	2	5.6	-	3	1.3	-	6.2	-	3.1	25	-	-	-	4.8	-	-	10.1	-	4.8	-	23	-	-	-
70	JH 13119	10.9	-	-	-	-	-	-	4.7	-	51.4	-	3.9	-	-	2.2	19.5	-	-	-	-	-	18.6	11	-	3.3	-	-	-	-	-	-	-
71	HKH343	8.9	-	-	-	-	-	37.1	-	-	-	31.4	-	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.8	-	-	-	-
72	MMH 2-13	-	17.9	-	-	-	-	13.9	5	-	-	-	-	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	-	-	-
73	JH 13226	-	-	5.3	-	-	-	13	-	-	-	6.7	12	11.3	-	-	2.3	-	-	-	-	1.4	5.5	-	-	-	-	-	-	34.4	-	-	-
74	MMH 5-13	-	1.5	-	-	-	-	-	-	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75	NMH-3612	-	43.5	-	-	-	-	24	10.9	4.5	2.8	-	-	-	-	-	16.8	6.7	0.9	-	-	-	17.7	-	-	-	-	-	-	5.9	-	-	-
76	HT 51412081	2.5	43.7	10.6	-	8.3	-	-	5.6	9.9	-	44.5	-	1.7	-	1.2	-	10.3	49	22.7	-	-	17	-	2.9	16.1	-	-	-	-	-	-	-

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TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH4																																
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5 OVL												
		BAJA	BARA	KANG	UDHA	MEAN	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	UDAI	MEAN	MEAN		
77	GPS 05	18.5	-	-	-	-	16.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.7	-	-	-	-	0.7	-	5.8	-	-	
78	KF-105	-	-	-	0	-	2.2	-	3.7	6.5	1.1	17.8	3.6	4.4	-	-	-	-	8.3	-	-	6.5	-	-	-	-	-	-	-	-	-	-	-	
79	IAHM 2013-9	4	-	-	-	-	0.5	0.3	-	-	-	11.1	8.9	14	-	-	-	1.2	-	-	0.3	-	-	-	-	-	-	-	-	-	-	-	-	
80	DMRH1417	-	-	-	-	-	-	7.9	-	-	-	-	-	-	6.3	-	-	-	-	-	-	-	-	10.2	-	-	-	-	-	-	-	-	-	
81	MMHQPM-6-12-1	-	7	-	-	-	-	-	-	7.6	-	-	-	2.1	-	-	-	-	5	8.9	-	-	-	-	-	-	-	-	-	-	-	-	-	
82	HKH344	10.5	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-	20.9	-	7.3	-	-	-	-	-	-	-	-	-	-	-	
83	DH1415	-	-	-	-	-	0.7	-	-	-	-	27.2	-	-	-	-	-	-	-	27.1	-	-	-	-	-	-	-	-	-	-	-	-	-	
84	DMRH1302	-	23	-	-	-	-	13.7	-	-	-	-	-	2	-	-	-	-	-	6.6	-	-	-	-	-	-	-	-	-	-	-	-	-	
85	GK-3120	3.2	9	18.9	-	6.2	-	-	6	1.3	-	34.8	-	16.6	7.7	1.4	10.6	27.3	33.1	-	14.4	-	29.7	19.2	10.6	-	-	-	-	-	-	-	0.5	
86	KMH-4811	0.4	80.3	-	-	0.4	-	0.1	-	27.8	7.1	19.4	10.1	-	-	5	-	19.9	43.8	-	-	-	37.6	-	6.5	-	-	-	-	-	-	-	1.5	
87	GPS 01	17	-	-	-	-	-	17	-	-	-	-	-	-	1.9	-	-	-	38.9	7.6	4.9	-	-	33.7	2.4	-	-	-	-	-	-	-	-	
88	CMH11-619	11.8	44.6	-	-	2.6	-	10.8	-	-	-	-	-	-	-	-	-	-	29.9	-	2	-	19.8	3.5	3.9	-	-	-	-	2.6	-	-	-	
89	KDMH 100-8	9.6	-	-	-	-	-	-	-	-	-	-	0.3	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.3	14.1	5.6	-	-	
90	BL 900	-	26.2	6.5	-	-	-	14	-	-	-	9.4	-	0.6	-	-	-	33.5	17.7	10.4	4.4	-	31.3	19.3	14.6	-	-	19.7	-	-	-	-	-	
91	UDMH-114	3.6	-	-	-	-	-	10.9	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
92	AH-1323	-	-	-	-	-	-	-	-	-	-	-	-	13.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
93	VEH 14-2	-	14.3	8.2	-	-	-	3.2	8.6	-	-	48.8	-	-	-	-	-	-	17.3	-	3.7	-	22.4	19	-	-	-	25.7	-	-	-	-	-	
94	JH 13164	5.6	9	5.7	-	0.8	-	15.1	0.6	2.2	3.5	19.3	-	6.6	-	1.2	-	-	6.7	4.9	-	-	12.2	-	-	12	-	-	-	-	-	-	-	
95	PM 14108M	-	-	7.8	-	-	-	19.7	-	6.1	3.8	-	10	9.6	-	-	-	1.3	46.6	3.8	4.5	-	10.5	-	1.4	10.7	-	10.6	-	-	-	-	-	
96	DMRH1410	22.1	10.7	-	-	-	-	1.1	-	-	-	15.5	-	-	-	-	-	-	7.1	-	-	-	16.8	-	-	0.6	4.9	-	-	8.3	-	-	-	
97	TMMH 826	-	40.3	-	-	-	-	5	15.8	22	8.3	17.4	-	2.2	-	-	-	-	47.2	-	-	-	15.9	-	4.7	-	-	-	-	4.3	-	-	-	
98	IN 8401	20.3	69.2	-	-	11.7	2.4	15.7	16.9	-	7.3	36.9	-	-	-	-	-	23.5	41.6	-	13.4	-	10.4	-	7.6	5.4	-	-	-	-	-	-	0.8	
99	HT 51412607	10.1	71.6	-	-	8.6	-	12.5	13.5	-	0.7	-	-	0.1	-	15	-	16.9	15.7	-	0.1	4.3	35.9	-	7.5	33.5	-	14.7	-	26.1	10.9	4.2	-	
100	JKMH 4848	-	29.8	10.9	-	4.9	-	11.7	-	14.5	4	29.4	19.4	7	-	-	2.2	17.1	55.1	13.4	4.2	8	13	-	15.1	-	17.1	-	-	6.8	-	4.9	-	
101	DH1411	0.6	12.7	-	-	-	-	10.4	18.4	10.4	7.6	2.9	-	-	-	-	-	21.7	18.1	-	10.4	-	13.3	-	2.9	28.8	-	-	-	-	-	-	-	
102	SMH-3901	9.3	31.1	-	-	-	0	5.2	-	9.5	-	-	-	-	-	1.3	-	1.3	77.4	-	8.6	-	14.4	47.4	17.1	-	-	1.3	-	-	-	0.3	-	
103	LMH 414	-	-	-	-	-	-	2.5	-	-	-	1.7	-	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.8	-	-	-	
104	REH2013-1	6.4	19.5	-	-	-	-	5.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
105	DMRH1416	-	77.1	1.2	-	-	-	8.5	-	-	-	37.3	-	-	-	-	-	5.2	22.7	-	-	-	-	-	11.9	-	16	-	-	-	-	-	-	
106	JH 13122	20.4	30.9	-	-	-	-	7.4	3.4	4	-	16.4	-	-	-	-	-	-	6.8	-	-	-	13.7	-	-	-	-	-	16.9	-	-	-	-	
107	ZMH-999	12.5	24.2	-	-	-	1	27.4	-	17	7.1	24.9	-	7.4	-	-	-	22.9	48.5	-	-	-	19.8	-	7.3	5.3	-	-	-	-	-	-	-	
108	REH2013-3	18	9.6	-	-	-	-	5.4	-	-	-	-	-	-	-	-	-	-	10.9	-	-	-	4.9	-	-	-	-	-	-	-	-	-	-	
109	JH 13114	-	34.6	-	-	-	-	-	7.8	4.9	-	37.4	-	-	-	-	-	15.6	28	-	-	-	-	-	-	-	-	29.1	-	-	-	-	-	
110	BH 412067	8.3	1.9	-	-	-	-	6.8	-	-	-	11.2	-	6.4	-	-	-	-	8.5	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
111	JH 31605	-	39.8	-	-	0.6	3.6	15.4	11.5	2.4	7.7	-	-	5.4	-	-	-	20.2	40.3	14.3	22.9	-	22.6	16.9	17.1	5.3	-	-	-	-	-	2.2	-	
112	PM 14106M	23.5	58.6	50.6	-	29.7	-	-	26.9	18.7	3.6	48.1	-	4.2	-	-	-	25.7	23.4	7	-	-	19.9	-	4.8	19.4	-	-	4.4	-	-	4.9	-	
113	DH1403	21.1	-	-	-	-	-	2.3	-	-	-	48.5	-	2.1	-	-	-	-	13.5	7.7	9.5	-	-	-	-	-	-	-	-	12.5	-	-	-	
114	DMRH1412	0.4	84.5	14.6	-	13.6	-	-	-	-	-	44	22	5.5	-	-	5	-	-	-	-	-	-	-	-	-	-	10.1	-	-	-	-	-	

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH4																															
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5 OVL											
		BAJA	BARA	KANG	UDHA	MEAN	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	UDAI	MEAN	MEAN	
115	DMRH1308	-	51.8	-	-	2.8	-	-	4.5	-	-	-	1.3	5.4	-	6.6	-	28	28	-	-	-	19.1	-	6.1	7.3	1.4	-	0.1	6.4	-	0	
116	LMH 214	-	49.7	-	-	-	0.4	23.9	-	-	-	2.2	-	-	-	-	-	-	0.9	-	-	-	11.5	-	-	-	-	-	-	-	-	-	
117	Proline 786	10.5	1.2	-	-	-	0.5	12.3	4.6	-	3.7	16.9	-	-	-	-	-	0.9	29.9	-	2.8	-	-	-	-	-	-	8.5	-	-	-	-	
118	BL 897	26.3	-	-	-	-	0.5	-	31.4	2	1.6	6.8	-	0.8	12.3	-	-	-	8.3	41.3	5.4	14.6	-	24.1	27.3	13.4	-	-	-	-	-	1.2	
119	REH2013-4	-	-	-	-	-	3.5	6.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
120	DMRH- 12-110	-	25.7	-	-	-	-	-	-	1.4	-	-	-	-	-	-	-	11.1	23.2	3.2	-	-	-	36.2	4.8	-	10.1	-	-	26	-	-	
121	QMH-1015	24.4	40.4	-	-	-	3.6	-	-	27.9	55.9	18.1	38.3	-	-	2.8	0.1	-	16.5	-	-	-	34.8	-	-	32.1	-	-	-	-	-	-	
122	DH1429	-	-	-	-	-	1	-	-	-	-	-	-	4.3	-	-	-	-	12	-	-	-	4.8	10.5	-	-	-	-	-	24.3	-	-	
123	EH-2381	-	7	-	-	-	-	31.3	-	-	3.9	16.5	-	-	-	-	-	3.1	31.2	-	-	-	7.9	-	-	-	-	-	-	-	-	-	
124	AH-1322	-	-	-	-	-	-	6.8	-	-	-	49.3	-	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
125	BH 412062	4.7	-	-	-	-	-	14.7	-	-	-	30.4	-	2.8	-	-	-	-	20.5	-	7.4	-	-	-	-	-	-	-	-	-	-	-	
126	RMH 796	6.7	39.7	-	-	-	3.3	0.8	13	-	-	-	-	2.5	-	-	-	-	12	-	-	-	39.6	-	-	-	-	-	-	-	-	-	
	CHECKS																																
127	PMH4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
128	HM9	-	-	-	-	-	-	13.6	-	-	-	-	-	5.6	-	-	-	-	-	-	-	-	-	7.3	-	-	-	-	-	-	-	-	-
129	HM10	-	23	-	-	-	3.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.8	-	-	-	-	-
130	BIO-9637	0	47.7	6.2	-	8.2	1.7	16.5	-	-	-	48.6	-	-	-	-	-	5	-	-	-	-	9.8	3.1	-	-	-	-	-	-	-	-	-

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM9																															
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5			OV'L								
		BAJA	BARA	KANG	UDHA	MEAN	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	UDAI	MEAN	MEAN	
115	DMRH1308	37.5	99.1	71.8	2.6	46	-	-	122	25.1	16.4	-	45.3	-	44.2	61.2	24.2	90.3	34.5	66.2	25.4	8.6	35	-	34.7	119	20.3	-	149	35.5	44.2	31.8	
116	LMH 214	6.1	96.2	-	15.3	23.9	2.3	9	95.7	-	12.9	11.3	18.3	-	10.7	8.3	6.6	7.4	6	27.8	18.1	-	26.3	-	7	61.7	-	-	87.3	-	14.1	11.7	
117	Proline 786	53	32.7	39.5	16.2	34.9	2.3	-	122	29.4	25.4	27.2	37.1	-	27.3	28.5	15.9	50	36.5	56.4	39.8	-	-	-	23.1	68.6	-	19.1	59.5	-	21.4	23.8	
118	BL 897	74.8	27.7	72.5	-	42.7	-	15.6	116	32.5	29.2	-	44.6	6.4	27.1	38.6	19	61.1	48.5	84.3	55.8	-	40.6	18.6	43.9	64.5	-	-	132	10.1	24.6	33.4	
119	REH2013-4	-	-	18.6	-	-	5.4	-	25.8	-	-	-	-	-	12.8	-	-	-	-	20.7	-	-	7.3	-	-	31.6	-	3.3	-	-	-	-	
120	DMRH- 12-110	31.2	64.9	46.4	8.7	34	-	-	99.3	32.3	17.7	5.7	36.8	-	41.4	35.6	17.1	65.2	29.5	80.3	35.9	-	-	26.9	33	103	30.5	-	71.6	60.4	46.7	28	
121	QMH-1015	72.2	84.1	24.1	19.4	47.2	-	-	171	103	42.9	50.5	27.1	-	60.1	55.3	30.3	35	22.4	27.1	25.7	-	52.8	-	19.7	170	0.1	-	-	-	18.1	30.4	
122	DH1429	17.5	18.5	-	13	11.8	2.9	-	51.6	27.3	7.4	-	-	-	51.7	12.8	5.9	33.4	17.7	32.6	12.1	-	18.8	2.9	12	41.2	-	0.5	0.9	58.3	14.7	10.3	
123	EH-2381	0.7	40.3	61.5	6.1	23.6	1.7	15.6	92.3	27.3	25.7	26.8	-	-	36.2	39.5	16.1	53.3	37.9	50.8	20.6	-	22.3	-	21	91.9	-	-	103	16	28.9	22.7	
124	AH-1322	8.7	2.6	0.2	-	0	-	-	32.2	-	0.5	62.5	17.8	-	-	-	8.6	10.1	1.2	23	-	-	-	-	-	43.9	-	1.3	-	-	-	-	
125	BH 412062	44.9	22.4	10.9	0.4	19.4	-	0.9	-	24.8	-	41.9	25.8	-	36.1	11.3	18.2	30.9	26.6	72.1	46.1	11.9	2.1	-	23	38.4	-	5.8	119	-	8.4	14.2	
126	RMH 796	47.7	83.2	72.5	4.4	46.7	2.7	-	106	13.3	18.9	-	10.5	-	39.9	26.5	10.2	43.2	17.7	65.6	5.6	-	58.2	-	25.1	85	4.4	0.8	8.5	20.7	23.4	24	
CHECKS																																	
127	PMH4	38.4	31.1	79.8	23.6	42.1	1.9	-	112	30.4	20.9	8.8	43.4	-	83.1	51.2	30.2	48.7	5.1	74.7	36	24	13.3	-	26.9	104	18.6	9.7	149	27.3	51.3	31.8	
128	HM9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
129	HM10	20.3	61.3	-	-	13.8	5.6	-	38.1	17.3	2.7	-	15.6	-	0.8	10.7	0.4	19.5	-	31.6	-	-	3	-	-	69.9	2.9	27	7	2.4	22.8	4.7	
130	BIO-9637	38.4	93.7	91	15.7	53.7	3.6	2.5	57.9	3.7	10.7	61.7	27.5	-	29.2	24.7	22.6	24.2	10.3	46.6	14.3	-	24.4	-	16.2	68.5	-	4.9	57.2	-	1.8	19.4	

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM10																														
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5			OV'L							
		BAJA	BARA	KANG	UDHA	MEAN	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	UDAI	MEAN	MEAN
121	QMH-1015	43.1	14.1	28.1	29.5	29.3	-	4.2	96.5	73.3	39.1	72.5	10	-	58.8	40.4	29.7	13	45.7	-	28.9	23.6	48.4	5	24.2	58.9	-	-	-	-	-	24.5
122	DH1429	-	-	1	22.6	-	-	3	9.7	8.5	4.5	-	-	6.8	50.4	2	5.4	11.6	40.1	0.8	15	-	15.4	57.4	16.2	-	-	-	-	54.5	-	5.3
123	EH-2381	-	-	66.8	15.1	8.6	-	63.6	39.2	8.5	22.4	45.4	-	-	35.1	26	15.6	28.3	64.1	14.6	23.7	11.7	18.8	-	25.5	13	-	-	89.3	13.2	5	17.1
124	AH-1322	-	-	3.5	-	-	-	33.1	-	-	-	86.3	1.9	8.1	-	-	8.1	-	20.4	-	-	-	-	-	-	-	-	-	-	-	-	
125	BH 412062	20.4	-	14.6	8.9	4.9	-	42.8	-	6.4	-	62.7	8.8	5.3	35	0.6	17.7	9.5	50.7	30.8	49.8	58.4	-	-	27.6	-	-	-	104.2	-	-	9.1
126	RMH 796	22.7	13.6	78.1	13.3	28.9	-	40.8	49	-	15.7	-	-	5	38.8	14.3	9.7	19.8	40.1	25.8	8.4	17.4	53.6	36.4	29.7	8.9	1.4	-	1.4	17.8	0.5	18.3
	CHECKS																															
127	PMH4	15	-	85.6	34.1	24.8	-	24.6	53.6	11.2	17.7	24.8	24.1	2.5	81.6	36.6	29.6	24.4	25.1	32.8	39.5	75.5	10	42.5	31.7	20.2	15.2	-	132.4	24.3	23.2	25.8
128	HM9	-	-	3.3	8.5	-	-	41.5	-	-	-	14.7	-	8.2	-	-	-	-	19	-	2.6	41.5	-	52.9	3.7	-	-	-	-	-	-	
129	HM10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
130	BIO-9637	15	20.1	97.2	25.5	35	-	45.1	14.3	-	7.7	85.4	10.3	0.4	28.1	12.6	22	3.9	31.3	11.4	17.3	31.7	20.8	46.9	20.5	-	-	-	46.9	-	-	14

BR104

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9637																															
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5			OV'L								
		BAJA	BARA	KANG	UDHA	MEAN	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	UDAI	MEAN	MEAN	
1	IASH 11C022	11.2	2	-	-	-	5.3	-	41.6	5.5	6.8	-	35.2	1.2	30.7	9.3	0.4	50.9	21.2	29.2	25.9	0.4	11	-	17.9	48	301	-	5.6	-	16.5	7.1	
2	CP.201	5	-	-	-	-	6.2	12.9	45.7	49.9	27.6	0.2	-	-	64	29.4	13.5	44.7	-	45.5	20.1	7.3	11.1	32.8	21.5	19.6	316	-	-	4.4	19	16	
3	Srikar 4689	14	20.6	-	-	-	-	-	23.5	23.7	-	-	-	1.4	13.4	10.2	-	35.3	4.7	26.7	13.1	-	15.7	-	10.3	5.7	292	-	-	16.8	11.7	1.3	
4	DMRM1402	10	-	-	-	-	1.8	-	42.2	46.6	16.5	-	-	-	19.7	-	-	28.2	-	25.5	27.4	-	6.5	-	7.5	11.4	337	-	0.7	32.9	22.4	5.1	
5	JH 13142	14.8	-	-	-	-	-	-	21.7	17.1	0.9	-	-	-	12.7	-	-	34.3	8.3	14.7	9	-	5	-	9.3	22	399	-	10.6	56	34.1	4.4	
6	HKH342	-	-	-	4.3	-	-	1.2	-	-	-	-	-	6.8	-	-	-	-	-	-	-	-	-	-	-	-	-	227	14.7	-	-	-	-
7	PMH 2277	28.6	-	-	-	-	-	27.6	58.1	45.4	25.7	-	9.6	2.5	21.2	32.3	12	49.9	56.4	51	47.8	-	10.6	-	30.8	13.8	324	-	12.5	-	10.2	17	
8	DMRH1418	-	12.8	-	-	-	-	7.2	5.2	-	0.8	-	-	3.9	3.7	-	-	13.2	33.2	7.4	5.5	3.2	-	25.8	11.7	38.3	370	-	67.3	-	34.6	6.5	
9	HT 51412182	15.9	5.1	29.1	-	13.5	-	-	64.8	39.9	13.7	-	-	23.3	9.7	33.6	5.7	58.4	33.3	35.4	36.9	1.7	25.7	7.5	30.9	30.2	364	-	69.6	55.9	45	21.4	
10	JH 31607	4.6	28.1	-	-	0.1	2.1	-	50.8	11	6.2	-	17.5	11.6	-	-	-	40.4	-	17.1	-	0.9	-	-	0.3	13.9	340	-	-	73.8	30.1	4.7	
11	DH1413	-	-	-	-	-	-	-	10.8	0.5	0.6	-	-	0.3	6.9	6.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	IAHM 2013-26	-	-	-	-	-	-	-	13.1	-	-	-	21.7	0.9	-	23.9	2.7	-	-	-	2.3	-	6.3	-	-	-	-	-	-	-	-	-	-
13	DAS-MH-307	-	17.8	-	-	-	-	-	41.3	54	15.3	-	14.7	8.5	18.7	41.8	7.2	8.1	21.5	0.4	22.5	4.3	-	-	7.9	47.2	374	-	-	-	-	13.8	8.3
14	MMH 4-13	15.3	-	-	-	-	-	-	18.3	15.1	2	-	-	10.9	13.4	-	-	30	14.9	3.1	20.5	-	-	5.6	4.2	4.1	376	4.6	-	-	-	14.3	0.7
15	NMH-3662	5.1	-	-	-	-	2.2	-	6.7	48.4	8.6	27.8	-	14.4	-	15.6	8.2	64	50.1	18.8	64.9	1.5	1.6	-	24.8	-	297	-	14.7	23.6	12	9.5	
16	JH 13117	20.8	18.2	-	-	-	5.3	-	49.5	4.1	5.6	-	10.5	3	20.1	-	4.6	21.3	4.5	32.7	23.9	-	-	-	8.1	7.4	783	-	58.9	66.9	61	10.4	
17	DH1401	5	-	-	-	-	-	4.2	17.4	12.4	1.2	-	-	0.3	13.2	2.3	-	9.1	14.1	-	-	-	-	4.8	0.8	40.7	310	-	3.1	68.3	38.5	2.6	
18	DAS-MH-306	7.7	2.6	15.4	3.4	7.7	-	-	54.4	28.2	15.7	-	18.6	12.9	22.6	46.1	17	28.2	2.4	-	64.1	-	6.7	3.4	9.6	44.7	389	3	19.3	-	24.2	13.6	
19	BH 412084	20.7	24.2	3.8	-	9.8	-	-	28.3	10.1	2.3	1.6	18.9	-	49.5	20	12.8	20.7	18.2	3.8	25.3	-	-	53.7	14.9	42.4	324	1.7	61.8	-	29.3	12.7	
20	DH1405	11.3	-	-	-	-	-	-	48.8	17.2	2.8	11.6	-	8.8	47.3	-	5.4	29.8	33.4	21.8	16.7	-	-	-	13.7	21.2	376	-	83.1	62.6	46.8	8.9	
21	EH-2235	4.8	-	-	-	-	-	-	8.1	3.9	-	-	7.4	7	-	-	-	13.7	-	-	10.2	-	-	-	-	-	334	-	-	10	1.2	-	
22	EH-2372	10.9	-	-	1.4	-	-	-	37.8	26.7	7.6	-	-	7.7	5.9	0.2	-	-	-	20.5	5.8	-	3.2	-	-	7.3	355	-	-	51.7	22	-	
23	CMH11-615	0.6	2.7	-	6.8	-	-	-	43.8	42.5	12.2	12.3	19.2	-	28	26	15.7	32.2	41	42.3	40.4	10.5	2.1	-	25.8	17.1	392	-	62.4	28.4	36.8	16.2	
24	TMMH 801	-	-	-	-	-	-	-	52.1	37	11.1	-	17.8	3.6	18.7	30.9	9.1	-	13.5	-	36.7	11.1	15.4	-	6.8	6.5	308	-	12.2	-	15	3.8	
25	Bio 719	12.9	-	4.4	3.8	3.9	-	-	36.5	35.1	14	-	15.9	-	21.2	30.5	0.6	34.1	10.8	16.5	23.5	7.9	22.3	-	16.2	25.2	224	-	18	-	20.7	11.2	
26	UDMH-115	-	-	-	7.5	-	-	-	23.9	20.2	6.2	-	-	0.8	11.7	3	-	2.1	-	-	-	21.9	-	0.8	-	1.6	407	-	-	12.4	7	-	
27	IAHM 2013-33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.9	-	1.6	-	3.5	-	-	-	-	-	-	342	-	2.7	4.3	10.2	-	
28	JH 13246	11.4	-	-	3.3	-	-	-	41.2	43.1	15	-	3.7	-	21.9	-	-	17.7	-	-	10	-	-	-	-	6.5	360	6.7	8.1	41.9	29.6	2.2	
29	CMH11-586	10	-	-	-	-	-	1.5	36.9	61.3	20.2	35.3	9.8	1.3	23.6	12.7	16.4	15	52.8	17.2	20.3	-	-	19.2	16.7	32.6	364	-	-	-	16.7	10.7	
30	HT 51412373	10.6	37.9	-	-	-	-	-	25.9	-	0.8	-	-	-	31.4	7.7	0.4	37.3	13.2	26	9.6	-	13.1	-	12.2	0.8	373	-	38.2	32.4	29.9	7.6	
31	QMH-1025	6.2	23.4	-	-	-	8.2	-	64.4	53.2	20.6	-	-	16.5	22.5	30.5	7.1	45.2	27.1	34.9	27.4	14.9	8.8	55	29.3	27.7	331	-	-	42.8	24	15.6	
32	BH 412066	5.6	-	-	-	-	4	6.7	49.9	-	12.6	-	-	-	4.5	27.1	-	18.1	19.1	22.8	27.9	6.6	-	-	10.2	-	295	-	118	63.3	40.2	7.5	
33	BH 412120	5.1	-	-	1.1	-	-	-	0.2	36.8	6.4	-	-	3.7	8.7	36.5	-	29.7	14.9	16.4	-	-	-	-	3.4	-	310	6.3	-	51.4	19.8	-	
34	MMH 3-13	-	-	-	-	-	-	-	-	0.1	-	-	-	-	10.4	-	-	-	-	-	-	-	-	-	-	-	301	-	48	-	8.5	-	
35	CMH11-584	-	5.7	-	5.5	-	-	-	37.9	35.5	10.1	-	-	-	-	17.9	-	25.1	39.2	20.8	6.5	49.2	0.8	25.8	22.5	21.2	346	14.3	-	-	20.5	9.1	

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9637																															
		ZN 1							ZN 2							ZN 3							ZN 4							ZN 5		OV'L	
		BAJA	BARA	KANG	UDHA	MEAN	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	UDAI	MEAN	MEAN	
36	BH 412063	12.3	-	-	0.4	-	-	13.7	-	-	-	2.1	18.5	7.7	-	-	3	31.8	19	0.6	8.7	-	-	-	1.4	1.6	245	-	36.7	-	3.2	-	
37	KDMH 100-3	-	-	-	0.5	-	-	29.2	58	30.7	25.2	-	18	2.2	17.8	4.7	-	-	5.1	0.3	3.5	0.1	-	-	-	-	370	16	-	55.9	24.6	0.8	
38	TI 8261	-	25.8	-	-	-	-	10.3	63.7	56.5	26.2	-	-	-	18	33.5	2.2	34.4	23.6	28	47.6	28.5	19.4	7.3	27.4	35.8	446	1.7	-	-	19.2	15.6	
39	CMH11-593	9.3	10.8	-	-	0.7	-	-	40.7	26.9	7.7	8.9	-	5.9	13	32.5	11.6	56.1	26	26.5	29.1	-	8.7	-	18.7	74.8	349	8.8	77.9	19.1	61.6	17.1	
40	CMH12-665	28.8	-	-	-	-	-	-	45.4	19	2.2	-	-	-	22.9	20.6	-	16.6	22.6	18.2	2.4	4.6	8.5	-	9.5	26.9	287	-	-	21.1	21.7	3.6	
41	KH-545	12	-	-	-	-	-	-	48.1	18.7	8.2	-	-	0.7	-	7.4	-	18.2	14.7	6.8	6.8	-	4.8	-	4.3	5.8	341	-	-	-	2.4	0.1	
42	QMH-1034	20.8	10.8	24.8	-	12.6	-	-	41.5	27.8	1.3	-	-	-	35.9	16	-	29.2	19.6	12.8	34	-	-	1.7	12.3	39	303	-	-	9.4	21.4	8.6	
43	LMH 114	5.9	8.6	-	5	-	-	12.6	37.7	14.9	10.3	-	-	2.6	-	11.2	-	29.6	7.5	11.1	18.1	-	6.4	-	11	11.4	388	-	16.2	32.5	26.4	7.5	
44	BH 412044	-	-	-	-	-	-	-	-	-	-	-	20.4	11.6	5.5	1.7	3.2	30.2	-	11.9	23	-	25.3	-	6.3	1.7	354	-	22.4	-	16.6	-	
45	KMH12-25	13.8	-	-	-	-	-	-	5.9	13	-	-	-	7.2	-	6.9	-	-	-	-	-	-	-	-	16.7	-	-	316	26.2	-	-	8.8	-
46	UDMH-101	-	-	-	-	-	-	-	40.4	0	-	-	-	18.9	20.2	-	-	-	-	-	-	-	-	-	-	-	357	-	-	-	-	-	
47	KH-517 Gold	-	-	-	-	-	-	-	36.2	10.6	7.9	-	-	-	16	14.5	-	26.7	-	17.9	14.4	-	-	24.7	1	7.4	244	0.1	37.9	23.6	25.3	-	
48	HT 51412616	-	10.6	-	0.2	-	-	-	49.2	10.6	7.6	-	-	-	16.6	-	-	30.8	8.9	17.4	47	-	25.1	4.4	20.1	35	388	8.9	33.6	98.1	55.1	12.5	
49	JH 13054	-	-	-	-	-	-	-	25.1	0.7	-	-	-	-	32.6	16.4	-	28.5	22	23.1	22.3	14.3	22.3	-	20.2	23.6	324	7.3	19.3	4.9	29.6	8	
50	AWLH 1	22	-	-	-	-	-	-	15.9	-	-	-	-	8.7	12.2	-	-	-	-	-	-	-	-	29.2	-	-	309	18.4	-	23.9	14.5	-	
51	DMRH1413	-	-	-	-	-	-	-	-	-	-	-	6.7	4.3	-	-	-	-	-	-	-	-	-	-	-	-	279	-	-	-	-	-	
52	JH 13139	-	-	-	9.5	-	-	-	27.4	14.7	-	-	-	1	24.4	-	-	30	6.1	6.9	-	-	-	-	0.7	10.6	350	16	14.1	78.4	40.2	-	
53	EH-2380	3.7	-	-	-	-	7.8	-	39.3	5	10.7	-	6.8	-	6	-	-	-	-	18.8	26.1	-	-	-	-	12.3	281	-	16.2	45	25.3	-	
54	JH 13224	-	-	-	5.5	-	10.5	-	34.7	40.7	16.6	-	-	3	14.7	13.1	0.5	19.6	16.4	10	31.9	10.2	19	-	11.3	15.5	264	13.1	38.8	92.5	44	10.5	
55	JH 13121	12.3	17.7	-	11.2	6.7	11.3	-	6.4	34.6	4	-	9.2	1.9	49.9	11.1	5.6	19.2	3.6	16.5	6.3	18.1	-	-	4.8	26	279	-	13.8	64.9	30.7	8.2	
56	JH 13204	-	-	-	4.6	-	0.1	-	0.9	20.5	0	-	-	-	19.3	9.9	-	8	-	9.7	-	30.1	-	-	-	12.2	254	6.7	-	61.3	20.9	-	
57	BH 412064	-	14.3	-	-	-	-	-	44.3	-	6.8	-	30	-	-	2.6	-	32.8	-	24	16.2	37.8	21.9	-	13.8	20.4	351	-	11.1	22.5	27.2	5.3	
58	JH 13215	-	-	-	-	-	17.4	21.5	11.1	10.1	-	13.4	7.8	5.2	-	-	42.2	-	33.3	28	19.2	19.3	-	17.3	28.5	245	2.9	31.2	55.2	37	8.7		
59	MMH 6-13	6.1	-	-	-	-	-	-	25.8	28.3	3.5	-	8	-	26.3	-	0.3	22.8	6.8	-	-	-	0	0.1	-	4.9	380	-	-	-	11	0.4	
60	PM 14107M	-	-	16.1	-	-	-	-	1.7	48.4	6.5	-	-	4.9	8.5	24	-	31.6	11.3	30.7	20.2	17.3	21.5	26.9	22.6	35	455	-	23.1	-	28.9	11.4	
61	IAHM 2013-11	22.1	-	-	-	-	-	-	18.7	-	-	-	2.3	0.7	-	-	-	-	-	-	-	-	-	9.1	-	-	365	-	-	-	0.1	-	
62	SHIATS MS2	-	-	-	10.7	-	-	1.2	23.3	12	1.2	-	-	5.8	-	-	-	4.4	-	-	-	-	-	-	-	-	447	8.7	-	27.7	24.5	-	
63	DMRH1301	4.5	-	-	-	-	-	-	42.4	2.2	7.1	-	1.1	-	-	-	-	5.3	-	-	-	-	-	8.3	-	294	8.9	9.1	-	7	-		
64	JH 13172	-	8.2	-	4.4	-	9.5	-	-	26.9	7.1	-	4.8	-	-	28.1	-	22.5	3.7	-	22	21.8	3	-	7.2	14.7	244	-	12.4	63.1	22.7	3.9	
65	BH 412065	4.2	8.7	-	-	-	-	-	43.2	-	1	-	-	10.1	-	-	-	20.4	9.2	6.5	-	6.3	1.7	-	4.6	-	295	1.4	33.8	-	13.2	-	
66	Zuari Nandiri	-	1.1	-	-	-	8.2	-	10.1	51.2	14.4	-	-	8.5	37.9	9.4	2.1	34.7	-	32.3	48.9	-	19.5	35.2	19.7	34.2	325	-	61.4	68.4	49.4	12.9	
67	AWLH 2	11.5	-	-	-	-	0.2	-	-	19.8	-	-	3.7	-	-	-	-	-	4.3	-	8	-	-	16.6	-	-	361	-	-	-	5.6	-	
68	IAHM 2013-97	-	-	-	-	-	-	-	37.2	-	-	-	-	6.3	-	-	-	20.8	-	-	-	-	-	3.2	-	-	376	-	-	-	0.2	-	
69	LMH 314	-	-	-	-	-	-	-	56.7	28.3	15.4	-	15.9	3.4	18.8	28.8	0.6	23.4	19	16.8	2.4	0.2	-	-	7.2	33.4	302	9.7	-	96.1	36	6.4	
70	JH 13119	10.9	-	-	-	-	-	-	31.7	0.5	1.9	-	6	26.9	12.7	8.6	43.1	-	4.1	9.8	-	8	7.7	6.9	25.2	316	3.9	45	35.7	39	4.5		

BR106

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9637																								OV'L						
		ZN 1				ZN 2				ZN 3				ZN 4				ZN 5														
		BAJA	BARA	KANG	UDHA	MEAN	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	UDAI	MEAN	MEAN
71	HKH343	8.9	-	-	1.6	-	-	17.7	-	2.3	1.9	-	-	6.9	8.2	-	-	-	-	-	-	-	-	-	-	-	326	-	86.4	14.8	24.9	-
72	MMH 2-13	-	-	-	-	-	-	41.2	11.5	4.9	-	-	5.4	-	-	-	-	-	-	-	-	-	-	-	-	331	4.8	3.4	25.2	13.4	-	
73	JH 13226	-	-	-	-	-	-	24.1	25.7	-	-	26	13.5	26	16.8	8.6	15.2	-	9.3	2.3	35.1	-	-	1.4	14.6	343	-	32.6	114	45.1	5.2	
74	MMH 5-13	-	-	-	0.3	-	-	25.3	-	-	-	-	4.5	7.8	-	-	-	-	-	-	-	-	-	-	-	293	-	-	11.7	3.3	-	
75	NMH-3612	-	-	-	-	-	-	6.5	49.1	31.4	12.3	-	-	-	17.8	13.9	-	39.8	1.7	20.3	7.8	7.3	7.2	-	8.5	-	256	-	44.2	68.9	30.5	4.5
76	HT 51412081	2.4	-	4.1	-	0.1	-	41.9	38.2	9.2	-	-	3.8	14.2	22.7	3.9	32	41.9	46.3	5.3	-	6.6	-	12.5	40.7	342	1	15.1	-	28.3	9.9	
77	GPS 05	18.5	-	-	-	-	-	12.9	-	-	-	-	0.2	-	-	-	1.7	-	-	3.5	10.6	1.7	-	-	4.9	280	5.4	-	68.7	27.8	-	
78	KF-105	-	-	-	6.8	-	0.5	39.4	34	10.4	-	16.6	6.5	18.8	-	1.9	-	3.2	-	12.9	41.8	-	-	-	6.6	386	-	4.2	-	11.8	-	
79	IAHM 2013-9	4	-	-	1.5	-	-	11.3	15.7	2.2	-	22.5	16.3	21.6	4	5.8	21.2	-	9.2	19.3	-	-	-	-	11.3	334	-	13.9	41.7	25.3	-	
80	DMRH1417	-	-	-	-	-	-	29.7	2.3	0.4	-	8.1	8.4	-	-	-	3	-	6.8	12.2	-	-	6.9	-	-	282	3.4	36.6	24	19	-	
81	MMHQPM-6-12-	-	-	-	-	-	-	14.7	35.3	0.9	-	14.9	-	12	-	-	25.7	3.8	14.8	-	-	-	-	-	6.5	316	-	-	41.8	19.4	-	
82	HKH344	10.5	-	-	-	-	-	12.8	-	-	-	-	-	-	11.2	-	-	15.2	-	27.6	-	-	-	-	-	270	1.3	8	-	9.1	-	
83	DH1415	-	-	-	-	-	-	-	7.2	-	-	-	-	-	27.4	-	-	-	21.1	0.6	-	-	-	-	-	4.9	250	-	-	42.3	15.7	-
84	DMRH1302	-	-	-	-	-	-	-	-	-	-	-	-	-	6.6	-	9.6	1.6	-	7.3	-	-	-	-	-	291	-	16.7	35.6	6.1	-	
85	GK-3120	3.2	-	11.9	0.1	-	-	42.4	27.4	3.7	-	12.5	19	52.6	22.9	17.5	52.4	26.8	7	36	-	18.1	15.6	20.9	10.6	370	-	-	-	6.8	10.9	
86	KMH-4811	0.3	22.1	-	-	-	-	29.7	60.7	17.1	-	23.9	0.5	-	27.3	5.6	43.6	37	13.3	2.6	-	25.3	-	16.4	19.5	322	-	56.3	16.3	31.4	12.1	
87	GPS 01	17	-	-	-	-	-	0.4	34.2	-	3.5	-	-	-	44.5	12.7	-	-	32.3	28.3	24.7	-	-	29.6	11.9	14.7	362	-	-	19.9	18.7	1.9
88	CMH11-619	11.8	-	-	2.5	-	-	-	9.3	-	-	-	-	-	20.6	-	14.8	23.8	16.9	21.3	-	9.1	0.4	13.5	16.3	384	-	62.2	19.8	29.5	3.3	
89	KDMH 100-8	9.6	-	-	-	-	-	7.6	-	-	-	12.9	13.5	-	-	-	-	-	15.7	-	-	-	-	-	377	7.1	80.4	68.4	39.8	-		
90	BL 900	-	-	0.2	-	-	-	3	14.8	-	-	-	2.7	-	20.3	-	59.9	12.2	31.7	24.1	7.2	19.6	15.7	25.2	-	402	25.3	45.1	47.7	42.3	9.8	
91	UDMH-114	3.6	-	-	-	-	-	-	-	-	-	-	3.1	-	-	-	-	-	-	-	-	-	-	-	-	281	-	-	14.6	-	-	
92	AH-1323	-	-	-	2	-	-	-	-	-	-	-	15.7	-	-	-	-	-	-	-	-	-	-	-	-	279	-	-	9.2	-	-	
93	VEH 14-2	-	-	1.8	2	-	-	46	-	-	0.1	-	-	-	1.9	-	15.9	11.8	5.9	23.3	-	11.5	15.4	8.5	-	398	31.5	50.8	41.3	41.7	4.1	
94	JH 13164	5.6	-	-	-	-	-	35.2	28.6	13.1	-	-	8.8	-	22.7	-	14	1.7	25.1	-	-	2.1	-	2.4	35.8	370	4.1	41.1	13.5	40.6	6.9	
95	PM 14108M	-	-	1.5	2.8	-	-	2.7	27	33.4	13.4	-	23.7	11.8	9.4	11.1	2.4	21.3	39.6	23.8	24.3	-	0.6	-	10.8	34.2	168	15.7	-	-	8.9	4.9
96	DMRH1410	22.1	-	-	-	-	-	28.4	10	-	-	-	-	21.1	-	-	15.6	2.1	10.1	11.2	-	6.4	-	2.1	22	428	-	7.8	72.8	39	3.1	
97	TMMH 826	-	-	-	-	-	-	55.7	53.5	18.4	-	-	4.3	9.3	18.3	-	19.3	40.2	11.3	9.8	12.3	5.5	-	14.4	6.5	276	-	33.6	66.4	28.5	9.1	
98	IN 8401	20.2	14.5	-	-	3.3	0.7	57.1	22.4	17.2	-	2	-	-	2.7	-	47.9	34.9	17.5	34.9	1.3	0.6	-	17.6	27.7	306	-	-	28	18.6	11.3	
99	HT 51412607	10.1	16.2	-	-	0.4	-	52.6	18.2	10	-	-	2.1	32	39.5	-	40	10.2	13.8	19	39	23.7	-	17.4	61.9	327	20	34.8	101	64.7	14.9	
100	JKMH 4848	-	-	4.4	-	-	-	25.9	44	13.7	-	34.4	9.2	5.2	13.6	8.6	40.2	47.7	35.2	23.9	43.9	2.9	-	25.8	-	490	-	6	70.3	33	15.8	
101	DH1411	0.6	-	-	-	-	-	59.1	38.8	17.6	-	-	-	-	18.4	-	45.8	12.5	16.8	31.3	-	3.2	-	12.5	56.2	328	-	49.1	3	38.7	8	
102	SMH-3901	9.3	-	-	-	-	-	37.7	4	-	-	-	1.3	9.3	22.8	-	21.3	69	9.8	29.1	22.1	4.2	42.9	28	19.5	303	6	26.2	49	35.6	10.7	
103	LMH 414	-	-	-	5.5	-	-	-	16	-	-	-	3.9	-	-	-	0.3	-	-	-	-	-	-	-	-	3.2	260	-	45.1	80	25.8	-
104	REH2013-1	6.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.3	-	-	-	-	351	7.2	-	-	4.2	-
105	DMRH1416	-	19.9	-	-	-	-	21.1	21.5	7	-	-	-	-	-	-	26	16.9	0.7	15.2	-	2	-	7	40.7	381	-	-	-	23	3.2	

TABLE No. 2 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9637																														
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5			OV'L							
		BAJA	BARA	KANG	UDHA	MEAN	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	UDAI	MEAN	MEAN
106	JH 13122	20.4	-	-	-	-	-	38.9	30.8	8.2	-	12.1	0.4	-	9.7	-	27.9	-	6.5	-	30.4	3.6	-	5.1	19.6	402	-	48.5	86.5	44.1	6.6	
107	ZMH-999	12.5	-	-	-	-	9.4	8.8	47.2	17	-	-	9.6	14.2	12.6	-	47.2	41.5	10.2	10.4	13.6	9.1	-	17.3	27.7	395	-	1.2	9.4	22.5	9.2	
108	REH2013-3	18	-	-	0.4	-	-	6.8	10.8	-	-	-	-	-	-	-	-	5.7	-	1.7	0.2	-	-	-	-	299	2.5	-	-	-	-	
109	JH 13114	-	-	-	-	-	-	44.8	31.9	7.2	-	-	-	29.4	-	-	38.4	22	16.8	0.3	-	-	-	7.9	12.2	360	35.1	13.4	-	32.6	3	
110	BH 412067	8.2	-	-	-	-	-	-	-	-	-	5.9	8.6	-	-	-	-	3.4	-	0.5	-	-	-	-	-	259	5.7	-	-	1.8	-	
111	JH 31605	-	-	-	-	1.9	-	49.9	28.8	17.7	-	7.8	7.6	-	7.8	-	44	33.7	36.3	46.1	-	11.6	13.4	27.9	27.6	322	-	43.5	15.7	28.9	12.8	
112	PM 14106M	23.5	7.3	41.7	1.4	19.9	-	70.6	49.3	13.2	-	-	6.3	8.3	17.5	2.6	50.6	17.6	27.6	2	-	9.2	-	14.6	44.8	244	-	65.1	11.1	36.7	15.8	
113	DH1403	21.1	-	-	-	-	-	0.3	18.8	0.1	-	-	4.2	15.5	-	-	-	8.1	28.4	30.3	-	-	-	4.4	4.1	382	-	36	79.4	30.7	2.2	
114	DMRH1412	0.3	24.9	7.8	-	5	-	-	-	-	-	37.3	7.7	19.8	6.5	11.5	-	-	-	-	12.2	-	-	-	-	309	15.2	-	-	2.8	-	
115	DMRH1308	-	2.8	-	-	-	-	40.5	20.7	5.2	-	14	7.5	11.7	29.3	1.3	53.3	21.9	13.4	9.7	16.7	8.5	-	16	30.1	410	-	58.4	69.8	41.6	10.4	
116	LMH 214	-	1.3	-	-	-	-	6.3	24	-	2	-	-	1.9	-	-	-	-	-	3.3	-	1.5	-	-	-	320	-	19.2	1.8	12	-	
117	Proline 786	10.5	-	-	0.4	-	-	40.6	24.7	13.3	-	7.6	-	-	3.1	-	20.8	23.8	6.7	22.3	-	-	-	6	0.1	256	13.5	1.5	18.7	19.2	3.7	
118	BL 897	26.3	-	-	-	-	12.8	37.1	27.8	16.7	-	13.4	14.6	-	11.2	-	29.7	34.6	25.7	36.3	-	13	23.4	23.9	-	259	-	47.8	37.9	22.4	11.7	
119	REH2013-4	-	-	-	-	1.8	-	-	-	-	-	-	0.4	-	-	-	-	-	-	-	-	-	-	-	-	251	-	-	-	-	-	
120	DMRH- 12-110	-	-	-	-	-	-	26.2	27.6	6.4	-	7.3	-	9.5	8.8	-	33	17.4	23	18.9	-	-	32.1	14.5	20.3	454	-	9.2	101	44	7.2	
121	QMH-1015	24.4	-	-	3.2	-	-	71.9	96	29.1	-	-	-	24	24.6	6.3	8.7	11	-	9.9	-	22.8	-	3.1	60.2	325	-	-	-	16	9.1	
122	DH1429	-	-	-	-	-	-	-	22.7	-	-	-	6.4	17.4	-	-	7.5	6.7	-	-	-	-	7.1	-	-	199	-	-	98.3	12.6	-	
123	EH-2381	-	-	-	-	-	12.7	21.8	22.8	13.6	-	-	-	5.4	11.9	-	23.5	25	2.9	5.5	-	-	-	4.2	13.9	321	-	28.8	45.3	26.6	2.7	
124	AH-1322	-	-	-	-	-	-	-	-	-	0.5	-	7.7	-	-	-	-	-	-	-	-	-	-	-	-	205	-	-	11.4	-	-	
125	BH 412062	4.7	-	-	-	-	-	20.4	-	-	-	4.9	5.4	-	-	5.5	14.8	17.4	27.7	20.2	-	-	-	5.9	-	313	0.9	39	-	6.5	-	
126	RMH 796	6.7	-	-	-	-	-	30.4	9.3	7.4	-	-	4.6	8.3	1.5	-	15.3	6.7	13	-	-	27.1	-	7.7	9.8	343	-	-	51.2	21.1	3.8	
	CHECKS																															
127	PMH4	-	-	-	6.8	-	-	34.4	25.8	9.3	-	12.5	2	41.8	21.3	6.2	19.7	-	19.2	18.9	33.2	-	-	9.3	21.2	403	4.6	58.2	59.5	48.5	10.4	
128	HM9	-	-	-	-	-	-	-	-	-	-	-	7.7	-	-	-	-	-	-	-	-	7.5	-	4.1	-	324	-	-	25.3	-	-	
129	HM10	-	-	-	-	2	-	-	13.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.8	337	21.2	-	28.3	20.6	-	
130	BIO-9637	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table No. 2 (Continued)

S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5								
		BARA	KANG	UDHA	Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean
112	PM 14106M	67.3	80.7	75.9	74.6	73.5	67.6	83.8	81.7	76.6	78.7	80.2	82.0	86.8	77.7	81.1	85.2	85.1	79.0	74.6	88.0	82.0	74.1	81.1	81.3	70.0	79.8	85.2	80.5	79.3
113	DH1403	68.3	79.9	74.2	74.1	76.5	68.3	83.6	82.7	77.8	77.6	80.7	81.5	88.6	79.2	81.5	84.2	83.3	80.4	81.7	78.3	81.8	73.6	80.5	80.0	73.8	80.0	84.1	81.3	79.8
114	DMRH1412	70.7	75.7	75.5	74.0	71.0	69.1	84.0	79.7	75.9	79.1	78.3	80.0	85.7	79.5	80.5	84.1	78.9	78.6	81.2	82.9	81.2	73.6	80.0	80.4	72.5	84.8	82.0	79.2	79.8
115	DMRH1308	67.3	75.6	73.4	72.1	71.5	66.7	83.8	85.3	76.8	79.3	80.2	79.5	84.4	79.1	80.5	83.0	83.2	80.4	78.8	70.4	83.1	75.9	79.2	79.5	71.9	85.5	84.1	79.9	80.2
116	LMH 214	68.3	76.6	73.7	72.9	75.5	69.8	85.0	78.2	77.1	77.5	80.7	79.5	83.5	77.1	79.6	84.0	79.6	78.8	78.7	78.7	82.8	75.9	79.8	79.0	69.5	81.9	89.2	79.4	79.8
117	Proline 786	68.7	78.6	76.6	74.6	77.0	67.8	87.3	84.8	79.2	73.5	80.5	81.0	88.5	75.1	79.7	83.3	79.8	77.8	76.9	79.5	80.9	76.3	79.2	78.4	70.8	79.1	84.1	80.2	78.5
118	BL 897	67.3	79.4	80.9	75.9	73.5	68.7	86.1	83.4	77.9	79.0	79.8	82.0	84.0	78.1	80.6	85.1	83.2	80.4	84.4	86.1	83.0	78.3	82.9	80.5	69.2	82.8	83.9	81.2	79.5
119	REH2013-4	71.7	77.3	73.6	74.2	76.5	67.1	84.3	79.5	76.8	-	78.7	81.0	82.4	75.9	79.5	80.1	77.2	76.5	78.8	79.1	81.2	71.3	77.7	76.9	69.6	80.5	82.6	79.3	77.8
120	DMRH- 12-110	71.0	75.7	73.7	73.5	71.0	66.4	86.1	77.1	75.2	77.0	79.3	84.0	83.1	77.8	80.2	80.7	77.9	78.1	77.6	76.0	-	76.9	77.9	78.7	72.9	76.4	84.7	81.8	78.9
121	QMH-1015	68.7	72.1	75.8	72.2	71.5	65.1	84.0	83.3	76.0	78.0	81.0	79.0	85.3	77.2	80.1	80.2	81.6	76.2	80.2	83.9	81.0	73.3	79.5	77.5	71.9	77.9	84.1	80.3	78.3
122	DH1429	67.7	76.5	73.4	72.5	75.5	69.6	86.8	78.9	77.7	79.9	78.7	81.0	84.5	71.2	79.0	84.4	81.3	77.5	79.2	78.9	81.4	77.7	80.0	77.5	69.6	81.3	82.3	80.9	78.3
123	EH-2381	72.7	73.3	71.1	72.4	77.0	69.3	85.7	80.1	78.0	71.0	78.2	80.0	83.2	74.3	77.3	81.2	80.4	76.0	76.0	76.1	82.4	75.9	78.3	77.8	72.1	77.5	84.1	81.6	78.6
124	AH-1322	72.0	77.4	76.9	75.4	75.5	68.1	88.1	83.5	78.8	76.5	79.5	81.0	81.7	73.3	78.4	83.3	78.8	76.7	80.3	70.1	78.8	74.3	77.5	77.7	67.6	83.5	84.5	81.2	78.9
125	BH 412062	71.0	77.0	73.9	74.0	72.5	67.7	86.3	87.2	78.4	78.6	78.6	79.5	87.7	75.9	80.0	85.3	78.5	80.0	82.2	82.1	80.4	75.0	80.5	78.3	71.9	80.9	89.5	78.1	79.7
126	RMH 796	74.0	77.7	73.3	75.0	74.5	68.7	87.0	81.1	77.8	79.6	78.0	83.0	84.9	76.9	80.5	81.8	80.5	79.4	78.8	80.8	83.0	76.0	80.1	79.0	70.9	81.7	81.9	80.6	78.8
CHECKS																														
127	PMH4	66.3	79.5	79.6	75.1	77.0	69.2	84.7	81.5	78.1	78.4	78.2	81.0	86.8	79.7	80.8	86.1	82.8	81.5	85.8	83.5	82.6	74.8	82.4	81.0	73.6	82.0	83.3	80.2	80.0
128	HM9	70.7	73.2	74.6	72.8	77.0	65.6	87.1	84.2	78.4	73.7	81.3	81.0	82.9	71.7	78.1	82.7	78.6	74.8	79.3	79.0	81.9	74.8	78.7	78.5	68.7	85.5	80.3	81.1	78.8
129	HM10	70.0	75.7	72.6	72.8	78.5	65.3	85.7	81.8	77.8	73.5	81.0	83.0	83.0	73.3	78.7	80.5	76.9	75.7	74.8	68.1	82.5	74.6	76.1	80.4	72.6	81.5	86.1	81.0	80.3
130	BIO-9637	71.2	80.1	73.3	74.9	80.5	69.2	85.6	83.3	79.7	77.4	78.0	83.0	87.8	77.0	80.6	82.8	80.3	77.0	79.3	80.1	81.7	73.7	79.3	79.3	67.3	82.3	84.9	80.1	78.8
	Loc. Mean	68.5	76.7	74.6	73.3	75.1	67.9	85.1	81.9	77.5	75.5	79.6	81.3	84.8	76.4	79.9	83.1	80.1	77.9	79.3	76.6	80.7	74.4	79.0	79.3	71.7	81.6	82.7	80.1	79.0
	C.D. (5%)	3.01	1.48	2.77	4.01	1.29	0.08	1.81	2.40	2.90	1.05	-	2.71	1.11	1.43	2.35	2.51	1.43	2.39	2.58	1.10	1.81	2.60	3.16	1.39	2.34	8.81	8.13	0.46	3.10
	C.V. (%)	2.74	1.20	2.31	2.79	1.07	0.07	1.53	1.82	2.69	0.86	-	2.07	0.81	1.16	2.37	1.88	1.11	1.91	2.03	0.89	1.39	2.17	3.81	1.09	2.03	6.72	6.12	0.36	3.16
	F (Prob)	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.51	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	0.87	0.00	0.00	0.29

Table No. 2 (Cont...)

		MOISTURE % AT HARVEST																												
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5								
		BAJA	BARA	KANG	UDHA	Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	BANS	CHHI	GODH	UDAI	Mean
1	IASH 11C022	27.2	22.3	27.3	24.0	25.2	12.0	23.1	21.1	18.7	18.7	24.1	19.2	30.5	23.7	31.7	25.8	27.6	24.8	23.6	10.8	17.2	16.8	20.2	20.1	16.9	17.7	16.3	22.2	18.3
2	CP.201	25.8	25.0	26.6	24.8	25.5	14.5	23.0	20.2	17.9	18.9	25.8	19.8	35.7	24.0	29.7	27.0	25.6	21.2	24.4	11.2	15.9	16.7	18.3	19.0	16.9	18.2	15.5	20.3	17.7
3	Srikar 4689	24.4	22.0	26.1	24.5	24.2	16.5	21.6	19.5	18.8	19.1	23.9	19.0	31.7	22.6	29.5	25.3	28.8	25.1	21.5	8.4	17.7	17.0	19.2	19.7	17.3	17.2	16.2	21.9	18.2
4	DMRM1402	24.7	23.3	26.9	25.0	25.0	14.5	23.9	20.5	18.1	19.3	24.8	17.7	31.5	24.7	30.5	25.8	28.1	23.9	19.4	8.6	18.2	16.9	21.2	19.5	17.0	19.3	16.7	20.6	18.4
5	JH 13142	25.7	23.3	26.3	24.5	25.0	11.5	22.3	21.1	16.6	17.9	25.0	19.9	29.2	24.8	28.5	25.5	25.5	22.7	22.1	14.0	15.2	17.5	18.9	19.4	17.1	18.8	16.6	21.0	18.4
6	HKH342	24.2	22.3	27.2	24.0	24.4	13.5	22.3	18.6	17.8	18.0	24.8	17.8	30.6	25.2	26.2	24.9	32.1	23.9	19.0	7.8	14.1	17.3	20.8	19.3	17.7	20.5	16.4	18.5	18.3
7	PMH 2277	24.2	24.7	27.1	24.5	25.1	16.5	22.1	19.9	16.7	18.8	26.1	19.6	32.1	25.3	31.9	27.0	27.3	22.5	20.2	9.3	18.6	15.7	18.6	18.9	17.3	17.7	16.3	21.4	18.2
8	DMRH1418	24.4	24.0	25.4	24.0	24.4	17.0	24.2	20.2	18.9	20.1	25.0	20.0	26.3	24.5	29.6	25.1	27.8	23.3	20.0	13.5	15.8	16.9	20.4	19.7	17.1	17.6	16.7	21.8	18.3
9	HT 51412182	25.1	25.0	27.3	24.8	25.5	17.5	21.9	24.0	18.7	20.5	25.3	17.9	29.5	25.2	33.4	26.3	25.8	25.0	25.7	11.2	19.1	17.4	17.9	20.3	17.1	16.5	16.2	22.5	18.1
10	JH 31607	25.4	23.3	27.4	25.5	25.4	15.5	22.8	21.2	16.7	19.0	25.9	19.2	32.3	25.3	29.8	26.5	23.9	21.1	19.8	12.2	16.8	16.4	18.8	18.4	17.0	18.4	15.5	18.2	17.3
11	DH1413	25.4	22.3	26.4	24.3	24.6	16.5	22.4	22.1	16.3	19.3	24.1	20.7	33.1	25.4	29.2	26.5	32.7	24.5	20.0	13.1	16.6	17.3	19.0	20.4	17.2	15.8	16.2	22.4	17.9
12	IAHM 2013-26	25.7	23.0	27.0	25.0	25.2	14.5	23.9	20.1	16.5	18.7	-	19.0	33.4	23.3	28.0	25.9	25.6	23.9	19.8	8.2	16.2	15.8	18.1	18.2	17.2	18.1	16.3	22.4	18.5
13	DAS-MH-307	24.9	23.3	26.7	23.8	24.7	18.5	22.2	20.9	16.5	19.5	23.9	19.9	27.8	22.3	29.2	24.6	22.9	22.5	18.6	7.2	17.0	15.9	19.0	17.6	17.7	17.8	15.7	16.1	16.8
14	MMH 4-13	25.1	23.0	27.2	25.3	25.1	17.5	23.5	19.0	16.9	19.2	25.0	19.5	31.3	25.3	28.2	25.8	24.1	21.7	20.3	12.7	17.1	16.3	19.2	18.7	17.3	17.1	16.0	20.2	17.7
15	NMH-3662	24.6	24.0	28.1	25.3	25.5	15.5	22.8	20.1	19.3	19.4	26.9	19.8	28.6	22.7	31.5	25.9	26.9	24.0	22.4	10.3	15.2	16.3	23.0	19.7	17.3	18.6	15.1	19.8	17.7
16	JH 13117	25.2	22.7	27.5	24.8	25.0	14.5	25.4	21.2	17.6	19.7	27.0	17.9	32.4	23.5	30.2	26.2	25.6	21.8	20.2	9.1	18.9	16.3	18.5	18.6	17.7	17.9	15.5	18.2	17.3
17	DH1401	24.7	23.7	26.6	24.5	24.9	17.0	23.5	20.5	16.8	19.4	24.9	19.2	32.1	24.9	30.6	26.3	24.5	21.7	21.8	9.8	16.6	15.9	19.3	18.5	16.9	17.3	15.2	21.6	17.8
18	DAS-MH-306	24.6	25.3	26.2	24.0	25.0	17.0	21.6	20.9	17.9	19.3	24.9	17.9	33.2	23.3	31.5	26.1	23.3	24.5	20.0	6.8	17.6	18.4	19.9	18.6	16.9	20.4	15.8	16.0	17.3
19	BH 412084	26.3	22.0	26.7	24.5	24.9	16.0	22.1	20.4	19.7	19.5	25.9	19.5	33.1	23.5	31.6	26.7	25.5	23.8	21.4	7.3	15.6	18.2	18.0	18.5	17.8	16.7	15.7	19.2	17.4
20	DH1405	25.5	24.7	27.8	25.0	25.7	15.0	24.0	20.1	18.2	19.3	26.0	19.0	29.4	21.8	30.4	25.3	24.7	21.1	22.6	6.9	16.4	16.2	20.1	18.3	17.3	17.1	15.5	23.4	18.3
21	EH-2235	25.6	22.3	26.9	24.3	24.7	12.5	21.9	20.2	17.3	18.0	24.1	20.7	29.9	23.5	31.4	25.9	22.2	20.7	23.7	7.9	16.1	16.0	21.6	18.3	17.2	17.7	16.8	22.1	18.5
22	EH-2372	24.1	21.7	27.0	24.3	24.3	13.0	22.2	20.8	16.3	18.1	22.7	19.2	31.8	23.8	28.2	25.1	27.9	21.7	24.2	10.2	17.7	16.1	18.8	19.5	17.5	18.4	16.5	19.2	17.9
23	CMH11-615	25.9	23.3	27.9	23.5	25.1	16.0	22.4	21.0	16.9	19.0	26.2	19.6	30.9	23.9	30.1	26.1	30.8	23.5	18.6	10.9	18.1	16.4	19.8	19.7	17.1	17.1	14.5	21.5	17.6
24	TMMH 801	25.8	22.7	25.6	23.5	24.4	16.5	21.3	21.7	16.7	19.1	23.9	19.0	31.8	23.2	28.2	25.2	27.5	24.6	25.8	6.8	13.4	16.1	19.4	19.1	17.2	16.6	16.2	17.8	17.0
25	Bio 719	25.3	23.3	27.3	24.4	25.1	15.5	22.0	22.2	17.0	19.1	23.0	20.1	30.8	22.9	29.2	25.2	26.8	27.1	18.9	12.6	17.8	15.3	16.5	19.3	16.7	20.2	16.8	21.1	18.7
26	UDMH-115	24.8	21.7	26.0	24.6	24.2	16.0	23.2	18.7	17.8	18.9	22.2	17.7	32.4	24.3	28.5	25.0	28.3	19.8	22.6	10.3	17.4	15.8	21.8	19.4	17.1	16.8	15.5	21.0	17.6
27	IAHM 2013-33	23.6	22.0	27.8	24.5	24.5	14.0	21.9	20.5	16.1	18.1	23.9	19.3	31.2	23.1	32.6	26.0	24.9	22.9	21.7	13.3	17.7	16.1	20.5	19.5	17.0	18.2	17.0	18.4	17.7
28	JH 13246	25.6	22.7	26.4	24.5	24.8	15.5	21.6	23.1	17.6	19.4	23.8	19.9	32.7	25.1	30.4	26.4	25.1	21.6	20.2	11.6	17.8	16.3	18.3	18.7	17.4	18.0	15.3	21.7	18.1
29	CMH11-586	25.7	24.3	28.4	24.0	25.6	14.5	22.8	23.7	17.5	19.6	27.0	19.8	31.2	24.8	29.5	26.4	24.6	22.8	19.9	10.1	17.1	17.7	20.9	19.0	16.9	17.3	16.5	20.4	17.8
30	HT 51412373	27.2	22.0	27.5	24.5	25.3	16.0	21.5	23.4	19.8	20.1	25.1	19.3	34.6	25.6	31.2	27.1	27.5	23.1	19.7	9.8	16.6	17.9	19.1	19.1	17.0	18.2	15.9	22.4	18.4
31	QMH-1025	25.1	21.7	27.0	24.8	24.6	13.5	24.4	22.9	17.4	19.5	25.0	19.2	28.3	25.3	32.1	26.0	28.7	23.4	20.3	7.8	16.6	17.3	19.9	19.1	17.1	17.8	14.9	18.5	17.1
32	BH 412066	25.5	23.3	27.1	24.5	25.1	15.5	22.2	20.1	16.7	18.6	23.9	19.2	33.2	25.3	32.2	26.7	23.7	21.0	24.4	8.8	17.2	15.3	19.8	18.6	16.8	19.0	14.5	18.0	17.1
33	BH 412120	24.2	23.3	27.6	24.0	24.8	16.5	22.6	20.1	16.7	19.0	24.0	17.9	31.5	26.3	29.5	25.8	24.0	19.9	21.5	11.3	17.8	16.0	19.4	18.5	17.5	17.5	14.7	17.7	16.9
34	MMH 3-13	24.7	21.7	26.4	25.0	24.4	13.5	21.6	21.1	17.1	18.3	22.9	19.4	27.6	25.3	29.0	24.8	25.2	19.6	17.8	6.9	16.8	16.0	18.8	17.3	16.9	18.2	15.6	20.8	17.9
35	CMH11-584	23.9	23.7	27.7	24.0	24.8	12.5	21.6	20.5	17.9	18.1	24.0	19.6	34.8	25.6	28.5	26.5	30.3	22.9	19.5	14.3	17.4	17.1	20.1	20.2	17.9	17.1	15.9	18.3	17.3

Table No. 2 (Cont...)

		MOISTURE % AT HARVEST																												
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5								
S.No.	PEDIGREE	BAJA	BARA	KANG	UDHA	Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	BANS	CHHI	GODH	UDAI	Mean
36	BH 412063	25.9	21.7	27.3	24.8	24.9	14.5	23.0	23.6	18.7	20.0	27.2	19.5	30.2	25.4	33.0	27.0	26.5	24.4	20.4	13.6	18.6	18.3	20.7	20.3	17.2	17.7	15.3	21.3	17.9
37	KDMH 100-3	26.4	22.7	26.9	23.8	24.9	15.5	23.6	20.6	16.5	19.0	23.0	17.9	32.1	24.5	28.2	25.1	25.1	20.1	21.1	9.0	17.4	17.5	19.2	18.5	16.6	18.3	17.6	22.9	18.9
38	TI 8261	24.7	25.3	26.9	24.8	25.4	17.0	21.6	24.0	19.5	20.5	25.0	20.3	31.9	25.4	32.1	26.9	32.2	25.6	21.4	9.1	17.7	16.2	21.9	20.6	17.1	18.1	16.3	21.7	18.3
39	CMH11-593	25.8	21.7	28.4	24.5	25.1	16.5	21.7	20.2	21.0	19.8	25.1	17.9	30.7	24.6	32.3	26.1	26.6	25.2	22.2	4.2	14.6	16.9	21.3	18.7	16.9	19.9	16.2	23.3	19.1
40	CMH12-665	25.7	22.3	27.1	24.5	24.9	16.0	23.2	19.9	16.4	18.9	23.2	19.9	29.9	23.0	29.1	25.0	25.6	18.3	18.0	10.9	16.9	15.7	19.2	17.8	16.9	18.9	16.4	19.6	18.0
41	KH-545	25.0	23.3	26.7	24.5	24.9	16.0	21.5	21.6	20.3	19.8	25.3	19.1	27.4	23.5	29.0	24.9	27.8	24.9	23.3	11.6	17.0	17.7	22.2	20.6	16.9	17.3	16.4	20.2	17.7
42	QMH-1034	27.0	21.7	27.4	24.8	25.2	17.0	22.7	23.5	17.2	20.1	25.4	20.2	29.8	24.9	31.1	26.3	31.2	25.3	20.0	13.1	16.5	17.4	20.7	20.6	15.7	18.7	15.3	19.4	17.3
43	LMH 114	26.3	23.7	27.1	24.5	25.4	17.5	23.0	19.3	16.8	19.1	25.1	20.6	31.1	25.4	28.3	26.1	25.3	21.7	23.4	11.4	18.1	16.0	19.6	19.3	17.3	17.3	16.2	19.9	17.7
44	BH 412044	26.0	23.3	28.4	24.3	25.5	15.0	22.4	20.3	16.8	18.6	25.0	20.4	31.7	23.6	32.0	26.5	27.5	22.9	23.9	11.6	16.8	16.3	20.3	19.9	17.5	18.4	15.5	17.8	17.3
45	KMH12-25	26.1	22.7	25.9	24.3	24.7	17.5	22.7	17.6	16.9	18.7	23.1	17.8	26.8	24.7	29.2	24.3	21.3	21.0	19.0	13.4	17.2	15.0	19.0	18.0	16.7	19.1	17.3	20.4	18.4
46	UDMH-101	25.8	23.3	27.2	24.2	25.1	17.5	22.0	18.8	20.2	19.6	22.8	19.0	27.0	24.0	27.5	24.1	26.0	17.9	18.5	9.7	17.2	15.6	21.1	18.0	17.0	18.3	17.2	20.8	18.3
47	KH-517 Gold	25.5	23.0	27.4	24.8	25.2	13.5	22.6	20.6	20.5	19.3	23.9	17.9	31.5	22.6	32.0	25.6	30.5	23.0	24.1	8.0	17.2	16.7	19.1	19.8	16.5	16.0	16.5	24.3	18.3
48	HT 51412616	24.3	24.0	27.2	23.8	24.8	14.5	22.3	22.7	18.9	19.6	23.3	17.3	30.1	23.9	31.0	25.1	29.4	23.7	21.2	8.2	15.5	16.2	18.0	18.9	17.5	19.0	17.2	22.1	19.0
49	JH 13054	25.2	21.7	27.4	24.8	24.8	15.5	22.7	21.0	17.2	19.1	25.5	19.7	30.0	22.7	29.5	25.5	26.9	23.2	23.0	12.4	17.8	16.3	19.8	19.9	16.6	19.0	16.3	22.5	18.6
50	AWLH 1	25.9	22.0	27.2	24.3	24.8	16.5	21.7	17.1	15.6	17.7	23.0	20.5	26.6	23.8	26.4	24.0	23.9	17.7	19.7	6.0	16.1	18.3	15.5	16.7	17.5	20.9	15.9	16.4	17.7
51	DMRH1413	25.7	22.7	26.1	24.0	24.6	17.5	21.9	19.3	17.2	18.9	-	19.7	31.7	22.8	31.8	26.5	26.0	20.7	20.7	6.5	16.9	15.7	19.2	17.9	16.7	17.9	15.6	21.1	17.8
52	JH 13139	24.9	23.7	27.1	24.5	25.0	16.5	22.7	20.9	17.0	19.2	25.1	19.6	32.3	24.8	27.6	25.9	28.7	21.0	20.6	10.7	14.8	16.0	19.6	18.7	17.2	19.1	16.8	22.1	18.8
53	EH-2380	24.6	21.7	27.2	25.0	24.6	13.5	22.8	19.4	16.6	18.1	23.8	19.9	31.3	23.4	27.8	25.2	26.3	20.9	17.6	9.7	17.3	15.5	18.3	17.9	17.3	17.6	16.7	19.1	17.7
54	JH 13224	25.1	22.7	26.6	24.0	24.6	12.5	22.9	21.9	16.7	18.5	25.1	19.4	32.8	25.0	30.9	26.6	26.8	24.2	23.7	6.4	17.2	16.6	19.6	19.2	17.4	19.7	16.0	22.0	18.8
55	JH 13121	24.9	21.3	27.4	24.3	24.5	13.0	22.3	20.5	19.3	18.8	25.8	20.4	29.2	25.7	31.3	26.5	26.5	19.3	18.5	9.1	17.8	16.8	19.6	18.2	17.1	16.8	15.7	18.8	17.1
56	JH 13204	25.3	24.0	27.1	24.8	25.3	14.5	21.6	22.3	17.9	19.1	23.1	19.2	28.1	23.8	31.0	25.0	24.8	23.0	22.4	9.8	17.6	18.9	21.3	19.7	16.8	17.2	15.8	20.9	17.7
57	BH 412064	25.6	23.0	27.2	24.0	24.9	15.5	24.7	20.6	19.7	20.1	25.0	20.2	33.2	25.4	31.3	27.0	28.8	23.0	24.1	11.3	16.1	18.1	19.8	20.2	18.0	19.4	14.7	22.4	18.6
58	JH 13215	23.9	22.7	27.3	25.0	24.7	15.5	23.2	22.6	16.8	19.5	24.9	19.1	28.9	22.3	29.2	24.9	25.8	22.2	19.4	9.1	17.7	18.4	22.5	19.3	17.3	19.0	16.4	20.9	18.4
59	MMH 6-13	24.7	22.7	26.4	25.0	24.7	15.0	23.9	20.9	16.7	19.1	25.1	19.9	33.3	25.2	31.2	26.9	26.3	23.8	19.5	8.1	18.5	16.0	18.4	18.6	17.4	17.9	15.7	17.9	17.2
60	PM 14107M	25.6	22.7	27.3	25.0	25.1	15.0	22.7	20.2	19.2	19.3	23.1	20.3	32.9	25.5	25.8	25.5	25.7	21.1	21.4	7.8	17.5	17.8	20.0	18.7	17.7	18.8	15.5	17.7	17.4
61	IAHM 2013-11	24.4	22.7	27.8	24.0	24.7	15.0	21.7	20.9	16.3	18.4	23.1	17.7	32.6	23.7	32.3	25.9	25.2	22.9	19.9	10.8	17.2	15.9	19.1	18.7	17.2	16.1	15.6	19.6	17.1
62	SHIATS MS2	25.0	24.3	26.3	24.5	25.0	16.5	22.1	21.6	16.9	19.3	24.9	17.6	27.3	24.8	28.3	24.6	24.4	23.1	19.0	13.3	16.6	16.5	20.2	19.0	16.9	19.3	15.8	15.8	17.0
63	DMRH1301	26.0	22.7	26.7	24.0	24.8	15.0	22.7	21.8	17.1	19.1	25.0	20.4	32.4	25.2	29.0	26.4	21.9	22.9	20.5	11.4	16.5	16.1	16.5	18.0	17.0	17.7	15.7	17.1	16.9
64	JH 13172	24.6	23.0	27.5	24.5	24.9	16.0	22.5	21.8	16.8	19.3	23.2	19.7	31.7	22.5	30.4	25.5	26.3	23.8	23.3	12.8	17.7	18.5	18.4	20.1	17.0	17.9	16.1	19.6	17.7
65	BH 412065	25.4	22.0	27.9	24.8	25.0	14.0	22.2	23.3	21.8	20.3	23.9	19.6	30.0	25.4	30.0	25.8	28.2	22.3	21.2	10.8	20.6	17.3	18.2	19.8	17.3	16.3	15.3	19.1	17.0
66	Zuari Nandiri	25.9	22.3	26.5	25.0	24.9	15.0	24.3	21.5	19.5	20.0	25.0	20.3	27.5	25.5	29.7	25.6	28.1	26.9	21.2	8.5	17.8	17.8	20.2	20.1	17.4	17.1	16.5	21.4	18.1
67	AWLH 2	25.9	23.3	25.9	24.0	24.8	16.0	21.0	19.2	15.9	18.0	23.1	17.9	27.8	22.9	28.0	23.9	24.2	17.7	17.7	6.5	15.7	16.1	18.0	16.5	17.9	17.6	15.8	20.7	18.0
68	IAHM 2013-97	25.2	22.0	27.0	24.5	24.7	12.5	21.3	20.7	16.6	17.8	23.1	19.8	26.2	23.8	25.2	23.6	25.3	24.8	19.6	6.0	14.5	15.5	19.8	17.9	16.8	15.5	16.2	19.5	17.0
69	LMH 314	23.9	23.3	27.9	24.0	24.8	16.0	21.5	20.0	17.7	18.8	23.8	19.9	29.5	25.6	27.8	25.3	26.7	21.4	22.8	9.9	18.9	17.0	17.6	19.2	17.7	18.8	16.2	18.0	17.7
70	JH 13119	25.3	21.7	26.0	24.5	24.4	14.5	21.5	21.7	17.6	18.8	26.0	19.0	31.8	24.8	27.3	25.8	22.9	23.2	20.0	10.2	17.9	16.3	21.2	18.8	17.1	18.0	15.3	21.5	18.0

Table No. 2 (Cont...)

		MOISTURE % AT HARVEST																													
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5									
S.No.	PEDIGREE	BAJA	BARA	KANG	UDHA	Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	BANS	CHHI	GODH	UDAI	Mean	
106	JH 13122	23.5	22.0	27.6	24.0	24.3	17.5	22.7	21.9	16.8	19.7	24.9	20.6	30.6	23.8	28.7	25.7	26.5	20.1	19.2	12.1	16.1	17.0	19.1	18.6	17.3	16.7	15.5	19.8	17.3	
107	ZMH-999	25.5	23.3	27.1	24.5	25.1	13.5	23.5	21.6	17.0	18.9	26.1	20.4	28.8	25.3	30.3	26.2	24.1	22.8	22.6	8.3	16.7	16.5	20.1	18.7	17.7	18.9	15.3	21.6	18.4	
108	REH2013-3	27.7	23.3	26.3	24.3	25.4	16.5	21.1	24.2	16.8	19.6	23.9	20.2	32.7	23.8	28.3	25.8	29.7	24.4	18.9	11.2	17.2	16.5	20.2	19.7	18.0	19.4	15.5	21.1	18.5	
109	JH 13114	26.4	22.0	27.8	25.0	25.3	13.5	24.2	21.1	17.7	19.1	24.2	19.5	31.5	24.2	29.5	25.8	25.8	21.4	21.3	14.6	16.9	16.2	18.7	19.2	17.2	19.2	14.7	20.9	18.0	
110	BH 412067	25.2	23.3	25.9	24.0	24.6	13.5	22.5	19.9	19.2	18.8	24.2	19.9	31.3	23.8	28.2	25.5	27.6	23.2	16.6	13.3	14.4	16.3	18.7	18.6	17.6	18.9	14.9	21.2	18.2	
111	JH 31605	24.9	21.7	27.5	24.0	24.5	14.5	23.1	23.1	18.1	19.7	24.8	17.9	33.6	25.5	29.7	26.3	25.5	22.3	22.6	7.0	17.8	17.2	20.5	19.0	16.9	16.6	16.0	20.8	17.6	
112	PM 14106M	25.1	23.7	27.0	24.5	25.0	17.5	22.0	20.2	17.2	19.2	25.1	20.3	33.2	24.9	28.7	26.4	25.3	22.9	20.7	10.7	15.4	15.4	18.5	18.4	17.3	17.8	16.4	19.4	17.7	
113	DH1403	26.1	22.3	27.4	24.5	25.1	13.5	23.0	21.9	16.6	18.7	25.8	19.5	30.7	23.6	30.0	25.9	29.5	21.7	20.4	8.8	17.6	15.9	19.1	19.0	16.8	17.0	17.2	17.8	17.2	
114	DMRH1412	25.2	22.0	27.6	24.5	24.8	16.5	20.7	18.9	17.2	18.3	25.0	20.4	33.1	24.6	30.1	26.6	24.1	18.1	18.7	8.4	16.4	14.7	16.6	16.7	17.3	17.8	16.8	19.3	17.8	
115	DMRH1308	24.3	23.3	26.9	24.0	24.6	13.5	22.1	20.3	21.0	19.2	23.9	19.2	29.9	25.5	30.1	25.7	26.1	25.6	24.7	11.1	18.8	16.3	18.1	20.1	17.2	17.7	15.8	19.8	17.6	
116	LMH 214	25.6	22.7	27.1	24.5	25.0	15.0	21.7	20.9	18.0	18.9	25.1	19.6	29.8	23.1	28.3	25.2	27.7	21.8	19.5	6.8	18.3	15.9	18.3	18.3	16.9	18.8	15.8	18.4	17.5	
117	Proline 786	25.8	23.0	26.0	24.0	24.7	14.5	22.2	20.5	17.9	18.8	26.1	20.3	34.4	24.9	28.3	26.8	27.0	22.4	21.5	10.7	15.6	17.7	18.1	19.0	17.2	19.1	15.3	16.9	17.1	
118	BL 897	27.4	22.3	27.2	24.0	25.2	17.5	23.4	18.2	16.7	19.0	23.0	19.2	27.3	25.4	29.1	24.8	25.4	22.9	24.2	11.4	17.5	16.2	18.8	19.5	17.0	17.5	16.7	19.5	17.7	
119	REH2013-4	25.2	23.0	27.2	25.3	25.2	13.5	21.9	21.7	19.4	19.1	-	19.5	28.1	23.2	31.5	25.6	27.2	25.5	21.2	9.2	16.4	16.8	20.2	19.5	17.0	19.0	16.6	23.0	18.9	
120	DMRH- 12-110	24.7	22.0	27.8	24.5	24.8	16.5	22.5	20.2	17.1	19.1	23.9	19.3	30.1	22.8	29.5	25.1	26.5	20.9	18.0	6.1	18.0	-	20.4	18.3	17.1	19.7	16.7	18.8	18.1	
121	QMH-1015	25.3	23.3	26.3	24.0	24.7	14.5	23.0	22.7	20.3	20.1	25.8	19.5	31.7	24.6	31.3	26.6	25.9	28.9	21.8	7.8	16.1	18.4	20.1	19.8	16.9	20.2	15.8	21.5	18.6	
122	DH1429	23.0	23.3	25.8	24.3	24.1	15.5	24.7	18.4	16.3	18.7	23.0	19.2	28.1	25.0	26.7	24.4	27.4	21.3	21.1	6.7	17.3	16.7	15.6	18.0	16.6	17.1	16.6	21.1	17.9	
123	EH-2381	25.3	22.0	27.8	24.3	24.8	14.5	23.4	19.5	14.5	18.0	24.9	20.4	31.6	22.2	31.1	26.0	25.6	20.6	23.5	16.1	15.6	17.3	19.0	19.7	16.7	16.5	14.5	21.4	17.3	
124	AH-1322	26.0	23.3	25.2	24.0	24.6	14.0	21.5	19.0	16.1	17.6	24.3	17.8	28.7	24.7	26.8	24.5	23.0	20.0	19.1	7.2	17.6	14.1	18.7	17.1	17.1	20.6	14.9	19.8	18.1	
125	BH 412062	24.3	21.7	26.9	23.5	24.1	17.0	24.0	20.1	17.0	19.5	24.1	17.9	31.8	22.8	31.2	25.5	20.0	24.0	23.7	13.3	16.1	16.7	19.0	19.0	17.2	17.8	17.2	13.7	16.5	
126	RMH 796	25.3	23.7	27.0	24.8	25.2	16.0	21.6	20.4	18.3	19.1	24.1	20.5	26.8	25.4	28.1	25.0	26.1	18.9	20.0	8.9	16.0	16.0	18.3	17.7	17.4	17.6	17.2	18.7	17.7	
CHECKS																															
127	PMH4	24.3	22.3	26.7	24.6	24.5	17.5	21.7	19.5	16.9	18.9	23.0	19.7	26.8	24.0	27.5	24.2	21.0	23.8	21.3	7.6	15.6	16.5	18.4	17.7	17.5	19.0	15.2	21.1	18.2	
128	HM9	24.8	22.0	25.8	24.0	24.2	17.0	22.0	17.6	16.8	18.3	23.1	19.6	28.7	25.9	27.8	25.0	26.0	18.6	22.2	8.7	14.6	16.9	18.8	18.0	17.3	19.7	15.3	19.6	18.0	
129	HM10	24.4	23.3	26.5	24.8	24.7	14.5	21.3	19.6	16.2	17.9	24.9	19.9	31.4	25.5	31.9	26.7	26.8	19.8	22.6	4.3	15.7	16.6	19.9	17.9	17.0	18.5	15.5	19.6	17.7	
130	BIO-9637	25.6	22.7	26.9	24.8	25.0	13.5	22.6	19.9	16.9	18.2	26.0	19.6	33.2	23.2	27.0	25.8	27.4	22.4	20.5	11.3	18.0	17.7	21.4	19.8	16.5	17.8	14.9	20.0	17.3	
	Loc. Mean	25.2	22.9	27.0	24.4	24.9	15.5	22.5	20.6	17.5	19.0	23.9	19.4	30.6	24.2	29.7	25.7	26.2	22.5	21.0	9.7	16.8	16.4	19.4	18.9	17.1	18.1	16.0	19.8	17.8	
	C.D. (5%)	0.88	2.15	0.90	0.68	1.05	1.13	0.08	0.81	1.33	1.85	0.85	-	3.65	0.98	0.99	1.75	3.36	1.00	2.98	1.10	1.55	0.55	1.91	1.86	0.62	3.36	1.42	0.42	1.28	
	C.V. (%)	2.17	5.85	2.07	1.73	3.04	4.54	0.22	2.82	4.73	6.99	2.20	-	7.42	2.53	2.08	5.47	7.98	2.78	8.82	7.07	5.72	2.10	6.13	9.38	2.23	11.55	5.52	1.31	4.67	
	F (Prob)	0.00	0.11	0.00	0.00	0.79	0.00	0.00	0.00	0.00	0.43	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	0.83	0.00	0.00	0.67	

Table No. 2 (Continued)

		STAND AT HARVEST ('000/ha)																															
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV'L									
S.No.	PEDIGREE	BAJA	BARA	KANG	UDHA	Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHIGODH	UDAI	Mean	Mean		
109	JH 13114	46.3	74.1	69.4	75.7	66.4	73.6	57.8	73.3	57.2	65.5	68.8	64.6	66.1	55.4	55.6	62.1	78.5	66.0	71.7	58.9	51.1	66.1	60.4	64.7	61.7	61.1	64.4	80.6	47.2	63.0	64.2	
110	BH 412067	62.0	66.7	66.9	74.3	67.5	75.0	56.7	68.7	58.3	64.7	66.7	61.1	66.7	58.3	54.9	61.5	72.2	66.0	67.8	55.6	52.8	58.9	55.6	61.3	62.2	59.0	63.3	80.6	56.9	64.4	63.5	
111	JH 31605	53.7	63.9	75.8	72.9	66.6	73.6	57.8	67.3	60.6	64.8	56.3	62.5	66.7	56.5	59.7	60.3	79.9	66.7	71.7	50.6	52.2	60.7	51.4	61.9	63.3	54.9	52.8	81.9	55.6	61.7	62.8	
112	PM 14106M	56.5	78.7	84.6	77.1	74.2	72.2	57.8	74.6	60.0	66.2	67.4	63.2	66.7	55.4	59.0	62.3	83.3	64.6	74.4	53.9	51.1	63.1	59.7	64.3	66.7	52.8	55.0	83.3	49.3	61.4	65.2	
113	DH1403	59.3	75.0	75.8	75.0	71.3	73.6	59.4	59.1	58.9	62.8	61.1	59.7	65.0	53.6	60.4	60.0	70.1	66.0	56.7	48.3	48.9	61.9	44.4	56.6	58.9	54.2	45.0	76.4	59.0	58.7	61.0	
114	DMRH1412	47.2	67.6	74.5	75.7	66.3	73.6	60.0	65.5	64.4	65.9	72.2	63.2	67.8	60.1	59.7	64.6	77.1	66.0	67.2	46.1	53.3	61.9	62.5	62.0	53.3	60.4	58.9	72.2	50.7	59.1	63.3	
115	DMRH1308	60.2	70.4	83.3	72.9	71.7	75.0	57.8	70.5	56.1	64.9	55.6	61.1	63.9	56.5	59.7	59.4	73.6	66.0	70.0	55.0	51.1	61.9	60.4	62.6	65.6	55.6	48.3	83.3	59.7	62.5	63.7	
116	LMH 214	40.7	70.4	73.2	73.6	64.5	73.6	60.0	60.9	55.6	62.5	66.0	59.7	62.2	50.6	54.9	58.7	44.4	63.9	53.9	35.0	48.9	58.9	55.6	51.5	56.7	59.7	52.8	81.9	47.2	59.7	58.4	
117	Proline 786	57.4	71.3	70.7	72.9	68.1	72.2	59.4	73.3	61.7	66.6	62.5	64.6	65.0	48.8	54.9	59.2	79.2	66.0	65.0	60.0	51.7	65.5	52.1	62.8	61.7	53.5	60.0	81.9	51.4	61.7	63.3	
118	BL 897	59.3	75.9	87.1	73.6	74.0	73.6	57.2	74.6	61.7	66.8	69.4	63.9	66.7	57.7	62.5	64.0	84.7	66.7	71.7	55.6	53.3	65.5	55.6	64.7	63.9	55.6	48.9	79.2	64.6	62.4	65.9	
119	REH2013-4	13.9	45.4	77.0	72.2	52.1	73.6	57.2	64.1	58.3	63.3	-	61.1	63.3	51.2	52.1	56.9	38.9	65.3	56.7	27.2	42.8	60.7	32.6	46.3	56.7	50.7	55.0	55.6	53.5	54.3	53.5	
120	DMRH- 12-110	53.7	71.3	74.5	74.3	68.5	72.2	58.3	70.5	58.9	65.0	70.1	63.2	66.1	59.5	56.9	63.2	81.3	66.7	67.2	51.7	51.1	-	54.9	62.1	62.8	59.0	60.0	79.2	63.2	64.8	64.4	
121	QMH-1015	55.6	66.7	73.2	75.0	67.6	73.6	58.3	72.3	58.3	65.7	73.6	63.9	65.6	58.9	55.6	63.5	76.4	66.7	72.2	60.6	50.0	63.1	49.3	62.6	70.6	54.2	57.8	72.2	31.3	57.2	63.0	
122	DH1429	50.0	79.6	69.4	75.7	68.7	73.6	57.8	66.4	60.0	64.4	56.3	62.5	66.1	59.5	54.9	59.8	75.7	66.0	69.4	56.1	53.3	59.5	56.9	62.4	55.6	50.7	51.7	79.2	60.4	59.5	62.7	
123	EH-2381	30.6	68.5	66.9	75.0	60.2	75.0	56.7	64.6	58.3	63.6	61.8	61.1	65.6	50.0	54.9	58.7	75.0	64.6	60.0	52.8	53.3	60.7	47.9	59.2	61.7	52.8	52.8	61.1	47.2	55.1	59.2	
124	AH-1322	53.7	69.4	66.9	71.5	65.4	73.6	61.1	66.4	60.6	65.4	68.1	62.5	64.4	56.5	58.3	62.0	75.0	66.7	63.9	51.1	51.7	64.3	57.6	61.5	57.8	54.9	46.7	81.9	54.9	59.2	62.4	
125	BH 412062	44.4	71.3	66.9	74.3	64.2	72.2	60.0	64.6	57.2	63.5	67.4	61.8	63.9	52.4	54.2	59.9	69.4	66.7	65.0	56.1	51.7	63.1	52.1	60.6	53.3	58.3	52.8	73.6	33.3	54.3	60.2	
126	RMH 796	62.0	72.2	64.4	76.4	68.8	72.2	58.9	71.0	57.2	64.8	61.1	61.1	65.0	63.1	53.5	60.8	72.9	66.7	70.0	48.3	50.6	63.7	60.4	61.8	60.6	61.1	53.9	79.2	59.7	62.9	63.4	
CHECKS																																	
127	PMH4	64.8	70.4	66.9	77.1	69.8	73.6	60.6	74.2	60.6	67.2	63.2	59.7	63.3	64.3	56.9	61.5	69.4	65.3	70.6	54.4	51.1	60.7	47.9	59.9	65.6	61.8	56.7	80.6	63.2	65.6	64.1	
128	HM9	41.7	63.9	78.3	74.3	64.5	73.6	57.2	68.2	60.0	64.8	61.1	62.5	63.9	45.2	54.9	57.5	75.0	66.7	69.4	45.0	51.1	67.9	52.1	61.0	52.2	46.5	53.3	77.8	54.2	56.8	60.6	
129	HM10	43.5	71.3	70.7	72.2	64.4	75.0	62.2	63.2	56.1	64.1	72.9	63.2	64.4	51.8	54.2	61.3	73.6	63.2	70.0	47.2	52.2	63.1	49.3	59.8	60.6	54.9	55.6	73.6	52.8	59.5	61.5	
130	BIO-9637	53.7	65.7	69.4	75.0	66.0	73.6	61.7	68.2	60.0	65.9	70.8	60.4	65.6	61.3	54.2	62.5	78.5	65.3	71.1	53.3	52.8	64.3	61.8	63.9	58.9	45.8	51.7	81.9	43.8	56.4	62.8	
	Loc. Mean	52.5	71.2	73.8	75.1	68.2	74.8	58.9	68.5	61.3	65.9	64.4	62.3	65.5	56.4	57.3	61.1	74.2	65.7	67.7	51.2	51.1	62.0	54.4	60.9	61.9	56.8	54.8	78.1	52.1	60.7	62.9	
	C.D. (5%)	9.35	10.66	6.99	3.76	7.60	4.31	3.32	6.57	4.67	3.82	6.78	5.75	3.84	11.31	6.64	4.33	12.71	1.69	6.68	3.69	4.14	6.37	10.31	4.29	5.44	10.69	13.41	6.87	6.69	7.01	2.45	
	C.V. (%)	11.08	9.31	5.89	3.11	8.02	3.59	3.50	6.89	4.74	4.17	6.70	5.74	3.65	12.47	7.21	5.69	10.66	1.60	6.14	4.48	5.03	6.44	11.77	6.71	5.46	11.70	15.22	5.47	7.99	9.28	7.04	
	F (Prob)	0.00	0.02	0.00	0.07	0.21	0.00	0.00	0.00	0.03	0.33	0.00	1.00	0.20	0.02	0.07	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.76	0.00	0.00	0.00	0.00	

Table No. 2 (Continued)

DAYS TO 50% POLLEN SHED																																
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV'L								
		BAJA	BARA	KANG	UDHA	Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND		VAGA	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean
115	DMRH1308	63.0	57.7	54.7	55.3	57.7	53.3	55.3	47.5	55.0	52.8	54.0	48.0	52.0	51.3	50.0	51.1	59.7	50.3	57.0	55.0	58.0	56.0	52.7	56.0	57.3	54.0	58.3	55.3	55.3	56.1	54.7
116	LMH 214	62.0	56.7	54.7	55.7	57.3	51.3	56.3	51.5	55.7	53.7	59.0	48.7	53.3	51.0	51.7	52.7	62.0	51.0	57.0	51.0	60.0	51.7	52.0	55.4	49.0	55.7	56.7	55.3	56.3	54.6	54.7
117	Proline 786	59.0	55.3	51.7	53.3	54.8	49.0	50.7	48.0	53.7	50.3	55.3	47.7	51.7	50.3	49.3	50.9	59.7	51.3	55.0	51.7	58.0	51.7	52.7	54.6	49.0	52.7	56.3	56.0	57.3	54.3	53.1
118	BL 897	58.7	57.0	54.0	55.3	56.3	55.0	51.0	51.3	56.3	53.4	58.0	48.7	54.3	51.7	48.3	52.2	59.3	51.0	56.3	49.7	58.0	52.0	52.3	54.4	52.0	55.0	57.7	57.3	55.3	55.5	54.3
119	REH2013-4	68.7	59.7	56.0	55.0	59.8	57.0	55.7	52.8	59.0	56.1	-	51.0	58.0	55.3	55.3	54.9	63.0	56.7	59.0	54.3	66.0	54.3	55.3	58.9	56.3	54.0	56.7	58.3	55.7	56.2	57.3
120	DMRH- 12-110	63.3	58.0	55.7	56.3	58.3	53.3	53.0	52.3	56.3	53.7	58.0	51.0	55.0	54.3	52.0	54.1	60.7	53.0	58.0	57.7	62.0	-	54.3	58.3	56.0	54.3	56.7	56.3	58.7	56.4	56.2
121	QMH-1015	64.7	59.7	56.3	55.3	59.0	51.3	51.0	52.0	54.7	52.3	57.0	48.0	56.7	55.3	53.3	54.1	61.7	56.0	58.7	53.0	63.0	57.0	56.0	58.2	55.0	55.0	58.7	59.7	57.0	57.1	56.3
122	DH1429	57.7	53.7	51.0	53.0	53.8	49.0	55.7	48.0	55.0	51.9	52.3	51.3	49.0	50.0	47.0	49.9	56.3	46.3	53.3	49.3	66.0	50.0	50.3	53.6	48.3	55.3	57.0	56.7	54.3	54.3	52.7
123	EH-2381	65.3	59.0	56.3	57.3	59.5	55.0	51.0	52.8	57.3	54.0	61.0	50.7	57.3	53.3	52.7	55.0	61.7	53.0	58.3	51.7	61.0	54.3	54.3	56.7	54.0	54.0	55.7	58.0	56.7	55.7	56.1
124	AH-1322	57.7	54.0	52.7	55.3	54.9	57.0	51.0	51.0	53.3	53.1	51.3	46.7	52.3	51.0	48.0	49.9	59.7	49.3	54.0	50.3	67.0	50.7	52.0	55.2	52.7	52.3	57.7	57.3	55.3	55.1	53.7
125	BH 412062	61.0	57.3	54.0	54.0	56.6	51.0	56.7	52.3	55.3	53.8	53.0	46.7	54.7	52.3	52.0	51.7	58.7	51.3	57.0	55.7	56.0	52.3	55.0	55.2	53.0	54.3	57.0	54.7	55.7	54.9	54.4
126	RMH 796	61.3	56.0	53.3	54.0	56.2	47.7	52.3	51.0	56.3	51.8	57.3	50.0	53.7	50.3	49.0	52.1	57.3	50.3	55.0	51.0	66.0	52.7	54.0	55.4	48.0	52.3	55.7	55.3	53.7	53.0	53.7
CHECKS																																
127	PMH4	58.0	51.7	51.0	53.3	53.5	45.3	52.0	48.8	50.3	49.1	50.7	49.3	52.0	50.7	49.0	50.3	57.7	52.0	54.0	50.7	57.0	52.0	51.3	53.9	53.0	54.3	55.7	56.7	54.7	54.9	52.5
128	HM9	61.0	57.0	51.3	53.7	55.8	47.0	50.3	49.3	51.3	49.5	50.0	46.7	53.3	52.3	50.0	50.5	58.3	49.3	55.7	50.0	67.0	53.3	53.7	55.6	51.7	53.7	60.0	55.7	54.3	55.1	53.4
129	HM10	60.0	57.3	54.0	55.0	56.6	46.3	50.0	53.3	54.3	51.0	57.7	48.7	55.7	53.7	52.7	53.7	60.3	51.3	57.0	52.7	60.0	53.7	53.3	55.8	51.0	53.0	56.7	59.0	55.3	55.0	54.5
130	BIO-9637	62.7	53.7	52.3	54.7	55.8	45.7	54.0	50.8	52.3	50.7	56.0	49.0	54.7	50.0	51.0	52.1	59.3	49.3	56.0	55.3	60.0	54.3	52.7	55.7	51.0	53.7	57.0	55.7	55.3	54.5	53.9
	Loc. Mean	61.4	57.1	54.3	55.0	56.9	51.8	53.7	51.0	54.8	52.8	55.3	49.6	54.4	51.7	50.8	52.4	60.1	52.0	56.8	52.6	61.1	53.5	54.8	56.0	53.0	54.1	56.7	57.0	56.5	55.5	54.8
	C.D. (5%)	2.61	2.38	1.67	2.76	2.25	2.34	1.18	2.17	2.01	3.69	2.08	3.71	2.52	1.51	2.01	2.19	1.63	1.21	1.17	1.89	0.38	2.03	41.57	1.98	2.13	2.26	4.43	2.46	0.93	2.05	1.08
	C.V. (%)	2.64	2.59	1.91	3.12	2.85	2.81	1.36	3.06	2.28	5.03	2.39	4.64	2.88	1.82	2.46	3.36	1.69	1.44	1.28	2.23	0.39	2.38	47.22	3.12	2.49	2.60	4.86	2.69	1.02	2.98	3.49
	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	0.00	0.00	0.00	0.00	0.00	0.72	0.23	0.00	0.00	0.00	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : VAGARAI 47.2%

Table No. 2 (Continued)

S.No. PEDIGREE	DAYS TO 50% SILKING																												OV'L		
	ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		Mean	Mean											
	BAJA	BARA	KANG	UDHA	Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM			HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS		CHHI	GODH
109 JH 13114	64.0	58.3	58.0	58.7	59.8	49.3	55.0	52.8	56.0	53.3	54.0	49.3	57.0	55.7	55.3	54.3	60.3	55.0	58.7	53.3	56.0	54.7	58.3	56.6	56.7	57.3	59.0	59.0	59.7	58.3	56.5
110 BH 412067	63.0	59.0	58.3	59.3	59.9	50.7	54.7	51.8	57.7	53.7	55.7	50.7	56.3	55.0	55.0	54.5	62.3	57.0	59.0	55.0	66.0	56.7	57.3	59.0	56.0	59.0	58.3	59.7	57.3	58.1	57.2
111 JH 31605	66.7	57.3	56.0	59.7	59.9	47.0	56.0	50.0	55.7	52.2	52.7	52.0	53.7	54.3	52.3	53.0	59.0	53.0	55.7	53.0	58.0	54.3	54.7	55.4	52.0	57.3	55.7	57.3	58.3	56.1	55.3
112 PM 14106M	62.0	57.7	58.3	58.7	59.2	53.3	58.0	53.3	55.7	55.1	59.3	50.7	56.0	56.3	54.3	55.3	60.3	54.0	56.3	58.3	66.0	55.3	55.3	58.0	57.0	57.7	58.7	58.3	56.7	57.7	57.1
113 DH1403	62.7	59.0	57.7	60.3	59.9	51.0	60.0	52.0	55.7	54.7	59.7	54.3	58.0	56.7	56.7	57.1	62.7	55.3	59.0	54.0	57.0	57.7	58.0	57.7	60.3	57.0	57.0	59.0	58.3	58.3	57.6
114 DMRH1412	63.3	57.7	57.0	59.3	59.3	48.3	54.7	47.8	54.7	51.4	56.0	51.7	56.3	55.7	54.7	54.9	58.0	49.3	54.0	52.0	60.0	52.3	52.3	54.0	52.3	57.3	58.0	58.3	54.3	56.1	55.0
115 DMRH1308	65.3	58.7	58.0	59.7	60.4	57.0	57.3	49.0	58.0	55.3	56.0	51.3	54.0	55.0	52.3	53.7	59.0	53.3	57.7	57.3	59.0	58.0	55.3	57.1	60.0	57.0	59.7	56.7	56.7	58.0	56.9
116 LMH 214	64.0	57.7	57.7	60.0	59.8	54.7	59.3	52.5	58.0	56.1	61.0	51.7	55.3	55.7	54.3	55.6	62.0	53.7	58.3	52.7	61.0	54.7	54.7	56.7	52.7	58.7	57.0	57.0	58.3	56.7	56.9
117 Proline 786	61.0	56.3	55.0	57.3	57.4	53.3	52.7	48.5	56.3	52.7	57.3	51.0	53.0	54.3	52.7	53.7	59.0	54.0	56.0	53.7	59.0	53.3	54.7	55.7	51.3	56.0	57.7	58.3	58.3	56.3	55.2
118 BL 897	61.3	58.0	57.0	59.3	58.9	57.7	53.0	52.3	59.7	55.6	60.0	52.0	56.0	55.3	53.7	55.4	60.3	54.0	57.7	51.3	59.0	54.7	55.7	56.1	54.7	58.3	58.7	59.0	57.3	57.6	56.6
119 REH2013-4	71.0	60.7	59.3	59.0	62.5	60.3	56.7	53.8	62.0	58.2	-	54.3	60.0	59.0	59.3	58.2	64.7	58.7	61.0	56.0	67.0	57.7	58.3	60.5	58.7	57.0	58.7	60.7	57.7	58.5	59.6
120 DMRH- 12-110	65.3	59.0	59.3	60.7	61.1	57.0	56.0	53.3	59.3	56.4	60.0	54.0	57.0	57.3	55.3	56.7	61.0	55.0	59.7	60.0	63.0	-	56.7	59.2	58.7	57.3	58.3	58.0	59.7	58.4	58.4
121 QMH-1015	67.0	60.7	59.7	59.3	61.7	54.7	52.0	52.8	57.3	54.2	59.0	51.0	58.7	58.7	56.7	56.8	62.3	58.3	60.0	54.0	64.0	59.3	58.0	59.4	57.0	58.3	60.3	61.0	58.7	59.1	58.4
122 DH1429	59.7	54.7	54.3	57.0	56.4	53.3	57.7	48.8	58.7	54.6	54.3	54.3	51.0	54.0	51.7	53.1	57.3	48.3	53.7	51.3	67.0	52.0	51.7	54.5	50.7	58.3	58.0	57.7	56.7	56.3	54.9
123 EH-2381	67.3	60.0	59.3	61.0	61.9	57.7	52.0	53.8	60.3	55.9	63.0	53.3	59.3	57.3	57.0	58.0	63.3	55.0	60.7	53.7	62.0	56.3	57.0	58.3	56.3	57.0	57.0	60.0	58.7	57.8	58.3
124 AH-1322	59.7	55.0	56.0	60.0	57.7	60.3	52.0	52.3	56.7	55.3	53.3	49.3	54.0	55.0	52.3	52.8	60.7	52.0	55.3	51.7	68.0	52.3	55.3	56.5	55.0	55.3	58.7	59.0	57.3	57.1	55.9
125 BH 412062	63.0	58.3	57.7	58.0	59.3	55.3	59.7	54.3	58.3	56.9	55.0	50.0	56.7	56.0	55.7	54.7	59.7	53.7	58.0	57.7	57.0	54.7	58.0	57.0	56.7	57.3	59.0	56.3	57.3	57.3	56.9
126 RMH 796	63.3	57.0	56.7	57.7	58.7	51.0	54.3	52.5	59.3	54.3	59.3	53.0	55.7	54.3	53.0	55.1	59.0	52.7	55.7	52.7	67.0	54.3	55.0	56.6	52.0	55.3	56.0	57.3	55.3	55.2	56.0
CHECKS																															
127 PMH4	60.0	52.7	54.3	57.3	56.1	48.3	54.0	50.3	53.3	51.5	52.7	53.0	54.3	54.7	53.3	53.6	57.0	54.0	56.0	52.7	58.0	53.7	52.7	54.9	56.7	57.0	57.0	58.7	55.7	57.0	54.7
128 HM9	63.0	58.0	54.3	57.7	58.3	50.0	52.3	50.3	54.3	51.7	52.0	49.3	55.3	55.3	54.0	53.2	60.3	52.3	58.0	51.7	68.0	55.0	56.7	57.4	55.3	56.7	60.7	57.7	56.7	57.4	55.8
129 HM10	62.0	58.3	57.7	59.7	59.4	49.0	52.0	54.3	56.7	53.0	59.7	52.0	57.7	57.0	56.3	56.5	61.3	53.3	59.3	54.7	61.0	55.3	55.7	57.2	54.7	56.0	58.3	61.0	56.7	57.3	56.8
130 BIO-9637	64.7	54.7	55.3	58.7	58.3	48.7	56.0	51.8	55.3	52.9	58.0	52.3	56.7	54.3	54.7	55.2	60.7	51.3	58.0	58.3	61.0	53.7	55.3	56.9	54.7	56.7	58.0	58.7	56.7	56.9	56.2
Loc. Mean	63.5	58.1	57.6	59.1	59.6	55.3	55.9	52.1	57.8	55.2	57.3	52.6	56.4	55.6	54.5	55.3	61.1	54.6	58.2	54.7	62.1	55.2	56.2	57.5	56.8	57.1	57.9	58.8	58.1	57.7	57.1
C.D. (5%)	4.05	2.38	1.48	2.79	2.40	2.09	1.18	2.27	1.94	3.71	2.08	1.77	2.57	1.66	1.93	1.99	2.06	3.46	1.54	2.04	0.57	2.27	2.89	1.89	2.26	2.26	4.60	2.59	0.93	2.12	1.07
C.V. (%)	3.96	2.55	1.59	2.93	2.89	2.35	1.31	3.13	2.09	4.83	2.31	2.10	2.84	1.85	2.20	2.90	2.10	3.95	1.64	2.32	0.57	2.56	3.20	3.13	2.47	2.46	4.94	2.74	1.00	2.96	3.38
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	0.00	0.00	0.00	0.00	0.00	0.67	0.09	0.00	0.00	0.00	0.00

Table No. 2 (Continued)

DAYS TO 75% DRY HUSK																														
S.No.	PEDIGREE	BAJA BARA KANG UDHA				ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		OV'L						
		Mean	KANP	KARN	LUDH	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH		UDAI	Mean	Mean			
112	PM 14106M	101.7	112.7	97.0	97.0	102.1	97.3	90.0	88.5	91.9	87.7	90.3	85.0	94.0	85.0	88.4	94.0	96.0	92.0	105.3	98.7	91.7	96.3	116.3	74.7	90.0	88.3	85.7	91.0	93.9
113	DH1403	106.0	116.0	96.7	96.7	103.8	98.0	83.0	88.3	89.8	92.3	90.0	84.0	94.0	92.0	90.5	95.3	97.7	90.3	96.0	83.3	96.0	93.1	120.0	73.0	90.3	89.3	89.3	92.4	93.8
114	DMRH1412	106.7	115.0	96.7	97.3	103.9	95.0	78.7	82.3	85.3	88.7	88.7	84.7	92.0	86.7	88.1	89.0	90.3	87.0	99.0	94.0	90.7	91.7	107.0	76.0	91.7	88.3	82.3	89.1	91.6
115	DMRH1308	106.7	116.0	97.0	96.3	104.0	97.0	86.3	83.5	88.9	87.3	88.0	82.0	93.3	87.7	87.7	93.3	94.0	91.7	98.0	98.0	92.7	94.6	118.3	75.0	91.0	88.3	89.3	92.4	93.5
116	LMH 214	103.3	114.3	96.7	98.0	103.1	97.3	86.3	89.5	91.1	89.3	91.0	85.3	94.0	87.0	89.3	93.7	94.0	87.7	100.3	94.0	92.7	93.7	114.0	75.3	91.7	88.7	87.7	91.5	93.6
117	Proline 786	106.0	111.0	94.0	96.7	101.9	98.0	82.7	82.3	87.6	85.7	89.0	81.0	92.7	85.3	86.7	94.7	91.0	89.7	98.0	94.0	94.0	93.6	114.0	74.3	91.0	89.3	87.0	91.1	92.2
118	BL 897	108.7	115.0	96.0	97.0	104.2	98.0	85.0	88.8	90.6	84.3	88.7	81.7	92.0	87.0	86.7	94.7	96.0	86.3	98.0	98.7	93.7	94.6	110.0	75.7	91.7	90.7	87.7	91.1	93.3
119	REH2013-4	110.0	117.0	96.0	97.3	105.1	95.0	89.7	89.0	91.2	-	89.0	86.7	95.3	94.7	91.4	98.0	100.0	91.7	106.3	99.3	95.7	98.5	123.3	75.7	89.0	89.7	88.7	93.3	96.2
120	DMRH- 12-110	105.7	116.0	97.3	97.7	104.2	97.0	87.0	88.5	90.8	86.3	90.3	84.7	94.0	89.7	89.0	95.0	95.3	93.0	102.3	-	94.3	96.0	114.0	75.7	91.0	87.7	85.7	90.8	94.0
121	QMH-1015	109.7	118.0	98.0	97.0	105.7	97.3	84.0	89.3	90.2	91.3	88.3	86.0	96.0	91.7	90.7	100.0	90.7	90.3	105.3	100.0	95.7	97.0	120.3	75.3	91.3	91.0	83.0	92.2	95.2
122	DH1429	100.7	110.7	93.3	96.3	100.3	95.3	82.7	82.8	86.9	81.3	88.0	83.3	91.3	81.3	85.1	88.3	89.0	86.3	106.3	94.7	89.0	92.3	108.3	75.3	90.0	89.0	88.7	90.3	91.0
123	EH-2381	109.0	116.7	97.3	97.3	105.1	93.3	85.0	87.8	88.7	91.0	89.0	86.0	93.3	86.0	89.1	95.0	94.3	89.7	101.0	94.7	95.3	95.0	112.0	75.3	89.7	90.0	89.7	91.3	93.8
124	AH-1322	101.3	108.7	94.0	97.0	100.3	90.3	82.0	86.3	86.2	81.7	87.7	83.0	92.0	83.7	85.6	92.0	91.0	86.7	106.7	95.3	92.3	94.0	109.0	74.0	92.0	90.7	87.7	90.7	91.5
125	BH 412062	104.3	115.0	97.0	96.0	103.1	91.0	85.7	88.8	88.5	81.3	87.0	84.3	90.7	87.3	86.1	94.0	92.0	90.7	96.0	93.3	96.0	93.7	116.3	74.0	89.0	88.0	84.0	90.3	92.3
126	RMH 796	101.0	116.0	96.0	97.0	102.5	94.7	85.3	88.3	89.4	90.7	89.3	83.0	90.7	84.0	87.5	92.7	93.0	87.7	106.3	94.7	92.3	94.4	108.0	76.7	88.7	61.3	84.3	83.8	91.4
CHECKS																														
127	PMH4	102.7	106.7	93.3	96.3	99.8	93.0	82.0	84.5	86.5	80.7	88.3	84.7	92.0	85.0	86.1	94.3	91.7	87.7	97.0	94.0	90.0	92.4	114.0	74.3	90.3	89.0	88.7	91.3	91.3
128	HM9	105.7	114.7	93.3	96.3	102.5	93.3	81.3	84.3	86.3	81.7	87.0	85.3	93.3	87.7	87.0	92.0	92.0	86.7	107.3	97.3	94.7	95.0	115.3	75.7	93.7	90.7	89.0	92.9	93.0
129	HM10	108.7	115.3	97.0	97.3	104.6	93.7	87.0	90.5	90.4	90.3	88.7	86.7	93.3	94.3	90.7	92.7	97.3	91.0	100.0	98.0	93.3	95.4	115.3	74.7	89.0	89.3	89.0	91.5	94.5
130	BIO-9637	104.7	109.0	94.3	96.7	101.2	92.3	83.0	89.0	88.1	85.3	87.0	84.0	94.0	87.0	87.5	92.0	91.3	91.7	100.0	95.3	94.0	94.1	108.0	77.0	90.3	89.7	86.3	90.3	92.3
	Loc. Mean	105.5	114.2	96.7	97.0	103.4	92.3	85.2	87.5	88.3	84.2	88.7	84.5	93.1	87.9	88.1	94.4	93.8	90.2	101.2	95.7	94.3	95.1	113.8	75.0	90.2	89.0	87.5	91.1	93.2
	C.D. (5%)	4.15	3.57	1.79	1.28	3.02	2.33	1.18	3.41	4.61	2.31	1.93	3.16	2.44	3.33	2.38	3.44	2.55	3.67	1.14	6.94	3.50	2.67	6.93	2.64	5.13	6.83	0.97	3.55	1.42
	C.V. (%)	2.44	1.94	1.15	0.82	2.10	1.57	0.86	2.80	3.25	1.71	1.36	2.32	1.63	2.35	2.17	2.27	1.69	2.53	0.70	4.51	2.31	2.47	3.79	2.18	3.54	4.77	0.69	3.13	2.63
	F (Prob)	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.20	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	0.81	0.86	0.12	0.00	0.03	0.00

Table No. 2 (Continued)

S.No. PEDIGREE	PLANT HEIGHT(cm)																														
	BAJA BARA KANG UDHA				ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		OV/L								
	Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean	Mean				
109 JH 13114	240.0	228.3	231.7	226.8	231.7	171.7	225.0	233.8	275.0	226.4	206.4	168.5	170.0	176.6	198.3	184.0	207.5	189.3	248.3	178.3	145.0	239.0	140.7	192.6	249.5	218.7	191.7	178.3	213.3	210.3	206.1
110 BH 412067	246.7	213.0	226.7	212.6	224.7	170.7	218.3	222.5	257.0	217.1	202.4	146.0	164.2	168.1	183.3	172.8	186.0	193.0	239.0	163.3	153.3	228.7	152.0	187.9	220.5	210.7	183.3	180.0	200.0	198.9	197.7
111 JH 31605	220.0	212.0	241.0	208.5	220.4	181.7	218.3	218.8	268.7	221.9	190.4	173.7	190.0	169.5	200.0	184.7	202.0	201.5	250.7	183.3	175.0	228.0	159.5	200.0	255.2	217.0	126.7	185.0	210.0	198.8	203.5
112 PM 14106M	218.3	233.3	232.0	215.3	224.7	185.0	201.7	246.3	277.7	227.6	205.3	161.7	171.7	174.7	180.0	178.7	200.5	193.1	242.3	170.0	140.0	233.0	163.4	191.8	238.8	214.0	165.0	178.3	200.0	199.2	201.7
113 DH1403	240.0	190.3	250.3	216.4	224.3	190.3	141.7	218.8	253.3	201.0	187.6	156.6	145.5	176.2	183.3	169.9	175.5	187.3	228.7	170.0	166.7	229.7	122.3	182.9	226.0	218.7	151.7	178.3	175.0	189.9	191.2
114 DMRH1412	218.3	219.0	255.0	207.9	225.1	199.3	183.3	218.8	227.3	207.2	187.8	172.2	176.3	191.3	185.0	182.5	162.0	188.9	217.3	141.7	146.7	175.7	134.1	166.6	200.3	225.7	180.0	173.3	186.7	193.2	191.0
115 DMRH1308	233.3	214.3	235.3	206.8	222.5	188.0	190.0	238.8	269.7	221.6	179.0	143.9	171.8	185.1	190.0	174.0	202.5	205.3	232.3	165.0	175.0	229.7	153.1	194.7	232.7	207.3	156.7	173.3	198.3	193.7	199.1
116 LMH 214	225.0	223.3	261.0	209.7	229.8	166.7	215.0	236.3	269.3	221.8	210.4	154.4	183.0	180.0	185.0	182.6	203.5	192.1	235.7	191.7	148.3	232.7	145.7	192.8	247.1	225.3	170.0	190.0	220.0	210.5	204.8
117 Proline 786	225.0	214.3	236.3	219.3	223.8	176.7	206.7	218.8	263.0	216.3	177.0	154.3	165.0	175.9	160.0	166.4	173.0	201.1	229.7	161.7	148.3	229.0	143.8	183.8	242.6	170.7	178.3	193.3	185.0	194.0	194.0
118 BL 897	223.3	215.0	253.0	224.4	228.9	182.3	230.0	228.8	238.0	219.8	196.3	142.4	174.8	190.7	185.0	177.8	177.0	201.9	247.0	198.3	133.3	235.0	149.2	191.7	251.2	224.0	175.0	181.7	213.3	209.0	202.8
119 REH2013-4	211.7	201.3	252.3	192.9	214.6	186.3	186.7	232.5	259.3	216.2	-	143.5	168.0	192.7	193.3	174.4	197.0	185.2	222.7	173.3	151.7	219.7	146.7	185.2	237.8	192.0	186.7	170.0	181.7	193.6	195.2
120 DMRH- 12-110	260.0	228.3	272.3	222.6	245.8	195.0	198.3	240.0	289.0	230.6	199.3	169.4	170.5	195.1	203.3	187.5	209.5	195.4	258.0	170.0	183.3	-	158.0	195.7	246.7	197.0	175.0	178.3	215.0	202.4	209.6
121 QMH-1015	233.3	209.7	242.0	231.9	229.2	199.0	216.7	250.0	255.7	230.3	194.4	161.7	165.2	192.1	178.3	178.3	195.5	188.3	251.0	186.7	170.0	238.0	134.6	194.9	234.3	190.3	181.7	191.7	176.7	194.9	202.7
122 DH1429	215.0	207.3	223.0	198.1	210.9	176.0	121.7	212.5	235.3	186.4	167.3	146.0	157.0	175.0	171.7	163.4	171.0	177.8	218.7	156.7	138.3	222.0	144.8	175.6	211.1	224.0	171.7	178.3	165.0	190.0	183.4
123 EH-2381	231.7	220.7	264.0	182.9	224.8	178.3	231.7	227.5	270.7	227.0	189.8	168.5	180.7	179.5	198.3	183.4	217.5	202.0	246.0	203.3	160.0	241.0	153.4	203.3	247.3	207.0	161.7	201.7	230.0	209.5	207.8
124 AH-1322	223.3	185.7	214.0	195.3	204.6	172.7	188.3	211.3	232.0	201.1	176.3	154.0	163.2	177.7	186.7	171.6	180.0	182.7	219.7	158.3	131.7	225.0	125.3	174.7	215.1	204.0	171.7	171.7	191.7	190.8	186.3
125 BH 412062	231.7	211.0	244.0	214.1	225.2	181.7	213.3	237.5	250.0	220.6	203.5	157.0	163.5	193.5	196.7	182.8	188.0	190.5	240.3	171.7	191.7	226.7	118.1	189.6	243.6	212.0	185.0	163.3	166.7	194.1	199.8
126 RMH 796	208.3	209.0	229.7	199.4	211.6	189.3	176.7	216.3	253.3	208.9	181.6	148.5	138.0	175.6	181.7	165.1	177.0	187.9	216.0	155.0	153.3	215.0	139.2	177.6	234.7	211.0	186.7	170.0	193.3	199.1	189.9
CHECKS																															
127 PMH4	198.3	191.3	224.0	190.4	201.0	194.7	196.7	220.0	242.0	213.3	182.3	140.7	156.3	176.5	178.3	166.8	177.5	168.3	221.0	158.3	145.0	203.7	151.5	175.0	209.7	210.3	173.3	171.7	181.7	189.3	186.5
128 HM9	215.0	188.7	212.0	205.3	205.2	175.0	201.7	217.5	237.0	207.8	191.9	145.2	143.8	177.1	166.7	164.9	177.5	188.9	210.0	146.7	140.0	237.0	126.8	175.3	215.8	200.7	168.3	170.0	191.7	189.3	186.0
129 HM10	221.7	202.3	247.0	222.6	223.4	179.3	211.7	237.5	270.0	224.6	192.8	163.1	176.7	176.9	190.0	179.9	188.5	187.8	243.7	180.0	180.0	231.3	150.9	194.6	251.1	205.7	181.7	175.0	208.3	204.3	203.0
130 BIO-9637	225.0	236.7	244.0	186.6	223.1	181.3	241.7	238.8	275.0	234.2	191.2	172.5	172.7	179.5	180.0	179.2	198.0	213.3	227.0	201.7	160.0	234.3	138.3	196.1	247.3	179.0	168.3	201.7	210.0	201.3	204.2
Loc. Mean	224.0	209.4	237.8	208.0	219.8	181.7	197.3	228.3	257.8	216.3	185.5	157.5	162.6	178.2	182.9	174.1	189.6	189.7	232.9	168.8	156.2	220.9	140.9	185.8	233.1	205.2	171.9	178.3	190.1	195.7	195.8
C.D. (5%)	24.82	27.25	7.56	34.39	18.90	8.99	6.13	21.27	11.52	19.49	54.97	5.62	16.22	14.57	8.77	15.01	24.80	7.45	14.99	12.42	29.36	23.83	30.23	12.59	20.40	45.32	27.43	26.50	7.03	19.01	7.35
C.V. (%)	6.89	8.09	1.98	10.28	6.18	3.08	1.93	6.70	2.78	6.48	18.43	2.22	6.21	5.09	2.98	6.94	8.13	2.44	4.00	4.58	11.69	6.71	13.34	6.46	5.44	13.74	9.93	9.25	2.30	7.82	6.77
F (Prob)	0.00	0.00	0.00	0.08	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	0.07	0.00	0.00	0.05	0.21	0.14	0.00	0.00	0.00

Table No. 2 (Continued)

		EAR HEIGHT(cm)																														
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV/L								
		BAJA	BARA	KANG	UDHA	Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHIGODH	UDAI	Mean	Mean	
115	DMRH1308	130.0	111.7	119.0	90.0	112.7	68.3	98.3	126.3	101.7	98.6	80.7	68.5	88.5	90.0	93.3	84.2	109.5	114.4	111.3	85.0	73.3	117.3	80.9	98.8	86.3	105.3	71.7	88.3	96.7	89.7	96.3
116	LMH 214	123.3	121.0	145.0	84.7	118.5	64.0	110.0	123.8	112.0	102.4	103.8	72.6	90.5	82.6	91.7	88.2	108.0	117.3	110.7	96.7	55.0	108.7	80.7	96.7	95.3	120.3	75.0	88.3	101.7	96.1	99.3
117	Proline 786	120.0	117.0	120.7	96.7	113.6	72.7	96.7	112.5	110.7	98.1	76.3	71.7	83.2	82.5	93.3	81.4	93.0	115.0	98.0	73.3	70.0	116.7	74.6	91.5	89.9	93.7	80.0	96.7	78.3	87.7	93.3
118	BL 897	120.0	110.0	132.7	88.4	112.8	66.7	130.0	117.5	92.7	101.7	84.1	58.9	89.2	91.4	95.0	83.7	96.5	96.6	107.0	100.0	70.0	126.3	79.7	96.6	93.3	127.0	70.0	80.0	80.0	90.1	96.1
119	REH2013-4	98.3	99.0	115.0	79.9	98.1	63.7	95.0	117.5	85.7	90.5	-	56.2	75.5	85.8	93.3	77.7	95.5	100.2	90.0	63.3	68.3	109.7	66.7	84.8	95.6	108.7	80.0	71.7	81.7	87.5	87.3
120	DMRH- 12-110	145.0	126.0	150.3	86.8	127.0	62.0	108.3	122.5	121.3	103.5	62.3	77.2	89.5	93.5	98.3	84.2	111.0	111.8	123.7	96.7	83.3	-	86.3	102.1	93.6	110.3	80.0	76.0	105.0	93.0	100.9
121	QMH-1015	133.3	108.7	123.0	100.3	116.3	68.3	116.7	130.0	111.7	106.7	124.0	67.9	80.5	91.1	85.0	89.7	106.5	120.1	124.3	93.3	78.3	116.0	70.6	101.3	100.5	105.0	78.3	86.7	86.7	91.4	100.3
122	DH1429	113.3	107.7	116.0	80.5	104.4	66.0	65.0	108.8	95.3	83.8	73.6	55.3	79.0	79.7	90.0	75.5	89.5	91.9	93.0	75.0	51.7	111.7	69.9	83.2	71.3	127.3	80.0	78.3	60.0	83.4	85.2
123	EH-2381	118.3	120.0	144.0	95.4	119.4	65.7	141.7	122.5	123.7	113.4	86.9	78.8	95.2	78.8	98.3	87.6	120.5	121.9	117.3	100.0	70.0	133.3	84.7	106.8	100.5	109.0	76.7	103.3	111.7	100.2	104.7
124	AH-1322	108.3	103.7	109.0	86.8	101.9	71.7	96.7	117.5	86.7	93.1	83.3	73.3	83.7	77.0	93.3	82.1	99.0	102.7	96.7	85.0	58.3	111.0	63.3	88.0	75.7	104.3	83.3	81.7	98.3	88.7	90.0
125	BH 412062	136.7	105.0	116.3	93.7	112.9	71.0	113.3	110.0	97.0	97.8	76.3	71.7	71.0	85.9	88.3	78.6	90.5	100.1	102.0	86.7	86.7	108.0	62.2	90.9	81.3	122.0	80.0	70.0	65.0	83.7	91.6
126	RMH 796	111.7	115.0	123.3	84.3	108.6	78.3	106.7	111.3	105.3	100.4	91.9	62.5	73.2	79.1	93.3	80.0	94.5	103.7	97.7	75.0	70.0	107.0	73.1	88.7	83.7	113.7	76.7	73.3	98.3	89.1	92.1
CHECKS																																
127	PMH4	103.3	94.3	110.3	81.0	97.2	64.3	101.7	115.0	106.3	96.8	72.4	57.7	84.7	76.7	93.3	77.0	103.5	97.2	95.0	71.7	65.0	107.3	79.0	88.4	75.5	112.0	75.0	83.3	63.3	81.8	87.6
128	HM9	115.0	92.7	109.0	89.6	101.6	54.7	100.0	113.8	95.3	90.9	82.1	61.5	71.8	79.0	91.7	77.2	84.5	94.2	86.0	61.7	60.0	103.0	76.7	80.9	78.9	101.7	78.3	70.0	91.7	84.1	85.7
129	HM10	115.0	107.7	122.0	101.0	111.4	67.0	116.7	118.8	106.7	102.3	81.4	70.8	92.5	82.7	86.7	82.8	99.0	108.1	108.7	90.0	73.3	112.3	83.9	96.5	90.4	112.3	71.7	85.0	91.7	90.2	95.8
130	BIO-9637	131.7	123.0	122.3	99.2	119.1	77.0	131.7	120.0	116.7	111.3	91.1	82.9	84.2	79.6	103.3	88.2	106.0	120.8	107.0	86.7	80.0	121.0	70.0	98.8	92.3	88.7	73.3	103.3	78.3	87.2	99.6
	Loc. Mean	119.5	111.8	123.6	90.9	111.4	68.7	106.4	118.4	105.9	99.9	85.1	71.4	82.8	80.7	90.8	82.1	99.4	103.7	106.2	83.3	68.8	112.6	75.6	92.8	86.8	111.6	77.5	82.8	87.3	89.2	94.1
	C.D. (5%)	17.23	19.35	5.11	20.00	14.17	9.39	6.96	17.22	9.12	14.02	21.51	4.47	13.00	9.49	10.12	10.25	9.87	8.73	10.94	10.82	19.89	13.54	18.43	8.05	12.51	30.65	16.74	24.27	6.40	12.71	5.00
	C.V. (%)	8.97	10.77	2.57	13.68	9.14	8.49	4.07	10.46	5.35	10.09	16.10	3.89	9.76	7.31	6.93	10.05	6.18	5.24	6.40	8.08	17.99	7.54	15.16	8.26	8.96	17.08	13.44	18.23	4.57	11.47	9.58
	F (Prob)	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.65	0.89	0.20	0.00	0.00	0.00

BR140

TABLE No. 3: PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT BAJAURA, KANGRA, UDHAMPUR, KANPUR, KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, BHUBANESHWAR, DHOLI, RANCHI, VARANASI, ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, VAGARAI, AMBIKAPUR, BANSWARA, CHHINDWARA, GODHRA, UDAIPUR IN IVT TRIAL No. 63 (IVT-E) DURING KHARIF (2014)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																															
		Zn 1								Zn 2								Zn 3															
		BAJA	R	BARA	R	KANG	R	UDHA	R	MEAN	R	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R
1	CMH12-675	5876	29	2298	41	6887	7	6473	47	6412	26	6445	17	8045	33	6925	12	11175	8	8148	11	9549	2	4362	24	6788	16	5134	17	6802	10	6527	3
2	HKH345	5164	37	3974	9	4553	41	7475	22	5730	40	5765	37	6461	47	5710	28	9458	24	6849	41	6944	10	4456	22	6517	30	4748	25	4905	33	5514	18
3	GYH-0461	4346	45	2326	40	4326	44	6996	39	5223	46	6274	24	7594	40	4203	43	8318	41	6597	45	6249	18	3103	43	6750	17	3871	43	5509	22	5096	31
4	CMH10-552	6332	19	2956	24	5611	23	7478	21	6474	24	6211	28	9658	10	7124	8	13247	1	9060	2	7832	4	5075	11	6295	38	5319	14	7001	7	6304	6
5	AH-1320	6763	17	2566	33	6208	17	7098	37	6690	19	6565	14	8035	34	6578	17	9030	29	7552	27	5735	26	6403	1	7290	6	4441	35	5112	30	5796	12
6	AH-1319	3205	47	3842	10	4551	42	7776	11	5177	47	6339	21	6796	45	4617	37	8440	36	6548	47	5899	23	4877	14	5402	47			5182	28	5340	24
7	AH 7002	5941	28	2422	37	4989	35	7626	15	6185	30	6177	29	6957	44	6234	21	9742	21	7277	32	6629	12	3023	46	6645	25	5435	10	6434	13	5633	14
8	DAS-MH-502	8353	2	4719	5	7344	4	7447	23	7715	4	6348	20	8223	29	9328	2	7952	42	7963	15	10672	1	5988	3	6484	31	6285	1	5644	21	7014	1
9	LMH 614	7721	7	2619	30	6420	12	7253	30	7132	11	5359	45	8101	30	5927	24	11715	5	7775	22	7238	8	4226	29	7366	5	4519	32	6162	16	5902	9
10	FH 3703	6769	16	2546	34	6388	14	7959	2	7039	14	6154	30	8081	31	6427	19	10842	12	7876	17	6332	17	4286	27	6561	29	4037	42	5269	26	5297	26
11	BH 412055	5048	39	3057	21	3964	47	6834	42	5282	45	5771	36	9646	11	4038	47	9330	25	7196	34	5972	21	4686	17	6333	35	4930	21	6828	9	5750	13
12	KF-95	7539	10	3529	14	6359	15	7554	17	7150	10	5751	38	9883	6	8490	3	10388	16	8628	5	8568	3	6210	2	7447	4	4364	39	7418	5	6801	2
13	KMH12-18	5693	31	3721	13	5960	20	8311	1	6654	20	6375	19	11104	2	6657	15	10973	10	8777	4	5457	29	3667	35	6681	21			7606	4	5853	11
14	EH-2244	4906	40	3078	20	4549	43	6734	45	5396	43	5826	34	8697	25	7439	6	10597	15	8140	12	6778	11	3031	45	6675	22	4977	18	6678	11	5628	15
15	K-26	7792	6	2426	36	6498	10	7206	32	7165	9	6414	18	10596	3	6805	13	10663	14	8620	6	5840	24	4095	31	7540	3	4664	28	5288	25	5485	19
16	PM 14109E	8241	3	2959	23	6485	11	7202	33	7309	6	5812	35	9702	9	9834	1	11103	9	9113	1	7269	6	3477	39	6717	19	4631	30	7297	6	5878	10
17	FH 3704	8103	4	4254	7	5140	31	7290	29	6844	18	6269	25	9412	13	5727	27	9326	26	7684	24	6591	13	5494	6	6084	41	4660	29	3439	43	5254	27
18	AH 9001	5540	35	2473	35	4889	38	6744	44	5724	41	5643	41	7790	37	6087	22	8438	37	6990	37	7067	9	3831	32	6570	28	4927	22	2688	47	5017	35
19	CMH10-527	7640	8	3184	17	5034	32	7227	31	6634	21	6684	10	6586	46	8481	4	11437	6	8297	10	5930	22	5094	10	6374	34	6096	2	8469	2	6393	5
20	DH 283	4017	46	3089	19	4963	36	6939	41	5306	44	7184	1	8073	32	4073	46	7107	46	6609	44	4030	40	3296	41	7051	8			4932	32	4827	44
21	PM 14110E	6222	22	2580	32	7257	5	7704	12	7061	13	5538	42	7334	42	5823	25	9487	23	7046	35	7354	5	3023	47	6134	40	5425	11	5063	31	5400	22
22	CMH12-697	6031	26	4864	4	4726	39	7526	18	6094	33	5703	40	8453	27	6788	14	12442	3	8346	8	7239	7	5445	7	5607	44	5173	16	9161	1	6525	4
23	DMRE1403	4736	42	2724	28	5300	26	7571	16	5869	38	5220	47	8435	28	4176	44	8420	38	6563	46	6155	19	3483	38	6818	14	4723	27	3882	39	5012	36
24	KMH12-8	5157	38	3112	18	12740	2	6729	46	8209	3	5877	33	7419	41	4522	39	9035	28	6713	43	5477	28	3179	42	6883	11	4469	34	3870	40	4776	45
25	CMH12-691	6986	14	3277	16	6904	6	7782	10	7224	7	6453	16	7740	39	7110	9	12009	4	8328	9	4070	39	3651	36	6737	18	5263	15	6963	8	5337	25
26	KDMH 100-1	7252	11	3433	15	6398	13	7670	14	7107	12	5227	46	8702	24	6239	20	11322	7	7873	18	4009	42	5371	8	7706	2	5603	5	5157	29	5569	17
27	AH-1318	4579	44	3816	11	4938	37	7868	6	5795	39	7037	6	8494	26	4762	36	7237	45	6883	39	5054	31	4552	20	6815	15	4598	31	3316	45	4867	41
28	AH-1321	5998	27	5165	2	5946	21	6966	40	6303	27	6309	23	7750	38	4548	38	8853	32	6865	40	3969	43	4797	16	6178	39	3385	44	6215	15	4909	40
29	AH 7001	6315	20	3723	12	5981	19	7426	25	6574	23	5531	44	8871	20	4519	40	10779	13	7425	28	3592	47	5717	5	6316	37	5863	3	5448	24	5387	23
30	EH-2371	4834	41	2738	27	4586	40	7065	38	5495	42	6322	22	9133	17	6563	18	10228	19	8061	13	4234	37	4436	23	5595	45	4174	41	6273	14	4942	38

SI No PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																																
	ZN 1														ZN 2							ZN 3											
	BAJA	R	BARA	R	KANG	R	UDHA	R	MEAN	R	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R	
31 KMH12-9	5654	34	1897	46	13039	1	7783	9	8825	1	7114	2	10097	5	5559	29	8488	35	7814	20	3829	46	4804	15	6716	20	4737	26	4162	37	4850	43	
32 FH 3695	9491	1	2410	38	4126	45	7494	20	7037	15	5710	39	7265	43	6616	16	9669	22	7315	31	4264	36	3823	33	6650	23	5665	4	5457	23	5172	30	
33 DH 290	5483	36	3046	22	5433	25	7148	35	6021	35	7040	5	9065	18	4783	35	8556	34	7361	30	4632	33	3050	44	6945	10	5451	9	2972	46	4610	47	
34 HKH346	5662	33	2683	29	5528	24	7350	28	6180	31	6251	26	7830	36	5752	26	7885	43	6929	38	5058	30	3748	34	6324	36	4492	33	5684	20	5061	33	
35 SAMH-221	8016	5	2150	45	6599	8	7804	8	7473	5	7077	3	9354	15	5033	32	10254	18	7930	16	5001	32	5164	9	5823	43	4762	24	3816	41	4913	39	
36 OMH 11-1	5683	32	2270	42	5171	29	7111	36	5989	36	6731	8	9213	16	4097	45	6849	47	6722	42	5837	25	3517	37	6650	24	4404	38	3329	44	4747	46	
37 LMH 514	7540	9	2950	25	5153	30	7892	5	6862	16	5955	32	8704	23	7014	10	8988	30	7665	25	4204	38	4596	18	6644	26	4973	19	4856	34	5054	34	
38 DH 286	6049	25	2582	31	11166	3	7898	4	8371	2	6655	12	8836	21	5016	33	8384	39	7223	33	3895	45	5954	4	6385	33	4416	37	4165	36	4963	37	
39 GYH-0656	6065	24	2371	39	5766	22	7523	19	6451	25	5531	43	9872	7	4334	41	9958	20	7424	29	3914	44	5039	12	7256	7	5549	7	4156	38	5183	29	
40 AH 5021	6462	18	2166	44	5006	33	7186	34	6218	28	6578	13	9064	19	7845	5	10387	17	8468	7	4014	41	4576	19	6609	27	5371	13	6490	12	5412	21	
41 BH 412071	7211	12	2766	26	4108	46	6800	43	6040	34	6036	31	9794	8	6983	11	8663	33	7869	19	4409	35	4527	21	6862	12	4421	36	5886	19	5221	28	
42 JKMH 4025	6291	21	4002	8	5002	34	7355	27	6216	29	7060	4	7996	35	4289	42	10867	11	7553	26	6577	14	4341	25	6029	42	4215	40	8378	3	5908	8	
43 BH 412093	6894	15	5016	3	6220	16	7431	24	6848	17	6458	15	9402	14	7367	7	12453	2	8920	3	5692	27	3375	40	5578	46	5528	8	5213	27	5077	32	
44 GWH-0503	5820	30	4300	6	5225	28	7366	26	6137	32	6660	11	10137	4	5511	30	8919	31	7807	21	4431	34	4312	26	6988	9	4770	23	3815	42	4863	42	
45 GWH-0330	7051	13	1881	47	6520	9	7940	3	7170	8	6863	7	8825	22	4831	34	7615	44	7034	36	6339	16	4286	28	6422	32	4935	20	6104	18	5617	16	
46 HKH347	4606	43	5184	1	5265	27	7854	7	5909	37	6711	9	11480	1	5498	31	8320	40	8002	14	6102	20	4217	30	6848	13	5400	12	4722	35	5458	20	
CHECKS																																	
47 Prakash	6075	23	2261	43	6104	18	7684	13	6621	22	6218	27	9539	12	6043	23	9205	27	7751	23	6515	15	4902	13	7818	1	5555	6	6144	17	6187	7	
Location Mean	6237		3136		5986		7395		6539		6239		8686		6007		9671		7651		5797		4395		6615		4917		5518		5453		
C.D. (5%)	853		2009		678		706		746		662		336		1511		2285		1198		1488		631		1338		1007		1069		1107		
C.V. (%)	8.43		31.81		6.98		5.89		-		6.54		2.39		15.51		14.57		-		15.82		8.86		12.47		13.48		11.95		-		
F (Prob)	0		0.049		0		0				0		0		0		0				0		0		0.158		0		0				
Plot Size	3.6		3		2.4		4.8		-		4.8		6		5.46		6		-		4.8		4.8		6		5.6		4.8		-		
AGRONOMY DATA																																	
Sowing Date	23-06		26-07		22-06		9-07		-		27-07		28-06		27-06		24-06		-		3-07		17-07		10-07		11-07		28-06		-		
Harvest Date	27-10		23-11		30-09		17-10		-		8-11		27-09		22-10		18-10		-		30-09		30-10		23-10		28-10		2-10		-		
Irrigation Nos	3		-		-		-		-		2		4		5		1		-		-		-		2		-		2		-		
Fertilizer Applied N	120		80		120		120		-		120		150		125		120		-		120		120		120		120		100		-		
Fertilizer Applied P	60		60		60		60		-		60		60		60		60		-		60		60		60		60		60		-		
Fertilizer Applied K	40		40		40		40		-		50		60		30		40		-		40		60		40		40		40		-		

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : BARA 31.8 %

TABLE No. 3: (Cont...)

SI No PEDIGREE	ZN 4																								ZN 5				OVL	
	ARBH	R	COIM	R	HYDE	R	KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R	AMBI	R	BANS	R	CHHI	R	GODH	R	UDAI	R	MEAN	R	MEAN	R
1 CMH12-675	11513	4	9065	16	3421	40	6926	26	5266	20	5872	37	6863	2	6989	10	4888	5	4099	26	4991	2	4237	10	3519	25	4347	9	6463	7
2 HKH345	7423	36	9384	11	4089	26	6932	25	4449	39	6325	27	3408	39	6001	33	4056	18	4444	13	4029	20	2024	47	2369	37	3384	40	5462	39
3 GYH-0461	8233	28	8075	31	2795	45	4857	46	5104	23	5289	43	5421	14	5682	40	3500	30	4124	24	3335	40	3195	31	3870	24	3605	30	5222	45
4 CMH10-552	11770	2	12050	1	4755	11	8437	5	5974	14	6184	33	7668	1	8120	2	4390	9	2356	47	4919	4	3836	18	5251	13	4150	13	6866	2
5 AH-1320	9467	17	9709	6	5145	7	6245	36	4415	41	7105	16	5106	21	6742	14	3778	23	3711	42	5262	1	3914	17	5397	10	4412	8	6188	14
6 AH-1319	7585	34	8745	19	4066	27	5755	40	5012	28	5216	44	5701	8	6011	32	1278	47	4587	7	3769	31	3451	25	5725	5	3762	23	5390	40
7 AH 7002	7648	33	8489	25	4742	12	6786	28	4359	43	7896	3	6330	4	6607	20	2833	44	4594	6	3065	46	2445	44	2155	39	3018	46	5716	28
8 DAS-MH-502	11693	3	9344	14	5186	5	9431	2	6240	8	7956	1	4730	24	7797	3	5167	2	4959	2	3617	36	5016	3	6425	1	5037	1	7076	1
9 LMH 614	8774	24	8208	29	5086	8	7246	15	3988	45	5555	40	2612	45	5924	34	3611	26	4547	9	4062	18	3713	21	3373	28	3861	20	5949	22
10 FH 3703	9965	12	9161	15	4311	22	7378	13	4566	37	7696	7	4049	32	6732	15	4223	13	3641	44	4987	3	4414	8	4337	18	4320	10	6160	15
11 BH 412055	9552	15	8410	26	4356	20	6670	29	3418	47	5562	39	2884	42	5836	36	2944	43	3874	33	3436	38	2054	45	5349	11	3532	34	5495	38
12 KF-95	6965	39	6486	44	3218	42	8194	7	7149	3	6291	29	5283	17	6226	26	4834	6	3748	41	4721	7	3420	26	2050	42	3755	24	6347	9
13 KMH12-18	7707	32	8691	22	3932	29	6535	31	6216	10	6800	19	5151	20	6433	23	3723	24	3709	43	2653	47	2514	42	3506	26	3221	44	6070	17
14 EH-2244	9316	19	8708	21	4444	18	7114	18	4660	35	6567	21	5434	13	6606	21	2389	46	4173	22	3976	22	4788	4	4440	16	3953	18	5954	21
15 K-26	10402	10	10102	5	5270	4	7146	17	4911	30	6309	28	5497	11	7091	9	4334	10	4451	12	4035	19	4231	11	6202	2	4651	3	6512	6
16 PM 14109E	9231	21	8572	23	3710	32	8208	6	5035	26	6555	23	5293	16	6658	18	5001	4	4292	16	3686	32	4258	9	1282	45	3704	27	6370	8
17 FH 3704	10059	11	7959	37	5154	6	6826	27	5005	29	6343	26	3751	36	6442	22	5500	1	4265	18	3622	35	4546	6	3454	27	4277	11	6001	20
18 AH 9001	11052	6	9469	9	3786	31	6400	33	6242	7	6645	20	4928	23	6932	11	4277	12	5732	1	4011	21	2915	33	2152	41	3817	21	5743	27
19 CMH10-527	9893	13	11577	2	4633	13	8644	4	5402	18	7696	8	6353	3	7742	4	4278	11	3985	30	4129	16	3933	16	4551	15	4175	12	6672	4
20 DH 283	6477	41	6353	45	1921	47	3854	47	4739	33	4668	47	5164	19	4739	47	2556	45	3797	39	3244	42	2741	36	1212	46	2710	47	4713	47
21 PM 14110E	10891	8	8879	18	5293	2	7926	9	7075	4	7008	18	5420	15	7499	5	4168	15	4610	4	4126	17	5320	2	4277	19	4500	7	6306	10
22 CMH12-697	9417	18	9374	12	4124	24	7787	11	6797	5	7838	4	5564	10	7272	6	5166	3	4360	14	3466	37	4513	7	5653	6	4632	4	6598	5
23 DMRE1403	5426	45	7211	40	2069	46	5025	45	4732	34	6000	34	3999	33	4923	46	3000	42	4566	8	3939	24	4154	12	1034	47	3339	41	5003	46
24 KMH12-8	7868	30	5930	46	3423	39	6066	38	5939	15	6559	22	4547	25	5762	39	3502	29	2764	46	4813	5	2573	41	4219	20	3574	33	5565	36
25 CMH12-691	14351	1	9566	8	6683	1	9435	1	6095	13	7564	12	5687	9	8483	1	4221	14	4534	10	4424	9	4122	13	5553	8	4571	5	6829	3
26 KDMH 100-1	10684	9	7369	38	3600	36	6966	22	4860	31	7689	9	5223	18	6627	19	4444	8	4139	23	4183	14	2686	39	3077	31	3706	26	6066	18
27 AH-1318	5465	44	7083	41	4883	9	6594	30	5045	25	5209	46	4974	22	5608	41	3001	41	4109	25	4220	12	3089	32	2508	35	3385	38	5226	44
28 AH-1321	8637	26	8979	17	4332	21	6451	32	4384	42	6284	30	4436	26	6215	28	4001	19	3973	31	4152	15	2697	38	5262	12	4017	16	5604	34
29 AH 7001	8657	25	8200	30	3055	44	5635	41	6225	9	5947	36	5919	7	6234	25	3390	34	3942	32	3880	28	3311	28	2401	36	3385	39	5705	29
30 EH-2371	7571	35	10277	4	4512	16	7020	20	4572	36	6212	32	2326	46	6070	29	3390	35	3798	38	3843	29	3342	27	5827	4	4040	15	5672	31

SI No PEDIGREE	ZN 4														ZN 5				OVL												
	ARBH	R	COIM	R	HYDE	R	KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R	AMBI	R	BANS	R	CHHI	R	GODH	R	UDAI	R	MEAN	R	MEAN	R	
31 KMH12-9	7099	38	7962	36	4191	23	5800	39	5808	16	5964	35	4090	31	5845	35	3444	33	3794	40	3962	23	2511	43	2653	34	3273	43	5803	26	
32 FH 3695	9557	14	8350	27	4540	14	8713	3	6403	6	7636	11	2619	44	6831	13	3557	27	3839	36	3292	41	5949	1	5869	3	4501	6	6107	16	
33 DH 290	6292	42	5434	47	3991	28	5451	43	6159	11	7824	5	3947	34	5585	42	3057	39	3847	35	3661	33	3664	22	1797	44	3205	45	5237	43	
34 HKH346	9164	22	9602	7	4110	25	7239	16	4853	32	6250	31	2284	47	6215	27	3056	40	4010	29	4462	8	3593	23	4379	17	3900	19	5607	33	
35 SAMH-221	9544	16	8006	35	3462	37	7814	10	7392	2	7441	13	3349	40	6716	16	4166	17	4195	20	4783	6	4651	5	5524	9	4664	2	6210	11	
36 OMH 11-1	7913	29	8013	34	4524	15	5471	42	5274	19	5215	45	4117	29	5790	38	3334	36	4952	3	3431	39	4080	14	2153	40	3590	32	5295	42	
37 LMH 514	8812	23	7360	39	5291	3	7091	19	3773	46	7757	6	3746	37	6262	24	4446	7	4609	5	3179	44	2744	35	5567	7	4109	14	5871	25	
38 DH 286	7422	37	6501	43	3352	41	5260	44	5024	27	5522	41	2865	43	5135	45	3612	25	3848	34	4239	11	2638	40	4028	21	3673	29	5547	37	
39 GYH-0656	6807	40	8041	32	3639	34	6075	37	5255	21	6498	24	4326	27	5806	37	3445	32	4324	15	4209	13	3827	19	3986	22	3958	17	5642	32	
40 AH 5021	8619	27	11329	3	4484	17	8099	8	4465	38	7686	10	5482	12	7166	8	3446	31	4462	11	3934	25	4077	15	3141	30	3812	22	6201	13	
41 BH 412071	7748	31	8712	20	4829	10	7009	21	7599	1	7016	17	3916	35	6690	17	3112	38	3291	45	3912	26	3254	29	5010	14	3716	25	5879	24	
42 JKMH 4025	11447	5	9437	10	3886	30	7262	14	5100	24	7200	14	4105	30	6920	12	4000	20	3813	37	3629	34	3780	20	3242	29	3693	28	6054	19	
43 BH 412093	10902	7	9346	13	4407	19	6955	24	4433	40	7940	2	6294	5	7183	7	3835	21	4085	27	3773	30	2718	37	2675	33	3417	37	6207	12	
44 GWH-0503	5359	46	6975	42	3689	33	6326	34	5591	17	7131	15	3323	41	5485	43	3334	37	4071	28	3906	27	3236	30	2011	43	3312	42	5371	41	
45 GWH-0330	5953	43	8217	28	3627	35	6265	35	5159	22	5715	38	3411	38	5478	44	3556	28	4292	17	4327	10	3457	24	2335	38	3593	31	5585	35	
46 HKH347	9232	20	8029	33	3170	43	6961	23	4268	44	6350	25	4316	28	6047	30	3779	22	4258	19	3225	43	2041	46	3886	23	3438	35	5689	30	
CHECKS																															
47 Prakash	4967	47	8525	24	3437	38	7767	12	6156	12	5412	42	5978	6	6035	31	4167	16	4184	21	3103	45	2824	34	2888	32	3433	36	5884	23	
Location Mean	8735		8538		4141		6895		5332		6583		4636		6408		3770		4122		3949		3543		3778		3833		5896		
C.D. (5%)	2854		662		1023		698		1451		638		1095		1203		517		959		1769		563		453		852		1052		
C.V. (%)	20.14		4.78		15.23		6.24		16.78		5.97		14.57		-		8.45		14.34		27.62		9.8		7.39		-		-		
F (Prob)	0		0		0		0		0		0		0				0		0		0.784		0		0		-		-		
Plot Size	4.8		4.8		6		6		6		5.6		4.8		-		6		4.8		6		4.8		4.8		-		-		
AGRONOMY DATA																															
Sowing Date	22-07		15-07		9-07		8-07		19-07		8-07		24-07		-		1-07		13-07		4-07		17-07		4-07		-		-		
Harvest Date	25-11		20-10		28-10		25-10		26-11		22-12		17-11		-		-		16-10		22-11		6-11		14-10		-		-		
Irrigation Nos	8		8		3		-		-		7		8		-		-		-		-		-		1		-		-		
Fertilizer Applied N	150		150		200		200		120		150		150		-		120		150		120		100		120		-		-		
Fertilizer Applied P	75		75		60		60		60		75		75		-		60		80		60		50		90		-		-		
Fertilizer Applied K	37.5		75		50		50		40		40		75		-		40		-		40		-		-		-		-		

TABLE No. 3 (Cont..)

SI No	GRAIN YIELD % SUPERIORITY OVER THE Prakash																														
	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV'L								
PEDIGREE	BAJA	BARA	KANG	UDHA	MEAN	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	UDAI	MEAN	MEAN
1 CMH12-675	-	1.6	12.8	-	-	3.7	-	14.6	21.4	5.1	46.6	-	-	-	10.7	5.5	132	6.3	-	-	-	8.5	14.8	15.8	17.3	-	60.8	50.1	21.8	26.6	9.8
2 HKH345	-	75.8	-	-	-	-	-	-	2.7	-	6.6	-	-	-	-	-	49.5	10.1	19	-	-	16.9	-	-	-	6.2	29.8	-	-	-	-
3 GYH-0461	-	2.9	-	-	-	0.9	-	-	-	-	-	-	-	-	-	-	65.8	-	-	-	-	-	-	-	-	-	7.5	13.1	34	5	-
4 CMH10-552	4.2	30.8	-	-	-	-	1.2	17.9	43.9	16.9	20.2	3.5	-	-	14	1.9	137	41.3	38.3	8.6	-	14.3	28.3	34.6	5.4	-	58.5	35.9	81.8	20.9	16.7
5 AH-1320	11.3	13.5	1.7	-	1	5.6	-	8.9	-	-	-	-	-	-	-	-	90.6	13.9	49.7	-	-	31.3	-	11.7	-	-	69.5	38.6	86.9	28.5	5.2
6 AH-1319	-	70	-	1.2	-	1.9	-	-	-	-	-	-	-	-	-	-	52.7	2.6	18.3	-	-	-	-	-	-	9.6	21.4	22.2	98.2	9.6	-
7 AH 7002	-	7.1	-	-	-	-	-	3.2	5.8	-	1.7	-	-	-	4.7	-	54	-	38	-	-	45.9	5.9	9.5	-	9.8	-	-	-	-	-
8 DAS-MH-502	37.5	109	20.3	-	16.5	2.1	-	54.4	-	2.7	63.8	22.2	-	13.1	-	13.4	135	9.6	50.9	21.4	1.4	47	-	29.2	24	18.5	16.5	77.6	122	46.7	20.3
9 LMH 614	27.1	15.9	5.2	-	7.7	-	-	-	27.3	0.3	11.1	-	-	-	0.3	-	76.7	-	48	-	-	2.6	-	-	-	8.7	30.9	31.5	16.8	12.5	1.1
10 FH 3703	11.4	12.6	4.7	3.6	6.3	-	-	6.4	17.8	1.6	-	-	-	-	-	101	7.5	25.4	-	-	42.2	-	11.6	1.3	-	60.7	56.3	50.2	25.8	4.7	
11 BH 412055	-	35.2	-	-	-	-	1.1	-	1.4	-	-	-	-	-	11.1	-	92.3	-	26.7	-	-	2.8	-	-	-	-	10.7	-	85.2	2.9	-
12 KF-95	24.1	56.1	4.2	-	8	-	3.6	40.5	12.9	11.3	31.5	26.7	-	-	20.7	9.9	40.2	-	-	5.5	16.1	16.2	-	3.2	16	-	52.1	21.1	-	9.4	7.9
13 KMH12-18	-	64.6	-	8.2	0.5	2.5	16.4	10.2	19.2	13.2	-	-	-	-	23.8	-	55.2	1.9	14.4	-	1	25.6	-	6.6	-	-	-	-	21.4	-	3.2
14 EH-2244	-	36.2	-	-	-	-	23.1	15.1	5	4	-	-	-	-	8.7	-	87.6	2.1	29.3	-	-	21.3	-	9.5	-	-	28.1	69.6	53.7	15.1	1.2
15 K-26	28.3	7.3	6.5	-	8.2	3.1	11.1	12.6	15.8	11.2	-	-	-	-	-	109	18.5	53.3	-	-	16.6	-	17.5	4	6.4	30	49.9	115	35.5	10.7	
16 PM 14109E	35.6	30.9	6.2	-	10.4	-	1.7	62.7	20.6	17.6	11.6	-	-	-	18.8	-	85.9	0.5	7.9	5.7	-	21.1	-	10.3	20	2.6	18.8	50.8	-	7.9	8.3
17 FH 3704	33.4	88.2	-	-	3.4	0.8	-	-	1.3	-	1.2	12.1	-	-	-	103	-	50	-	-	17.2	-	6.8	32	2	16.7	61	19.6	24.6	2	
18 AH 9001	-	9.4	-	-	-	-	-	0.7	-	-	8.5	-	-	-	-	123	11.1	10.2	-	1.4	22.8	-	14.9	2.6	37	29.2	3.2	-	11.2	-	
19 CMH10-527	25.8	40.8	-	-	0.2	7.5	-	40.3	24.3	7	-	3.9	-	9.7	37.8	3.3	99.2	35.8	34.8	11.3	-	42.2	6.3	28.3	2.7	-	33	39.3	57.6	21.6	13.4
20 DH 283	-	36.6	-	-	-	15.5	-	-	-	-	-	-	-	-	-	30.4	-	-	-	-	-	-	-	-	-	-	4.5	-	-	-	-
21 PM 14110E	2.4	14.1	18.9	0.3	6.6	-	-	-	3.1	-	12.9	-	-	-	-	119	4.2	54	2	14.9	29.5	-	24.3	0	10.2	32.9	88.4	48.1	31.1	7.2	
22 CMH12-697	-	115	-	-	-	-	-	12.3	35.2	7.7	11.1	11.1	-	-	49.1	5.5	89.6	10	20	0.2	10.4	44.8	-	20.5	24	4.2	11.7	59.8	95.7	34.9	12.1
23 DMRE1403	-	20.5	-	-	-	-	-	-	-	-	-	-	-	-	-	9.3	-	-	-	-	-	10.9	-	-	-	9.1	26.9	47.1	-	-	-
24 KMH12-8	-	37.7	109	-	24	-	-	-	-	-	-	-	-	-	-	58.4	-	-	-	-	-	21.2	-	-	-	-	55.1	-	46.1	4.1	-
25 CMH12-691	15	44.9	13.1	1.3	9.1	3.8	-	17.7	30.5	7.4	-	-	-	-	13.3	-	189	12.2	94.4	21.5	-	39.7	-	40.6	1.3	8.4	42.6	46	92.3	33.1	16.1
26 KDMH 100-1	19.4	51.9	4.8	-	7.3	-	-	3.2	23	1.6	-	9.6	-	0.9	-	115	-	4.7	-	-	42.1	-	9.8	6.6	-	34.8	-	6.5	7.9	3.1	
27 AH-1318	-	68.8	-	2.4	-	13.2	-	-	-	-	-	-	-	-	-	10	-	42.1	-	-	-	-	-	-	-	-	36	9.4	-	-	-
28 AH-1321	-	129	-	-	-	1.5	-	-	-	-	-	-	-	-	1.2	-	73.9	5.3	26	-	-	16.1	-	3	-	-	33.8	-	82.2	17	-
29 AH 7001	4	64.7	-	-	-	-	-	-	17.1	-	-	16.6	-	5.5	-	74.3	-	-	-	-	1.1	9.9	-	3.3	-	-	25	17.3	-	-	-
30 EH-2371	-	21.1	-	-	-	1.7	-	8.6	11.1	4	-	-	-	-	2.1	-	52.4	20.6	31.3	-	-	14.8	-	0.6	-	-	23.8	18.4	102	17.7	-

TABLE No. 3 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Prakash																															
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5					OV'L						
		BAJA	BARA	KANG	UDHA	MEAN	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	CHHI	GODH	UDAI	MEAN	MEAN	
31	KMH12-9	-	-	114	1.3	33.3	14.4	5.8	-	0.8	-	-	-	-	-	42.9	-	21.9	-	-	10.2	-	-	-	-	27.7	-	-	-	-	-	-	-
32	FH 3695	56.2	6.6	-	-	6.3	-	-	9.5	5	-	-	-	-	2	-	-	92.4	-	32.1	12.2	4	41.1	-	13.2	-	-	6.1	111	103	31.1	3.8	
33	DH 290	-	34.8	-	-	-	13.2	-	-	-	-	-	-	-	-	-	26.7	-	16.1	-	0	44.6	-	-	-	-	18	29.8	-	-	-	-	
34	HKH346	-	18.7	-	-	-	0.5	-	-	-	-	-	-	-	-	-	84.5	12.6	19.6	-	-	15.5	-	3	-	-	43.8	27.2	51.6	13.6	-	-	
35	SAMH-221	32	-	8.1	1.6	12.9	13.8	-	-	11.4	2.3	-	5.4	-	-	-	92.2	-	0.7	0.6	20.1	37.5	-	11.3	-	0.3	54.1	64.7	91.2	35.8	5.5		
36	OMH 11-1	-	0.4	-	-	-	8.2	-	-	-	-	-	-	-	-	-	59.3	-	31.6	-	-	-	-	-	-	-	18.4	10.5	44.5	-	4.6	-	
37	LMH 514	24.1	30.5	-	2.7	3.6	-	-	16.1	-	-	-	-	-	-	-	77.4	-	53.9	-	-	43.3	-	3.8	6.7	10.2	2.4	-	92.7	19.7	-	-	
38	DH 286	-	14.2	82.9	2.8	26.4	7	-	-	-	-	-	21.5	-	-	-	49.4	-	-	-	-	2	-	-	-	-	36.6	-	39.5	7	-	-	
39	GYH-0656	-	4.9	-	-	-	-	-	3.5	-	8.2	-	-	2.8	-	-	37.1	-	5.9	-	-	20.1	-	-	-	-	3.4	35.6	35.6	38	15.3	-	
40	AH 5021	6.4	-	-	-	-	5.8	-	29.8	12.8	9.3	-	-	-	5.6	-	73.5	32.9	30.5	4.3	-	42	-	18.7	-	6.6	26.8	44.4	8.8	11	5.4	-	
41	BH 412071	18.7	22.4	-	-	-	-	2.7	15.6	-	1.5	-	-	-	-	-	56	2.2	40.5	-	23.4	29.6	-	10.9	-	-	26	15.2	73.5	8.2	-	-	
42	JKMH 4025	3.6	77	-	-	-	13.5	-	-	18.1	-	0.9	-	-	-	36.4	-	131	10.7	13.1	-	-	33	-	14.7	-	-	16.9	33.9	12.2	7.6	2.9	-
43	BH 412093	13.5	122	1.9	-	3.4	3.9	-	21.9	35.3	15.1	-	-	-	-	-	120	9.6	28.2	-	-	46.7	5.3	19	-	-	21.6	-	-	-	5.5	-	
44	GWH-0503	-	90.2	-	-	-	7.1	6.3	-	-	0.7	-	-	-	-	-	7.9	-	7.3	-	-	31.8	-	-	-	-	25.9	14.6	-	-	-	-	
45	GWH-0330	16.1	-	6.8	3.3	8.3	10.4	-	-	-	-	-	-	-	-	-	19.9	-	5.5	-	-	5.6	-	-	-	2.6	39.4	22.4	-	4.7	-	-	
46	HKH347	-	129	-	2.2	-	7.9	20.3	-	-	3.2	-	-	-	-	-	85.9	-	-	-	-	17.3	-	0.2	-	1.8	3.9	-	34.5	0.1	-	-	
	CHECKS																																
47	Prakash	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : BARA 31.8 %

TABLE No. 3 (Cont..)

STAND AT HARVEST ('000/ha)																																
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV'L								
		BAJA	BARA	KANG	UDHA	Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND		VAGA	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean
36	OMH 11-1	48.1	78.3	86.1	71.5	71.0	73.6	58.9	73.3	61.1	66.7	73.6	62.5	56.7	59.5	62.5	63.0	75.0	66.7	71.1	51.1	50.6	58.3	50.0	60.4	56.7	58.3	46.7	65.3	52.1	55.8	62.7
37	LMH 514	62.0	61.7	93.1	73.6	72.6	75.0	57.2	73.9	62.2	67.1	62.5	66.0	60.0	58.9	61.5	61.8	77.1	65.3	71.1	66.7	52.2	64.3	54.9	64.5	54.4	61.8	41.7	70.1	56.9	57.0	64.2
38	DH 286	52.8	60.0	86.1	72.9	68.0	76.4	57.2	72.6	62.8	67.3	58.3	66.0	58.9	54.8	54.2	58.4	78.5	64.6	67.2	50.0	50.0	65.5	53.5	61.3	53.9	61.1	49.4	66.0	57.6	57.6	62.0
39	GYH-0656	57.4	70.0	90.3	72.9	72.7	74.3	58.3	72.6	63.9	67.3	65.3	59.7	65.0	62.5	56.3	61.8	78.5	65.3	66.7	53.3	49.4	60.7	45.1	59.9	55.6	61.1	52.2	75.7	60.4	61.0	63.7
40	AH 5021	46.3	66.7	98.6	72.2	70.9	73.6	58.9	73.9	61.7	67.0	72.2	65.3	57.8	60.7	55.2	62.2	70.8	66.0	69.4	50.6	49.4	62.5	53.5	60.3	52.8	61.8	57.8	66.7	57.6	59.3	63.3
41	BH 412071	51.9	80.0	84.7	73.6	72.5	77.1	58.9	72.6	63.3	68.0	58.3	68.1	62.8	59.5	56.3	61.0	77.8	66.7	71.7	52.2	52.2	64.9	55.6	63.0	44.4	56.9	50.6	66.7	56.3	55.0	63.3
42	JKMH 4025	50.9	83.3	86.1	72.2	73.1	74.3	59.4	71.4	61.7	66.7	72.2	60.4	60.6	56.0	62.5	62.3	72.9	65.3	65.0	56.1	49.4	61.9	59.7	61.5	52.8	64.6	42.8	70.8	47.2	55.6	63.2
43	BH 412093	49.1	85.0	87.5	74.3	74.0	71.5	58.3	72.6	62.2	66.2	74.3	68.8	57.2	57.7	59.4	63.5	75.0	65.3	68.9	52.2	50.0	58.9	52.1	60.3	51.1	58.3	54.4	79.9	41.0	56.9	63.4
44	GWH-0503	55.6	86.7	88.9	71.5	75.7	74.3	59.4	74.5	61.7	67.5	67.4	65.3	58.3	56.5	53.1	60.1	77.8	66.0	68.3	50.0	47.2	63.7	53.5	60.9	52.2	52.8	53.3	75.7	28.5	52.5	62.5
45	GWH-0330	56.5	70.0	86.1	72.2	71.2	73.6	60.0	73.3	63.9	67.7	77.1	68.8	57.2	59.5	61.5	64.8	71.5	66.7	61.7	45.0	50.6	59.5	53.5	58.3	55.6	60.4	56.1	65.3	53.5	58.2	63.2
46	HKH347	25.0	60.0	88.9	72.9	61.7	73.6	59.4	64.1	61.7	64.7	57.6	62.5	57.8	60.7	47.9	57.3	67.4	66.7	61.7	48.9	46.7	58.3	47.9	56.8	50.0	57.6	42.8	70.1	54.9	55.1	58.6
47	CHECKS Prakash	61.1	63.3	86.1	72.2	70.7	72.2	57.2	73.3	61.7	66.1	60.4	64.6	62.2	60.1	58.3	61.1	74.3	66.7	67.2	51.7	50.6	59.5	52.8	60.4	58.3	59.0	59.4	66.0	60.4	60.6	63.1
	Loc. Mean	51.5	74.0	88.8	73.2	71.9	74.5	58.9	68.8	61.9	66.0	66.0	63.7	59.6	56.2	56.0	60.3	73.7	65.9	66.5	52.4	50.3	61.4	52.3	60.4	54.0	58.3	48.5	72.4	52.2	57.1	62.5
	C.D. (5%)	6.45	25.41	9.02	3.74	10.69	4.99	3.07	8.25	3.92	5.35	7.76	5.20	6.55	9.25	6.56	5.64	11.56	1.63	7.52	3.07	4.52	5.24	10.71	3.82	5.38	10.49	14.91	5.62	5.76	7.45	2.83
	C.V. (%)	7.72	17.05	6.27	3.15	10.63	4.13	3.21	7.39	3.90	5.80	7.25	5.03	6.78	9.82	7.22	7.49	9.67	1.53	6.97	3.62	5.54	5.26	12.62	6.01	6.15	11.10	18.95	4.79	6.80	10.47	8.17
	F (Prob)	0.00	0.04	0.09	0.83	0.83	0.05	0.04	0.00	0.82	0.75	0.00	0.00	0.64	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.11	0.15	0.00	0.00	0.31	0.69	0.00	0.00	0.04	0.00	

Table No. 3 (Continued)

GRAIN SHELLING %																															
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV'L							
		BAJA	BARA	KANG	UDHA	Mean	KANP	KARN	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA		Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean
34	HKH346	79.6	78.8	77.8	81.1	79.3	74.5	64.5	76.0	71.7	78.9	80.6	83.0	82.6	72.4	79.5	84.8	79.6	77.2	78.6	80.1	81.1	72.3	79.1	77.8	72.3	85.3	77.9	80.1	78.7	78.2
35	SAMH-221	80.1	77.2	77.8	83.3	79.6	75.0	64.9	78.1	72.7	76.9	80.2	81.0	81.1	72.0	78.2	83.7	78.0	78.9	79.2	83.9	81.6	72.6	79.7	74.3	73.4	82.2	85.8	80.8	79.3	78.4
36	OMH 11-1	81.0	76.7	77.3	81.2	79.0	74.0	63.8	83.3	73.7	78.4	77.6	79.0	85.8	71.5	78.5	85.5	81.9	80.6	84.3	83.0	81.4	74.5	81.6	80.0	74.3	84.3	92.1	75.7	81.3	79.5
37	LMH 514	83.6	79.8	77.6	84.2	81.3	75.0	68.6	80.6	74.7	77.5	78.0	82.0	84.4	72.5	78.9	85.4	78.2	77.9	80.6	74.9	83.5	69.3	78.6	81.7	70.8	84.1	75.5	79.3	78.3	78.5
38	DH 286	82.4	78.5	78.9	84.3	81.0	73.0	67.6	85.6	75.4	78.3	80.5	82.0	85.1	76.1	80.4	87.3	82.6	77.6	83.8	85.9	81.8	73.9	81.8	76.5	70.9	90.3	82.3	80.6	80.1	80.2
39	GYH-0656	80.8	80.0	78.5	80.3	79.9	73.5	68.0	86.6	76.0	76.7	78.5	83.0	83.5	76.5	79.6	84.2	80.6	76.4	79.8	87.1	82.4	76.3	81.0	77.5	70.8	85.0	85.7	80.4	79.9	79.7
40	AH 5021	80.7	82.7	80.0	79.3	80.7	75.5	69.9	82.6	76.0	75.0	81.4	80.5	82.7	76.4	79.2	85.5	80.9	78.1	83.6	63.4	83.6	75.6	78.7	77.6	71.4	85.9	84.5	80.4	80.0	79.0
41	BH 412071	77.7	78.0	75.9	78.1	77.4	74.5	65.5	75.0	71.7	77.9	82.5	80.0	81.9	73.6	79.2	82.1	76.9	75.5	77.5	79.9	81.5	76.9	78.6	76.7	70.5	82.6	77.2	79.6	77.3	77.4
42	JKMH 4025	75.0	76.2	70.1	80.1	75.3	76.0	66.1	76.3	72.8	67.2	81.0	79.5	78.6	75.3	76.3	81.4	77.0	67.0	74.5	69.2	81.6	74.1	75.0	73.5	69.9	85.1	85.2	80.1	78.8	75.8
43	BH 412093	80.3	74.2	78.5	78.2	77.8	71.0	64.7	81.2	72.3	79.3	79.0	79.5	87.0	75.2	80.0	88.3	78.7	75.4	81.2	78.0	82.2	75.9	79.9	75.9	69.2	82.9	89.3	79.7	79.4	78.5
44	GWH-0503	82.9	76.0	76.5	80.7	79.0	72.0	68.9	81.5	74.1	78.5	78.7	83.0	83.1	72.8	79.2	84.5	83.5	78.8	83.4	83.8	83.5	72.6	81.4	77.8	68.6	82.5	69.3	79.8	75.6	78.4
45	GWH-0330	80.8	73.2	74.4	79.9	77.1	75.0	65.3	81.9	74.1	78.5	78.5	81.0	86.0	78.7	80.5	83.9	80.0	80.1	84.3	84.9	80.8	75.7	81.4	80.0	70.5	83.5	82.5	80.1	79.3	79.1
46	HKH347	78.1	77.6	77.2	82.7	78.9	74.5	67.6	76.4	72.8	79.0	79.0	83.0	83.5	72.2	79.3	84.1	78.8	76.6	77.3	69.9	81.5	76.7	77.8	76.5	70.7	85.4	78.4	80.3	78.2	77.8
CHECKS																															
47	Prakash	83.8	74.7	78.3	79.4	79.0	75.5	68.9	79.3	74.6	77.6	81.0	82.0	83.0	77.6	80.2	87.3	81.0	81.9	82.0	87.0	82.2	74.3	82.2	75.8	69.9	86.3	66.0	80.1	75.6	78.9
	Loc. Mean	80.3	76.0	76.7	80.7	78.4	74.6	66.4	80.9	74.0	76.3	79.6	81.2	84.0	74.5	79.0	85.0	80.0	77.0	80.8	79.2	81.8	75.2	79.8	76.9	70.9	84.3	81.3	79.7	78.6	78.4
	C.D. (5%)	0.00	3.95	1.51	3.08	2.74	1.24	0.22	2.50	3.86	1.99	0.00	2.86	0.96	1.19	2.49	1.31	1.03	4.15	2.08	0.54	1.35	1.82	2.98	2.92	1.84	5.75	9.48	0.33	3.61	1.45
	C.V. (%)	0.00	2.58	1.21	2.35	2.50	1.03	0.21	1.90	3.22	1.61	0.00	2.17	0.68	0.98	2.53	0.95	0.79	3.33	1.59	0.42	1.02	1.50	3.55	2.34	1.60	4.20	7.19	0.25	3.68	3.27
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81	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	0.57	0.00	0.00	0.73	0.00

BR150

Table No. 3 (Continued)

		MOISTURE % AT HARVEST																													
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV'L							
		BAJA	BARA	KANG	UDHA	Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	BANS	CHHI	GODH	UDAI	Mean	Mean
1	CMH12-675	25.7	20.0	27.4	24.5	24.4	16.0	23.0	26.9	18.4	21.1	22.1	17.5	30.0	24.0	36.6	26.0	24.9	23.2	20.9	17.0	18.0	15.3	20.1	19.9	16.5	11.4	17.4	22.3	16.9	21.6
2	HKH345	25.2	25.0	33.5	24.0	26.9	16.5	23.6	21.1	16.7	19.5	20.1	17.5	28.1	23.5	27.1	23.2	23.4	21.1	18.3	13.5	15.7	14.7	21.0	18.2	16.6	11.3	14.3	17.2	14.8	20.4
3	GYH-0461	25.4	27.0	27.9	24.5	26.2	17.5	21.7	23.0	17.1	19.8	20.7	18.0	24.4	24.5	34.3	24.4	20.8	21.7	19.1	7.5	15.1	13.5	19.7	16.8	16.4	11.5	16.9	16.7	15.4	20.2
4	CMH10-552	25.6	24.5	33.2	24.0	26.8	15.5	21.2	26.5	17.6	20.2	21.2	18.2	29.2	23.8	35.1	25.5	24.0	24.3	22.6	18.3	18.0	15.2	21.1	20.5	16.0	11.8	15.2	21.1	16.0	21.8
5	AH-1320	25.4	26.5	30.0	24.5	26.6	15.0	20.7	23.2	16.2	18.8	20.1	18.4	24.3	22.7	31.1	23.3	24.5	21.9	24.1	12.6	15.4	13.7	18.5	18.7	16.2	11.4	15.3	18.8	15.4	20.4
6	AH-1319	24.0	24.0	28.0	24.3	25.1	16.0	23.2	23.3	16.3	19.7	19.0	17.6	29.1	-	31.8	24.4	22.7	21.5	22.6	14.8	17.2	15.2	18.8	18.9	16.8	11.5	15.6	16.8	15.2	20.4
7	AH 7002	25.6	24.0	28.7	24.5	25.7	16.5	22.1	22.5	19.0	20.0	19.8	17.3	30.7	22.9	31.8	24.5	24.8	21.4	22.5	18.0	15.0	14.3	20.2	19.4	16.6	11.9	16.2	15.9	15.2	20.9
8	DAS-MH-502	25.6	25.5	30.1	24.5	26.4	16.5	21.1	23.1	17.7	19.6	22.1	17.5	30.0	23.8	29.5	24.6	23.4	22.9	19.6	15.4	16.5	14.6	20.6	19.0	16.8	10.5	15.5	16.3	14.8	20.8
9	LMH 614	23.9	25.0	29.5	25.0	25.8	17.0	24.2	25.3	18.4	21.2	21.0	17.0	25.3	24.0	29.6	23.4	24.1	23.6	22.0	16.0	15.8	14.4	21.4	19.6	17.0	10.6	15.3	19.2	15.5	21.0
10	FH 3703	25.6	22.0	29.0	25.0	25.4	14.0	21.4	23.0	16.8	18.8	20.0	17.7	25.2	22.8	29.3	23.0	22.9	22.1	18.4	13.9	15.3	15.1	18.9	18.1	16.1	11.8	14.4	20.2	15.6	20.0
11	BH 412055	25.9	25.0	33.4	24.0	27.1	13.0	24.3	26.8	19.5	20.9	20.1	17.8	29.7	22.3	30.0	24.0	27.3	22.3	21.9	15.9	16.6	14.5	20.1	19.8	16.6	11.9	15.3	21.7	16.4	21.5
12	KF-95	25.7	28.0	26.8	24.5	26.3	12.5	23.7	23.4	17.9	19.4	19.4	18.1	25.9	22.9	30.6	23.4	19.6	21.0	18.9	14.6	14.0	15.5	20.3	17.7	16.1	10.8	14.9	15.4	14.3	20.0
13	KMH12-18	26.1	25.5	32.4	24.5	27.1	15.0	24.4	22.3	17.1	19.7	21.0	18.0	28.5	-	30.8	24.6	24.3	22.9	19.2	9.4	15.8	15.4	19.9	18.1	17.2	11.2	15.4	19.6	15.8	20.7
14	EH-2244	25.2	29.0	32.7	25.3	28.0	15.5	21.6	23.9	17.7	19.7	19.8	17.4	27.9	23.4	29.2	23.5	22.2	20.7	21.9	15.7	16.4	15.2	15.5	18.2	16.6	11.4	14.8	16.4	14.8	20.6
15	K-26	23.7	29.5	31.5	24.5	27.3	13.5	24.3	24.1	18.5	20.1	20.0	17.6	20.6	22.8	29.4	22.1	20.9	24.6	20.1	15.8	15.8	15.3	17.6	18.6	17.0	10.8	17.2	16.6	15.4	20.5
16	PM 14109E	25.6	29.5	35.3	24.0	28.6	17.5	21.7	23.3	17.3	19.9	18.9	17.2	29.8	23.0	30.4	23.9	21.2	21.9	21.0	16.2	14.6	15.4	19.8	18.6	16.2	10.9	16.7	14.9	14.7	20.9
17	FH 3704	24.7	26.5	30.8	24.5	26.6	14.0	23.1	22.7	17.7	20.1	19.0	18.5	24.4	23.8	28.8	22.9	23.6	22.9	18.5	15.0	15.4	15.1	20.5	18.7	16.1	10.3	14.8	16.6	14.4	20.4
18	AH 9001	25.4	23.0	32.1	25.0	26.4	14.5	21.7	24.4	18.4	19.7	20.0	17.6	28.6	22.7	27.2	23.2	25.0	21.8	19.1	16.1	15.2	14.4	19.6	18.7	16.2	10.8	15.1	15.7	14.5	20.4
19	CMH10-527	25.6	23.0	32.2	24.5	26.3	13.5	24.4	27.3	22.6	21.9	21.4	17.8	29.7	21.8	32.8	24.7	25.5	26.0	20.0	14.5	17.3	15.1	21.4	20.0	16.6	11.1	16.0	20.7	16.1	21.7
20	DH 283	19.2	24.0	25.1	24.0	23.1	13.0	22.2	20.3	16.5	18.0	18.8	17.9	16.2	-	28.4	20.3	22.8	20.9	17.5	9.6	14.2	14.5	15.1	16.4	16.2	10.4	15.3	15.5	14.3	18.2
21	PM 14110E	25.4	23.0	31.3	24.5	26.1	15.5	22.5	23.3	16.6	19.4	20.0	17.0	27.0	21.3	31.1	23.3	21.1	21.6	21.2	14.1	13.3	14.3	18.8	17.8	16.8	10.7	16.3	16.7	15.1	20.1
22	CMH12-697	25.1	25.0	35.9	25.0	27.7	16.5	21.3	26.6	17.7	20.5	21.1	17.2	30.0	22.9	32.7	24.8	26.0	22.6	20.7	12.7	17.0	14.6	21.7	19.3	16.9	11.6	16.2	20.9	16.4	21.6
23	DMRE1403	23.6	26.5	29.6	24.5	26.0	17.5	22.9	21.0	16.0	19.3	19.0	17.6	26.2	22.5	22.5	21.5	19.6	16.8	16.3	10.5	14.5	14.3	17.6	15.6	16.8	11.5	15.7	22.1	16.5	19.4
24	KMH12-8	24.9	23.0	28.9	24.5	25.3	13.5	20.0	21.4	18.8	18.4	18.8	17.7	26.6	21.8	25.3	22.0	20.6	20.6	17.2	11.5	15.7	13.8	18.9	16.9	16.0	10.4	16.2	20.4	15.8	19.4
25	CMH12-691	25.7	25.5	30.1	24.5	26.4	12.5	20.7	28.0	20.5	20.4	19.2	17.5	30.3	23.6	32.2	24.5	25.2	23.1	25.9	12.9	16.9	14.8	20.3	19.9	16.5	11.5	17.2	21.1	16.5	21.5
26	KDMH 100-1	25.7	23.5	29.8	24.3	25.8	13.5	20.6	23.5	17.2	18.7	19.9	17.2	22.0	22.1	25.7	21.4	21.6	20.7	20.3	12.9	15.9	14.3	19.4	17.8	16.5	10.8	15.8	16.4	14.9	19.5
27	AH-1318	25.7	22.5	28.8	23.5	25.1	14.5	20.9	20.3	16.7	18.1	19.4	17.3	24.1	23.1	28.0	22.4	20.8	19.8	18.3	12.2	13.4	12.9	16.5	16.3	16.2	11.0	14.8	18.5	15.1	19.1
28	AH-1321	25.2	21.0	28.4	24.3	24.7	15.0	19.8	23.2	16.7	18.7	23.0	17.0	25.7	22.5	29.2	23.5	23.2	23.3	18.6	14.7	16.0	13.7	19.3	18.4	16.2	11.2	16.2	21.0	16.1	20.2
29	AH 7001	23.9	25.0	28.7	24.5	25.5	14.5	23.6	21.4	17.0	19.1	19.9	16.9	26.4	21.9	28.6	22.7	20.6	20.4	20.6	13.4	13.7	13.1	19.2	17.3	16.4	10.8	14.2	17.7	14.8	19.7
30	EH-2371	25.7	27.0	31.6	25.0	27.3	16.0	22.6	22.7	17.0	19.6	19.2	16.7	26.4	23.6	28.2	22.8	24.9	22.0	21.7	14.5	16.6	13.9	18.2	18.8	17.1	11.1	16.0	21.4	16.4	20.8
31	KMH12-9	23.9	23.0	26.2	25.0	24.5	14.5	22.0	23.3	17.3	19.3	18.6	17.0	27.2	22.8	28.9	22.9	25.5	22.7	18.6	15.4	15.8	15.0	21.5	19.2	17.4	11.1	15.7	18.5	15.7	20.3
32	FH 3695	25.4	26.0	34.5	24.5	27.6	17.0	24.3	23.2	19.9	21.1	20.2	16.8	26.6	22.6	26.8	22.6	23.0	22.3	17.2	15.6	15.5	15.1	20.4	18.4	16.5	10.9	15.0	21.0	15.8	20.8

Table No. 3 (Continued)

MOISTURE % AT HARVEST																															
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV'L							
		BAJA	BARA	KANG	UDHA	Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	BANS	CHHI	GODH	UDAI	Mean	Mean
33	DH 290	23.9	22.5	28.9	25.5	25.2	14.0	21.1	20.0	16.1	17.8	19.4	17.0	18.9	24.4	23.5	20.6	22.1	18.5	17.3	10.5	14.8	13.3	15.5	16.0	16.8	11.2	14.9	13.8	14.2	18.5
34	HKH346	25.6	24.5	27.7	24.5	25.6	13.0	24.8	25.7	16.3	19.9	20.0	17.5	25.2	22.3	27.8	22.6	26.8	19.7	21.2	15.4	15.2	14.0	20.6	19.0	16.8	11.7	14.4	18.0	15.2	20.3
35	SAMH-221	26.1	27.0	28.6	25.0	26.7	12.5	20.1	26.5	16.3	18.8	19.6	17.9	28.6	23.8	30.2	24.0	21.0	22.6	21.0	14.1	15.0	15.4	21.1	18.6	16.8	11.6	15.9	19.2	15.9	20.6
36	OMH 11-1	24.0	24.5	29.3	24.5	25.6	15.0	23.0	19.9	16.1	18.5	20.0	17.2	20.2	22.9	26.8	21.4	21.7	21.3	16.3	10.3	14.6	12.9	17.0	16.3	16.4	10.9	14.1	20.9	15.6	19.1
37	LMH 514	23.9	24.5	33.0	25.0	26.6	15.5	20.1	22.7	18.8	19.3	20.1	17.1	26.3	23.5	30.6	23.5	20.5	22.0	17.2	15.4	15.4	15.5	18.6	17.8	16.9	11.2	16.3	18.6	15.7	20.3
38	DH 286	23.9	27.5	27.5	24.5	25.8	13.5	20.0	20.7	16.8	17.7	18.8	17.7	23.6	22.0	26.4	21.7	18.9	21.8	19.2	13.8	15.5	14.0	17.1	17.2	16.7	11.5	14.7	16.2	14.8	19.2
39	GYH-0656	25.7	27.5	28.3	25.0	26.6	17.0	19.8	20.6	16.2	18.4	18.9	17.3	25.1	24.0	25.6	22.2	20.9	19.5	18.1	10.9	13.6	14.7	20.9	16.9	16.9	11.2	16.1	16.3	15.1	19.6
40	AH 5021	25.4	24.5	34.3	24.0	27.0	14.0	22.2	23.6	16.4	19.0	19.9	17.1	23.5	22.9	28.9	22.4	20.4	22.3	18.1	13.1	16.3	14.7	16.2	17.3	16.8	10.7	15.6	15.4	14.6	19.8
41	BH 412071	25.6	23.5	35.9	24.0	27.2	13.0	20.0	24.1	19.8	19.2	21.2	18.1	26.7	23.0	32.5	24.3	23.5	21.9	21.4	13.2	15.4	16.3	20.7	18.9	16.2	11.6	15.7	17.6	15.3	20.8
42	JKMH 4025	25.2	23.5	35.0	24.5	27.0	12.5	23.2	24.8	19.3	19.9	21.3	18.0	30.4	23.6	33.5	25.3	26.6	25.4	20.4	13.2	17.8	16.6	21.5	20.2	16.5	10.8	16.5	22.1	16.5	21.7
43	BH 412093	25.6	23.5	30.6	24.5	26.0	15.0	20.3	24.5	19.1	19.7	20.1	17.0	29.9	21.1	31.6	23.9	24.1	25.8	19.1	16.6	16.7	16.4	20.4	19.8	17.0	10.6	17.0	19.4	16.0	21.1
44	GWH-0503	22.3	23.0	29.0	25.0	24.8	15.5	22.1	16.2	19.0	18.8	17.2	23.3	22.0	23.7	21.0	20.8	19.0	18.2	11.9	14.5	13.5	16.0	16.3	16.3	11.7	15.8	15.5	14.8	18.9	
45	GWH-0330	23.4	25.0	29.9	23.5	25.4	14.5	24.8	22.2	16.2	19.4	18.9	17.5	20.9	22.0	28.1	21.5	22.0	21.3	18.4	13.0	14.4	13.7	17.9	17.2	16.4	11.0	17.3	12.0	14.1	19.3
46	HKH347	25.9	24.0	28.0	25.0	25.7	16.5	23.8	22.3	16.6	19.8	21.2	17.3	25.7	23.0	32.7	24.0	23.2	21.7	19.0	13.5	15.8	14.4	18.7	18.0	16.4	11.0	16.1	18.3	15.4	20.4
CHECKS																															
47	Prakash	25.2	22.0	33.2	24.0	26.1	16.0	20.3	22.1	15.4	18.4	20.9	17.7	23.2	23.6	26.0	22.3	19.0	20.8	16.4	11.0	14.2	13.8	20.3	16.5	16.8	10.7	15.8	17.5	15.2	19.4
Loc. Mean		24.9	24.8	30.5	24.5	26.2	15.0	22.1	23.3	17.5	19.5	20.0	17.5	26.1	22.9	29.4	23.2	22.8	21.9	19.7	13.7	15.5	14.6	19.2	18.2	16.6	11.1	15.7	18.1	15.4	20.3
C.D. (5%)		1.34	4.66	1.58	0.70	2.42	1.18	0.24	1.68	1.38	2.22	0.98	-	2.69	0.68	1.38	2.31	2.58	0.86	2.77	2.20	0.97	0.34	2.04	1.48	0.48	1.53	1.34	0.44	1.83	0.90
C.V. (%)		3.32	9.35	3.21	1.75	6.63	4.86	0.68	4.45	4.86	8.15	3.01	-	6.36	1.78	2.90	7.99	6.99	2.44	8.67	9.87	3.84	1.44	6.56	7.74	1.79	8.49	5.27	1.50	8.50	7.87
F (Prob)		0.00	0.04	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.11	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	0.95	0.00	0.00	0.25	0.00

TABLE No. 3 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED																								OV'L						
		ZN 1				ZN 2				ZN 3				ZN 4				ZN 5														
		BAJA	BARA	KANG	UDHA	Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean	Mean
36	OMH 11-1	55.3	59.0	47.0	48.3	52.4	46.7	44.3	44.7	48.7	46.1	47.3	44.7	49.0	48.3	45.3	46.9	51.3	47.0	51.0	42.7	53.0	44.0	45.0	47.7	44.3	36.0	50.3	45.0	50.7	45.3	47.6
37	LMH 514	58.3	61.5	49.3	51.7	55.2	45.0	48.3	48.0	54.0	48.8	48.7	45.7	52.0	49.0	50.7	49.2	54.3	48.0	54.7	48.7	63.0	46.0	51.3	52.3	49.0	39.7	55.0	51.0	51.7	49.3	51.0
38	DH 286	56.3	62.5	48.0	48.7	53.9	46.0	44.7	44.3	47.7	45.7	45.0	44.7	49.3	48.3	44.3	46.3	50.0	48.0	51.3	42.3	53.0	44.3	44.7	47.7	43.3	40.7	53.7	44.0	51.3	46.6	47.9
39	GYH-0656	55.7	53.5	48.0	50.0	51.8	46.7	46.7	46.3	49.0	47.2	47.3	46.3	48.7	47.0	46.7	47.2	52.3	47.3	51.7	43.3	59.0	43.7	45.0	48.9	44.3	40.0	52.7	48.0	50.0	47.0	48.4
40	AH 5021	55.3	57.5	51.3	50.0	53.5	45.7	47.0	49.0	53.0	48.7	49.3	49.3	53.0	52.0	50.7	50.9	56.0	51.0	56.7	48.3	65.0	48.0	50.7	53.7	51.3	40.0	53.7	52.0	57.7	50.9	51.7
41	BH 412071	54.7	60.5	51.3	50.3	54.2	45.7	48.0	48.0	50.0	47.9	51.7	47.7	52.3	51.0	50.3	50.6	54.0	49.3	54.3	48.0	53.0	47.3	48.0	50.6	51.0	41.3	55.0	51.0	51.7	50.0	50.6
42	JKMH 4025	67.3	62.0	55.3	52.3	59.3	46.0	50.0	53.3	58.7	52.0	54.7	50.0	56.7	53.3	56.0	54.1	59.3	52.0	61.0	53.7	69.0	49.0	54.0	56.9	56.3	42.0	53.7	55.0	59.0	53.2	55.2
43	BH 412093	55.0	64.5	50.3	50.7	55.1	45.0	49.7	48.3	56.7	49.9	49.3	47.7	54.0	51.3	50.0	50.5	54.7	50.0	56.3	49.7	62.0	46.3	51.7	53.0	51.0	41.7	52.0	53.0	54.7	50.5	51.8
44	GWH-0503	56.7	56.0	49.0	49.0	52.7	43.0	48.0	46.0	50.0	46.8	46.3	44.0	49.0	49.0	46.0	46.9	50.0	47.0	50.7	44.0	53.0	42.7	44.0	47.3	43.3	41.7	54.7	48.0	50.3	47.6	48.1
45	GWH-0330	55.0	59.5	48.7	50.0	53.3	42.3	49.3	47.7	50.0	47.3	50.0	43.3	48.7	46.3	48.0	47.3	52.0	48.0	51.0	46.0	54.0	43.7	44.3	48.4	43.3	41.3	50.0	48.0	50.3	46.6	48.4
46	HKH347	54.0	58.0	51.3	51.3	53.7	44.3	50.0	50.7	55.7	50.2	53.3	48.0	51.3	51.0	54.3	51.6	52.7	51.3	57.7	49.7	57.0	47.0	52.0	52.5	52.0	41.0	53.0	48.0	59.3	50.7	51.8
	CHECKS																															
47	Prakash	55.0	56.0	47.7	49.3	52.0	42.7	45.7	45.7	49.0	45.8	47.3	46.3	47.7	48.3	47.0	47.3	51.0	47.3	53.0	42.7	53.0	46.3	51.0	49.2	46.0	39.0	51.7	49.0	50.3	47.2	48.3
	Loc. Mean	58.3	59.7	50.7	50.7	54.9	45.4	48.5	48.5	52.1	48.7	49.5	47.0	52.5	50.6	50.6	50.0	54.6	49.3	55.1	47.9	58.5	46.8	50.2	51.8	49.6	39.8	54.2	48.8	54.0	49.3	50.9
	C.D. (5%)	2.63	7.82	1.72	3.65	3.29	1.93	1.24	1.68	1.78	2.64	3.67	1.34	2.90	2.79	1.96	1.99	2.20	0.66	1.53	1.67	0.27	4.98	2.93	1.92	1.24	2.56	5.86	2.05	0.84	2.79	1.11
	C.V. (%)	2.78	6.51	2.09	4.44	4.30	2.62	1.58	2.14	2.10	3.88	4.57	1.76	3.41	3.29	2.39	3.18	2.49	0.82	1.71	2.14	0.29	6.56	3.60	3.52	1.54	3.96	6.67	2.59	0.96	4.53	3.93
	F (Prob)	0.00	0.05	0.00	0.13	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	0.00	0.00	0.93	0.00	0.00	0.00	0.00

TABLE No. 3 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% SILKING																														
		BAJA BARA KANG UDHA				ZN 1				ZN 2				ZN 3				ZN 4				ZN 5				OV'L						
		Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean	Mean				
36	OMH 11-1	57.3	60.0	50.7	52.7	55.2	50.0	46.3	45.0	51.7	48.3	49.3	47.0	50.7	51.7	50.3	49.8	52.3	49.0	51.3	44.7	54.0	45.7	48.0	49.3	47.7	39.7	50.7	46.0	52.3	47.3	49.8
37	LMH 514	60.7	62.5	52.7	56.0	58.0	48.7	50.3	49.3	57.0	51.3	50.7	50.0	53.0	52.3	55.0	52.2	55.3	50.0	56.0	51.0	64.0	48.0	55.0	54.2	52.3	43.3	56.3	53.0	53.7	51.7	53.4
38	DH 286	58.3	63.5	51.7	53.7	56.8	49.0	46.7	45.3	50.7	47.9	47.0	48.0	51.0	50.7	49.3	49.2	53.7	50.0	53.3	44.7	54.0	46.7	48.0	50.0	46.3	43.7	54.7	46.3	53.0	48.8	50.4
39	GYH-0656	58.0	54.5	52.0	54.3	54.7	50.7	48.7	46.7	52.0	49.5	49.3	49.0	50.0	50.3	51.7	50.1	53.3	49.3	53.0	45.3	60.0	45.0	48.7	50.7	48.0	43.3	53.7	50.0	51.7	49.3	50.7
40	AH 5021	57.3	58.5	54.3	54.0	56.0	48.7	50.3	48.7	56.0	50.9	51.3	51.7	53.0	55.0	54.7	53.1	56.3	53.0	58.3	50.7	66.0	49.7	55.3	55.6	54.3	43.0	54.7	53.0	59.0	52.8	53.9
41	BH 412071	57.0	61.5	55.3	54.7	57.1	49.0	50.7	49.7	53.0	50.6	53.7	50.3	53.7	54.0	55.0	53.3	55.3	51.3	56.0	50.7	53.7	49.7	52.3	52.7	54.3	44.3	56.0	53.0	54.3	52.4	53.1
42	JKMH 4025	70.3	63.0	58.7	57.0	62.3	49.3	52.0	53.3	61.7	54.1	56.7	51.0	58.3	58.3	60.0	56.9	60.0	55.0	63.0	55.3	70.0	53.3	57.7	59.2	59.3	45.0	53.7	57.7	60.0	55.1	57.6
43	BH 412093	57.0	65.5	54.0	56.3	58.2	48.3	52.3	49.7	59.0	52.3	51.3	50.7	55.3	55.3	54.7	53.5	56.0	52.0	58.3	52.0	63.0	50.0	55.7	55.3	54.3	44.7	54.0	54.0	57.7	52.9	54.4
44	GWH-0503	58.7	57.0	52.7	53.7	55.5	46.7	50.0	46.7	53.0	49.1	48.3	47.3	50.7	52.0	51.0	49.9	54.0	49.0	51.7	46.0	54.0	44.7	47.0	49.5	46.0	44.7	55.0	50.7	51.3	49.5	50.5
45	GWH-0330	57.3	60.5	52.7	53.7	56.0	45.7	51.3	49.3	53.0	49.8	52.0	46.7	51.3	50.0	52.3	50.5	53.7	50.0	51.7	48.3	55.0	45.7	48.3	50.4	46.7	44.0	50.3	50.0	52.3	48.7	50.9
46	CHKH347	56.3	59.0	55.0	55.7	56.5	47.3	52.0	50.7	58.3	52.1	55.3	51.0	53.0	55.3	57.0	54.3	56.0	53.3	59.3	52.0	58.0	48.7	56.3	54.8	55.3	44.0	53.3	50.0	60.7	52.7	54.1
47	Prakash	56.7	57.0	51.7	53.7	54.8	46.0	47.7	45.3	52.0	47.8	49.3	49.3	47.7	51.7	50.7	49.7	51.0	49.3	53.0	45.0	54.0	46.7	55.0	50.6	49.3	42.0	52.7	50.0	51.7	49.1	50.3
	Loc. Mean	60.7	60.7	54.1	55.2	57.7	48.9	50.7	49.1	55.1	50.9	51.5	49.6	53.8	53.7	55.1	52.7	55.7	51.4	56.5	49.9	59.4	49.0	53.9	53.7	52.8	43.0	55.1	50.4	55.7	51.4	53.2
	C.D. (5%)	2.67	7.82	1.63	2.69	3.27	1.81	1.11	1.66	1.78	2.62	3.67	1.50	2.66	1.70	1.99	2.07	2.60	0.67	1.65	1.92	0.33	2.01	3.09	1.88	1.44	2.55	6.07	2.12	0.93	2.70	1.09
	C.V. (%)	2.72	6.40	1.86	3.01	4.05	2.29	1.34	2.08	1.99	3.68	4.39	1.86	3.05	1.89	2.23	3.15	2.88	0.80	1.80	2.37	0.35	2.53	3.53	3.33	1.68	3.66	6.79	2.59	1.03	4.21	3.70
	F (Prob)	0.00	0.05	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00

TABLE No. 3 (Cont..)

DAYS TO 75% DRY HUSK																														
S.No.	PEDIGREE	ZN 1				ZN 2				ZN 3				ZN 4				ZN 5				OV'L								
		BAJA	BARA	KANG	UDHA	Mean	KANP	KARN	LUDH	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean	Mean
36	OMH 11-1	96.3	114.0	89.7	93.0	98.3	91.3	77.3	79.0	82.6	74.7	79.0	76.7	96.7	84.0	82.2	85.0	81.0	79.7	85.0	77.3	82.0	81.7	70.3	72.3	82.7	79.7	83.7	77.7	83.9
37	LMH 514	95.7	115.5	91.7	94.3	99.3	85.7	80.3	82.3	82.8	77.7	80.0	79.3	97.7	87.3	84.4	85.7	89.3	86.0	95.0	77.3	87.0	86.7	69.0	74.3	85.3	86.7	85.7	80.2	86.5
38	DH 286	94.0	114.0	88.0	93.3	97.3	87.3	77.7	80.3	81.8	79.3	78.0	84.7	94.3	84.3	84.1	85.0	85.3	79.7	85.0	77.3	81.0	82.2	73.0	75.0	85.3	80.3	82.3	79.2	84.6
39	GYH-0656	95.3	112.0	91.0	94.0	98.1	85.3	79.7	80.7	81.9	73.7	79.0	77.0	95.7	84.0	81.9	84.3	85.7	80.3	91.0	66.3	80.7	81.4	73.3	75.7	85.7	81.0	84.0	79.9	84.1
40	AH 5021	97.3	112.5	93.3	93.7	99.2	84.7	79.3	83.3	82.4	81.3	84.0	82.7	97.3	87.7	86.6	90.0	92.3	85.7	97.0	80.0	88.3	88.9	84.0	75.7	84.7	86.3	84.7	83.1	88.1
41	BH 412071	94.3	114.0	94.3	94.7	99.3	89.7	76.7	86.3	84.2	80.7	83.3	84.0	97.3	91.0	87.3	85.3	94.7	85.7	85.0	78.7	85.0	85.7	84.3	74.0	89.0	86.0	82.7	83.2	87.7
42	JKMH 4025	107.7	112.5	98.3	94.7	103.3	88.7	80.0	86.0	84.9	83.7	87.0	87.3	100.7	90.3	89.8	95.0	94.3	90.3	101.0	78.7	91.0	91.7	89.3	75.3	84.0	90.0	82.7	84.3	90.8
43	BH 412093	97.3	113.5	93.0	94.3	99.5	91.3	81.3	86.3	86.3	78.3	87.0	85.3	99.3	88.7	87.7	90.7	90.7	87.0	94.0	79.3	89.3	88.5	86.0	74.3	83.3	86.3	85.7	83.1	88.8
44	GWH-0503	96.0	113.0	91.7	93.7	98.6	92.0	77.0	81.3	83.4	76.7	85.0	78.3	97.3	85.3	84.5	85.0	81.3	81.0	85.0	72.0	81.0	80.9	82.3	76.3	87.3	82.0	82.7	82.1	85.4
45	GWH-0330	96.7	113.0	91.7	93.7	98.7	91.3	81.3	79.7	84.1	80.0	83.0	79.7	98.0	84.3	85.0	85.0	81.3	83.3	86.0	74.3	81.7	81.9	82.3	75.7	82.3	81.3	83.0	80.9	85.6
46	HKH347	108.7	113.0	94.0	94.3	102.5	92.3	84.0	87.3	87.9	87.0	88.0	82.7	100.7	92.0	90.1	93.0	96.0	87.0	89.0	80.7	89.3	89.2	91.3	75.0	85.3	81.3	86.7	83.9	90.4
CHECKS																														
47	Prakash	95.3	113.0	90.7	94.0	98.3	91.7	78.7	84.3	84.9	78.7	81.0	80.7	98.7	84.7	84.7	85.0	86.3	80.0	85.0	77.3	88.7	83.7	77.0	74.7	82.7	81.3	79.7	79.1	85.6
	Loc. Mean	99.2	113.0	92.9	94.2	99.8	88.2	80.6	83.2	84.0	80.9	84.6	81.8	98.3	87.5	86.4	89.1	89.2	84.9	90.5	81.6	87.1	87.1	83.6	74.4	85.7	82.5	84.9	82.2	87.7
	C.D. (5%)	2.89	3.61	1.77	1.50	2.91	1.63	1.11	2.64	4.92	3.06	2.08	4.58	1.89	2.17	3.02	0.80	3.32	1.92	-	14.90	1.87	3.49	2.83	2.69	8.32	2.70	1.07	4.12	1.65
	C.V. (%)	1.80	1.59	1.18	0.98	2.08	1.14	0.85	1.96	3.61	2.33	1.52	3.46	1.14	1.53	2.81	0.55	2.29	1.40	-	11.26	1.33	3.53	2.09	2.23	5.98	2.01	0.78	4.02	3.26
	F (Prob)	0.00	0.64	0.00	0.24	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	-	0.04	0.00	0.00	0.00	0.20	0.98	0.00	0.00	0.01	0.00

Table No. 3 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)																														
		BAJA BARA KANG UDHA				ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		OV'L								
						Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean	Mean
37	LMH 514	207	148	197	200	188	177	203	205	266	213	215	162	159	190	150	175	195	198	234	188	147	222	147	190	239	140	155	182	200	183	189
38	DH 286	207	131	212	207	189	183	217	204	235	210	196	164	171	177	157	173	185	186	217	185	157	213	150	185	238	205	148	180	215	197	190
39	GYH-0656	193	127	226	200	186	177	213	188	233	203	195	167	163	183	162	174	185	169	211	167	142	208	143	175	202	205	157	170	190	185	183
40	AH 5021	213	128	247	179	192	182	192	221	251	212	192	156	161	182	165	171	190	179	231	185	150	216	136	184	223	183	152	186	182	185	187
41	BH 412071	200	141	228	213	195	176	193	202	246	204	179	166	163	187	168	173	173	169	214	180	175	210	136	180	217	208	152	190	188	191	187
42	JKMH 4025	217	133	247	215	203	181	203	216	256	214	209	163	171	184	172	180	206	181	231	210	145	230	146	193	250	198	147	209	177	196	196
43	BH 412093	197	157	212	214	195	179	202	170	235	196	189	156	158	178	168	170	198	188	228	190	140	221	142	187	227	198	137	192	185	188	186
44	GWH-0503	203	164	226	204	199	149	178	224	261	203	204	164	181	185	175	182	178	187	214	180	152	208	145	180	215	203	158	193	182	190	189
45	GWH-0330	232	152	237	205	206	178	205	220	243	212	189	156	191	181	157	174	182	182	227	190	163	214	147	186	244	177	142	194	117	175	189
46	HKH347	195	143	193	204	184	181	198	213	233	206	186	151	147	175	155	163	184	171	209	210	152	208	134	181	223	204	132	190	168	183	182
CHECKS																																
47	Prakash	202	133	209	206	188	182	192	197	236	202	174	145	166	179	152	163	168	185	200	198	142	202	126	174	220	195	148	188	153	181	180
	Loc. Mean	204	140	216	200	190	179	197	202	239	204	197	161	160	181	158	171	184	180	221	186	149	209	144	182	223	192	149	187	175	185	185
	C.D. (5%)	18.77	36.21	7.12	28.91	20.05	13.77	6.59	23.74	12.84	19.19	30.12	6.22	18.01	13.46	14.32	13.19	12.82	9.28	13.61	12.46	31.30	21.65	21.45	10.80	29.48	52.04	26.34	18.93	7.08	18.59	6.88
	C.V. (%)	5.67	12.85	2.04	8.92	7.55	4.74	2.06	7.24	3.32	6.72	9.45	2.38	6.95	4.43	5.61	6.18	4.30	3.19	3.79	4.14	12.98	6.39	9.20	5.65	8.16	16.73	10.89	6.24	2.50	8.05	6.69
	F (Prob)	0.00	0.31	0.00	0.46	0.14	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	0.23	0.04	0.11	0.00	0.00	0.69	0.18	0.00	0.00	0.04	0.00

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Table No. 3 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm)																														
		BAJA BARA KANG UDHA				ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		OV'L								
		Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean	Mean				
1	CMH12-675	110	63	100	93	91	77	97	138	99	103	114	79	89	89	100	114	77	70	103	76	90	90	102	68	102	68	86	91			
2	HKH345	103	61	94	76	84	81	90	110	95	94	77	77	79	79	78	81	100	90	83	57	88	79	83	67	107	67	91	63	79	83	
3	GYH-0461	128	58	131	77	99	76	108	132	103	105	119	81	79	77	88	89	111	82	106	92	92	100	76	94	84	115	60	101	72	86	94
4	CMH10-552	132	67	121	87	102	87	95	129	119	108	108	77	96	78	92	90	111	110	109	98	53	111	69	94	96	109	77	120	87	98	97
5	AH-1320	92	71	105	85	88	88	92	96	85	90	90	69	71	84	82	79	82	97	90	77	63	92	68	81	63	96	78	94	77	82	83
6	AH-1319	107	60	98	92	89	85	88	111	84	92	99	75	71	-	80	81	86	93	95	70	65	90	67	81	71	125	62	94	73	85	85
7	AH 7002	102	53	116	84	89	86	80	97	95	90	83	67	82	74	72	75	79	85	91	78	68	92	83	82	70	102	65	92	63	79	82
8	DAS-MH-502	102	58	101	83	86	91	92	92	90	91	91	66	74	84	77	78	84	98	91	78	70	105	85	87	75	104	60	95	62	79	84
9	LMH 614	110	70	89	83	88	66	100	102	104	93	88	74	79	84	82	81	90	94	95	85	65	87	75	85	71	100	57	102	75	81	85
10	FH 3703	110	53	106	84	88	70	93	103	104	93	97	74	81	75	82	82	87	94	88	88	53	92	70	82	73	110	60	94	63	80	84
11	BH 412055	92	50	98	84	81	67	105	109	90	93	92	72	72	89	73	80	83	95	91	92	63	93	69	84	72	97	60	105	60	79	83
12	KF-95	105	51	93	79	82	65	97	110	102	93	96	71	86	88	73	83	87	82	86	82	67	84	69	80	78	97	57	94	62	78	82
13	KMH12-18	120	63	117	82	96	74	85	119	114	98	101	72	91	-	77	85	101	92	101	80	75	102	76	89	97	108	77	99	72	91	91
14	EH-2244	112	58	93	125	97	77	120	128	115	110	103	70	93	83	105	91	98	103	105	80	72	111	66	91	79	107	70	110	63	86	94
15	K-26	117	56	108	72	88	74	137	109	99	105	86	65	74	77	87	78	86	107	94	80	70	87	74	85	80	107	70	92	77	85	87
16	PM 14109E	87	57	91	88	81	76	118	97	89	95	75	65	70	80	72	72	80	99	78	93	55	97	62	81	66	100	58	84	55	73	80
17	FH 3704	107	54	87	83	83	66	95	89	97	87	67	64	72	83	48	67	83	95	79	97	52	101	79	84	67	105	52	89	60	74	79
18	AH 9001	102	71	88	82	86	67	90	102	80	85	87	59	80	83	77	77	74	98	69	75	48	99	72	76	57	97	53	87	80	75	79
19	CMH10-527	112	55	123	87	94	65	85	131	108	97	103	66	86	80	92	85	105	99	104	113	73	118	76	98	80	134	60	126	80	96	94
20	DH 283	100	63	115	77	89	76	97	98	87	90	95	60	83	-	70	77	61	83	89	72	53	83	70	73	75	105	57	91	60	78	80
21	PM 14110E	90	69	86	74	80	64	100	85	84	83	63	60	69	75	58	65	80	91	75	75	52	97	84	79	62	112	58	106	60	80	77
22	CMH12-697	145	72	141	85	111	69	107	148	127	113	119	74	93	82	87	91	128	98	116	95	73	128	85	103	112	110	62	114	103	100	103
23	DMRE1403	95	58	90	84	82	70	128	88	86	93	82	65	73	79	58	71	67	93	74	75	58	93	64	75	78	132	58	83	60	82	80
24	KMH12-8	108	53	129	82	93	67	125	122	101	104	99	75	87	80	85	85	99	97	98	78	68	106	64	87	82	100	70	95	100	89	91
25	CMH12-691	138	46	158	86	107	62	87	131	118	99	112	80	100	81	93	93	116	94	116	123	73	133	74	104	101	121	57	122	105	101	101
26	KDMH 100-1	110	58	106	76	88	75	93	101	90	90	92	69	82	78	80	80	95	92	98	85	70	96	84	89	77	99	57	91	63	77	85
27	AH-1318	100	47	101	84	83	78	87	101	89	89	73	64	70	86	70	73	92	91	86	87	67	93	79	85	81	86	65	69	70	74	81
28	AH-1321	117	69	116	94	99	83	70	108	91	88	80	73	82	83	85	80	92	96	97	90	67	102	71	88	85	105	62	92	83	85	88
29	AH 7001	118	58	114	88	94	78	118	107	107	103	91	78	83	84	87	85	106	113	100	75	75	94	86	93	84	105	62	92	97	88	92
30	EH-2371	128	58	125	91	100	77	95	121	101	98	97	83	90	77	80	85	103	115	111	107	70	119	68	99	95	97	62	105	92	90	95
31	KMH12-9	105	55	100	89	87	76	92	100	109	94	80	78	86	78	82	81	102	100	89	87	80	93	81	90	78	104	75	90	82	86	88
32	FH 3695	92	76	76	85	82	77	123	94	86	95	58	68	65	87	65	69	62	97	77	80	57	92	72	77	58	105	57	73	73	73	78

Table No. 3 (Continued)

EAR HEIGHT(cm)																																
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV'L								
		BAJA	BARA	KANG	UDHA	Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	CHHI	GODH	UDAI	Mean	Mean
33	DH 290	108	50	111	87	89	77	85	101	85	87	76	80	91	86	75	82	78	85	79	92	65	95	76	81	67	100	62	95	75	80	83
34	HKH346	97	42	101	91	83	86	140	111	92	107	69	71	69	74	75	72	70	101	89	102	67	106	68	86	66	110	63	94	87	84	86
35	SAMH-221	88	56	100	79	81	86	87	84	80	84	78	64	60	82	58	68	70	87	73	98	65	94	70	80	53	90	70	83	63	72	77
36	OMH 11-1	130	61	93	76	90	83	93	84	77	84	70	65	66	95	73	74	77	89	74	75	63	84	73	76	57	119	53	83	75	77	80
37	LMH 514	107	74	86	88	89	84	95	104	102	96	99	68	83	88	73	82	98	112	102	85	65	114	76	93	85	105	63	95	93	88	90
38	DH 286	103	60	94	92	87	87	102	103	80	93	85	74	70	84	67	76	97	92	76	82	60	130	75	87	78	109	63	87	82	84	85
39	GYH-0656	115	54	112	89	92	77	108	101	97	96	87	69	91	81	77	81	95	91	93	115	57	132	78	94	77	124	72	90	80	89	90
40	AH 5021	125	57	115	75	93	86	85	122	106	100	87	70	79	80	80	79	94	107	104	78	67	120	66	91	78	111	67	102	87	89	90
41	BH 412071	100	56	114	94	91	86	95	93	102	94	76	65	74	83	68	73	79	97	90	72	83	106	73	86	72	122	65	99	72	86	85
42	JKMH 4025	108	57	135	92	98	94	102	119	112	107	101	66	84	86	83	84	97	101	110	90	63	120	78	94	91	109	65	109	82	91	94
43	BH 412093	90	64	91	85	82	91	95	99	94	95	98	66	80	78	73	79	90	96	89	90	60	113	72	87	74	115	55	97	80	84	85
44	GWH-0503	117	67	129	81	98	95	88	127	113	106	95	77	102	77	90	88	91	92	87	103	72	108	68	89	75	132	77	103	93	96	94
45	GWH-0330	152	81	103	89	106	95	110	123	114	111	90	68	124	83	83	89	103	114	102	107	77	95	78	97	93	104	63	107	82	90	98
46	HKH347	95	65	91	94	86	91	102	117	90	100	69	64	71	75	70	70	91	95	84	105	57	100	67	86	65	107	50	126	83	87	85
CHECKS																																
47	Prakash	120	54	105	93	93	94	95	99	90	95	74	58	85	78	72	73	89	108	82	83	62	85	67	82	79	102	65	128	62	87	85
	Loc. Mean	110	60	106	86	90	79	99	109	98	96	89	70	81	81	77	80	89	97	92	88	66	102	74	87	77	108	63	98	76	84	87
	C.D. (5%)	19.7	20.9	7.2	23.1	16.3	3.0	5.2	16.0	9.7	17.1	21.8	4.2	14.5	8.8	10.5	10.2	10.5	9.6	9.4	10.5	20.0	27.2	17.8	9.5	13.4	28.4	18.7	28.6	6.1	12.1	5.4
	C.V. (%)	11.1	17.5	4.2	16.6	12.9	2.4	3.2	9.1	6.1	12.7	15.1	3.7	11.0	6.5	8.4	10.2	7.2	6.1	6.3	7.4	18.9	16.5	14.9	10.5	10.8	16.2	18.3	18.0	5.0	11.5	11.2
	F (Prob)	0.00	0.23	0.00	0.48	0.01	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	0.00	0.04	0.01	0.55	0.00	0.00	0.40	0.38	0.03	0.00	0.00	0.00

TABLE No. 4: PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, BARAPANI, KANGRA, UDHAMPUR, KANPUR, KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, BHUBANESHWAR, DHOLI, RANCHI, VARANASI, ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, VAGARAI, AMBIKAPUR, BANSWARA, GODHRA, JHABUA, UDAIPUR IN IVT TRIAL No. 64 (IVT-EX) DURING KHARIF (2014)

SI No PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																																		
	ZN 1														ZN 2							ZN 3													
	ALMO	R	BAJA	R	BARA	R	KANG	R	UDHA	R	MEAN	R	KANP	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R	
1 DH 277	5699	8	6777	9	2642	4	3270	10	6673	11	5012	9	6460	5	5566	10	4280	8	7618	13	5981	10	4866	5	3427	10	5681	10	6317	3	3848	5	4828	8	
2 AH-1316	6039	5	6403	12	2110	10	3165	11	7304	4	5004	10	5627	11	7215	6	4622	5	7701	12	6291	8	4528	9	3328	11	5360	13	7981	1	3681	8	4976	7	
3 APH 27	6002	6	7621	3	2548	6	3475	9	6969	10	5323	5	5904	8	7870	2	4739	3	9602	4	7029	4	7638	1	4727	4	5582	11	5456	8	6576	2	5996	1	
4 EH-2234	5769	7	6444	11	2636	5	4285	2	7327	3	5292	6	6243	7	7594	3	3797	11	8522	8	6539	7	4182	12	3490	9	6341	4	4787	12	3062	10	4373	12	
5 DH 285	4951	12	6774	10	1288	13	3725	6	6634	12	4674	13	6475	4	5155	11	4031	9	7998	11	5915	11	4823	7	3679	8	7025	1	4787	11	1130	13	4289	13	
6 FH 3706	6373	2	7372	5	1744	12	2732	13	7000	9	5044	8	5013	13	4862	12	3713	13	8549	7	5534	13	4291	11	3170	13	5878	8	5348	9	3760	7	4489	11	
7 DH 287	6047	4	8467	2	2411	8	4223	3	7073	7	5644	3	5873	9	4821	13	4380	6	8212	9	5822	12	4771	8	5759	2	5845	9	6257	4	3789	6	5284	5	
8 DH 289	5627	9	7339	6	2456	7	3599	7	7035	8	5211	7	6545	3	7314	5	3781	12	8776	6	6604	5	4844	6	3275	12	6381	3	5797	6	2444	11	4548	10	
9 DH 288	5367	11	6292	13	2408	9	3067	12	7098	6	4846	12	7001	2	6211	8	4708	4	10201	1	7030	3	5874	4	4264	6	6431	2	5819	5	3260	9	5130	6	
10 EH-2236	5527	10	8521	1	2071	11	3534	8	7444	1	5419	4	6362	6	9774	1	4903	2	9687	3	7682	1	4425	10	5998	1	6064	6	5142	10	6105	3	5547	4	
11 AH-1317	4839	13	7231	8	2665	3	3978	5	6004	13	4943	11	7794	1	7531	4	4368	7	9062	5	7189	2	6796	2	3734	7	6028	7	6412	2	5697	4	5733	2	
CHECKS																																			
12 Vivek Hybrid-21	6147	3	7438	4	3580	1	4432	1	7394	2	5798	2	5865	10	5666	9	5543	1	8048	10	6280	9	3823	13	5543	3	6288	5	5762	7	2224	12	4728	9	
13 Vivek Hybrid-43	7513	1	7243	7	2924	2	4066	4	7272	5	5804	1	5400	12	6885	7	3894	10	10135	2	6579	6	6643	3	4395	5	5510	12	4575	13	7055	1	5635	3	
Location Mean	5838		7225		2422		3658		7017		5232		6197		6651		4366		8778		6498		5193		4215		6032		5726		4049		5043		
C.D. (5%)	751		602		941		562		347		641		1056		509		926		1433		981		745		390		1178		1147		865		865		
C.V. (%)	7.62		4.94		22.99		9.09		2.93		-		10.09		4.53		12.56		9.66		-		8.5		5.48		11.56		11.86		12.64		-		
F (Prob)	0		0		0.007		0		0		-		0.001		0		0.014		0.004		-		0		0		0.217		0		0		-		
Plot Size	4.8		4.2		3.6		2.4		4.8		-		4.8		6		5.46		6		-		4.8		4.8		6		5.6		4.8		-		
AGRONOMY DATA																																			
Sowing Date	1-07		21-06		25-06		22-06		8-07		-		26-07		28-06		10-07		24-06		-		3-07		26-06		10-07		10-07		4-07		-		-
Harvest Date	24-10		3-10		1-10		30-09		1-11		-		10-11		27-09		27-10		29-09		-		24-09		8-10		23-10		15-10		6-10		-		-
Irrigation Nos	-		3		-		-		-		-		2		4		5		1		-		-		-		2		-		1		-		-
Fertilizer Applied N	80		120		80		120		120		-		120		150		125		120		-		120		120		120		120		100		-		-
Fertilizer Applied P	60		60		60		60		60		-		60		60		60		60		-		60		60		60		60		60		-		-
Fertilizer Applied K	40		40		40		40		40		-		50		60		30		40		-		40		60		40		40		40		-		-

TABLE No. 4:

SI No	PEDIGREE	ZN 4																				ZN 5		OV'L								
		ARBH	R	COIM	R	HYDE	R	KARI	R	KOLH	R	MAND	R	VAGA	R	MEAN	R	AMBI	R	BANS	R	GODH	R	JHAB	R	UDAI	R	MEAN	R	MEAN	R	
1	DH 277	8093	4	6648	10	4687	11	5005	10	5539	2	5763	12	2591	9	5475	8	4612	10	3440	10	2884	10	3876	9	5165	4	3995	9	5055	9	
2	AH-1316	7450	7	7095	7	5343	8	4972	11	4813	5	5361	13	2114	13	5307	11	4891	9	2898	13	2823	11	3979	7	3711	11	3660	11	5020	11	
3	APH 27	7577	6	7663	2	4499	12	5799	4	4154	10	7770	2	2486	10	5707	6	5445	6	3497	9	3195	7	3845	10	5132	5	4223	7	5607	4	
4	EH-2234	7404	8	7407	4	5463	6	4210	13	4173	9	6018	10	2711	8	5341	10	2889	13	3337	12	3497	5	4123	5	4384	7	3646	12	5004	12	
5	DH 285	7790	5	6913	8	4164	13	5078	8	4419	8	6526	9	2177	12	5295	13	3944	12	3725	8	2390	13	3193	13	2979	13	3246	13	4684	13	
6	FH 3706	6682	10	7132	6	6612	5	5033	9	5460	3	6822	6	3537	5	5897	4	4331	11	4295	4	3731	4	3718	11	3712	10	3957	10	5033	10	
7	DH 287	5963	13	5836	12	7070	3	5141	7	3560	12	7129	4	2381	11	5297	12	5502	5	4083	7	4852	2	4223	4	5115	6	4755	3	5338	7	
8	DH 289	9106	1	5630	13	5456	7	4578	12	4769	6	5918	11	3985	3	5635	7	5280	8	4516	3	3437	6	3294	12	3572	12	4020	8	5183	8	
9	DH 288	7220	9	5908	11	6622	4	5432	5	5617	1	6768	7	3499	6	5867	5	5947	2	4234	5	3944	3	4065	6	4256	9	4489	5	5443	5	
10	EH-2236	8617	2	7616	3	5088	10	6202	2	4455	7	6670	8	4149	2	6114	3	6000	1	4099	6	2531	12	4778	2	6139	2	4709	4	5842	2	
11	AH-1317	6037	12	7322	5	5319	9	5299	6	3362	13	7112	5	3393	7	5406	9	5666	4	3354	11	2925	9	3919	8	5356	3	4244	6	5431	6	
CHECKS																																
12	Vivek Hybrid-21	6559	11	7851	1	8891	1	5813	3	3812	11	8494	1	5273	1	6670	2	5667	3	4619	2	4866	1	5621	1	4374	8	5029	1	5754	3	
13	Vivek Hybrid-43	8192	3	6907	9	8527	2	6694	1	5323	4	7695	3	3800	4	6734	1	5333	7	4732	1	3102	8	4256	3	6766	1	4838	2	5955	1	
Location Mean		7438		6918		5980		5327		4574		6773		3238		5750		5039		3910		3398		4068		4666		4216		5334		
C.D. (5%)		1815		560		1004		618		832		810		812		922		649		789		356		317		847		592		802		
C.V. (%)		14.45		4.79		9.94		6.87		10.77		7.08		14.85		-		7.63		11.95		6.21		4.62		10.74		-		-		
F (Prob)		0.029		0		0		0		0		0		0		0		0		0		0		0		0		-		-		
Plot Size		4.8		4.8		6		6		6		5.6		4.8		-		6		4.8		4.8		6		4.8		-		-		
AGRONOMY DATA																																
Sowing Date		22-07		19-07		9-07		8-07		19-07		29-07		24-07		-		10-07		13-07		17-07		10-07		4-07		-		-		
Harvest Date		1-12		18-10		18-10		25-10		26-11		20-12		18-11		-		-		16-10		6-11		25-10		13-10		-		-		
Irrigation Nos		8		7		3		-		-		7		8		-		-		-		-		-		1		-		-		
Fertilizer Applied N		150		150		200		200		120		150		150		-		120		150		100		100		120		-		-		
Fertilizer Applied P		75		75		60		60		60		75		75		-		60		80		50		60		90		-		-		
Fertilizer Applied K		37.5		75		50		50		40		40		75		-		40		-		-		40		-		-		-		

TABLE No. 4 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid-21																
		ZN 1					ZN 2					ZN 3						
		ALMO	BAJA	BARA	KANG	UDHA	MEAN	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN
1	DH 277	-	-	-	-	-	10.1	-	-	-	-	-	27.3	-	-	9.6	73	2.1
2	AH-1316	-	-	-	-	-	-	-	27.4	-	-	0.2	18.4	-	-	38.5	65.5	5.2
3	APH 27	-	2.5	-	-	-	-	0.7	38.9	-	19.3	11.9	99.8	-	-	-	195.7	26.8
4	EH-2234	-	-	-	-	-	-	6.5	34	-	5.9	4.1	9.4	-	0.8	-	37.7	-
5	DH 285	-	-	-	-	-	-	10.4	-	-	-	-	26.2	-	11.7	-	-	-
6	FH 3706	3.7	-	-	-	-	-	-	-	-	6.2	-	12.2	-	-	-	69.1	-
7	DH 287	-	13.8	-	-	-	-	0.1	-	-	2	-	24.8	3.9	-	8.6	70.4	11.8
8	DH 289	-	-	-	-	-	-	11.6	29.1	-	9	5.2	26.7	-	1.5	0.6	9.9	-
9	DH 288	-	-	-	-	-	-	19.4	9.6	-	26.8	11.9	53.7	-	2.3	1	46.6	8.5
10	EH-2236	-	14.6	-	-	0.7	-	8.5	72.5	-	20.4	22.3	15.8	8.2	-	-	174.5	17.3
11	AH-1317	-	-	-	-	-	-	32.9	32.9	-	12.6	14.5	77.8	-	-	11.3	156.1	21.3
	CHECKS																	
12	Vivek Hybrid-21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Vivek Hybrid-43	22.2	-	-	-	-	0.1	-	21.5	-	25.9	4.7	73.8	-	-	-	217.2	19.2

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid-21														
		ZN 4						ZN 5					OV'L			
		ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	GODH	JHAB	UDAI	MEAN	MEAN
1	DH 277	23.4	-	-	-	45.3	-	-	-	-	-	-	-	18.1	-	-
2	AH-1316	13.6	-	-	-	26.3	-	-	-	-	-	-	-	-	-	-
3	APH 27	15.5	-	-	-	9	-	-	-	-	-	-	-	17.3	-	-
4	EH-2234	12.9	-	-	-	9.5	-	-	-	-	-	-	-	0.2	-	-
5	DH 285	18.8	-	-	-	15.9	-	-	-	-	-	-	-	-	-	-
6	FH 3706	1.9	-	-	-	43.2	-	-	-	-	-	-	-	-	-	-
7	DH 287	-	-	-	-	-	-	-	-	-	-	-	-	16.9	-	-
8	DH 289	38.8	-	-	-	25.1	-	-	-	-	-	-	-	-	-	-
9	DH 288	10.1	-	-	-	47.4	-	-	-	4.9	-	-	-	-	-	-
10	EH-2236	31.4	-	-	6.7	16.9	-	-	-	5.9	-	-	-	40.4	-	1.5
11	AH-1317	-	-	-	-	-	-	-	-	-	-	-	-	22.5	-	-
	CHECKS															
12	Vivek Hybrid-21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Vivek Hybrid-43	24.9	-	-	15.2	39.6	-	-	1	-	2.5	-	-	54.7	-	3.5

TABLE No. 4 (Cont..)

SI No	PEDIGREE	COB YIELD % SUPERIORITY OVER THE Vivek Hybrid-43																
		ZN 1					ZN 2					ZN 3						
		ALMO	BAJA	BARA	KANG	UDHA	MEAN	KANP	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN
1	DH 277	-	-	-	-	-	-	19.6	-	9.9	-	-	-	-	3.1	38.1	-	-
2	AH-1316	-	-	-	-	0.4	-	4.2	4.8	18.7	-	-	-	-	-	74.5	-	-
3	APH 27	-	5.2	-	-	-	-	9.3	14.3	21.7	-	6.8	15	7.5	1.3	19.3	-	6.4
4	EH-2234	-	-	-	5.4	0.8	-	15.6	10.3	-	-	-	-	-	15.1	4.6	-	-
5	DH 285	-	-	-	-	-	-	19.9	-	3.5	-	-	-	-	27.5	4.7	-	-
6	FH 3706	-	1.8	-	-	-	-	-	-	-	-	-	-	-	6.7	16.9	-	-
7	DH 287	-	16.9	-	3.8	-	-	8.8	-	12.5	-	-	-	31	6.1	36.8	-	-
8	DH 289	-	1.3	-	-	-	-	21.2	6.2	-	-	0.4	-	-	15.8	26.7	-	-
9	DH 288	-	-	-	-	-	-	29.7	-	20.9	0.6	6.9	-	-	16.7	27.2	-	-
10	EH-2236	-	17.6	-	-	2.4	-	17.8	42	25.9	-	16.8	-	36.5	10.1	12.4	-	-
11	AH-1317	-	-	-	-	-	-	44.3	9.4	12.2	-	9.3	2.3	-	9.4	40.2	-	1.7
	CHECKS																	
12	Vivek Hybrid-21	-	2.7	22.4	9	1.7	-	8.6	-	42.3	-	-	-	26.1	14.1	26	-	-
13	Vivek Hybrid-43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SI No	PEDIGREE	COB YIELD % SUPERIORITY OVER THE Vivek Hybrid-43														
		ZN 4							ZN 5			OV'L				
		ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	MEAN	AMBI	BANS	GODH	JHAB	UDAI	MEAN	MEAN
1	DH 277	-	-	-	-	4.1	-	-	-	-	-	-	-	-	-	-
2	AH-1316	-	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-
3	APH 27	-	10.9	-	-	-	1	-	-	2.1	-	3	-	-	-	-
4	EH-2234	-	7.2	-	-	-	-	-	-	-	-	12.7	-	-	-	-
5	DH 285	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
6	FH 3706	-	3.3	-	-	2.6	-	-	-	-	-	20.3	-	-	-	-
7	DH 287	-	-	-	-	-	-	-	-	3.2	-	56.4	-	-	-	-
8	DH 289	11.2	-	-	-	-	-	4.9	-	-	-	10.8	-	-	-	-
9	DH 288	-	-	-	-	5.5	-	-	-	11.5	-	27.1	-	-	-	-
10	EH-2236	5.2	10.3	-	-	-	-	9.2	-	12.5	-	-	12.2	-	-	-
11	AH-1317	-	6	-	-	-	-	-	-	6.2	-	-	-	-	-	-
	CHECKS															
12	Vivek Hybrid-21	-	13.7	4.3	-	-	10.4	38.8	-	6.3	-	56.8	32.1	-	4	-
13	Vivek Hybrid-43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table No. 4 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)																
							ZN 1					ZN 2					ZN 3	
		ALMO	BAJA	BARA	KANG	UDHA	Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean
1	DH 277	63.2	81.0	73.1	84.7	67.4	73.9	77.8	60.0	64.1	63.3	66.3	61.8	66.0	60.6	61.3	68.1	63.5
2	AH-1316	63.2	88.9	63.0	81.9	71.5	73.7	72.2	57.2	73.9	66.1	67.4	68.8	63.2	61.1	65.5	70.8	65.9
3	APH 27	64.6	81.0	70.4	87.5	70.8	74.8	77.8	60.0	70.2	65.0	68.2	66.7	61.8	57.2	62.5	76.4	64.9
4	EH-2234	54.9	62.7	69.4	88.9	70.8	69.3	74.3	60.6	56.8	58.3	62.5	63.9	63.9	61.1	57.1	60.4	61.3
5	DH 285	59.0	80.2	70.4	80.6	70.1	72.1	74.3	58.3	73.3	66.1	68.0	66.7	62.5	62.8	58.9	64.6	63.1
6	FH 3706	64.6	87.3	62.0	87.5	69.4	74.2	77.8	56.1	69.0	65.6	67.1	63.2	63.9	64.4	58.9	72.2	64.5
7	DH 287	63.2	82.5	72.2	87.5	68.8	74.8	71.5	56.7	67.8	65.6	65.4	68.1	66.7	62.8	58.3	72.2	65.6
8	DH 289	64.6	84.9	65.7	84.7	68.8	73.7	71.5	57.8	65.9	66.7	65.5	64.6	64.6	60.0	60.1	69.4	63.7
9	DH 288	63.2	82.5	70.4	80.6	68.8	73.1	68.8	59.4	57.4	65.6	62.8	65.3	66.7	62.8	63.1	74.3	66.4
10	EH-2236	65.3	63.5	73.1	79.2	71.5	70.5	69.4	58.3	72.6	65.0	66.4	64.6	62.5	64.4	60.1	66.7	63.7
11	AH-1317	61.8	84.1	74.1	81.9	67.4	73.9	72.9	61.7	73.3	66.7	68.6	68.8	63.9	63.9	64.9	74.3	67.1
	CHECKS																	
12	Vivek Hybrid-21	63.9	75.4	75.9	84.7	70.1	74.0	75.0	59.4	71.4	63.9	67.4	65.3	62.5	62.8	61.9	64.6	63.4
13	Vivek Hybrid-43	63.2	84.1	72.2	84.7	68.8	74.6	74.3	57.2	71.4	61.7	66.2	62.5	62.5	58.3	58.3	77.1	63.8
	Loc. Mean	62.7	79.9	70.2	84.2	69.6	73.3	73.7	58.7	68.2	64.6	66.3	65.4	63.9	61.7	60.9	70.1	64.4
	C.D. (5%)	4.28	8.00	12.49	7.72	5.02	6.03	6.95	2.69	9.48	4.60	4.96	9.18	6.43	5.64	7.93	10.20	3.63
	C.V. (%)	4.06	5.94	10.57	5.44	4.29	6.47	5.60	2.72	8.24	4.22	5.22	8.33	5.97	5.42	7.73	8.63	4.44
	F (Prob)	0.00	0.00	0.50	0.23	0.76	0.81	0.16	0.01	0.01	0.05	0.31	0.88	0.85	0.25	0.54	0.06	0.15

Table No. 4 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)												OV'L		
		ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	ZN 4			ZN 5				
								Mean	AMBI	BANS	GODH	JHAB	UDAI	Mean	Mean	
1	DH 277	68.8	65.3	66.7	52.2	48.9	57.1	59.7	59.8	59.4	56.9	62.5	62.2	61.8	60.6	64.4
2	AH-1316	73.6	66.7	66.7	50.0	50.6	64.3	54.2	60.9	61.1	56.9	78.5	61.1	61.1	63.8	65.8
3	APH 27	70.1	64.6	65.0	58.3	51.1	58.9	51.4	59.9	65.0	55.6	67.4	61.1	61.1	62.0	65.4
4	EH-2234	77.1	66.7	57.8	46.1	50.0	58.3	50.0	58.0	53.9	63.9	65.3	58.3	60.4	60.4	62.0
5	DH 285	75.7	66.0	64.4	56.7	51.1	57.7	52.8	60.6	53.3	66.0	63.2	57.8	61.1	60.3	64.4
6	FH 3706	73.6	66.7	66.1	46.1	51.1	57.7	58.3	60.0	60.6	62.5	77.1	61.1	61.1	64.5	65.5
7	DH 287	70.8	63.9	62.8	55.0	50.0	66.1	49.3	59.7	67.2	63.2	79.2	61.7	61.1	66.5	65.9
8	DH 289	77.8	66.0	70.0	44.4	50.0	60.1	58.3	60.9	67.8	56.3	75.0	58.3	59.7	63.4	65.1
9	DH 288	73.6	66.0	67.2	52.8	50.6	59.5	58.3	61.1	68.9	61.8	74.3	63.3	60.4	65.7	65.6
10	EH-2236	68.8	65.3	66.1	52.8	48.9	57.7	52.1	58.8	70.0	59.7	78.5	64.4	61.8	66.9	64.7
11	AH-1317	84.7	66.7	68.3	55.0	51.7	57.1	51.4	62.1	67.2	58.3	79.9	63.9	61.1	66.1	67.1
	CHECKS															
12	Vivek Hybrid-21	77.1	66.7	62.8	59.4	51.1	60.1	58.3	62.2	68.3	59.7	76.4	65.0	61.8	66.3	66.3
13	Vivek Hybrid-43	76.4	66.0	62.8	51.7	51.7	60.7	54.2	60.5	66.1	61.1	81.9	63.3	61.8	66.9	65.9
	Loc. Mean	74.5	65.9	65.1	52.4	50.5	59.7	54.5	60.4	63.8	60.1	73.8	61.7	61.1	64.1	65.2
	C.D. (5%)	15.01	1.83	7.84	3.48	3.77	4.72	11.02	3.48	5.00	9.68	6.49	2.75	2.37	4.97	1.97
	C.V. (%)	11.96	1.65	7.14	3.94	4.43	4.69	12.00	5.41	4.65	9.55	5.22	2.64	2.31	6.10	5.54
	F (Prob)	0.70	0.07	0.26	0.00	0.89	0.01	0.52	0.52	0.00	0.51	0.00	0.00	0.81	0.03	0.00

Table No. 4 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %														
		ZN 4												ZN 5		OV'L
		ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	GODH	JHAB	UDAI	Mean	Mean
1	DH 277	84.8	83.2	81.9	82.4	83.3	82.0	73.4	81.6	80.6	70.3	80.2	81.7	82.9	79.1	79.7
2	AH-1316	83.5	82.8	78.2	85.9	86.3	80.4	72.4	81.4	80.0	69.4	86.3	81.8	83.0	80.1	79.6
3	APH 27	85.0	79.4	75.7	77.8	78.1	81.4	69.8	78.1	76.0	71.4	84.9	81.0	82.7	79.2	78.2
4	EH-2234	86.5	82.1	78.7	83.7	84.3	82.3	72.5	81.4	75.4	72.1	87.8	86.2	82.9	80.9	80.1
5	DH 285	84.2	82.9	81.4	85.4	87.5	83.4	73.1	82.5	78.9	73.7	84.3	83.6	82.8	80.6	79.8
6	FH 3706	85.6	81.2	78.0	81.7	87.8	82.9	73.2	81.5	79.6	73.1	85.1	82.1	83.1	80.6	79.0
7	DH 287	87.8	80.3	78.5	80.3	69.8	82.5	71.5	78.7	78.6	72.6	82.1	82.0	82.7	79.6	78.8
8	DH 289	86.3	81.8	80.3	83.6	80.0	83.4	75.0	81.5	76.7	74.7	86.6	81.8	82.5	80.5	80.0
9	DH 288	85.0	75.7	77.7	83.4	87.9	84.0	74.1	81.1	77.6	72.4	87.1	81.8	82.9	80.3	79.6
10	EH-2236	82.2	80.0	74.2	78.7	85.2	81.0	69.2	78.6	72.5	71.0	70.4	80.3	82.9	75.4	77.6
11	AH-1317	86.9	78.7	77.0	81.1	86.7	82.8	71.5	80.7	76.7	73.0	83.3	78.7	82.9	78.9	79.1
	CHECKS															
12	Vivek Hybrid-21	85.1	79.6	81.6	82.4	83.0	82.0	74.7	81.2	79.0	74.0	85.3	80.9	82.9	80.4	79.8
13	Vivek Hybrid-43	85.2	80.3	80.0	81.8	86.9	80.7	73.0	81.1	75.1	72.3	83.7	82.3	83.0	79.3	79.6
	Loc. Mean	85.2	80.6	78.7	82.2	83.6	82.2	72.6	80.7	77.4	72.3	83.6	81.9	82.8	79.6	79.3
	C.D. (5%)	1.46	1.11	2.25	2.23	0.38	0.93	2.61	2.58	2.13	3.28	8.08	2.53	0.55	2.89	1.25
	C.V. (%)	1.02	0.82	1.70	1.61	0.27	0.67	2.14	3.00	1.63	2.69	5.74	1.83	0.39	2.86	2.83
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.11	0.02	0.00	0.69	0.05	0.00

Table No. 4 (Continued)

MOISTURE % AT HARVEST																		
S.No.	PEDIGREE						ZN 1					ZN 2					ZN 3	
		ALMO	BAJA	BARA	KANG	UDHA	Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean
1	DH 277	21.5	23.7	26.3	33.1	22.5	25.4	14.5	21.0	20.7	21.1	19.3	19.7	17.7	27.4	24.5	29.7	23.8
2	AH-1316	20.5	24.9	28.0	35.2	22.5	26.2	16.5	19.5	19.6	18.8	18.6	20.3	17.2	26.8	22.7	28.5	23.1
3	APH 27	20.4	25.9	25.3	39.1	24.0	26.9	16.0	20.0	20.5	22.0	19.6	22.0	17.9	29.6	22.1	30.5	24.4
4	EH-2234	22.2	25.6	24.7	34.7	23.5	26.1	13.5	23.0	20.3	22.9	19.9	20.8	18.0	26.3	23.1	26.7	23.0
5	DH 285	19.1	23.7	25.7	36.9	23.5	25.7	14.0	19.8	17.4	21.4	18.1	20.0	17.4	23.4	24.5	25.3	22.1
6	FH 3706	19.0	25.8	25.7	35.3	23.0	25.7	17.0	20.4	17.2	21.6	19.0	18.8	17.1	28.1	24.7	30.3	23.8
7	DH 287	21.9	24.7	24.0	29.7	23.5	24.8	16.0	21.0	21.4	21.7	20.0	18.9	17.3	28.8	24.1	27.4	23.3
8	DH 289	21.7	22.3	26.3	27.5	23.0	24.2	17.5	20.4	17.5	21.4	19.2	19.2	17.0	23.5	19.2	28.7	21.5
9	DH 288	20.5	25.0	25.3	37.6	23.0	26.3	17.0	19.8	20.3	22.2	19.8	19.9	17.1	27.7	22.7	29.1	23.3
10	EH-2236	23.4	25.6	24.7	37.8	23.0	26.9	14.5	19.4	22.4	22.3	19.6	21.1	16.6	28.3	27.1	34.1	25.4
11	AH-1317	20.3	25.9	25.0	35.7	23.5	26.1	13.5	21.3	22.4	20.1	19.3	19.4	17.4	28.6	24.1	28.9	23.7
CHECKS																		
12	Vivek Hybrid-21	18.2	25.4	23.3	36.4	23.0	25.3	14.5	17.3	17.5	21.6	17.7	20.8	17.1	26.4	21.5	27.8	22.7
13	Vivek Hybrid-43	19.8	26.1	24.0	38.2	22.5	26.1	15.0	21.8	19.3	24.4	20.1	21.0	18.0	29.4	23.8	29.0	24.2
Loc. Mean		20.7	24.9	25.3	35.1	23.1	25.8	15.3	20.4	19.7	21.6	19.3	20.1	17.4	27.2	23.4	28.9	23.4
C.D. (5%)		1.33	0.95	2.95	1.66	0.55	2.31	1.35	0.30	0.80	2.95	2.16	0.77	-	1.20	3.04	1.26	1.80
C.V. (%)		3.81	2.25	6.94	2.80	1.41	7.04	5.23	0.88	2.40	8.08	7.83	2.26	-	2.61	7.71	2.59	6.06
F (Prob)		0.00	0.00	0.21	0.00	0.00	0.53	0.00	0.00	0.00	0.13	0.51	0.00	-	0.00	0.01	0.00	0.01

Table No. 4 (Continued)

MOISTURE % AT HARVEST															
S.No.	PEDIGREE	ZN 4											ZN 5		OV'L
		ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	BANS	GODH	JHAB	UDAI	Mean	Mean
1	DH 277	16.5	18.7	27.4	12.3	13.5	14.9	18.0	17.3	16.8	15.4	23.0	22.1	19.3	20.9
2	AH-1316	16.1	19.1	23.8	7.4	14.6	13.5	16.3	15.8	16.5	14.8	23.0	23.0	19.3	20.3
3	APH 27	18.0	18.8	25.0	12.5	13.6	14.2	18.3	17.2	16.5	14.7	23.1	22.5	19.2	21.3
4	EH-2234	17.4	18.5	24.1	11.8	12.9	13.7	18.0	16.6	16.6	16.0	23.0	23.0	19.6	20.8
5	DH 285	17.4	17.6	19.3	6.6	13.5	13.4	16.0	14.8	16.8	15.3	23.1	22.7	19.5	19.7
6	FH 3706	19.0	16.5	25.8	9.0	13.5	12.3	17.9	16.3	16.9	16.1	23.0	22.0	19.5	20.6
7	DH 287	16.8	17.6	23.0	9.6	14.0	12.5	17.3	15.8	16.8	14.9	22.9	22.7	19.3	20.3
8	DH 289	16.1	18.0	19.9	8.6	14.9	13.4	16.1	15.3	16.4	16.2	23.2	22.1	19.5	19.6
9	DH 288	14.8	19.1	24.0	10.2	13.7	14.2	17.3	16.1	16.5	16.0	23.0	22.9	19.6	20.7
10	EH-2236	18.8	20.1	22.6	14.4	14.4	15.4	17.4	17.6	16.4	16.0	23.0	21.9	19.3	21.6
11	AH-1317	16.7	19.0	22.9	12.2	13.7	12.3	18.0	16.4	16.6	15.9	22.9	21.7	19.3	20.7
CHECKS															
12	Vivek Hybrid-21	15.8	19.2	22.9	10.4	15.0	13.5	16.2	16.1	16.6	14.8	23.1	23.1	19.4	20.0
13	Vivek Hybrid-43	17.1	18.4	24.9	12.7	14.1	13.3	19.6	17.1	16.6	16.0	22.9	22.0	19.4	21.2
Loc. Mean		16.9	18.5	23.5	10.6	13.9	13.6	17.4	16.3	16.6	15.5	23.0	22.4	19.4	20.6
C.D. (5%)		2.24	0.75	2.97	1.66	1.15	0.57	2.06	1.38	0.77	0.48	0.48	0.57	0.60	0.76
C.V. (%)		7.86	2.40	7.49	9.28	4.89	2.50	7.05	7.91	2.73	1.84	1.23	1.51	2.17	6.64
F (Prob)		0.03	0.00	0.00	0.00	0.03	0.00	0.05	0.00	0.95	0.00	0.99	0.00	0.95	0.00

Table No. 4 (Continued)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED														
										ZN 4				ZN 5		OV'L
		ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	GODH	JHAB	UDAI	Mean	Mean
1	DH 277	57.3	45.0	51.0	44.7	56.0	50.0	46.7	50.1	47.0	36.7	46.3	45.0	47.3	44.5	48.0
2	AH-1316	50.3	43.0	52.0	45.0	53.0	47.3	44.7	47.9	47.3	35.0	47.0	44.0	47.0	44.1	47.6
3	APH 27	53.7	47.0	53.0	42.0	54.7	49.7	47.7	49.7	48.0	38.0	49.7	47.0	49.0	46.3	49.0
4	EH-2234	51.0	42.0	51.7	44.7	54.0	47.3	45.0	48.0	48.3	37.0	48.0	46.3	48.7	45.7	48.2
5	DH 285	53.0	42.0	48.3	41.7	57.0	45.0	43.3	47.2	42.0	37.3	43.0	42.7	46.3	42.3	45.5
6	FH 3706	51.7	41.0	50.0	42.7	59.0	45.0	43.7	47.6	44.3	35.3	48.0	43.7	46.0	43.5	46.7
7	DH 287	53.0	43.0	49.3	43.0	58.0	45.7	43.7	48.0	48.0	39.0	45.0	43.7	46.7	44.5	46.9
8	DH 289	52.7	42.0	49.0	41.7	59.0	45.7	43.7	47.7	43.3	37.3	45.0	44.3	45.7	43.1	46.4
9	DH 288	52.7	44.0	51.3	44.0	55.0	50.0	47.0	49.1	49.0	37.0	48.7	46.7	47.7	45.8	48.5
10	EH-2236	54.7	48.0	54.3	49.0	60.0	47.7	47.0	51.5	49.3	39.0	35.7	47.3	48.0	43.9	49.3
11	AH-1317	52.3	47.0	54.0	48.3	53.0	49.0	47.7	50.2	48.3	39.7	50.0	47.7	45.7	46.3	49.5
CHECKS																
12	Vivek Hybrid-21	51.3	42.0	48.7	42.0	62.0	47.3	44.7	48.3	44.0	37.7	45.7	44.0	45.3	43.3	46.9
13	Vivek Hybrid-43	53.3	42.0	50.0	43.3	62.0	47.0	45.7	49.0	47.0	39.0	47.3	45.7	48.0	45.4	48.5
Loc. Mean		52.8	43.7	51.0	44.0	57.1	47.4	45.4	48.8	46.6	37.5	46.1	45.2	47.0	44.5	47.8
C.D. (5%)		2.95	-	1.17	1.92	0.54	2.53	1.59	2.06	0.50	1.57	11.94	1.26	1.45	2.63	0.99
C.V. (%)		3.31	-	1.37	2.59	0.56	3.17	2.08	3.96	0.64	2.49	15.37	1.65	1.83	4.65	3.81
F (Prob)		0.01	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.05	0.00

Table No. 4 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING																
							ZN 1					ZN 2					ZN 3	
		ALMO	BAJA	BARA	KANG	UDHA	Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean
1	DH 277	57.0	57.7	48.7	50.0	49.3	52.5	51.3	51.3	44.0	49.3	49.0	49.3	49.7	50.0	49.0	51.3	49.9
2	AH-1316	56.7	57.7	54.7	51.7	50.7	54.3	50.0	50.7	45.0	49.3	48.8	48.3	49.0	49.3	49.0	52.3	49.6
3	APH 27	59.3	59.3	54.3	51.7	54.7	55.9	48.3	49.7	45.7	50.3	48.5	49.7	50.0	51.7	49.7	55.0	51.2
4	EH-2234	58.0	58.7	49.7	51.3	52.3	54.0	51.3	52.7	47.3	51.3	50.7	50.3	51.0	51.0	48.7	52.3	50.7
5	DH 285	53.3	54.0	54.0	46.3	48.3	51.2	47.7	47.7	42.0	48.3	46.4	46.7	45.7	46.3	49.0	46.0	46.7
6	FH 3706	55.3	55.7	55.0	48.7	48.0	52.5	49.3	50.7	43.7	47.3	47.8	47.0	48.7	48.7	48.3	52.0	48.9
7	DH 287	54.7	56.3	51.3	47.7	49.0	51.8	50.7	47.3	45.0	49.3	48.1	47.3	50.3	48.3	49.0	48.3	48.7
8	DH 289	56.0	56.7	54.7	48.7	49.0	53.0	47.0	49.0	43.7	48.3	47.0	46.0	47.3	47.3	47.7	50.3	47.7
9	DH 288	61.3	59.0	50.0	51.7	51.0	54.6	51.3	49.7	45.7	50.0	49.2	51.3	51.0	50.0	49.7	51.7	50.7
10	EH-2236	64.3	60.0	47.0	53.7	53.7	55.7	48.0	48.7	48.0	51.3	49.0	51.7	52.0	52.7	49.0	55.0	52.1
11	AH-1317	61.0	60.3	55.3	55.0	54.0	57.1	49.0	50.3	47.0	51.0	49.3	48.0	50.0	52.0	50.3	55.0	51.1
	CHECKS																	
12	Vivek Hybrid-21	55.7	57.3	56.7	49.0	48.7	53.5	51.0	49.7	42.7	48.0	47.8	44.7	48.0	49.0	50.7	48.3	48.1
13	Vivek Hybrid-43	58.0	58.7	57.0	53.3	52.7	55.9	47.3	48.7	46.3	51.3	48.4	49.3	50.0	50.0	50.3	54.0	50.7
	Loc. Mean	57.7	57.8	52.9	50.7	50.9	54.0	49.4	49.7	45.1	49.6	48.5	48.4	49.4	49.7	49.3	51.7	49.7
	C.D. (5%)	1.22	1.98	2.46	3.30	2.02	2.77	1.45	1.27	2.19	2.21	1.92	3.09	1.42	1.82	1.46	1.79	1.68
	C.V. (%)	1.25	2.03	2.76	3.87	2.36	4.03	1.74	1.51	2.89	2.65	2.76	3.78	1.71	2.17	1.75	2.06	2.66
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.00

Table No. 4 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING														
		ZN 4												ZN 5	OV'L	
		ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	GODH	JHAB	UDAI	Mean	Mean
1	DH 277	54.3	47.0	51.7	46.7	57.0	50.3	49.7	51.0	50.0	40.0	48.0	47.7	49.3	47.0	50.0
2	AH-1316	51.3	45.0	52.0	46.0	54.0	48.7	47.7	49.2	51.0	38.0	49.0	46.7	49.0	46.7	49.7
3	APH 27	54.0	49.0	54.0	44.3	55.0	50.7	50.3	51.0	51.3	41.0	51.0	48.7	51.3	48.7	51.2
4	EH-2234	51.7	44.0	52.0	45.7	55.0	49.0	48.0	49.3	51.3	40.0	49.7	48.7	50.7	48.1	50.4
5	DH 285	52.3	44.0	49.3	44.0	58.0	46.7	46.3	48.7	45.7	40.3	44.0	46.3	48.3	44.9	47.7
6	FH 3706	52.3	43.0	50.3	44.7	60.0	46.7	46.7	49.1	49.0	38.3	49.3	46.0	48.0	46.1	48.9
7	DH 287	53.0	45.0	50.3	44.7	59.0	48.0	46.3	49.5	51.7	42.0	46.3	47.3	48.0	47.1	49.1
8	DH 289	53.0	45.0	49.7	43.7	60.0	47.7	46.7	49.4	46.3	40.3	46.0	47.0	48.7	45.7	48.7
9	DH 288	54.0	46.0	52.0	45.3	56.0	49.7	49.3	50.3	52.0	40.3	49.7	49.0	50.3	48.3	50.7
10	EH-2236	55.7	50.0	54.7	50.3	61.0	51.0	49.3	53.1	52.7	42.0	51.0	50.3	50.0	49.2	52.0
11	AH-1317	52.3	49.0	54.3	49.3	54.0	50.0	50.3	51.3	52.0	42.3	51.0	49.7	48.0	48.6	51.6
	CHECKS															
12	Vivek Hybrid-21	51.3	44.0	49.7	44.0	63.0	48.3	47.7	49.7	47.3	40.7	46.7	46.3	48.0	45.8	49.1
13	Vivek Hybrid-43	53.7	44.0	51.7	45.0	63.0	49.0	49.3	50.8	50.3	42.3	48.7	47.7	49.3	47.7	50.8
	Loc. Mean	53.0	45.8	51.7	45.7	58.1	48.9	48.3	50.2	50.1	40.6	48.5	47.8	49.2	47.2	50.0
	C.D. (5%)	3.30	-	1.08	1.87	0.00	1.56	1.94	1.85	1.49	1.56	2.87	1.53	1.52	1.60	0.90
	C.V. (%)	3.70	-	1.25	2.43	0.00	1.90	2.39	3.46	1.77	2.27	3.51	1.90	1.83	2.66	3.28
	F (Prob)	0.28	-	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. 4 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK															
							ZN 1			ZN 2					ZN 3		
		ALMO	BAJA	BARA	KANG	UDHA	Mean	KANP	KARN	LUDH	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean
1	DH 277	98.3	90.7	82.7	87.0	84.0	88.5	86.7	79.3	77.3	81.1	78.3	83.0	77.0	86.3	86.7	82.3
2	AH-1316	98.3	95.0	90.3	89.3	85.3	91.7	89.7	78.7	77.0	81.8	77.3	85.0	77.0	86.3	84.7	82.1
3	APH 27	97.7	95.3	91.0	89.0	83.0	91.2	91.0	78.7	76.7	82.1	78.7	79.3	80.0	86.3	85.3	81.9
4	EH-2234	97.3	97.7	86.7	88.3	85.3	91.1	89.0	79.7	76.7	81.8	80.7	84.0	76.7	86.0	90.0	83.5
5	DH 285	91.7	89.7	91.7	83.7	85.7	88.5	89.7	79.7	75.3	81.6	76.3	78.7	71.7	85.0	78.3	78.0
6	FH 3706	95.3	94.7	91.7	84.3	84.0	90.0	88.0	82.7	73.7	81.4	74.3	82.7	73.0	85.3	84.7	80.0
7	DH 287	96.7	92.3	88.0	84.7	86.0	89.5	89.3	81.3	75.3	82.0	75.7	84.0	78.3	86.0	81.3	81.1
8	DH 289	95.7	92.0	92.0	86.7	83.7	90.0	89.3	76.0	74.3	79.9	76.0	84.0	72.3	85.7	84.3	80.5
9	DH 288	99.3	94.3	86.7	88.7	83.0	90.4	90.0	76.7	76.0	80.9	80.0	85.0	78.3	87.3	83.3	82.8
10	EH-2236	101.7	97.3	86.0	90.7	84.7	92.1	84.7	77.7	78.7	80.3	79.7	87.0	80.0	87.0	87.3	84.2
11	AH-1317	99.0	95.7	91.7	94.3	84.3	93.0	88.0	82.3	76.7	82.3	80.7	84.0	79.0	86.0	88.3	83.6
	CHECKS																
12	Vivek Hybrid-21	95.3	93.3	92.7	86.7	84.3	90.5	87.3	78.7	75.0	80.3	79.3	80.7	75.7	86.3	81.0	80.6
13	Vivek Hybrid-43	98.3	97.0	94.0	90.3	83.0	92.5	85.7	76.7	75.7	79.3	78.7	84.0	75.3	86.3	87.0	82.3
	Loc. Mean	97.3	94.2	89.6	88.0	84.3	90.7	88.3	79.1	76.0	81.1	78.1	83.2	76.5	86.2	84.8	81.7
	C.D. (5%)	1.41	2.99	2.84	1.60	2.28	3.04	1.64	1.27	2.65	3.15	3.90	1.43	3.24	1.32	3.27	2.36
	C.V. (%)	0.86	1.88	1.88	1.08	1.61	2.64	1.10	0.95	2.07	2.30	2.96	1.02	2.51	0.91	2.29	2.27
	F (Prob)	0.00	0.00	0.00	0.00	0.12	0.09	0.00	0.00	0.05	0.70	0.04	0.00	0.00	0.09	0.00	0.00

Table No. 4 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK													
		COIM	HYDE	KARI	KOLH	MAND	VAGA	ZN 4					ZN 5		OV'L
								Mean	AMBI	BANS	GODH	UDAI	Mean	Mean	Mean
1	DH 277	82.0	80.7	79.3	86.0	85.0	82.0	82.5	85.0	73.7	78.7	79.7	79.2	83.0	
2	AH-1316	80.0	82.7	80.0	82.7	87.7	80.3	82.2	79.3	69.0	79.3	79.7	76.8	83.2	
3	APH 27	86.0	90.7	81.0	84.0	89.0	82.0	85.4	76.0	77.3	81.3	80.3	78.8	84.3	
4	EH-2234	78.3	83.0	81.3	83.7	87.3	81.0	82.4	85.0	71.0	79.7	79.7	78.8	83.8	
5	DH 285	78.0	79.7	81.0	87.0	87.3	77.7	81.8	74.0	73.7	75.0	77.7	75.1	81.2	
6	FH 3706	77.0	85.0	80.3	88.7	85.3	78.3	82.4	77.3	71.3	80.7	78.0	76.8	82.4	
7	DH 287	80.0	85.7	80.3	88.0	88.0	77.7	83.3	78.3	74.3	77.7	78.3	77.2	82.9	
8	DH 289	80.0	79.3	80.7	89.0	86.0	78.7	82.3	78.0	72.7	77.7	78.3	76.7	82.3	
9	DH 288	81.0	84.7	80.0	85.0	87.0	81.0	83.1	82.0	74.0	80.3	79.3	78.9	83.6	
10	EH-2236	87.0	86.3	79.7	90.0	90.0	82.3	85.9	77.3	77.7	81.3	79.3	78.9	84.9	
11	AH-1317	86.0	86.3	82.0	83.0	88.0	80.3	84.3	81.0	72.3	81.7	77.7	78.2	84.7	
	CHECKS														
12	Vivek Hybrid-21	80.0	82.3	81.3	92.0	88.0	79.3	83.8	76.0	71.3	77.7	77.7	75.7	82.7	
13	Vivek Hybrid-43	78.0	88.7	81.0	92.0	88.0	82.3	85.0	82.0	76.0	80.0	79.3	79.3	84.3	
	Loc. Mean	81.0	84.2	80.6	87.0	87.4	80.2	83.4	79.3	73.4	79.3	78.8	77.7	83.4	
	C.D. (5%)	0.27	3.45	1.65	0.43	1.29	1.70	2.71	1.46	2.98	3.97	0.98	3.18	1.27	
	C.V. (%)	0.20	2.43	1.21	0.29	0.88	1.26	2.82	1.09	2.41	2.97	0.74	2.85	2.63	
	F (Prob)	0.00	0.00	0.11	0.00	0.00	0.00	0.04	0.00	0.00	0.07	0.00	0.12	0.00	

Table No. 4 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)																
							ZN 1			ZN 2					ZN 3			
		ALMO	BAJA	BARA	KANG	UDHA	Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean
1	DH 277	183.3	215.0	165.0	203.3	192.0	191.7	158.7	180.0	175.7	231.7	186.5	182.2	140.1	170.5	166.3	161.7	164.1
2	AH-1316	180.0	185.0	199.3	187.3	177.0	185.7	170.0	156.7	152.7	202.0	170.3	163.8	149.1	150.8	172.4	135.0	154.2
3	APH 27	196.7	171.7	181.3	208.3	200.7	191.7	178.0	191.7	166.3	245.3	195.3	190.6	147.5	153.0	166.4	156.7	162.8
4	EH-2234	188.3	188.3	159.3	228.7	177.0	188.3	185.3	156.7	185.3	247.7	193.8	196.0	141.9	168.7	176.5	148.3	166.3
5	DH 285	178.3	160.0	158.3	206.0	208.7	182.3	187.0	200.0	163.7	206.0	189.2	169.7	162.9	141.2	165.1	143.3	156.4
6	FH 3706	180.0	171.7	175.0	198.7	183.0	181.7	198.3	180.0	166.7	208.7	188.4	159.5	159.7	151.5	171.3	143.3	157.1
7	DH 287	198.3	183.3	181.3	214.3	176.3	190.7	200.0	163.3	166.3	209.7	184.8	165.0	143.0	163.7	174.1	143.3	157.8
8	DH 289	181.7	173.3	150.3	208.7	187.3	180.3	165.3	168.3	154.0	205.0	173.2	165.5	139.1	154.2	163.4	136.7	151.8
9	DH 288	190.0	180.0	166.7	206.7	214.3	191.5	172.0	150.0	165.3	218.7	176.5	171.0	145.1	172.7	163.3	143.3	159.1
10	EH-2236	196.7	190.0	160.0	237.0	185.0	193.7	163.3	173.3	190.0	242.3	192.3	185.4	156.6	168.5	172.9	156.7	168.0
11	AH-1317	178.3	176.7	160.7	206.7	194.3	183.3	170.0	170.0	140.7	208.0	172.2	160.4	159.1	146.0	172.8	146.7	157.0
	CHECKS																	
12	Vivek Hybrid-21	186.7	171.7	180.7	195.3	188.0	184.5	182.0	135.0	157.7	216.0	172.7	170.0	149.4	152.0	164.7	140.0	155.2
13	Vivek Hybrid-43	181.7	146.7	207.0	194.7	197.3	185.5	182.0	141.7	132.0	203.3	164.8	146.4	133.8	130.8	171.7	123.3	141.2
	Loc. Mean	186.2	177.9	172.7	207.4	190.8	187.0	177.8	166.7	162.8	218.8	181.5	171.2	148.2	155.7	169.3	144.5	157.8
	C.D. (5%)	8.43	25.28	16.95	9.06	31.19	18.23	4.26	9.32	19.83	18.45	21.02	22.11	6.10	16.55	7.87	16.18	11.27
	C.V. (%)	2.69	8.43	5.82	2.59	9.70	7.67	1.42	3.32	7.23	5.00	8.07	7.66	2.44	6.31	2.76	6.65	5.62
	F (Prob)	0.00	0.00	0.00	0.00	0.30	0.90	0.00	0.00	0.00	0.00	0.06	0.01	0.00	0.00	0.01	0.01	0.00

Table No. 4 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)														
		ZN 4											ZN 5	OV'L		
		ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	Mean	AMBI	BANS	GODH	JHAB	UDAI	Mean	Mean
1	DH 277	174.5	168.9	215.7	166.7	145.0	201.0	144.2	173.7	204.3	204.0	136.3	152.7	175.0	174.5	177.4
2	AH-1316	154.5	153.8	196.7	131.7	126.7	180.3	132.5	153.7	174.6	200.0	155.3	149.4	180.0	171.9	166.0
3	APH 27	153.0	167.2	222.0	165.0	125.0	204.0	138.3	167.8	198.3	206.7	151.3	168.8	170.0	179.0	177.8
4	EH-2234	148.5	162.5	226.7	155.0	126.7	200.0	153.6	167.6	181.6	223.7	165.0	162.9	183.3	183.3	178.4
5	DH 285	154.5	152.5	209.0	115.0	138.3	176.3	129.9	153.7	170.8	176.7	162.0	143.0	183.3	167.2	167.8
6	FH 3706	170.0	159.4	213.7	138.3	140.0	188.3	140.8	164.4	191.5	187.0	162.3	153.0	180.0	174.8	172.0
7	DH 287	158.5	156.7	221.7	140.0	113.3	194.0	124.3	158.4	193.0	187.0	164.3	147.8	186.7	175.8	171.9
8	DH 289	162.5	157.4	210.3	135.0	130.0	192.7	149.2	162.4	194.5	212.0	148.3	144.7	180.0	175.9	168.1
9	DH 288	175.5	160.7	223.0	135.0	128.3	196.0	138.2	165.3	198.0	190.7	158.3	159.4	181.7	177.6	173.2
10	EH-2236	163.5	168.9	225.0	161.7	138.3	211.7	142.1	173.0	193.9	178.3	172.3	166.7	181.7	178.6	180.1
11	AH-1317	151.0	172.0	199.0	148.3	105.0	159.3	140.2	153.6	191.7	205.3	162.0	154.5	176.7	178.0	167.5
	CHECKS															
12	Vivek Hybrid-21	140.5	149.4	230.3	136.7	125.0	194.7	129.5	158.0	185.4	230.0	175.0	158.7	183.3	186.5	170.3
13	Vivek Hybrid-43	160.0	157.9	198.0	130.0	115.0	191.3	115.4	152.5	164.2	225.7	158.3	126.3	168.3	168.6	161.6
	Loc. Mean	159.0	160.6	214.7	142.9	127.4	191.5	136.8	161.8	187.8	202.1	159.3	152.9	179.2	176.3	171.7
	C.D. (5%)	13.12	6.00	15.63	8.09	26.94	20.01	16.17	10.21	16.29	48.21	21.22	9.96	11.10	15.17	6.36
	C.V. (%)	4.90	2.22	4.32	3.36	12.54	6.20	7.01	5.92	5.15	14.16	7.91	3.86	3.67	6.77	6.79
	F (Prob)	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.38	0.08	0.00	0.07	0.47	0.00

Table No. 4 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm)																
							ZN 1					ZN 2					ZN 3	
		ALMO	BAJA	BARA	KANG	UDHA	Mean	KANP	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean
1	DH 277	85.0	115.0	73.3	101.0	93.7	93.6	68.0	90.0	93.3	87.3	84.7	84.0	61.2	90.0	74.0	70.0	75.8
2	AH-1316	85.0	98.3	101.3	93.0	87.3	93.0	71.7	70.0	80.0	78.7	75.1	80.5	65.7	78.3	74.9	70.0	73.9
3	APH 27	90.0	81.7	86.7	98.3	94.0	90.1	72.3	81.7	82.7	82.7	79.8	80.7	64.1	74.2	69.9	75.0	72.8
4	EH-2234	86.7	95.0	64.3	111.7	88.0	89.1	64.0	70.0	98.3	86.7	79.8	77.6	64.7	79.2	73.0	55.0	69.9
5	DH 285	81.7	83.3	80.7	99.7	103.0	89.7	63.0	90.0	82.3	70.7	76.5	68.8	72.4	72.7	65.6	71.7	70.2
6	FH 3706	83.3	68.3	87.0	89.3	90.0	83.6	62.7	55.0	64.3	53.7	58.9	47.0	69.5	54.3	71.5	43.3	57.1
7	DH 287	93.3	86.3	78.0	98.7	81.3	87.5	71.7	76.7	79.0	69.0	74.1	63.0	69.5	76.7	73.3	63.3	69.2
8	DH 289	88.3	91.7	70.7	100.3	91.3	88.5	62.0	100.0	73.3	71.7	76.8	61.4	57.8	78.2	62.9	46.7	61.4
9	DH 288	88.3	90.0	62.7	99.7	102.0	88.5	66.7	80.0	84.7	78.7	77.5	70.9	63.9	82.8	65.7	78.3	72.3
10	EH-2236	103.3	90.0	73.3	114.0	89.0	93.9	68.7	103.3	90.7	85.0	86.9	83.6	72.0	80.0	76.0	90.0	80.3
11	AH-1317	83.3	95.0	83.0	88.3	90.7	88.1	66.0	80.0	77.7	74.3	74.5	75.6	73.1	78.8	75.7	70.0	74.6
	CHECKS																	
12	Vivek Hybrid-21	80.0	70.0	86.7	91.0	90.3	83.6	71.7	48.3	62.7	55.0	59.4	54.3	70.7	58.8	70.1	53.3	61.5
13	Vivek Hybrid-43	83.3	71.7	100.3	91.0	96.7	88.6	77.0	81.7	55.7	62.7	69.3	54.8	58.4	57.5	72.8	53.3	59.4
	Loc. Mean	87.1	87.4	80.6	98.2	92.1	89.1	68.1	79.0	78.8	73.5	74.9	69.4	66.4	74.0	71.2	64.6	69.1
	C.D. (5%)	5.95	10.72	12.13	7.31	17.41	12.61	2.67	8.80	15.79	10.17	13.66	21.96	3.92	17.26	7.02	16.61	9.86
	C.V. (%)	4.05	7.28	8.93	4.42	11.22	11.14	2.32	6.62	11.89	8.21	12.72	18.78	3.51	13.85	5.85	15.26	11.21
	F (Prob)	0.00	0.00	0.00	0.00	0.49	0.88	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.01	0.00	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : KOLHAPUR 26.7%

Table No. 4 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm)											Mean	Mean	
		ARBH	COIM	HYDE	KARI	KOLH	MAND	VAGA	ZN 4			ZN 5			OV'L
								Mean	AMBI	BANS	GODH	UDAI	Mean	Mean	
1	DH 277	79.5	79.6	90.3	65.0	63.3	101.7	77.6	82.3	74.1	122.3	60.7	80.0	84.3	84.0
2	AH-1316	65.0	76.2	77.0	66.7	50.0	98.3	68.9	75.3	63.8	121.7	65.0	86.7	84.3	80.2
3	APH 27	73.5	84.8	86.0	70.0	43.3	98.7	75.8	81.5	62.5	118.7	64.0	71.7	79.2	80.8
4	EH-2234	64.5	80.3	90.0	58.3	43.3	97.0	83.1	78.9	56.5	142.0	71.7	75.0	86.3	80.5
5	DH 285	63.0	72.7	85.0	50.0	55.0	87.3	67.5	70.9	55.2	98.7	70.0	75.0	74.7	76.2
6	FH 3706	77.5	66.4	70.3	53.3	60.0	89.0	69.1	71.0	54.1	115.3	73.3	85.0	82.0	70.5
7	DH 287	69.5	80.8	85.3	55.0	40.0	92.7	64.1	74.6	58.0	119.0	75.0	83.3	83.8	77.6
8	DH 289	66.5	82.8	81.3	58.3	50.0	86.3	73.8	74.8	58.0	127.3	56.7	76.7	79.7	76.0
9	DH 288	88.5	78.3	94.3	68.3	48.3	103.3	74.3	84.5	67.4	120.3	74.3	85.0	86.8	82.0
10	EH-2236	70.5	90.9	89.7	91.7	56.7	102.7	74.1	86.6	72.4	108.3	78.3	91.7	87.7	87.1
11	AH-1317	74.5	73.5	85.7	66.7	43.3	86.7	77.5	77.4	64.9	108.0	68.3	80.0	80.3	79.1
	CHECKS														
12	Vivek Hybrid-21	60.5	72.8	74.7	53.3	45.0	92.7	60.7	69.1	45.2	127.0	74.3	85.0	82.9	71.2
13	Vivek Hybrid-43	67.5	72.2	66.0	60.0	43.3	91.7	58.1	69.2	40.6	113.7	64.7	78.3	74.3	72.1
	Loc. Mean	70.8	77.8	82.7	62.8	49.4	94.5	71.1	76.6	59.4	118.6	68.9	81.0	82.0	78.3
	C.D. (5%)	9.45	6.77	9.70	7.93	22.19	9.07	9.93	6.87	8.96	31.34	17.93	8.92	11.96	4.67
	C.V. (%)	7.92	5.17	6.96	7.49	26.68	5.70	8.28	7.76	8.95	15.68	15.44	6.53	10.17	10.50
	F (Prob)	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.48	0.42	0.00	0.44	0.00

TABLE No. 5: PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT ALIGARH, GURDASPUR, HISAR, JHANSI, KANPUR, KAPURTHALA, KARNAL, LUDHIANA, PANTNAGAR IN AVT1 TRIAL No. 65Z2 (AVT1-L-Z2) DURING KHARIF(2014)

SI No PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										
	ALIG R	GURD R	HISA R	JHAN R	KANP R	KAPU R	KARN R	LUDH R	PANT R	MEAN R	ZN 2
1 VNR 31834	7086	3 6823	4 6197	2 4966	2 5285	5 5776	4 10043	2 8421	4 13369	2 7552	2
2 X35D601 CHECKS	11099	1 9628	1 4862	7 4048	5 5324	3 5916	2 9184	3 12121	1 14118	1 8478	1
3 PMH3	7098	2 7651	2 5617	4 5062	1 5131	6 3670	7 7504	6 9331	2 10499	5 6840	4
4 BIO-9681	4236	6 5382	6 5569	5 4130	4 5707	2 5228	5 8233	4 8062	6 9493	6 6227	6
5 Seedtech 2324	6710	4 7557	3 6351	1 4908	3 5286	4 5990	1 10813	1 8275	5 11198	4 7454	3
6 HM11	3636	7 3587	7 5294	6 2557	7 5016	7 5160	6 7851	5 5587	7 7184	7 5097	7
7 PMH1	6543	5 6298	5 6106	3 3365	6 5922	1 5797	3 7262	7 8791	3 11466	3 6839	5
Location Mean	6630	6704	5714	4148	5382	5363	8698	8655	11047	6927	
C.D. (5%)	1567	1602	893	649	483	629	311	1070	1954	1018	
C.V. (%)	13.15	13.3	8.69	8.7	4.99	6.52	1.99	6.88	9.85	-	
F (Prob)	0	0	0.022	0	0.014	0	0	0	0		
Plot Size	9.6	10.92	12	9.6	9.6	9.6	12	10.92	12	-	
AGRONOMY DATA											
Sowing Date	7-02	29-06	15-07	21-07	26-07	9-07	27-06	27-06	24-06	-	
Harvest Date	-	7-10	30-10	24-10	10-11	3-11	6-10	17-10	31-10	-	
Irrigation Nos	2	2	5	1	2	3	6	5	1	-	
Fertilizer Applied N	120	125	150	120	120	125	150	125	120	-	
Fertilizer Applied P	60	60	60	60	60	60	60	60	60	-	
Fertilizer Applied K	50	-	60	-	50	30	60	30	40	-	

TABLE No. 5 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH3										GRAIN YIELD % SUPERIORITY OVER THE BIO-9681									
		ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	MEAN	ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	MEAN
1	VNR 31834	-	-	10.3	-	3	57.4	33.8	-	27.3	10.4	67.3	26.8	11.3	20.3	-	10.5	22	4.5	40.8	21.3
2	X35D601 CHECKS	56.4	25.8	-	-	3.8	61.2	22.4	29.9	34.5	23.9	162	78.9	-	-	-	13.2	11.6	50.3	48.7	36.2
3	PMH3	-	-	-	-	-	-	-	-	-	-	67.6	42.2	0.9	22.6	-	-	-	15.7	10.6	9.9
4	BIO-9681	-	-	-	-	11.2	42.5	9.7	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Seedtech 2324	-	-	13.1	-	3	63.2	44.1	-	6.7	9	58.4	40.4	14	18.9	-	14.6	31.3	2.6	18	19.7
6	HM11	-	-	-	-	-	40.6	4.6	-	-	-	-	-	-	-	-	-	-	-	-	-
7	PMH1	-	-	8.7	-	15.4	57.9	-	-	9.2	-	54.5	17	9.6	-	3.8	10.9	-	9	20.8	9.8

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seedtech 2324										GRAIN YIELD % SUPERIORITY OVER THE HM11									
		ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	MEAN	ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	MEAN
1	VNR 31834	5.6	-	-	1.2	-	-	-	1.8	19.4	1.3	94.9	90.2	17.1	94.2	5.4	11.9	27.9	50.7	86.1	48.2
2	X35D601 CHECKS	65.4	27.4	-	-	0.7	-	-	46.5	26.1	13.7	205.2	168.4	-	58.3	6.1	14.7	17	116.9	96.5	66.3
3	PMH3	5.8	1.2	-	3.1	-	-	-	12.8	-	-	95.2	113.3	6.1	97.9	2.3	-	-	67	46.2	34.2
4	BIO-9681	-	-	-	-	8	-	-	-	-	-	16.5	50	5.2	61.5	13.8	1.3	4.9	44.3	32.2	22.2
5	Seedtech 2324	-	-	-	-	-	-	-	-	-	-	84.5	110.7	20	91.9	5.4	16.1	37.7	48.1	55.9	46.2
6	HM11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	PMH1	-	-	-	-	12	-	-	6.2	2.4	-	79.9	75.6	15.3	31.6	18.1	12.3	-	57.3	59.6	34.2

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH1									
		ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	MEAN
1	VNR 31834	8.3	8.3	1.5	47.6	-	-	38.3	-	16.6	10.4
2	X35D601 CHECKS	69.6	52.9	-	20.3	-	2.1	26.5	37.9	23.1	24
3	PMH3	8.5	21.5	-	50.4	-	-	3.3	6.1	-	0
4	BIO-9681	-	-	-	22.7	-	-	13.4	-	-	-
5	Seedtech 2324	2.6	20	4	45.8	-	3.3	48.9	-	-	9
6	HM11	-	-	-	-	-	-	8.1	-	-	-
7	PMH1	-	-	-	-	-	-	-	-	-	-

Table No. 5 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %										MOISTURE % AT HARVEST									
		ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	Mean	ALIG	GURD	HISA	JHAN	KANP	KARN	LUDH	PANT	Mean	
		ZN 2										ZN 2									
1	VNR 31834	72.3	81.0	69.0	77.7	75.7	57.7	66.1	84.1	87.2	74.5	22.7	21.9	29.6	20.7	15.3	22.4	24.2	23.4	22.5	
2	X35D601	73.0	82.7	67.5	81.0	75.0	59.5	65.5	87.2	86.2	75.3	24.0	21.9	29.8	21.7	15.7	21.6	23.6	17.8	22.0	
	CHECKS																				
3	PMH3	71.0	82.8	67.3	73.7	74.7	59.0	65.9	87.2	83.1	73.8	24.7	21.8	29.5	20.7	16.3	23.1	24.9	20.1	22.6	
4	BIO-9681	66.0	83.0	68.1	82.0	75.7	63.6	66.9	85.5	85.4	75.1	21.7	22.0	28.2	21.0	15.7	22.3	20.0	17.1	21.0	
5	Seedtech 2324	65.0	81.9	69.0	79.7	77.3	62.3	65.4	87.6	83.2	74.6	24.7	21.5	30.7	20.7	16.3	22.2	22.3	19.1	22.2	
6	HM11	65.7	80.4	68.3	80.0	74.7	66.8	67.0	81.7	81.7	74.0	22.0	22.0	29.8	23.3	15.7	21.3	20.9	21.2	22.0	
7	PMH1	69.7	81.3	69.3	79.0	76.7	56.5	67.9	83.3	83.0	74.1	24.0	21.8	28.3	16.7	16.3	23.4	23.7	19.2	21.7	
	Loc. Mean	69.0	81.9	68.4	79.0	75.7	60.8	66.4	85.2	84.2	74.5	23.4	21.8	29.4	20.7	15.9	22.3	22.8	19.7	22.0	
	C.D. (5%)	2.78	2.08	1.72	3.93	1.90	4.03	0.33	3.28	4.00	2.17	2.13	0.36	1.95	2.58	1.32	0.30	1.54	1.81	1.35	
	C.V. (%)	2.27	1.43	1.42	2.80	1.41	3.72	0.28	2.17	2.67	3.07	5.11	0.94	3.72	7.03	4.65	0.75	3.81	5.17	6.09	
	F (Prob)	0.00	0.11	0.15	0.01	0.06	0.00	0.00	0.01	0.09	0.78	0.04	0.07	0.14	0.01	0.49	0.00	0.00	0.00	0.25	
S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)										DAYS TO 50% POLLEN SHED									
		ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	Mean	ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	Mean
		ZN 2										ZN 2									
1	VNR 31834	68.4	48.8	61.7	78.1	78.1	70.8	63.3	62.0	63.1	66.0	54.3	54.0	56.3	51.3	52.3	54.7	55.0	56.3	56.3	54.5
2	X35D601	101.0	58.9	56.4	77.8	80.2	71.9	62.5	73.0	62.5	71.6	54.3	56.7	58.3	51.7	45.3	54.0	58.3	53.7	54.3	54.1
	CHECKS																				
3	PMH3	65.3	46.4	60.6	79.2	78.1	75.0	63.3	64.7	59.2	65.7	51.7	58.0	59.7	52.3	52.3	53.7	58.3	54.7	58.3	55.4
4	BIO-9681	64.2	41.5	60.0	77.8	78.8	74.0	62.8	64.1	51.9	63.9	44.3	52.0	56.0	49.0	45.3	53.7	53.0	47.0	50.0	50.0
5	Seedtech 2324	68.4	52.2	60.8	81.3	80.9	79.2	63.6	68.4	63.1	68.6	45.7	54.7	57.0	51.3	49.0	54.7	55.3	54.7	56.0	53.1
6	HM11	55.9	37.5	58.6	77.1	79.9	73.6	63.3	63.2	56.4	62.8	47.3	49.0	56.3	51.7	51.0	55.3	54.0	52.0	55.3	52.4
7	PMH1	63.5	48.2	60.0	77.8	79.9	70.1	62.8	70.5	64.7	66.4	49.3	56.0	57.0	51.3	48.0	54.0	56.3	54.3	56.0	53.6
	Loc. Mean	69.5	47.7	59.7	78.4	79.4	73.5	63.1	66.5	60.1	66.4	49.6	54.3	57.2	51.2	49.0	54.3	55.8	53.2	55.2	53.3
	C.D. (5%)	14.81	13.58	7.90	4.01	2.04	5.33	1.97	5.81	3.79	5.14	1.07	3.44	2.89	2.68	1.50	2.73	1.50	2.10	3.19	1.86
	C.V. (%)	11.97	16.02	7.44	2.88	1.45	4.08	1.75	4.91	3.54	8.17	1.22	3.56	2.84	2.95	1.72	2.82	1.52	2.21	3.25	3.67
	F (Prob)	0.00	0.08	0.82	0.39	0.07	0.05	0.86	0.01	0.00	0.03	0.00	0.00	0.15	0.27	0.00	0.80	0.00	0.00	0.00	0.00

Table No. 5 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING										DAYS TO 75% DRY HUSK									
		ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	Mean	ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	Mean	
		ZN 2										ZN 2									
1	VNR 31834	60.3	54.7	58.7	55.7	56.0	63.3	58.0	57.3	58.7	58.1	84.7	90.0	96.3	93.7	97.3	104.3	90.0	91.3	93.5	
2	X35D601	60.0	57.3	60.0	56.0	48.3	60.7	60.3	55.0	58.0	57.3	88.0	92.3	101.3	95.3	93.3	105.0	92.3	90.7	94.8	
	CHECKS																				
3	PMH3	58.0	59.7	62.3	55.7	56.0	59.0	61.3	55.7	61.3	58.8	81.7	89.7	95.0	92.0	94.7	101.3	91.3	89.0	91.8	
4	BIO-9681	51.3	52.0	58.3	52.3	48.7	63.0	55.0	47.7	53.0	53.5	79.3	86.0	88.7	88.7	92.7	101.7	88.0	82.7	88.5	
5	Seedtech 2324	51.7	55.0	59.3	54.7	52.7	59.7	57.3	56.0	59.0	56.1	84.0	90.7	93.0	93.7	97.3	102.7	89.3	89.0	92.5	
6	HM11	52.7	49.3	58.7	56.0	54.3	62.0	56.0	53.0	59.0	55.7	84.7	87.0	95.0	96.3	100.3	106.3	89.0	87.0	93.2	
7	PMH1	55.0	56.3	59.0	54.0	51.3	59.0	59.3	55.7	59.0	56.5	80.0	87.7	94.7	91.0	95.7	98.3	91.3	90.7	91.2	
	Loc. Mean	55.6	54.9	59.5	54.9	52.5	61.0	58.2	54.3	58.3	56.6	83.2	89.0	94.9	93.0	95.9	102.8	90.2	88.6	92.2	
	C.D. (5%)	1.11	3.74	3.19	2.52	1.24	2.64	1.50	1.84	2.58	2.09	1.32	4.67	4.82	3.21	1.96	5.15	1.50	1.20	2.03	
	C.V. (%)	1.12	3.83	3.02	2.58	1.33	2.44	1.45	1.91	2.49	3.89	0.89	2.95	2.86	1.94	1.15	2.82	0.94	0.76	2.18	
	F (Prob)	0.00	0.00	0.19	0.06	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.08	0.00	0.00	0.00	

S.No.	PEDIGREE	PLANT HEIGHT(cm)										EAR HEIGHT(cm)									
		ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	Mean	ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	Mean
		ZN 2										ZN 2									
1	VNR 31834	255.3	220.0	161.9	207.0	175.4	152.8	193.3	233.3	246.3	205.1	115.3	115.0	63.6	80.0	88.4	86.1	93.3	126.7	101.0	96.6
2	X35D601	289.0	245.0	204.9	245.7	181.9	187.7	195.0	243.3	281.7	230.5	137.0	125.0	85.4	92.7	81.5	103.8	110.0	133.3	122.3	110.1
	CHECKS																				
3	PMH3	290.3	235.0	175.7	265.0	173.4	198.8	203.3	246.7	272.3	228.9	128.7	125.0	62.6	115.3	87.1	107.7	111.7	133.3	115.3	109.6
4	BIO-9681	261.3	205.0	198.1	223.3	177.9	171.6	173.3	251.7	248.0	212.3	96.7	91.7	65.4	105.0	90.9	66.9	68.3	113.3	83.3	86.8
5	Seedtech 2324	249.3	226.7	175.4	207.3	181.5	162.2	173.3	236.7	254.3	207.4	122.3	128.3	77.6	105.7	86.1	92.5	98.3	126.7	112.3	105.5
6	HM11	265.0	230.0	190.9	209.7	181.7	157.2	158.3	221.7	238.7	205.9	111.3	116.7	74.9	110.3	79.8	81.6	93.3	113.3	87.3	96.5
7	PMH1	289.7	245.0	199.7	236.7	185.3	188.4	211.7	236.7	284.3	230.8	133.0	138.3	79.5	103.3	75.9	112.2	121.7	135.0	129.3	114.2
	Loc. Mean	271.4	229.5	186.7	227.8	179.6	174.1	186.9	238.6	260.8	217.3	120.6	120.0	72.7	101.8	84.3	93.0	99.5	126.0	107.3	102.8
	C.D. (5%)	12.55	23.97	11.74	5.83	7.81	12.47	5.93	17.65	11.65	10.87	9.50	16.37	7.59	4.53	2.48	7.71	6.68	18.75	12.46	9.18
	C.V. (%)	2.60	5.87	3.54	1.44	2.44	4.03	1.78	4.16	2.51	5.28	4.43	7.67	5.87	2.50	1.66	4.66	3.77	8.37	6.53	9.42
	F (Prob)	0.00	0.04	0.00	0.00	0.07	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00

TABLE No. 6: PERFORMANCE OF LATE MATURITY EXPERIMENTAL HYBRIDS AT BAHRAICH, BHUBANESHWAR, CHHAPRA, DHOLI, KORAPUT, RANCHI, VARANASI IN TRIAL No. 65Z3 DURING KHARIF (2014)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												GRAIN YIELD % SUPERIORITY OVER THE PMH3											
		BAHR	R	BHUB	R	CHHA	R	DHOL	R	KORA	R	RANC	R	VARA	R	MEAN	R	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	MEAN
1	DKC 9133(IM9133)	5351	13	5896	7	4007	7	4477	9	7885	5	9361	3	7864	5	6406	3	-	8.7	8.5	9	17.8	8.1	15.6	9.4
2	DKC 9141(IM8539)	5373	12	5644	9	4125	5	4803	3	7482	8	8972	5	8131	3	6361	4	-	4	11.7	16.9	11.8	3.6	19.5	8.7
3	HTMH 5108	5053	15	6838	3	3728	12	4318	11	6016	15	9635	2	7965	4	6222	8	-	26	0.9	5.1	-	11.2	17	6.3
4	HTMH 5202	5485	11	5716	8	3631	15	4144	15	7803	6	9654	1	5783	16	6031	11	-	5.3	-	0.9	16.6	11.5	-	3
5	HTMH 5404	5001	16	5585	11	3801	10	4340	10	7947	4	8684	7	7108	10	6067	10	-	2.9	2.9	5.6	18.7	0.3	4.4	3.6
6	KMH-2811	4914	17	5104	17	3691	14	4151	14	7486	7	7629	16	4706	18	5383	18	-	-	-	1	11.8	-	-	-
7	RMH-972	6249	5	7854	1	4203	3	4699	5	4998	18	8374	13	7522	7	6271	7	12	44.7	13.8	14.4	-	-	10.5	7.1
8	SUPER GA-105	5574	10	5606	10	3534	18	4081	18	8051	3	7818	15	6773	12	5919	13	-	3.3	-	-	20.3	-	-	1.1
9	VNR 31355	6613	4	6418	4	4056	6	4533	8	8329	1	8767	6	7260	9	6568	2	18.5	18.3	9.8	10.3	24.4	1.2	6.7	12.2
10	VNR 31834	7090	3	5569	12	3794	11	4266	12	7027	10	8054	14	7599	6	6200	9	27	2.6	2.7	3.8	5	-	11.7	5.9
11	SIRI 4527	4590	18	6197	6	4430	2	5085	2	7001	11	8664	9	8374	1	6334	5	-	14.2	19.9	23.8	4.6	0	23	8.2
12	JH 12247	5855	7	5018	18	4462	1	5227	1	6880	12	8676	8	8196	2	6331	6	4.9	-	20.8	27.2	2.8	0.2	20.4	8.2
13	BIO 032(BB032) CHECKS	5727	8	5539	14	3990	8	4657	6	5942	16	8513	11	6755	13	5875	14	2.6	2.1	8	13.4	-	-	-	0.4
14	PMH3	5581	9	5426	16	3694	13	4108	17	6695	13	8662	10	6806	11	5853	15	-	-	-	-	-	-	-	-
15	BIO-9681	5871	6	7160	2	3585	17	4189	13	7353	9	7572	17	5155	17	5841	16	5.2	32	-	2	9.8	-	-	-
16	Seedtech 2324	7409	2	5539	13	4156	4	4801	4	5352	17	8393	12	5936	15	5941	12	32.7	2.1	12.5	16.8	-	-	-	1.5
17	HM11	5142	14	5494	15	3894	9	4564	7	6038	14	7472	18	5961	14	5509	17	-	1.3	5.4	11.1	-	-	-	-
18	PMH1	9292	1	6314	5	3597	16	4134	16	8305	2	9192	4	7271	8	6872	1	66.5	16.4	-	0.6	24.1	6.1	6.8	17.4
Location Mean		5898	5940	3910	4477	7033	8561	6954	6110																
C.D. (5%)		535	434	666	759	764	930	1647	820																
C.V. (%)		5.46	4.4	10.26	10.21	6.54	6.54	11.17	-																
F (Prob)		0	0	0.118	0.07	0	0	0.003																	
Plot Size		9.6	9.6	12	12	9.6	11.2	9.6	-																
AGRONOMY DATA																									
Sowing Date		2-07	24-06	23-07	11-07	3-07	5-07	27-06	-																
Harvest Date		11-10	22-10	3-11	16-10	3-11	1-11	23-10	-																
Irrigation Nos		-	-	2	2	-	-	2	-																
Fertilizer Applied N		120	120	100	120	120	120	120	-																
Fertilizer Applied P		60	60	60	60	60	60	60	-																
Fertilizer Applied K		40	60	40	40	60	40	40	-																

TABLE No. 6 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9681							ZN 3 MEAN	GRAIN YIELD % SUPERIORITY OVER THE Seedtech 2324							ZN 3 MEAN
		BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA		BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	
1	DKC 9133(IM9133)	-	-	11.8	6.9	7.2	23.6	52.6	9.7	-	6.5	-	-	47.3	11.5	32.5	7.8
2	DKC 9141(IM8539)	-	-	15	14.7	1.7	18.5	57.7	8.9	-	1.9	-	0	39.8	6.9	37	7.1
3	HTMH 5108	-	-	4	3.1	-	27.3	54.5	6.5	-	23.4	-	-	12.4	14.8	34.2	4.7
4	HTMH 5202	-	-	1.3	-	6.1	27.5	12.2	3.3	-	3.2	-	-	45.8	15	-	1.5
5	HTMH 5404	-	-	6	3.6	8.1	14.7	37.9	3.9	-	0.8	-	-	48.5	3.5	19.7	2.1
6	KMH-2811	-	-	2.9	-	1.8	0.8	-	-	-	-	-	-	39.9	-	-	-
7	RMH-972	6.4	9.7	17.2	12.2	-	10.6	45.9	7.4	-	41.8	1.1	-	-	-	26.7	5.6
8	SUPER GA-105	-	-	-	-	9.5	3.3	31.4	1.3	-	1.2	-	-	50.4	-	14.1	-
9	VNR 31355	12.6	-	13.1	8.2	13.3	15.8	40.8	12.5	-	15.9	-	-	55.6	4.5	22.3	10.6
10	VNR 31834	20.8	-	5.8	1.8	-	6.4	47.4	6.1	-	0.5	-	-	31.3	-	28	4.4
11	SIRI 4527	-	-	23.6	21.4	-	14.4	62.4	8.4	-	11.9	6.6	5.9	30.8	3.2	41.1	6.6
12	JH 12247	-	-	24.5	24.8	-	14.6	59	8.4	-	-	7.4	8.9	28.5	3.4	38.1	6.6
13	BIO 032(BB032) CHECKS	-	-	11.3	11.2	-	12.4	31	0.6	-	-	-	-	11	1.4	13.8	-
14	PMH3	-	-	3	-	-	14.4	32	0.2	-	-	-	-	25.1	3.2	14.6	-
15	BIO-9681	-	-	-	-	-	-	-	-	-	29.3	-	-	37.4	-	-	-
16	Seedtech 2324	26.2	-	15.9	14.6	-	10.8	15.2	1.7	-	-	-	-	-	-	-	-
17	HM11	-	-	8.6	8.9	-	-	15.6	-	-	-	-	-	12.8	-	0.4	-
18	PMH1	58.3	-	0.3	-	12.9	21.4	41.1	17.7	25.4	14	-	-	55.2	9.5	22.5	15.7
SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM11							ZN 3 MEAN	GRAIN YIELD % SUPERIORITY OVER THE PMH1							ZN 3 MEAN
		BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA		BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	
1	DKC 9133(IM9133)	4.1	7.3	2.9	-	30.6	25.3	31.9	16.3	-	-	11.4	8.3	-	1.8	8.2	-
2	DKC 9141(IM8539)	4.5	2.7	5.9	5.2	23.9	20.1	36.4	15.5	-	-	14.7	16.2	-	-	11.8	-
3	HTMH 5108	-	24.4	-	-	-	29	33.6	12.9	-	8.3	3.6	4.4	-	4.8	9.5	-
4	HTMH 5202	6.7	4	-	-	29.2	29.2	-	9.5	-	-	0.9	0.2	-	5	-	-
5	HTMH 5404	-	1.6	-	-	31.6	16.2	19.2	10.1	-	-	5.7	5	-	-	-	-
6	KMH-2811	-	-	-	-	24	2.1	-	-	-	-	2.6	0.4	-	-	-	-
7	RMH-972	21.5	42.9	8	3	-	12.1	26.2	13.8	-	24.4	16.8	13.7	-	-	3.4	-
8	SUPER GA-105	8.4	2	-	-	33.3	4.6	13.6	7.4	-	-	-	-	-	-	-	-
9	VNR 31355	28.6	16.8	4.2	-	37.9	17.3	21.8	19.2	-	1.7	12.8	9.6	0.3	-	-	-
10	VNR 31834	37.9	1.4	-	-	16.4	7.8	27.5	12.5	-	-	5.5	3.2	-	-	4.5	-
11	SIRI 4527	-	12.8	13.8	11.4	15.9	16	40.5	15	-	-	23.2	23	-	-	15.2	-
12	JH 12247	13.9	-	14.6	14.5	13.9	16.1	37.5	14.9	-	-	24.1	26.4	-	-	12.7	-
13	BIO 032(BB032) CHECKS	11.4	0.8	2.5	2	-	13.9	13.3	6.6	-	-	10.9	12.6	-	-	-	-
14	PMH3	8.5	-	-	-	10.9	15.9	14.2	6.2	-	-	2.7	-	-	-	-	-
15	BIO-9681	14.2	30.3	-	-	21.8	1.3	-	6	-	13.4	-	1.3	-	-	-	-
16	Seedtech 2324	44.1	0.8	6.8	5.2	-	12.3	-	7.8	-	-	15.5	16.1	-	-	-	-
17	HM11	-	-	-	-	-	-	-	-	-	-	8.2	10.4	-	-	-	-
18	PMH1	80.7	14.9	-	-	37.5	23	22	24.7	-	-	-	-	-	-	-	-

Table No. 6 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %							MOISTURE % AT HARVEST							STAND AT HARVEST ('000/ha)										
		BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	Mean	ZN 3	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	Mean	ZN 3	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA
1	DKC 9133(IM9133)	79.0	80.8	79.0	77.5	78.7	87.2	77.7	80.0	25.0	18.8	24.1	32.6	17.2	26.2	28.8	24.7	61.5	62.5	48.8	56.1	79.2	64.3	71.4	63.4	
2	DKC 9141(IM8539)	72.2	81.6	81.0	83.0	76.0	85.2	76.6	79.4	25.0	18.2	25.2	33.7	17.1	26.6	29.0	25.0	60.1	65.6	53.0	61.4	62.5	64.0	64.6	61.6	
3	HTMH 5108	76.1	79.8	76.0	77.0	77.8	85.6	78.7	78.7	26.1	18.7	21.6	30.1	17.2	24.3	28.5	23.8	63.5	63.2	52.0	59.7	68.8	63.1	66.7	62.4	
4	HTMH 5202	79.4	79.9	77.5	77.5	78.7	86.3	81.4	80.1	26.2	19.3	22.8	31.3	17.1	23.9	25.7	23.7	62.2	64.6	45.3	52.5	76.0	65.2	66.7	61.8	
5	HTMH 5404	78.1	79.2	80.5	81.0	80.8	87.1	77.9	80.6	25.0	17.8	26.3	34.8	17.2	23.0	32.0	25.2	69.1	63.2	49.3	56.9	78.1	64.6	72.9	64.9	
6	KMH-2811	79.2	80.3	79.0	78.0	80.1	85.5	79.4	80.2	24.5	18.1	23.3	31.8	17.2	23.9	29.9	24.1	58.3	64.6	48.5	56.1	72.9	67.3	70.8	62.6	
7	RMH-972	77.2	81.2	80.0	78.5	84.2	87.6	80.5	81.3	26.1	17.5	23.4	31.9	17.2	24.2	31.0	24.5	66.0	63.9	53.3	60.3	67.7	65.8	69.3	63.7	
8	SUPER GA-105	78.4	78.2	75.0	76.0	81.1	85.7	78.5	79.0	26.0	18.0	23.7	32.2	17.2	26.6	25.5	24.2	61.1	65.6	48.8	56.4	72.9	65.8	65.6	62.3	
9	VNR 31355	80.6	79.8	79.5	78.0	81.0	87.5	79.5	80.8	25.6	18.3	22.6	31.1	17.2	22.7	28.0	23.6	64.6	64.9	53.8	61.7	79.2	61.9	69.8	65.1	
10	VNR 31834	80.7	78.6	80.5	79.5	82.7	88.0	80.9	81.6	24.8	17.8	24.2	32.7	17.2	24.3	30.0	24.4	67.7	64.6	49.0	56.9	49.0	62.8	70.3	60.0	
11	SIRI 4527	75.4	81.2	80.5	81.0	77.6	84.1	74.3	79.2	25.5	17.7	23.1	31.6	17.1	23.6	29.8	24.0	60.1	63.2	53.3	60.8	77.1	64.9	70.3	64.2	
12	JH 12247	79.9	80.1	78.5	80.5	81.2	86.8	80.2	81.0	24.3	17.1	22.3	30.8	17.1	23.9	27.8	23.3	67.7	64.9	52.8	60.6	69.8	64.3	71.4	64.5	
13	BIO 032(BB032)	77.4	79.3	81.0	83.0	78.3	86.2	76.2	80.2	24.8	17.4	23.6	32.1	17.1	25.8	27.3	24.0	64.2	64.2	48.3	55.3	69.8	66.1	70.8	62.7	
CHECKS																										
14	PMH3	77.8	79.8	76.5	75.0	76.1	87.6	78.2	78.7	25.9	17.6	25.7	34.2	17.2	24.7	27.9	24.7	59.7	63.9	50.3	58.1	60.4	65.2	63.0	60.1	
15	BIO-9681	75.3	78.3	75.5	77.0	77.8	84.8	78.0	78.1	23.0	17.4	20.1	28.6	17.1	23.9	25.1	22.2	67.7	64.9	47.0	55.0	67.7	59.8	65.6	61.1	
16	Seedtech 2324	79.6	79.7	79.0	80.0	81.4	85.3	74.6	79.9	25.0	18.6	22.7	31.2	17.2	24.0	29.8	24.1	59.0	62.2	51.0	58.9	72.9	63.1	76.6	63.4	
17	HM11	74.8	80.9	81.0	83.0	79.8	82.4	75.6	79.6	23.1	18.5	21.4	29.9	17.2	23.9	28.9	23.3	59.4	63.9	45.0	52.8	65.6	64.9	72.9	60.6	
18	PMH1	82.0	81.1	78.5	79.0	78.7	85.9	76.2	80.2	25.9	18.2	22.0	30.5	17.2	23.6	27.9	23.6	67.7	61.5	44.5	51.9	81.3	64.9	72.4	63.4	
Loc. Mean		77.9	80.0	78.8	79.1	79.6	86.0	78.0	79.9	25.1	18.1	23.2	31.7	17.2	24.4	28.5	24.0	63.3	64.0	49.6	57.3	70.6	64.3	69.5	62.7	
C.D. (5%)		1.41	0.00	2.88	4.01	0.00	0.62	-	2.02	0.93	0.00	2.01	2.01	0.00	1.24	-	1.17	4.07	3.14	6.47	6.67	-	4.90	9.68	4.21	
C.V. (%)		1.09	0.00	2.20	3.05	0.00	0.43	-	2.38	2.25	0.00	5.23	3.83	0.00	3.07	-	4.60	3.88	2.96	7.86	7.01	-	4.59	6.60	6.34	
F (Prob)		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	0.00	0.36	0.08	0.08	0.00	0.47	0.39	0.38	

Table No. 6 (Continued)

S.No. PEDIGREE	DAYS TO 50% SILKING								DAYS TO 75% DRY HUSK							
	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	ZN 3	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	ZN 3
								Mean								Mean
1 DKC 9133(IM9133)	54.7	58.7	58.0	53.3	73.0	57.3	66.0	60.1	92.3	96.7	94.0	88.0	118.0	94.0	106.0	98.4
2 DKC 9141(IM8539)	62.3	60.0	62.7	59.0	73.7	58.0	68.0	63.4	95.3	97.0	94.7	88.7	118.7	94.0	103.5	98.8
3 HTMH 5108	57.0	58.0	56.7	53.0	72.7	56.0	65.5	59.8	89.7	96.0	94.3	88.3	118.0	93.7	99.5	97.1
4 HTMH 5202	55.7	60.3	56.3	54.0	73.7	55.3	60.5	59.4	93.7	97.7	90.3	84.3	118.7	93.0	94.5	96.0
5 HTMH 5404	58.3	59.0	60.0	57.7	73.7	58.0	68.5	62.2	95.3	97.7	93.0	87.0	118.7	93.7	101.5	98.1
6 KMH-2811	55.0	60.0	60.3	57.3	73.7	58.0	73.0	62.5	92.3	97.3	93.7	87.7	118.3	94.0	103.0	98.0
7 RMH-972	58.3	61.0	58.0	58.7	74.0	58.0	71.5	62.8	94.3	98.0	94.0	88.0	119.0	94.0	107.5	99.3
8 SUPER GA-105	60.3	59.0	56.3	55.3	72.7	53.3	62.0	59.9	92.3	97.0	93.7	87.7	117.7	94.0	97.0	97.0
9 VNR 31355	55.3	59.0	55.0	54.3	71.7	53.0	67.0	59.3	87.3	95.7	89.3	83.3	116.7	93.3	100.5	95.2
10 VNR 31834	59.7	60.0	57.3	56.3	74.0	52.3	64.5	60.6	90.7	98.0	91.7	85.7	119.0	93.0	97.5	96.5
11 SIRI 4527	56.3	59.0	56.3	55.7	73.3	52.7	65.5	59.8	88.7	97.0	91.7	85.7	118.3	93.3	99.5	96.3
12 JH 12247	56.3	58.0	55.7	55.7	71.7	53.0	69.5	60.0	90.7	95.0	92.0	86.0	116.7	93.7	106.0	97.1
13 BIO 032(BB032)	55.3	59.0	58.3	55.3	73.3	54.3	63.5	59.9	89.7	97.0	93.0	87.0	118.3	93.3	100.5	97.0
CHECKS																
14 PMH3	59.7	58.3	60.3	58.3	73.0	54.7	67.0	61.6	93.7	96.3	94.7	88.7	118.0	93.0	99.0	97.6
15 BIO-9681	54.3	58.0	58.0	55.3	71.7	52.7	65.0	59.3	87.7	95.3	88.3	82.3	116.7	92.0	99.0	94.5
16 Seedtech 2324	60.3	60.0	59.0	56.3	74.0	55.3	75.5	62.9	91.7	98.0	91.3	85.3	119.0	94.0	110.5	98.5
17 HM11	58.3	60.3	57.7	55.7	74.7	53.3	73.5	61.9	93.7	99.0	94.3	88.3	119.7	94.0	108.0	99.6
18 PMH1	60.3	59.7	59.0	56.3	73.7	53.7	71.0	62.0	90.7	97.0	91.3	85.3	118.7	93.3	99.5	96.5
Loc. Mean	57.6	59.3	58.1	56.0	73.2	54.9	67.6	61.0	91.6	97.0	92.5	86.5	118.2	93.5	101.8	97.3
C.D. (5%)	1.52	1.85	1.81	1.73	1.87	1.62	5.55	2.01	1.87	2.22	2.76	2.76	1.91	0.99	6.27	1.96
C.V. (%)	1.59	1.88	1.88	1.87	1.54	1.78	3.89	3.10	1.23	1.38	1.80	1.93	0.98	0.64	2.92	1.90
F (Prob)	0.00	0.04	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.10	0.01	0.00	0.00

Table No. 6 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)								EAR HEIGHT(cm)							
		BAHR	BHUB	CHHA	DHOL	KORA	RANC	ZN 3		BAHR	BHUB	CHHA	DHOL	KORA	RANC	ZN 3	
								VARA	Mean							VARA	Mean
1	DKC 9133(IM9133)	209.1	164.2	174.5	156.0	199.3	216.3	160.0	182.8	87.8	76.5	91.0	82.0	93.3	106.5	65.0	86.0
2	DKC 9141(IM8539)	210.4	183.1	197.5	179.0	242.0	235.9	210.0	208.3	94.5	76.2	92.3	83.3	93.0	70.9	95.0	86.5
3	HTMH 5108	175.0	161.9	168.2	149.7	198.0	228.2	160.0	177.3	75.8	71.8	82.8	73.8	88.7	108.0	77.5	82.6
4	HTMH 5202	200.5	168.7	179.8	161.3	207.0	218.7	157.5	184.8	85.6	71.2	93.5	84.5	88.0	103.7	82.5	87.0
5	HTMH 5404	205.1	163.6	178.2	159.7	205.0	238.5	155.0	186.4	96.5	75.7	93.2	84.2	104.0	120.2	77.5	93.0
6	KMH-2811	213.5	181.8	192.2	173.7	219.7	230.4	175.0	198.0	86.9	78.7	101.2	92.2	93.7	117.2	77.5	92.5
7	RMH-972	210.1	166.7	177.2	158.7	204.7	222.3	162.5	186.0	91.6	72.7	86.0	77.0	88.0	112.5	92.5	88.6
8	SUPER GA-105	207.2	177.5	183.7	165.2	215.3	221.1	160.0	190.0	75.7	75.1	91.3	82.3	90.3	104.7	70.0	84.2
9	VNR 31355	195.4	164.5	192.8	174.3	204.0	227.5	187.5	192.3	94.0	67.5	100.7	91.7	86.0	107.8	95.0	91.8
10	VNR 31834	194.1	150.5	162.3	143.8	188.3	215.9	167.5	174.6	94.3	68.2	86.7	77.7	85.0	104.7	95.0	87.4
11	SIRI 4527	193.8	186.6	176.2	157.7	224.3	216.7	170.0	189.3	79.7	85.5	85.8	76.8	102.7	115.1	97.5	91.9
12	JH 12247	219.9	177.9	191.2	172.7	215.7	223.1	192.5	199.0	95.5	85.4	102.7	93.7	104.0	105.9	102.5	98.5
13	BIO 032(BB032)	211.6	160.3	181.0	162.5	202.3	228.7	192.5	191.3	109.6	75.4	92.3	83.3	97.0	100.4	97.5	93.7
	CHECKS																
14	PMH3	207.2	198.4	185.0	166.5	236.3	221.1	195.0	201.4	105.3	93.8	95.8	86.8	113.7	111.5	102.5	101.3
15	BIO-9681	198.1	159.1	185.8	167.3	195.7	219.4	175.0	185.8	72.2	59.8	82.3	73.3	78.3	98.5	72.5	76.7
16	Seedtech 2324	195.3	175.7	174.7	156.2	212.0	206.9	152.5	181.9	101.0	80.5	97.5	88.5	102.3	101.0	82.5	93.3
17	HM11	187.5	195.5	180.0	161.5	235.0	208.5	175.0	191.9	74.8	87.0	90.0	81.0	105.3	104.9	97.5	91.5
18	PMH1	234.5	194.6	204.2	185.7	231.7	226.0	207.5	212.0	112.7	90.6	112.7	103.7	107.7	115.4	120.0	109.0
	Loc. Mean	203.8	173.9	182.5	164.0	213.1	222.5	175.3	190.7	90.7	77.3	93.2	84.2	95.6	106.0	88.9	90.9
	C.D. (5%)	18.25	8.28	14.23	14.23	3.87	13.45	24.70	9.96	12.96	5.69	13.56	13.56	2.98	25.93	20.29	8.28
	C.V. (%)	5.40	2.87	4.70	5.23	1.09	3.64	6.68	4.92	8.61	4.43	8.77	9.71	1.88	14.74	10.82	8.59
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.20	0.00	0.00

TABLE No. 7: PERFORMANCE OF LATE EXPERIMENTAL HYBRIDS AT ARBHAVI, COIMBATORE, DHARWAD, DHULE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, NASIK, PATANCHERU, VAGARAI, VRDCD IN AVT1 & AVT2 TRIAL No. 6569Z4 (AVT1-L-Z4 & AVT2-L-Z4) DURING KHARIF (2014)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																				ZN 4					
		ARBH	R	COIM	R	DHAR	R	DHUL	R	HYDE	R	KARI	R	KOLH	R	MAND	R	NASI	R	PATA	R	VAGA	R	VRDC	R	MEAN	R
1	DKC 9141 (IM8539)	12924	4	9066	11	4859	13	3963	11	10619	3	5893	12	4865	4	8608	9	11137	4	5588	7	7684	2	6247	13	7621	9
2	HTMH 5108	16669	1	11462	4	6281	11	5244	4	10709	2	8214	4	4652	5	9958	3	12361	2	5983	3	6098	10	8336	9	8830	1
3	IM 8562	13736	3	11575	3	6978	2	4918	7	11972	1	8552	2	3702	9	10227	1	9058	11	6134	1	6717	7	7776	10	8445	3
4	RMH-972	10869	10	11631	2	6385	9	3415	13	9886	5	6789	6	4271	6	8620	8	10219	6	5714	5	7478	3	9479	6	7896	7
5	X35D601	12627	6	13005	1	6844	3	5013	6	10601	4	8669	1	6219	1	9913	4	9844	9	5842	4	6046	11	10468	2	8758	2
6	LTH-22	13741	2	8766	12	6563	5	4218	9	8533	9	6662	8	3253	11	10194	2	10941	5	6045	2	6205	9	10386	3	7959	5
7	NMH-1265	12864	5	11147	6	7363	1	5538	1	8031	10	6586	10	3792	8	8198	10	8166	13	5631	6	6278	8	6838	12	7536	10
8	Geo Primum Diamond CHECKS	10612	11	11378	5	6444	7	4730	8	9655	6	5431	13	4982	3	8704	6	12197	3	5460	8	6922	5	9181	7	7975	4
9	PMH3	10969	9	10361	7	6711	4	5190	5	7193	11	6449	11	4175	7	7584	12	8444	12	5176	9	6784	6	9483	5	7377	11
10	BIO-9681	9502	13	7797	13	6444	8	5486	2	5987	13	7432	5	3131	12	8073	11	9719	10	4693	12	5994	12	8887	8	6929	12
11	Seedtech 2324	11392	8	10246	8	6311	10	4088	10	8745	7	6586	9	5748	2	8623	7	9951	7	4946	10	7959	1	9650	4	7854	8
12	HM11	9537	12	9074	10	6104	12	3860	12	6481	12	6769	7	2665	13	6328	13	12721	1	4068	13	5213	13	7583	11	6700	13
13	PMH1	11796	7	9459	9	6459	6	5485	3	8603	8	8231	3	3465	10	8811	5	9926	8	4922	11	7253	4	10655	1	7922	6
Location Mean		12095		10382		6442		4704		9001		7097		4225		8757		10360		5400		6664		8844		7831	
C.D. (5%)		2055		491		2200		825		1471		705		1140		571		932		577		1603		2182		1229	
C.V. (%)		10.06		2.8		20.22		10.39		9.67		5.88		15.97		3.86		5.33		6.33		14.24		14.61		-	
F (Prob)		0		0		0.794		0		0		0		0		0		0		0		0.052		0.002		-	
Plot Size		14.4		14.4		18		14.4		18		18		12		14		14.4		12		14.4		14.4		-	
AGRONOMY DATA																											
Sowing Date		14-07		15-07		19-07		22-07		10-07		15-07		19-07		29-07		28-07		25-06		2-07		24-06		-	
Harvest Date		8-11		10-11		-		27-11		3-11		31-10		26-11		18-12		13-11		18-10		18-11		17-11		-	
Irrigation Nos		8		9		-		-		5		-		-		7		-		-		10		2		-	
Fertilizer Applied N		150		150		-		120		200		200		120		150		120		-		150		150		-	
Fertilizer Applied P		75		75		-		60		60		60		60		75		60		-		75		75		-	
Fertilizer Applied K		37.5		75		-		40		50		50		40		40		40		-		75		37.5		-	

TABLE No. 7 (Cont..)

SI	GRAIN YIELD % SUPERIORITY OVER THE PMH3													GRAIN YIELD % SUPERIORITY OVER THE Seedtech 2324																	
	No	PEDIGREE	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLHMAND	NASI	PATA	VAGA	VRDC	MEAN	OV'L	MEAN	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLHMAND	NASI	PATA	VAGA	VRDC	MEAN	OV'L	MEAN	
1	DKC 9141 (IM8)	17.8	-	-	-	47.6	-	16.5	13.5	31.9	8	13.3	-	3.3	3.3	13.4	-	-	-	21.4	-	-	-	11.9	13	-	-	-	-	-	
2	HTMH 5108	52	10.6	-	1	48.9	27.4	11.4	31.3	46.4	15.6	-	-	19.7	19.7	46.3	11.9	-	28.3	22.4	24.7	-	15.5	24.2	21	-	-	-	12.4		
3	IM 8562	25.2	11.7	4	-	66.4	32.6	-	34.9	7.3	18.5	-	-	14.5	14.5	20.6	13	10.6	20.3	36.9	29.8	-	18.6	-	24	-	-	-	7.5		
4	RMH-972	-	12.3	-	-	37.5	5.3	2.3	13.7	21	10.4	10.2	-	7	7	-	13.5	1.2	-	13	3.1	-	-	2.7	15.5	-	-	-	0.5		
5	X35D601	15.1	25.5	2	-	47.4	34.4	49	30.7	16.6	12.9	-	10.4	18.7	18.7	10.8	26.9	8.5	22.6	21.2	31.6	8.2	15	-	18.1	-	8.5	11.5			
6	LTH-22	25.3	-	-	-	18.6	3.3	-	34.4	29.6	16.8	-	9.5	7.9	7.9	20.6	-	4	3.2	-	1.1	-	18.2	10	22.2	-	7.6	1.3			
7	NMH-1265	17.3	7.6	9.7	6.7	11.7	2.1	-	8.1	-	8.8	-	-	2.2	2.2	12.9	8.8	16.7	35.5	-	-	-	-	-	13.9	-	-	-			
8	GP Diamond	-	9.8	-	-	34.2	-	19.3	14.8	44.4	5.5	2	-	8.1	8.1	-	11	2.1	15.7	10.4	-	-	0.9	22.6	10.4	-	-	1.5			
CHECKS																															
9	PMH3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1	6.3	26.9	-	-	-	-	-	4.7	-	-	-			
10	BIO-9681	-	-	-	5.7	-	15.2	-	6.5	15.1	-	-	-	-	-	-	-	2.1	34.2	-	12.8	-	-	-	-	-	-	-			
11	Seedtech 2324	3.9	-	-	-	21.6	2.1	37.7	13.7	17.8	-	17.3	1.8	6.5	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-			
12	HM11	-	-	-	-	-	5	-	-	50.6	-	-	-	-	-	-	-	-	-	-	2.8	-	-	27.8	-	-	-	-			
13	PMH1	7.5	-	-	5.7	19.6	27.6	-	16.2	17.5	-	6.9	12.4	7.4	7.4	3.5	-	2.3	34.2	-	25	-	2.2	-	-	-	10.4	0.9			
GRAIN YIELD % SUPERIORITY OVER THE BIO-9681																															
SI	GRAIN YIELD % SUPERIORITY OVER THE BIO-9681													GRAIN YIELD % SUPERIORITY OVER THE HM11																	
	No	PEDIGREE	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLHMAND	NASI	PATA	VAGA	VRDC	MEAN	OV'L	MEAN	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLHMAND	NASI	PATA	VAGA	VRDC	MEAN	OV'L	MEAN	
1	DKC 9141 (IM8)	36	16.3	-	-	77.4	-	55.3	6.6	14.6	19.1	28.2	-	10	10	35.5	-	-	2.7	63.8	-	82.5	36	-	37.4	47.4	-	13.7			
2	HTMH 5108	75.4	47	-	-	78.9	10.5	48.6	23.3	27.2	27.5	1.7	-	27.4	27.4	74.8	26.3	2.9	35.9	65.2	21.3	74.6	57.3	-	47.1	17	9.9	31.8			
3	IM 8562	44.6	48.5	8.3	-	100	15.1	18.2	26.7	-	30.7	12.1	-	21.9	21.9	44	27.6	14.3	27.4	84.7	26.3	38.9	61.6	-	50.8	28.8	2.5	26			
4	RMH-972	14.4	49.2	-	-	65.1	-	36.4	6.8	5.1	21.8	24.8	6.7	14	14	14	28.2	4.6	-	52.5	0.3	60.3	36.2	-	40.5	43.4	25	17.9			
5	X35D601	32.9	66.8	6.2	-	77.1	16.6	98.6	22.8	1.3	24.5	0.9	17.8	26.4	26.4	32.4	43.3	12.1	29.9	63.6	28.1	133.4	56.6	-	43.6	16	38.1	30.7			
6	LTH-22	44.6	12.4	1.8	-	42.5	-	3.9	26.3	12.6	28.8	3.5	16.9	14.9	14.9	44.1	-	7.5	9.3	31.7	-	22.1	61.1	-	48.6	19	37	18.8			
7	NMH-1265	35.4	43	14.3	0.9	34.1	-	21.1	1.5	-	20	4.7	-	8.8	8.8	34.9	22.8	20.6	43.5	23.9	-	42.3	29.5	-	38.4	20.4	-	12.5			
8	GP Diamond	11.7	45.9	-	-	61.3	-	59.1	7.8	25.5	16.3	15.5	3.3	15.1	15.1	11.3	25.4	5.6	22.6	49	-	87	37.5	-	34.2	32.8	21.1	19			
CHECKS																															
9	PMH3	15.4	32.9	4.1	-	20.1	-	33.3	-	-	10.3	13.2	6.7	6.5	6.5	15	14.2	10	34.5	11	-	56.7	19.8	-	27.2	30.1	25.1	10.1			
10	BIO-9681	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	42.1	-	9.8	17.5	27.6	-	15.4	15	17.2	3.4			
11	Seedtech 2324	19.9	31.4	-	-	46.1	-	83.6	6.8	2.4	5.4	32.8	8.6	13.3	13.3	19.5	12.9	3.4	5.9	34.9	-	115.7	36.3	-	21.6	52.7	27.3	17.2			
12	HM11	0.4	16.4	-	-	8.3	-	-	-	30.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
13	PMH1	24.1	21.3	0.2	-	43.7	10.8	10.7	9.1	2.1	4.9	21	19.9	14.3	14.3	23.7	4.2	5.8	42.1	32.7	21.6	30	39.2	-	21	39.1	40.5	18.2			

TABLE No. 7 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE PMH1														
SI													ZN 4	
No	PEDIGREE	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	MEAN
1	DKC 9141 (IM8539)	9.6	-	-	-	23.4	-	40.4	-	12.2	13.5	5.9	-	-
2	HTMH 5108	41.3	21.2	-	-	24.5	-	34.3	13	24.5	21.5	-	-	11.5
3	IM 8562	16.4	22.4	8	-	39.2	3.9	6.8	16.1	-	24.6	-	-	6.6
4	RMH-972	-	23	-	-	14.9	-	23.3	-	3	16.1	3.1	-	-
5	X35D601	7	37.5	6	-	23.2	5.3	79.5	12.5	-	18.7	-	-	10.5
6	LTH-22	16.5	-	1.6	-	-	-	-	15.7	10.2	22.8	-	-	0.5
7	NMH-1265	9	17.8	14	1	-	-	9.4	-	-	14.4	-	-	-
8	Geo Primium Diamond	-	20.3	-	-	12.2	-	43.8	-	22.9	10.9	-	-	0.7
CHECKS														
9	PMH3	-	9.5	3.9	-	-	-	20.5	-	-	5.2	-	-	-
10	BIO-9681	-	-	-	0	-	-	-	-	-	-	-	-	-
11	Seedtech 2324	-	8.3	-	-	1.7	-	65.9	-	0.3	0.5	9.7	-	-
12	HM11	-	-	-	-	-	-	-	-	28.2	-	-	-	-
13	PMH1	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE No. 7 (Cont..)

S.No.	PEDIGREE	GRAIN SHELLING %											MOISTURE % AT HARVEST												
		ARBH	COIM	DHUL	HYDE	KARI	KOLH	MAND	NASI	PARB	VAGA	VRDC	ZN 4 Mean	ARBH	COIM	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	ZN 4 Mean
1	DKC 9141 (IM8)	79.8	80.9	73.4	77.8	79.7	76.1	80.3	68.0	74.0	77.5	82.4	77.3	28.2	28.8	11.8	23.6	12.6	14.0	15.7	16.0	28.5	21.3	12.7	19.4
2	HTMH 5108	81.4	80.6	78.3	75.8	76.3	74.8	82.0	67.3	57.0	76.4	84.6	75.9	28.7	23.2	13.0	26.1	14.2	15.9	16.9	10.3	27.4	21.2	13.0	19.1
3	IM 8562	80.5	79.1	73.4	78.6	79.2	73.9	82.2	73.2	76.0	77.4	87.5	78.3	29.4	27.6	11.9	25.9	11.5	18.8	15.7	13.1	30.3	22.9	12.5	19.9
4	RMH-972	84.2	81.0	76.5	82.8	79.1	80.1	81.4	74.2	70.0	76.6	88.4	79.5	26.4	23.8	11.7	24.4	16.1	16.4	17.1	14.5	29.0	22.5	12.5	19.5
5	X35D601	84.8	82.0	77.5	77.3	80.0	82.8	82.0	72.7	77.5	77.4	89.7	80.3	28.8	22.6	11.2	23.2	14.3	17.2	16.2	13.7	28.5	19.7	12.3	18.9
6	LTH-22	83.5	78.7	79.1	77.6	80.0	71.3	82.6	70.8	66.0	78.2	84.8	77.5	26.6	22.9	12.9	24.5	16.0	16.4	16.1	13.3	27.9	20.4	12.3	19.0
7	NMH-1265	83.2	76.4	79.2	78.1	78.3	81.8	81.4	72.7	71.0	77.7	85.5	78.7	25.9	21.5	11.6	23.3	14.2	16.4	15.0	12.8	27.2	21.1	13.3	18.4
8	GP Diamond	80.4	78.8	76.8	74.6	77.9	83.9	82.0	74.4	71.0	79.0	85.2	78.5	28.1	24.2	11.8	23.5	14.6	17.8	16.7	14.5	27.2	21.8	12.2	19.3
9	PMH3	82.9	80.9	79.4	76.3	77.3	74.7	81.8	70.8	46.5	78.0	87.5	76.0	28.0	20.2	12.1	22.7	13.9	17.7	16.0	15.0	28.5	21.6	12.1	18.9
10	BIO-9681	83.7	78.8	81.1	78.4	78.6	78.1	81.2	75.4	75.0	77.3	86.7	79.5	21.4	18.9	11.5	20.6	13.3	15.8	15.7	16.8	25.2	18.9	12.5	17.3
11	Seedtech 2324	82.0	81.6	78.7	76.0	78.4	90.1	81.5	65.9	71.0	77.7	87.1	79.1	26.2	25.6	14.7	24.7	13.8	16.8	15.9	15.8	27.8	22.1	12.3	19.6
12	HM11	79.6	78.4	75.8	77.9	76.5	67.1	82.3	71.7	62.5	76.9	84.5	75.7	29.5	22.1	11.7	21.7	13.1	16.9	16.6	11.6	29.1	20.5	11.9	18.6
13	PMH1	82.1	76.9	78.4	74.3	74.3	81.0	81.8	69.7	81.5	78.8	85.0	78.5	26.3	20.7	11.9	23.2	13.0	16.6	15.8	15.0	28.1	21.7	12.7	18.6
	Loc. Mean	82.1	79.5	77.5	77.4	78.1	78.1	81.7	71.3	69.2	77.6	86.1	78.1	27.2	23.2	12.1	23.6	13.9	16.6	16.1	14.0	28.1	21.2	12.5	19.0
	C.D. (5%)	0.90	0.67	3.35	4.92	2.21	0.51	1.09	2.20	12.15	1.29	4.35	3.07	2.05	1.13	2.12	2.13	2.12	1.79	0.54	2.30	2.25	1.81	1.09	1.21
	C.V. (%)	0.65	0.50	2.57	3.77	1.68	0.39	0.79	1.83	10.43	0.98	3.00	4.65	4.49	2.88	10.39	5.36	9.07	6.40	1.98	9.74	4.76	5.08	5.17	7.55
	F (Prob)	0.00	0.00	0.00	0.15	0.00	0.00	0.03	0.00	0.00	0.01	0.12	0.05	0.00	0.00	0.17	0.00	0.01	0.00	0.00	0.00	0.03	0.01	0.42	0.01

TABLE No. 7 (Cont..)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)												DAYS TO 50% POLLEN SHED													
		ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	Mean	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	Mean
		ZN 4												ZN 4													
1	DKC 9141 (IM8539)	77.5	66.2	41.7	81.3	53.5	58.3	51.9	61.0	82.4	34.4	58.6	62.3	60.8	61.7	54.7	62.0	56.3	59.0	53.0	62.0	59.0	61.3	54.7	53.3	62.0	58.3
2	HTMH 5108	84.5	66.4	43.0	82.2	53.7	59.6	53.3	63.6	81.3	35.3	53.0	54.2	60.8	58.7	52.7	60.7	53.3	55.7	51.0	61.0	57.0	60.3	50.3	49.7	59.5	55.8
3	IM 8562	64.8	66.4	37.2	81.0	56.1	55.7	50.0	61.7	80.1	34.4	53.7	55.6	58.1	63.0	56.7	62.7	55.7	61.0	56.7	69.0	59.0	61.7	58.0	54.0	64.0	60.1
4	RMH-972	61.3	66.7	33.3	80.6	55.6	44.4	51.9	61.2	80.6	32.8	46.5	48.1	55.3	60.0	56.0	63.7	54.7	59.7	53.0	63.0	58.7	61.7	54.3	53.3	62.0	58.3
5	X35D601	72.7	66.7	40.4	81.9	54.1	55.9	52.2	61.4	79.9	34.7	55.3	67.1	60.2	61.0	55.7	63.7	55.7	59.7	53.0	64.0	58.3	61.7	54.7	54.0	60.5	58.5
6	LTH-22	72.0	66.0	40.9	82.4	52.0	44.6	51.9	62.6	78.9	35.3	56.3	64.8	59.0	58.3	54.0	61.0	53.7	56.3	52.0	63.0	58.3	61.3	51.3	50.7	61.0	56.8
7	NMH-1265	71.8	66.0	40.2	82.2	52.0	47.6	53.3	62.1	80.8	34.7	56.9	60.4	59.0	58.7	53.7	62.3	55.7	57.7	52.7	61.0	58.0	59.7	52.3	53.0	61.5	57.2
8	Geo Primum Diamond CHECKS	68.8	66.7	40.6	81.3	50.9	47.2	53.1	63.1	80.8	35.3	53.0	60.2	58.4	58.7	54.3	60.3	54.7	55.7	51.0	56.0	55.7	60.0	52.0	51.0	60.0	55.8
9	PMH3	65.3	66.7	41.5	82.4	52.6	57.0	53.3	61.2	81.9	33.9	56.5	56.7	59.1	60.0	54.0	61.3	55.0	59.3	53.3	61.0	57.3	61.7	53.7	52.7	62.0	57.6
10	BIO-9681	66.4	66.4	35.7	82.6	50.0	42.6	51.7	65.5	81.9	33.1	55.8	55.6	57.3	56.7	52.0	58.3	49.0	56.0	51.0	59.0	55.7	59.7	49.3	44.7	58.5	54.2
11	Seedtech 2324	75.5	66.2	42.0	81.5	51.5	47.4	53.3	60.5	80.8	34.2	56.7	61.8	59.3	58.7	54.0	59.7	53.7	57.7	53.0	61.0	57.7	61.0	52.0	52.0	61.0	56.8
12	HM11	64.8	66.0	35.9	81.9	51.9	62.8	51.9	68.8	81.0	33.1	49.3	51.2	58.2	60.0	54.0	61.0	53.7	59.0	52.3	69.0	54.7	60.3	52.0	51.0	60.5	57.3
13	PMH1	72.9	66.7	44.1	81.9	50.9	63.7	50.6	65.2	79.9	35.0	57.4	59.7	60.7	58.0	52.0	60.3	56.7	58.3	52.3	62.0	57.0	61.0	52.3	51.7	61.0	56.9
	Loc. Mean	70.6	66.4	39.7	81.8	52.7	52.8	52.2	62.9	80.8	34.3	54.5	58.3	58.9	59.5	54.1	61.3	54.4	58.1	52.6	62.4	57.4	60.9	52.8	51.6	61.0	57.2
	C.D. (5%)	8.58	0.41	7.65	1.64	0.92	1.77	3.16	3.63	2.90	2.50	7.87	14.54	2.76	2.16	0.60	1.90	0.56	1.51	0.62	-	2.35	1.09	1.36	1.62	1.59	1.03
	C.V. (%)	7.21	0.37	11.43	1.19	1.04	1.99	3.60	3.43	2.13	4.32	8.56	14.80	5.80	2.15	0.66	1.84	0.61	1.55	0.70	-	2.43	1.06	1.52	1.86	1.55	2.24
	F (Prob)	0.00	0.00	0.20	0.33	0.00	0.00	0.49	0.00	0.52	0.43	0.15	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00

TABLE No. 7 (Cont..)

S.No. PEDIGREE	DAYS TO 50% SILKING													DAYS TO 75% DRY HUSK										
														ZN 4										
	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	Mean	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	VAGA	VRDC	Mean
1 DKC 9141 (IM8539)	62.7	57.7	64.7	58.3	62.3	56.0	63.0	61.3	62.7	56.7	55.7	64.0	60.4	98.7	99.3	77.0	116.7	96.0	106.0	98.0	110.7	99.3	114.0	101.6
2 HTMH 5108	59.0	55.3	62.3	55.7	57.7	53.0	62.0	59.0	62.0	55.7	52.7	61.0	57.9	96.0	100.3	84.3	115.0	88.0	105.0	97.3	109.3	95.3	115.0	100.6
3 IM 8562	63.7	58.7	65.0	58.7	63.7	59.0	70.0	62.0	62.7	60.0	57.0	66.0	62.2	102.0	102.3	86.3	121.3	99.0	114.0	100.0	110.3	100.0	116.5	105.2
4 RMH-972	62.0	58.0	65.7	57.0	62.0	55.7	64.0	61.0	62.7	56.3	55.7	63.5	60.3	100.0	99.0	86.3	102.7	95.7	107.0	96.0	109.7	100.7	117.0	101.4
5 X35D601	62.7	58.7	65.7	58.0	62.7	56.0	65.0	60.3	62.7	56.7	56.7	64.5	60.8	102.0	99.3	85.7	114.7	96.0	108.0	99.3	111.3	101.3	114.0	103.2
6 LTH-22	60.7	57.0	63.7	56.7	59.7	54.3	64.0	60.0	62.3	53.3	53.3	63.0	59.0	98.0	97.0	84.3	111.0	90.0	107.0	100.0	111.7	97.3	115.5	101.2
7 NMH-1265	58.3	56.0	63.7	58.0	60.0	54.0	62.0	59.7	61.3	54.3	55.0	62.0	58.7	96.7	98.0	85.7	109.7	90.7	105.0	97.3	108.0	98.3	108.0	99.7
8 Geo Primum Diamond CHECKS	59.3	56.3	62.7	56.7	58.0	53.3	57.0	58.3	61.3	54.0	53.0	61.5	57.6	98.0	102.0	85.0	113.3	88.3	99.3	94.7	105.7	96.0	116.5	99.9
9 PMH3	61.7	57.0	64.7	57.3	63.0	56.3	62.0	60.3	62.7	55.7	55.3	63.5	60.0	98.0	97.3	86.3	93.7	96.3	105.0	95.3	108.3	99.0	111.5	99.1
10 BIO-9681	57.7	54.0	60.0	51.3	57.3	53.7	60.0	57.3	61.3	51.3	48.7	59.5	56.0	95.0	94.3	81.7	93.0	87.0	102.0	96.7	106.0	89.3	108.0	95.3
11 Seedtech 2324	59.0	57.0	61.7	56.7	59.7	54.7	62.0	59.0	62.7	54.0	54.3	62.5	58.6	98.0	98.3	85.7	123.0	93.0	105.0	96.7	109.3	98.0	112.0	101.9
12 HM11	62.7	57.0	63.0	56.3	62.0	54.7	70.0	57.3	61.3	56.0	53.3	62.5	59.7	98.0	101.3	85.7	95.0	93.0	114.0	96.7	104.7	97.0	114.5	100.0
13 PMH1	59.3	54.0	62.0	59.3	60.7	54.0	63.0	59.0	62.3	54.3	54.7	62.0	58.7	95.0	96.3	87.7	112.3	90.7	106.0	96.0	104.3	98.3	111.5	99.8
Loc. Mean	60.7	56.7	63.4	56.9	60.7	55.0	63.4	59.6	62.2	55.3	54.3	62.7	59.2	98.1	98.8	84.7	109.3	92.6	106.4	97.2	108.4	97.7	113.4	100.7
C.D. (5%)	1.73	0.56	2.00	1.40	1.52	1.11	-	2.75	1.17	2.85	1.94	1.17	1.00	0.59	3.87	7.91	4.36	3.63	0.27	3.54	1.25	3.49	2.45	3.31
C.V. (%)	1.69	0.59	1.87	1.46	1.49	1.20	-	2.74	1.12	3.07	2.12	1.11	2.10	0.36	2.32	5.54	2.37	2.33	0.15	2.16	0.69	2.12	1.28	3.71
F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.01	0.47	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00

TABLE No. 7 (Cont.)

S.No. PEDIGREE	PLANT HEIGHT(cm)													EAR HEIGHT(cm)													
	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	ZN 4 Mean	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	ZN 4 Mean	
1 DKC 9141	231.5	194.7	273.7	261.0	262.3	238.3	203.3	247.7	280.9	248.3	183.1	186.8	234.3	111.0	99.7	113.7	107.2	105.7	118.3	78.3	127.7	113.0	108.0	80.2	72.9	105.2	
2 HTMH 5108	195.5	183.9	217.3	226.0	217.7	188.3	156.7	214.3	238.5	178.3	119.7	169.8	192.2	110.5	82.7	110.3	99.4	91.3	100.0	65.0	112.0	109.0	85.3	47.9	70.2	92.6	
3 IM 8562	244.5	201.0	262.3	284.0	267.7	238.3	196.7	247.0	272.6	248.0	156.5	196.7	234.6	136.5	109.3	129.0	113.1	120.7	121.7	89.0	134.3	138.3	120.3	77.2	93.9	117.7	
4 RMH-972	199.5	188.9	228.0	232.0	235.0	198.3	150.0	218.0	245.8	214.7	166.3	181.2	204.8	107.5	93.0	116.0	91.4	99.7	103.3	61.7	110.7	109.3	103.7	78.7	79.9	99.4	
5 X35D601	200.5	190.3	227.3	262.0	234.0	193.3	166.7	229.7	251.5	225.0	150.7	174.7	208.8	115.5	103.3	125.7	130.9	111.7	101.7	83.3	114.7	122.3	117.3	74.2	85.2	109.3	
6 LTH-22	232.5	193.0	245.0	274.3	272.3	220.0	183.3	235.7	263.4	239.0	170.0	197.8	227.2	113.5	102.9	114.7	120.4	103.0	105.0	73.3	120.7	115.0	101.7	73.9	70.6	103.7	
7 NMH-1265	181.5	188.0	217.0	250.3	233.3	190.0	183.3	221.7	229.7	209.3	143.7	171.6	201.6	110.5	92.5	106.0	98.3	103.0	115.0	86.7	112.3	116.7	104.3	63.7	71.7	99.5	
8 GP Diamond	191.5	171.9	229.3	244.7	239.3	186.7	163.3	211.7	251.9	204.7	146.3	177.8	201.6	110.5	96.1	125.0	85.3	105.3	95.0	85.0	106.0	115.3	98.3	69.2	81.3	98.9	
CHECKS																											
9 PMH3	214.0	184.1	228.7	272.7	239.0	216.7	176.7	232.0	273.3	231.7	167.9	179.7	218.0	129.0	106.7	129.0	128.2	106.7	128.3	86.7	122.7	127.7	119.3	77.5	90.2	115.0	
10 BIO-9681	195.0	188.2	221.3	252.3	227.7	200.0	165.0	235.0	248.7	210.7	154.0	179.7	206.5	93.5	94.1	111.7	79.6	73.7	91.7	55.0	112.3	103.0	90.7	56.2	67.2	88.5	
11 Seedtech 2324	185.0	184.3	216.3	214.0	220.3	218.3	163.3	220.7	230.2	201.3	142.1	167.3	196.9	112.0	106.9	127.7	104.3	104.0	110.0	81.7	114.7	111.3	105.0	75.5	82.2	104.9	
12 HM11	208.0	168.7	239.3	252.0	224.7	181.7	161.7	227.7	245.0	211.7	161.5	173.4	204.6	113.0	95.7	127.3	87.1	91.7	103.3	76.7	115.0	112.3	94.0	69.9	67.2	97.9	
13 PMH1	227.0	202.7	235.0	249.0	243.0	241.7	155.0	238.3	246.2	231.3	172.3	195.5	219.8	136.5	111.0	126.7	105.5	115.0	138.3	68.3	130.3	130.3	121.7	86.9	94.6	117.9	
Loc. Mean	208.2	187.7	233.9	251.9	239.7	208.6	171.2	229.2	252.1	219.5	156.5	180.9	211.6	115.3	99.5	120.2	103.9	102.4	110.1	76.2	117.9	117.2	105.4	71.6	79.0	103.9	
C.D. (5%)	9.20	8.17	21.36	3.20	17.03	11.92	45.37	13.65	13.79	14.55	23.95	13.64	8.06	6.30	6.91	13.00	3.30	11.37	8.24	26.47	12.89	13.44	6.87	12.06	14.34	5.69	
C.V. (%)	2.62	2.58	5.42	0.75	4.22	3.39	15.73	3.54	3.25	3.93	9.08	4.47	4.72	3.24	4.12	6.42	1.89	6.59	4.44	20.61	6.49	6.81	3.87	10.00	10.77	6.49	
F (Prob)	0.00	0.00	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	0.22	0.00	0.00	0.00	0.00	0.00	0.00	

Locations Rejected due to High C.V.(i.e.> 20%) : KOLHAPUR 20.6%

TABLE No. 8: PERFORMANCE OF LATE MATURITY EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSAWARA, BHILODA, DAHOD, GODHRA, JAGDALPUR, JHABUA, KOTA, RAIPUR, UDAIPUR, UJJAIN IN AVT1 TRIAL No. 65Z5 (AVT1-L-Z5) DURING KHARIF (2014)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																							
		AMBI	R	BANS	R	BHIL	R	DAHO	R	GODH	R	JAGD	R	JHAB	R	KOTA	R	RAIP	R	UDAI	R	UJJA	R	MEAN	ZN 5
1	CP.999	6584	10	6309	7	6156	3	5300	4	5128	5	5291	10	6853	2	2654	6	6206	5	7046	3	5381	7	5719	7
2	DAS-MH-105	6053	12	5921	12	6375	2	6450	1	4860	7	4884	13	6152	9	4253	1	5676	9	7112	1	5522	5	5751	6
3	DKC 9133(IM9133)	8026	3	6186	8	5273	9	6398	2	6083	1	6416	3	6797	5	2987	4	6109	7	7056	2	5552	4	6080	1
4	DKC 9141 (IM8539)	5777	13	6567	4	5408	7	4149	10	5229	3	4752	14	6824	3	2469	7	6417	2	6528	14	5052	10	5379	9
5	HTMH 5202	7834	5	6028	10	5343	8	4681	8	5509	2	6112	5	7851	1	2326	9	6629	1	5767	15	6017	2	5827	3
6	IM 8556	7304	6	6716	2	6637	1	4978	5	5174	4	5860	6	6246	8	2361	8	6320	3	6987	7	4820	12	5764	4
7	JANA HIT	7887	4	6464	5	3888	14	3231	15	3267	14	6120	4	6488	6	2196	10	5558	10	6619	12	5464	6	5198	10
8	PRO-392	7084	8	4989	15	6032	4	4798	7	4673	8	5374	9	6066	11	3151	3	5776	8	7007	6	6720	1	5606	8
9	SUPER GA-105	6364	11	5990	11	4369	12	3327	14	3967	11	4958	11	5305	15	1505	16	5228	12	5569	16	5302	8	4717	14
10	X35D601	8084	1	7256	1	5989	5	5518	3	4957	6	6459	2	6085	10	2768	5	6262	4	6680	11	5081	9	5922	2
11	SIRI 4527	8055	2	6070	9	5910	6	4812	6	4401	9	6652	1	5615	13	3689	2	5143	13	7029	5	6016	3	5763	5
	CHECKS																								
12	PMH 3	5113	16	6689	3	4612	10	4072	11	4213	10	4499	16	6055	12	2011	12	4780	16	6694	10	4385	16	4829	13
13	BIO-9681	5638	14	6311	6	2931	15	3625	13	2866	15	4501	15	6421	7	2024	11	5557	11	6568	13	4426	15	4624	15
14	Seedtech 2324	7111	7	5408	14	4410	11	3723	12	3910	12	5526	8	5322	14	1971	13	4940	15	7030	4	5046	11	4945	12
15	HM11	5360	15	4354	16	2758	16	2682	16	2853	16	4915	12	4998	16	1557	14	5024	14	6936	8	4611	14	4186	16
16	PMH1	7083	9	5489	13	4089	13	4211	9	3379	13	5778	7	6808	4	1528	15	6156	6	6834	9	4644	13	5091	11
	Location Mean	6835		6047		5011		4497		4404		5506		6243		2466		5736		6716		5252		5338	
	C.D. (5%)	1000		757		1786		993		339		700		377		372		1633		1106		192		841	
	C.V. (%)	8.76		7.5		21.35		13.22		4.61		7.61		3.61		9.02		17.05		9.86		2.18		-	
	F (Prob)	0		0		0.001		0		0		0		0		0		0.414		0.174		0		-	
	Plot Size	12		9.6		12		9.6		14.4		12		10.5		9.6		12		9.6		12		-	
	AGRONOMY DATA																								
	Sowing Date	7-07		13-07		24-06		9-07		15-07		2-07		10-07		23-07		7-04		7-03		19-07		-	
	Harvest Date	-		18-10		-		14-10		4-11		-		4-11		4-11		17-10		10-11		8-11		-	
	Irrigation Nos	-		-		-		1		-		-		-		2		-		1		-		-	
	Fertilizer Applied N	120		150		-		100		100		120		100		90		100		120		120		-	
	Fertilizer Applied P	60		80		-		50		50		60		60		30		60		90		80		-	
	Fertilizer Applied K	40		-		-		-		-		40		40		-		40		-		60		-	

TABLE No. 8 (Cont..)

SI	GRAIN YIELD % SUPERIORITY OVER THE PMH 3												ZN 5	GRAIN YIELD % SUPERIORITY OVER THE BIO-9681												ZN 5
No PEDIGREE	AMBI	BANS	BHIL	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	MEAN	AMBI	BANS	BHIL	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	MEAN		
1 CP.999	28.8	-	33.5	30.1	21.7	17.6	13.2	32	29.8	5.3	22.7	18.4	16.8	-	110.1	46.2	78.9	17.5	6.7	31.1	11.7	7.3	21.6	23.7		
2 DAS-MH-105	18.4	-	38.2	58.4	15.4	8.6	1.6	111.5	18.7	6.2	25.9	19.1	7.4	-	117.5	77.9	69.6	8.5	-	110.1	2.1	8.3	24.8	24.4		
3 DKC 9133(IM9133)	57	-	14.3	57.1	44.4	42.6	12.3	48.5	27.8	5.4	26.6	25.9	42.4	-	79.9	76.5	112.2	42.6	5.8	47.6	9.9	7.4	25.5	31.5		
4 DKC 9141 (IM8539)	13	-	17.3	1.9	24.1	5.6	12.7	22.8	34.2	-	15.2	11.4	2.5	4.1	84.5	14.5	82.4	5.6	6.3	22	15.5	-	14.2	16.3		
5 HTMH 5202	53.2	-	15.9	14.9	30.8	35.9	29.7	15.7	38.7	-	37.2	20.7	39	-	82.3	29.1	92.2	35.8	22.3	15	19.3	-	36	26		
6 IM 8556	42.9	0.4	43.9	22.2	22.8	30.3	3.2	17.4	32.2	4.4	9.9	19.4	29.5	6.4	126.5	37.3	80.5	30.2	-	16.7	13.7	6.4	8.9	24.6		
7 JANA HIT	54.3	-	-	-	-	36	7.2	9.2	16.3	-	24.6	7.6	39.9	2.4	32.7	-	14	36	1	8.5	0	0.8	23.5	12.4		
8 PRO-392	38.6	-	30.8	17.8	10.9	19.5	0.2	56.7	20.8	4.7	53.2	16.1	25.6	-	105.8	32.4	63	19.4	-	55.7	4	6.7	51.8	21.2		
9 SUPER GA-105	24.5	-	-	-	-	10.2	-	-	9.4	-	20.9	-	12.9	-	49.1	-	38.4	10.2	-	-	-	-	19.8	2		
10 X35D601	58.1	8.5	29.9	35.5	17.6	43.6	0.5	37.7	31	-	15.9	22.6	43.4	15	104.4	52.2	72.9	43.5	-	36.8	12.7	1.7	14.8	28.1		
11 SIRI 4527	57.6	-	28.2	18.2	4.5	47.9	-	83.4	7.6	5	37.2	19.3	42.9	-	101.7	32.7	53.6	47.8	-	82.3	-	7	35.9	24.6		
CHECKS																										
12 PMH 3	-	-	-	-	-	-	-	-	-	-	-	-	-	6	57.4	12.3	47	-	-	-	-	1.9	-	4.4		
13 BIO-9681	10.3	-	-	-	-	0.1	6.1	0.6	16.2	-	0.9	-	-	-	-	-	-	-	-	-	-	-	-	-		
14 Seedtech 2324	39.1	-	-	-	-	22.8	-	-	3.3	5	15.1	2.4	26.1	-	50.5	2.7	36.4	22.8	-	-	-	7	14	6.9		
15 HM11	4.8	-	-	-	-	9.3	-	-	5.1	3.6	5.2	-	-	-	-	-	-	9.2	-	-	-	5.6	4.2	-		
16 PMH1	38.5	-	-	3.4	-	28.4	12.4	-	28.8	2.1	5.9	5.4	25.6	-	39.5	16.2	17.9	28.4	6	-	10.8	4.1	4.9	10.1		
SI	GRAIN												ZN 5	GRAIN YIELD % SUPERIORITY OVER THE HM11												ZN 5
No PEDIGREE	AMBI	BANS	BHIL	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	MEAN	AMBI	BANS	BHIL	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	MEAN		
1 CP.999	-	16.7	39.6	42.4	31.2	-	28.8	34.7	25.6	0.2	6.6	15.6	22.8	44.9	123.2	97.6	79.8	7.6	37.1	70.4	23.5	1.6	16.7	36.6		
2 DAS-MH-105	-	9.5	44.5	73.2	24.3	-	15.6	115.8	14.9	1.2	9.4	16.3	12.9	36	131.1	140.5	70.4	-	23.1	173.1	13	2.5	19.7	37.4		
3 DKC 9133(IM9133)	12.9	14.4	19.6	71.8	55.6	16.1	27.7	51.6	23.7	0.4	10	23	49.7	42.1	91.2	138.6	113.2	30.5	36	91.8	21.6	1.7	20.4	45.2		
4 DKC 9141 (IM8539)	-	21.4	22.6	11.4	33.7	-	28.2	25.3	29.9	-	0.1	8.8	7.8	50.8	96.1	54.7	83.3	-	36.5	58.6	27.7	-	9.6	28.5		
5 HTMH 5202	10.2	11.5	21.2	25.7	40.9	10.6	47.5	18.1	34.2	-	19.2	17.8	46.2	38.4	93.7	74.5	93.1	24.3	57.1	49.4	32	-	30.5	39.2		
6 IM 8556	2.7	24.2	50.5	33.7	32.3	6	17.4	19.8	27.9	-	-	16.6	36.3	54.2	140.6	85.6	81.4	19.2	25	51.6	25.8	0.7	4.5	37.7		
7 JANA HIT	10.9	19.5	-	-	-	10.7	21.9	11.4	12.5	-	8.3	5.1	47.1	48.4	41	20.5	14.5	24.5	29.8	41	10.6	-	18.5	24.2		
8 PRO-392	-	-	36.8	28.9	19.5	-	14	59.9	16.9	-	33.2	13.4	32.2	14.6	118.7	78.9	63.8	9.3	21.4	102.3	15	1	45.7	33.9		
9 SUPER GA-105	-	10.8	-	-	1.5	-	-	-	5.8	-	5.1	-	18.7	37.6	58.4	24	39.1	0.9	6.1	-	4.1	-	15	12.7		
10 X35D601	13.7	34.2	35.8	48.2	26.8	16.9	14.3	40.5	26.8	-	0.7	19.7	50.8	66.6	117.1	105.7	73.7	31.4	21.7	77.7	24.7	-	10.2	41.5		
11 SIRI 4527	13.3	12.2	34	29.2	12.6	20.4	5.5	87.2	4.1	-	19.2	16.5	50.3	39.4	114.3	79.4	54.3	35.3	12.4	136.9	2.4	1.3	30.5	37.7		
CHECKS																										
12 PMH 3	-	23.7	4.6	9.4	7.8	-	13.8	2.1	-	-	-	-	-	53.6	67.2	51.8	47.7	-	21.1	29.1	-	-	-	15.4		
13 BIO-9681	-	16.7	-	-	-	-	20.7	2.7	12.5	-	-	-	5.2	44.9	6.2	35.2	0.5	-	28.5	29.9	10.6	-	-	10.5		
14 Seedtech 2324	-	-	-	-	-	-	-	-	-	-	-	-	32.7	24.2	59.9	38.8	37.1	12.4	6.5	26.5	-	1.4	9.4	18.1		
15 HM11	-	-	-	-	-	-	-	-	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
16 PMH1	-	1.5	-	13.1	-	4.5	27.9	-	24.6	-	-	2.9	32.2	26.1	48.2	57	18.4	17.5	36.2	-	22.5	-	0.7	21.6		

TABLE No. 8 (Cont..)

S.No. PEDIGREE	GRAIN SHELLING %											MOISTURE % AT HARVEST							
	AMBI	BANS	BHIL	DAHO	GODH	JAGD	JHAB	RAIP	UDAI	UJJA	Mean	BANS	BHIL	DAHO	GODH	JHAB	KOTA	UDAI	Mean
1 CP.999	80.6	73.9	84.3	85.5	90.1	76.5	72.8	83.9	83.4	84.8	81.6	18.1	18.8	27.1	14.0	25.6	17.2	22.8	20.5
2 DAS-MH-105	78.1	74.3	81.3	86.5	91.5	76.2	74.0	82.4	83.1	85.2	81.3	17.7	19.4	24.2	15.3	25.2	17.9	23.3	20.4
3 DKC 9133(IM9133)	80.0	74.4	80.0	85.0	91.0	77.0	77.1	83.2	83.4	82.3	81.3	17.7	18.5	26.0	15.1	25.3	19.1	23.0	20.7
4 DKC 9141 (IM8539)	81.2	74.6	81.7	78.5	89.0	77.4	73.9	85.3	82.4	81.4	80.5	18.3	17.5	24.7	14.1	25.2	16.1	23.6	19.9
5 HTMH 5202	80.6	74.7	86.0	85.0	91.8	75.3	77.1	86.7	82.8	85.1	82.5	18.4	17.7	24.3	15.2	25.5	17.2	22.8	20.1
6 IM 8556	80.4	73.0	85.3	85.2	79.6	76.7	75.2	85.9	83.3	84.4	80.9	17.5	19.4	28.1	16.2	26.0	17.0	23.1	21.0
7 JANAHIT	80.0	75.6	83.0	83.9	81.7	75.0	77.1	83.1	83.4	85.6	80.8	18.5	19.5	24.5	14.4	25.4	17.0	23.2	20.4
8 PRO-392	82.3	71.0	84.7	85.0	84.1	76.5	79.9	85.5	83.5	84.5	81.7	16.9	18.1	26.4	15.4	25.3	15.1	23.4	20.1
9 SUPER GA-105	80.7	76.3	88.0	85.2	87.5	77.6	79.8	85.7	83.5	84.6	82.9	17.4	17.8	27.1	13.3	26.0	15.5	23.3	20.0
10 X35D601	78.3	75.5	85.7	85.6	89.1	76.5	78.6	87.7	83.3	82.1	82.2	18.3	19.5	27.5	15.9	25.5	16.6	22.7	20.8
11 SIRI 4527	80.1	72.5	83.7	84.5	84.9	77.6	71.8	80.3	83.3	88.3	80.7	17.7	19.2	22.5	16.5	25.4	17.3	23.0	20.2
CHECKS																			
12 PMH 3	80.7	72.6	81.7	82.2	89.5	76.0	71.5	84.8	83.5	82.7	80.5	18.1	19.6	24.7	14.5	25.3	15.7	23.0	20.1
13 BIO-9681	78.1	76.0	82.0	84.0	90.3	74.1	81.5	85.2	83.3	86.1	82.0	18.2	17.9	26.2	16.2	25.5	15.8	22.8	20.3
14 Seedtech 2324	79.1	74.2	86.3	83.2	87.5	75.7	75.4	82.6	83.3	79.8	80.7	18.9	18.2	25.0	13.2	25.4	16.3	23.2	20.0
15 HM11	77.8	72.6	80.0	77.6	90.1	76.4	76.8	80.6	83.2	84.1	79.9	17.2	18.2	26.9	14.5	25.5	14.9	22.7	20.0
16 PMH1	78.2	75.2	69.3	85.9	89.1	76.5	79.4	83.6	83.4	82.2	80.3	17.8	19.7	27.3	13.5	25.5	16.5	23.2	20.5
Loc. Mean	79.8	74.1	82.7	83.9	87.9	76.3	76.4	84.2	83.2	83.9	81.2	17.9	18.7	25.8	14.8	25.5	16.6	23.1	20.3
C.D. (5%)	1.50	2.15	8.05	3.06	4.66	1.94	3.10	3.69	0.49	0.51	2.14	0.74	1.54	1.69	0.41	0.42	0.54	0.48	0.97
C.V. (%)	1.13	1.74	5.84	2.19	3.18	1.53	2.43	2.63	0.35	0.37	2.98	2.47	4.96	3.93	1.68	0.99	1.96	1.25	4.48
F (Prob)	0.00	0.00	0.02	0.00	0.00	0.05	0.00	0.01	0.00	0.00	0.26	0.00	0.04	0.00	0.00	0.01	0.00	0.01	0.58

TABLE No. 8 (Cont..)

DAYS TO 50% POLLEN SHED													ZN 5
S.No.	PEDIGREE	AMBI	BANS	BHIL	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	Mean
1	CP.999	56.0	53.0	57.3	53.7	53.0	58.3	52.0	48.3	55.7	52.7	56.0	54.2
2	DAS-MH-105	56.7	52.3	56.0	57.3	53.0	58.0	51.7	50.0	57.3	50.0	56.7	54.5
3	DKC 9133(IM9133)	60.0	51.7	54.7	59.3	53.0	62.0	51.7	49.0	57.0	51.0	55.0	54.9
4	DKC 9141 (IM8539)	61.3	52.7	56.3	56.7	53.0	61.7	52.7	51.0	39.3	50.7	55.3	53.7
5	HTMH 5202	55.3	52.0	52.0	62.0	49.0	59.3	49.0	45.7	57.0	51.0	53.0	53.2
6	IM 8556	57.0	54.3	57.0	58.3	53.0	61.3	53.0	48.3	62.0	58.0	57.0	56.3
7	JANAHIT	54.3	53.3	56.3	57.7	51.3	60.0	51.3	50.0	55.0	50.3	57.0	54.2
8	PRO-392	53.0	52.0	51.0	58.3	52.0	61.3	49.7	38.7	62.7	49.3	53.3	52.8
9	SUPER GA-105	55.7	51.7	56.3	59.3	51.0	60.0	51.3	47.7	57.7	48.3	54.0	53.9
10	X35D601	60.0	50.7	57.7	60.0	53.7	61.3	54.3	50.0	63.0	52.3	59.0	56.5
11	SIRI 4527	56.0	49.7	53.0	57.7	52.0	61.0	52.0	46.7	57.7	48.3	54.0	53.5
CHECKS													
12	PMH 3	54.0	52.3	55.0	56.3	53.0	62.0	52.3	49.0	56.0	57.0	57.0	54.9
13	BIO-9681	55.7	49.7	54.0	53.0	50.0	61.0	48.3	45.7	55.0	47.3	53.0	52.1
14	Seedtech 2324	56.3	52.0	55.3	57.7	53.0	60.3	52.3	48.7	63.7	49.3	54.0	54.8
15	HM11	56.7	51.0	55.3	59.0	53.0	61.0	52.0	49.3	57.0	52.7	54.7	54.7
16	PMH1	55.0	50.0	53.0	55.3	51.0	61.3	51.3	48.0	57.0	50.7	58.3	53.7
Loc. Mean		56.4	51.8	55.0	57.6	52.1	60.6	51.6	47.9	57.1	51.2	55.5	54.2
C.D. (5%)		2.45	2.02	3.15	1.51	0.67	1.61	1.11	4.82	12.78	0.97	0.70	2.02
C.V. (%)		2.60	2.34	3.44	1.57	0.77	1.59	1.29	6.04	13.43	1.14	0.76	4.43
F (Prob)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.14	0.00	0.00	0.00

TABLE No. 8 (Cont..)

S.No. PEDIGREE	DAYS TO 50% SILKING												DAYS TO 75% DRY HUSK										
												ZN 5										ZN 5	
	AMBI	BANS	BHIL	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	Mean	AMBI	BANS	BHIL	DAHO	GODH	JAGD	KOTA	RAIP	UDAI	UJJA	Mean
1 CP.999	59.0	56.0	60.3	58.3	55.0	62.3	54.7	51.0	58.7	54.3	59.3	57.2	101.0	89.3	92.3	87.3	82.7	99.3	83.7	78.3	83.0	94.7	89.2
2 DAS-MH-105	59.7	55.3	59.3	61.0	55.0	62.0	54.7	53.0	59.3	51.7	59.0	57.3	105.3	88.3	91.7	85.3	82.0	104.3	87.7	79.0	81.7	95.0	90.0
3 DKC 9133(IM9133)	63.0	55.0	58.0	63.3	55.0	65.3	54.0	52.0	59.0	52.0	59.0	57.8	105.3	89.0	91.7	87.0	85.0	105.7	87.7	79.3	80.3	93.0	90.4
4 DKC 9141 (IM8539)	64.0	55.7	60.3	60.7	54.0	64.7	56.0	53.7	58.7	52.3	58.7	58.1	105.0	89.7	91.3	88.3	81.7	106.7	87.7	78.0	81.7	98.0	90.8
5 HTMH 5202	58.0	55.0	55.7	56.3	50.0	63.3	52.3	49.7	63.0	53.0	58.0	55.8	104.3	88.3	89.3	85.3	81.0	104.7	85.3	82.0	81.0	94.0	89.5
6 IM 8556	60.0	57.3	60.0	61.3	55.0	65.3	56.7	51.3	64.7	61.0	62.0	59.5	103.3	88.3	96.0	88.3	84.3	106.7	85.0	83.0	88.3	95.0	91.8
7 JANA HIT	57.3	56.0	59.3	61.7	52.7	62.7	54.0	52.7	60.0	51.7	61.0	57.2	100.0	89.7	91.3	86.0	81.0	101.0	87.7	79.7	80.3	94.0	89.1
8 PRO-392	57.0	55.0	54.0	61.0	53.0	65.3	52.3	48.7	65.0	51.3	57.0	56.3	99.0	88.0	88.3	83.7	80.7	102.0	83.7	85.7	80.3	93.7	88.5
9 SUPER GA-105	58.7	54.7	59.3	63.7	53.0	64.3	53.7	51.0	61.0	50.3	58.0	57.1	98.0	88.0	91.0	88.0	81.7	100.7	85.7	84.3	79.3	95.0	89.2
10 X35D601	63.3	53.7	60.7	64.0	56.7	64.0	57.3	53.0	66.0	53.7	66.0	59.8	103.0	88.7	91.3	87.3	84.0	103.7	86.7	85.3	83.3	98.0	91.1
11 SIRI 4527	59.3	52.7	56.3	61.3	53.0	63.0	54.3	50.0	62.0	50.3	58.3	56.4	97.0	87.0	89.0	84.7	82.0	100.0	86.0	82.3	80.0	94.0	88.2
CHECKS																							
12 PMH 3	57.0	55.3	58.3	61.0	55.0	64.0	55.0	52.3	59.3	59.3	60.0	57.9	100.0	89.0	87.0	85.3	82.7	103.3	86.0	79.0	88.3	93.0	89.4
13 BIO-9681	58.7	53.0	57.3	56.3	51.0	64.7	50.3	48.0	58.3	48.7	57.3	54.9	98.7	89.7	86.0	81.3	82.3	99.0	82.3	77.7	79.7	92.0	86.9
14 Seedtech 2324	59.0	55.0	58.7	63.0	54.0	63.3	54.3	50.7	65.7	50.7	59.0	57.6	100.3	89.3	89.0	84.7	82.7	103.3	85.7	83.7	80.3	95.0	89.4
15 HM11	60.0	54.0	58.7	63.3	54.0	63.3	54.0	52.0	61.7	54.3	59.0	57.7	104.0	87.3	88.3	86.0	82.0	105.3	85.3	82.0	84.7	93.0	89.8
16 PMH1	58.0	53.0	56.3	59.0	53.0	64.0	52.7	50.7	62.0	52.3	64.0	56.8	93.0	87.3	86.3	83.7	82.3	99.3	85.3	81.7	80.3	94.0	87.3
Loc. Mean	59.5	54.8	58.3	61.0	53.7	63.9	54.1	51.2	61.5	52.9	59.7	57.3	101.1	88.6	90.0	85.8	82.4	102.8	85.7	81.3	82.0	94.5	89.4
C.D. (5%)	2.42	2.03	3.20	1.41	0.35	1.27	1.09	1.81	3.36	1.01	0.78	1.50	2.75	3.24	2.19	1.47	2.63	1.89	1.31	3.50	1.12	0.33	1.75
C.V. (%)	2.44	2.22	3.29	1.39	0.39	1.19	1.21	2.12	3.28	1.15	0.79	3.11	1.63	2.20	1.46	1.03	1.91	1.10	0.91	2.58	0.82	0.21	2.21
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	0.85	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 8 (Cont..)

S.No.	PEDIGREE	PLANT HEIGHT(cm)											EAR HEIGHT(cm)										
		AMBI	BANS	BHIL	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	ZN 5 Mean	AMBI	BANS	BHIL	DAHO	GODH	JAGD	KOTA	RAIP	UDAI	ZN 5 Mean
1	CP.999	217.7	205.3	188.7	185.0	201.0	174.6	196.0	178.3	230.1	205.0	263.7	204.1	72.7	117.0	87.7	87.0	98.3	54.0	78.3	94.1	95.0	87.1
2	DAS-MH-105	222.8	203.7	200.0	203.0	218.7	171.6	203.3	175.0	242.3	196.7	273.7	210.1	66.2	115.0	96.3	106.3	116.3	57.1	88.3	94.4	83.3	91.5
3	DKC 9133(IM9133)	235.4	214.0	202.3	192.0	213.3	187.3	206.7	173.3	241.4	201.7	255.0	211.1	66.4	130.3	96.7	81.3	116.0	57.7	71.7	94.9	96.7	90.2
4	DKC 9141 (IM8539)	236.5	202.0	209.7	207.3	184.0	192.5	225.3	193.3	255.1	233.3	261.7	218.3	65.3	111.7	92.7	89.0	106.7	56.0	90.0	97.9	96.7	89.5
5	HTMH 5202	216.4	205.3	174.0	167.7	205.0	166.8	183.0	141.7	223.6	183.3	264.0	193.7	66.9	122.0	85.7	84.3	103.3	57.6	75.0	90.4	85.0	85.6
6	IM 8556	223.6	225.0	229.7	202.0	211.3	181.3	213.7	163.3	249.3	203.3	253.0	214.1	76.2	144.0	111.3	108.0	120.0	66.2	71.7	112.2	91.7	100.1
7	JANA HIT	213.1	203.7	164.7	181.3	201.7	171.2	201.1	155.0	248.8	235.0	259.3	203.2	62.2	110.7	76.7	86.7	94.0	52.1	71.7	96.7	93.3	82.7
8	PRO-392	214.2	201.7	208.0	175.3	202.0	172.9	191.7	161.7	225.4	203.3	260.3	201.5	74.9	111.7	102.0	75.3	104.7	63.9	75.0	85.3	93.3	87.4
9	SUPER GA-105	212.1	212.7	178.7	198.0	206.7	173.2	191.7	161.7	248.4	205.0	255.7	204.0	71.9	110.3	82.0	88.7	106.7	62.9	71.7	103.0	91.7	87.6
10	X35D601	225.9	216.7	184.3	192.0	200.3	169.6	224.3	171.7	236.1	210.0	251.3	207.5	90.7	150.3	98.0	104.0	124.0	74.4	76.7	104.5	88.3	101.2
11	SIRI 4527	229.7	205.3	194.0	203.3	190.0	179.7	203.7	175.0	214.1	205.0	245.0	204.1	83.6	117.0	97.0	97.0	87.3	74.1	81.7	92.7	83.3	90.4
	CHECKS																						
12	PMH 3	217.9	233.3	207.7	198.3	219.0	181.0	204.7	160.0	247.1	196.7	252.0	210.7	70.6	167.3	103.7	86.7	122.3	64.9	76.7	101.2	90.0	98.2
13	BIO-9681	214.6	207.7	162.3	174.0	197.7	176.8	188.7	143.3	228.5	201.7	247.7	194.8	54.7	113.3	65.7	72.7	91.0	53.2	63.3	79.3	73.3	74.1
14	Seedtech 2324	207.1	190.7	163.0	189.7	169.0	168.9	201.7	156.7	228.3	198.3	236.0	191.8	77.5	112.7	85.0	87.0	76.7	67.7	76.7	108.1	98.3	87.7
15	HM11	202.5	190.7	169.3	168.3	190.7	168.6	198.3	180.0	228.0	181.7	239.3	192.5	70.1	124.0	75.0	75.3	99.7	60.1	78.3	92.1	78.3	83.7
16	PMH1	230.0	227.3	211.7	208.0	212.3	182.2	200.3	183.3	237.5	220.0	227.7	212.8	88.7	133.7	111.3	120.3	116.0	75.3	86.7	101.0	110.0	104.8
	Loc. Mean	220.0	209.1	190.5	190.3	201.4	176.2	202.1	167.1	236.5	205.0	252.8	204.6	72.4	124.4	91.7	90.6	105.2	62.3	77.1	96.8	90.5	90.1
	C.D. (5%)	20.74	28.72	30.15	13.88	22.20	10.72	11.11	6.28	28.43	9.71	2.02	9.07	16.57	22.14	20.33	9.74	13.83	11.44	5.13	18.33	9.92	8.11
	C.V. (%)	5.65	8.24	9.49	4.37	6.61	3.65	3.30	2.26	7.21	2.84	0.48	5.26	13.73	10.67	13.30	6.45	7.89	11.01	3.99	11.36	6.57	9.64
	F (Prob)	0.07	0.19	0.00	0.00	0.01	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00

TABLE No. 9: PERFORMANCE OF MEDIUM MATURITY EXPERIMENTAL HYBRIDS AT BAJAURA, BERTIN, DHAULAKUAN, KANGRA, POONCH, RAJOURI, UDHAMPUR IN AVT1 TRIAL No. 66Z1 (AVT1-M-Z1) DURING KHARIF (2014)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 1		OVL	
		BAJA R	BARA R	BERT R	DHAU R	KANG R	POON R	RAJO R	UDHA R	MEAN R	MEAN R						
1	LG 32.82	13012	2613	4188	9888	6646	8745	4223	6422	7589	7589						
2	Seedtech 2324-F	12692	4580	5884	8226	3834	8721	3194	7343	7128	7128						
3	Bio-9637-F	15348	4722	6160	8891	4606	8787	4044	6661	7785	7785						
CHECKS																	
4	PMH4	12005	5020	6404	9094	7347	7794	3467	6710	7546	7546						
5	HM9	7914	4356	3885	6539	3918	7193	4448	6553	5779	5779						
6	HM10	10218	2946	4978	5938	5276	7933	3756	7579	6525	6525						
7	BIO-9637	10590	3202	4989	9339	4798	6954	3083	6889	6663	6663						
Location Mean		11683	3920	5212	8273	5204	8018	3745	6880	7002	7002						
C.D. (5%)		5286	3059	410	1090	342	1039	585	579	1333	1333						
C.V. (%)		25.18	43.43	4.38	7.33	3.65	7.21	8.7	4.69	-	-						
F (Prob)		0.088	0.423	0	0	0	0.002	0.001	0.005								
Plot Size		6	9.6	7.2	7.2	9.6	9.6	9.6	9.6	-	-						
AGRONOMY DATA																	
Sowing Date		21-06	30-06	6-07	23-06	25-06	23-06	24-06	6-07	-	-						
Harvest Date		25-10	25-10	21-10	25-09	2-10	10-11	10-08	16-10	-	-						
Irrigation Nos		3	-	-	-	-	-	-	-	-	-						
Fertilizer Applied N		120	80	120	120	120	100	120	120	-	-						
Fertilizer Applied P		60	60	60	60	60	80	60	60	-	-						
Fertilizer Applied K		40	40	40	40	40	60	40	40	-	-						

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : BARA 43.4 %

TABLE No. 9 (Cont..)

		GRAIN YIELD % SUPERIORITY OVER THE PMH4										GRAIN YIELD % SUPERIORITY OVER THE HM9													
SI												ZN 1	OV'L											ZN 1	OV'L
No	PEDIGREE	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	MEAN	MEAN	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	MEAN	MEAN				
1	LG 32.82	8.4	-	-	8.7	-	12.2	21.8	-	0.6	0.6	64.4	-	7.8	51.2	69.6	21.6	-	-	31.3	31.3				
2	Seedtech 2324-F	5.7	-	-	-	-	11.9	-	9.4	-	-	60.4	5.1	51.5	25.8	-	21.3	-	12.1	23.3	23.3				
3	Bio-9637-F	27.8	-	-	-	-	12.7	16.7	-	3.2	3.2	93.9	8.4	58.6	36	17.6	22.2	-	1.6	34.7	34.7				
CHECKS																									
4	PMH4	-	-	-	-	-	-	-	-	-	-	51.7	15.2	64.9	39.1	87.5	8.4	-	2.4	30.6	30.6				
5	HM9	-	-	-	-	-	-	28.3	-	-	-	-	-	-	-	-	-	-	-	-	-				
6	HM10	-	-	-	-	-	1.8	8.3	12.9	-	-	29.1	-	28.1	-	34.7	10.3	-	15.6	12.9	12.9				
7	BIO-9637	-	-	-	2.7	-	-	-	2.7	-	-	33.8	-	28.4	42.8	22.5	-	-	5.1	15.3	15.3				

		GRAIN YIELD % SUPERIORITY OVER THE HM10										GRAIN YIELD % SUPERIORITY OVER THE BIO-9637													
SI												ZN 1	OV'L											ZN 1	OV'L
No	PEDIGREE	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	MEAN	MEAN	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	MEAN	MEAN				
1	LG 32.82	27.3	-	-	66.5	26	10.2	12.5	-	16.3	16.3	22.9	-	-	5.9	38.5	25.8	37	-	13.9	13.9				
2	Seedtech 2324-F	24.2	55.5	18.2	38.5	-	9.9	-	-	9.2	9.2	19.8	43	17.9	-	-	25.4	3.6	6.6	7	7				
3	Bio-9637-F	50.2	60.3	23.8	49.7	-	10.8	7.7	-	19.3	19.3	44.9	47.4	23.5	-	-	26.4	31.2	-	16.8	16.8				
CHECKS																									
4	PMH4	17.5	70.4	28.7	53.1	39.2	-	-	-	15.6	15.6	13.4	56.8	28.4	-	53.1	12.1	12.5	-	13.2	13.2				
5	HM9	-	47.9	-	10.1	-	-	18.4	-	-	-	-	36	-	-	-	3.4	44.3	-	-	-				
6	HM10	-	-	-	-	-	-	-	-	-	-	-	-	-	10	14.1	21.8	10	-	-	-				
7	BIO-9637	3.6	8.7	0.2	57.3	-	-	-	-	2.1	2.1	-	-	-	-	-	-	-	-	-	-				

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : BARA 43.4 %

TABLE No. 9 (Cont.)

S.No.	PEDIGREE	GRAIN SHELLING %									MOISTURE % AT HARVEST								
		BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	Mean	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	Mean
		ZN 1									ZN 1								
1	LG 32.82	80.4	68.7	70.5	82.3	74.6	81.3	75.0	75.4	76.0	23.6	28.7	27.5	27.7	27.2	20.0	20.0	25.5	25.0
2	Seedtech 2324-F	84.3	77.3	75.0	78.2	78.5	79.3	67.3	81.0	77.6	24.6	23.0	28.1	29.0	28.1	19.6	19.5	25.0	24.6
3	Bio-9637-F	80.2	73.3	75.6	79.0	81.1	80.0	64.0	77.1	76.3	23.7	23.5	27.3	27.8	27.1	19.5	19.5	25.5	24.2
	CHECKS																		
4	PMH4	85.9	80.0	80.5	82.1	83.5	80.3	66.7	80.8	80.0	23.5	21.7	27.7	27.5	27.0	20.0	18.2	24.5	23.7
5	HM9	74.9	76.7	73.2	81.7	76.0	84.3	71.0	78.8	77.1	24.0	27.3	27.5	26.6	26.8	19.7	20.7	24.5	24.6
6	HM10	78.6	72.0	73.5	79.1	72.0	81.0	71.0	80.3	75.9	26.0	25.7	28.1	29.8	26.3	19.7	22.3	24.5	25.3
7	BIO-9637	80.5	72.7	76.7	83.7	79.0	83.0	66.0	80.3	77.7	23.9	26.0	28.0	31.1	27.7	21.0	20.9	25.0	25.4
	Loc. Mean	80.7	74.4	75.0	80.8	77.8	81.3	68.7	79.1	77.2	24.2	25.1	27.7	28.5	27.2	19.9	20.1	24.9	24.7
	C.D. (5%)	0.00	8.91	1.11	3.22	1.37	1.55	3.83	3.86	3.03	0.93	4.90	0.92	2.09	0.23	1.37	0.90	1.01	1.16
	C.V. (%)	0.00	6.74	0.83	2.24	0.99	1.07	3.13	2.74	3.89	2.17	10.95	1.87	4.12	0.49	3.85	2.50	2.27	4.64
	F (Prob)	0.00	0.19	0.00	0.02	0.00	0.00	0.00	0.06	0.13	0.00	0.08	0.39	0.01	0.00	0.30	0.00	0.16	0.07
S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)									DAYS TO 50% POLLEN SHED								
		BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	Mean	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	Mean
		ZN 1									ZN 1								
1	LG 32.82	77.2	48.3	70.4	64.8	74.3	41.7	84.0	68.8	66.2	57.3	57.3	57.7	53.3	50.0	59.0	56.4	55.0	55.8
2	Seedtech 2324-F	66.1	49.3	71.3	61.1	75.0	45.5	78.5	72.2	64.9	61.3	54.3	61.7	53.7	54.0	62.0	58.0	55.7	57.6
3	Bio-9637-F	63.9	53.1	73.1	65.3	77.1	41.3	77.1	70.8	65.2	57.3	55.0	53.3	48.7	49.3	56.0	57.6	54.7	54.0
	CHECKS																		
4	PMH4	69.4	54.2	74.1	63.4	78.1	44.1	76.0	70.1	66.2	53.3	58.0	49.3	47.7	46.7	54.3	61.5	54.0	53.1
5	HM9	63.9	46.2	70.4	54.6	77.4	42.0	78.5	69.4	62.8	55.0	58.0	53.7	51.7	50.0	54.0	56.6	56.0	54.4
6	HM10	67.8	51.7	70.4	57.9	77.4	41.3	80.2	71.5	64.8	56.0	56.0	58.0	53.3	50.7	55.7	51.3	54.7	54.5
7	BIO-9637	60.0	51.0	73.1	63.4	79.9	41.3	78.1	71.5	64.8	55.7	52.3	55.0	51.7	49.0	57.0	57.1	54.7	54.1
	Loc. Mean	66.9	50.5	71.8	61.5	77.0	42.5	78.9	70.6	65.0	56.6	55.9	55.5	51.4	50.0	56.9	56.9	55.0	54.8
	C.D. (5%)	4.82	8.54	5.86	10.94	4.41	5.29	12.07	3.35	2.96	1.39	2.59	2.11	1.44	1.52	1.83	2.26	0.99	2.33
	C.V. (%)	4.05	9.50	4.59	10.00	3.22	7.00	8.60	2.67	4.51	1.38	2.61	2.14	1.57	1.71	1.81	2.23	1.01	4.21
	F (Prob)	0.00	0.46	0.66	0.36	0.20	0.50	0.84	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01

TABLE No. 9 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% SILKING								DAYS TO 75% DRY HUSK									
		BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA		
		ZN 1								ZN 1									
		Mean								Mean									
1	LG 32.82	59.3	58.7	61.3	57.7	53.7	63.0	59.8	59.0	59.1	95.0	104.7	101.0	87.3	95.0	115.0	97.3	97.7	99.1
2	Seedtech 2324-F	64.3	55.7	65.0	58.3	57.7	65.7	60.5	60.3	60.9	103.3	105.3	105.0	93.3	99.0	116.7	95.3	98.7	102.1
3	Bio-9637-F	60.0	56.3	58.0	54.7	52.7	59.7	59.0	59.3	57.5	98.7	103.7	97.3	92.3	94.0	111.0	95.5	97.7	98.8
CHECKS																			
4	PMH4	56.0	59.0	53.0	53.3	50.0	57.3	63.8	58.3	56.3	92.7	105.7	92.3	88.7	91.7	112.7	94.7	97.0	96.9
5	HM9	57.7	59.3	57.7	56.0	53.3	57.3	59.8	60.7	57.7	97.3	109.7	97.3	88.3	94.7	111.0	98.1	98.3	99.3
6	HM10	58.3	57.3	61.3	58.0	54.3	59.3	54.0	59.0	57.7	102.0	105.7	100.7	92.0	95.7	114.0	101.5	97.0	101.1
7	BIO-9637	57.7	53.3	59.7	56.3	52.3	60.3	60.1	59.3	57.4	99.7	103.7	99.3	93.0	93.7	112.0	97.4	97.7	99.6
Loc. Mean		59.0	57.1	59.4	56.3	53.4	60.4	59.6	59.4	58.1	98.4	105.5	99.0	90.7	94.8	113.2	97.1	97.7	99.6
C.D. (5%)		1.44	2.58	2.18	1.18	1.20	2.10	2.73	1.59	2.26	2.27	1.78	1.66	1.50	1.03	2.71	2.23	1.19	2.20
C.V. (%)		1.37	2.54	2.07	1.17	1.26	1.96	2.58	1.51	3.86	1.30	0.95	0.94	0.93	0.61	1.34	1.29	0.68	2.19
F (Prob)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00

S.No.	PEDIGREE	PLANT HEIGHT(cm)								EAR HEIGHT(cm)									
		BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA		
		ZN 1								ZN 1									
		Mean								Mean									
1	LG 32.82	220.0	199.3	181.7	267.9	231.3	261.5	212.3	189.8	220.5	113.3	101.3	88.7	117.6	114.3	118.7	106.0	66.1	108.6
2	Seedtech 2324-F	215.0	205.0	223.0	276.2	209.7	274.3	176.0	178.5	219.7	121.7	106.7	118.7	141.8	107.3	143.2	88.7	69.4	118.3
3	Bio-9637-F	231.7	209.3	228.3	297.3	224.0	276.8	212.3	196.0	234.5	118.3	102.3	106.7	118.3	116.0	132.0	107.0	68.6	114.4
CHECKS																			
4	PMH4	203.3	193.7	202.0	259.6	199.3	250.3	193.0	204.5	213.2	110.0	107.3	106.0	100.5	89.7	118.3	95.0	83.3	103.8
5	HM9	208.3	192.3	193.3	257.8	201.3	272.5	198.0	149.9	209.2	121.7	110.3	100.7	102.7	100.7	123.7	98.0	53.9	108.2
6	HM10	232.3	185.7	210.3	246.6	197.0	270.6	202.0	179.5	215.5	120.0	93.3	109.7	126.5	95.7	124.7	100.3	67.6	110.0
7	BIO-9637	243.3	183.0	252.0	283.1	221.7	272.8	198.0	179.7	229.2	131.7	93.0	123.3	121.0	103.7	123.3	99.3	68.8	113.6
Loc. Mean		222.0	195.5	213.0	269.8	212.0	268.4	198.8	182.6	220.3	119.5	102.0	107.7	118.4	103.9	126.3	99.2	68.3	111.0
C.D. (5%)		16.91	6.24	13.06	14.60	11.77	16.14	4.01	37.22	13.48	15.30	12.19	6.28	9.32	6.81	16.76	5.80	28.04	9.59
C.V. (%)		4.28	1.79	3.45	3.04	3.12	3.38	1.13	11.46	6.06	7.20	6.71	3.28	4.43	3.68	7.46	3.29	23.10	7.97
F (Prob)		0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.13	0.01	0.15	0.05	0.00	0.00	0.00	0.08	0.00	0.53	0.09

Locations Rejected due to High C.V.(i.e.> 20%) : UDHAMPUR 23.1%

TABLE No. 10: PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT ALIGARH, GURDASPUR, HISAR, JHANSI, KANPUR, KAPURTHALA, KARNAL, LUDHIANA, PANTNAGAR IN AVT1 & AVT2 TRIAL No. 6670Z2 (AVT1-M-Z2 & AVT2-M-Z2) DURING KHARIF (2014)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																GRAIN YIELD % SUPERIORITY OVER THE PMH4													
		ALIG	R	GURD	R	HISA	R	JHAN	R	KANP	R	KAPU	R	KARN	R	LUDH	R	PANT	R	ZN 2					ZN 2						
		MEAN	R	ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	MEAN	R	ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	MEAN	R						
1	AQH 4	7026	8	3234	13	4849	15	3337	11	7273	1	5220	10	10260	2	6622	11	8271	12	6233	12	-	-	-	-	36.7	-	14.1	-	-	-
2	CMH 10-547	6537	10	7405	2	6356	4	5227	3	6238	9	6638	4	9074	7	9670	4	10886	8	7559	4	-	18.2	-	-	17.3	15.3	0.9	20.4	17.4	5.9
3	DKC 9144(IM8478)	9986	1	7998	1	6386	3	3547	9	6986	3	5563	9	9070	8	10506	2	13588	1	8181	1	18.3	27.7	-	-	31.3	-	0.9	30.9	46.5	14.6
4	DKC 9149(IM8581)	6758	9	5885	10	5618	11	3020	14	6204	10	6919	3	9333	5	8131	6	10660	9	6948	9	-	-	-	-	16.6	20.2	3.8	1.3	14.9	-
5	FCH 11231	6013	12	6264	5	6039	8	4534	5	6509	5	6316	5	8881	10	8492	5	11467	5	7168	7	-	0	-	-	22.3	9.7	-	5.8	23.6	0.4
6	JKMH 4545	8976	3	5920	9	6776	1	7319	1	5935	11	4715	12	8715	11	7452	9	11042	7	7428	5	6.3	-	5.4	27	11.6	-	-	-	19	4
7	S-6750	7988	6	7155	3	6256	5	4607	4	7031	2	5809	7	8673	12	10211	3	11246	6	7664	3	-	14.2	-	-	32.2	0.9	-	27.2	21.2	7.3
8	TH-38	8636	4	6074	8	6198	6	3828	8	6608	4	4824	11	9198	6	8031	7	12210	3	7290	6	2.3	-	-	-	24.2	-	2.3	0	31.6	2.1
9	DKC 9145(IJ8533)	9690	2	7014	4	6003	9	3964	7	6345	6	6239	6	9956	4	10589	1	12668	2	8052	2	14.8	12	-	-	19.3	8.4	10.7	31.9	36.6	12.8
10	RASI-3033	7361	7	6120	7	5059	14	3469	10	6274	8	6926	2	7839	15	6570	12	11711	4	6814	10	-	-	-	-	17.9	20.3	-	-	26.2	-
CHECKS																															
11	PMH4	8442	5	6264	6	6429	2	5762	2	5320	13	5756	8	8993	9	8029	8	9276	11	7141	8	-	-	-	-	-	-	-	-	-	-
12	HM9	6529	11	2921	14	5904	10	3094	13	6333	7	4545	13	7940	13	4665	14	6947	13	5431	14	-	-	-	-	19	-	-	-	-	-
13	HM10	4843	14	4605	12	5485	12	2997	15	5207	14	4231	14	9965	3	5827	13	6461	15	5513	13	-	-	-	-	-	-	10.8	-	-	-
14	BIO-9637	5464	13	5197	11	6060	7	3265	12	4887	15	7129	1	7888	14	7360	10	9547	10	6311	11	-	-	-	-	-	23.9	-	-	2.9	-
15	HM4	4297	15	2178	15	5270	13	4199	6	5675	12	3975	15	10546	1	4540	15	6631	14	5257	15	-	-	-	-	6.7	-	17.3	-	-	-
Location Mean		7236	5615	5913	4145	6188	5654	9089	7780	10174	6866																				
C.D. (5%)		1805	1349	1250	313	330	1068	304	968	1561	994																				
C.V. (%)		14.89	14.34	12.62	4.51	3.18	11.27	2	7.43	9.16	-																				
F (Prob)		0	0	0.101	0	0	0	0	0	0	-																				
Plot Size		14.4	16.38	18	14.4	14.4	14.4	18	16.38	18	-																				
AGRONOMY DATA																															
Sowing Date		7-02	4-07	15-07	21-07	26-07	10-07	3-07	27-06	25-06	-																				
Harvest Date		-	13-10	30-10	20-10	6-11	4-11	5-10	17-10	30-10	-																				
Irrigation Nos		2	2	5	1	2	3	5	5	1	-																				
Fertilizer Applied N		120	125	150	120	120	120	150	125	120	-																				
Fertilizer Applied P		60	60	60	60	60	60	60	60	60	-																				
Fertilizer Applied K		50	-	60	-	50	40	60	30	40	-																				

TABLE No. 10 (Cont..)

S.No. PEDIGREE	GRAIN SHELLING %										MOISTURE % AT HARVEST										
	ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	ZN 2		ALIG	GURD	HISA	JHAN	KANP	KARN	LUDH	PANT	ZN 2	
										Mean	Mean									Mean	
1 AQH 4	70.7	81.4	67.2	79.7	74.7	65.9	68.9	83.0	78.0	74.4		20.0	21.4	24.6	15.0	15.7	21.7	21.1	16.1	19.4	
2 CMH 10-547	74.0	84.3	69.1	79.0	75.0	67.3	67.0	84.0	80.3	75.5		24.7	22.4	25.3	19.0	17.0	21.1	22.3	19.4	21.4	
3 DKC 9144(IM8478)	73.0	83.2	69.2	82.3	75.0	66.3	68.6	86.6	80.0	76.0		22.7	22.8	25.0	17.7	15.3	22.0	21.3	19.2	20.7	
4 DKC 9149(IM8581)	68.7	82.3	67.9	75.3	74.3	70.7	68.2	83.8	80.9	74.7		21.7	22.5	24.9	20.0	13.7	20.8	23.9	20.9	21.0	
5 FCH 11231	68.0	83.1	69.6	74.0	74.0	64.1	66.4	84.7	81.5	73.9		23.7	22.6	27.3	19.7	15.7	21.3	22.8	16.6	21.2	
6 JKMH 4545	72.7	82.0	68.1	83.3	75.3	71.9	65.0	87.5	80.4	76.3		22.0	22.0	28.0	15.3	15.7	21.8	21.1	18.8	20.6	
7 S-6750	71.3	81.2	67.1	76.3	73.7	62.8	67.7	86.8	77.5	73.8		23.7	22.4	27.2	18.3	17.3	21.9	23.3	16.6	21.3	
8 TH-38	70.3	78.8	69.3	80.7	72.3	62.6	67.4	86.6	82.4	74.5		21.3	22.3	28.5	20.0	16.3	20.8	19.9	17.6	20.8	
9 DKC 9145(IJ8533)	69.3	81.8	67.9	82.7	74.7	60.7	67.2	85.5	80.7	74.5		23.0	22.5	26.5	20.0	15.7	21.2	25.9	26.5	22.7	
10 RASI-3033	67.0	81.5	68.1	81.3	75.0	66.0	65.2	87.2	82.6	74.9		21.0	22.5	28.9	18.3	16.3	22.6	23.1	20.1	21.6	
CHECKS																					
11 PMH4	77.0	81.7	68.5	81.0	74.7	65.3	65.9	86.2	84.8	76.1		18.3	22.1	26.7	14.3	16.7	22.2	22.7	16.2	19.9	
12 HM9	69.0	81.2	69.5	78.3	73.7	76.1	67.8	84.3	74.6	74.9		19.0	22.0	26.2	20.3	14.7	20.6	19.8	16.6	19.9	
13 HM10	66.0	78.9	67.7	75.0	74.3	65.4	67.5	80.9	77.6	72.6		21.7	22.2	25.6	21.0	15.7	21.2	21.6	17.5	20.8	
14 BIO-9637	71.0	81.3	67.1	79.7	72.7	69.8	65.4	85.9	79.3	74.7		22.0	22.4	26.1	21.7	16.0	21.8	22.3	16.4	21.1	
15 HM4	69.7	80.4	68.1	79.3	75.3	68.0	67.7	83.1	81.1	74.8		21.3	21.8	25.2	20.0	16.7	21.6	19.9	16.1	20.3	
Loc. Mean	70.5	81.5	68.3	79.2	74.3	66.9	67.1	85.1	80.1	74.8		21.7	22.2	26.4	18.7	15.9	21.5	22.1	18.3	20.9	
C.D. (5%)	1.39	2.00	1.71	2.94	1.21	4.31	0.23	0.85	3.85	2.06		2.23	0.57	0.81	1.81	1.18	0.23	1.63	1.87	1.52	
C.V. (%)	1.18	1.46	1.49	2.22	0.98	3.85	0.20	0.60	2.87	2.95		6.14	1.54	1.84	5.78	4.44	0.64	4.41	6.11	7.37	
F (Prob)	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	

TABLE No. 10 (Cont..)

S.No. PEDIGREE	STAND AT HARVEST ('000/ha)										DAYS TO 50% POLLEN SHED										
	ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	Mean	ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	Mean	
1 AQH 4	79.4	36.0	60.0	52.1	72.2	81.5	60.4	66.3	65.7	63.7	41.7	54.7	50.7	41.3	45.3	60.0	47.3	49.7	53.0	49.3	
2 CMH 10-547	64.1	44.8	59.1	51.9	70.6	73.8	60.9	61.3	60.6	60.8	47.3	57.0	52.0	41.3	45.0	57.0	51.0	52.3	53.7	50.7	
3 DKC 9144(IM8478)	85.0	53.1	58.3	50.0	74.3	77.1	61.3	70.0	66.7	66.2	53.0	56.3	51.0	39.3	46.0	60.7	48.7	53.3	56.0	51.6	
4 DKC 9149(IM8581)	68.1	46.4	62.6	53.9	72.9	80.1	61.5	65.9	66.7	64.2	51.0	57.0	52.3	42.0	45.0	57.7	53.7	51.7	54.0	51.6	
5 FCH 11231	62.0	34.4	58.3	53.2	71.1	75.0	60.7	61.3	58.7	59.4	51.0	60.3	54.3	40.3	46.0	58.7	51.7	52.7	56.3	52.4	
6 JKMH 4545	74.8	42.7	63.0	54.4	74.3	81.5	61.1	65.7	60.0	64.2	43.3	54.7	50.3	38.3	48.3	58.0	50.0	48.3	52.0	49.3	
7 S-6750	69.7	47.8	60.4	54.6	73.4	75.0	61.7	71.6	62.2	64.0	42.3	59.0	51.3	39.3	45.3	58.3	52.7	52.7	52.3	50.4	
8 TH-38	75.5	41.1	61.7	52.8	72.0	75.0	62.6	67.2	66.7	63.8	47.0	57.7	53.3	39.0	46.7	61.3	52.7	53.3	53.7	51.6	
9 DKC 9145(IJ8533)	91.7	49.9	60.4	52.5	74.5	75.0	62.0	66.3	66.7	66.6	55.3	58.7	52.3	41.0	43.7	58.3	52.0	52.7	54.3	52.0	
10 RASI-3033	72.5	44.6	56.1	50.7	73.8	75.5	62.6	48.2	63.9	60.9	44.7	58.7	55.0	39.0	44.7	60.7	48.0	51.7	56.7	51.0	
CHECKS																					
11 PMH4	80.8	49.2	60.9	54.2	73.6	74.1	61.9	68.0	64.8	65.3	46.7	54.3	51.3	39.0	43.7	60.3	47.7	50.0	50.7	49.3	
12 HM9	69.4	30.3	63.0	51.9	72.5	78.5	60.4	62.7	65.9	61.6	44.3	54.7	51.3	40.3	46.7	58.7	50.7	50.0	50.0	49.6	
13 HM10	70.1	38.7	58.5	53.0	74.1	71.8	61.7	62.7	57.0	60.8	44.7	56.3	53.3	39.0	45.3	59.7	53.3	53.7	55.7	51.2	
14 BIO-9637	72.5	41.3	61.5	51.9	72.9	71.1	60.9	62.7	59.4	61.6	45.3	56.3	51.3	39.3	44.7	57.7	52.3	48.7	50.3	49.6	
15 HM4	43.8	21.6	54.8	54.4	73.6	76.9	60.6	36.4	37.4	51.0	45.3	55.0	54.7	38.7	46.3	60.3	53.3	50.0	53.3	50.8	
Loc. Mean	71.9	41.5	59.9	52.8	73.1	76.1	61.3	62.4	61.5	62.3	46.9	56.7	52.3	39.8	45.5	59.2	51.0	51.4	53.5	50.7	
C.D. (5%)	16.36	10.79	5.74	2.49	1.83	5.04	2.04	4.84	2.76	4.87	1.81	1.97	1.92	1.66	1.32	2.42	1.15	1.09	3.63	1.77	
C.V. (%)	13.59	15.56	5.73	2.83	1.50	3.96	1.99	4.64	2.68	8.37	2.31	2.08	2.19	2.50	1.73	2.44	1.35	1.27	4.06	3.73	
F (Prob)	0.00	0.00	0.19	0.01	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.00	

TABLE No. 10 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% SILKING										DAYS TO 75% DRY HUSK										
		ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	ZN 2		ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	ZN 2	
											Mean	Mean									Mean	
1	AQH 4	47.0	55.0	53.0	45.3	48.7	65.0	49.3	50.7	55.7	52.2	77.0	89.7	90.7	83.3	94.0	97.3	79.3	83.0	86.8		
2	CMH 10-547	52.0	58.0	54.7	46.3	47.7	62.7	53.0	53.3	56.3	53.8	81.7	93.0	93.7	86.7	100.3	96.0	85.0	90.7	90.9		
3	DKC 9144(IM8478)	59.7	57.7	53.3	44.7	50.0	66.3	50.7	54.3	59.0	55.1	82.0	92.3	94.7	83.7	93.7	97.3	82.7	92.3	89.8		
4	DKC 9149(IM8581)	57.0	59.0	55.0	48.0	47.7	63.7	55.7	52.7	57.0	55.1	77.3	93.3	95.0	86.0	94.0	98.7	86.7	90.7	90.2		
5	FCH 11231	57.3	61.7	56.7	44.3	49.3	64.3	53.7	53.7	59.3	55.6	80.3	95.7	92.7	85.7	95.3	96.7	83.7	87.3	89.7		
6	JKMH 4545	49.7	55.3	52.7	43.3	51.3	64.3	51.0	49.3	55.0	52.4	82.7	91.3	89.3	85.3	96.0	96.7	82.0	81.0	88.0		
7	S-6750	48.7	59.7	54.3	43.3	48.3	64.7	54.7	53.7	55.3	53.6	82.7	93.3	96.0	86.0	93.7	98.7	83.7	91.7	90.7		
8	TH-38	52.7	60.7	56.0	44.7	50.0	67.0	53.7	54.3	56.7	55.1	80.0	91.7	96.0	82.0	98.3	106.0	85.7	92.0	91.5		
9	DKC 9145(IJ8533)	60.3	60.3	55.0	45.3	46.7	65.3	54.0	53.7	57.0	55.3	82.7	94.7	94.0	90.3	94.3	96.3	85.0	91.7	91.1		
10	RASI-3033	51.3	60.3	58.0	45.0	48.0	66.3	50.0	52.7	59.7	54.6	80.0	92.7	94.0	89.7	96.3	102.7	79.0	90.7	90.6		
	CHECKS																					
11	PMH4	52.0	56.0	54.3	43.3	46.7	65.3	49.7	51.0	53.7	52.4	76.3	90.7	91.0	85.7	94.7	96.3	80.7	82.0	87.2		
12	HM9	51.0	56.0	53.7	45.0	50.7	64.0	52.7	51.0	53.0	53.0	79.3	89.3	90.0	86.7	94.7	97.3	81.7	84.3	87.9		
13	HM10	50.7	58.0	55.3	46.3	49.3	64.3	55.3	55.3	58.0	54.7	82.0	95.0	97.3	90.3	96.3	107.7	85.3	88.3	92.8		
14	BIO-9637	50.3	57.7	54.0	43.3	48.3	64.0	54.3	49.7	53.3	52.8	78.0	91.0	92.3	85.3	92.7	96.7	86.3	82.3	88.1		
15	HM4	50.0	55.7	56.3	44.7	49.3	65.7	55.3	51.0	56.0	53.8	82.7	90.7	91.0	87.0	96.3	95.3	86.3	81.0	88.8		
	Loc. Mean	52.6	58.1	54.8	44.9	48.8	64.9	52.9	52.4	56.3	54.0	80.3	92.3	93.2	86.2	95.4	98.6	83.5	87.3	89.6		
	C.D. (5%)	1.80	2.64	1.99	2.38	1.30	2.40	1.15	1.12	3.54	1.75	2.63	3.28	2.65	2.58	1.81	4.40	1.15	1.69	2.40		
	C.V. (%)	2.04	2.72	2.17	3.17	1.59	2.21	1.30	1.28	3.75	3.47	1.96	2.12	1.70	1.79	1.13	2.66	0.82	1.16	2.69		
	F (Prob)	0.00	0.00	0.00	0.02	0.00	0.07	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

TABLE No. 11: PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BAHRAICH, BHUBANESHWAR, CHHAPRA, DHOLI, KORAPUT, RANCHI, VARANASI IN AVT1 TRIAL No. 66Z3 (AVT1-M-Z3) DURING KHARIF (2014)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 3			
		BAHR	R	BHUB	R	CHHA	R	DHOL	R	KORA	R	RANC	R	VARA	R	MEAN	R
1	AQH 9	4095	10	5750	4	3607	5	4738	4	6174	6	6248	10	4952	8	5081	9
2	CMH 11-582	9302	1	5945	2	3376	7	4170	7	5094	10	7523	5	6564	4	5996	5
3	DKC 8144(IM 8479)	6642	5	5128	9	3080	10	3998	8	7307	1	7007	8	6098	6	5608	7
4	DKC 9144(IM8478)	8965	2	5473	7	4067	2	4905	1	6469	4	9147	1	6666	3	6527	1
5	Kuber shakthi	5170	7	5826	3	3815	4	4865	3	6547	3	8831	3	8732	1	6255	3
6	S-6750	5827	6	6954	1	3918	3	4558	5	7188	2	9119	2	6283	5	6264	2
CHECKS																	
7	PMH 4	8047	4	5493	6	3563	6	4541	6	6032	7	7820	4	7127	2	6089	4
8	HM9	4775	8	5061	10	3184	8	3946	9	5731	9	6569	9	4467	10	4819	10
9	HM10	4752	9	5749	5	3120	9	3800	10	6415	5	7244	7	4787	9	5124	8
10	BIO-9637	8638	3	5369	8	4084	1	4883	2	5827	8	7486	6	5495	7	5969	6
Location Mean		6622		5675		3581		4440		6278		7699		6117		5773	
C.D. (5%)		370		511		750		728		730		1069		973		733	
C.V. (%)		3.25		5.23		12.15		9.51		6.75		8.06		9.24		-	
F (Prob)		0		0		0.044		0.065		0		0		0		-	
Plot Size		9.6		9.6		12		12		9.6		11.2		9.6		-	
AGRONOMY DATA																	
Sowing Date		2-07		26-06		23-07		14-07		2-07		5-07		28-06		-	
Harvest Date		5-10		14-10		31-10		20-10		3-11		1-11		5-10		-	
Irrigation Nos		-		-		2		2		-		-		2		-	
Fertilizer Applied N		120		120		100		120		120		120		120		-	
Fertilizer Applied P		60		60		60		60		60		60		60		-	
Fertilizer Applied K		40		60		40		40		60		40		40		-	

TABLE No.11 (Cont..)

		GRAIN SHELLING %								MOISTURE % AT HARVEST							
		ZN 3								ZN 3							
S.No.	PEDIGREE	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	Mean	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	Mean
1	AQH 9	70.5	80.4	79.5	82.5	76.6	83.4	72.0	77.8	23.1	17.8	24.8	21.9	17.1	19.3	31.8	22.2
2	CMH 11-582	81.6	79.7	77.5	79.5	75.3	84.1	73.6	78.7	26.9	17.0	26.6	27.6	17.2	21.3	32.8	24.2
3	DKC 8144(IM 8479)	77.6	78.6	77.5	82.5	75.8	82.8	73.0	78.2	24.1	18.1	28.7	28.7	17.2	22.0	35.4	24.9
4	DKC 9144(IM8478)	80.1	80.1	77.5	79.5	75.3	84.4	75.7	78.9	26.1	18.8	26.2	28.7	17.2	24.5	33.9	25.0
5	Kuber shakthi	69.5	78.0	76.5	80.0	71.6	82.3	73.4	75.9	25.1	18.0	25.2	25.2	17.1	25.3	34.9	24.4
6	S-6750	74.9	80.8	78.0	81.5	71.8	79.9	72.2	77.0	23.2	17.7	26.6	26.6	17.2	26.8	33.9	24.6
CHECKS																	
7	PMH 4	77.1	79.7	77.0	80.5	80.6	89.6	78.5	80.4	24.0	17.3	25.6	25.6	17.1	20.8	29.6	22.8
8	HM9	71.8	78.5	77.0	81.0	73.9	81.6	68.5	76.0	23.2	17.8	23.8	26.3	17.1	19.3	31.1	22.6
9	HM10	71.1	80.2	81.0	82.5	73.8	81.9	68.3	77.0	24.2	18.0	24.3	25.8	17.2	21.0	31.4	23.1
10	BIO-9637	77.9	81.4	79.5	84.0	71.4	86.5	71.3	78.8	24.0	17.2	26.2	26.2	17.1	22.7	31.6	23.6
Loc. Mean		75.2	79.7	78.1	81.4	74.6	83.6	72.6	77.9	24.4	17.8	25.8	26.2	17.2	22.3	32.6	23.7
C.D. (5%)		0.97	-	2.66	3.03	-	0.62	1.09	2.56	0.74	-	2.84	4.43	-	1.58	1.22	1.42
C.V. (%)		0.75	-	1.98	2.17	-	0.43	0.88	3.06	1.77	-	6.41	9.84	-	4.13	2.19	5.58
F (Prob)		0.00	0.00	0.04	0.08	-	0.00	0.00	0.02	0.00	-	0.08	0.16	-	0.00	0.00	0.00
		STAND AT HARVEST ('000/ha)								DAYS TO 50% POLLEN SHED							
		ZN 3								ZN 3							
S.No.	PEDIGREE	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	Mean	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	Mean
1	AQH 9	62.2	65.3	50.8	58.6	64.6	58.6	58.7	59.8	50.7	50.0	51.7	49.0	70.0	48.7	54.3	53.5
2	CMH 11-582	61.1	63.2	46.9	54.7	66.7	54.8	61.5	58.4	55.3	51.0	55.0	53.0	72.3	50.0	58.3	56.4
3	DKC 8144(IM 8479)	66.0	63.5	45.6	56.7	65.6	57.1	63.2	59.7	56.3	51.3	54.3	52.3	72.0	49.3	58.0	56.2
4	DKC 9144(IM8478)	62.2	65.3	56.1	63.9	70.8	59.5	63.9	63.1	53.7	51.0	54.7	52.7	71.3	50.3	55.7	55.6
5	Kuber shakthi	64.6	62.5	55.8	64.7	65.6	59.5	58.0	61.5	55.3	52.0	55.0	53.0	72.7	50.0	58.0	56.6
6	S-6750	64.2	63.5	54.7	62.8	72.9	62.2	64.9	63.6	54.3	52.0	55.0	53.0	72.3	50.3	55.3	56.0
CHECKS																	
7	PMH 4	60.4	63.2	52.8	60.3	69.8	61.3	62.5	61.5	50.7	44.7	50.7	48.7	65.0	47.0	52.0	51.2
8	HM9	62.8	62.5	45.6	53.1	72.9	55.4	61.1	59.0	50.7	46.0	52.3	50.3	66.3	47.0	53.7	52.3
9	HM10	60.4	63.2	48.6	56.1	69.8	55.1	61.1	59.2	54.7	50.0	54.7	52.7	70.7	51.0	56.7	55.8
10	BIO-9637	60.8	64.6	54.4	62.2	66.7	55.4	61.1	60.7	50.3	50.3	54.3	52.3	71.7	49.7	54.3	54.7
Loc. Mean		62.5	63.7	51.1	59.3	68.5	57.9	61.6	60.7	53.2	49.8	53.8	51.7	70.4	49.3	55.6	54.8
C.D. (5%)		4.21	3.91	7.70	7.57	0.00	8.02	4.39	2.75	2.30	1.86	2.00	1.96	1.65	1.63	1.59	1.08
C.V. (%)		3.93	3.58	8.77	7.44	0.00	8.08	4.15	4.22	2.52	2.17	2.17	2.21	1.36	1.93	1.66	1.84
F (Prob)		0.13	0.78	0.04	0.04	0.00	0.46	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No.11 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% SILKING							DAYS TO 75% DRY HUSK								
		BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	ZN 3								
									Mean	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	Mean
1	AQH 9	52.7	53.3	53.7	51.0	74.7	53.3	59.3	56.9	87.3	88.7	84.3	80.7	114.7	86.7	90.0	90.3
2	CMH 11-582	57.3	54.0	56.7	54.7	76.7	52.0	62.7	59.1	90.3	90.0	83.3	82.7	116.7	87.0	91.3	91.6
3	DKC 8144(IM 8479)	58.3	54.0	56.3	54.3	76.3	52.7	62.7	59.2	90.3	88.7	83.7	82.0	116.7	78.7	94.0	90.6
4	DKC 9144(IM8478)	55.7	54.0	56.7	54.7	76.3	54.0	60.7	58.9	88.3	90.0	84.3	83.3	116.7	89.3	93.0	92.1
5	Kuber shakthi	57.3	55.0	57.0	55.0	77.3	54.0	61.7	59.6	91.3	91.3	86.0	85.0	118.0	93.0	97.3	94.6
6	S-6750	56.3	55.0	57.0	53.0	77.3	53.0	59.7	58.8	87.7	90.7	81.7	81.7	117.3	67.0	91.3	88.2
	CHECKS																
7	PMH 4	52.7	47.3	53.7	51.0	69.3	47.0	57.0	54.0	83.3	83.0	82.3	82.3	109.0	51.0	89.3	82.9
8	HM9	52.7	49.0	55.3	52.3	71.0	47.0	59.0	55.2	86.3	85.0	81.3	81.3	110.7	51.0	91.0	83.8
9	HM10	56.7	52.0	57.3	54.3	76.3	51.0	62.3	58.6	89.7	90.0	85.3	85.3	116.7	54.0	97.7	88.4
10	BIO-9637	52.3	53.0	57.0	53.0	75.7	51.7	59.0	57.4	86.3	89.0	81.0	81.3	115.3	54.0	93.0	85.7
	Loc. Mean	55.2	52.7	56.1	53.3	75.1	51.6	60.4	57.8	88.1	88.6	83.3	82.6	115.2	71.2	92.8	88.8
	C.D. (5%)	2.30	1.64	2.07	1.98	1.77	1.37	2.10	1.33	1.68	1.91	2.72	1.88	1.79	16.65	2.91	6.84
	C.V. (%)	2.43	1.82	2.15	2.16	1.38	1.55	2.03	2.14	1.11	1.25	1.90	1.33	0.91	13.64	1.83	7.18
	F (Prob)	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.02
S.No.	PEDIGREE	PLANT HEIGHT(cm)							EAR HEIGHT(cm)								
		BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	ZN 3								
									Mean	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	Mean
1	AQH 9	180.0	152.0	168.9	149.7	184.0	212.1	158.3	172.1	65.4	65.1	86.2	77.7	95.7	107.9	76.7	82.1
2	CMH 11-582	205.4	176.2	196.5	177.3	207.0	220.9	176.7	194.3	90.3	78.0	91.8	83.3	108.0	107.5	90.0	92.7
3	DKC 8144(IM 8479)	197.2	181.7	193.7	174.5	209.7	213.4	183.3	193.4	89.2	74.8	95.8	87.3	105.7	70.5	88.3	87.4
4	DKC 9144(IM8478)	208.4	168.5	192.2	173.0	197.3	217.5	183.3	191.5	92.7	72.7	106.7	98.2	104.7	106.3	98.3	97.1
5	Kuber shakthi	195.0	155.0	182.9	163.7	183.7	215.9	165.0	180.1	90.6	65.8	92.8	84.3	93.7	107.2	100.0	90.6
6	S-6750	188.4	176.0	185.5	166.3	204.0	217.3	161.7	185.6	84.9	68.2	91.2	82.7	96.0	106.3	71.7	85.8
	CHECKS																
7	PMH 4	185.3	167.5	177.7	158.5	195.7	204.4	158.3	178.2	76.6	73.5	98.7	90.2	101.3	102.3	71.7	87.8
8	HM9	178.0	158.2	167.7	148.5	187.3	194.3	156.7	170.1	63.2	62.5	86.8	78.3	90.3	89.0	71.7	77.4
9	HM10	215.8	170.2	189.0	169.8	201.7	218.6	180.0	192.2	78.4	62.2	100.2	91.7	94.0	109.0	90.0	89.3
10	BIO-9637	227.6	180.5	203.0	183.8	208.3	219.3	186.7	201.3	93.7	75.6	103.2	94.7	111.7	103.9	96.7	97.0
	Loc. Mean	198.1	168.6	185.7	166.5	197.9	213.4	171.0	185.9	82.5	69.9	95.3	86.8	100.1	101.0	85.5	88.7
	C.D. (5%)	18.74	7.73	12.32	12.32	2.77	16.51	19.59	6.23	18.58	5.49	10.73	10.73	3.86	32.04	23.09	7.80
	C.V. (%)	5.51	2.67	3.87	4.31	0.82	4.51	6.68	3.13	13.13	4.58	6.56	7.20	2.25	18.49	15.74	8.20
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.08	0.01	0.00	0.02	0.00	0.01	0.01	0.00	0.31	0.07	0.00

TABLE No. 12: PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT ARBHAVI, COIMBATORE, DHARWAD, DHULE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, NASIK, PATANCHERU, VAGARAI, VRDCD IN AVT1 TRIAL No. 66Z4(AVT1-M-Z4) DURING KHARIF (2014)

Sl No	PEDIGREE	COB YIELD (kg/ha) AT 15% MOISTURE																									
		ARBH	R	COIM	R	DHAR	R	DHUL	R	HYDE	R	KARI	R	KOLH	R	MAND	R	NASI	R	PATA	R	VAGA	R	VRDC	R	MEAN	R
1	AQH 8	7468	9	7540	8	6733	7	4334	9	5016	11	5549	9	2753	10	7512	9	9261	6	4125	10	5629	4	8410	7	6194	9
2	DKC 9144(IM8478)	12583	2	9266	4	6733	8	4381	8	9354	3	9036	1	4678	3	9847	3	10174	3	5905	2	5791	3	13436	1	8432	1
3	HTMH 5402	13818	1	10719	2	7356	3	4509	6	9182	4	8312	4	5339	1	11672	1	7131	10	6010	1	6285	1	10442	6	8398	2
4	JKMH 4545	11444	4	11055	1	7378	2	6196	2	10004	1	7129	7	3026	9	8640	6	10443	2	5426	4	4792	9	7594	8	7761	5
5	LG 32.82	10572	5	9390	3	7711	1	5125	5	9738	2	8501	3	4883	2	10169	2	7091	11	5249	5	5242	6	11315	4	7916	4
6	FCH 11231	12155	3	7920	6	7111	4	5182	4	8295	5	8034	5	4418	4	9620	5	11443	1	5526	3	6167	2	11871	3	8145	3
CHECKS																											
7	PMH4	8808	7	9120	5	6111	10	6719	1	7676	7	8560	2	4401	5	8349	7	8765	8	4524	7	5139	7	7364	9	7128	7
8	HM9	8363	8	6425	10	6489	9	3150	11	6421	10	4656	11	2325	11	6897	11	8798	7	4090	11	3267	10	7037	10	5660	11
9	HM10	7420	10	6937	9	7044	5	3844	10	7486	8	5114	10	3568	7	7149	10	10102	4	4315	9	3238	11	11014	5	6436	8
10	BIO-9637	9062	6	7680	7	6978	6	5693	3	8241	6	6851	8	3789	6	9659	4	10081	5	4492	8	5328	5	12204	2	7505	6
11	HM8	5678	11	6057	11	5133	11	4482	7	6939	9	7346	6	3245	8	7565	8	8137	9	4700	6	5035	8	4985	11	5775	10
Location Mean		9761		8374		6798		4874		8032		7190		3857		8825		9221		4942		5083		9607		7214	
C.D. (5%)		1053		2229		1500		1098		1434		689		681		705		2773		590		804		2109		1306	
C.V. (%)		6.32		15.58		12.91		13.18		10.45		5.61		10.33		4.68		17.6		6.99		9.26		12.85		-	
F (Prob)		0		0.002		0.138		0		0		0		0		0		0.06		0		0		0		-	
Plot Size		9.6		9.6		12		9.6		12		12		12		11.2		9.6		12		9.6		9.6		-	
AGRONOMY DATA																											
Sowing Date		14-07		15-07		19-07		22-07		10-07		28-06		18-07		29-07		28-07		25-06		2-07		23-06		-	
Harvest Date		31-10		22-10		-		24-11		22-10		24-10		25-11		19-12		13-11		18-10		18-11		17-11		-	
Irrigation Nos		8		9		-		-		4		-		-		7		-		-		9		2		-	
Fertilizer Applied N		150		150		-		120		200		200		120		150		120		-		150		150		-	
Fertilizer Applied P		75		75		-		60		60		60		60		75		60		-		75		75		-	
Fertilizer Applied K		37.5		75		-		40		50		50		40		40		40		-		75		37.5		-	

TABLE No. 12 (Cont..)

SI No	GRAIN YIELD % SUPERIORITY OVER THE PMH4												GRAIN YIELD % SUPERIORITY OVER THE HM9													
	ZN 4												ZN 4													
PEDIGREE	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	MEAN	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	MEAN
1 AQH 8	-	-	10.2	-	-	-	-	-	5.7	-	9.5	14.2	-	-	17.4	3.8	37.6	-	19.2	18.4	8.9	5.3	0.9	72.3	19.5	9.4
2 DKC 9144(IM8478)	42.9	1.6	10.2	-	21.9	5.6	6.3	17.9	16.1	30.5	12.7	82.5	18.3	50.5	44.2	3.8	39.1	45.7	94.1	101	42.8	15.6	44.4	77.2	90.9	49
3 HTMH 5402	56.9	17.5	20.4	-	19.6	-	21.3	39.8	-	32.8	22.3	41.8	17.8	65.2	66.8	13.4	43.1	43	78.5	130	69.2	-	47	92.4	48.4	48.4
4 JKMH 4545	29.9	21.2	20.7	-	30.3	-	-	3.5	19.2	19.9	-	3.1	8.9	36.8	72.1	13.7	96.7	55.8	53.1	30.2	25.3	18.7	32.7	46.7	7.9	37.1
5 LG 32.82	20	3	26.2	-	26.9	-	10.9	21.8	-	16	2	53.7	11	26.4	46.1	18.8	62.7	51.7	82.6	110	47.4	-	28.3	60.4	60.8	39.9
6 FCH 11231	38	-	16.4	-	8.1	-	0.4	15.2	30.6	22.1	20	61.2	14.3	45.3	23.3	9.6	64.5	29.2	72.6	90	39.5	30.1	35.1	88.8	68.7	43.9
CHECKS																										
7 PMH4	-	-	-	-	-	-	-	-	-	-	-	-	-	5.3	42	-	113	19.5	83.9	89.3	21.1	-	10.6	57.3	4.6	25.9
8 HM9	-	-	6.2	-	-	-	-	-	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 HM10	-	-	15.3	-	-	-	-	-	15.3	-	-	49.6	-	-	8	8.6	22	16.6	9.8	53.5	3.7	14.8	5.5	-	56.5	13.7
10 BIO-9637	2.9	-	14.2	-	7.4	-	-	15.7	15	-	3.7	65.7	5.3	8.4	19.5	7.5	80.7	28.4	47.1	62.9	40	14.6	9.8	63.1	73.4	32.6
11 HM8	-	-	-	-	-	-	-	-	-	3.9	-	-	-	-	-	-	42.3	8.1	57.8	39.6	9.7	-	14.9	54.1	-	2

SI No	GRAIN YIELD % SUPERIORITY OVER THE HM10												GRAIN YIELD % SUPERIORITY OVER THE BIO-9637													
	ZN 4												ZN 4													
PEDIGREE	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	MEAN	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	MEAN
1 AQH 8	0.7	8.7	-	12.8	-	8.5	-	5.1	-	-	73.8	-	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-
2 DKC 9144(IM8478)	69.6	33.6	-	14	24.9	76.7	31.1	37.7	0.7	36.8	78.8	22	31	38.8	20.7	-	-	13.5	31.9	23.5	1.9	0.9	31.4	8.7	10.1	12.4
3 HTMH 5402	86.2	54.5	4.4	17.3	22.6	62.5	49.6	63.3	-	39.3	94.1	-	30.5	52.5	39.6	5.4	-	11.4	21.3	40.9	20.8	-	33.8	18	-	11.9
4 JKMH 4545	54.2	59.4	4.7	61.2	33.6	39.4	-	20.9	3.4	25.7	48	-	20.6	26.3	44	5.7	8.8	21.4	4.1	-	-	3.6	20.8	-	-	3.4
5 LG 32.82	42.5	35.4	9.5	33.3	30.1	66.2	36.8	42.2	-	21.6	61.9	2.7	23	16.7	22.3	10.5	-	18.2	24.1	28.9	5.3	-	16.8	-	-	5.5
6 FCH 11231	63.8	14.2	0.9	34.8	10.8	57.1	23.8	34.6	13.3	28.1	90.5	7.8	26.6	34.1	3.1	1.9	-	0.7	17.3	16.6	-	13.5	23	15.7	-	8.5
CHECKS																										
7 PMH4	18.7	31.5	-	74.8	2.5	67.4	23.3	16.8	-	4.8	58.7	-	10.8	-	18.8	-	18	-	24.9	16.2	-	-	0.7	-	-	-
8 HM9	12.7	-	-	-	-	-	-	-	-	-	0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 HM10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	0.2	-	-	-	-
10 BIO-9637	22.1	10.7	-	48.1	10.1	34	6.2	35.1	-	4.1	64.5	10.8	16.6	-	-	-	-	-	-	-	-	-	-	-	-	-
11 HM8	-	-	-	16.6	-	43.6	-	5.8	-	8.9	55.5	-	-	-	-	-	-	-	7.2	-	-	-	4.6	-	-	-

TABLE No. 12 (Cont..)

COB YIELD % SUPERIORITY OVER THE HM8														
SI													ZN 4	
No	PEDIGREE	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	MEAN
1	AQH 8	31.5	24.5	31.2	-	-	-	-	-	13.8	-	11.8	68.7	7.3
2	DKC 9144(IM8478)	121.6	53	31.2	-	34.8	23	44.1	30.2	25	25.7	15	169.5	46
3	HTMH 5402	143.4	77	43.3	0.6	32.3	13.2	64.5	54.3	-	27.9	24.8	109.5	45.4
4	JKMH 4545	101.6	82.5	43.7	38.2	44.2	-	-	14.2	28.3	15.5	-	52.4	34.4
5	LG 32.82	86.2	55	50.2	14.3	40.3	15.7	50.5	34.4	-	11.7	4.1	127	37.1
6	FCH 11231	114.1	30.8	38.5	15.6	19.5	9.4	36.1	27.2	40.6	17.6	22.5	138.2	41
CHECKS														
7	PMH4	55.1	50.6	19	49.9	10.6	16.5	35.6	10.4	7.7	-	2.1	47.7	23.4
8	HM9	47.3	6.1	26.4	-	-	-	-	-	8.1	-	-	41.2	-
9	HM10	30.7	14.5	37.2	-	7.9	-	10	-	24.1	-	-	121	11.4
10	BIO-9637	59.6	26.8	35.9	27	18.8	-	16.7	27.7	23.9	-	5.8	144.8	30
11	HM8	-	-	-	-	-	-	-	-	-	-	-	-	-
STAND AT HARVEST ('000/ha)														ZN 4
S.N	PEDIGREE	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	Mean
1	AQH 8	72.6	66.7	46.7	81.3	59.4	46.7	53.1	59.5	78.1	31.7	58.3	65.3	59.9
2	DKC 9144(IM8478)	77.8	66.7	47.2	79.9	70.3	53.9	53.3	61.6	80.2	35.3	55.2	68.4	62.5
3	HTMH 5402	88.9	66.7	49.4	81.6	63.9	52.2	53.1	65.5	80.9	33.1	55.2	70.5	63.4
4	JKMH 4545	73.3	66.7	45.0	81.6	61.7	47.8	52.2	59.2	82.6	33.9	54.5	65.3	60.3
5	LG 32.82	77.1	66.0	45.6	82.6	66.7	46.7	53.3	59.8	79.9	33.1	58.7	74.7	62.0
6	FCH 11231	70.1	66.3	43.9	80.9	51.1	48.3	52.8	59.8	81.6	33.6	52.8	69.8	59.3
CHECKS														
7	PMH4	75.7	66.7	42.5	82.6	61.1	46.9	52.2	56.8	81.3	35.0	58.7	59.0	59.9
8	HM9	73.6	65.6	42.5	82.3	61.9	45.0	53.3	59.5	80.6	32.8	51.0	66.3	59.5
9	HM10	72.9	66.0	39.7	82.3	58.3	43.1	52.8	61.6	81.3	33.3	54.2	66.3	59.3
10	BIO-9637	76.0	66.7	46.9	81.9	61.9	48.6	51.1	60.4	79.5	33.6	55.9	64.9	60.6
11	HM8	68.4	64.2	41.1	83.0	57.8	39.2	51.9	59.2	78.5	33.3	56.6	66.7	58.3
Loc. Mean		75.1	66.2	44.6	81.8	61.3	47.1	52.7	60.3	80.4	33.5	55.6	67.0	60.5
C.D. (5%)		8.75	0.63	6.44	2.14	7.73	1.95	2.33	4.95	4.01	2.75	7.83	8.02	2.18
C.V. (%)		6.84	0.55	8.47	1.54	7.41	2.43	2.60	4.82	2.93	4.81	8.28	7.02	4.47
F (Prob)		0.01	0.00	0.12	0.19	0.01	0.00	0.63	0.17	0.49	0.38	0.59	0.08	0.00
DAYS TO 50% POLLEN SHED														ZN 4
S.N	PEDIGREE	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	Mean
1	AQH 8	59.7	52.0	61.3	53.0	58.7	53.0	65.0	56.3	61.0	52.0	50.3	60.5	56.9
2	DKC 9144(IM8478)	59.3	52.0	62.0	50.3	57.3	51.7	67.0	56.0	60.0	52.0	50.7	59.0	56.4
3	HTMH 5402	59.7	52.0	61.7	54.0	57.7	52.0	65.0	55.7	61.7	52.3	52.7	59.0	56.9
4	JKMH 4545	56.3	49.7	59.3	45.3	54.3	51.0	64.0	54.0	59.0	50.0	49.7	57.0	54.1
5	LG 32.82	59.0	52.3	61.0	53.0	57.7	52.3	65.0	55.7	61.0	51.7	51.7	59.5	56.7
6	FCH 11231	62.0	53.7	63.3	56.0	60.3	54.0	70.0	58.3	62.0	56.0	52.7	61.5	59.2
CHECKS														
7	PMH4	56.3	51.3	58.0	48.7	55.7	51.3	59.7	53.7	59.7	49.3	49.0	57.5	54.2
8	HM9	57.3	51.7	58.7	47.0	56.0	51.0	70.0	54.0	60.0	48.7	48.0	57.0	54.9
9	HM10	59.3	52.3	59.7	52.7	57.3	50.7	65.0	55.7	60.7	51.3	51.0	60.5	56.3
10	BIO-9637	58.3	53.0	59.3	48.3	57.0	51.3	66.0	54.0	60.3	52.0	47.7	57.5	55.4
11	HM8	58.7	52.3	61.7	54.3	58.0	51.0	59.0	56.0	59.7	51.3	52.3	59.0	56.1
Loc. Mean		58.7	52.0	60.5	51.2	57.3	51.8	65.1	55.4	60.5	51.5	50.5	58.9	56.1
C.D. (5%)		1.25	0.97	1.42	0.64	1.14	1.70	2.14	1.62	1.80	1.18	1.57	1.21	1.12
C.V. (%)		1.25	1.09	1.38	0.74	1.17	1.92	1.93	1.72	1.75	1.34	1.82	1.21	2.46
F (Prob)		0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.06	0.00	0.00	0.00	0.00

TABLE No. 12 (Cont..)

S.No.	PEDIGREE	GRAIN SHELLING %										MOISTURE % AT HARVEST													
		ARBH	COIM	DHUL	HYDE	KARI	KOLH	MAND	NASI	VAGA	VRDC	Mean	ARBH	COIM	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	Mean	
1	AQH 8	80.9	76.8	78.6	75.1	75.6	72.0	82.0	76.8	78.0	85.3	78.1	27.1	24.4	12.3	21.9	7.0	16.2	15.6	13.6	28.4	18.5	11.6	17.9	
2	DKC 9144(IM8478)	81.2	78.9	77.2	76.5	77.8	78.1	81.0	76.2	77.6	85.3	79.0	28.0	28.1	12.0	24.3	8.7	17.5	15.5	8.2	27.6	21.0	12.1	18.4	
3	HTMH 5402	82.9	81.8	76.2	76.3	78.8	81.1	82.7	71.7	77.2	87.0	79.6	30.0	25.9	12.2	25.2	12.4	17.7	17.3	14.7	27.8	22.4	12.5	19.8	
4	JKMH 4545	83.0	78.8	81.2	77.7	79.8	84.2	81.2	85.4	75.9	85.7	81.3	26.1	23.1	12.1	19.6	6.8	15.7	15.8	9.6	25.9	21.0	12.7	17.1	
5	LG 32.82	78.5	78.0	78.4	72.5	78.4	75.7	81.5	79.6	77.9	83.3	78.4	26.5	22.7	11.6	20.0	6.3	16.4	15.7	11.3	24.1	23.0	12.6	17.3	
6	FCH 11231	82.3	79.7	79.0	77.9	76.3	80.9	79.7	75.3	78.9	86.7	79.7	25.3	26.9	16.0	19.8	12.2	17.8	15.1	8.5	28.5	21.7	12.7	18.6	
CHECKS																									
7	PMH4	87.1	83.0	83.8	80.4	84.7	83.0	81.4	68.5	77.7	87.8	81.7	23.6	23.7	15.3	23.0	4.7	16.3	15.4	15.7	26.8	22.6	12.5	18.1	
8	HM9	84.1	76.8	79.6	74.0	77.0	81.1	83.1	85.5	76.2	85.8	80.3	24.0	20.9	11.4	19.2	6.8	16.8	15.0	12.8	25.7	20.0	12.1	16.8	
9	HM10	78.0	76.8	77.9	72.8	74.2	75.9	81.0	67.5	74.5	83.6	76.2	25.0	22.4	12.8	21.0	8.9	16.6	15.7	9.0	28.1	18.9	12.7	17.4	
10	BIO-9637	82.9	81.2	80.6	71.9	75.8	78.4	81.7	69.8	78.0	87.2	78.7	24.3	23.2	12.2	18.8	10.3	16.5	15.8	13.6	26.4	20.4	11.9	17.6	
11	HM8	86.1	81.0	82.8	76.4	86.5	83.3	82.8	64.7	78.0	83.6	80.5	21.3	21.1	11.6	18.3	4.9	14.4	15.0	15.5	24.8	20.9	12.3	16.4	
	Loc. Mean	82.4	79.3	79.6	75.6	78.6	79.4	81.6	74.6	77.3	85.6	79.4	25.5	23.8	12.7	21.0	8.1	16.5	15.6	12.0	26.7	20.9	12.3	17.8	
	C.D. (5%)	2.03	0.95	3.58	2.88	1.74	0.40	1.77	3.83	1.95	3.83	2.69	1.56	1.01	1.22	3.44	1.70	1.04	0.58	3.47	2.04	1.33	0.91	1.44	
	C.V. (%)	1.44	0.70	2.64	2.24	1.30	0.30	1.27	3.01	1.48	2.63	3.82	3.58	2.49	5.67	9.62	12.32	3.70	2.17	16.96	4.49	3.74	4.31	9.59	
	F (Prob)	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.00	0.01	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	
DAYS TO 50% SILKING												DAYS TO 75% DRY HUSK													
S.No.	PEDIGREE																								
		ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	Mean	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	VAGA	VRDC	Mean
1	AQH 8	61.7	55.0	63.7	55.0	62.7	54.7	66.0	59.7	62.3	54.0	53.3	62.0	59.2	95.0	92.7	84.3	93.7	90.7	104.0	99.3	99.0	92.0	112.0	96.3
2	DKC 9144(IM8478)	61.3	55.0	64.3	52.7	59.3	53.7	68.0	58.0	61.0	54.0	53.3	60.0	58.4	95.0	95.3	82.7	94.3	88.7	105.0	97.3	99.3	92.3	109.5	96.0
3	HTMH 5402	60.3	55.0	63.7	57.0	59.7	53.7	66.0	57.7	62.7	54.3	55.0	60.0	58.8	95.0	95.3	85.0	94.7	88.7	104.0	98.7	101.0	94.7	108.0	96.5
4	JKMH 4545	55.7	52.7	61.0	48.0	55.7	53.0	65.0	55.7	60.7	52.0	52.7	58.0	55.8	92.0	91.3	68.0	89.3	88.0	103.0	96.7	100.0	92.0	104.0	92.4
5	LG 32.82	59.3	55.3	63.0	55.3	58.7	54.3	66.0	59.0	62.0	53.7	54.0	61.0	58.5	95.3	91.0	84.3	93.3	89.0	104.0	96.0	105.3	94.0	104.5	95.7
6	FCH 11231	61.7	56.0	66.0	58.7	61.3	56.0	71.0	59.7	63.3	58.0	55.0	61.5	60.7	96.0	91.0	87.3	95.3	91.7	109.0	98.0	103.0	93.7	110.5	97.6
CHECKS																									
7	PMH4	57.3	53.3	60.3	51.3	57.7	53.3	60.7	55.0	61.0	51.3	51.7	59.0	56.0	93.3	94.0	82.7	93.0	89.0	102.0	97.3	100.3	90.7	108.0	95.0
8	HM9	59.0	54.0	60.3	49.7	58.7	53.0	71.0	55.3	61.0	50.7	51.0	58.5	56.8	94.0	93.7	84.0	93.3	88.0	109.0	98.7	99.0	89.7	109.0	95.8
9	HM10	61.0	55.0	61.0	55.0	60.0	52.7	66.0	58.3	62.0	53.3	54.0	61.0	58.3	95.0	93.0	84.0	93.7	87.7	104.0	98.7	100.7	92.3	109.0	95.8
10	BIO-9637	59.7	56.0	61.3	51.0	58.7	53.3	67.0	56.0	62.0	54.0	50.7	59.0	57.4	96.0	93.3	81.3	92.3	89.0	105.0	96.0	100.0	89.7	109.0	95.2
11	HM8	58.3	55.0	62.7	56.7	60.0	53.0	60.0	58.3	61.0	53.3	55.0	60.0	57.8	95.0	87.7	84.7	87.0	88.0	98.0	96.0	110.3	95.3	109.5	95.1
	Loc. Mean	59.6	54.8	62.5	53.7	59.3	53.7	66.1	57.5	61.7	53.5	53.2	60.0	58.0	94.7	92.6	82.6	92.7	88.9	104.3	97.5	101.6	92.4	108.5	95.6
	C.D. (5%)	1.55	0.90	1.43	1.07	1.45	1.65	2.14	1.69	1.86	1.18	2.07	1.22	1.18	0.84	4.12	8.21	1.28	2.57	0.89	2.89	1.62	2.54	4.58	2.20
	C.V. (%)	1.52	0.96	1.34	1.17	1.44	1.80	1.90	1.73	1.77	1.29	2.29	1.19	2.51	0.52	2.61	5.84	0.81	1.70	0.50	1.74	0.93	1.62	2.48	2.60
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.00	0.10	0.00	0.18	0.00	0.00	0.05	0.01

TABLE No. 12 (Cont..)

S.No. PEDIGREE	PLANT HEIGHT(cm)													EAR HEIGHT(cm)													
													ZN 4													ZN 4	
	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	Mean	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	Mean	
1 AQH 8	168.5	172.3	214.0	243.3	209.0	148.3	135.0	205.3	222.7	199.7	156.0	178.5	187.7	80.5	98.1	106.0	99.7	77.7	71.7	60.0	99.3	104.3	89.3	65.9	72.8	85.4	
2 DKC 9144(IM8478)	193.5	183.5	208.7	252.0	240.3	176.7	160.0	219.3	240.5	199.0	145.9	195.3	201.2	103.0	108.1	105.3	119.0	118.3	101.7	65.0	110.3	118.0	95.3	70.5	85.5	100.0	
3 HTMH 5402	199.5	170.4	229.0	237.3	237.7	155.0	148.3	216.7	241.0	214.7	161.6	186.7	199.8	108.0	88.8	120.0	107.0	103.7	80.0	66.7	97.7	113.7	104.3	71.2	82.0	95.3	
4 JKMH 4545	197.5	175.5	232.3	234.0	249.3	161.7	135.0	214.0	238.6	205.0	129.9	187.9	196.7	98.0	103.6	71.7	90.3	97.3	70.0	43.3	110.0	105.3	91.0	58.9	63.7	83.6	
5 LG 32.82	175.0	185.6	205.7	262.0	237.7	165.0	158.3	205.3	237.7	202.7	158.2	179.0	197.7	85.0	96.1	101.7	116.7	95.3	85.0	70.0	97.7	106.7	99.3	72.3	75.9	91.8	
6 FCH 11231	249.0	192.9	244.7	285.0	262.7	196.7	163.3	218.0	264.5	217.0	176.2	212.8	223.6	125.0	110.8	124.7	130.0	120.0	103.3	61.7	108.3	126.0	101.3	87.5	112.8	109.3	
CHECKS																											
7 PMH4	154.5	172.5	191.7	223.7	218.7	158.3	141.7	215.3	221.5	208.7	147.2	170.8	185.4	86.0	97.7	102.3	96.7	87.3	73.3	51.7	104.7	106.0	92.7	66.8	74.9	86.7	
8 HM9	186.0	165.4	214.3	216.7	215.7	150.0	136.7	196.7	219.5	189.3	126.1	180.8	183.1	97.0	94.4	107.0	87.0	86.0	71.7	60.0	98.3	96.3	81.7	59.1	68.2	83.9	
9 HM10	194.5	162.1	231.0	241.7	231.3	170.0	160.0	208.0	236.9	216.0	157.5	193.6	200.2	95.5	91.3	122.7	112.3	105.3	80.0	65.0	101.0	106.3	98.3	74.3	75.8	94.0	
10 BIO-9637	175.0	177.9	228.0	252.3	242.0	195.0	160.0	182.0	247.4	211.0	166.5	188.1	202.1	94.5	103.5	124.7	81.0	97.7	100.0	73.3	100.7	109.0	93.0	85.9	85.4	95.7	
11 HM8	181.0	168.1	212.3	262.3	234.0	170.0	146.7	209.0	218.0	198.7	157.5	178.6	194.7	86.5	93.5	94.3	108.7	86.3	75.0	61.7	93.3	88.0	95.3	61.2	73.2	84.8	
Loc. Mean	188.5	175.1	219.2	246.4	234.4	167.9	149.5	208.2	235.3	205.6	153.0	186.5	197.5	96.3	98.7	107.3	104.4	97.7	82.9	61.7	101.9	107.2	94.7	70.3	79.1	91.9	
C.D. (5%)	9.07	7.18	27.07	8.59	17.57	8.82	32.07	38.93	10.77	29.25	18.91	13.57	8.55	8.68	6.61	29.55	8.68	9.79	6.98	18.81	17.23	11.51	21.43	13.73	12.28	6.68	
C.V. (%)	2.82	2.41	7.25	2.05	4.40	3.08	12.59	10.98	2.69	8.35	7.26	4.27	5.35	5.29	3.93	16.17	4.88	5.88	4.95	17.91	9.92	6.30	13.29	11.46	9.11	8.99	
F (Prob)	0.00	0.00	0.03	0.00	0.00	0.00	0.43	0.72	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.15	0.53	0.00	0.68	0.00	0.00	0.00	

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TABLE No. 13: PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSAWARA, BHILODA, CHHINDWARA, DAHOD, GODHRA, JAGDALPUR, JHABUA, KOTA, RAIPUR, UDAIPUR, UJJAIN IN AVT1 & 2 TRIAL No. 6670Z5(AVT1-M-Z5 &AVT2-M-Z5) DURING KHARIF(2014)

SI No PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																		ZN 5							
	AMBI	R	BANS	R	BHIL	R	CHHI	R	DAHO	R	GODH	R	JAGD	R	JHAB	R	KOTA	R	RAIP	R	UDAI	R	UJJA	R	MEAN	R
1 BH 41150	4723	14	4919	5	5049	12	7682	1	5575	12	2481	21	4360	15	3444	21	4117	1	3260	18	4016	21	5860	4	4624	13
2 CMH 10-547	5947	7	5263	3	5437	7	5984	12	6429	4	7069	3	5613	7	4282	15	2926	9	4955	2	4805	13	5387	7	5341	4
3 CMH 11-617	6110	6	3902	9	5994	3	4214	19	5940	10	6451	6	5796	6	4974	3	3423	5	4127	11	5420	9	5364	8	5143	7
4 DKC 8144(IM8479)	6591	3	3966	8	5684	5	7319	4	6924	1	7128	2	6223	3	4373	14	3519	3	4528	6	5702	8	5303	10	5605	1
5 DKC 9144(IM8478)	7126	2	5527	1	6130	2	5057	16	6269	5	6627	5	6749	1	4145	17	2948	8	3964	14	4158	19	5887	3	5382	3
6 DKC 9149(IM8581)	3926	18	3462	14	5579	6	5047	17	5832	11	4750	13	3702	17	4693	7	2735	11	4785	3	4163	18	4958	14	4469	16
7 EH-2205	3842	19	4885	6	2756	21	6099	11	4974	17	4929	11	3647	19	4031	19	1648	20	3320	17	6560	3	4308	21	4250	18
8 EH-2240	4555	15	3354	15	4158	13	7664	2	4472	18	5011	10	4436	14	5136	2	2674	12	4123	12	6133	5	5195	12	4743	12
9 EHL 3412	4148	16	3874	10	3877	17	7012	6	5497	13	4196	15	4018	16	5216	1	3273	6	4143	10	4422	17	5418	5	4591	15
10 HTMH 5402	7201	1	3119	17	5800	4	7195	5	5971	8	5506	8	6659	2	4147	16	2377	14	4714	4	6839	1	5896	2	5452	2
11 JKMH 4545	5093	11	4359	7	4035	14	7514	3	6554	2	6633	4	4723	12	4887	4	1900	19	6029	1	5403	10	5353	9	5207	6
12 KMH-5951	4056	17	2694	19	3216	19	3873	21	5052	16	6097	7	3685	18	4069	18	1901	18	3539	15	5813	7	5087	13	4090	19
13 LG 32.82	5593	9	4951	4	5118	11	4485	18	6102	6	3270	18	5212	9	4871	5	2761	10	4418	8	6713	2	4423	20	4826	9
14 PRMH-2177	4963	13	2779	18	4012	15	5771	15	5399	14	5047	9	4656	13	4660	10	1387	21	3417	16	5064	12	5403	6	4380	17
15 KDMH 2705	5650	8	5445	2	5131	10	6900	7	5235	15	4809	12	5324	8	4670	9	2403	13	4705	5	4521	16	4914	15	4975	8
16 KNMH 4010131	4964	12	3255	16	5224	9	6594	8	6472	3	4595	14	4731	11	4582	12	2076	15	3996	13	6382	4	4531	19	4784	10
17 DKC 9145(IJ8533)	6522	5	3784	11	6285	1	4154	20	6061	7	7500	1	6194	5	4641	11	3819	2	4455	7	4056	20	6482	1	5329	5
CHECKS																										
18 PMH4	5165	10	3656	12	5282	8	6316	10	5964	9	3713	17	4822	10	4441	13	3465	4	4311	9	5346	11	4741	17	4768	11
19 HM9	3575	20	2658	20	2850	20	5866	13	3958	21	2728	19	3265	21	3483	20	2018	16	3115	20	4521	15	4844	16	3574	21
20 HM10	3574	21	2520	21	3604	18	5854	14	4396	19	2716	20	3319	20	4770	6	3002	7	2925	21	4549	14	5215	11	3870	20
21 BIO-9637	6591	4	3639	13	3930	16	6576	9	4031	20	3943	16	6221	4	4687	8	1932	17	3207	19	5979	6	4740	18	4623	14
Location Mean	5234		3905		4721		6056		5577		5010		4922		4486		2681		4097		5265		5205		4763	
C.D. (5%)	866		608		1304		1720		1095		482		910		309		332		985		885		132		802	
C.V. (%)	10.02		9.42		16.73		17.2		11.89		5.83		11.19		4.17		7.5		14.56		10.18		1.54		-	
F (Prob)	0		0		0		0		0		0		0		0		0		0		0		0		0	
Plot Size	18		14.4		18		18		14.4		14.4		18		13.5		14.4		18		9.6		18		-	
AGRONOMY DATA																										
Sowing Date	3-07		13-07		24-06		3-07		9-07		15-07		10-07		11-07		23-07		7-03		7-04		18-07		-	
Harvest Date	-		17-10		-		19-11		14-10		4-11		-		29-10		6-11		16-10		13-10		6-11		-	
Irrigation Nos	-		-		-		-		1		-		-		-		2		-		1		-		-	
Fertilizer Applied N	120		150		-		120		100		100		120		100		90		100		120		120		-	
Fertilizer Applied P	60		80		-		60		50		50		60		60		30		60		90		80		-	
Fertilizer Applied K	40		-		-		40		-		-		40		40		-		40		-		60		-	

TABLE No. 13 (Cont..)

SI	GRAIN YIELD % SUPERIORITY OVER THE PMH4													GRAIN YIELD % SUPERIORITY OVER THE HM9															
	No	PEDIGREE	AMBI	BANS	BHIL	CHHI	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	MEAN	AMBI	BANS	BHIL	CHHI	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	MEAN	
1	BH 41150	-	34.5	-	21.6	-	-	-	-	18.8	-	-	23.6	-	32.1	85	77.1	31	40.8	-	33.5	-	104	4.7	-	21	29.4		
2	CMH 10-547	15.1	44	2.9	-	7.8	90.4	16.4	-	-	14.9	-	13.6	12	66.4	98	90.8	2	62.4	159.1	71.9	22.9	45	59.1	6.3	11.2	49.5		
3	CMH 11-617	18.3	6.7	13.5	-	-	73.7	20.2	12	-	-	1.4	13.1	7.9	70.9	46.8	110.3	-	50.1	136.5	77.5	42.8	69.6	32.5	19.9	10.7	43.9		
4	DKC 8144(IM8479)	27.6	8.5	7.6	15.9	16.1	92	29.1	-	1.6	5	6.7	11.9	17.5	84.4	49.2	99.4	24.8	74.9	161.3	90.6	25.5	74.4	45.3	26.1	9.5	56.8		
5	DKC 9144(IM8478)	38	51.2	16.1	-	5.1	78.5	40	-	-	-	-	24.2	12.9	99.4	107.9	115.1	-	58.4	142.9	106.7	19	46.1	27.2	-	21.5	50.6		
6	DKC 9149(IM8581)	-	-	5.6	-	-	27.9	-	5.7	-	11	-	4.6	-	9.8	30.2	95.8	-	47.3	74.1	13.4	34.7	35.5	53.6	-	2.4	25.1		
7	EH-2205	-	33.6	-	-	-	32.7	-	-	-	-	22.7	-	-	7.5	83.8	-	4	25.7	80.7	11.7	15.7	-	6.6	45.1	-	18.9		
8	EH-2240	-	-	-	21.3	-	35	-	15.6	-	-	14.7	9.6	-	27.4	26.2	45.9	30.6	13	83.7	35.9	47.4	32.5	32.4	35.7	7.2	32.7		
9	EHL 3412	-	5.9	-	11	-	13	-	17.5	-	-	-	14.3	-	16	45.7	36	19.5	38.9	53.8	23.1	49.8	62.2	33	-	11.8	28.5		
10	HTMH 5402	39.4	-	9.8	13.9	0.1	48.3	38.1	-	-	9.3	27.9	24.4	14.3	101.5	17.3	103.5	22.6	50.9	101.8	104	19	17.8	51.3	51.3	21.7	52.6		
11	JKMH 4545	-	19.2	-	19	9.9	78.6	-	10	-	39.8	1.1	12.9	9.2	42.5	64	41.6	28.1	65.6	143.1	44.6	40.3	-	93.6	19.5	10.5	45.7		
12	KMH-5951	-	-	-	-	-	64.2	-	-	-	-	8.7	7.3	-	13.5	1.3	12.9	-	27.6	123.5	12.9	16.8	-	13.6	28.6	5	14.5		
13	LG 32.82	8.3	35.4	-	-	2.3	-	8.1	9.7	-	2.5	25.6	-	1.2	56.5	86.2	79.6	-	54.2	19.9	59.6	39.8	36.8	41.8	48.5	-	35.1		
14	PRMH-2177	-	-	-	-	-	35.9	-	4.9	-	-	-	14	-	38.8	4.5	40.8	-	36.4	85	42.6	33.8	-	9.7	12	11.5	22.6		
15	KDMH 2705	9.4	48.9	-	9.2	-	29.5	10.4	5.2	-	9.1	-	3.7	4.3	58	104.8	80	17.6	32.3	76.3	63.1	34.1	19.1	51	-	1.4	39.2		
16	KNMH 4010131	-	-	-	4.4	8.5	23.8	-	3.2	-	-	19.4	-	0.3	38.9	22.5	83.3	12.4	63.5	68.4	44.9	31.6	2.9	28.3	41.2	-	33.9		
17	DKC 9145(IJ8533)	26.3	3.5	19	-	1.6	102	28.5	4.5	10.2	3.3	-	36.7	11.8	82.4	42.3	120.5	-	53.1	174.9	89.7	33.2	89.2	43	-	33.8	49.1		
CHECKS																													
18	PMH4	-	-	-	-	-	-	-	-	-	-	-	-	-	44.5	37.5	85.3	7.7	50.7	36.1	47.7	27.5	71.7	38.4	18.2	-	33.4		
19	HM9	-	-	-	-	-	-	-	-	-	-	-	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	HM10	-	-	-	-	-	-	-	7.4	-	-	-	10	-	-	-	26.4	-	11.1	-	1.7	36.9	48.8	-	0.6	7.6	8.3		
21	BIO-9637	27.6	-	-	4.1	-	6.2	29	5.5	-	-	11.9	-	-	84.4	36.9	37.9	12.1	1.9	44.6	90.5	34.6	-	3	32.2	-	29.4		

TABLE No. 13 (Cont..)

S.No.	PEDIGREE	GRAIN SHELLING %											MOISTURE % AT HARVEST									
		AMBI	BANS	BHIL	CHHI	DAHO	GODH	JAGD	JHAB	RAIP	UDAI	UJJA	ZN 5					ZN 5				
													Mean	BANS	BHIL	CHHI	DAHO	GODH	JHAB	KOTA	UDAI	Mean
1	BH 41150	77.6	76.5	77.4	87.3	80.8	79.2	76.0	79.6	77.9	83.3	82.1	79.8	17.5	18.6	17.3	24.7	15.5	25.1	18.9	22.4	20.0
2	CMH 10-547	77.8	75.6	80.3	82.5	87.1	83.3	76.5	81.0	82.0	82.7	83.1	81.1	17.4	19.4	17.5	22.8	16.2	24.9	19.4	22.3	20.0
3	CMH 11-617	77.2	73.4	78.0	80.6	84.5	88.2	76.7	79.8	79.7	82.6	84.2	80.4	17.3	17.8	16.7	25.1	14.7	24.8	18.4	22.4	19.6
4	DKC 8144(IM8479)	77.7	76.0	80.0	86.0	95.0	85.6	77.1	81.5	81.3	83.5	84.0	82.5	18.3	18.9	16.2	20.9	14.8	24.9	17.2	23.3	19.3
5	DKC 9144(IM8478)	77.4	75.2	81.3	82.4	83.7	85.7	77.4	83.5	81.3	83.6	85.1	81.5	17.4	19.2	17.1	22.0	16.7	24.7	18.5	22.9	19.8
6	DKC 9149(IM8581)	76.8	73.2	82.2	83.8	87.0	84.9	75.0	85.3	82.5	83.4	82.6	81.5	17.2	18.9	14.6	23.5	15.4	24.6	17.4	23.1	19.3
7	EH-2205	76.1	73.9	73.8	82.7	89.9	84.2	75.1	82.8	81.6	82.6	83.9	80.6	17.4	17.6	16.7	25.0	15.7	24.9	17.4	23.2	19.7
8	EH-2240	75.4	70.2	75.7	87.7	82.1	87.8	76.3	85.0	79.0	82.6	83.0	80.4	17.4	18.3	18.2	25.8	15.7	24.6	17.4	23.0	20.0
9	EHL 3412	74.8	72.5	76.8	84.7	85.1	85.2	75.8	81.8	81.3	82.8	83.8	80.4	17.6	20.1	16.3	24.7	15.8	24.8	17.0	23.1	19.9
10	HTMH 5402	77.4	76.0	84.0	85.5	82.8	82.6	76.4	79.2	81.5	82.7	83.0	81.0	18.1	19.6	18.3	26.7	15.8	24.7	17.7	23.3	20.5
11	JKMH 4545	76.6	74.6	85.8	86.5	82.2	87.9	75.6	86.3	84.1	82.5	84.1	82.4	17.5	17.6	16.3	24.3	16.7	24.7	15.3	23.3	19.5
12	KMH-5951	75.9	73.5	80.6	80.7	83.3	80.9	73.4	85.4	79.8	83.0	84.0	80.0	17.4	17.4	14.2	23.7	15.6	24.9	16.5	23.1	19.1
13	LG 32.82	76.4	74.5	76.0	82.1	83.5	74.5	75.3	84.8	80.3	82.4	81.3	79.2	17.2	18.3	13.2	24.8	15.5	24.9	16.4	22.4	19.1
14	PRMH-2177	76.0	71.2	79.5	84.2	84.9	84.3	75.7	79.7	82.0	82.5	83.0	80.3	17.2	18.0	17.7	24.3	15.4	25.0	16.3	23.3	19.7
15	KDMH 2705	76.0	77.1	82.9	87.0	80.4	84.6	75.8	81.5	83.4	82.5	82.8	81.3	17.5	19.2	16.1	25.2	15.5	25.3	17.7	22.5	19.9
16	KNMH 4010131	76.9	72.8	78.2	83.7	85.8	85.7	75.7	81.0	78.1	83.0	83.3	80.4	17.6	18.6	17.5	20.5	15.5	25.7	18.6	22.6	19.6
17	DKC 9145(IJ8533)	76.8	75.4	80.0	79.4	85.0	83.8	76.7	78.3	83.8	82.8	84.3	80.6	17.3	18.8	14.4	20.7	16.1	25.9	18.9	22.6	19.3
	CHECKS																					
18	PMH4	76.5	73.8	84.3	84.9	85.8	87.4	75.9	81.0	87.1	82.9	82.9	82.0	17.8	17.8	16.1	23.6	16.5	25.2	15.9	23.4	19.5
19	HM9	77.0	75.7	78.7	82.3	86.0	82.1	73.5	77.9	82.5	83.3	82.3	80.1	17.6	17.0	15.9	22.1	15.3	25.6	13.9	22.8	18.8
20	HM10	75.6	71.5	75.3	84.4	79.9	85.4	73.8	82.5	79.9	82.8	82.1	79.4	17.4	17.7	16.3	24.3	16.1	25.4	18.0	23.1	19.8
21	BIO-9637	76.6	69.4	80.3	84.2	82.0	81.0	76.0	83.3	80.8	82.8	82.3	79.9	17.4	17.5	16.2	22.3	15.3	25.6	15.2	22.5	19.0
	Loc. Mean	76.6	73.9	79.6	83.9	84.6	84.0	75.7	81.9	81.4	82.9	83.2	80.7	17.5	18.4	16.3	23.7	15.7	25.1	17.2	22.9	19.6
	C.D. (5%)	2.97	2.31	4.96	6.13	5.69	6.70	1.61	2.60	5.01	0.55	0.41	1.80	0.58	1.95	2.89	1.00	0.90	0.46	0.42	0.57	0.96
	C.V. (%)	2.35	1.89	3.78	4.42	4.08	4.83	1.29	1.92	3.73	0.40	0.30	2.66	2.00	6.41	10.73	2.55	3.48	1.12	1.47	1.52	4.97
	F (Prob)	0.89	0.00	0.00	0.36	0.00	0.04	0.00	0.00	0.14	0.00	0.00	0.01	0.04	0.14	0.07	0.00	0.00	0.00	0.00	0.00	0.11

TABLE No. 13 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% SILKING												DAYS TO 75% DRY HUSK												
		AMBI	BANS	BHIL	CHHI	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	Mean	AMBI	BANS	BHIL	CHHI	DAHO	GODH	JAGD	KOTA	RAIP	UDAI	UJJA	Mean
1	BH 41150	59.3	55.3	59.7	58.0	58.0	56.0	63.0	55.3	52.7	66.0	58.3	59.0	58.4	89.7	73.7	87.7	91.3	83.7	86.3	92.7	83.7	86.2	88.3	93.0	86.9
2	CMH 10-547	60.0	53.3	59.3	57.3	58.7	50.0	64.0	53.3	52.7	57.0	59.3	56.0	56.8	91.0	72.7	89.3	91.7	83.3	81.0	96.0	84.0	86.5	88.3	94.0	87.1
3	CMH 11-617	60.7	55.3	58.3	58.3	60.3	54.0	66.0	54.0	51.3	65.3	58.0	56.7	58.2	95.3	75.0	87.7	91.0	85.3	85.0	100.0	84.7	86.2	87.7	93.0	88.3
4	DKC 8144(IM8479)	61.7	56.7	60.0	56.0	57.7	56.0	65.7	55.7	53.0	67.3	58.0	55.0	58.6	98.7	74.7	90.3	87.3	83.7	86.7	104.0	85.0	87.1	88.7	92.0	88.9
5	DKC 9144(IM8478)	58.0	56.0	58.0	57.0	57.0	53.3	61.3	54.3	52.3	66.7	52.0	56.0	56.8	100.0	73.3	90.3	90.7	85.0	83.7	103.7	85.3	86.5	81.0	93.0	88.4
6	DKC 9149(IM8581)	57.7	56.7	57.3	54.7	61.3	52.0	61.0	54.3	49.7	62.3	59.7	56.0	56.9	91.3	73.3	88.7	87.0	83.7	84.7	96.7	83.7	86.2	88.3	93.0	87.0
7	EH-2205	59.7	54.0	58.7	57.7	59.0	50.0	63.7	53.7	53.3	61.7	57.7	55.7	57.1	89.3	73.0	87.7	88.3	82.7	81.7	95.0	85.7	86.0	87.0	92.0	86.2
8	EH-2240	57.3	56.0	57.3	57.7	58.0	52.0	62.0	50.0	49.7	62.7	50.7	56.0	55.8	87.0	74.7	87.0	90.7	82.0	85.0	90.0	84.3	86.1	79.7	92.3	85.3
9	EHL 3412	60.7	55.3	61.7	56.3	63.0	55.0	63.7	52.7	51.7	64.0	58.7	58.0	58.4	93.3	75.0	89.7	89.7	84.0	86.7	95.7	85.3	86.5	87.3	94.0	87.9
10	HTMH 5402	59.7	55.7	57.7	58.7	59.3	52.7	63.7	52.7	49.3	67.7	49.3	57.0	56.9	98.0	74.0	90.7	91.0	84.0	84.3	102.0	86.0	87.9	79.7	93.0	88.2
11	JKMH 4545	53.3	55.7	54.7	59.0	53.0	49.0	58.3	50.7	48.7	63.0	51.0	55.0	54.3	83.0	73.0	84.7	90.7	80.3	80.7	88.0	82.7	86.3	79.7	91.0	83.6
12	KMH-5951	54.0	56.0	58.7	57.7	60.0	50.3	53.7	52.0	49.7	66.7	51.7	56.0	55.5	83.7	72.7	86.3	88.0	83.7	82.0	88.3	83.7	85.3	80.7	92.3	84.2
13	LG 32.82	59.0	55.7	60.3	57.0	57.7	53.3	62.7	55.0	50.3	67.3	58.0	56.0	57.7	94.3	75.0	88.7	88.0	82.3	84.0	99.0	84.7	86.6	88.7	93.0	87.7
14	PRMH-2177	57.7	55.7	58.7	57.7	58.7	51.0	62.3	51.3	48.3	64.3	50.0	57.0	56.1	88.0	73.7	86.3	90.7	82.0	82.7	92.7	84.3	86.4	79.7	92.7	85.4
15	KDMH 2705	59.3	56.0	59.3	56.3	59.3	53.0	62.0	54.0	51.0	62.3	58.0	58.3	57.4	93.3	73.3	89.0	88.7	84.7	83.7	98.3	84.3	86.2	88.3	91.0	87.3
16	KNMH 4010131	62.0	56.0	60.0	57.0	60.3	52.0	65.3	54.3	52.0	68.3	58.3	57.0	58.6	90.0	72.3	88.7	90.0	85.0	84.3	95.3	84.3	85.7	88.3	92.0	86.9
17	DKC 9145(IJ8533)	62.3	56.0	59.0	58.7	59.3	52.3	66.3	55.3	49.0	67.3	59.0	56.0	58.4	99.3	74.3	91.3	92.3	86.7	83.3	104.3	85.3	85.7	88.3	93.0	89.5
CHECKS																										
18	PMH4	54.7	55.7	54.3	57.0	53.3	51.3	59.0	53.0	50.7	64.0	51.3	56.7	55.1	88.0	73.0	87.3	91.0	81.7	82.3	93.0	83.7	87.2	80.3	91.0	85.3
19	HM9	56.7	56.7	57.0	56.3	55.3	52.0	61.0	53.3	51.0	64.0	49.7	56.0	55.8	92.3	74.3	89.0	88.7	83.7	83.3	97.7	86.0	85.8	80.7	91.0	86.6
20	HM10	59.7	56.0	59.7	56.3	58.0	52.3	65.3	53.7	49.7	62.3	53.0	58.3	57.0	89.0	73.3	89.7	91.3	83.7	84.0	94.3	87.3	86.6	82.3	92.0	86.7
21	BIO-9637	54.3	55.0	57.0	57.3	60.0	53.0	60.3	50.3	53.0	67.0	51.3	56.7	56.3	91.0	74.0	87.7	89.3	84.7	84.0	95.0	85.0	86.6	81.3	92.0	86.4
	Loc. Mean	58.5	55.7	58.4	57.2	58.4	52.4	62.4	53.3	50.9	64.6	54.9	56.6	56.9	91.7	73.7	88.5	89.9	83.6	83.8	96.3	84.7	86.4	84.5	92.4	86.9
	C.D. (5%)	1.46	1.76	2.45	3.37	1.59	0.85	1.30	2.32	1.55	1.97	1.39	0.51	1.55	1.30	1.98	1.67	5.11	1.63	2.18	1.30	1.75	1.38	1.06	0.37	1.87
	C.V. (%)	1.52	1.92	2.54	3.57	1.65	0.98	1.26	2.64	1.84	1.85	1.53	0.55	3.38	0.86	1.63	1.15	3.44	1.18	1.58	0.82	1.25	0.97	0.76	0.24	2.57
	F (Prob)	0.00	0.08	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.76	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00

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TABLE No. 13 (Cont..)

S.No.	PEDIGREE	PLANT HEIGHT(cm)												EAR HEIGHT(cm)											
													ZN 5												ZN 5
		AMBI	BANS	BHIL	CHHI	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	Mean	AMBI	BANS	BHIL	CHHI	DAHO	GODH	JAGD	KOTA	RAIP	UDAI	Mean
1	BH 41150	211.1	180.0	184.0	185.0	215.7	192.0	186.5	134.3	181.7	231.6	191.7	196.3	190.8	70.4	107.0	87.7	85.0	104.7	96.7	62.3	85.0	87.2	81.7	86.8
2	CMH 10-547	210.8	232.0	182.3	191.7	208.0	209.7	199.2	155.7	181.7	230.9	185.0	196.0	198.6	71.9	115.7	80.7	90.0	102.3	108.0	63.7	88.3	92.3	76.7	89.0
3	CMH 11-617	191.7	223.7	188.3	165.0	212.3	188.3	178.3	148.7	183.3	234.0	196.7	239.0	195.8	65.9	109.0	93.7	76.7	109.7	94.0	59.1	85.0	97.2	86.7	87.7
4	DKC 8144(IM8479)	204.5	217.0	180.7	175.0	202.0	200.0	190.5	140.7	188.3	233.9	205.0	242.3	198.3	62.3	110.0	83.0	86.7	84.7	134.3	56.5	88.3	90.0	93.3	88.9
5	DKC 9144(IM8478)	189.4	217.0	174.7	176.7	195.3	196.0	175.0	141.3	180.0	217.1	186.7	232.3	190.1	64.7	108.7	86.7	81.7	95.7	107.7	58.6	85.0	91.3	80.0	86.0
6	DKC 9149(IM8581)	172.3	217.0	185.3	185.0	204.3	188.7	162.3	152.7	173.3	227.3	185.0	227.0	190.0	62.7	110.7	94.3	78.3	92.0	95.0	56.6	75.0	86.5	85.0	83.6
7	EH-2205	191.6	220.7	193.0	180.0	207.3	190.3	181.2	150.7	175.0	211.1	178.3	192.7	189.3	60.1	107.3	98.0	78.3	87.3	99.7	55.0	83.3	80.4	83.3	83.3
8	EH-2240	173.8	228.7	172.7	175.0	178.0	199.7	166.4	165.7	176.7	213.5	193.3	221.7	188.8	57.5	108.3	82.0	88.3	82.7	102.0	53.5	76.7	89.8	85.0	82.6
9	EHL 3412	180.2	182.7	169.0	185.0	206.0	181.7	170.3	158.7	168.3	197.2	186.7	219.0	183.7	55.0	110.3	81.3	85.0	96.3	89.7	51.5	75.0	89.1	93.3	82.7
10	HTMH 5402	178.9	222.3	157.7	168.3	207.7	191.7	170.4	137.0	171.7	216.1	178.3	231.3	186.0	60.7	112.3	76.0	86.7	85.3	98.3	53.7	73.3	84.2	80.0	81.1
11	JKMH 4545	198.1	224.0	170.3	175.0	178.0	191.0	188.0	153.0	161.7	227.4	183.3	217.0	188.9	59.5	112.0	76.3	83.3	81.7	122.7	54.6	63.3	77.6	81.7	81.3
12	KMH-5951	214.4	205.3	179.7	180.0	202.7	208.3	201.2	148.7	170.0	235.9	181.7	238.7	197.2	65.6	112.3	80.0	76.7	94.3	98.0	58.8	78.3	81.7	83.3	82.9
13	LG 32.82	183.9	217.3	168.7	181.7	195.0	194.0	174.7	133.0	168.3	194.3	178.3	211.7	183.4	53.3	112.7	78.7	76.7	84.7	110.0	51.3	83.3	82.9	76.7	81.0
14	PRMH-2177	195.1	182.3	183.7	180.0	193.7	215.0	183.3	149.3	173.3	228.3	181.7	251.0	193.1	63.8	100.7	85.7	85.0	88.7	112.3	58.3	76.7	82.0	83.3	83.6
15	KDMH 2705	192.6	223.3	171.7	186.7	179.7	184.7	182.7	135.7	170.0	218.0	180.0	195.0	185.0	72.9	122.3	93.0	80.0	84.0	104.0	65.7	68.3	98.3	85.0	87.4
16	KNMH 4010131	223.5	215.0	201.0	171.7	204.3	216.0	174.4	152.7	186.7	233.7	193.3	253.0	202.1	78.9	110.7	92.0	78.3	94.0	118.7	72.7	85.0	95.8	86.7	91.3
17	DKC 9145(IJ8533)	206.2	217.3	179.3	185.0	185.3	203.3	193.1	153.0	181.7	225.7	183.3	245.3	196.6	69.5	105.7	83.3	85.0	93.3	105.0	63.4	80.0	89.1	85.0	85.9
CHECKS																									
18	PMH4	191.6	222.3	169.3	191.7	213.3	180.7	181.2	121.7	165.0	222.4	183.3	221.3	188.7	62.5	115.7	85.7	80.0	99.3	76.7	55.8	70.0	86.3	81.7	81.4
19	HM9	169.2	207.0	156.7	190.0	188.7	167.0	161.5	140.7	170.0	202.1	185.0	220.0	179.8	46.2	119.0	74.0	83.3	92.0	76.3	45.9	70.0	70.1	78.3	75.5
20	HM10	192.7	239.0	181.0	176.7	208.0	198.3	182.6	137.3	180.0	242.2	183.3	232.3	196.1	57.7	110.0	80.0	75.0	88.7	96.7	55.2	80.0	89.4	85.0	81.8
21	BIO-9637	213.6	225.7	192.0	186.7	212.7	206.3	203.3	165.0	173.3	232.2	220.0	242.3	206.1	64.7	122.0	82.3	86.7	77.3	107.7	60.0	81.7	92.3	91.7	86.6
Loc. Mean		194.5	215.2	178.1	180.6	199.9	195.4	181.2	146.4	175.2	222.6	187.6	225.0	191.8	63.1	111.5	84.5	82.2	91.4	102.5	57.7	78.7	87.3	84.0	84.3
C.D. (5%)		20.84	44.07	23.63	27.30	8.83	17.75	27.23	9.54	5.42	18.29	9.70	3.10	8.92	10.65	16.69	16.10	16.24	6.66	31.54	8.11	6.27	9.04	9.70	5.98
C.V. (%)		6.49	12.41	8.04	9.16	2.68	5.51	9.11	3.95	1.87	4.98	3.13	0.83	5.78	10.22	9.07	11.55	11.97	4.42	18.64	8.51	4.83	6.27	7.00	8.04
F (Prob)		0.00	0.42	0.06	0.89	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.19	0.89	0.00	0.13	0.00	0.00	0.00	0.04	0.00

TABLE No. 14 PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, BARAPANI, BERTIN, DHAULAKUAN, KANGRA, POONCH, RAJOURI, UDHAMPUR IN AVT1 & 2 TRIAL No. 6771Z1 (AVT1-E-Z1 & AVT2-E-Z1) DURING KHARIF (2014)

SI	GRAIN YIELD (kg/ha) AT 15% MOISTURE																	GRAIN YIELD % SUPERIORITY OVER THE Prakash																
	No	PEDIGREE	ALMO	R	BAJA	R	BARA	R	BERT	R	DHAU	R	KANG	R	POON	R	RAJO	R	UDHA	R	MEAN	R	ALMO	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	MEAN		
1	AH 1261	3604	10	6464	11	3476	7	3871	12	5821	12	2623	13	5902	9	5389	5	7060	9	4912	13	7.4	-	-	-	-	-	21.8	16.2	1.2	-			
2	DMH-63	4294	6	10285	1	2368	11	6716	1	9105	3	4349	2	6108	7	5555	3	7102	8	6209	2	28	18.6	-	9.2	8.9	1	26.1	19.7	1.8	7.5			
3	FH 3664	5013	3	8408	5	1810	12	6235	3	7256	10	3776	8	6171	6	5013	9	6673	11	5595	9	49.4	-	-	1.4	-	-	27.4	8	-	-			
4	FH 3669	5104	2	7013	9	3280	8	5788	6	8486	6	3629	9	6740	5	5098	7	6600	13	5749	7	52.1	-	-	-	1.5	-	39.1	9.9	-	-			
5	JH-31610	2531	13	6313	12	2394	10	5571	8	9435	2	3616	10	6816	4	5094	8	7390	2	5462	11	-	-	-	-	12.8	-	40.7	9.8	6	-			
6	LG 31.81	4980	4	7137	8	5122	4	3178	13	7293	9	4243	4	6067	8	4413	13	7152	6	5510	10	48.4	-	9.8	-	-	-	25.2	-	2.6	-			
7	MEH 1-12-13	4212	7	5806	13	6191	1	5567	9	5419	13	2950	11	4899	12	5006	10	7333	4	5265	12	25.6	-	32.8	-	-	-	1.1	7.9	5.1	-			
8	Bio 9720	5809	1	9457	2	5846	2	6587	2	8942	4	4893	1	7391	2	5616	2	7128	7	6852	1	73.2	9	25.4	7.2	6.9	13.6	52.6	21.1	2.2	18.7			
9	GWH 0712	4092	9	6860	10	5540	3	5142	11	6913	11	3852	7	5214	10	5925	1	7362	3	5656	8	22	-	18.8	-	-	-	7.6	27.7	5.6	-			
10	EH-2212	3450	11	8666	4	2864	9	5737	7	8856	5	4046	6	5162	11	5437	4	7634	1	5761	6	2.8	-	-	-	5.9	-	6.6	17.2	9.5	-			
11	FH 3605	4307	5	8358	6	689	13	5485	10	9903	1	4237	5	8466	1	5346	6	6615	12	5934	3	28.4	-	-	-	18.4	-	74.8	15.2	-	2.8			
12	FH 3626	4211	8	7920	7	4903	5	5932	5	8081	8	2642	12	7378	3	4494	12	7283	5	5871	4	25.5	-	5.1	-	-	-	52.3	-	4.4	1.7			
CHECKS																																		
13	Prakash	3355	12	8673	3	4663	6	6148	4	8364	7	4308	3	4844	13	4639	11	6974	10	5774	5	-	-	-	-	-	-	-	-	-	-	-		
Location Mean		4228		7797		3781		5535		7990		3782		6243		5156		7101		5735														
C.D. (5%)		909		917		1268		476		1177		335		1212		459		340		788														
C.V. (%)		12.72		6.97		19.85		5.09		8.72		5.25		11.49		5.27		2.83		-														
F (Prob)		0		0		0		0		0		0		0		0		0		-														
Plot Size		12		9		9.6		4.8		10.8		10.8		14.4		14.4		14.4		-														
AGRONOMY DATA																																		
Sowing Date		1-07		21-06		30-06		6-07		24-06		2-07		23-06		19-06		5-07		-														
Harvest Date		31-10		27-10		23-10		16-10		14-09		3-10		10-11		10-05		16-10		-														
Irrigation Nos		-		3		-		-		-		-		-		-		-		-														
Fertilizer Applied N		80		120		80		120		120		120		100		120		120		-														
Fertilizer Applied P		60		60		60		60		60		60		80		60		60		-														
Fertilizer Applied K		40		40		40		40		40		40		60		40		40		-														

Table No. 14 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %										MOISTURE % AT HARVEST									
		ALMO	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	Mean	ALMO	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	Mean
1	AH 1261	80.7	80.4	68.3	76.2	80.6	80.0	84.8	85.3	76.8	79.2	22.4	25.2	29.0	27.7	27.5	27.3	20.4	24.4	24.5	25.4
2	DMH-63	85.0	82.5	74.7	75.8	84.8	78.7	77.5	85.3	79.8	80.4	25.9	25.4	24.0	28.7	28.2	27.8	20.0	22.0	25.0	25.2
3	FH 3664	83.4	83.6	76.7	79.7	83.9	80.9	79.3	83.0	79.4	81.1	22.2	25.1	23.7	27.8	28.5	26.2	20.0	22.8	24.0	24.5
4	FH 3669	80.8	79.7	75.0	73.6	79.9	77.3	83.7	77.3	74.4	78.0	22.6	25.2	24.0	27.8	26.6	27.3	20.7	25.0	24.0	24.8
5	JH-31610	85.6	82.8	72.7	75.6	81.6	79.5	81.0	74.7	81.7	79.4	28.4	24.9	26.0	27.8	27.2	27.7	20.1	22.7	24.0	25.4
6	LG 31.81	87.4	82.5	77.0	80.1	84.5	81.8	82.5	72.7	80.8	81.0	24.5	22.1	23.0	26.9	25.9	27.6	21.8	21.2	24.5	24.2
7	MEH 1-12-13	79.9	77.6	76.3	75.3	80.3	76.1	80.3	72.0	82.6	77.8	20.3	22.2	24.3	27.6	30.6	26.8	19.8	19.9	24.0	23.9
8	Bio 9720	85.5	82.6	76.7	80.3	82.8	82.3	84.3	75.0	80.1	81.1	23.9	22.4	23.7	27.8	28.0	26.9	20.2	23.5	25.0	24.6
9	GWH 0712	81.3	82.0	75.0	76.9	83.9	80.0	81.0	82.0	80.7	80.3	20.7	24.7	24.0	27.2	28.2	27.9	20.2	24.6	24.5	24.7
10	EH-2212	78.8	82.3	72.7	73.3	80.5	76.4	82.8	76.3	84.0	78.6	23.9	25.4	26.0	28.4	25.5	27.7	19.4	22.5	25.0	24.9
11	FH 3605	81.8	84.4	56.3	80.9	81.0	81.7	80.0	76.3	77.5	77.8	25.7	25.2	21.3	27.9	29.0	27.5	19.9	20.1	25.5	24.7
12	FH 3626	82.1	81.4	76.7	72.9	80.0	79.1	81.8	72.3	81.9	78.7	23.8	25.4	23.7	27.1	26.9	27.2	20.8	23.1	23.5	24.6
CHECKS																					
13	Prakash	82.7	81.6	75.0	74.1	85.0	80.7	82.7	74.3	76.8	79.2	27.5	25.3	24.0	27.4	30.3	27.5	20.2	22.2	24.5	25.4
	Loc. Mean	82.7	81.8	73.3	76.5	82.2	79.5	81.7	77.4	79.7	79.4	24.0	24.5	24.4	27.7	27.9	27.3	20.3	22.6	24.5	24.8
	C.D. (5%)	2.01	-	6.20	1.07	2.48	0.81	1.45	4.33	1.70	2.93	2.27	0.44	4.37	0.75	2.24	0.96	1.02	2.89	1.00	1.28
	C.V. (%)	1.44	-	5.02	0.83	1.79	0.61	1.05	3.32	1.27	3.95	5.61	1.07	10.65	1.61	4.77	2.08	3.00	7.59	2.42	5.52
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.20	0.00	0.00	0.06	0.01	0.02	0.02	0.39
S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)										DAYS TO 50% POLLEN SHED									
		ALMO	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	Mean	ALMO	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	Mean
1	AH 1261	58.1	64.4	51.7	70.8	54.6	43.5	34.7	58.6	66.7	55.9	61.0	55.3	56.3	46.7	46.3	46.7	54.3	49.0	52.3	52.0
2	DMH-63	63.1	65.6	51.4	75.7	64.5	47.2	37.5	52.5	66.7	58.2	67.3	59.3	51.7	54.3	51.7	52.3	58.0	46.7	53.7	55.0
3	FH 3664	64.2	74.8	51.7	76.4	69.4	48.1	38.2	57.2	66.7	60.7	63.0	54.0	49.3	44.0	48.7	47.3	48.3	45.3	51.7	50.2
4	FH 3669	64.4	62.2	53.8	70.1	67.0	47.8	36.6	59.7	65.5	58.6	64.7	55.7	53.3	42.3	48.7	48.3	54.3	44.3	53.0	51.6
5	JH-31610	65.0	67.4	54.2	69.4	69.8	47.5	38.0	57.4	66.7	59.5	65.3	55.7	55.0	46.0	44.3	47.3	52.7	48.0	54.0	52.0
6	LG 31.81	63.1	62.6	53.8	72.2	61.7	49.1	34.0	52.5	66.9	57.3	63.7	54.7	59.3	48.0	47.7	48.0	52.7	50.7	53.7	53.1
7	MEH 1-12-13	63.9	66.3	53.8	70.8	51.2	49.7	39.6	55.1	67.1	57.5	60.0	55.0	59.3	45.3	53.0	47.0	48.7	45.0	51.7	51.7
8	Bio 9720	63.6	64.1	53.5	68.1	63.0	48.1	36.6	58.6	66.7	58.0	64.7	59.0	56.0	52.3	47.7	48.7	54.3	42.0	52.0	53.0
9	GWH 0712	63.3	66.7	55.9	66.7	64.8	48.1	40.5	58.8	66.7	59.1	58.3	55.7	58.7	43.0	47.3	47.3	49.0	42.0	53.7	50.6
10	EH-2212	66.4	72.2	53.5	67.4	67.6	48.1	36.1	56.3	66.9	59.4	69.0	59.7	52.0	56.3	48.7	52.7	58.3	46.7	55.0	55.4
11	FH 3605	64.4	65.9	52.8	67.4	68.8	47.8	38.0	52.5	67.4	58.3	64.7	54.3	52.3	46.0	47.7	48.3	50.0	46.3	52.0	51.3
12	FH 3626	65.0	64.1	50.0	71.5	67.9	47.5	40.5	52.5	66.4	58.4	64.0	54.0	55.3	45.3	45.7	49.0	51.0	48.0	52.7	51.7
CHECKS																					
13	Prakash	63.6	64.1	52.8	68.8	63.9	46.9	37.3	52.5	67.1	57.4	71.3	60.3	55.3	56.3	50.7	54.7	56.7	42.0	54.0	55.7
	Loc. Mean	63.7	66.2	53.0	70.4	64.2	47.7	37.5	55.7	66.7	58.3	64.4	56.4	54.9	48.2	48.3	49.1	52.9	45.8	53.0	52.6
	C.D. (5%)	3.92	4.29	4.39	6.96	9.64	2.87	4.50	3.82	1.46	2.59	1.25	1.98	1.91	2.37	1.47	1.21	3.94	4.08	2.89	2.47
	C.V. (%)	3.66	3.85	4.92	5.86	8.92	3.58	7.12	4.06	1.30	4.75	1.15	2.08	2.07	2.92	1.80	1.47	4.42	5.29	3.23	5.03
	F (Prob)	0.06	0.00	0.48	0.15	0.01	0.05	0.15	0.00	0.66	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00

Table No. 14 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING										DAYS TO 75% DRY HUSK									
		ALMO	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	Mean	ALMO	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	Mean
1	AH 1261	63.7	58.0	57.3	49.7	51.0	49.3	58.7	53.0	56.7	55.3	101.3	96.0	104.0	87.7	87.3	86.7	108.3	87.3	96.3	95.0
2	DMH-63	69.0	61.3	52.7	57.7	57.0	55.7	62.0	51.0	58.0	58.3	109.0	100.0	87.0	95.7	92.0	93.0	107.7	84.7	96.7	96.2
3	FH 3664	63.7	56.0	50.3	47.7	53.3	51.0	53.0	48.0	55.7	53.2	102.3	95.7	84.0	85.7	90.0	88.3	101.3	86.3	94.7	92.0
4	FH 3669	65.7	58.0	54.3	45.7	53.7	51.3	58.0	47.0	58.0	54.6	102.3	95.3	97.3	83.7	88.3	88.7	108.0	86.0	97.7	94.1
5	JH-31610	66.7	58.3	56.0	49.3	50.0	50.3	56.7	50.7	58.7	55.2	108.7	99.3	84.0	87.3	88.7	87.7	104.7	84.7	98.0	93.7
6	LG 31.81	65.3	57.7	61.0	51.0	52.7	51.3	56.7	53.7	58.3	56.4	107.3	97.7	104.0	89.0	81.7	88.7	105.3	83.7	96.7	94.9
7	MEH 1-12-13	61.7	57.0	60.3	48.3	58.3	50.7	53.7	48.0	56.0	54.9	101.7	95.7	104.0	86.3	90.7	88.0	101.7	86.3	95.7	94.4
8	Bio 9720	66.0	61.0	57.3	55.3	52.3	52.0	58.0	45.0	56.3	55.9	108.3	100.7	104.0	93.7	92.0	89.3	103.0	85.7	95.0	96.9
9	GWH 0712	60.7	58.0	60.0	46.3	52.7	50.7	54.0	45.7	58.0	54.0	98.3	95.3	104.0	84.3	83.3	88.0	102.0	84.0	97.0	92.9
10	EH-2212	70.3	62.3	53.0	59.3	54.7	56.0	62.3	49.0	59.7	58.5	110.0	98.7	100.3	97.3	90.3	93.3	107.0	86.0	98.0	97.9
11	FH 3605	65.7	56.7	53.3	48.7	52.7	52.7	54.0	60.3	57.0	55.7	105.7	96.0	100.3	86.7	90.7	90.0	106.7	85.7	96.3	95.3
12	FH 3626	65.3	56.7	56.3	49.0	50.3	52.7	54.3	50.7	56.3	54.6	103.3	95.7	104.0	87.0	87.7	90.0	101.7	87.0	95.7	94.7
CHECKS																					
13	Prakash	72.3	62.3	56.3	59.3	56.0	58.3	60.3	46.3	58.0	58.8	112.0	102.0	104.0	97.3	93.7	95.7	108.3	86.3	97.3	99.6
Loc. Mean		65.8	58.7	56.0	51.3	53.4	52.5	57.1	49.9	57.4	55.8	105.4	97.5	98.5	89.4	88.9	89.8	105.1	85.7	96.5	95.2
C.D. (5%)		1.23	1.96	1.68	1.87	1.37	1.22	4.02	10.47	2.67	2.64	1.56	2.20	7.45	1.83	1.38	1.22	3.08	5.16	2.39	3.34
C.V. (%)		1.11	1.98	1.78	2.16	1.52	1.38	4.18	12.45	2.76	5.05	0.88	1.34	4.49	1.21	0.92	0.80	1.74	3.58	1.47	3.75
F (Prob)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.95	0.12	0.00
S.No.	PEDIGREE	PLANT HEIGHT(cm)										EAR HEIGHT(cm)									
		ALMO	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	Mean	ALMO	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	Mean
1	AH 1261	176.7	213.3	216.7	199.3	260.3	202.0	234.8	202.0	216.9	213.6	81.7	96.7	100.0	101.0	114.7	96.0	103.0	100.7	85.5	97.7
2	DMH-63	213.3	245.0	167.3	259.3	309.5	234.3	288.3	186.0	211.7	235.0	110.0	136.7	83.3	137.0	161.3	130.3	138.1	90.7	92.7	120.0
3	FH 3664	180.0	188.3	178.0	220.0	261.1	221.3	252.9	194.3	208.9	211.7	83.3	96.7	94.0	111.0	111.0	108.7	115.5	94.0	94.2	100.9
4	FH 3669	185.0	188.3	173.0	208.3	270.3	205.7	252.3	187.0	204.0	208.2	88.3	93.3	80.0	99.0	108.7	97.7	105.0	88.0	87.8	94.2
5	JH-31610	181.7	203.3	188.7	230.0	278.0	222.3	266.5	199.7	201.5	219.1	83.3	96.7	76.7	111.0	114.3	108.3	121.3	95.0	80.8	98.6
6	LG 31.81	193.3	206.7	176.0	200.7	286.7	216.7	267.0	203.3	219.8	218.9	81.7	85.0	87.7	90.0	102.3	94.3	101.7	101.3	100.9	93.9
7	MEH 1-12-13	183.3	181.7	216.3	223.3	217.1	194.0	235.5	199.0	215.8	207.3	80.0	103.3	116.7	103.7	125.3	97.0	107.7	99.0	98.8	103.5
8	Bio 9720	211.7	210.0	178.0	226.7	285.4	229.3	268.0	183.0	211.9	222.7	108.3	96.7	86.0	111.0	124.2	110.3	115.3	86.0	91.2	103.2
9	GWH 0712	188.3	210.0	199.7	210.0	237.0	224.3	251.0	180.0	217.5	213.1	90.0	121.7	107.7	115.0	122.0	116.7	116.5	88.7	98.1	108.5
10	EH-2212	188.3	195.0	175.3	270.0	282.4	236.3	254.7	175.7	243.2	224.5	83.3	111.7	83.7	141.0	122.5	119.7	117.1	81.0	99.8	106.6
11	FH 3605	175.0	180.0	178.7	196.0	257.4	202.0	234.8	182.0	189.0	199.4	86.7	91.7	87.0	101.3	115.9	93.7	102.7	82.0	84.0	93.9
12	FH 3626	183.3	190.0	177.7	236.3	273.7	224.3	257.1	191.7	208.7	215.9	83.3	96.7	79.7	120.3	113.9	111.0	118.0	92.3	92.8	100.9
CHECKS																					
13	Prakash	205.0	221.7	162.0	252.7	318.0	241.7	277.7	178.3	229.3	231.8	110.0	129.0	76.7	136.0	168.3	139.3	136.7	81.7	98.1	119.5
Loc. Mean		189.6	202.6	183.6	225.6	272.1	219.6	257.0	189.4	213.7	217.0	90.0	104.3	89.2	113.6	123.4	109.5	115.3	90.8	92.7	103.2
C.D. (5%)		8.64	22.07	17.39	11.05	21.54	7.97	24.02	2.73	35.10	14.62	9.73	11.16	15.57	9.23	11.49	8.01	16.00	4.74	19.04	10.04
C.V. (%)		2.70	6.46	5.62	2.91	4.70	2.15	5.55	0.85	9.74	7.20	6.42	6.35	10.36	4.82	5.53	4.34	8.23	3.10	12.19	10.40
F (Prob)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00

Table No. 15 (Continued)

GRAIN SHELLING %											MOISTURE % AT HARVEST									
S.No.	PEDIGREE	ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	ZN 2									
											Mean	ALIG	GURD	HISA	JHAN	KANP	KARN	LUDH	PANT	Mean
1	CMH 11-579	70.3	83.0	70.1	78.7	76.7	66.1	65.8	84.9	79.4	75.0	21.7	21.6	28.4	15.7	16.3	22.9	27.7	23.4	22.2
2	CMH 11-595	66.3	80.9	70.0	75.0	77.7	68.5	67.9	82.9	81.2	74.5	23.3	22.0	27.5	15.0	17.0	23.4	28.7	17.7	21.8
3	CMH 11-611	69.7	81.5	70.9	76.3	74.7	67.9	65.8	85.6	79.9	74.7	20.7	22.0	28.8	18.0	15.3	22.1	29.5	22.1	22.3
4	CMH 11-626	70.3	81.6	70.4	75.0	75.3	63.1	68.0	86.0	83.8	74.8	22.7	22.0	29.5	14.3	16.0	23.6	29.2	22.2	22.4
5	CMH 11-629	70.3	82.3	69.8	74.7	76.0	75.1	67.0	85.7	81.5	75.8	23.3	21.7	27.7	16.7	15.3	24.3	25.9	22.0	22.1
6	SeedTech-F CHECKS	67.3	83.0	70.5	82.3	71.7	65.2	66.9	84.8	77.7	74.4	25.7	21.8	28.7	22.3	17.3	19.7	28.6	21.3	23.2
7	Prakash	76.3	79.9	69.5	81.0	71.3	72.0	68.7	85.3	84.5	76.5	18.7	22.0	23.3	12.0	15.3	21.5	21.7	16.0	18.8
	Loc. Mean	70.1	81.7	70.2	77.6	74.8	68.3	67.2	85.0	81.1	75.1	22.3	21.9	27.7	16.3	16.1	22.5	27.3	20.7	21.8
	C.D. (5%)	2.47	1.40	2.24	3.58	1.88	6.30	0.30	2.98	2.36	2.30	2.10	0.38	2.89	2.29	1.72	0.30	1.18	2.19	1.80
	C.V. (%)	1.98	0.96	1.80	2.60	1.41	5.19	0.25	1.97	1.63	3.23	5.29	0.97	5.86	7.89	6.01	0.76	2.43	5.96	8.19
	F (Prob)	0.00	0.00	0.88	0.00	0.00	0.02	0.00	0.38	0.00	0.48	0.00	0.14	0.01	0.00	0.11	0.00	0.00	0.00	0.00

STAND AT HARVEST ('000/ha)											DAYS TO 50% POLLEN SHED										
S.No.	PEDIGREE	ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	ZN 2										
											Mean	ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	Mean
1	CMH 11-579	85.4	58.3	61.9	79.9	77.4	65.6	63.1	65.6	56.9	68.2	50.3	58.7	53.7	40.3	46.0	54.7	55.0	50.7	57.0	51.8
2	CMH 11-595	79.2	55.9	61.4	78.8	77.4	70.8	63.3	63.5	58.6	67.7	50.7	56.3	54.3	40.3	45.0	57.3	52.7	51.0	56.3	51.6
3	CMH 11-611	86.5	57.4	58.3	81.3	78.8	68.4	63.9	57.1	59.4	67.9	47.3	55.3	55.3	42.3	46.7	55.0	52.3	50.7	54.3	51.0
4	CMH 11-626	74.0	56.8	60.8	77.4	77.1	65.6	63.6	67.5	57.8	66.7	45.7	56.0	55.0	42.3	45.3	55.7	48.3	52.0	55.3	50.6
5	CMH 11-629	75.0	50.1	61.7	76.7	78.1	71.5	63.9	66.5	59.7	67.0	46.0	55.3	56.3	40.0	45.0	57.3	52.3	49.3	56.3	50.9
6	SeedTech-F CHECKS	85.8	51.6	60.0	78.5	79.2	66.0	62.2	71.1	58.9	68.1	54.0	55.7	52.7	41.7	45.3	55.7	53.3	51.3	56.3	51.8
7	Prakash	89.9	55.9	59.2	80.6	76.0	75.7	63.6	68.4	59.4	69.9	44.3	49.0	49.0	40.3	48.3	56.0	51.3	44.7	45.7	47.6
	Loc. Mean	82.2	55.1	60.5	79.0	77.7	69.1	63.4	65.7	58.7	67.9	48.3	55.2	53.8	41.0	46.0	56.0	52.2	50.0	54.5	50.8
	C.D. (5%)	21.55	8.25	3.74	3.50	2.68	5.80	1.84	7.30	2.72	3.00	1.68	3.65	1.56	1.99	1.48	2.18	1.25	2.78	2.43	2.04
	C.V. (%)	14.73	8.41	3.47	2.49	1.94	4.72	1.63	6.24	2.60	4.66	1.95	3.71	1.63	2.73	1.81	2.19	1.34	3.12	2.51	4.24
	F (Prob)	0.60	0.32	0.35	0.13	0.25	0.02	0.49	0.03	0.32	0.49	0.00	0.00	0.00	0.08	0.00	0.12	0.00	0.00	0.00	0.00

Table No. 15 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING										DAYS TO 75% DRY HUSK									
		ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	ZN 2	ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	ZN 2
		Mean										Mean									
1	CMH 11-579	56.7	59.0	56.3	44.0	50.0	60.7	57.0	51.3	59.7	55.0	76.3	86.0	96.3	78.7	87.3	96.3	85.0	86.3	86.5	
2	CMH 11-595	57.3	56.7	56.7	43.7	47.7	63.3	54.7	51.7	59.3	54.6	79.3	86.3	98.0	79.3	87.7	104.0	84.7	86.7	88.3	
3	CMH 11-611	54.0	55.3	57.7	47.3	50.0	62.0	54.3	51.0	57.3	54.3	79.0	85.7	100.0	85.0	88.7	96.0	83.3	87.3	88.1	
4	CMH 11-626	51.7	56.3	57.3	46.3	48.7	61.7	50.3	52.3	58.3	53.7	78.0	85.0	99.0	84.3	84.7	102.0	82.3	86.7	87.8	
5	CMH 11-629	52.3	55.7	59.0	44.7	47.7	62.3	54.3	50.0	59.3	53.9	78.0	86.3	100.7	83.3	88.7	104.0	84.3	86.7	89.0	
6	SeedTech-F CHECKS	59.0	57.0	55.0	46.3	48.3	62.0	55.3	52.0	59.0	54.9	82.0	88.7	94.7	83.0	85.0	103.3	85.3	89.3	88.9	
7	Prakash	51.0	48.3	51.0	45.0	51.7	61.3	53.3	44.3	48.3	50.5	75.7	84.3	89.7	80.0	90.0	97.7	80.3	84.0	85.2	
	Loc. Mean	54.6	55.5	56.1	45.3	49.1	61.9	54.2	50.4	57.3	53.8	78.3	86.0	96.9	82.0	87.4	100.5	83.6	86.7	87.7	
	C.D. (5%)	2.25	4.18	1.95	2.10	1.31	3.51	1.25	2.30	2.47	2.09	1.62	3.07	1.80	2.25	1.71	2.39	1.25	2.20	2.27	
	C.V. (%)	2.32	4.24	1.95	2.60	1.49	3.19	1.29	2.56	2.42	4.10	1.16	2.01	1.04	1.54	1.10	1.34	0.84	1.42	2.56	
	F (Prob)	0.00	0.00	0.00	0.02	0.00	0.77	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.01	0.02	
S.No.	PEDIGREE	PLANT HEIGHT(cm)										EAR HEIGHT(cm)									
		ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	ZN 2	ALIG	GURD	HISA	JHAN	KANP	KAPU	KARN	LUDH	PANT	ZN 2
		Mean										Mean									
1	CMH 11-579	272.0	231.7	212.0	202.7	181.0	181.5	176.7	234.0	278.0	218.8	117.3	113.3	89.3	97.7	76.0	95.5	90.0	131.0	120.0	103.4
2	CMH 11-595	257.3	236.7	216.2	214.0	173.7	183.9	220.0	237.0	263.7	222.5	106.7	126.7	86.7	98.3	70.7	84.1	130.0	137.3	118.7	106.6
3	CMH 11-611	269.3	233.3	199.6	218.7	174.7	186.1	196.7	220.7	278.3	219.7	116.7	120.0	85.2	97.7	74.0	97.1	106.7	122.7	119.0	104.3
4	CMH 11-626	265.7	228.3	202.4	213.3	176.0	183.3	206.7	208.3	268.7	217.0	111.7	113.3	88.2	108.0	74.7	100.4	96.7	114.3	117.3	102.7
5	CMH 11-629	259.3	221.7	200.1	208.3	181.3	190.2	188.3	216.0	256.0	213.5	113.0	115.0	87.2	100.0	79.7	90.5	93.3	118.7	107.3	100.5
6	SeedTech-F CHECKS	245.0	213.3	199.5	206.0	177.0	174.4	205.0	205.0	255.7	209.0	109.0	106.7	95.0	107.0	82.0	86.6	123.3	124.7	119.7	106.0
7	Prakash	236.0	203.3	194.0	193.3	183.7	151.5	168.3	204.7	255.3	198.9	99.0	96.7	85.2	94.3	76.3	79.4	93.3	107.0	104.7	92.9
	Loc. Mean	257.8	224.0	203.4	208.0	178.2	178.7	194.5	218.0	265.1	214.2	110.5	113.1	88.1	100.4	76.2	90.5	104.8	122.2	115.2	102.3
	C.D. (5%)	15.00	22.47	18.06	3.19	3.33	9.08	8.39	28.94	17.50	8.57	7.31	17.86	15.71	2.82	3.41	7.59	9.44	15.32	8.74	7.08
	C.V. (%)	3.27	5.64	4.99	0.86	1.05	2.86	2.42	7.46	3.71	4.22	3.72	8.88	10.02	1.58	2.51	4.71	5.07	7.05	4.26	7.30
	F (Prob)	0.00	0.07	0.19	0.00	0.00	0.00	0.00	0.14	0.04	0.00	0.00	0.07	0.84	0.00	0.00	0.00	0.00	0.02	0.01	0.01

TABLE No. 16: PERFORMANCE OF EARLY MATURITY EXPERIMENTAL HYBRIDS AT BAHRAICH, BHUBANESHWAR, CHHAPRA, DHOLI, KORAPUT, RANCHI, VARANASI IN AVT1 TRIAL No. 67Z3 (AVT1-E-Z3) DURING KHARIF (2014)

SI No	GRAIN YIELD (kg/ha) AT 15% MOISTURE														GRAIN YIELD % SUPERIORITY OVER THE Prakash										
	PEDIGREE														ZN 3										
	BAHR	R	BHUB	R	CHHA	R	DHOL	R	KORA	R	RANC	R	VARA	R	MEAN	R	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	MEAN	
1	B-52	6342	5	5868	5	3462	2	4843	2	6812	4	8247	2	4885	5	5780	6	3.2	-	13.6	9.5	-	14.8	-	-
2	CMH 11-579	7090	4	5765	6	2948	6	4081	7	8083	1	9215	1	5618	4	6115	2	15.3	-	-	-	6.4	28.3	-	4.4
3	CMH 11-626	8563	3	6051	3	3254	3	4638	3	7871	2	8163	3	5673	3	6316	1	39.3	-	6.8	4.9	3.6	13.6	-	7.8
4	CMH 11-629	8676	2	5713	7	2893	7	4206	6	6338	5	7943	4	6552	1	6046	3	41.1	-	-	-	-	10.6	9	3.2
5	BIO 9681-F	6337	6	6857	1	2991	5	4304	5	6011	6	6917	6	4063	7	5354	7	3.1	4	-	-	-	-	-	-
6	BIO 9637-F	9564	1	5898	4	3557	1	4862	1	5811	7	6725	7	4760	6	5883	4	55.6	-	16.8	9.9	-	-	-	0.4
7	Prakash	6148	7	6593	2	3047	4	4423	4	7599	3	7183	5	6013	2	5858	5	-	-	-	-	-	-	-	-
	Location Mean	7532		6106		3164		4480		6932		7770		5366		5907									
	C.D. (5%)	374		511		503		668		866		976		1968		838									
	C.V. (%)	2.76		4.66		8.85		8.3		6.95		6.99		20.0		-									
	F (Prob)	0		0.001		0.052		0.107		0		0.001		0.1		-									
	Plot Size	9.6		9.6		12		12		9.6		11.2		9.6		-									
	AGRONOMY DATA																								
	Sowing Date	2-07		26-06		23-07		14-07		4-07		5-07		28-06		-									
	Harvest Date	4-10		9-10		29-10		20-10		31-10		1-11		4-10		-									
	Irrigation Nos	-		-		2		2		-		-		2		-									
	Fertilizer Applied N	120		120		100		120		120		120		100		-									
	Fertilizer Applied P	60		60		60		60		60		60		60		-									
	Fertilizer Applied K	40		60		40		40		60		40		40		-									

Table No. 16 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %							MOISTURE % AT HARVEST								
		BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	Mean	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	Mean
		ZN 3								ZN 3							
1	B-52	73.6	80.9	76.5	81.0	76.2	85.6	71.8	77.9	23.1	17.8	28.3	28.0	17.1	23.5	31.2	24.1
2	CMH 11-579	76.7	80.4	78.0	83.0	79.3	84.0	74.0	79.3	23.8	17.2	29.9	30.6	17.1	23.6	34.8	25.3
3	CMH 11-626	79.1	79.9	75.5	83.0	79.6	85.4	74.3	79.6	24.8	17.6	29.5	30.5	17.1	23.1	35.3	25.4
4	CMH 11-629	79.0	78.5	75.0	83.0	73.4	83.7	73.4	78.0	24.9	17.9	31.4	31.4	17.1	24.8	33.0	25.8
5	BIO 9681-F	73.8	80.2	75.0	82.0	74.9	85.2	72.3	77.6	23.0	17.6	29.3	29.3	17.1	22.8	30.5	24.2
6	BIO9637-F	81.4	80.5	77.5	80.5	71.8	85.5	73.4	78.7	23.7	18.1	30.8	30.8	17.1	23.9	33.6	25.4
CHECKS																	
7	Prakash	77.4	81.0	72.5	80.0	75.3	84.6	74.4	77.9	23.1	18.0	31.6	31.6	17.1	24.7	34.7	25.8
	Loc. Mean	77.3	80.2	75.7	81.8	75.8	84.9	73.4	78.4	23.8	17.7	30.1	30.3	17.1	23.7	33.3	25.1
	C.D. (5%)	1.30	-	1.58	2.71	-	0.91	1.88	1.97	1.07	0.00	2.15	2.30	-	2.07	1.87	0.93
	C.V. (%)	0.95	-	1.17	1.86	-	0.60	1.44	2.32	2.53	0.00	4.01	4.26	-	4.91	3.16	3.41
	F (Prob)	0.00	0.00	0.00	0.12	0.00	0.00	0.07	0.31	0.01	0.00	0.05	0.05	-	0.35	0.00	0.00
S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)							DAYS TO 50% POLLEN SHED								
		BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	Mean	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	Mean
		ZN 3								ZN 3							
1	B-52	62.5	63.2	48.6	61.9	66.7	56.5	62.2	60.2	54.3	47.0	48.3	52.3	65.7	48.0	55.3	53.0
2	CMH 11-579	64.9	64.6	41.1	54.4	78.1	62.8	63.9	61.4	56.3	47.7	50.3	54.3	67.7	50.0	58.3	55.0
3	CMH 11-626	62.2	63.5	46.4	59.4	68.8	64.0	63.9	61.2	52.3	47.0	50.0	54.0	66.7	50.7	58.0	54.1
4	CMH 11-629	61.8	62.8	44.2	57.2	60.4	60.4	65.6	58.9	54.3	48.0	49.7	53.7	67.0	51.3	57.7	54.5
5	BIO 9681-F	62.2	64.6	40.0	53.6	57.3	54.5	64.2	56.6	48.3	45.0	48.0	52.0	64.0	48.0	53.7	51.3
6	BIO9637-F	67.4	63.2	50.0	63.1	67.7	55.1	64.6	61.6	53.7	46.7	49.3	53.3	65.0	48.0	56.0	53.1
CHECKS																	
7	Prakash	65.3	64.6	47.2	60.0	58.3	63.4	62.5	60.2	56.3	50.3	52.0	56.0	69.0	52.0	59.3	56.4
	Loc. Mean	63.7	63.8	45.4	58.5	65.3	59.5	63.8	60.0	53.7	47.4	49.7	53.7	66.4	49.7	56.9	53.9
	C.D. (5%)	3.08	4.55	7.95	7.41	-	3.69	5.03	4.02	1.55	2.22	1.92	1.92	1.45	1.05	2.00	0.95
	C.V. (%)	2.71	4.01	9.85	7.11	-	3.48	4.43	6.17	1.63	2.64	2.17	2.01	1.23	1.19	1.98	1.62
	F (Prob)	0.01	0.94	0.13	0.11	-	0.00	0.77	0.18	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00

Table No. 16 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING								DAYS TO 75% DRY HUSK									
		BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	ZN 3		BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	ZN 3	
									Mean	Mean								Mean	Mean
1	B-52	56.3	50.3	50.7	54.7	71.0	53.0	60.0	56.6	85.7	80.7	77.3	81.3	109.0	86.0	91.3	87.3		
2	CMH 11-579	58.3	50.0	52.7	55.0	72.0	53.0	62.7	57.7	86.7	81.7	78.3	82.3	110.0	86.0	92.3	88.2		
3	CMH 11-626	54.3	51.0	51.7	54.7	72.0	53.7	62.3	57.1	86.3	85.7	78.3	82.3	110.0	87.0	91.7	88.8		
4	CMH 11-629	56.3	51.0	52.0	55.0	72.0	54.3	60.3	57.3	87.3	85.3	79.0	83.0	110.0	86.3	92.3	89.0		
5	BIO 9681-F	50.3	48.3	51.3	54.7	68.7	52.0	57.7	54.7	83.3	77.0	78.0	82.0	107.0	86.3	91.3	86.4		
6	BIO9637-F	55.7	49.0	52.0	55.3	70.7	52.0	61.3	56.6	85.7	77.0	78.7	82.7	108.7	86.3	94.0	87.6		
	CHECKS																		
7	Prakash	58.3	52.7	54.3	57.7	74.0	55.0	63.0	59.3	88.7	79.0	79.0	83.0	112.0	86.3	92.0	88.6		
	Loc. Mean	55.7	50.3	52.1	55.3	71.5	53.3	61.0	57.0	86.2	80.9	78.4	82.4	109.5	86.3	92.1	88.0		
	C.D. (5%)	1.55	2.14	1.81	1.79	1.79	1.05	2.10	1.12	2.72	2.94	2.13	2.13	1.53	1.10	2.78	1.63		
	C.V. (%)	1.57	2.39	1.95	1.82	1.40	1.11	1.93	1.80	1.77	2.05	1.52	1.45	0.78	0.71	1.70	1.71		
	F (Prob)	0.00	0.02	0.02	0.03	0.00	0.00	0.00	0.00	0.03	0.00	0.63	0.63	0.00	0.54	0.45	0.03		

S.No.	PEDIGREE	PLANT HEIGHT(cm)								EAR HEIGHT(cm)									
		BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	ZN 3		BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	ZN 3	
									Mean	Mean								Mean	Mean
1	B-52	171.1	135.9	166.5	163.5	215.3	200.5	151.7	172.1	68.0	44.6	90.0	92.7	108.3	106.9	85.0	85.1		
2	CMH 11-579	208.6	168.1	194.8	191.8	243.0	223.9	173.3	200.5	90.7	68.9	99.1	101.8	115.0	110.3	103.3	98.5		
3	CMH 11-626	185.4	184.3	185.2	182.2	224.3	211.1	170.0	191.8	86.3	90.6	94.3	97.0	111.7	110.8	95.0	97.9		
4	CMH 11-629	181.2	167.6	178.2	175.2	231.3	204.4	175.0	187.6	79.4	77.9	85.3	88.0	112.7	114.0	101.7	94.1		
5	BIO 9681-F	198.0	143.8	170.0	167.0	210.7	211.8	158.3	179.9	70.6	47.0	77.8	80.5	95.0	92.9	75.0	77.0		
6	BIO9637-F	193.4	194.7	193.3	193.2	223.3	213.4	175.0	198.0	78.1	83.5	96.5	99.2	115.7	103.9	85.0	94.6		
	CHECKS																		
7	Prakash	180.9	130.3	183.0	180.0	242.0	209.2	180.0	186.5	82.9	52.2	93.5	96.2	128.0	109.9	105.0	95.4		
	Loc. Mean	188.4	160.7	181.6	179.0	227.1	210.6	169.0	188.1	79.4	66.4	90.9	93.6	112.3	106.9	92.9	91.8		
	C.D. (5%)	27.49	11.72	16.68	17.28	4.21	14.39	22.87	11.12	19.81	6.20	15.18	15.18	3.87	8.82	12.40	8.37		
	C.V. (%)	8.20	4.10	5.16	5.43	1.04	3.84	7.60	5.45	14.02	5.25	9.38	9.11	1.94	4.63	7.51	8.41		
	F (Prob)	0.15	0.00	0.02	0.02	0.00	0.08	0.16	0.00	0.23	0.00	0.11	0.11	0.00	0.00	0.00	0.00		

TABLE No. 17: PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT ARBHAVI, COIMBATORE, DHARWAD, DHULE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, NASIK, PATANCHERU, VAGARAI IN AVT1 & AVT2 TRIAL No. 6771Z4 (AVT1-E-Z4 & AVT2-E-Z4) DURING KHARIF (2014)

SI No PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																									
	ARBH	R	COIM	R	DHAR	R	DHUL	R	HYDE	R	KARI	R	KOLH	R	MAND	R	NASI	R	PATA	R	VAGA	R	VRDC	R	MEAN	R
1 AH 1261	6215	10	4993	11	6867	8	4932	11	5860	10	7599	3	2814	8	6575	8	13400	4	4284	10	3765	1	6531	10	6118	10
2 B-52	8445	7	9831	6	5867	11	6267	2	7682	4	6266	10	3574	2	8438	5	15671	1	5061	5	3075	9	7098	8	7289	3
3 EH-2214	9223	3	11152	2	8000	3	6221	3	8000	3	7558	5	3026	5			10746	8	5413	2	3589	3	8148	5	7293	2
4 FH 3664	7755	8	10229	4	7444	6	4943	10	7642	5	7659	2	4415	1	6946	7	8117	11	4989	6	3558	5	8320	3	6700	7
5 FH 3669	9134	4	9030	8	7111	7	5171	8	5599	11	6264	11	3217	4	8607	4	11595	7	4848	8	3152	7	8788	2	6703	6
6 NMH-1258	9767	1	12099	1	8356	2	6850	1	8753	1	7575	4	2925	6	8899	3	13556	3	5767	1	3581	4	7976	7	8012	1
7 LG 31.81	7739	9	9324	7	6778	9	5901	4	7551	6	7439	6	2698	10	7066	6	8861	10	4959	7	3087	8	8275	4	6491	9
8 HKH341	8643	5	7564	10	7578	5	4966	9	6635	8	7684	1	2610	11	5809	10	13631	2	4351	9	2700	10	6716	9	6561	8
9 FH 3605	8562	6	10138	5	7889	4	5800	7	8264	2	6399	9	3328	3	8974	2	11969	5	5077	4	3501	6	5748	11	7264	4
10 KMH-7021	9303	2	10441	3	8644	1	5839	5	7477	7	6802	8	2914	7	9043	1	8907	9	5276	3	3668	2	9504	1	7119	5
CHECKS																										
11 Prakash	5960	11	7730	9	6778	10	5834	6	6618	9	6912	7	2710	9	5998	9	11643	6	4170	11	2632	11	8059	6	6089	11
Location Mean	8250		9321		7392		5702		7280		7105		3112		7636		11645		4927		3301		7742		6876	
C.D. (5%)	1895		515		1816		613		1076		1751		678		462		1552		478		765		4810		1055	
C.V. (%)	13.44		3.24		14.38		6.29		8.65		14.42		12.75		3.9		7.8		5.67		13.56		36.36		-	
F (Prob)	0.004		0		0.142		0		0		0.453		0.001		0		0		0		0.04		0.872		-	
Plot Size	14.4		14.4		12		14.4		18		18		18		14		14.4		12		14.4		14.4		-	
AGRONOMY DATA																										
Sowing Date	22-07		15-07		19-07		22-07		9-07		8-07		19-07		29-07		28-07		25-06		2-07		24-06		-	
Harvest Date	1-12		17-10		-		18-11		20-10		25-10		26-11		18-12		13-11		18-10		18-11		17-11		-	
Irrigation Nos	8		8		-		-		3		-		-		7		-		-		8		2		-	
Fertilizer Applied N	150		150		-		120		200		200		120		150		120		-		150		150		-	
Fertilizer Applied P	75		75		-		60		60		60		60		75		60		-		75		75		-	
Fertilizer Applied K	37.5		75		-		40		50		50		40		40		40		-		75		37.5		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : VRDC 36.4 %

Table No. 17 (Continued)

STAND AT HARVEST ('000/ha)														GRAIN YIELD % SUPERIORITY OVER THE Prakash														
S.No.	PEDIGREE	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	ZN 4										MEAN				
														ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA		VAGA	VRDC	MEAN	
1	AH 1261	58.1	66.2	60.3	82.6	66.1	56.9	52.2	61.0	79.2	33.9	54.2	60.2	60.9	4.3	-	1.3	-	-	9.9	3.8	9.6	15.1	2.7	43.1	-	0.5	
2	B-52	61.1	66.2	61.1	82.4	58.7	53.1	52.6	60.0	81.7	32.5	51.4	63.0	60.3	41.7	27.2	-	7.4	16.1	-	31.9	40.7	34.6	21.4	16.8	-	19.7	
3	EH-2214	67.6	66.7	59.4	81.5	63.3	57.0	50.2	-	80.8	35.3	57.9	61.6	61.9	54.8	44.3	18	6.6	20.9	9.3	11.7	-	-	29.8	36.4	1.1	19.8	
4	FH 3664	80.3	66.4	60.6	81.7	63.3	57.8	53.1	61.9	80.6	34.4	53.7	65.0	63.2	30.1	32.3	9.8	-	15.5	10.8	62.9	15.8	-	19.6	35.2	3.2	10	
5	FH 3669	75.7	66.2	59.4	81.0	63.3	57.8	53.3	62.6	80.8	35.0	53.5	65.5	62.8	53.3	16.8	4.9	-	-	-	18.7	43.5	-	16.2	19.8	9.1	10.1	
6	NMH-1258	75.5	66.4	62.5	82.2	66.9	56.5	52.0	61.0	80.3	33.3	55.1	62.7	62.9	63.9	56.5	23.3	17.4	32.3	9.6	8	48.4	16.4	38.3	36.1	-	31.6	
7	LG 31.81	75.2	66.4	60.8	81.3	68.7	57.8	52.6	61.0	82.2	34.7	52.1	62.3	62.9	29.8	20.6	-	1.1	14.1	7.6	-	17.8	-	18.9	17.3	2.7	6.6	
8	HKH341	74.3	66.4	55.0	81.5	62.6	55.4	53.3	60.0	81.0	34.4	51.9	53.0	60.7	45	-	11.8	-	0.3	11.2	-	-	17.1	4.3	2.6	-	7.7	
9	FH 3605	70.6	66.7	56.7	82.4	68.7	51.3	53.1	61.9	81.7	35.8	55.8	57.6	61.9	43.7	31.1	16.4	-	24.9	-	22.8	49.6	2.8	21.8	33	-	19.3	
10	KMH-7021	73.1	66.7	58.9	81.7	66.5	55.0	52.0	62.4	82.2	35.0	54.6	73.4	63.5	56.1	35.1	27.5	0.1	13	-	7.5	50.8	-	26.5	39.4	17.9	16.9	
CHECKS																												
11	Prakash	73.6	66.0	54.4	82.2	60.6	57.2	52.6	61.4	81.0	32.8	51.4	59.5	61.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Loc. Mean	71.4	66.4	59.0	81.9	64.4	56.0	52.5	61.3	81.0	34.3	53.8	62.2	62.0	LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : VRDC 36.4 %													
	C.D. (5%)	7.52	0.62	10.01	1.38	5.03	8.27	3.32	2.41	3.06	2.99	7.46	17.52	2.25														
	C.V. (%)	6.19	0.55	9.95	0.99	4.58	8.67	3.71	2.19	2.22	5.12	8.15	16.54	4.48														
	F (Prob)	0.00	0.37	0.81	0.30	0.01	0.82	0.76	0.27	0.69	0.42	0.76	0.68	0.05														

GRAIN SHELLING %														MOISTURE % AT HARVEST													
S.No.	PEDIGREE	ARBH	COIM	DHUL	HYDE	KARI	KOLH	MAND	NASI	VAGA	VRDC	ZN 4										MEAN					
												ARBH	COIM	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA		VRDC	MEAN			
1	AH 1261	85.8	83.3	78.1	77.4	81.7	78.1	82.0	70.8	77.0	84.4	79.9			18.4	24.0	11.8	25.4	13.8	14.5	14.5	18.1	25.0	18.2	12.4	17.8	
2	B-52	85.0	80.9	81.5	73.5	79.5	69.0	82.6	70.0	77.8	81.7	78.1			19.6	22.8	11.8	24.5	12.7	16.2	14.8	11.4	25.8	19.1	12.9	17.4	
3	EH-2214	82.5	79.5	77.1	75.5	80.2	72.1	-	66.0	78.0	79.0	76.6			18.3	24.1	10.4	26.9	14.8	15.0	-	13.7	26.3	18.9	12.6	18.1	
4	FH 3664	87.1	81.1	79.1	79.9	82.3	84.1	83.1	68.9	80.2	87.5	81.3			20.1	24.4	9.6	26.4	14.6	14.4	13.7	15.7	24.3	18.2	13.0	17.7	
5	FH 3669	83.1	76.3	78.3	74.2	85.5	75.2	83.0	74.6	76.8	82.1	78.9			22.9	20.9	10.2	25.0	14.1	14.7	14.5	15.6	25.0	19.4	12.8	17.7	
6	NMH-1258	87.7	81.1	79.6	78.1	82.0	74.9	83.4	66.3	79.3	88.7	80.1			22.0	22.2	11.7	26.2	12.7	14.6	15.3	14.1	26.8	18.1	13.1	17.9	
7	LG 31.81	89.3	84.0	84.3	79.9	80.6	89.1	82.8	68.5	78.2	86.9	82.4			15.2	20.5	11.8	25.4	14.6	13.5	14.0	14.2	25.5	17.1	12.4	16.7	
8	HKH341	84.6	80.4	79.1	77.7	80.9	75.8	76.0	71.7	78.9	83.5	78.9			22.6	20.9	11.4	27.3	15.8	14.7	14.0	13.9	24.7	18.5	12.4	17.8	
9	FH 3605	84.4	78.7	80.8	79.4	78.3	79.3	81.0	71.2	77.1	84.8	79.5			19.9	24.0	12.5	25.3	13.1	17.3	14.7	15.8	26.1	19.7	12.4	18.2	
10	KMH-7021	87.9	79.0	80.6	80.3	80.1	83.9	83.4	67.3	78.2	85.6	80.6			16.4	21.9	11.1	24.0	12.7	14.3	14.6	17.9	25.8	19.8	12.7	17.4	
CHECKS																											
11	Prakash	87.7	81.7	81.2	73.9	84.3	85.9	82.6	63.7	77.9	85.9	80.5			16.6	19.5	10.3	23.0	14.7	14.4	14.8	13.1	23.3	16.8	12.6	16.3	
	Loc. Mean	85.9	80.5	80.0	77.3	81.4	78.9	82.0	69.0	78.1	84.6	79.7			19.2	22.3	11.2	25.4	14.0	14.8	14.5	14.8	25.3	18.5	12.7	17.5	
	C.D. (5%)	0.87	1.07	3.74	6.38	7.62	0.30	1.31	2.33	1.73	7.49	2.38			2.73	0.93	1.84	2.21	4.31	0.91	0.27	3.80	1.66	1.46	1.08	1.13	
	C.V. (%)	0.59	0.78	2.75	4.85	5.50	0.22	0.89	1.98	1.30	5.20	3.36			8.32	2.46	9.66	5.10	18.12	3.60	1.04	15.04	3.86	4.62	5.03	7.59	
	F (Prob)	0.00	0.00	0.04	0.24	0.75	0.00	0.00	0.00	0.01	0.32	0.00			0.00	0.00	0.08	0.02	0.87	0.00	0.00	0.04	0.01	0.00	0.90	0.03	

BR242

Table No. 17 (Continued)

DAYS TO 50% POLLEN SHED														DAYS TO 50% SILKING													
S.No.	PEDIGREE	ZN 4												ZN 4													
		ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	Mean	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	Mean
1	AH 1261	56.3	49.0	56.0	50.7	54.0	47.3	57.0	49.0	59.0	48.7	48.3	58.0	52.8	57.3	51.0	58.0	54.0	54.7	48.3	58.0	50.7	62.0	50.7	52.0	59.5	54.7
2	B-52	57.7	50.3	60.3	51.3	54.7	47.0	60.0	49.7	59.7	52.3	49.0	59.0	54.3	58.0	52.3	62.0	55.0	55.3	49.3	61.0	52.0	61.0	54.3	54.0	60.5	56.2
3	EH-2214	57.0	50.0	60.0	53.7	55.3	48.7	56.0	-	60.3	52.0	48.0	59.5	54.6	59.0	52.0	62.0	57.0	56.0	50.7	57.0	-	62.0	54.0	53.3	61.0	56.7
4	FH 3664	56.0	47.0	58.3	52.0	53.0	47.3	55.0	48.7	59.0	47.7	49.7	58.0	52.6	56.0	49.0	59.0	54.7	53.0	49.0	56.0	49.7	61.0	49.7	54.0	59.0	54.2
5	FH 3669	55.7	50.3	56.7	51.7	54.3	45.0	63.0	49.7	59.0	52.0	48.7	56.0	53.5	57.0	53.0	58.0	54.7	55.3	47.0	64.0	51.3	60.7	54.0	53.0	57.5	55.5
6	NMH-1258	60.0	52.7	59.3	47.7	55.0	46.0	63.0	51.0	60.0	52.0	51.0	58.5	54.7	58.0	55.0	61.7	50.7	56.3	48.0	64.0	53.3	61.7	54.0	55.0	59.5	56.4
7	LG 31.81	55.7	52.3	59.0	52.3	55.3	49.3	61.0	50.7	60.7	50.0	53.7	56.5	54.7	57.7	54.7	60.0	55.7	56.3	52.0	62.0	52.7	62.7	52.0	57.3	58.0	56.8
8	HKH341	58.0	51.0	58.3	53.0	56.3	48.0	57.0	50.0	58.7	52.0	52.7	56.5	54.3	58.0	53.0	59.7	56.3	57.0	50.3	58.0	52.0	61.7	54.0	57.0	57.5	56.2
9	FH 3605	55.3	49.0	58.3	50.7	53.7	49.0	58.0	49.0	59.7	49.3	48.0	58.0	53.2	56.0	51.0	59.0	53.3	54.0	51.7	59.0	50.0	60.7	51.3	52.0	59.0	54.8
10	KMH-7021	53.7	49.0	57.0	49.7	52.0	48.0	55.0	48.7	59.0	48.7	48.0	57.0	52.1	56.3	51.0	59.7	53.0	53.3	49.7	56.0	50.3	61.3	52.7	52.7	58.5	54.5
CHECKS																											
11	Prakash	57.0	47.0	55.7	44.0	52.0	49.7	60.0	48.0	59.3	47.0	47.3	57.0	52.0	53.0	49.0	56.3	47.3	52.0	52.0	61.0	49.0	62.0	49.0	51.0	58.0	53.3
	Loc. Mean	56.6	49.8	58.1	50.6	54.2	47.8	58.6	49.4	59.5	50.2	49.5	57.6	53.5	56.9	51.9	59.6	53.8	54.8	49.8	59.6	51.1	61.5	52.3	53.8	58.9	55.4
	C.D. (5%)	3.62	0.57	1.77	1.09	1.10	4.92	-	1.06	1.90	1.27	3.56	1.92	1.32	2.53	0.41	1.88	0.59	1.44	4.39	-	1.65	1.68	1.27	3.69	1.80	1.32
	C.V. (%)	3.76	0.67	1.79	1.26	1.19	6.05	-	1.19	1.87	1.48	4.23	1.96	3.04	2.61	0.46	1.85	0.65	1.54	5.18	-	1.80	1.60	1.42	4.03	1.80	2.94
	F (Prob)	0.12	0.00	0.00	0.00	0.00	0.69	-	0.00	0.49	0.00	0.02	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.31	0.00	0.03	0.01	0.00
DAYS TO 75% DRY HUSK																											
S.No.	PEDIGREE	ZN 4																									
		COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	Mean														
1	AH 1261	90.0	91.0	80.7	89.3	83.3	98.0	92.0	100.3	86.7	81.7	109.0	91.1														
2	B-52	92.3	94.0	82.0	90.3	84.3	101.0	91.3	100.3	86.7	84.0	112.0	92.6														
3	EH-2214	92.0	90.0	84.7	91.0	85.7	97.0	-	100.3	87.3	83.7	109.5	92.1														
4	FH 3664	88.0	91.0	82.3	96.0	84.0	96.0	93.3	99.3	87.3	83.3	112.5	92.1														
5	FH 3669	93.0	88.3	82.3	91.0	82.0	104.0	92.7	98.3	86.7	82.7	109.5	91.9														
6	NMH-1258	95.0	90.7	79.7	94.7	83.0	104.0	94.7	100.0	87.7	84.3	108.0	92.9														
7	LG 31.81	95.0	88.3	83.0	93.3	87.0	102.0	92.0	98.0	84.0	87.7	109.0	92.7														
8	HKH341	93.0	90.3	83.0	98.0	85.3	98.0	91.3	100.7	87.3	87.0	100.5	92.2														
9	FH 3605	90.0	89.7	80.0	91.7	87.0	99.0	92.0	99.7	86.0	82.3	107.0	91.3														
10	KMH-7021	90.0	87.7	70.7	90.3	84.7	96.0	90.7	101.7	83.7	82.0	108.5	89.6														
CHECKS																											
11	Prakash	88.0	87.3	76.3	90.0	87.0	101.0	91.3	110.7	83.3	81.7	101.0	90.7														
	Loc. Mean	91.5	89.8	80.4	92.3	84.8	99.6	92.1	100.8	86.1	83.7	107.9	91.7														
	C.D. (5%)	0.30	2.69	8.76	2.75	4.29	-	2.37	1.67	2.53	4.35	9.43	2.22														
	C.V. (%)	0.19	1.76	6.40	1.75	2.97	-	1.43	0.97	1.73	3.05	5.13	2.86														
	F (Prob)	0.00	0.00	0.14	0.00	0.25	-	0.06	0.00	0.01	0.11	0.23	0.14														

Table No. 17 (Continued)

PLANT HEIGHT(cm)													ZN 4
S.No. PEDIGREE	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	Mean
1 AH 1261	150.0	199.1	192.3	208.3	218.3	178.3	160.0	202.0	184.6	179.7	145.3	149.9	180.7
2 B-52	162.0	192.3	197.7	224.3	227.0	175.0	160.0	209.3	184.2	198.3	143.5	173.6	187.3
3 EH-2214	187.0	200.0	213.7	240.0	243.0	178.3	173.3	-	193.7	222.0	156.8	171.7	198.1
4 FH 3664	151.0	187.2	211.0	231.7	227.7	180.0	173.3	201.0	209.2	190.3	126.5	167.1	188.0
5 FH 3669	163.5	185.3	190.3	225.7	224.7	171.7	145.0	208.3	187.9	196.3	149.4	174.2	185.2
6 NMH-1258	164.0	190.7	210.0	235.0	237.0	165.0	168.3	219.0	183.6	218.0	161.3	187.0	194.9
7 LG 31.81	182.5	185.6	207.3	237.3	231.7	181.7	161.7	221.0	192.6	212.0	140.6	160.3	192.9
8 HKH341	159.0	182.6	183.0	218.7	215.7	173.3	153.3	207.3	166.3	194.3	138.0	174.1	180.5
9 FH 3605	136.0	184.5	176.7	218.0	215.3	180.0	145.0	192.7	183.3	178.0	164.2	165.4	178.3
10 KMH-7021	150.0	199.5	202.7	223.0	226.0	171.7	155.0	207.0	197.1	186.7	154.8	156.8	185.9
CHECKS													
11 Prakash	159.5	182.8	188.0	210.7	219.7	180.0	130.0	202.7	185.6	187.3	143.5	181.3	180.9
Loc. Mean	160.4	189.9	197.5	224.8	226.0	175.9	156.8	207.0	188.0	196.6	147.6	169.2	186.6
C.D. (5%)	8.89	9.33	19.04	3.62	12.72	38.56	20.53	15.99	16.85	6.58	29.37	20.55	7.47
C.V. (%)	3.25	2.88	5.66	0.94	3.30	12.87	7.69	4.29	5.26	1.96	11.68	7.13	4.95
F (Prob)	0.00	0.00	0.01	0.00	0.00	1.00	0.01	0.04	0.01	0.00	0.32	0.05	0.00
EAR HEIGHT(cm)													ZN 4
S.No. PEDIGREE	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	Mean
1 AH 1261	66.0	97.6	89.7	84.3	85.0	76.7	71.7	99.7	94.7	85.0	64.3	62.6	81.4
2 B-52	77.0	106.4	103.7	91.7	93.0	81.7	75.0	106.3	102.3	90.0	77.9	65.4	89.2
3 EH-2214	84.0	122.4	107.3	91.7	107.3	78.3	78.3	-	116.3	104.7	87.1	71.3	95.3
4 FH 3664	67.5	109.4	112.0	87.7	87.7	85.0	73.3	98.7	106.3	89.7	68.7	73.1	88.3
5 FH 3669	68.5	99.4	84.7	80.7	89.0	81.7	55.0	104.3	98.3	86.0	74.5	63.3	82.1
6 NMH-1258	56.5	100.5	98.7	75.3	89.7	66.7	55.0	107.3	98.0	89.0	73.3	71.7	81.8
7 LG 31.81	67.5	96.1	98.3	91.3	85.0	81.7	56.7	107.0	94.0	85.7	71.5	65.7	83.4
8 HKH341	69.0	106.6	87.0	74.7	89.7	78.3	61.7	104.0	96.3	87.3	69.1	59.7	81.9
9 FH 3605	56.5	94.0	94.3	89.7	82.7	85.0	58.3	96.0	92.0	77.0	76.1	61.3	80.3
10 KMH-7021	55.5	108.5	103.0	79.7	73.7	90.0	60.0	103.0	87.3	74.7	74.5	56.1	80.5
CHECKS													
11 Prakash	76.5	107.7	95.7	77.7	94.7	70.0	60.0	102.7	108.0	91.3	70.9	69.5	85.4
Loc. Mean	67.7	104.4	97.7	84.0	88.8	79.5	64.1	102.9	99.4	87.3	73.4	65.4	84.5
C.D. (5%)	11.12	10.91	20.20	4.04	9.54	20.81	12.91	6.65	11.85	9.98	16.27	12.35	4.91
C.V. (%)	9.65	6.13	12.14	2.83	6.30	15.36	11.83	3.59	7.00	6.72	13.01	11.08	7.18
F (Prob)	0.00	0.00	0.19	0.00	0.00	0.55	0.00	0.02	0.00	0.00	0.38	0.15	0.00

BR244

TABLE No. 18: PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSAWARA, BHILODA, DAHOD, GODHRA, JAGDALPUR, JHABUA, KOTA, RAIPUR, UDAIPUR, UJJAIN IN AVT1 & 2 TRIAL No. 6771Z5 (AVT1-E-Z5 & AVT2-E-Z5) DURING KHARIF (2014)

SI No PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																									
	AMBI	R	BANS	R	BHIL	R	CHHI	R	DAHO	R	GODH	R	JAGD	R	JHAB	R	KOTA	R	RAIP	R	UDAI	R	UJJA	R	MEAN	R
1 B-52	6228	12	4311	13	4588	6	4416	10	6077	8	6453	2	6171	11	6103	2	1776	13	2710	12	6761	7	6528	4	5246	8
2 CMH 11-579	8587	3	4323	12	4723	2	5091	7	7172	1	7165	1	7615	5	5399	6	2002	8	4174	3	6827	4	6436	7	5857	1
3 CMH 11-595	7202	7	4788	8	3428	17	5843	2	5668	11	5708	7	7093	7	6146	1	1988	9	3726	6	6004	13	6905	2	5332	7
4 CMH 11-611	8841	2	4947	4	3862	15	5249	5	6249	6	6214	4	8533	2	4683	12	2118	6	4524	2	6549	11	5494	15	5638	2
5 CMH 11-626	8468	4	3989	16	5136	1	4378	11	6577	3	4508	11	8311	3	5569	3	2332	2	2944	10	6710	8	5117	17	5424	5
6 CMH 11-629	7687	5	3946	17	4131	11	3748	16	7030	2	5492	10	7614	6	5410	5	1731	14	3162	8	6934	3	6748	3	5444	4
7 DMH-63	7525	6	4795	7	4599	5	3784	15	6295	5	6212	5	7739	4	5549	4	1597	16	2708	13	5576	14	6402	8	5363	6
8 EH-2214	6343	10	5002	2	4614	3	3428	17	5729	10	5497	9	6611	9	5162	7	2275	4	3016	9	6660	10	5858	12	5161	9
9 EH-2233	5325	15	4309	14	4586	7	6943	1	5258	12	4166	14	5636	14	4775	8	1709	15	2757	11	7038	2	6507	5	4733	14
10 FH 3664	5785	13	4822	6	4069	12	3800	14	6341	4	5703	8	5400	15	4285	15	1987	10	2412	14	6804	5	7231	1	4985	12
11 FH 3669	6296	11	5467	1	4459	8	5387	3	4419	15	4255	13	6076	12	4658	13	2717	1	3824	5	7042	1	5813	13	5002	11
12 JH-31613	6479	9	4969	3	4050	13	4163	13	5087	13	6369	3	6962	8	4731	10	1915	11	1995	16	6796	6	6451	6	5073	10
13 NMH-1258	5046	16	4891	5	4197	9	4343	12	6027	9	6050	6	5248	16	4690	11	1887	12	2136	15	6667	9	5458	16	4754	13
14 MEH 1-12-13	3912	17	4630	11	3881	14	5172	6	3741	17	3793	16	4108	17	4753	9	2183	5	4001	4	3408	17	6344	10	4068	17
15 Bio 9720	6577	8	4674	9	4600	4	4969	8	4641	14	4408	12	6459	10	4270	16	2037	7	1946	17	4990	15	5695	14	4572	15
16 CMH10-531	9118	1	4666	10	4196	10	5376	4	6088	7	4032	15	8956	1	4246	17	2316	3	5055	1	6182	12	6276	11	5557	3
CHECKS																										
17 Prakash	5697	14	4200	15	3651	16	4527	9	4119	16	2893	17	5660	13	4476	14	1554	17	3527	7	4883	16	6375	9	4276	16
Location Mean	6771		4631		4281		4742		5677		5231		6717		4994		2007		3213		6225		6214		5087	
C.D. (5%)	1110		985		2006		2651		1202		1386		917		294		268		993		1096		213		952	
C.V. (%)	9.84		12.77		28.15		33.57		12.71		15.91		8.2		3.54		8.01		18.57		10.57		2.06		-	
F (Prob)	0		0.259		0.966		0.476		0		0		0		0		0		0		0		0		-	
Plot Size	14.4		14.4		15		18		14.4		14.4		14.4		13.5		14.4		14.4		14.4		18		-	
AGRONOMY DATA																										
Sowing Date	9-07		13-07		24-06		4-07		9-07		15-07		31-07		11-07		23-07		5-07		4-07		18-07		-	
Harvest Date	-		16-10		-		24-11		14-10		4-11		-		26-10		5-11		16-10		13-10		5-11		-	
Irrigation Nos	-		-		-		-		1		-		-		-		2		-		1		-		-	
Fertilizer Applied N	120		150		-		120		100		100		120		100		90		100		90		100		-	
Fertilizer Applied P	60		80		-		60		50		50		60		60		30		60		60		60		-	
Fertilizer Applied K	40		-		-		40		-		-		40		40		-		40		-		40		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : CHHI 33.6 %

TABLE No. 18 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Prakash												ZN 5 MEAN
		AMBI	BANS	BHIL	CHHI	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	
1	B-52	9.3	2.6	25.7	-	47.5	123	9	36.3	14.3	-	38.5	2.4	22.7
2	CMH 11-579	50.7	2.9	29.4	12.4	74.1	147.7	34.5	20.6	28.8	18.3	39.8	1	37
3	CMH 11-595	26.4	14	-	29.1	37.6	97.3	25.3	37.3	27.9	5.6	23	8.3	24.7
4	CMH 11-611	55.2	17.8	5.8	16	51.7	114.8	50.7	4.6	36.3	28.3	34.1	-	31.8
5	CMH 11-626	48.6	-	40.7	-	59.7	55.8	46.8	24.4	50.1	-	37.4	-	26.8
6	CMH 11-629	34.9	-	13.1	-	70.7	89.8	34.5	20.8	11.4	-	42	5.8	27.3
7	DMH-63	32.1	14.2	26	-	52.8	114.7	36.7	24	2.8	-	14.2	0.4	25.4
8	EH-2214	11.3	19.1	26.4	-	39.1	90	16.8	15.3	46.4	-	36.4	-	20.7
9	EH-2233	-	2.6	25.6	53.4	27.7	44	-	6.7	10	-	44.1	2.1	10.7
10	FH 3664	1.6	14.8	11.4	-	54	97.1	-	-	27.9	-	39.3	13.4	16.6
11	FH 3669	10.5	30.2	22.1	19	7.3	47.1	7.3	4.1	74.8	8.4	44.2	-	17
12	JH-31613	13.7	18.3	10.9	-	23.5	120.1	23	5.7	23.2	-	39.2	1.2	18.6
13	NMH-1258	-	16.4	14.9	-	46.3	109.1	-	4.8	21.4	-	36.5	-	11.2
14	MEH 1-12-13	-	10.2	6.3	14.2	-	31.1	-	6.2	40.5	13.4	-	-	-
15	Bio 9720	15.4	11.3	26	9.8	12.7	52.4	14.1	-	31.1	-	2.2	-	6.9
16	CMH10-531	60.1	11.1	14.9	18.7	47.8	39.4	58.2	-	49	43.3	26.6	-	30
	CHECKS													
17	Prakash	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : CHHI 33.6 %

TABLE No. 18 (Cont..)

S.No.	PEDIGREE	GRAIN SHELLING %											MOISTURE % AT HARVEST									
		AMBI	BANS	BHIL	CHHI	DAHO	GODH	JAGD	JHAB	RAIP	UDAI	UJJA	ZN 5					KOTA	UDAI	Mean		
													BANS	BHIL	CHHI	DAHO	GODH				JHAB	
1	B-52	77.8	74.1	81.3	86.9	82.8	84.4	75.0	79.7	79.0	83.5	80.2	80.4	17.1	17.7	11.2	20.5	14.9	24.7	15.5	23.4	18.1
2	CMH 11-579	75.3	73.1	80.7	87.9	84.5	78.7	74.2	80.9	78.7	83.3	83.9	80.1	16.7	17.0	11.1	19.3	14.6	24.7	16.5	23.4	17.9
3	CMH 11-595	75.6	73.5	82.3	86.9	84.1	86.9	74.9	83.4	76.1	83.0	83.1	80.9	16.8	17.3	10.8	20.8	15.0	24.1	15.1	23.7	17.9
4	CMH 11-611	75.0	73.4	81.7	85.8	81.0	85.7	75.1	78.9	82.8	82.8	84.0	80.5	17.5	18.2	10.8	21.5	15.9	24.4	16.6	23.5	18.5
5	CMH 11-626	75.2	72.7	81.7	84.4	85.4	84.1	75.0	81.5	73.4	83.3	84.0	80.1	16.4	19.5	10.9	21.0	14.5	24.3	16.1	23.4	18.2
6	CMH 11-629	74.9	72.7	82.3	84.6	85.8	86.9	73.9	81.9	75.5	83.3	84.0	80.5	17.0	18.5	10.9	18.9	15.6	24.8	13.2	23.0	17.7
7	DMH-63	74.5	74.1	82.0	84.2	84.9	86.5	75.5	80.6	78.7	83.2	84.2	80.7	16.6	18.8	11.0	22.7	15.2	24.6	13.3	23.1	18.1
8	EH-2214	73.1	72.5	81.3	83.5	82.6	85.2	72.8	78.7	83.0	83.3	81.9	79.8	16.2	18.5	10.9	20.7	15.4	24.7	16.5	23.2	18.2
9	EH-2233	74.5	73.0	81.3	89.1	82.7	84.2	75.4	79.0	79.5	83.5	81.0	80.3	17.0	18.9	11.4	19.7	14.7	24.6	18.7	23.0	18.5
10	FH 3664	75.5	75.1	82.7	83.4	84.0	86.5	75.3	79.6	86.6	82.8	84.5	81.4	17.6	18.9	10.6	21.9	14.7	24.6	16.7	23.2	18.5
11	FH 3669	75.1	73.0	80.3	84.5	80.4	83.8	76.3	78.4	81.9	82.9	81.3	79.8	16.6	19.2	12.5	22.9	15.8	24.6	15.8	23.2	18.8
12	JH-31613	75.0	73.8	82.7	87.1	81.7	87.5	76.0	81.7	80.2	83.1	81.1	80.9	16.5	17.3	10.8	22.5	16.0	24.7	14.3	23.2	18.2
13	NMH-1258	75.9	75.0	81.3	85.7	83.3	88.5	76.4	80.7	80.8	82.9	82.0	81.1	16.8	18.1	11.4	19.5	13.9	24.6	15.9	22.9	17.9
14	MEH 1-12-13	77.6	71.7	82.7	84.8	81.8	81.4	75.5	79.4	78.6	83.3	81.6	79.8	16.8	18.2	12.8	19.3	14.7	24.2	17.2	23.4	18.3
15	Bio 9720	77.0	73.9	79.3	89.7	82.1	88.9	73.4	80.7	84.9	83.2	82.2	81.4	16.9	17.9	11.2	23.3	15.5	24.7	15.8	23.0	18.5
16	CMH10-531	73.4	71.7	81.0	85.2	82.8	86.1	76.8	79.0	81.0	83.2	80.1	80.0	17.2	18.4	11.3	22.3	16.4	24.8	16.3	23.3	18.7
CHECKS																						
17	Prakash	75.3	73.1	84.0	85.4	81.7	82.3	75.2	81.7	76.3	82.9	82.8	80.1	16.6	17.3	12.7	21.7	14.2	24.8	13.0	23.1	17.9
	Loc. Mean	75.3	73.3	81.7	85.8	83.0	85.1	75.1	80.4	79.8	83.1	82.5	80.5	16.8	18.2	11.3	21.1	15.1	24.6	15.7	23.2	18.2
	C.D. (5%)	2.17	1.53	4.29	5.64	2.27	4.62	1.43	3.26	7.78	0.49	0.47	1.46	0.68	1.61	1.82	1.03	1.37	0.50	0.26	0.55	0.85
	C.V. (%)	1.73	1.25	3.16	3.95	1.64	3.26	1.14	2.44	5.86	0.36	0.34	2.16	2.42	5.30	9.66	2.95	5.47	1.23	1.01	1.41	4.71
	F (Prob)	0.01	0.00	0.92	0.59	0.00	0.01	0.00	0.15	0.12	0.05	0.00	0.40	0.02	0.10	0.34	0.00	0.04	0.13	0.00	0.30	0.35

TABLE No. 18 (Cont..)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)												DAYS TO 50% POLLEN SHED													
													ZN 5												ZN 5		
		AMBI	BANS	BHIL	CHHI	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	Mean	AMBI	BANS	BHIL	CHHI	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	Mean
1	B-52	72.0	64.6	54.4	48.0	77.3	80.6	72.2	60.7	56.7	73.1	63.7	63.5	65.6	56.0	39.7	51.7	55.7	53.7	49.0	56.0	49.7	45.0	54.7	54.3	49.3	51.2
2	CMH 11-579	79.9	62.0	49.3	43.3	78.5	76.9	76.4	61.2	58.3	79.6	63.7	63.9	66.1	58.3	40.0	52.3	55.3	52.3	54.0	57.0	50.3	47.3	59.7	49.7	54.3	52.6
3	CMH 11-595	70.1	64.1	53.1	47.6	76.2	77.3	70.6	64.9	57.2	76.4	64.1	63.7	65.4	60.0	39.3	51.7	57.3	52.3	52.0	58.3	51.7	45.3	54.7	56.3	54.0	52.8
4	CMH 11-611	80.6	67.1	52.7	44.8	80.1	72.2	74.3	64.9	59.5	78.9	64.1	63.3	66.9	61.3	41.7	48.3	56.3	55.3	51.0	54.3	51.7	46.3	55.0	57.7	52.0	52.6
5	CMH 11-626	80.3	61.6	59.8	44.6	76.9	69.0	74.8	64.0	58.3	76.9	63.7	63.1	66.1	59.0	38.7	45.7	55.0	55.7	51.0	60.3	51.7	47.3	62.0	55.3	54.0	53.0
6	CMH 11-629	72.9	66.9	50.7	45.0	80.6	78.0	69.9	62.0	56.5	66.7	64.1	64.1	64.8	60.3	41.0	50.7	52.7	57.3	51.0	57.3	51.3	45.3	61.0	58.7	48.7	52.9
7	DMH-63	73.4	63.4	57.3	48.0	77.5	74.5	68.8	60.0	54.4	70.8	64.1	63.5	64.7	55.0	39.3	48.3	54.7	52.7	47.7	52.0	48.7	46.7	54.0	51.3	49.3	50.0
8	EH-2214	69.9	63.4	53.8	47.2	71.8	73.8	70.1	58.8	58.6	69.4	64.1	64.1	63.8	54.3	39.3	50.0	52.3	52.0	50.0	54.3	49.0	48.3	59.0	50.3	49.3	50.7
9	EH-2233	68.3	63.0	45.1	49.3	74.3	69.9	67.6	61.5	53.5	72.2	63.7	63.0	62.6	54.0	41.7	49.3	57.3	49.7	49.0	52.7	47.7	48.7	56.7	49.7	48.7	50.4
10	FH 3664	73.8	64.6	54.4	50.7	79.2	78.9	72.9	57.0	57.9	75.7	63.7	63.5	66.0	52.0	39.0	45.7	54.0	48.0	48.0	52.3	47.7	45.7	57.3	48.0	49.0	48.9
11	FH 3669	72.0	65.3	49.3	45.7	75.0	78.7	68.5	64.0	61.3	75.5	63.7	62.8	65.1	51.3	39.7	49.3	57.7	51.3	51.3	51.3	48.0	45.7	56.0	48.0	52.7	50.2
12	JH-31613	73.4	60.2	49.3	42.2	77.3	81.5	72.9	62.0	60.9	75.0	64.1	63.1	65.2	50.0	38.0	49.3	53.3	49.0	48.0	48.3	46.7	46.3	51.0	47.7	49.0	48.1
13	NMH-1258	66.0	66.7	55.6	43.0	76.9	69.9	66.7	61.7	57.6	72.2	63.7	63.1	63.6	54.0	39.0	49.3	56.0	53.7	51.0	50.0	49.7	46.7	63.0	49.0	52.0	51.1
14	MEH 1-12-13	61.8	66.7	53.6	43.0	72.0	68.3	65.3	59.5	56.5	76.6	63.4	63.0	62.5	50.0	39.0	47.3	56.3	49.0	44.0	47.7	45.7	46.0	54.7	46.0	49.0	47.9
15	Bio 9720	71.1	61.6	54.7	49.8	80.8	82.4	70.6	59.8	56.9	77.1	63.7	63.7	66.0	56.0	41.0	49.3	55.0	54.7	49.0	52.3	49.7	47.3	56.7	57.0	54.0	51.8
16	CMH10-531	80.1	67.1	53.8	50.0	100.2	82.9	78.5	61.7	58.1	78.5	64.4	62.8	69.8	59.3	40.3	50.0	57.0	53.0	52.0	56.0	51.7	47.0	56.0	49.0	49.0	51.7
CHECKS																											
17	Prakash	73.1	62.5	48.0	42.8	75.7	71.3	73.1	60.5	54.2	75.7	64.4	63.0	63.7	49.0	39.3	48.0	54.0	43.7	44.0	47.7	46.7	46.0	61.0	46.0	48.7	47.8
	Loc. Mean	72.9	64.2	52.6	46.2	78.2	75.7	71.4	61.4	57.4	74.7	63.9	63.4	65.2	55.3	39.8	49.2	55.3	52.0	49.5	53.4	49.3	46.5	57.2	51.4	50.8	50.8
	C.D. (5%)	6.67	7.05	10.44	10.69	17.56	7.17	4.06	3.61	1.91	9.19	0.67	0.66	2.59	0.87	1.47	5.22	5.48	1.80	0.34	1.06	1.40	1.36	2.44	1.18	0.62	1.81
	C.V. (%)	5.50	6.61	11.93	13.92	13.49	5.70	3.42	3.54	2.00	7.39	0.63	0.63	4.93	0.94	2.22	6.38	5.96	2.09	0.41	1.19	1.71	1.76	2.56	1.38	0.74	4.43
	F (Prob)	0.00	0.66	0.48	0.87	0.44	0.00	0.00	0.00	0.00	0.31	0.13	0.00	0.00	0.00	0.00	0.41	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 18 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% SILKING												DAYS TO 75% DRY HUSK												
		AMBI	BANS	BHIL	CHHI	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	Mean	AMBI	BANS	BHIL	CHHI	DAHO	GODH	JAGD	KOTA	RAIP	UDAI	UJJA	Mean
1	B-52	59.0	42.7	55.3	57.0	59.7	50.0	58.3	53.3	47.0	59.3	56.0	54.0	54.3	95.0	76.3	86.7	88.7	81.7	81.3	90.7	78.7	72.7	84.3	90.0	84.2
2	CMH 11-579	61.0	43.0	56.0	55.3	57.3	55.0	59.3	52.3	49.0	62.7	51.7	59.3	55.2	95.7	77.3	87.3	88.0	82.3	87.0	90.0	79.7	79.7	80.7	92.0	85.4
3	CMH 11-595	62.3	42.3	55.7	59.0	56.3	53.0	61.3	54.0	48.0	57.7	58.3	59.0	55.6	97.3	76.0	85.3	90.7	82.3	84.0	93.3	78.7	75.0	88.0	91.3	85.6
4	CMH 11-611	63.7	44.7	52.7	57.3	59.0	53.0	58.3	54.0	49.0	59.0	60.0	56.0	55.6	100.3	77.0	85.7	90.0	83.0	83.7	95.0	78.0	78.7	87.7	92.3	86.5
5	CMH 11-626	61.3	42.0	52.0	57.0	60.0	53.0	63.3	54.3	50.0	64.0	58.3	58.0	56.1	99.3	75.0	86.7	89.0	83.0	84.3	98.3	79.0	83.0	86.3	92.7	87.0
6	CMH 11-629	62.7	44.3	53.7	54.3	61.3	52.0	59.7	53.7	48.7	63.7	60.7	53.0	55.6	95.3	77.7	87.3	88.7	83.7	83.7	96.0	78.3	82.3	88.3	90.3	86.5
7	DMH-63	57.7	42.7	51.7	55.7	56.7	49.0	55.3	52.0	49.3	56.3	52.7	54.3	52.8	92.0	76.7	85.7	89.3	82.0	80.0	91.0	80.0	73.3	80.3	89.7	83.6
8	EH-2214	57.0	42.7	53.0	53.7	54.3	51.0	57.3	52.0	51.0	61.3	52.0	54.0	53.3	93.0	76.7	85.0	88.3	80.7	83.0	92.0	78.7	80.0	80.7	92.0	84.5
9	EH-2233	56.7	45.0	52.7	58.3	53.3	51.0	56.0	51.3	51.0	59.7	51.7	54.0	53.4	95.3	78.0	86.3	90.3	79.7	83.3	90.7	78.0	78.0	79.7	92.0	84.7
10	FH 3664	54.3	42.0	49.7	55.0	51.7	49.0	55.7	50.0	48.0	61.3	49.7	54.0	51.7	88.0	77.3	84.7	88.3	81.0	81.0	87.7	76.3	80.0	80.3	90.3	83.2
11	FH 3669	54.0	42.7	52.7	58.3	54.0	53.3	54.3	51.3	48.0	60.3	50.0	56.0	52.9	89.3	78.0	84.7	91.0	82.0	84.7	88.3	78.0	81.0	80.3	92.0	84.5
12	JH-31613	52.3	41.3	53.7	54.7	52.0	49.0	52.0	50.0	48.7	54.0	49.7	54.0	50.9	84.3	77.0	85.0	86.3	79.3	81.3	82.7	77.7	71.7	79.7	91.0	81.5
13	NMH-1258	57.0	42.0	52.7	57.7	57.7	52.3	53.7	53.0	49.0	65.3	51.0	56.0	53.9	92.0	76.0	86.0	89.0	84.0	83.3	90.0	80.0	84.0	80.0	90.0	84.9
14	MEH 1-12-13	53.3	42.0	51.0	57.0	52.0	46.0	51.7	48.3	49.3	60.0	48.0	54.0	51.1	85.0	76.3	84.0	88.7	82.3	78.7	83.3	79.0	81.0	79.3	91.0	82.6
15	Bio 9720	59.3	44.0	53.0	56.3	58.0	50.0	55.3	53.7	49.7	61.0	59.0	59.0	54.9	93.0	77.7	87.0	87.7	83.0	81.3	88.7	79.0	82.0	88.3	91.7	85.4
16	CMH10-531	62.0	43.7	53.7	57.7	56.7	54.0	58.7	54.7	49.0	60.7	51.0	54.0	54.6	93.3	79.0	85.0	89.3	80.3	85.7	90.3	79.3	81.7	79.7	92.0	85.1
CHECKS																										
17	Prakash	51.7	42.3	51.3	54.7	48.3	46.0	51.7	48.3	48.0	63.3	48.0	54.0	50.6	82.0	78.0	86.0	88.0	78.0	77.7	82.7	78.7	80.3	79.3	89.7	81.8
	Loc. Mean	58.0	42.9	53.0	56.4	55.8	51.0	56.6	52.1	49.0	60.6	53.4	55.5	53.7	92.4	77.1	85.8	88.9	81.7	82.6	90.0	78.6	79.1	82.5	91.2	84.5
	C.D. (5%)	1.49	1.50	4.88	6.01	1.89	0.33	0.94	1.37	1.51	2.10	1.30	0.33	1.73	1.15	3.15	2.08	5.25	1.13	1.45	1.86	1.80	8.40	1.16	0.67	2.06
	C.V. (%)	1.55	2.11	5.54	6.40	2.04	0.39	0.99	1.57	1.85	2.08	1.46	0.36	3.99	0.75	2.46	1.46	3.55	0.83	1.06	1.24	1.38	6.39	0.84	0.44	2.89
	F (Prob)	0.00	0.00	0.52	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.06	0.97	0.00	0.00	0.00	0.04	0.11	0.00	0.00	0.00

TABLE No. 18 (Cont..)

S.No.	PEDIGREE	PLANT HEIGHT(cm)												EAR HEIGHT(cm)											
		AMBI	BANS	BHIL	CHHI	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	Mean	AMBI	BANS	BHIL	CHHI	DAHO	GODH	JAGD	KOTA	RAIP	UDAI	Mean
1	B-52	185.8	192.0	173.0	161.7	187.7	203.3	175.2	172.3	168.3	186.3	180.0	248.3	186.2	61.4	115.7	86.7	70.0	89.3	102.0	57.7	80.0	56.7	78.3	79.8
2	CMH 11-579	210.2	213.7	166.7	158.3	211.0	198.3	186.3	201.7	180.0	206.0	198.3	239.3	197.5	71.8	136.0	83.0	66.7	109.7	100.3	64.1	81.7	72.3	90.0	87.6
3	CMH 11-595	208.9	221.7	175.7	150.0	212.0	204.3	183.7	195.3	181.7	176.7	181.7	253.3	195.4	82.0	140.3	87.7	71.7	117.7	111.3	75.6	81.7	62.8	86.7	91.8
4	CMH 11-611	220.4	233.7	173.7	151.7	207.0	218.0	190.6	202.3	178.3	203.6	181.7	235.7	199.7	73.3	139.0	88.3	63.3	109.0	119.3	67.5	81.7	74.7	93.3	90.9
5	CMH 11-626	204.2	205.7	177.0	153.3	209.3	207.3	191.8	189.0	166.7	174.9	180.0	238.3	191.5	69.5	120.7	101.7	65.0	107.3	141.0	65.0	78.3	66.9	85.0	90.0
6	CMH 11-629	206.7	199.0	174.0	176.7	208.3	210.7	183.5	151.3	168.3	191.0	195.0	248.7	192.8	74.3	127.0	80.7	78.3	109.7	110.7	69.6	70.0	59.5	98.3	87.8
7	DMH-63	197.7	203.7	176.0	153.3	192.0	199.7	186.1	178.7	165.0	188.0	201.7	235.3	189.8	73.1	128.3	97.3	61.7	88.7	98.0	66.6	65.0	62.3	98.3	83.9
8	EH-2214	200.1	213.3	178.0	168.3	202.7	209.7	184.9	180.7	181.7	173.1	181.7	234.3	192.4	70.5	131.7	96.7	68.3	102.7	140.7	62.9	83.3	52.5	96.7	90.6
9	EH-2233	178.5	215.3	176.0	173.3	204.3	182.3	172.6	176.3	170.0	185.2	193.3	226.3	187.8	62.2	127.0	91.3	71.7	102.3	91.3	56.5	71.7	56.5	96.7	82.7
10	FH 3664	177.2	200.3	173.0	145.0	181.0	187.0	170.4	166.7	175.0	162.3	188.3	248.3	181.2	57.3	107.0	88.7	68.3	86.0	91.0	52.6	75.0	50.4	86.7	76.3
11	FH 3669	188.3	205.3	194.3	183.3	180.0	189.0	177.8	172.3	183.3	196.1	195.0	216.7	190.1	56.3	122.3	99.7	88.3	75.7	91.7	50.2	88.3	57.0	93.3	82.3
12	JH-31613	190.5	205.3	169.0	161.7	205.3	196.0	168.2	166.7	163.3	165.3	198.3	237.3	185.6	63.1	117.0	76.3	76.7	89.3	130.7	56.9	71.7	50.6	83.3	81.6
13	NMH-1258	194.0	212.3	171.3	155.0	202.7	193.7	186.1	184.0	181.7	196.7	198.3	216.7	191.0	57.1	95.3	82.3	70.0	86.3	93.3	52.7	86.7	57.6	90.0	77.1
14	MEH 1-12-13	175.7	182.3	165.0	160.0	161.7	193.3	167.1	152.0	178.3	181.6	183.3	223.3	177.0	53.7	105.3	82.0	76.7	75.3	97.0	47.8	76.7	80.3	73.3	76.8
15	Bio 9720	179.5	187.3	184.7	151.7	204.3	198.0	181.3	184.3	178.3	169.6	196.7	251.0	188.9	70.0	98.7	97.0	71.7	95.3	95.3	63.3	78.3	52.8	93.3	81.6
16	CMH10-531	222.5	225.7	187.3	176.7	209.0	201.3	214.6	201.7	173.3	199.8	210.0	212.3	202.9	89.2	134.3	88.7	76.7	106.7	108.0	77.8	75.0	73.5	93.3	92.3
CHECKS																									
17	Prakash	180.2	199.0	170.0	163.3	175.7	189.0	175.5	161.0	158.3	208.4	178.3	249.3	184.0	63.9	118.3	88.0	71.7	77.7	103.0	58.4	68.3	71.3	86.7	80.7
	Loc. Mean	195.3	206.8	175.6	161.4	197.3	198.9	182.1	178.6	173.6	186.2	190.7	236.2	190.2	67.6	121.4	89.2	71.6	95.8	107.3	61.5	77.3	62.2	89.6	84.4
	C.D. (5%)	28.69	29.97	28.78	22.71	9.22	25.05	11.47	12.20	6.38	34.03	9.55	1.53	8.75	6.73	24.12	23.91	20.06	5.49	44.43	5.27	6.04	13.44	8.92	7.78
	C.V. (%)	8.83	8.71	9.86	8.46	2.81	7.57	3.79	4.11	2.21	10.99	3.01	0.39	5.71	5.99	11.95	16.12	16.85	3.44	24.89	5.16	4.70	12.99	5.99	10.19
	F (Prob)	0.02	0.11	0.89	0.06	0.00	0.33	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.01	0.71	0.62	0.00	0.36	0.00	0.00	0.00	0.00	0.00

TABLE No. 19 (Cont..)

SI	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid-43										GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM 9										
	No	PEDIGREE	ALMO	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	ZN 1 MEAN	ALMO	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA
1	APQH 9	-	-	-	-	-	-	-	-	9.5	-	13.1	-	-	1.7	3.1	-	3.3	-	11.8	0.2
2	Bio 9681-F	-	16.1	-	7.2	-	4.6	-	-	10.6	1.6	10.6	30.6	4.5	23.1	-	20.7	42.3	4	12.9	16.3
3	PMH1-F	-	15.8	-	-	16	1.1	-	-	17.9	-	-	30.2	2.4	9	20.1	16.7	13.9	5.6	20.4	14.3
4	PMH3-F	-	27.3	-	25.3	16.4	-	-	-	18.2	0.9	-	43.2	-	43.9	20.5	5.4	1.1	4.4	20.7	15.4
CHECKS																					
5	Vivek Hybrid-21	-	-	-	-	-	12.7	-	0.3	-	-	12.7	0.7	-	-	-	30	48	6.6	1.8	6
6	Vivek Hybrid-43	-	-	-	-	-	-	-	-	-	-	13.1	12.5	13.1	14.9	3.5	15.4	54.7	6.2	2.1	14.4
7	Vivek QPM 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

S.N	GRAIN SHELLING %										MOISTURE % AT HARVEST										
	PEDIGREE	ALMO	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	ZN 1 Mean	ALMO	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	ZN 1 Mean
1	APQH 9	83.3	82.2	78.5	78.8	83.1	77.0	79.3	76.7	78.9	79.8	18.5	23.7	21.3	27.7	26.9	31.6	19.6	24.7	24.0	24.2
2	Bio 9681-F	83.8	83.3	78.9	77.1	81.4	77.0	83.0	78.7	79.3	80.3	19.7	26.1	25.7	27.8	31.2	39.3	21.9	24.0	24.8	26.7
3	PMH1-F	80.1	78.6	81.4	75.6	82.7	78.1	81.0	80.3	79.4	79.7	23.9	25.9	27.3	28.6	30.3	39.0	20.1	25.7	25.0	27.3
4	PMH3-F	81.5	80.1	73.0	76.7	82.9	74.9	81.3	80.7	79.2	78.9	27.5	26.1	25.7	28.3	31.1	39.1	19.4	27.3	25.0	27.7
CHECKS																					
5	Vivek Hybrid-21	84.6	85.3	76.3	78.3	81.8	77.9	81.7	79.0	80.3	80.6	19.5	24.2	25.3	28.2	29.0	35.4	19.2	25.3	24.5	25.6
6	Vivek Hybrid-43	84.1	84.4	78.9	79.4	82.9	77.0	85.0	76.3	79.5	80.8	19.0	24.4	26.3	29.4	29.5	38.1	20.2	22.3	24.0	25.9
7	Vivek QPM 9	84.8	80.5	81.2	80.7	81.3	78.1	80.0	76.7	82.9	80.7	19.8	23.7	22.7	28.4	28.8	33.2	20.1	26.7	24.0	25.2
Loc. Mean		83.2	82.1	78.3	78.1	82.3	77.1	81.6	78.3	79.9	80.1	21.1	24.9	24.9	28.3	29.6	36.5	20.1	25.1	24.5	26.1
C.D. (5%)		1.40	-	2.01	2.99	1.30	0.73	1.93	6.64	2.10	1.73	1.70	2.52	4.59	0.80	2.36	2.28	0.56	3.04	0.35	1.49
C.V. (%)		0.94	-	1.44	1.56	0.89	0.54	1.33	4.76	1.48	2.28	4.51	5.70	10.37	1.15	4.49	3.51	1.57	6.81	0.80	6.01
F (Prob)		0.00	0.00	0.00	0.06	0.03	0.00	0.00	0.65	0.02	0.30	0.00	0.16	0.14	0.03	0.02	0.00	0.00	0.06	0.00	0.00

TABLE No. 19 (Cont..)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)										DAYS TO 50% POLLEN SHED									
		ALMO	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	Mean	ALMO	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	Mean
1	APQH 9	63.2	61.7	108.3	67.7	60.6	40.7	43.4	70.5	72.2	65.4	55.0	47.7	51.7	41.5	42.7	42.7	49.7	48.0	46.7	47.3
2	Bio 9681-F	60.4	53.9	109.0	70.8	50.5	38.9	43.1	68.4	72.2	63.0	61.3	54.7	52.7	46.0	49.0	50.0	53.3	50.0	53.3	52.3
3	PMH1-F	66.0	65.6	108.3	67.7	64.8	38.6	42.7	72.2	71.5	66.4	65.7	59.3	51.7	54.5	51.7	56.3	55.3	48.3	54.3	55.2
4	PMH3-F	64.2	70.6	109.7	72.9	62.0	37.7	42.0	71.5	74.3	67.2	69.3	60.7	51.3	58.0	54.0	56.7	57.7	48.7	54.7	56.8
CHECKS																					
5	Vivek Hybrid-21	64.2	61.1	111.8	70.8	55.6	41.0	42.7	68.1	75.0	65.6	56.0	49.7	52.3	41.5	43.3	44.7	49.3	46.3	51.0	48.2
6	Vivek Hybrid-43	61.5	71.7	108.3	72.9	51.9	38.3	43.4	72.6	76.4	66.3	58.3	52.7	48.7	42.5	49.0	48.7	51.0	49.0	52.3	50.2
7	Vivek QPM 9	63.2	62.8	111.1	68.8	62.0	40.1	42.4	70.8	75.0	66.2	55.0	47.3	49.3	41.0	44.0	43.0	49.7	48.0	49.7	47.4
Loc. Mean		63.2	63.9	109.5	70.2	58.2	39.3	42.8	70.6	73.8	65.7	60.1	53.1	51.1	46.4	47.7	48.9	52.3	48.3	51.7	51.1
C.D. (5%)		3.24	11.50	13.65	8.44	8.14	2.68	4.96	6.76	6.83	2.82	1.13	2.37	1.48	2.77	1.36	1.57	2.72	5.13	1.84	2.47
C.V. (%)		2.88	10.11	7.00	4.91	7.86	3.83	6.52	5.39	5.20	4.53	1.06	2.50	1.63	2.44	1.61	1.81	2.92	5.96	2.00	5.10
F (Prob)		0.05	0.07	0.99	0.58	0.01	0.11	0.99	0.69	0.67	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00
S.No.	PEDIGREE	DAYS TO 50% SILKING										DAYS TO 75% DRY HUSK									
		ALMO	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	Mean	ALMO	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	Mean
1	APQH 9	55.3	49.7	52.7	45.0	47.3	46.0	52.7	51.3	51.7	50.2	94.0	89.0	123.0	84.0	79.3	84.3	97.0	82.3	88.7	91.3
2	Bio 9681-F	62.7	57.0	53.7	49.0	53.7	54.0	56.7	53.0	58.0	55.3	103.0	97.7	123.0	87.5	84.3	92.3	99.0	82.3	91.0	95.6
3	PMH1-F	66.3	62.0	52.7	58.5	55.7	59.7	59.3	51.0	59.0	58.2	104.3	97.3	121.0	97.5	89.3	98.0	101.0	80.0	92.0	97.8
4	PMH3-F	70.3	63.7	52.3	61.0	57.7	60.3	61.3	51.7	59.7	59.8	111.7	99.7	121.0	101.0	93.0	98.7	102.3	78.7	92.3	99.8
CHECKS																					
5	Vivek Hybrid-21	57.3	51.7	53.3	44.5	47.7	48.0	52.7	49.3	55.0	51.1	96.3	94.7	123.0	83.5	81.3	86.3	98.3	83.3	89.7	92.9
6	Vivek Hybrid-43	59.0	54.7	49.7	46.0	53.3	52.3	54.3	51.3	57.0	53.1	98.3	92.0	109.0	85.0	87.7	90.7	100.0	83.7	90.0	92.9
7	Vivek QPM 9	56.3	49.3	50.3	45.0	48.7	46.3	53.3	50.0	54.3	50.4	96.0	94.0	109.3	84.0	81.0	84.7	97.3	83.0	89.3	91.0
Loc. Mean		61.0	55.4	52.1	49.9	52.0	52.4	55.8	51.1	56.4	54.0	100.5	94.9	118.5	88.9	85.1	90.7	99.3	81.9	90.4	94.5
C.D. (5%)		1.01	2.39	1.48	2.64	1.44	1.65	2.55	4.35	1.66	2.48	2.44	2.92	3.41	2.33	0.71	1.65	2.31	9.63	1.07	3.57
C.V. (%)		0.93	2.42	1.60	2.17	1.55	1.77	2.57	4.78	1.66	4.84	1.36	1.73	1.62	1.07	0.47	1.02	1.31	6.61	0.67	3.99
F (Prob)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00

TABLE No. 19 (Cont..)

S.No.	PEDIGREE	PLANT HEIGHT(cm)										EAR HEIGHT(cm)									
		ALMO	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	Mean	ALMO	BAJA	BARA	BERT	DHAU	KANG	POON	RAJO	UDHA	Mean
1	APQH 9	196.7	201.7	175.7	206.0	254.5	186.3	249.9	195.3	217.9	209.3	93.3	91.7	80.7	98.5	96.3	82.0	105.7	91.7	87.5	91.9
2	Bio 9681-F	211.7	223.3	179.3	205.0	286.1	226.0	258.7	192.7	186.7	218.8	100.0	105.0	76.7	92.0	112.8	96.7	111.7	92.0	90.6	97.5
3	PMH1-F	216.7	246.7	215.0	271.0	312.9	255.0	276.0	194.0	231.6	246.5	113.3	141.7	102.0	146.0	160.4	142.3	146.5	91.0	118.7	129.1
4	PMH3-F	211.7	236.7	187.0	249.0	313.5	259.7	264.3	193.7	207.9	235.9	120.0	136.7	94.0	138.5	156.4	154.7	144.7	90.0	86.1	124.6
CHECKS																					
5	Vivek Hybrid-21	190.0	196.7	174.7	203.5	261.4	206.7	254.0	184.3	175.7	205.2	78.3	86.7	64.3	93.5	83.3	91.7	95.7	85.0	65.7	82.7
6	Vivek Hybrid-43	175.0	176.7	148.0	186.5	240.9	185.0	217.7	187.0	180.5	188.6	78.3	76.7	52.3	75.5	88.2	85.7	85.3	92.3	73.4	78.6
7	Vivek QPM 9	186.7	205.0	166.7	202.5	260.2	191.7	253.1	186.7	184.0	204.1	76.7	96.7	66.7	102.0	101.9	81.0	98.0	88.0	63.7	86.1
Loc. Mean		198.3	212.4	178.0	217.6	275.6	215.8	253.4	190.5	197.7	215.5	94.3	105.0	76.7	106.6	114.2	104.9	112.5	90.0	83.7	98.6
C.D. (5%)		8.04	20.48	22.95	14.37	18.89	10.27	28.10	13.59	47.03	11.77	10.78	17.03	22.78	7.34	9.95	6.11	24.00	11.36	24.81	11.06
C.V. (%)		2.28	5.42	7.25	2.70	3.85	2.68	6.23	4.01	13.37	5.76	6.43	9.12	16.70	2.82	4.90	3.27	11.99	7.10	16.66	11.83
F (Prob)		0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.47	0.15	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.78	0.01	0.00

TABLE No. 20 (Cont..)

SI No	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid-43								GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM9							
	ZN 3								ZN 3							
PEDIGREE	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	MEAN	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	MEAN
1 AH-1212	-	-	-	-	-	-	-	-	-	-	-	-	-	10.7	-	-
2 BIO 9681-F	48.5	29.6	-	0.8	-	1	-	3.6	26.3	30.1	-	-	-	13.2	-	-
3 PMH1-F	91.2	0.3	-	-	-	-	28.2	10.2	62.6	0.6	-	-	-	6.4	9.6	4.7
4 PMH3-F	62.5	28	5.1	0.2	1.8	6.2	41.2	18.6	38.2	28.4	0.7	-	-	19.1	20.7	12.6
CHECKS																
5 Vivek Hybrid-21	20.5	1	9.4	7.9	-	1.3	-	-	2.5	1.4	4.8	2.7	-	13.6	-	-
6 Vivek Hybrid-43	-	-	-	-	-	-	-	-	-	0.3	-	-	-	12.1	-	-
7 Vivek QPM9	17.6	-	4.4	5.1	6.6	-	17	5.3	-	-	-	-	-	-	-	-

S.N	GRAIN SHELLING %								MOISTURE % AT HARVEST								STAND AT HARVEST ('000/ha)							
	ZN 3								ZN 3								ZN 3							
PEDIGREE	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	Mean	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	Mean	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	Mean
1 AH-1212	-	80.6	76.5	78.0	81.0	87.0	75.3	79.7	-	17.7	30.5	33.5	17.1	25.7	30.2	25.8	-	63.9	30.8	24.4	66.7	56.3	60.1	61.7
2 BIO 9681-F	78.3	78.9	76.0	84.0	76.8	84.4	74.8	79.0	22.2	17.5	27.7	29.7	17.2	23.7	30.2	24.0	64.9	65.3	37.8	36.7	66.7	58.9	63.5	63.9
3 PMH1-F	82.0	80.2	77.5	79.5	78.3	84.0	71.9	79.1	23.1	17.9	29.2	32.1	17.1	28.0	36.0	26.2	61.8	63.9	37.2	33.3	67.7	56.3	61.8	62.3
4 PMH3-F	79.1	79.8	75.5	79.5	77.9	86.8	72.5	78.7	22.3	17.4	30.4	35.4	17.1	21.9	36.4	25.8	67.7	62.8	43.9	43.3	69.1	58.0	63.5	64.2
CHECKS																								
5 Vivek Hybrid-21	73.2	81.5	77.0	80.0	83.6	85.5	73.6	79.2	21.1	17.7	26.9	28.9	16.8	24.5	27.5	23.3	68.4	64.6	50.6	49.4	64.9	56.0	61.1	63.0
6 Vivek Hybrid-43	76.7	79.4	76.5	80.5	80.7	84.4	72.7	78.7	21.1	17.3	27.5	29.5	17.0	24.5	22.3	22.7	63.9	62.5	40.8	36.4	70.8	59.2	59.4	63.2
7 Vivek QPM9	75.7	78.6	77.0	79.5	80.9	81.3	71.7	77.8	21.3	17.2	28.8	28.8	17.0	24.1	26.4	23.3	61.1	61.5	40.3	39.4	64.6	55.7	60.1	60.6
Loc. Mean	77.5	79.9	76.6	80.1	79.9	84.8	73.2	78.9	21.8	17.5	28.7	31.1	17.0	24.6	29.8	24.5	64.6	63.5	40.2	37.6	67.2	57.2	61.4	62.7
C.D. (5%)	1.78	-	3.59	2.66	0.68	1.70	-	2.08	1.33	0.00	1.61	1.33	-	0.37	1.49	2.28	5.01	4.15	14.62	16.50	1.55	5.37	5.13	2.29
C.V. (%)	1.17	-	2.64	1.87	0.48	1.13	-	2.43	3.10	0.00	3.15	2.40	-	0.84	2.80	8.60	3.94	3.68	20.45	24.68	1.30	5.28	4.70	2.80
F (Prob)	0.00	-	0.91	0.01	0.00	0.00	0.00	0.68	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.50	0.22	0.12	0.00	0.63	0.45	0.04

Locations Rejected due to High C.V.(i.e.> 20%) :
 CHHAPRA 20.5%: DHOLI 24.7%

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TABLE No. 20 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED							DAYS TO 50% SILKING							DAYS TO 75% DRY HUSK									
		BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	Mean	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	Mean	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	Mean
1	AH-1212	-	44.7	53.3	55.3	60.7	51.7	55.0	53.4	-	49.0	55.3	57.7	66.7	55.3	58.5	57.1	-	80.7	84.3	84.7	101.7	93.0	87.5	88.6
2	BIO 9681-F	47.3	48.0	49.7	51.7	64.3	52.0	55.0	52.6	49.3	51.7	51.7	54.3	68.7	56.0	58.0	55.7	74.3	81.7	86.0	83.0	103.7	94.3	87.0	87.1
3	PMH1-F	51.3	48.3	50.3	52.3	67.3	52.3	50.0	53.1	53.3	51.7	52.3	54.3	72.0	56.0	53.0	56.1	83.3	85.7	84.7	84.3	107.0	93.0	84.5	88.9
4	PMH3-F	53.7	48.0	53.0	55.0	68.7	51.0	49.0	54.0	55.7	51.7	55.0	57.0	74.0	56.0	53.0	57.5	86.7	85.3	83.0	86.0	109.0	91.3	86.0	89.6
	CHECKS																								
5	Vivek Hybrid-21	43.3	44.7	44.0	46.0	70.3	51.7	55.5	50.8	45.3	48.3	46.0	48.0	64.3	56.0	60.0	52.6	77.3	79.0	76.0	76.0	99.3	92.3	89.5	84.2
6	Vivek Hybrid-43	49.3	44.0	46.0	48.0	70.0	52.7	56.0	52.3	51.3	47.0	48.0	50.0	64.0	57.3	61.0	54.1	80.3	77.0	77.7	80.0	99.0	90.7	87.0	84.5
7	Vivek QPM9	42.7	43.3	45.7	47.7	58.7	57.0	56.0	50.1	44.7	47.0	47.7	50.0	63.0	62.3	61.0	53.7	74.7	77.0	78.0	75.7	98.0	91.7	89.5	83.5
	Loc. Mean	47.9	45.9	48.9	50.9	65.7	52.6	53.8	52.3	49.9	49.5	50.9	53.0	67.5	57.0	57.8	55.2	79.4	80.9	81.4	81.4	102.5	92.3	87.3	86.7
	C.D. (5%)	1.82	3.05	4.11	4.11	15.56	1.06	0.34	3.76	1.82	2.75	4.11	3.30	1.75	1.23	0.80	3.64	1.99	2.94	3.59	2.66	1.75	1.30	0.67	3.34
	C.V. (%)	1.93	3.74	4.73	4.54	13.31	1.14	0.35	6.63	1.85	3.12	4.54	3.50	1.46	1.21	0.78	6.08	1.27	2.05	2.48	1.84	0.96	0.79	0.43	3.55
	F (Prob)	0.00	0.01	0.00	0.00	0.56	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

S.No.	PEDIGREE	PLANT HEIGHT(cm)							EAR HEIGHT(cm)								
		BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	Mean	BAHR	BHUB	CHHA	DHOL	KORA	RANC	VARA	Mean
1	AH-1212	-	135.9	128.9	117.5	141.7	169.9	130.0	137.3	-	44.6	68.7	63.2	51.0	81.3	75.0	64.0
2	BIO 9681-F	176.9	168.1	172.7	161.3	216.7	182.8	110.0	169.8	35.7	68.9	84.3	78.8	92.3	81.1	60.0	71.6
3	PMH1-F	234.4	184.3	199.4	188.0	240.7	179.3	165.0	198.7	94.7	90.6	112.8	107.3	129.0	85.3	90.0	101.4
4	PMH3-F	186.4	167.6	183.6	172.2	221.3	185.3	160.0	182.3	71.9	77.9	100.7	95.2	107.3	89.5	80.0	88.9
	CHECKS																
5	Vivek Hybrid-21	172.1	130.3	168.4	157.0	180.3	185.1	182.5	168.0	38.3	52.2	66.0	60.5	66.0	87.1	107.5	68.2
6	Vivek Hybrid-43	144.0	143.8	145.2	133.8	192.3	181.2	165.0	157.9	43.9	47.0	62.5	57.0	75.0	81.2	95.0	65.9
7	Vivek QPM9	214.0	194.7	161.6	150.2	250.0	176.1	157.5	186.3	80.0	83.5	70.3	64.8	124.0	81.1	92.5	85.2
	Loc. Mean	188.0	160.7	165.7	154.3	206.1	180.0	152.9	171.5	60.8	66.4	80.8	75.3	92.1	83.8	85.7	77.9
	C.D. (5%)	3.06	11.72	17.41	17.41	3.70	10.51	18.49	20.38	2.74	6.20	11.24	11.24	4.03	7.18	16.84	16.19
	C.V. (%)	0.83	4.10	5.91	6.34	1.01	3.28	6.80	10.96	2.30	5.25	7.83	8.40	2.46	4.82	11.04	19.17
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	

TABLE No. 21: PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS AT ARBHAVI, COIMBATORE, DHARWAD, DHULE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, NASIK, PATANCHERU, VAGARAI, VRDCD IN AVT1 TRIAL No. 68Z4 (AVT1-EX-Z4) DURING KHARIF (2014)

SI No	GRAIN YIELD (kg/ha) AT 15% MOISTURE														ZN 4												
	ARBH R		COIM R		DHAR R		DHUL R		HYDE R		KARI R		KOLH R		MAND R		NASI R		PATA R		VAGA R		VRDC R		MEAN R		
1	APQH 9	8601	5	9801	5	5867	4	2432	7	5511	3	5608	6	4200	4	6784	6	9368	7	2498	6	2541	6	6102	7	5776	7
2	KH-7502	8635	4	11034	2	5689	5	3217	4	7061	1	7473	2	4050	6	8368	1	11635	4	4982	3	3142	3	12266	1	7296	2
3	PMH1-F	7268	6	10660	3	5867	3	3453	3	5789	2	7587	1	5127	1	7652	4	12902	2	5243	1	2338	7	10863	3	7062	3
4	PMH3-F CHECKS	12357	1	11390	1	7178	1	2677	5	5482	4	7296	3	4564	2	8078	3	14932	1	5212	2	3319	1	12005	2	7874	1
5	Vivek Hybrid-21	9115	3	10504	4	5978	2	3535	2	4467	7	5799	5	4133	5	8178	2	11664	3	1662	7	3174	2	7237	5	6287	4
6	Vivek Hybrid-43	5672	7	9420	6	4733	7	3561	1	5110	5	6508	4	3719	7	7245	5	10657	6	4215	4	2823	4	9383	4	6087	5
7	Vivek QPM 9	9585	2	8515	7	4822	6	2471	6	4646	6	5105	7	4330	3	6159	7	11219	5	3528	5	2580	5	7083	6	5837	6
	Location Mean	8748		10189		5733		3049		5438		6482		4303		7495		11768		3906		2845		9277		6603	
	C.D. (5%)	2706		752		1851		911		1279		583		1122		644		2408		947		537		2364		1342	
	C.V. (%)	17.21		4.11		17.97		16.62		13.09		5.01		14.51		4.78		11.39		13.49		10.51		14.18		-	
	F (Prob)	0.004		0		0.146		0.069		0.01		0		0.191		0		0.006		0		0.007		0		-	
	Plot Size	9.6		9.6		12		14.4		12		12		12		11.2		9.6		12		9.6		9.6		-	
	AGRONOMY DATA																										
	Sowing Date	14-07		15-07		19-07		22-07		9-07		8-07		18-07		29-07		28-07		25-06		24-07		23-06		-	
	Harvest Date	31-10		15-10		-		10-11		18-10		25-10		25-11		19-12		13-11		18-10		18-11		17-11		-	
	Irrigation Nos	8		8		-		-		3		-		-		7		-		-		7		2		-	
	Fertilizer Applied N	150		150		-		120		200		200		120		150		120		-		150		150		-	
	Fertilizer Applied P	75		75		-		60		60		60		60		75		60		-		75		75		-	
	Fertilizer Applied K	37.5		75		-		40		50		50		40		40		40		-		75		37.5		-	

TABLE No. 21 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid-21											GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid-43															
		ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	MEAN	ZN 4	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	MEAN
1	APQH 9	-	-	-	-	23.4	-	1.6	-	-	50.3	-	-	-	51.6	4.1	23.9	-	7.8	-	12.9	-	-	-	-	-	-	
2	KH-7502	-	5	-	-	58.1	28.9	-	2.3	-	199.8	-	69.5	16	52.2	17.1	20.2	-	38.2	14.8	8.9	15.5	9.2	18.2	11.3	30.7	19.9	19.9
3	PMH1-F	-	1.5	-	-	29.6	30.8	24.1	-	10.6	215.5	-	50.1	12.3	28.1	13.2	23.9	-	13.3	16.6	37.9	5.6	21.1	24.4	-	15.8	16	16
4	PMH3-F	35.6	8.4	20.1	-	22.7	25.8	10.4	-	28	213.7	4.6	65.9	25.2	117.8	20.9	51.6	-	7.3	12.1	22.7	11.5	40.1	23.6	17.6	27.9	29.4	29.4
CHECKS																												
5	Vivek Hybrid-21	-	-	-	-	-	-	-	-	-	-	-	-	-	60.7	11.5	26.3	-	-	-	11.1	12.9	9.4	-	12.4	-	3.3	3.3
6	Vivek Hybrid-43	-	-	-	0.8	14.4	12.2	-	-	-	153.7	-	29.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Vivek QPM 9	5.2	-	-	-	4	-	4.8	-	-	112.3	-	-	-	69	-	1.9	-	-	-	16.4	-	5.3	-	-	-	-	-
GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM 9																												
SI No	PEDIGREE	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	MEAN	ZN 4													
1	APQH 9	-	15.1	21.7	-	18.6	9.8	-	10.1	-	-	-	-	-														
2	KH-7502	-	29.6	18	30.2	52	46.4	-	35.9	3.7	41.2	21.8	73.2	25														
3	PMH1-F	-	25.2	21.7	39.8	24.6	48.6	18.4	24.2	15	48.6	-	53.4	21														
4	PMH3-F	28.9	33.8	48.8	8.4	18	42.9	5.4	31.2	33.1	47.8	28.6	69.5	34.9														
CHECKS																												
5	Vivek Hybrid-21	-	23.4	24	43.1	-	13.6	-	32.8	4	-	23	2.2	7.7														
6	Vivek Hybrid-43	-	10.6	-	44.2	10	27.5	-	17.6	-	19.5	9.4	32.5	4.3														
7	Vivek QPM 9	-	-	-	-	-	-	-	-	-	-	-	-	-														

TABLE No. 21 (Cont..)

S.No.	PEDIGREE	GRAIN SHELLING %											STAND AT HARVEST ('000/ha)													
													ZN 4													
		ARBH	COIM	DHUL	HYDE	KARI	KOLH	MAND	NASI	VAGA	VRDC	Mean	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	Mean	
1	APQH 9	87.3	84.2	80.8	79.1	82.4	85.8	82.4	90.3	70.5	87.6	83.0	64.6	65.6	52.5	53.9	66.7	44.7	53.3	58.6	81.9	20.0	56.6	57.3	56.3	
2	KH-7502	84.0	79.7	81.6	78.9	80.2	80.6	83.0	90.6	76.6	89.2	82.4	75.0	66.7	53.6	54.4	63.1	51.9	51.9	60.7	81.6	33.9	57.6	65.3	59.6	
3	PMH1-F	83.6	77.1	81.0	75.4	76.9	78.3	81.7	86.8	70.7	83.5	79.5	70.5	66.3	58.9	55.3	65.3	57.8	53.3	59.2	83.0	35.0	56.6	54.5	59.6	
4	PMH3-F	84.4	82.0	79.8	75.1	78.4	65.4	83.1	96.6	79.1	85.4	80.9	75.0	66.7	55.8	54.6	64.7	59.2	53.3	63.1	82.3	36.1	57.3	64.9	61.1	
CHECKS																										
5	Vivek Hybrid-21	84.7	84.9	84.5	81.1	85.0	83.9	83.0	87.4	75.4	87.4	83.7	71.9	66.3	52.2	54.2	69.2	50.0	52.8	59.2	80.6	11.9	58.0	58.7	57.1	
6	Vivek Hybrid-43	77.1	80.9	81.9	77.0	82.7	82.9	79.1	94.4	75.8	85.3	81.7	71.2	65.6	57.5	54.4	63.3	50.8	53.3	58.9	81.6	31.7	55.9	71.5	59.7	
7	Vivek QPM 9	84.7	83.1	82.3	78.3	85.1	86.0	81.6	94.8	74.5	86.8	83.7	75.3	66.3	48.9	54.6	62.8	46.9	51.9	60.7	80.6	28.1	56.9	59.0	57.7	
Loc. Mean		83.7	81.7	81.7	77.8	81.5	80.4	82.0	91.5	74.6	86.5	82.1	71.9	66.2	54.2	54.5	65.0	51.6	52.9	60.1	81.6	28.1	57.0	61.6	58.7	
C.D. (5%)		3.28	1.27	3.31	3.24	1.78	0.28	1.34	4.42	4.94	3.52	2.84	11.67	0.70	9.86	1.48	7.40	1.91	2.25	3.06	2.58	8.32	6.61	12.49	2.95	
C.V. (%)		2.21	0.88	2.28	2.34	1.23	0.20	0.92	2.71	3.72	2.29	3.86	9.12	0.59	10.23	1.53	6.40	2.08	2.40	2.87	1.78	16.66	6.52	11.40	6.16	
F (Prob)		0.00	0.00	0.16	0.02	0.00	0.00	0.00	0.00	0.02	0.07	0.04	0.46	0.03	0.39	0.57	0.51	0.00	0.59	0.08	0.41	0.00	0.99	0.13	0.02	
S.No.	PEDIGREE	MOISTURE % AT HARVEST											DAYS TO 50% POLLEN SHED													
													ZN 4													
		ARBH	COIM	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	Mean	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	Mean
1	APQH 9	25.8	18.8	11.2	20.6	7.8	13.8	12.9	14.8	19.1	14.8	13.1	15.7	54.7	46.0	52.0	47.0	49.7	41.0	50.0	44.7	57.0	44.7	44.0	51.5	48.5
2	KH-7502	22.2	24.0	12.9	20.8	12.7	12.6	14.1	10.0	25.7	20.5	12.7	17.1	53.0	50.3	57.7	47.3	56.0	46.7	63.0	48.0	58.3	51.3	48.3	56.5	53.0
3	PMH1-F	25.1	24.1	12.0	28.5	17.6	17.1	15.4	12.0	29.1	21.1	13.1	19.5	54.7	52.0	58.3	48.3	58.0	52.3	54.0	52.0	58.3	53.0	54.3	59.5	54.6
4	PMH3-F	29.4	25.2	20.0	25.1	16.6	17.4	13.5	14.3	28.5	21.7	12.3	20.4	58.7	54.0	57.3	48.3	59.0	52.7	54.0	53.0	60.3	54.0	53.0	60.5	55.4
CHECKS																										
5	Vivek Hybrid-21	27.1	22.3	11.0	20.3	12.7	14.6	13.1	13.8	23.0	18.2	12.7	17.2	56.0	46.0	54.3	44.0	49.3	40.3	53.0	46.0	57.0	44.7	44.0	52.0	48.9
6	Vivek Hybrid-43	22.6	21.6	10.8	25.1	12.0	12.8	13.4	13.9	24.8	18.0	12.6	17.0	52.0	47.0	53.0	46.0	51.0	43.7	55.0	45.3	56.7	47.0	45.0	53.5	49.6
7	Vivek QPM 9	24.9	21.2	13.1	20.7	7.9	15.1	13.8	11.8	20.9	18.9	12.4	16.4	55.3	46.0	54.7	46.3	50.3	40.7	51.0	44.0	57.0	46.0	44.0	51.0	48.9
Loc. Mean		25.3	22.4	13.0	23.0	12.5	14.7	13.7	12.9	24.5	19.0	12.7	17.6	54.9	48.8	55.3	46.8	53.3	45.3	54.3	47.6	57.8	48.7	47.5	54.9	51.3
C.D. (5%)		3.39	1.05	1.65	3.35	1.65	0.93	0.73	3.20	1.36	1.61	0.93	1.73	6.63	0.39	3.54	1.03	1.19	1.31	-	1.71	1.74	0.76	1.04	0.70	1.71
C.V. (%)		7.53	2.64	7.12	8.18	7.44	3.53	2.97	13.90	3.14	4.77	4.12	11.54	6.79	0.45	3.60	1.23	1.25	1.62	-	2.02	1.69	0.88	1.23	0.72	4.10
F (Prob)		0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.46	0.00	0.47	0.00	0.01	0.00	0.00	0.00	-	0.00	0.01	0.00	0.00	0.00	0.00

TABLE No. 21 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% SILKING											PLANT HEIGHT(cm)														
		ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC		
		ZN 4											ZN 4														
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean			
1	APQH 9	54.3	48.0	54.3	49.3	49.7	43.0	51.0	46.0	58.0	45.3	47.0	52.0	49.8	173.5	186.9	195.7	241.3	235.7	158.3	146.7	191.3	203.0	219.3	139.5	168.1	188.3
2	KH-7502	53.3	52.3	60.3	50.3	56.7	49.0	64.0	50.0	59.3	53.3	52.3	57.5	54.9	165.5	190.8	199.3	228.0	238.0	170.0	155.0	198.0	188.2	195.3	131.5	181.3	186.8
3	PMH1-F	57.0	55.0	61.0	51.0	59.7	53.7	55.0	55.0	59.7	55.0	58.3	60.5	56.7	172.0	196.3	211.3	280.0	253.3	205.0	165.0	209.3	187.8	234.7	132.0	202.8	204.1
4	PMH3-F	60.0	57.0	60.7	51.7	61.3	53.3	55.0	56.0	61.3	56.0	57.3	62.0	57.6	219.5	183.1	219.7	284.7	261.3	205.0	150.0	224.3	164.2	234.3	135.4	203.1	207.1
CHECKS																											
5	Vivek Hybrid-21	56.0	48.0	56.3	47.0	50.7	41.3	54.0	48.7	58.7	46.7	47.0	52.5	50.6	177.0	173.0	194.3	225.3	227.3	153.3	128.3	189.0	177.8	165.3	135.6	168.6	176.3
6	Vivek Hybrid-43	51.7	50.0	55.0	48.7	53.3	46.3	56.0	47.3	58.0	49.7	48.7	55.0	51.6	164.5	166.7	173.3	192.7	179.3	125.0	98.3	198.0	146.3	147.3	123.1	141.2	154.7
7	Vivek QPM 9	53.7	48.0	56.7	49.0	51.3	42.0	52.0	45.3	58.3	51.3	47.7	52.0	50.6	201.0	186.7	195.0	235.3	229.3	146.7	141.7	194.7	172.1	181.0	133.5	174.3	182.6
Loc. Mean		55.1	51.2	57.8	49.6	54.7	47.0	55.3	49.8	59.0	51.0	51.2	55.9	53.1	181.9	183.3	198.4	241.0	232.0	166.2	140.7	200.7	177.1	196.8	132.9	177.1	185.7
C.D. (5%)		7.21	0.39	3.18	1.07	1.48	1.78	-	2.10	1.58	4.84	1.14	0.87	1.74	39.52	9.70	27.45	5.64	12.44	9.57	20.47	45.97	15.79	38.46	23.43	14.05	11.70
C.V. (%)		7.35	0.43	3.10	1.22	1.52	2.13	-	2.38	1.51	5.32	1.25	0.87	4.02	12.21	2.97	7.78	1.32	3.01	3.24	8.18	12.88	5.01	10.99	9.91	4.46	7.73
F (Prob)		0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.08	0.00	0.07	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.83	0.00	0.00

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK											EAR HEIGHT(cm)														
		COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC	ARBH	COIM	DHAR	DHUL	HYDE	KARI	KOLH	MAND	NASI	PATA	VAGA	VRDC			
		ZN 4											ZN 4														
Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
1	APQH 9	82.0	87.3	78.7	81.3	73.0	81.0	89.3	88.3	74.3	78.3	98.0	82.9	78.0	104.7	87.7	98.0	100.0	71.7	56.7	98.7	104.3	81.0	74.2	67.0	88.7	
2	KH-7502	86.3	91.7	78.7	89.7	83.3	94.0	92.7	89.7	85.0	83.3	105.5	89.1	83.5	95.4	98.0	85.3	102.0	70.0	61.7	91.3	102.7	85.7	69.9	74.3	87.5	
3	PMH1-F	92.0	92.7	79.0	91.0	88.7	85.0	90.0	91.3	84.7	90.0	109.5	90.3	80.5	121.1	110.7	130.0	123.3	110.0	88.3	109.3	134.3	115.7	81.7	97.0	113.3	
4	PMH3-F	95.0	92.3	78.7	94.3	88.3	85.0	92.7	93.7	85.3	88.7	109.5	91.2	130.0	119.8	123.7	117.7	118.7	110.0	56.7	128.0	129.7	121.0	91.7	102.7	116.3	
CHECKS																											
5	Vivek Hybrid-21	82.0	87.3	77.0	79.3	71.3	84.0	89.3	95.0	75.0	78.3	100.0	83.5	89.5	86.0	85.7	82.7	103.3	63.3	43.3	81.7	76.3	62.7	70.0	58.0	77.0	
6	Vivek Hybrid-43	84.0	87.3	78.7	87.3	76.3	86.0	92.0	90.3	81.3	80.0	104.5	86.2	81.0	71.0	83.3	75.0	94.7	51.7	36.7	102.0	74.3	57.3	63.5	51.4	72.4	
7	Vivek QPM 9	82.0	87.3	78.0	82.3	72.0	82.0	90.0	90.7	75.7	79.7	98.5	83.5	104.5	93.5	88.7	91.7	107.3	58.3	50.0	93.0	87.3	72.7	69.8	69.5	83.2	
Loc. Mean		86.2	89.4	78.4	86.5	79.0	85.3	90.9	91.3	80.2	82.6	103.6	86.7	92.4	98.8	96.8	97.2	107.0	76.4	56.2	100.6	101.3	85.1	74.4	74.3	91.2	
C.D. (5%)		0.39	1.79	2.88	2.03	1.88	-	2.15	1.53	3.75	2.04	2.04	2.51	39.16	6.37	19.29	6.64	5.75	6.63	21.11	32.60	7.04	9.63	19.73	15.57	7.08	
C.V. (%)		0.25	1.12	2.06	1.32	1.33	-	1.33	0.94	2.63	1.39	1.11	3.40	23.81	3.63	11.20	3.84	3.02	4.88	21.12	18.22	3.91	6.36	14.91	11.78	8.65	
F (Prob)		0.00	0.00	0.78	0.00	0.00	-	0.01	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.12	0.00	0.00	

Locations Rejected due to High C.V.(i.e.> 20%): ARBHAVI 23.8%: KOLHAPUR 21.1%

TABLE No. 22: PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSAWARA, BHILODA, DAHOD, GODHRA, JAGDALPUR, JHABUA, KOTA, RAIPUR, UDAIPUR, UJJAIN IN AVT1 TRIAL No. 68Z5(AVT1-EX-Z5) DURING KHARIF (2014)

Sl No	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 5 MEAN R
	AMBI R	BANS R	BHIL R	DAHO R	GODH R	JAGD R	JHAB R	KOTA R	RAIP R	UDAI R	UJJA R		
1 AH-1212	2223	7 4654	5 1774	7 2261	7 862	7 1875	7 4429	7 544	7 1924	7 1999	6 4826	5 2488	7
2 KH-7502	8575	2 6180	1 3810	3 4857	3 2625	4 7465	2 4870	5 2673	2 5103	5 5736	1 5342	3 5203	1
3 SeedTech-F	9166	1 4237	7 4229	1 4452	5 2252	6 7864	1 4680	6 3109	1 5363	2 3486	4 5930	1 4979	2
4 PMH3-F	8123	3 4273	6 4051	2 5277	2 3041	3 7272	3 5137	4 2067	3 5780	1 4317	3 4641	6 4907	3
CHECKS													
5 Vivek Hybrid-21	6043	5 4953	4 3370	4 6444	1 3399	2 5643	5 5384	3 1031	4 4848	6 3228	5 5049	4 4490	5
6 Vivek Hybrid-43	6496	4 6156	2 2658	5 4190	6 2572	5 6096	4 6014	1 789	6 5189	4 4883	2 5542	2 4599	4
7 Vivek QPM9	5312	6 5568	3 2160	6 4604	4 3631	1 5068	6 5633	2 916	5 5257	3 1364	7 4027	7 3958	6
Location Mean	6562	5146	3150	4584	2626	5898	5164	1590	4781	3573	5051	4375	
C.D. (5%)	825	1000	1132	1236	316	661	319	273	1905	593	418	789	
C.V. (%)	6.99	10.82	19.99	15	6.69	6.24	3.44	9.57	22.17	9.24	4.61	-	
F (Prob)	0	0.002	0.001	0	0	0	0	0	0.009	0	0		
Plot Size	9.6	9.6	12	9.6	14.4	9.6	10.5	9.6	9.6	9.6	12	-	
AGRONOMY DATA													
Sowing Date	8-07	13-07	24-06	9-07	15-07	28-06	10-07	23-07	7-04	7-03	18-07	-	
Harvest Date	-	16-10	-	14-10	4-11	-	24-10	4-11	16-10	10-11	2-11	-	
Irrigation Nos	-	-	-	1	-	-	-	2	-	1	-	-	
Fertilizer Applied N	120	150	-	100	100	100	100	90	100	120	100	-	
Fertilizer Applied P	60	80	-	50	50	60	60	30	60	90	60	-	
Fertilizer Applied K	40	-	-	-	-	40	40	-	40	-	40	-	

TABLE No. 22 (Cont..)

SI	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid-21												ZN 5	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid-43												ZN 5	
No	PEDIGREE	AMBI	BANS	BHIL	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	MEAN	AMBI	BANS	BHIL	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	MEAN		
1	AH-1212	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2	KH-7502	41.9	24.8	13.1	-	-	32.3	-	159.4	5.3	77.7	5.8	15.9	32	0.4	43.4	15.9	2.1	22.5	-	238.9	-	17.5	-	13.1		
3	SeedTech-F	51.7	-	25.5	-	-	39.3	-	201.6	10.6	8	17.4	10.9	41.1	-	59.1	6.3	-	29	-	294.2	3.3	-	7	8.3		
4	PMH3-F	34.4	-	20.2	-	-	28.9	-	100.6	19.2	33.7	-	9.3	25.1	-	52.4	25.9	18.2	19.3	-	162.1	11.4	-	-	6.7		
CHECKS																											
5	Vivek Hybrid-21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.8	53.8	32.2	-	-	30.7	-	-	-	-		
6	Vivek Hybrid-43	7.5	24.3	-	-	-	8	11.7	-	7	51.3	9.8	2.4	-	-	-	-	-	-	-	-	-	-	-	-		
7	Vivek QPM9	-	12.4	-	-	6.8	-	4.6	-	8.4	-	-	-	-	-	-	9.9	41.2	-	-	16.1	1.3	-	-	-		
SI	GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM9												ZN 5													ZN 5	
No	PEDIGREE	AMBI	BANS	BHIL	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	MEAN													MEAN	
1	AH-1212	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	KH-7502	61.4	11	76.4	5.5	-	47.3	-	192	-	320.6	32.7	31.5													31.5	
3	SeedTech-F	72.5	-	95.8	-	-	55.2	-	239.6	2	155.6	47.3	25.8													25.8	
4	PMH3-F	52.9	-	87.6	14.6	-	43.5	-	125.8	10	216.5	15.3	24													24	
CHECKS																											
5	Vivek Hybrid-21	13.8	-	56	40	-	11.3	-	12.6	-	136.7	25.4	13.4													13.4	
6	Vivek Hybrid-43	22.3	10.6	23	-	-	20.3	6.8	-	-	258.1	37.6	16.2													16.2	
7	Vivek QPM9	-	-	-	-	-	-	-	-	-	-	-	-													-	
GRAIN SHELLING %														MOISTURE % AT HARVEST													
S.N	PEDIGREE	AMBI	BANS	BHIL	DAHO	GODH	JAGD	JHAB	RAIP	UDAI	UJJA	Mean	ZN 5	BANS	BHIL	DAHO	GODH	JHAB	KOTA	UDAI	Mean	ZN 5					
1	AH-1212	78.1	73.6	86.4	84.9	89.5	75.5	82.5	84.1	75.3	84.3	81.4	81.4	16.3	16.2	17.5	15.7	23.1	12.3	17.7	17.0	17.0					
2	KH-7502	78.9	72.0	83.5	81.4	86.8	76.5	81.7	85.7	79.8	86.2	81.2	81.2	16.1	16.8	18.6	15.8	23.2	14.4	19.1	17.7	17.7					
3	SeedTech-F	77.2	73.0	84.3	83.5	83.8	74.0	80.7	83.1	77.8	86.2	80.3	80.3	16.3	18.4	24.9	15.7	23.1	15.1	19.0	18.9	18.9					
4	PMH3-F	76.5	71.9	83.2	82.4	82.7	75.1	78.0	81.6	80.2	85.4	79.7	79.7	16.3	19.0	25.8	16.2	23.3	15.1	19.7	19.3	19.3					
CHECKS																											
5	Vivek Hybrid-21	78.8	71.5	85.9	85.2	87.2	76.2	83.6	84.8	76.5	85.2	81.5	81.5	16.5	15.9	14.4	14.8	23.4	12.4	16.3	16.2	16.2					
6	Vivek Hybrid-43	79.7	71.9	86.7	82.8	87.6	78.4	79.4	83.9	80.2	84.3	81.5	81.5	16.4	17.0	18.5	15.1	23.2	12.3	15.6	16.9	16.9					
7	Vivek QPM9	78.1	68.6	84.5	81.5	77.3	74.5	75.4	84.8	74.5	83.0	78.2	78.2	16.2	16.0	20.6	13.7	23.3	12.5	15.4	16.8	16.8					
Loc. Mean		78.2	71.8	84.9	83.1	85.0	75.7	80.2	84.0	77.7	84.9	80.6	80.6	16.3	17.0	20.0	15.3	23.2	13.4	17.5	17.5	17.5					
C.D. (5%)		2.77	2.22	1.36	2.99	6.61	1.45	2.75	2.60	0.24	1.42	1.59	1.59	0.55	1.50	0.93	0.63	0.64	0.70	0.43	1.67	1.67					
C.V. (%)		1.99	1.74	0.90	2.02	4.37	1.07	1.93	1.74	0.18	0.94	2.20	2.20	1.90	4.96	2.61	2.33	1.54	2.93	1.39	8.78	8.78					
F (Prob)		0.28	0.01	0.00	0.08	0.03	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00					

TABLE No. 22 (Cont..)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)											DAYS TO 50% POLLEN SHED											
		AMBI	BANS	BHIL	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	Mean	AMBI	BANS	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	Mean
1	AH-1212	43.8	61.8	37.5	74.0	28.5	46.2	60.6	41.3	73.6	38.2	61.4	51.5	51.7	40.3	53.3	49.0	49.0	47.7	43.0	57.3	57.3	48.7	49.7
2	KH-7502	76.4	54.9	57.5	75.7	46.1	75.3	61.0	59.4	76.4	60.1	61.4	64.0	50.3	39.0	51.0	48.0	48.7	48.7	47.0	57.3	52.0	48.0	49.0
3	SeedTech-F	80.9	60.1	52.5	74.0	43.5	77.4	61.6	59.4	73.6	51.7	62.2	63.4	54.0	39.0	60.0	49.3	51.3	52.0	47.3	62.7	57.3	53.0	52.6
4	PMH3-F	68.4	63.2	53.1	73.3	43.1	70.8	62.2	58.7	78.5	60.1	62.2	63.0	52.0	39.0	56.7	52.0	51.7	52.7	48.0	59.0	54.7	49.0	51.5
CHECKS																								
5	Vivek Hybrid-21	71.5	66.7	44.7	80.9	46.1	74.3	61.3	43.1	81.6	55.9	63.1	62.6	47.0	41.3	45.0	42.0	45.7	44.3	41.7	47.7	49.3	43.3	44.7
6	Vivek Hybrid-43	70.8	59.4	38.6	78.8	36.8	71.9	63.2	42.0	69.8	59.4	61.9	59.3	47.0	35.7	45.3	44.0	46.7	46.0	42.3	51.7	51.0	44.3	45.4
7	Vivek QPM9	77.4	53.1	43.3	73.6	39.8	77.1	62.9	49.7	78.8	30.9	62.5	59.0	45.3	39.0	45.0	43.0	44.7	44.3	41.7	52.0	48.3	44.0	44.7
Loc. Mean		69.9	59.9	46.7	75.7	40.5	70.4	61.8	50.5	76.0	50.9	62.1	60.4	49.6	39.0	50.9	46.8	48.2	48.0	44.4	55.4	52.9	47.2	48.2
C.D. (5%)		4.84	8.82	7.85	7.47	3.44	3.62	3.06	4.64	8.49	3.54	0.99	5.51	1.39	1.62	2.08	0.78	1.12	1.51	1.70	2.44	1.25	1.39	1.78
C.V. (%)		3.89	8.28	9.44	5.54	4.77	2.89	2.79	5.17	6.28	3.91	0.89	10.70	1.58	2.33	2.30	0.93	1.31	1.77	2.15	2.48	1.33	1.66	4.12
F (Prob)		0.00	0.07	0.00	0.26	0.00	0.00	0.50	0.00	0.13	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	0.00
S.No.	PEDIGREE	DAYS TO 50% SILKING											DAYS TO 75% DRY HUSK											
		AMBI	BANS	BHIL	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	Mean	AMBI	BANS	DAHO	GODH	JAGD	KOTA	RAIP	UDAI	UJJA	Mean	
1	AH-1212	54.7	43.0	51.7	56.3	50.3	53.7	50.3	45.0	61.3	59.0	54.0	52.7	89.3	71.7	83.3	81.3	90.0	78.0	75.3	82.7	84.0	81.7	
2	KH-7502	53.3	42.0	54.7	53.3	51.0	53.0	50.7	49.3	61.3	53.3	53.0	52.3	90.0	70.3	83.3	82.0	92.0	79.0	74.7	86.3	86.3	82.7	
3	SeedTech-F	56.7	43.0	54.3	64.0	51.0	54.3	54.0	49.7	65.0	58.3	56.7	55.2	94.0	71.0	87.0	82.3	92.3	82.0	77.0	84.3	88.0	84.2	
4	PMH3-F	54.3	42.0	59.3	60.0	54.0	55.7	55.7	49.7	62.0	55.7	54.0	54.8	97.0	70.3	87.3	85.7	95.3	81.7	78.3	82.3	84.0	84.7	
CHECKS																								
5	Vivek Hybrid-21	50.0	44.7	48.7	47.7	44.0	48.7	46.3	43.3	52.7	50.3	49.0	47.8	87.0	72.3	79.7	76.7	88.3	75.3	75.3	83.3	84.3	80.3	
6	Vivek Hybrid-43	50.0	39.0	49.3	48.3	47.0	49.7	47.7	44.7	55.0	52.3	49.3	48.4	91.0	69.3	77.7	78.3	91.3	76.7	76.3	85.3	86.0	81.3	
7	Vivek QPM9	48.3	42.3	49.7	49.0	44.0	48.3	46.3	44.3	56.7	50.0	49.0	48.0	83.3	71.3	78.7	76.0	86.0	76.7	75.7	84.3	87.7	80.0	
Loc. Mean		52.5	42.3	52.5	54.1	48.8	51.9	50.1	46.6	59.1	54.1	52.1	51.3	90.2	70.9	82.4	80.3	90.8	78.5	76.1	84.1	85.8	82.1	
C.D. (5%)		1.68	1.68	2.91	1.60	0.39	0.98	1.86	1.34	2.80	1.15	0.90	1.72	1.61	2.57	1.78	1.61	1.37	1.29	4.42	1.03	0.71	2.12	
C.V. (%)		1.80	2.24	3.11	1.66	0.45	1.06	2.09	1.62	2.66	1.20	0.97	3.93	1.00	2.04	1.21	1.13	0.85	0.92	3.27	0.69	0.46	2.73	
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	0.28	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	

TABLE No. 22 (Cont..)

S.No.	PEDIGREE	PLANT HEIGHT(cm)										EAR HEIGHT(cm)										
		AMBI	BANS	DAHO	GODH	JAGD	JHAB	KOTA	RAIP	UDAI	UJJA	Mean	AMBI	BANS	BHIL	DAHO	GODH	JAGD	KOTA	RAIP	UDAI	Mean
1	AH-1212	147.3	158.7	141.7	154.0	138.8	144.3	128.3	173.1	120.0	200.7	150.7	43.8	85.0	61.7	69.3	72.7	41.8	46.7	69.7	48.3	59.9
2	KH-7502	212.5	174.0	167.3	180.7	188.1	176.3	150.0	195.7	178.3	234.7	185.8	66.7	102.3	81.7	79.3	81.7	61.9	53.3	73.5	65.0	73.9
3	SeedTech-F	203.9	206.0	202.0	182.7	189.9	196.3	158.3	200.2	168.3	224.3	193.2	77.5	95.7	100.3	94.7	102.7	69.0	61.7	84.7	73.3	84.4
4	PMH3-F	213.1	233.3	201.3	200.7	188.8	203.3	150.0	222.9	180.0	261.3	205.5	85.8	113.0	96.0	100.7	103.0	79.9	65.0	92.1	90.0	91.7
CHECKS																						
5	Vivek Hybrid-21	183.7	155.7	174.7	169.7	177.0	147.3	158.3	194.1	161.7	216.3	173.8	48.2	71.3	61.7	53.7	74.0	46.5	50.0	54.6	63.3	58.1
6	Vivek Hybrid-43	151.9	167.0	142.0	153.3	148.3	155.3	145.0	166.1	148.3	196.7	157.4	38.0	78.7	54.0	50.0	62.0	34.9	55.0	51.7	61.7	54.0
7	Vivek QPM9	200.1	184.0	182.3	182.7	177.7	168.3	145.0	210.0	160.0	201.3	181.2	67.9	74.0	78.3	75.3	83.0	64.8	68.3	67.9	61.7	71.3
Loc. Mean		187.5	182.7	173.0	174.8	172.7	170.2	147.9	194.6	159.5	219.3	178.2	61.1	88.6	76.2	74.7	82.7	57.0	57.1	70.6	66.2	70.5
C.D. (5%)		11.75	47.60	6.54	20.54	9.38	19.98	6.29	34.34	10.27	2.52	10.14	9.18	24.26	13.99	6.17	22.19	8.16	7.04	19.07	6.63	6.75
C.V. (%)		3.52	14.65	2.12	6.61	3.06	6.60	2.39	9.92	3.62	0.64	6.35	8.44	15.40	10.31	4.64	15.08	8.05	6.93	15.18	5.63	10.11
F (Prob)		0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00

TABLE No. 23: PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, BHUBNESHWAR, DHOLI, RANCHI, VARANASI, ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, AMBIKAPUR, BANSWARA, GODHARA, UDAIPUR IN TRIAL No. QPM12 DURING KHARIF (2014)

SI No	GRAIN YIELD (kg/ha) AT 15% MOISTURE																											
	ZN 1						ZN 2						ZN 3															
PEDIGREE	ALMO	R	BAJA	R	KANG	R	MEAN	R	KARN	R	LUDH	R	PANT	R	MEAN	R	BAHR	R	BHUB	R	DHOL	R	RANC	R	VARA	R	MEAN	R
1 BAU QMH-17	4795	6	3880	16	4092	11	4256	16	7405	8	5298	15	5181	16	5961	15	4533	9	4773	13	4258	13	4189	12	3385	11	4228	15
2 BQPMH 18	3300	15	5764	15	4543	5	4536	14	5882	13	6751	12	7596	11	6743	13	4531	10	5128	9	5414	3	4287	10	1783	16	4229	14
3 BQPMH 36	5331	2	8161	3	5081	2	6191	1	9225	1	7526	3	9312	7	8688	2	5253	4	7207	1	6966	1	4027	13	4364	9	5564	3
4 KDQH-49 (Zone-I)	4024	9	6071	13	5441	1	5179	11	4738	15	4528	16	5258	15	4842	16	4659	8	6067	4	6252	2	4507	8	3243	12	4946	6
5 LQPMH 114	4010	10	7295	7	4468	7	5258	8	9173	2	5968	13	7092	12	7411	10	6569	2	4827	12	5002	5	4298	9	3544	10	4848	8
6 LQPMH 214	3752	13	7832	4	3701	13	5095	12	8843	3	7986	1	8867	10	8565	3	4293	13	5581	7	4272	11	4242	11	4425	8	4563	10
7 LQPMH 314	5705	1	6559	11	4103	10	5456	4	5135	14	6968	9	8909	9	7004	11	4672	7	6159	3	4411	9	3785	15	2280	15	4261	13
8 OQPMH 11-6	3142	16	5972	14	4298	8	4471	15	8016	6	5817	14	5455	14	6429	14	4323	12	4857	11	4981	6	4552	7	3006	14	4344	12
9 VEHQ 11-1	3633	14	8775	1	4985	3	5797	2	8266	5	7392	5	10742	3	8800	1	3653	16	5647	6	4923	7	6616	4	5180	3	5204	4
10 VEHQ 14-1	4887	4	7369	6	3673	14	5310	6	6775	11	7354	6	10853	2	8327	5	7096	1	6673	2	4330	10	7175	2	4863	5	6028	1
11 DMRQPM1401	3950	11	7441	5	3643	15	5011	13	7161	9	6811	11	6351	13	6775	12	3793	15	4690	15	5338	4	3974	14	3224	13	4204	16
12 MMH QPM-6-12-13	5167	3	7197	8	3616	16	5326	5	4702	16	7263	8	12345	1	8103	7	3859	14	5669	5	4662	8	6673	3	4869	4	5146	5
CHECKS																												
13 HQPM1	4825	5	6884	10	4027	12	5245	9	6915	10	7735	2	9567	4	8072	8	4488	11	3771	16	3999	15	6581	5	5191	2	4806	9
14 HQPM4	4746	7	6350	12	4531	6	5209	10	6747	12	6829	10	9348	6	7641	9	4835	6	5378	8	4264	12	7901	1	5801	1	5636	2
15 HQPM5-C	3908	12	8377	2	4963	4	5749	3	8705	4	7279	7	9525	5	8503	4	5357	3	4704	14	4226	14	5713	6	4638	6	4928	7
16 Vivek QPM-9-C	4601	8	7030	9	4197	9	5276	7	7788	7	7423	4	9100	8	8104	6	4986	5	5043	10	3849	16	3601	16	4477	7	4391	11
Location Mean	4361		6935		4335		5210		7217		6808		8469		7498		4806		5386		4822		5133		4017		4833	
C.D. (5%)	559		620		1139		773		372		1187		1272		943		514		399		674		666		769		604	
C.V. (%)	7.68		5.36		12.25		-		3.09		10.44		8.99		-		6.41		4.43		8.37		7.77		11.47		-	
F (Prob)	0		0		0.051		-		0		0		0		-		0		0		0		0		0		-	
Plot Size	7.2		7.2		4.8		-		12		9.6		12		-		9.6		9.6		12		11.2		9.6		-	
AGRONOMY DATA																												
Sowing Date	7-07		5-07		19-06		-		27-06		6-07		25-06		-		3-07		24-07		14-07		5-07		1-07		-	
Harvest Date	3-11		3-11		29-10		-		3-10		8-10		30-10		-		3-10		10-11		27-10		1-11		7-10		-	
Irrigation Nos	-		3		-		-		6		10		1		-		-		-		2		-		2		-	
Fertilizer Applied N	100		120		120		-		150		50		120		-		120		120		120		120		120		-	
Fertilizer Applied P	60		60		60		-		60		24		60		-		60		60		60		60		60		-	
Fertilizer Applied K	40		40		40		-		60		12		40		-		40		60		40		40		40		-	

TABLE No. 23: (cont...)

SI No PEDIGREE	ZN 4												ZN 5			OVL										
	ARBH	R	COIM	R	HYDE	R	KARI	R	KOLH	R	MAND	R	MEAN	R	AMBI	R	BANS	R	GODH	R	UDAI	R	MEAN	R	MEAN	R
1 BAU QMH-17	6304	9	7049	11	6080	7	5242	15	3322	16	6300	16	5716	11	2832	16	3467	7	2176	16	3977	10	3113	15	4692	15
2 BQPMH 18	5037	13	6858	12	5436	12	6222	11	4222	13	6979	10	5792	10	4584	9	2958	14	3776	11	4301	8	3905	11	5017	12
3 BQPMH 36	8246	1	10068	2	5659	9	9111	3	4874	8	8694	3	7775	4	6223	1	3936	1	5247	3	4652	2	5014	1	6627	1
4 KDQH-49 (Zone-I)	4309	15	6057	16	3838	14	5434	14	4313	10	6680	11	5105	16	3611	15	2853	15	3071	14	2915	16	3112	16	4660	16
5 LQPMH 114	6396	8	6242	15	5773	8	5958	12	3594	14	6316	15	5713	12	4807	7	3361	9	4263	8	3717	12	4037	9	5365	10
6 LQPMH 214	7826	4	8287	9	7142	3	8132	5	5822	2	10038	1	7874	2	6140	2	3257	11	4997	5	4523	5	4729	3	6188	5
7 LQPMH 314	4066	16	6781	13	4613	13	7158	9	4282	11	7146	9	5674	13	4527	10	3820	3	4209	9	4682	1	4309	5	5237	11
8 OQPMH 11-6	5174	12	7807	10	3255	16	5090	16	4814	9	6430	14	5428	14	3943	13	3887	2	3038	15	3946	11	3703	13	4848	14
9 VEHQ 11-1	7417	6	9155	5	6453	4	5860	13	4231	12	9000	2	7019	7	4638	8	3702	5	4830	6	3418	13	4147	7	6120	6
10 VEHQ 14-1	7981	3	9707	4	6387	5	9364	2	6019	1	8361	4	7970	1	5583	4	3573	6	5345	1	4543	4	4761	2	6567	2
11 DMRQPM1401	4346	14	6606	14	3640	15	6446	10	3503	15	7705	7	5374	15	3779	14	3374	8	3972	10	4620	3	3936	10	4970	13
12 MMH QPM-6-12-13 CHECKS	7632	5	8486	7	7792	2	8570	4	4893	7	6672	12	7341	6	4527	11	3188	12	3595	13	3187	15	3624	14	5932	7
13 HQPM1	6114	10	9731	3	5487	11	8008	6	5141	6	6670	13	6858	8	5416	5	2290	16	5102	4	4391	7	4300	6	5825	8
14 HQPM4	8071	2	8611	6	7800	1	7410	7	5627	4	8348	5	7644	5	5611	3	3740	4	5261	2	4045	9	4664	4	6250	3
15 HQPM5-C	7296	7	10655	1	6305	6	9367	1	5220	5	7854	6	7783	3	4388	12	3080	13	4422	7	4421	6	4078	8	6210	4
16 Vivek QPM-9-C	6099	11	8435	8	5620	10	7249	8	5810	3	7246	8	6743	9	5000	6	3261	10	3665	12	3192	14	3780	12	5603	9
Location Mean	6395		8158		5705		7164		4730		7527		6613		4725		3359		4185		4033		4076		5632	
C.D. (5%)	1609		768		1195		1489		1040		627		1121		1014		1682		290		632		904		882	
C.V. (%)	15.07		5.64		12.55		12.45		13.17		4.98		-		12.84		29.98		4.15		9.39		-		-	
F (Prob)	0		0		0		0		0		0		-		0		0.85		0		0		-		-	
Plot Size	9.6		9.6		12		12		12		11.2		-		12		9.6		9.6		14.4		-		-	
AGRONOMY DATA																										
Sowing Date	30-07		19-07		10-07		15-07		18-07		26-07		-		1-07		13-07		16-07		7-04		-		-	
Harvest Date	15-11		28-10		25-10		31-10		25-11		13-12		-		-		18-10		4-11		13-10		-		-	
Irrigation Nos	8		9		4		-		-		7		-		-		-		-		1		-		-	
Fertilizer Applied N	150		150		200		200		120		150		-		120		150		100		90		-		-	
Fertilizer Applied P	75		75		60		60		60		75		-		60		80		50		60		-		-	
Fertilizer Applied K	37.5		75		50		50		40		40		-		40		-		-		-		-		-	

TABLE No. 23 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM1																											
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5			OV'L				
		ALMO	BAJA	KANG	MEAN	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	MEAN	AMBI	BANS	GODH	UDAI	MEAN	MEAN	
1	BAU QMH-17	-	-	1.6	-	7.1	-	-	-	1	26.6	6.5	-	-	-	3.1	-	10.8	-	-	-	-	-	51.4	-	-	-	-	
2	BQPMH 18	-	-	12.8	-	-	-	-	-	1	36	35.4	-	-	-	-	-	-	-	-	4.6	-	-	29.2	-	-	-	-	
3	BQPMH 36	10.5	18.5	26.2	18	33.4	-	-	7.6	17.1	91.1	74.2	-	-	15.8	34.9	3.5	3.1	13.8	-	30.3	13.4	14.9	71.9	2.8	6	16.6	13.8	
4	KDQH-49 (Zone-I)	-	-	35.1	-	-	-	-	-	3.8	60.9	56.3	-	-	2.9	-	-	-	-	-	0.1	-	-	24.6	-	-	-	-	
5	LQPMH 114	-	6	11	0.2	32.7	-	-	-	46.4	28	25.1	-	-	0.9	4.6	-	5.2	-	-	-	-	-	46.8	-	-	-	-	
6	LQPMH 214	-	13.8	-	-	27.9	3.3	-	6.1	-	48	6.8	-	-	-	28	-	30.2	1.5	13.2	50.5	14.8	13.4	42.3	-	3	10	6.2	
7	LQPMH 314	18.2	-	1.9	4	-	-	-	-	4.1	63.3	10.3	-	-	-	-	-	-	-	-	7.1	-	-	66.8	-	6.6	0.2	-	
8	OQPMH 11-6	-	-	6.7	-	15.9	-	-	-	-	28.8	24.5	-	-	-	-	-	-	-	-	-	-	-	69.7	-	-	-	-	
9	VEHQ 11-1	-	27.5	23.8	10.5	19.5	-	12.3	9	-	49.7	23.1	0.5	-	8.3	21.3	-	17.6	-	-	34.9	2.3	-	61.7	-	-	-	5.1	
10	VEHQ 14-1	1.3	7	-	1.2	-	-	13.4	3.2	58.1	77	8.3	9	-	25.4	30.6	-	16.4	16.9	17.1	25.4	16.2	3.1	56.1	4.8	3.5	10.7	12.7	
11	DMRQPM1401	-	8.1	-	-	3.6	-	-	-	-	24.4	33.5	-	-	-	-	-	-	-	-	15.5	-	-	47.4	-	5.2	-	-	
12	MMH QPM-6-12-13	7.1	4.5	-	1.5	-	-	29	0.4	-	50.3	16.6	1.4	-	7.1	24.8	-	42	7	-	0	7	-	39.2	-	-	-	1.8	
	CHECKS																												
13	HQPM1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	HQPM4	-	-	12.5	-	-	-	-	-	7.7	42.6	6.6	20.1	11.7	17.3	32	-	42.1	-	9.4	25.2	11.5	3.6	63.4	3.1	-	8.5	7.3	
15	HQPM5-C	-	21.7	23.3	9.6	25.9	-	-	5.3	19.4	24.7	5.7	-	-	2.5	19.3	9.5	14.9	17	1.5	17.8	13.5	-	34.5	-	0.7	-	6.6	
16	Vivek QPM-9-C	-	2.1	4.2	0.6	12.6	-	-	0.4	11.1	33.7	-	-	-	-	-	-	2.4	-	13	8.6	-	-	42.4	-	-	-	-	
SI No	PEDIGREE	COB YIELD % SUPERIORITY OVER THE HQPM4																											
		ZN 1					ZN 2					ZN 3					ZN 4					ZN 5			OV'L				
		ALMO	BAJA	KANG	MEAN	KARN	LUDH	PANT	MEAN	BAHR	BHUB	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	MEAN	AMBI	BANS	GODH	UDAI	MEAN	MEAN	
1	BAU QMH-17	1	-	-	-	9.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	BQPMH 18	-	-	0.3	-	-	-	-	-	-	-	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3	-	
3	BQPMH 36	12.3	28.5	12.1	18.9	36.7	10.2	-	13.7	8.7	34	63.4	-	-	-	2.2	16.9	-	23	-	4.1	1.7	10.9	5.2	-	15	7.5	6	
4	KDQH-49 (Zone-I)	-	-	20.1	-	-	-	-	-	-	12.8	46.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	LQPMH 114	-	14.9	-	0.9	36	-	-	-	35.9	-	17.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	LQPMH 214	-	23.3	-	-	31.1	16.9	-	12.1	-	3.8	0.2	-	-	-	-	-	-	9.7	3.5	20.3	3	9.4	-	-	11.8	1.4		
7	LQPMH 314	20.2	3.3	-	4.7	-	2	-	-	-	14.5	3.5	-	-	-	-	-	-	-	-	-	-	-	2.1	-	15.7	-		
8	OQPMH 11-6	-	-	-	-	18.8	-	-	-	-	-	16.8	-	-	-	-	-	-	-	-	-	-	-	3.9	-	-	-		
9	VEHQ 11-1	-	38.2	10	11.3	22.5	8.2	14.9	15.2	-	5	15.5	-	-	-	-	6.3	-	-	-	7.8	-	-	-	-	-	-		
10	VEHQ 14-1	3	16.1	-	1.9	0.4	7.7	16.1	9	46.8	24.1	1.6	-	-	7	-	12.7	-	26.4	7	0.2	4.3	-	-	1.6	12.3	2.1	5.1	
11	DMRQPM1401	-	17.2	-	-	6.1	-	-	-	-	-	25.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.2	-	
12	MMH QPM-6-12-13	8.9	13.3	-	2.3	-	6.4	32.1	6	-	5.4	9.3	-	-	-	-	-	-	15.7	-	-	-	-	-	-	-	-		
	CHECKS																												
13	HQPM1	1.7	8.4	-	0.7	2.5	13.3	2.3	5.6	-	-	-	-	-	-	-	13	-	8.1	-	-	-	-	-	-	8.5	-		
14	HQPM4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15	HQPM5-C	-	31.9	9.5	10.4	29	6.6	1.9	11.3	10.8	-	-	-	-	-	-	23.7	-	26.4	-	-	1.8	-	-	-	9.3	-		
16	Vivek QPM-9-C	-	10.7	-	1.3	15.4	8.7	-	6.1	3.1	-	-	-	-	-	-	-	-	-	-	3.2	-	-	-	-	-	-	-	

Table No. 23 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %																										
		ALMO	BAJA	KANG	ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		OV'L					
					Mean	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	AMBI	BANS	GODH	UDAI	Mean	Mean
1	BAU QMH-17	82.3	78.7	80.5	80.5	65.3	81.0	82.3	76.2	75.0	80.1	79.5	87.0	74.4	79.2	85.4	77.8	79.4	76.5	81.0	81.3	80.2	78.4	70.2	78.2	83.1	77.4	78.9
2	BQPMH 18	81.3	83.6	74.6	79.8	66.2	81.5	83.3	77.0	77.6	78.7	79.5	84.4	76.4	79.3	83.8	81.3	75.5	82.1	78.9	84.2	81.0	78.5	69.4	82.0	82.8	78.1	79.3
3	BQPMH 36	82.4	83.1	77.7	81.1	69.2	81.5	75.3	75.3	79.6	79.5	84.5	84.0	72.3	80.0	82.7	78.1	67.4	79.4	76.1	79.4	77.2	80.6	71.4	86.1	83.0	80.3	78.7
4	KDQH-49 (Zone-I)	84.5	82.8	80.7	82.7	65.9	81.5	80.0	75.8	78.2	80.3	79.5	86.8	71.6	79.3	82.8	77.5	67.2	79.8	84.0	82.3	78.9	78.7	71.0	85.9	82.4	79.5	79.2
5	LQPMH 114	82.2	83.7	76.2	80.7	67.0	82.0	81.3	76.7	77.1	80.9	80.0	85.5	78.0	80.3	84.5	79.6	66.7	83.6	82.1	83.8	80.0	80.8	69.5	88.2	82.8	80.3	79.8
6	LQPMH 214	80.6	80.9	78.1	79.9	65.2	81.0	80.7	75.6	76.4	78.3	80.5	84.4	75.3	79.0	84.5	81.2	77.4	78.6	81.7	79.1	80.4	79.6	70.3	85.7	82.7	79.6	79.1
7	LQPMH 314	80.3	76.4	79.4	78.7	67.4	81.0	78.9	75.7	78.6	80.7	80.5	81.3	65.6	77.3	76.4	81.0	76.1	76.5	80.9	80.9	78.6	78.7	70.7	84.8	83.1	79.3	78.0
8	OQPMH 11-6	78.4	84.0	76.3	79.6	69.0	81.5	80.6	77.0	77.8	79.1	80.0	84.4	77.8	79.8	84.4	81.8	67.8	83.5	86.0	83.0	81.1	78.5	69.6	82.4	82.5	78.2	79.4
9	VEHQ 11-1	80.5	80.5	79.2	80.1	67.6	82.5	81.2	77.1	72.8	78.5	79.5	82.9	71.5	77.0	84.0	78.3	76.6	58.5	76.7	80.4	75.7	78.7	71.0	83.8	82.9	79.1	77.5
10	VEHQ 14-1	80.2	82.5	73.5	78.7	68.8	81.0	83.1	77.6	80.9	78.8	80.5	85.9	73.2	79.8	84.6	78.4	68.7	78.4	80.9	79.7	78.5	77.6	71.2	83.7	82.6	78.7	78.8
11	DMRQPM1401	81.4	83.8	76.2	80.5	66.5	81.5	76.9	75.0	70.0	79.3	78.5	87.2	74.9	78.0	82.7	80.6	68.3	80.3	78.2	82.3	78.7	78.2	69.6	85.4	83.0	79.0	78.3
12	MMH QPM-6-12-13	80.0	74.2	79.5	77.9	67.3	81.0	83.3	77.2	76.4	78.4	78.0	82.6	71.6	77.4	81.8	79.0	76.6	76.4	76.2	79.2	78.2	77.9	69.7	82.3	83.1	78.2	77.8
	CHECKS																											
13	HQPM1	81.4	78.9	77.0	79.1	65.3	83.0	80.9	76.4	75.8	80.6	80.0	85.7	74.4	79.3	85.0	78.0	79.6	78.8	71.1	80.9	78.9	78.3	69.0	84.5	82.8	78.6	78.6
14	HQPM4	79.6	75.0	76.1	76.9	66.0	81.0	76.4	74.5	71.8	80.1	77.0	81.6	65.5	75.2	80.4	78.1	72.4	76.5	76.9	80.7	77.5	75.9	69.2	80.7	83.0	77.2	76.4
15	HQPM5-C	79.5	82.8	76.0	79.4	67.7	81.5	79.8	76.3	76.9	80.7	76.0	86.9	72.6	78.6	83.4	79.3	74.1	77.4	78.2	81.6	79.0	75.5	69.5	80.8	82.0	76.9	78.2
16	Vivek QPM-9-C	84.8	84.3	78.4	82.5	67.3	82.0	82.5	77.3	74.5	81.1	77.5	84.6	74.6	78.5	86.9	83.0	76.1	80.1	84.9	80.2	81.9	80.0	69.2	83.7	82.3	78.8	79.9
	Loc. Mean	81.2	80.9	77.5	79.9	67.0	81.5	80.4	76.3	76.2	79.7	79.4	84.7	73.1	78.6	83.3	79.5	73.1	77.9	79.6	81.2	79.1	78.5	70.0	83.6	82.7	78.7	78.6
	C.D. (5%)	1.77	-	2.57	4.05	0.24	1.33	1.89	2.79	1.70	0.00	1.46	1.92	1.79	2.83	1.12	1.10	7.58	14.27	0.46	1.28	4.13	1.42	2.43	2.90	0.55	1.86	1.53
	C.V. (%)	1.30	-	1.56	3.04	0.21	0.98	1.41	2.19	1.34	0.00	1.10	1.36	1.47	2.85	0.81	0.83	6.22	10.99	0.35	0.95	4.54	1.08	2.08	2.08	0.40	1.65	3.21
	F (Prob)	0.00	-	0.00	0.36	0.00	0.12	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.25	0.00	0.00	0.31	0.00	0.57	0.00	0.01	0.02	0.00

Table No. 23 (Continued)

MOISTURE % AT HARVEST																											
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5	OV'L				
		ALMO	BAJA	KANG	Mean	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	BANS	GODH	UDAI	Mean	Mean
1	BAU QMH-17	27.1	25.0	26.4	26.2	24.4	27.0	16.4	22.6	24.9	18.5	20.9	25.7	29.3	23.9	29.8	19.2	24.2	13.8	15.5	13.6	20.4	17.2	14.8	22.9	18.3	22.2
2	BQPMH 18	22.5	24.2	25.5	24.1	22.1	20.5	15.5	19.4	23.2	18.2	18.9	23.7	23.2	21.4	27.8	18.4	16.8	6.3	13.3	12.7	17.8	16.5	15.2	22.7	18.1	20.0
3	BQPMH 36	29.3	25.7	26.1	27.0	24.6	26.4	16.0	22.3	24.6	17.5	18.7	28.0	29.2	23.6	27.4	21.0	17.8	10.6	15.5	14.1	19.2	17.2	14.8	23.2	18.4	21.9
4	KDQH-49 (Zone-I)	25.4	26.3	26.3	26.0	20.0	24.5	16.2	20.2	22.8	17.8	11.0	21.9	30.7	20.8	22.3	15.2	16.6	6.2	12.9	14.2	16.2	16.6	14.2	23.1	17.9	19.9
5	LQPMH 114	25.4	25.5	27.4	26.1	22.7	26.1	16.5	21.7	23.1	19.3	20.6	24.5	26.4	22.8	26.6	14.3	15.5	6.4	14.4	13.2	16.8	17.1	16.7	22.6	18.8	20.9
6	LQPMH 214	25.6	25.3	26.9	25.9	19.1	24.9	16.0	20.0	23.1	17.7	20.0	24.5	24.8	22.0	32.0	16.7	19.1	10.2	15.7	14.3	19.5	16.6	15.0	22.5	18.0	21.0
7	LQPMH 314	28.3	21.7	26.9	25.6	21.5	25.7	15.7	20.9	23.8	17.7	20.9	24.1	23.1	21.9	24.7	18.0	17.3	6.6	13.4	12.4	17.1	17.3	14.6	23.1	18.3	20.5
8	OQPMH 11-6	24.1	25.6	24.4	24.7	21.0	25.9	17.1	21.3	23.1	18.3	21.9	24.7	27.3	23.0	24.1	19.5	17.6	8.8	14.9	12.5	17.7	17.2	14.0	22.3	17.8	20.8
9	VEHQ 11-1	30.3	26.9	23.8	27.0	22.7	28.7	17.3	22.9	25.1	18.1	19.1	28.8	33.8	25.0	30.1	21.8	23.5	15.0	15.8	15.2	21.2	17.1	15.5	22.7	18.4	22.9
10	VEHQ 14-1	29.2	25.3	25.6	26.7	20.7	29.0	18.5	22.7	23.0	18.7	22.4	28.9	32.2	25.0	32.1	22.1	26.6	12.5	15.3	15.6	22.3	17.0	16.4	22.9	18.7	23.2
11	DMRQPM1401	25.1	26.3	26.4	25.9	20.4	26.6	15.8	20.9	25.1	16.8	20.9	23.4	26.2	22.5	30.7	18.1	20.0	12.0	14.5	13.8	19.4	16.6	16.9	23.4	19.0	21.4
12	MMH QPM-6-12-13	29.6	26.3	26.8	27.6	21.4	21.4	17.6	20.1	24.1	16.5	21.8	25.6	31.3	23.8	31.8	20.7	23.9	9.7	15.2	13.2	20.9	16.9	16.4	23.4	18.9	22.3
CHECKS																											
13	HQPM1	25.5	26.2	27.2	26.3	19.6	28.0	19.6	22.4	24.9	17.0	21.6	26.9	33.3	24.7	30.2	22.2	22.6	13.8	16.9	14.7	21.3	16.9	15.0	23.1	18.3	22.7
14	HQPM4	29.3	25.4	25.6	26.8	22.0	29.2	17.2	22.8	26.1	17.4	22.6	30.0	30.8	25.4	29.3	23.1	19.0	12.2	16.9	15.4	20.7	17.1	16.0	22.9	18.6	22.9
15	HQPM5-C	30.1	26.2	26.4	27.6	23.3	29.0	21.0	24.4	23.8	18.0	20.5	30.4	33.0	25.1	29.1	22.5	22.8	12.3	17.5	14.2	21.2	17.0	16.2	22.7	18.6	23.3
16	Vivek QPM-9-C	22.8	24.3	25.0	24.0	18.6	23.6	15.7	19.3	23.1	18.6	20.1	24.0	23.5	21.8	24.2	18.1	19.4	9.9	14.7	14.6	18.2	16.8	13.5	23.0	17.7	20.2
Loc. Mean		26.9	25.4	26.0	26.1	21.5	26.0	17.0	21.5	24.0	17.9	20.1	25.9	28.6	23.3	28.2	19.4	20.2	10.4	15.1	13.9	19.4	16.9	15.3	22.9	18.4	21.6
C.D. (5%)		1.52	0.20	1.18	2.87	0.24	3.09	1.13	2.85	0.84	-	4.76	0.33	1.81	2.74	2.39	0.74	2.96	3.76	1.33	0.39	2.25	0.61	1.17	0.53	1.05	1.12
C.V. (%)		3.39	0.47	2.12	6.60	0.66	7.11	3.99	7.95	2.11	-	14.21	0.75	3.80	9.28	5.09	2.30	8.80	21.70	5.26	1.68	9.17	2.17	4.59	1.38	3.42	8.13
F (Prob)		0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.03	0.00	-	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.01	0.41	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : KARIMNAGAR 21.7%

Table No. 23 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)																										
		ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		OV'L								
		ALMO	BAJA	KANG	Mean	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	AMBI	BANS	GODH	UDAI	Mean	Mean
1	BAU QMH-17	55.6	41.7	66.7	54.6	63.3	29.2	51.7	48.1	68.4	62.5	66.7	56.3	58.7	62.5	50.7	66.0	60.3	39.7	50.6	58.3	54.3	50.6	55.2	36.5	42.6	46.2	53.9
2	BQPMH 18	61.1	68.5	66.7	65.4	62.8	71.5	56.7	63.7	67.4	64.9	66.4	58.9	58.3	63.2	71.5	66.7	61.7	55.3	53.3	59.5	61.3	56.1	58.3	69.8	43.8	57.0	61.9
3	BQPMH 36	62.0	72.7	68.8	67.8	63.9	66.3	56.7	62.3	66.0	63.5	66.9	56.3	60.4	62.6	75.7	66.0	68.6	58.6	53.3	67.3	64.9	64.2	55.9	56.9	43.8	55.2	62.6
4	KDQH-49 (Zone-I)	57.4	64.8	72.9	65.0	61.1	58.7	54.4	58.1	66.7	60.8	64.4	58.0	57.3	61.4	71.9	65.6	58.3	54.2	53.3	58.3	60.3	53.3	57.3	64.2	43.3	54.5	59.8
5	LQPMH 114	59.7	63.9	67.7	63.8	63.6	69.4	56.7	63.2	67.4	63.5	66.1	56.0	59.4	62.5	76.0	66.3	64.7	57.5	53.3	63.4	63.6	59.4	55.9	75.7	43.3	58.6	62.3
6	LQPMH 214	61.6	70.4	68.8	66.9	64.2	72.6	56.7	64.5	63.5	64.2	66.7	59.2	63.2	63.4	72.9	66.3	64.4	59.2	53.3	60.7	62.8	65.8	60.8	72.6	42.4	60.4	63.3
7	LQPMH 314	57.4	69.9	70.8	66.0	63.3	63.9	56.4	61.2	64.6	61.5	66.7	55.7	58.0	61.3	67.0	65.6	62.2	54.2	50.8	60.4	60.0	56.9	56.3	71.9	43.1	57.0	60.8
8	OQPMH 11-6	57.9	54.6	64.6	59.0	63.1	60.1	51.7	58.3	62.5	61.5	66.4	56.5	58.7	61.1	68.1	66.0	53.1	43.9	53.3	59.8	57.4	52.5	51.4	53.8	42.8	50.1	57.2
9	VEHQ 11-1	59.7	67.6	67.7	65.0	63.9	58.7	51.4	58.0	63.2	63.2	65.8	56.3	56.3	60.9	70.8	66.0	58.9	52.2	50.6	62.5	60.2	52.2	62.8	68.4	43.1	56.6	60.1
10	VEHQ 14-1	57.9	61.1	70.8	63.3	62.8	75.7	53.6	64.0	66.7	63.9	67.2	58.6	57.6	62.8	72.9	66.0	61.7	68.6	53.3	64.0	64.4	53.9	56.6	74.3	42.6	56.8	62.4
11	DMRQPM1401	56.5	68.5	70.8	65.3	62.2	64.2	53.6	60.0	65.3	62.8	66.1	51.5	59.0	61.0	64.9	66.0	50.3	57.5	51.7	66.4	59.5	51.7	52.1	68.8	42.1	53.7	59.6
12	MMH QPM-6-12-13	55.6	62.5	70.8	63.0	61.4	60.8	56.7	59.6	62.5	64.2	66.7	60.1	63.5	63.4	75.7	66.3	61.4	61.4	52.2	59.2	62.7	55.8	54.9	82.3	43.1	59.0	61.8
	CHECKS																											
13	HQPM1	60.2	57.9	66.7	61.6	63.3	60.1	54.4	59.3	63.5	65.6	65.8	56.0	64.2	63.0	67.7	66.0	54.2	61.7	52.2	67.0	61.5	58.1	54.2	73.3	42.8	57.1	60.7
14	HQPM4	56.0	63.0	69.8	62.9	63.1	62.2	54.4	59.9	67.4	64.6	66.1	57.4	62.2	63.5	66.3	66.3	62.8	65.3	51.1	59.5	61.9	60.8	56.3	68.4	43.1	57.1	61.2
15	HQPM5-C	59.3	61.1	67.7	62.7	64.7	69.8	54.7	63.1	64.9	63.5	63.1	50.9	58.0	60.1	63.5	66.3	61.1	57.5	51.1	61.6	60.2	59.7	52.4	67.4	43.8	55.8	60.1
16	Vivek QPM-9-C	59.7	63.9	66.7	63.4	63.3	76.0	55.8	65.1	64.6	62.8	63.9	56.0	57.6	61.0	76.4	66.7	57.2	57.5	53.3	57.4	61.4	57.2	53.8	62.5	43.3	54.2	60.8
	Loc. Mean	58.6	63.3	68.6	63.5	63.1	63.7	54.7	60.5	65.3	63.3	65.9	56.5	59.5	62.1	69.5	66.1	60.1	56.5	52.3	61.6	61.0	56.8	55.9	66.7	43.0	55.6	60.5
	C.D. (5%)	4.71	5.63	8.58	6.98	1.58	7.58	3.09	10.13	4.43	3.59	2.71	5.17	4.95	2.25	10.03	0.96	6.99	2.36	2.77	4.15	4.72	6.03	10.57	4.38	1.01	8.01	2.60
	C.V. (%)	4.82	5.34	5.87	6.59	1.50	7.14	3.38	10.04	4.07	3.40	2.47	5.49	4.99	2.87	8.65	0.87	6.98	2.51	3.17	4.04	6.73	6.37	11.34	3.94	1.41	10.11	7.07
	F (Prob)	0.11	0.00	0.83	0.10	0.01	0.00	0.00	0.23	0.16	0.37	0.16	0.06	0.05	0.03	0.00	0.61	0.00	0.00	0.19	0.00	0.01	0.00	0.78	0.00	0.07	0.14	0.00

Table No. 23 (Continued)

DAYS TO 50% POLLEN SHED																												
S.No.	PEDIGREE	ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		OV'L								
		ALMO	BAJA	KANG	Mean	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI		KOLH	MAND	Mean	AMBI	BANS	GODH	UDAI	Mean
1	BAU QMH-17	66.7	61.7	49.0	59.1	53.0	49.0	56.7	52.9	51.3	52.3	49.7	51.7	55.0	52.0	60.3	51.0	61.0	51.0	64.0	52.0	56.6	49.0	44.7	55.3	58.0	51.8	54.4
2	BQPMH 18	61.7	53.0	49.0	54.6	51.3	43.0	46.7	47.0	46.7	51.3	47.3	52.0	45.3	48.5	56.0	45.0	53.3	47.7	59.0	48.0	51.5	46.0	43.3	49.0	48.3	46.7	49.7
3	BQPMH 36	65.3	59.7	47.0	57.3	52.0	48.7	55.3	52.0	50.7	53.7	52.0	52.3	50.0	51.7	58.0	48.3	55.3	49.3	59.7	50.7	53.6	50.3	42.7	52.0	54.0	49.8	52.7
4	KDQH-49 (Zone-I)	57.0	50.7	52.5	53.4	52.3	43.3	46.7	47.4	45.3	52.0	46.0	51.0	44.0	47.7	52.7	43.0	50.3	45.3	53.0	47.7	48.7	45.3	42.3	47.0	47.0	45.4	48.3
5	LQPMH 114	60.0	53.3	49.0	54.1	53.7	45.0	49.0	49.2	49.7	52.3	46.7	51.7	47.7	49.6	54.3	46.0	53.7	47.7	57.0	50.7	51.6	47.7	42.3	49.3	47.7	46.8	50.2
6	LQPMH 214	61.3	59.3	45.0	55.2	52.0	46.0	54.7	50.9	48.7	50.3	48.3	52.7	49.3	49.9	57.0	47.7	55.7	48.7	61.0	50.7	53.4	51.0	43.3	50.0	46.7	47.8	51.4
7	LQPMH 314	56.7	52.7	46.5	51.9	50.0	44.7	48.0	47.6	47.3	52.0	47.7	57.0	46.7	50.1	53.3	44.3	52.7	46.7	52.0	48.3	49.6	47.3	42.3	48.0	46.7	46.1	49.1
8	OQPMH 11-6	59.0	60.0	49.0	56.0	52.7	44.3	49.0	48.7	48.7	50.3	47.0	52.3	47.7	49.2	53.7	42.7	53.3	46.7	52.0	46.7	49.2	46.7	45.7	48.0	48.0	47.1	49.7
9	VEHQ 11-1	66.3	61.7	50.0	59.3	52.3	51.3	59.3	54.3	55.3	50.0	49.0	51.3	54.0	51.9	59.7	52.3	60.7	52.7	68.0	54.7	58.0	53.0	45.7	55.7	58.3	53.2	55.3
10	VEHQ 14-1	66.3	58.0	47.0	57.1	57.7	49.0	54.7	53.8	52.7	50.3	52.0	53.0	54.0	52.4	60.3	50.0	59.7	51.7	65.0	52.0	56.4	53.3	44.3	56.0	48.0	50.4	54.0
11	DMRQPM1401	59.7	61.0	47.0	55.9	54.0	47.0	55.0	52.0	49.3	47.7	50.0	51.7	48.0	49.3	56.3	47.0	55.7	48.7	60.0	50.3	53.0	50.0	43.0	51.0	49.3	48.3	51.5
12	MMH QPM-6-12-13	64.7	61.3	46.0	57.3	56.7	51.0	57.3	55.0	53.3	47.3	51.3	54.3	52.7	51.8	59.0	53.3	59.0	52.0	65.0	52.7	56.8	46.0	43.0	52.0	55.7	49.2	54.0
CHECKS																												
13	HQPM1	65.7	57.7	56.0	59.8	60.3	48.7	53.3	54.1	50.3	46.7	51.3	52.0	55.3	51.1	60.3	50.0	59.7	52.0	67.3	54.0	57.2	45.0	46.7	53.0	50.7	48.8	54.1
14	HQPM4	66.3	60.3	51.5	59.4	54.7	50.0	56.0	53.6	55.3	52.7	52.3	51.3	54.0	53.1	59.3	53.0	59.3	52.0	61.0	54.3	56.5	50.0	44.3	56.0	50.0	50.1	54.5
15	HQPM5-C	60.3	60.3	51.0	57.2	55.0	51.3	59.0	55.1	53.3	51.7	51.7	52.7	55.7	53.0	59.7	52.7	59.7	52.7	68.3	55.3	58.1	48.3	45.7	55.0	57.7	51.7	55.1
16	Vivek QPM-9-C	55.3	53.0	49.0	52.4	50.7	39.7	48.0	46.1	47.3	45.0	46.7	52.3	46.0	47.5	51.3	42.0	51.7	46.0	51.0	50.7	48.8	44.3	45.0	45.0	44.7	44.8	47.8
Loc. Mean		62.0	57.7	49.0	56.3	53.6	47.0	53.0	51.2	50.3	50.4	49.3	52.5	50.3	50.6	57.0	48.0	56.3	49.4	60.2	51.2	53.7	48.3	44.0	51.4	50.7	48.6	52.0
C.D. (5%)		1.10	2.32	3.81	5.12	1.23	1.57	2.25	3.67	2.26	1.09	1.95	1.00	1.64	2.94	1.71	0.86	1.25	1.03	2.46	3.16	1.88	1.45	2.81	1.11	1.37	3.60	1.39
C.V. (%)		1.07	2.41	3.65	5.46	1.38	2.00	2.55	4.29	2.69	1.29	2.37	1.14	1.95	4.60	1.80	1.08	1.33	1.26	2.45	3.70	3.05	1.80	3.83	1.30	1.63	5.20	4.39
F (Prob)		0.00	0.00	0.00	0.05	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	0.04	0.00	0.00	0.00	0.00

Table No. 23 (Continued)

DAYS TO 50% SILKING																														
S.No.	PEDIGREE	ZN 1							ZN 2							ZN 3							ZN 4					ZN 5		OV'L
		ALMO	BAJA	KANG	Mean	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	AMBI	BANS	GODH	UDAI	Mean	Mean		
1	BAU QMH-17	69.0	64.3	52.0	61.8	55.0	49.0	59.7	54.6	53.3	55.7	51.3	55.3	58.7	54.9	61.7	53.3	62.7	52.7	65.0	53.7	58.2	52.0	48.0	57.7	60.0	54.4	56.7		
2	BQPMH 18	63.0	55.7	52.0	56.9	53.3	45.3	49.7	49.4	48.7	54.3	48.7	56.0	50.0	51.5	56.0	48.0	54.0	48.0	60.3	49.3	52.6	49.3	46.7	50.0	50.0	49.0	51.8		
3	BQPMH 36	67.0	62.0	50.5	59.8	54.0	50.0	58.0	54.0	52.7	57.3	53.3	56.0	55.3	54.9	60.3	50.3	59.3	51.3	60.7	53.0	55.8	53.0	45.7	54.0	56.3	52.3	55.2		
4	KDQH-49 (Zone-I)	58.3	52.7	56.0	55.7	54.3	45.7	50.0	50.0	47.3	54.7	48.0	56.0	47.7	50.7	54.3	45.7	51.3	47.3	54.0	48.7	50.2	49.0	46.3	48.0	48.7	48.0	50.7		
5	LQPMH 114	61.0	56.0	52.0	56.3	56.7	47.3	52.0	52.0	51.7	56.0	48.7	56.0	51.7	52.8	55.0	48.7	55.3	49.0	58.0	52.3	53.1	51.7	45.7	51.0	49.3	49.4	52.6		
6	LQPMH 214	63.0	62.0	49.5	58.2	54.0	47.0	57.3	52.8	50.7	52.7	49.7	57.3	53.7	52.8	58.7	50.3	57.3	50.0	62.0	52.7	55.2	54.3	46.3	52.0	48.3	50.3	53.8		
7	LQPMH 314	58.3	55.3	49.5	54.4	52.0	46.3	51.0	49.8	49.3	55.3	49.0	62.3	51.3	53.5	55.0	47.3	53.7	48.7	53.0	50.3	51.3	50.7	45.7	50.0	48.7	48.8	51.6		
8	OQPMH 11-6	60.3	62.3	52.5	58.4	54.7	46.0	52.0	50.9	50.7	53.7	49.0	56.3	51.3	52.2	57.0	45.7	54.3	48.7	53.0	49.0	51.3	50.3	49.0	49.3	49.7	49.6	52.1		
9	VEHQ 11-1	68.3	63.7	53.0	61.7	56.3	52.3	62.7	57.1	57.3	52.7	51.3	56.0	58.3	55.1	62.3	56.0	63.0	55.0	69.0	58.0	60.6	55.3	49.0	57.0	60.3	55.4	58.0		
10	VEHQ 14-1	68.7	60.7	51.0	60.1	60.7	49.7	57.3	55.9	54.7	53.7	53.7	57.3	59.0	55.7	62.7	53.7	61.7	53.7	66.0	53.7	58.6	56.3	48.0	57.3	50.0	52.9	56.6		
11	DMRQPM1401	61.0	63.0	50.5	58.2	56.0	47.3	57.7	53.7	51.3	50.7	51.3	56.0	52.7	52.4	59.0	50.0	57.7	50.3	61.0	52.7	55.1	53.7	46.0	52.0	51.3	50.8	53.9		
12	MMH QPM-6-12-13	66.0	63.7	50.0	59.9	58.7	52.0	60.3	57.0	55.3	50.0	53.3	59.3	57.7	55.1	61.7	56.3	62.0	54.0	66.0	54.7	59.1	49.7	46.3	54.0	58.0	52.0	56.6		
CHECKS																														
13	HQPM1	68.0	60.0	59.5	62.5	62.3	49.7	56.0	56.0	52.3	50.0	53.7	56.0	59.7	54.3	63.3	53.0	62.3	54.3	68.3	55.3	59.4	49.0	49.7	54.0	52.7	51.3	56.6		
14	HQPM4	68.7	62.3	56.0	62.3	56.7	51.7	58.3	55.6	57.3	56.0	54.3	56.0	58.7	56.5	61.7	56.0	61.3	55.0	62.0	58.0	59.0	53.0	47.3	58.0	52.0	52.6	57.2		
15	HQPM5-C	63.3	63.0	54.5	60.3	57.0	53.0	62.0	57.3	55.3	55.0	53.7	57.3	59.7	56.2	61.7	56.0	62.7	55.0	69.3	57.3	60.3	52.0	49.7	57.7	59.7	54.8	57.8		
16	Vivek QPM-9-C	57.0	55.3	52.5	54.9	52.7	41.7	51.0	48.4	49.3	48.0	47.7	56.3	49.7	50.2	52.3	44.3	52.3	47.3	52.0	53.3	50.3	47.7	48.0	48.0	46.7	47.6	50.2		
Loc. Mean		63.8	60.1	52.6	58.8	55.9	48.4	55.9	53.4	52.3	53.5	51.0	56.9	54.7	53.7	58.9	50.9	58.2	51.3	61.2	53.3	55.6	51.7	47.3	53.1	52.6	51.2	54.5		
C.D. (5%)		0.98	2.42	3.89	5.08	1.23	1.94	2.13	3.64	2.26	1.41	2.36	1.08	1.77	3.03	2.71	0.78	1.51	1.21	2.47	3.40	1.95	1.65	3.20	1.25	1.31	3.62	1.41		
C.V. (%)		0.92	2.41	3.47	5.17	1.32	2.41	2.28	4.08	2.58	1.58	2.77	1.14	1.94	4.47	2.76	0.92	1.56	1.41	2.42	3.83	3.05	1.91	4.05	1.41	1.49	4.96	4.26		
F (Prob)		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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00		

Table No. 23 (Continued)

		DAYS TO 75% DRY HUSK																						OV'L		
S.No.	PEDIGREE	ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		Mean	Mean					
		ALMO	BAJA	KANG	Mean	KARN	LUDH	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	COIM	HYDE	KARI	KOLH	MAND			Mean	AMBI	BANS	GODH	UDAI
1	BAU QMH-17	109.3	117.0	93.0	106.4	87.0	88.7	87.8	87.3	97.0	84.0	93.0	94.3	91.1	93.3	92.0	87.7	95.0	97.3	93.1	92.3	79.7	88.0	88.0	87.0	92.8
2	BQPMH 18	100.7	103.3	91.5	98.5	88.3	82.0	85.2	80.7	95.0	78.0	94.3	82.7	86.1	88.7	91.0	78.0	90.0	91.3	87.8	84.0	78.3	84.0	78.7	81.3	87.4
3	BQPMH 36	106.7	104.0	90.0	100.2	87.0	83.3	85.2	81.7	96.0	81.3	93.0	86.7	87.7	90.0	90.7	86.3	94.0	94.0	91.0	86.0	78.3	87.0	84.7	84.0	89.5
4	KDQH-49 (Zone-I)	101.0	97.3	96.5	98.3	84.3	82.7	83.5	76.7	94.0	73.3	91.3	81.7	83.4	85.7	85.7	77.3	84.0	91.3	84.8	81.0	77.3	79.3	78.3	79.0	85.2
5	LQPMH 114	102.0	103.3	92.5	99.3	84.7	83.3	84.0	81.3	95.0	79.7	92.3	83.3	86.3	88.7	92.0	79.0	88.0	94.0	88.3	84.0	79.0	85.0	79.0	81.8	87.7
6	LQPMH 214	103.3	106.0	90.0	99.8	85.0	82.3	83.7	79.7	89.0	79.7	90.7	83.3	84.5	90.0	90.7	83.3	92.0	93.3	89.9	80.0	79.0	85.3	79.7	81.0	87.5
7	LQPMH 314	102.3	101.0	90.5	97.9	84.0	84.3	84.2	79.3	88.0	75.7	91.7	82.3	83.4	87.3	85.3	78.7	83.0	90.7	85.0	77.3	78.7	81.0	78.3	78.8	85.2
8	OQPMH 11-6	102.0	104.0	92.0	99.3	83.7	82.7	83.2	79.3	92.0	77.0	91.7	83.3	84.7	86.7	87.3	78.7	83.0	90.7	85.3	90.0	79.7	80.7	79.0	82.3	86.5
9	VEHQ 11-1	110.3	115.0	93.5	106.3	89.3	85.7	87.5	86.3	89.3	82.3	96.7	90.7	89.1	96.0	94.3	90.0	99.0	98.0	95.5	91.0	81.7	87.0	87.3	86.8	92.8
10	VEHQ 14-1	111.0	117.3	92.0	106.8	89.7	93.7	91.7	83.0	91.0	83.0	95.7	96.3	89.8	94.0	92.0	88.7	96.0	97.3	93.6	91.0	80.0	88.3	79.0	84.6	92.6
11	DMRQPM1401	100.7	111.0	90.0	100.6	88.0	82.0	85.0	78.7	88.0	76.7	94.7	81.7	83.9	90.0	90.7	85.3	91.0	94.0	90.2	85.3	78.3	83.3	80.3	81.8	87.9
12	MMH QPM-6-12-13	106.7	113.0	90.5	103.4	89.7	86.0	87.8	83.3	87.3	83.7	93.3	92.3	88.0	96.3	92.3	89.0	96.0	94.7	93.7	91.3	78.7	87.0	87.0	86.0	91.5
CHECKS																										
13	HQPM1	105.7	114.7	99.5	106.6	93.3	93.0	93.2	87.7	88.0	85.3	97.7	97.0	91.1	93.3	95.0	89.3	98.0	97.3	94.6	91.3	82.0	85.0	81.0	84.8	93.4
14	HQPM4	110.7	114.0	95.5	106.7	87.7	88.7	88.2	90.3	95.0	86.0	96.0	92.3	91.9	96.0	87.3	90.0	92.0	95.3	92.1	93.0	79.3	87.3	80.0	84.9	92.4
15	HQPM5-C	112.3	114.3	95.0	107.2	87.0	91.3	89.2	88.3	90.0	84.0	96.7	91.7	90.1	96.0	94.3	90.0	99.0	98.0	95.5	91.7	82.3	88.0	79.7	85.4	93.1
16	Vivek QPM-9-C	96.7	96.0	93.5	95.4	84.7	81.0	82.8	83.3	79.0	75.7	90.0	82.7	82.1	85.3	85.0	77.3	82.0	90.7	84.1	78.3	80.0	78.3	76.7	78.3	84.0
Loc. Mean		105.1	108.2	92.8	102.0	87.1	85.7	86.4	82.9	90.9	80.3	93.7	87.6	87.1	91.1	90.4	84.3	91.4	94.3	90.3	86.7	79.5	84.7	81.0	83.0	89.3
C.D. (5%)		2.03	3.56	4.20	6.52	1.23	5.39	4.75	2.10	1.59	4.18	2.32	2.47	3.93	1.01	2.24	1.98	-	2.64	2.54	1.08	2.75	2.86	1.19	3.91	1.77
C.V. (%)		1.16	1.97	2.12	3.83	0.85	3.77	2.58	1.52	1.05	3.12	1.48	1.69	3.57	0.66	1.49	1.41	-	1.68	2.22	0.74	2.07	2.03	0.88	3.31	3.10
F (Prob)		0.00	0.00	0.01	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	0.03	0.00	0.00	0.00	0.00

Table No. 23 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)																										
		ALMO	BAJA	KANG	ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		OV'L					
		Mean	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	AMBI	BANS	GODH	UDAI	Mean	Mean			
1	BAU QMH-17	168.3	175.0	194.0	179.1	186.7	198.3	229.7	204.9	127.0	140.6	161.7	169.9	136.7	147.2	143.5	169.1	176.3	170.0	133.3	199.7	165.3	203.6	187.0	175.7	178.3	186.2	172.6
2	BQPMH 18	168.3	186.7	193.5	182.8	200.0	213.3	252.3	221.9	187.4	168.0	160.0	182.8	166.7	173.0	165.0	185.7	215.0	191.7	158.3	201.3	186.2	222.7	212.0	196.3	186.7	204.4	191.1
3	BQPMH 36	181.7	199.3	177.5	186.2	208.3	220.0	238.3	222.2	191.0	173.3	167.0	179.3	168.3	175.8	172.5	180.1	230.7	195.0	163.3	214.3	192.7	235.5	195.0	190.7	175.0	199.1	193.2
4	KDQH-49 (Zone-I)	160.0	165.0	197.5	174.2	163.3	193.3	225.3	194.0	172.5	150.4	150.0	185.3	156.7	163.0	138.0	163.7	204.0	170.0	148.3	198.7	170.4	205.3	195.3	179.7	183.3	190.9	176.5
5	LQPMH 114	175.0	185.0	207.0	189.0	185.0	223.3	230.0	212.8	180.6	162.9	137.3	185.1	150.0	163.2	164.0	178.7	205.3	163.3	155.0	207.7	179.0	218.1	187.0	181.7	195.0	195.5	184.6
6	LQPMH 214	178.3	199.0	209.5	195.6	166.7	238.3	248.7	217.9	153.7	154.7	167.3	181.2	161.7	163.7	180.0	189.0	235.0	215.0	176.7	228.0	203.9	242.5	206.3	205.3	185.0	209.8	196.3
7	LQPMH 314	180.0	178.3	185.0	181.1	188.3	226.7	256.3	223.8	180.8	172.9	160.0	176.1	161.7	170.3	151.0	176.3	216.0	201.7	151.7	201.3	183.0	227.5	196.7	188.0	186.7	199.7	188.7
8	OQPMH 11-6	151.7	168.3	211.5	177.2	200.0	175.0	210.3	195.1	186.9	128.9	138.3	165.1	136.7	151.2	135.5	150.4	179.7	146.7	150.0	200.7	160.5	196.7	194.0	162.3	183.3	184.1	170.1
9	VEHQ 11-1	168.3	201.7	230.5	200.2	208.3	238.3	261.0	235.9	182.8	166.7	159.7	183.1	151.7	168.8	174.5	174.1	228.7	201.7	161.7	225.0	194.3	233.0	200.7	201.7	185.0	205.1	197.1
10	VEHQ 14-1	175.0	193.3	215.0	194.4	166.7	235.0	253.0	218.2	219.9	166.7	155.3	167.4	143.3	170.5	165.0	175.1	239.0	205.0	173.3	212.3	195.0	226.9	197.0	196.0	208.3	207.1	194.7
11	DMRQPM1401	161.7	203.3	202.5	189.2	160.0	213.3	225.3	199.6	153.4	158.1	171.3	164.6	150.0	159.5	131.0	152.9	188.7	166.7	143.3	196.7	163.2	209.7	190.3	176.0	186.7	190.7	176.5
12	MMH QPM-6-12-13	186.7	210.0	186.5	194.4	175.0	270.0	258.7	234.6	171.8	178.3	161.7	190.1	170.0	174.4	185.5	193.5	229.0	206.7	173.3	214.7	200.5	231.5	217.7	197.7	203.3	212.5	200.6
	CHECKS																											
13	HQPM1	173.3	191.7	217.5	194.2	168.3	210.0	242.3	206.9	207.2	156.5	153.7	169.9	143.3	166.1	154.0	178.3	220.3	185.0	151.7	202.0	181.9	228.9	173.7	186.0	183.3	193.0	185.6
14	HQPM4	178.3	210.0	208.0	198.8	186.7	280.0	286.0	250.9	156.0	189.1	184.0	180.3	175.0	176.9	178.0	191.3	242.7	216.7	170.0	221.0	203.3	257.7	240.0	211.0	206.7	228.8	208.0
15	HQPM5-C	165.0	216.7	205.0	195.6	206.7	220.0	261.7	229.4	184.8	162.7	171.7	176.5	156.7	170.5	164.0	178.1	216.0	208.3	168.3	207.0	190.3	229.6	200.0	192.7	178.3	200.2	193.8
16	Vivek QPM-9-C	176.7	186.7	207.0	190.1	188.3	226.7	225.7	213.6	201.8	140.9	140.0	183.0	153.3	163.8	160.5	181.4	211.0	186.7	166.7	207.3	185.6	221.4	204.0	175.0	185.0	196.4	187.1
	Loc. Mean	171.8	191.9	203.0	188.9	184.9	223.9	244.0	217.6	178.6	160.7	158.7	177.5	155.1	166.1	160.1	176.1	214.8	189.4	159.1	208.6	184.7	224.4	199.8	188.5	188.1	200.2	188.5
	C.D. (5%)	8.10	20.12	26.21	20.55	6.47	26.36	9.77	28.85	53.08	8.27	21.09	9.74	14.83	17.66	10.33	8.03	15.24	31.16	19.62	16.81	9.39	19.56	42.61	16.94	9.98	12.40	7.26
	C.V. (%)	2.83	6.29	6.06	6.53	2.10	7.06	2.40	7.95	17.82	3.09	7.97	3.29	5.74	8.41	3.87	2.73	4.25	9.87	7.40	4.83	4.42	5.23	12.79	5.39	3.18	4.35	6.34
	F (Prob)	0.00	0.00	0.05	0.28	0.00	0.00	0.00	0.02	0.14	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00

Table No. 23 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm)																										
		ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		OV'L								
		ALMO	BAJA	KANG	Mean	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	AMBI	BANS	GODH	UDAI	Mean	Mean
1	BAU QMH-17	78.3	76.7	90.5	81.8	95.0	95.0	87.7	92.6	46.7	58.2	76.7	81.3	60.0	64.6	61.5	80.1	81.3	71.7	55.0	88.7	73.1	54.1	103.7	117.0	78.3	88.3	78.0
2	BQPMH 18	75.0	96.7	92.5	88.1	95.0	113.3	99.3	102.6	91.0	82.8	78.3	81.1	66.7	80.0	76.0	103.8	91.3	93.3	73.3	92.0	88.3	76.9	115.7	107.3	80.0	95.0	89.6
3	BQPMH 36	90.0	108.3	100.5	99.6	116.7	123.3	105.7	115.2	94.6	83.2	83.7	85.3	85.0	86.4	86.5	97.8	114.0	95.0	76.7	105.7	95.9	93.5	110.7	102.7	85.0	98.0	97.3
4	KDQH-49 (Zone-I)	73.3	75.0	102.0	83.4	76.7	101.7	82.7	87.0	67.0	74.6	73.3	89.5	71.7	75.2	59.5	86.7	95.0	80.0	58.3	88.3	78.0	70.5	107.0	117.7	85.0	95.0	82.6
5	LQPMH 114	76.7	78.3	107.0	87.3	95.0	116.7	83.3	98.3	72.7	61.2	68.3	87.1	66.7	71.2	61.0	84.3	95.7	76.7	63.3	94.7	79.3	59.6	97.3	87.3	85.0	82.3	81.8
6	LQPMH 214	83.3	93.3	108.0	94.9	66.7	130.0	102.0	99.6	112.8	61.4	77.3	81.2	81.7	82.9	82.5	107.7	97.3	105.0	93.3	116.3	100.4	86.3	108.3	114.0	88.3	99.2	95.1
7	LQPMH 314	83.3	90.0	89.0	87.4	98.3	131.7	107.3	112.4	76.8	64.5	85.0	81.1	81.7	77.8	57.0	96.6	82.0	96.7	58.3	97.7	81.4	77.3	104.0	125.0	85.0	97.8	89.0
8	OQPMH 11-6	75.0	91.7	105.0	90.6	100.0	113.3	90.7	101.3	98.4	64.3	69.0	77.9	71.7	76.2	61.0	90.4	85.3	80.0	66.7	91.3	79.1	61.6	112.0	85.3	85.0	86.0	84.5
9	VEHQ 11-1	81.7	108.3	124.0	104.7	93.3	136.7	100.0	110.0	77.1	79.9	85.0	89.7	75.0	81.3	83.0	98.9	98.3	113.3	80.0	106.0	96.6	83.5	120.3	106.3	85.0	98.8	96.4
10	VEHQ 14-1	85.0	91.7	116.0	97.6	81.7	120.0	91.3	97.7	100.6	76.0	75.7	75.5	65.0	78.6	76.0	97.9	81.0	96.7	73.3	98.3	87.2	74.5	97.3	103.7	91.7	91.8	89.0
11	DMRQPM1401	73.3	102.7	101.0	92.3	83.3	108.3	89.3	93.7	80.4	76.3	80.0	75.7	70.0	76.5	54.5	80.7	91.7	85.0	63.3	87.3	77.1	71.5	107.0	85.3	81.7	86.4	83.3
12	MMH QPM-6-12-13	88.3	100.0	85.5	91.3	88.3	136.7	115.7	113.6	75.8	86.9	80.7	95.5	83.3	84.4	86.0	97.2	98.0	105.0	81.7	110.3	96.4	89.5	110.3	95.0	90.0	96.2	95.2
	CHECKS																											
13	HQPM1	83.3	85.0	114.0	94.1	88.3	138.3	90.0	105.6	96.7	70.7	68.3	72.3	56.7	72.9	62.5	86.2	80.3	81.7	61.7	95.3	78.0	60.9	92.0	91.7	78.3	80.7	83.5
14	HQPM4	85.0	110.0	107.5	100.8	101.7	160.0	113.0	124.9	97.5	87.5	91.7	87.4	90.0	90.8	90.5	112.9	112.0	125.0	81.7	110.7	105.5	91.1	133.7	116.0	103.3	111.0	105.2
15	HQPM5-C	76.7	118.3	107.0	100.7	111.7	155.0	115.7	127.4	94.4	76.4	86.7	79.5	76.7	82.7	77.5	101.8	90.7	111.7	70.0	106.7	93.1	78.0	114.0	106.0	85.0	95.8	97.1
16	Vivek QPM-9-C	83.3	86.7	113.5	94.5	88.3	123.3	81.3	97.7	81.1	63.5	70.0	89.8	63.3	73.6	69.0	90.9	76.3	75.0	66.7	88.0	77.7	66.3	104.0	83.7	86.7	85.1	83.4
	Loc. Mean	80.7	94.5	103.9	93.1	92.5	125.2	97.2	105.0	85.2	73.0	78.1	83.1	72.8	78.4	71.5	94.6	91.9	93.2	70.2	98.6	86.7	74.7	108.6	102.8	85.8	93.0	89.4
	C.D. (5%)	8.24	15.11	20.38	15.61	7.59	37.66	8.52	17.32	2.36	4.62	14.70	6.67	12.67	11.53	5.42	8.00	6.69	16.38	12.72	13.72	7.17	10.03	33.56	46.62	8.00	11.99	5.28
	C.V. (%)	6.12	9.58	9.20	10.06	4.92	18.04	5.26	9.89	1.66	3.79	11.28	4.81	10.44	11.62	4.55	5.07	4.37	10.54	10.87	8.35	7.20	8.05	18.54	27.21	5.59	9.06	9.73
	F (Prob)	0.00	0.00	0.05	0.18	0.00	0.07	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.78	0.00	0.00	0.00

Table No. 24:

PERFORMANCE OF SWEETCORN EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, KARNAL, LUDHIANA, PANTNAGAR, BAHRAICH, BHUBNESHWAR, DHOLI, RANCHI, VARANASI, ARHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, AMBIKAPUR, BANSWARA, GODHARA, UDAIPUR IN TRIAL No. SC DURING KHARIF (2014)

S.No.	PEDIGREE	GREEN EAR YIELD (kg/ha)																							
		ALMO				BAJA				KANG				ZN 1				ZN 2				ZN 3			
		ALMO	R	BAJA	R	KANG	R	Mean	R	KARN	R	PANT	R	Mean	R	BAHR	R	VARA	R	Mean	R	COIM	R	HYDE	R
1	ADVSW -1	13395	1	17243	4	9667	2	13435	1	12250	10	13333	4	12792	5	14427	6	6076	9	14427	6	24160	1	19231	1
2	ADVSW -2	13148	2	18162	1	8139	8	13150	2	13583	2	15417	1	14500	1	11406	11	7639	7	11406	11	21142	3	16969	3
3	ASKH 1	10000	8	14208	12	8632	7	10947	10	12444	7	11667	8	12056	9	17865	2	8993	2	17865	2	18840	8	14747	7
4	Bajoura Sweet Corn	8765	11	15736	7	5250	13	9917	12	13472	4	8125	11	10799	12	15104	5	4688	13	15104	5	15326	11	9767	15
5	Bisco Madhu	10556	6	16006	6	7479	10	11347	9	12444	7	12500	5	12472	6	16823	3	9653	1	16823	3	18094	9	15742	5
6	BSCH 6	8457	12	15330	9	7042	11	10276	11	12306	8	12083	6	12194	7	10729	13	8576	3	10729	13	20618	5	14511	8
7	BSCH 63	7593	13	14045	14	6799	12	9479	14	13750	1	11875	7	12813	4	9896	15	7778	6	9896	15	20234	6	13483	11
8	FSCH 18	9198	10	15392	8	9861	1	11484	8	9778	12	10000	9	9889	13	10781	12	4896	12	10781	12	14358	14	12792	12
9	FSCH 41	11358	4	15134	10	8757	6	11750	6	12472	6	13750	3	13111	3	11510	10	7917	4	11510	10	17578	10	14292	9
10	FSCH 55	11358	4	17289	3	9083	5	12577	3	8250	14	13750	3	11000	11	13021	8	7639	7	13021	8	14656	12	12675	13
11	KSCH-333	10247	7	17366	2	7590	9	11734	7	12944	5	9167	10	11056	10	13490	7	7882	5	13490	7	22531	2	15619	6
12	QMHSC-1182	10864	5	16792	5	9174	4	12277	5	12278	9	12083	6	12181	8	18385	1	6701	8	18385	1	19601	7	16944	4
13	SWC 001 (Zone IV)	12963	3	15050	11	9618	3	12544	4	13528	3	13875	2	13701	2	11979	9	8993	2	11979	9	20722	4	18803	2
CHECKS																									
14	Madhuri	9877	9	14177	13	5076	15	9710	13	10833	11	6875	12	8854	14	10677	14	4965	11	10677	14	14479	13	14247	10
15	WOSC	7407	14	13090	15	5181	14	8559	15	8750	13	6708	13	7729	15	15573	4	5677	10	15573	4	12625	15	12111	14
Loc. Mean		10346		15668		7823		11279		11939		11414		11676		13444		7205		13444		18331		14796	
C.D. (5%)		1751		2257		944		1796		532		1194		4040		5661		3163		5661		824		2132	
C.V. (%)		10.12		8.61		7.21		9.52		2.67		6.26		16.13		19.63		26.25		19.63		2.69		8.62	
F (Prob)		0.00		0.00		0.00		0.00		0.00		0.00		0.13		0.07		0.04		0.07		0.00		0.00	

Locations Rejected due to High C.V.(i.e.> 20%) : VARANASI 26.2%

Table No. 24 (CONT..)

GREEN EAR YIELD % SUPERRIORITY OVER THE MADHURI																						
S.No.	PEDIGREE	ZN 1			ZN 2			ZN 3			ZN 4			ZN 5			OV'L					
		ALMO	BAJA	KANG	Mean	KARN	PANT	Mean	BAHR	VARA	Mean	COIM	HYDE	KARI	KOLH	MAND		Mean	AMBI	GODH	UDAI	Mean
1	ADVSW -1	35.6	21.6	90.4	38.4	13.1	93.9	44.5	35.1	22.4	35.1	66.9	35.0	122.9	61.1	53.6	64.4	89.9	137.2	43.4	85.0	56.2
2	ADVSW -2	33.1	28.1	60.3	35.4	25.4	124.2	63.8	6.8	53.9	6.8	46.0	19.1	105.0	95.1	32.2	49.8	69.1	130.7	42.7	75.8	48.5
3	ASKH 1	1.2	0.2	70.1	12.7	14.9	69.7	36.2	67.3	81.1	67.3	30.1	3.5	62.7	38.4	19.8	26.9	29.2	147.2	5.1	52.1	31.8
4	Bajoura Sweet Corn	-11.3	11.0	3.4	2.1	24.4	18.2	22.0	41.5	-5.6	41.5	5.8	-31.4	15.7	2.2	-11.5	-6.5	-32.0	11.4	-17.5	-14.6	2.2
5	Bisco Madhu	6.9	12.9	47.3	16.9	14.9	81.8	40.9	57.6	94.4	57.6	25.0	10.5	80.9	26.2	45.8	34.9	132.6	122.9	47.8	97.5	42.2
6	BSCH 6	-14.4	8.1	38.7	5.8	13.6	75.8	37.7	0.5	72.7	0.5	42.4	1.9	60.2	36.4	24.1	30.2	42.1	83.6	58.3	59.6	27.3
7	BSCH 63	-23.1	-0.9	33.9	-2.4	26.9	72.7	44.7	-7.3	56.7	-7.3	39.7	-5.4	57.1	40.0	26.0	27.7	65.7	67.1	39.7	56.2	24.3
8	FSCH 18	-6.9	8.6	94.3	18.3	-9.7	45.5	11.7	1.0	-1.4	1.0	-0.8	-10.2	54.2	37.7	11.3	11.5	22.5	103.6	-5.1	34.0	15.3
9	FSCH 41	15.0	6.8	72.5	21.0	15.1	100.0	48.1	7.8	59.5	7.8	21.4	0.3	81.8	64.9	36.7	32.6	82.6	141.4	53.2	87.4	37.7
10	FSCH 55	15.0	22.0	78.9	29.5	-23.8	100.0	24.2	22.0	53.9	22.0	1.2	-11.0	67.1	30.8	17.4	14.8	74.1	110.7	19.0	63.0	26.7
11	KSCH-333	3.7	22.5	49.5	20.8	19.5	33.3	24.9	26.3	58.8	26.3	55.6	9.6	80.6	-14.9	4.6	30.9	87.6	145.7	45.2	87.2	35.3
12	QMHSC-1182	10.0	18.4	80.7	26.4	13.3	75.8	37.6	72.2	35.0	72.2	35.4	18.9	66.8	74.3	27.1	37.7	115.7	74.3	58.0	82.4	44.2
13	SWC 001 (Zone IV)	31.2	6.2	89.5	29.2	24.9	101.8	54.7	12.2	81.1	12.2	43.1	32.0	78.4	96.9	27.3	47.2	91.6	92.1	60.0	79.7	45.7
CHECKS																						
14	Madhuri																					
15	WOSC	-25.0	-7.7	2.1	-11.9	-19.2	-2.4	-12.7	45.9	14.3	45.9	-12.8	-15.0	20.4	33.6	16.4	2.1	-21.9	44.3	33.2	17.2	2.6

GREEN EAR YIELD % SUPERRIORITY OVER THE WOSC																						
S.No.	PEDIGREE	ZN 1			ZN 2			ZN 3			ZN 4			ZN 5			OV'L					
		ALMO	BAJA	KANG	Mean	KARN	PANT	Mean	BAHR	VARA	Mean	COIM	HYDE	KARI	KOLH	MAND		Mean	AMBI	GODH	UDAI	Mean
1	ADVSW -1	80.8	31.7	86.6	57.0	40.0	98.8	65.5	-7.4	7.0	-7.4	91.4	58.8	85.2	20.6	32.0	61.1	143.2	64.4	7.6	57.9	52.2
2	ADVSW -2	77.5	38.7	57.1	53.6	55.2	129.8	87.6	-26.8	34.6	-26.8	67.5	40.1	70.3	46.1	13.6	46.8	116.6	59.9	7.1	50.0	44.7
3	ASKH 1	35.0	8.5	66.6	27.9	42.2	73.9	56.0	14.7	58.4	14.7	49.2	21.8	35.2	3.6	3.0	24.4	65.5	71.3	-21.1	29.8	28.5
4	Bajoura Sweet Corn	18.3	20.2	1.3	15.9	54.0	21.1	39.7	-3.0	-17.4	-3.0	21.4	-19.4	-3.9	-23.5	-24.0	-8.4	-13.0	-22.8	-38.0	-27.1	-0.4
5	Bisco Madhu	42.5	22.3	44.4	32.6	42.2	86.3	61.4	8.0	70.0	8.0	43.3	30.0	50.3	-5.5	25.3	32.1	197.9	54.4	10.9	68.6	38.6
6	BSCH 6	14.2	17.1	35.9	20.1	40.6	80.1	57.8	-31.1	51.1	-31.1	63.3	19.8	33.1	2.1	6.7	27.5	82.0	27.2	18.8	36.2	24.1
7	BSCH 63	2.5	7.3	31.2	10.7	57.1	77.0	65.8	-36.5	37.0	-36.5	60.3	11.3	30.5	4.8	8.3	25.1	112.2	15.8	4.8	33.3	21.1
8	FSCH 18	24.2	17.6	90.3	34.2	11.7	49.1	27.9	-30.8	-13.8	-30.8	13.7	5.6	28.1	3.1	-4.4	9.3	56.8	41.1	-28.8	14.4	12.4
9	FSCH 41	53.3	15.6	69.0	37.3	42.5	105.0	69.6	-26.1	39.5	-26.1	39.2	18.0	51.0	23.4	17.5	29.9	133.8	67.3	15.0	59.9	34.2
10	FSCH 55	53.3	32.1	75.3	46.9	-5.7	105.0	42.3	-16.4	34.6	-16.4	16.1	4.7	38.8	-2.1	0.9	12.4	123.0	46.0	-10.7	39.1	23.5
11	KSCH-333	38.3	32.7	46.5	37.1	47.9	36.7	43.0	-13.4	38.8	-13.4	78.5	29.0	50.0	-36.3	-10.1	28.3	140.3	70.3	9.0	59.8	31.8
12	QMHSC-1182	46.7	28.3	77.1	43.4	40.3	80.1	57.6	18.1	18.0	18.1	55.3	39.9	38.5	30.5	9.2	34.9	176.3	20.8	18.6	55.7	40.5
13	SWC 001 (Zone IV)	75.0	15.0	85.6	46.6	54.6	106.8	77.3	-23.1	58.4	-23.1	64.1	55.3	48.2	47.4	9.4	44.2	145.3	33.2	20.1	53.3	42.0
CHECKS																						
14	Madhuri	33.3	8.3	-2.0	13.4	23.8	2.5	14.6	-31.4	-12.5	-31.4	14.7	17.6	-16.9	-25.1	-14.1	-2.0	28.1	-30.7	-24.9	-14.6	-2.5
15	WOSC																					

Table No. 24 (CONT..)

S.No.	PEDIGREE	COB WEIGHT (kg/ha)																			
		KARN			LUDH			PANT			ZN 2			ZN 3			ZN 4			ZN 5	
1	ADVSW-1	8944	11250	9361	9852	9931	11632	5333	12098	3056	9688	13611	24160	12050	14417	5950	14038	4080	7615	5847	10808
2	ADVSW-2	10500	9375	10694	10190	11944	11285	4778	13571	4861	9878	12639	21142	11333	12833	6958	12981	3403	9757	6580	10636
3	ASKH 1	8500	9306	8833	8880	11806	9861	5083	13929	5833	9624	10278	18840	9822	10861	4164	10793	6979	8583	7781	9618
4	Bajoura SweetCorn	8778	6250	5556	6861	9410	7292	4528	8839	3785	6886	7465	15326	6303	7361	3650	8021	5451	4153	4802	6996
5	Bisco Madhu	7917	12917	8750	9861	6667	11111	5028	12098	5938	9412	12361	18094	10600	10556	4800	11282	5573	7101	6337	9762
6	BSCH 6	8472	7188	7944	7868	8715	8333	4806	12768	5694	8636	11458	20618	9392	10694	4581	11349	8674	5986	7330	9301
7	BSCH 63	8944	8194	7611	8250	10486	8090	4694	11250	5313	8012	9271	20234	9744	10917	4678	10969	7514	5260	6387	8954
8	FSCH 18	6361	9306	6944	7537	11042	9792	5333	13482	2882	9536	9931	14358	9553	11250	4533	9925	5816	8042	6929	8823
9	FSCH 41	8306	11076	9667	9683	8229	8889	4944	12232	4722	8689	10938	17578	10844	12500	5419	11456	5917	8997	7457	9793
10	FSCH 55	5250	8299	9333	7627	10451	9479	5722	12188	4410	9130	12153	14656	9494	11750	3856	10382	6042	7986	7014	8939
11	KSCH-333	8583	10938	6389	8637	5313	10729	4583	15446	4688	10253	11528	22531	10497	11972	2208	11747	6076	8455	7266	9995
12	QMHSC-1182	8639	8750	8472	8620	6667	9028	5028	9911	4271	7989	13333	19601	12753	11611	5808	12621	7861	6868	7365	9820
13	SWC001 (Zone IV)	9889	10938	8889	9905	6181	8542	4639	13036	5972	8739	11597	20722	12633	12278	5769	12600	6972	7167	7069	10236
CHECKS																					
14	Madhuri	6583	1979	4583	4382	6701	10208	4944	9196	2639	8116	7465	14479	8967	6750	3733	8279	4167	3899	4033	6689
15	WOSC	5556	4514	4583	4884	6493	7604	4806	9866	3281	7425	7674	12625	7772	8861	3461	8079	3733	5569	4651	6663
Loc. Mean		8082	8685	7841	8203	8669	9458	4950	11994	4490	8801	10780	18331	10117	10974	4638	10968	5884	7029	6457	9136
C.D. (5%)		206	2091	1466	2490	4222	619	851	1393	2305	1932	2389	824	1351	831	1017	1795	1632	780	3635	1129
C.V. (%)		1.52	14.40	11.18	18.15	29.12	3.91	10.28	6.94	30.69	13.13	13.25	2.69	7.98	4.53	13.12	12.92	16.58	6.63	26.25	15.96
F (Prob)		0.00	0.00	0.00	0.00	0.03	0.00	0.32	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : BAHRAICH 29.1%: VARANASI 30.7%: Mean!ZN 5 26.3%

Table No. 24 (Continued)

COB WEIGHT SUPERIORITY OVER THE CHECK MADHURI																				
S.No.	PEDIGREE	ZN 2									ZN 3				ZN 4				ZN 5	OV'L
		KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	HYDE	KARI	KOLH	Mean	BANS	GODH	Mean	Mean
1	ADVSW-1	35.9	468.4	104.2	124.8	48.2	13.9	7.9	31.6	15.8	19.4	82.3	34.4	113.6	59.4	71.0	-2.1	95.3	45.0	60.5
2	ADVSW-2	59.5	373.7	133.3	132.5	78.2	10.5	-3.4	47.6	84.2	21.7	69.3	26.4	90.1	86.4	62.6	-18.3	150.2	63.2	61.6
3	ASKH 1	29.1	370.2	92.7	102.6	76.2	-3.4	2.8	51.5	121.1	18.6	37.7	9.5	60.9	11.5	30.5	67.5	120.1	92.9	46.5
4	Bajoura SweetCorn	33.3	215.8	21.2	56.6	40.4	-28.6	-8.4	-3.9	43.4	-15.2	0.0	-29.7	9.1	-2.2	-7.9	30.8	6.5	19.1	4.3
5	Bisco Madhu	20.3	552.6	90.9	125.0	-0.5	8.8	1.7	31.6	125.0	16.0	65.6	18.2	56.4	28.6	42.4	33.7	82.1	57.1	50.1
6	BSCH 6	28.7	263.2	73.3	79.6	30.1	-18.4	-2.8	38.8	115.8	6.4	53.5	4.7	58.4	22.7	34.2	108.2	53.5	81.7	38.4
7	BSCH 63	35.9	314.0	66.1	88.3	56.5	-20.7	-5.1	22.3	101.3	-1.3	24.2	8.7	61.7	25.3	28.6	80.3	34.9	58.4	32.7
8	FSCH 18	-3.4	370.2	51.5	72.0	64.8	-4.1	7.9	46.6	9.2	17.5	33.0	6.5	66.7	21.4	31.0	39.6	106.2	71.8	38.4
9	FSCH 41	26.2	459.6	110.9	121.0	22.8	-12.9	0.0	33.0	78.9	7.0	46.5	20.9	85.2	45.2	47.5	42.0	130.7	84.9	51.4
10	FSCH 55	-20.3	319.3	103.6	74.1	56.0	-7.1	15.7	32.5	67.1	12.5	62.8	5.9	74.1	3.3	38.4	45.0	104.8	73.9	40.1
11	KSCH-333	30.4	452.6	39.4	97.1	-20.7	5.1	-7.3	68.0	77.6	26.3	54.4	17.1	77.4	-40.8	34.5	45.8	116.8	80.2	48.2
12	QMHC-1182	31.2	342.1	84.8	96.7	-0.5	-11.6	1.7	7.8	61.8	-1.6	78.6	42.2	72.0	55.6	61.6	88.7	76.1	82.6	49.1
13	SWC001 (Zone IV)	50.2	452.6	93.9	126.0	-7.8	-16.3	-6.2	41.7	126.3	7.7	55.3	40.9	81.9	54.5	57.1	67.3	83.8	75.3	55.0
CHECKS																				
14	Madhuri	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	WOSC	-15.6	128.1	0.0	11.5	-3.1	-25.5	-2.8	7.3	24.3	-8.5	2.8	-13.3	31.3	-7.3	3.2	-10.4	42.8	15.3	2.1

COB WEIGHT SUPERIORITY OVER THE CHECK WOSC																				
S.No.	PEDIGREE	ZN 2									ZN 3				ZN 4				ZN 5	OV'L
		KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	HYDE	KARI	KOLH	Mean	BANS	GODH	Mean	Mean
1	ADVSW-1	61.0	149.2	104.2	101.7	52.9	53.0	11.0	22.6	-6.9	30.5	77.4	55.0	62.7	71.9	65.8	9.3	36.7	25.7	57.2
2	ADVSW-2	89.0	107.7	133.3	108.6	84.0	48.4	-0.6	37.6	48.1	33.0	64.7	45.8	44.8	101.0	57.6	-8.8	75.2	41.5	58.3
3	ASKH 1	53.0	106.2	92.7	81.8	81.8	29.7	5.8	41.2	77.8	29.6	33.9	26.4	22.6	20.3	26.5	87.0	54.1	67.3	43.5
4	Bajoura SweetCorn	58.0	38.5	21.2	40.5	44.9	-4.1	-5.8	-10.4	15.3	-7.3	-2.7	-18.9	-16.9	5.5	-10.8	46.0	-25.4	3.2	2.2
5	Bisco Madhu	42.5	186.2	90.9	101.9	2.7	46.1	4.6	22.6	80.9	26.8	61.1	36.4	19.1	38.7	38.0	49.3	27.5	36.2	47.0
6	BSCH 6	52.5	59.2	73.3	61.1	34.2	9.6	0.0	29.4	73.5	16.3	49.3	20.8	20.7	32.3	30.1	132.4	7.5	57.6	35.5
7	BSCH 63	61.0	81.5	66.1	68.9	61.5	6.4	-2.3	14.0	61.9	7.9	20.8	25.4	23.2	35.2	24.6	101.3	-5.5	37.3	30.0
8	FSCH 18	14.5	106.2	51.5	54.3	70.1	28.8	11.0	36.7	-12.2	28.4	29.4	22.9	27.0	31.0	27.0	55.8	44.4	49.0	35.6
9	FSCH 41	49.5	145.4	110.9	98.2	26.7	16.9	2.9	24.0	43.9	17.0	42.5	39.5	41.1	56.6	43.0	58.5	61.5	60.3	48.3
10	FSCH 55	-5.5	83.8	103.6	56.2	61.0	24.7	19.1	23.5	34.4	23.0	58.4	22.2	32.6	11.4	34.2	61.9	43.4	50.8	37.2
11	KSCH-333	54.5	142.3	39.4	76.8	-18.2	41.1	-4.6	56.6	42.9	38.1	50.2	35.1	35.1	-36.2	30.4	62.8	51.8	56.2	45.1
12	QMHC-1182	55.5	93.8	84.8	76.5	2.7	18.7	4.6	0.5	30.2	7.6	73.8	64.1	31.0	67.8	56.7	110.6	23.3	58.3	46.0
13	SWC001 (Zone IV)	78.0	142.3	93.9	102.8	-4.8	12.3	-3.5	32.1	82.0	17.7	51.1	62.5	38.6	66.7	52.3	86.8	28.7	52.0	51.8
CHECKS																				
14	Madhuri	18.5	-56.2	0.0	-10.3	3.2	34.2	2.9	-6.8	-19.6	9.3	-2.7	15.4	-23.8	7.9	-3.1	11.6	-30.0	-13.3	-2.1
15	WOSC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table No. 24 (Continued)

S.No.	PEDIGREE	SWEETNESS (TSS%)											
		ZN 1			ZN 2		ZN 3		ZN 4			ZN 5	
		KANG	KARN	PANT	Mean	RANC	HYDE	KARI	KOLH	Mean	GODH	UDAI	Mean
1	ADVSW -1	18.3	14.7	12.7	13.7	23.3	13.1	12.5	19.0	17.0	13.5	16.0	14.7
2	ADVSW -2	18.9	13.3	12.1	12.7	18.9	12.6	14.5	19.0	16.3	14.5	14.0	14.2
3	ASKH 1	17.3	18.3	14.5	16.4	21.8	18.3	17.4	20.0	19.4	17.4	14.0	15.7
4	Bajoura Sweet Corn	15.5	25.0	12.1	18.5	19.0	20.7	16.8	19.0	18.9	24.3	8.0	16.2
5	Bisco Madhu	15.6	16.3	12.8	14.5	21.2	18.0	15.2	20.0	18.6	14.1	14.0	14.1
6	BSCH 6	20.9	17.0	11.7	14.3	20.8	15.4	14.1	20.0	17.6	12.9	13.0	13.0
7	BSCH 63	15.1	13.3	13.5	13.4	16.0	13.4	14.6	18.0	15.5	15.6	15.0	15.3
8	FSCH 18	16.0	18.3	12.9	15.6	16.0	16.7	14.2	19.0	16.5	16.9	15.0	16.0
9	FSCH 41	15.5	15.0	13.3	14.2	17.9	15.7	12.6	20.0	16.6	12.9	10.0	11.4
10	FSCH 55	15.0	14.3	13.1	13.7	18.8	15.6	17.6	20.0	18.0	15.6	12.0	13.8
11	KSCH-333	18.2	12.3	13.3	12.8	22.6	16.6	16.8	19.0	18.8	15.0	17.0	16.0
12	QMHSC-1182	15.3	14.3	12.9	13.6	17.4	14.9	12.3	20.0	16.2	16.6	7.0	11.8
13	SWC 001 (Zone IV)	19.8	19.0	14.2	16.6	22.0	17.6	14.5	18.0	18.0	12.2	12.0	12.1
	CHECKS												
14	Madhuri	18.9	17.3	11.9	14.6	15.3	17.6	17.4	19.0	17.3	19.0	14.0	16.5
15	WOSC	15.0	16.0	14.3	15.2	19.3	16.2	12.9	15.0	15.9	16.0	8.0	12.0
	Loc. Mean	17.0	16.3	13.0	14.7	19.3	16.2	14.9	19.0	19.0	15.7	12.6	14.2
	C.D. (5%)	0.84	0.77	1.45	5.09	1.92	1.53	5.64	-	3.75	2.37	-	7.52
	C.V. (%)	2.96	2.83	6.66	16.20	5.93	5.66	22.64	-	9.94	9.00	-	24.74
	F (Prob)	0.00	0.00	0.01	0.59	0.00	0.00	0.52	-	0.44	0.00	0.00	0.89

Table No. 24 (Continued)

STAND AT HARVEST ('000/ha)																												
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV'L				
		ALMO	BAJA	KANG	Mean	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	AMBI		BANS	GODH	UDAI	Mean
1	ADVSW -1	63.0	58.3	69.4	63.6	62.8	51.7	36.9	50.5	66.7	62.8	63.1	55.1	49.0	59.3	76.0	66.7	42.5	53.6	51.4	60.1	58.4	71.9	59.0	76.0	36.8	60.9	58.7
2	ADVSW -2	59.9	53.2	71.5	61.5	62.8	48.6	50.6	54.0	65.3	63.2	61.7	56.8	59.7	61.3	79.2	66.7	49.7	48.1	51.7	61.9	59.5	64.9	59.4	71.2	41.2	59.2	59.4
3	ASKH 1	64.8	69.4	76.4	70.2	61.9	66.0	54.2	60.7	65.6	62.2	65.8	58.9	61.5	62.8	78.8	66.7	59.4	59.7	53.3	56.3	62.4	62.5	63.5	84.7	37.3	62.0	63.3
4	Bajoura SC	62.3	71.3	66.0	66.5	64.2	62.8	56.7	61.2	63.5	63.5	62.5	51.5	58.3	59.9	67.4	66.7	49.7	48.6	51.7	56.3	56.7	55.6	61.1	71.5	32.6	55.2	59.2
5	Bisco Madhu	61.1	65.7	68.8	65.2	61.9	68.8	54.4	61.7	66.0	63.9	64.2	53.3	60.4	61.5	78.5	66.3	56.9	52.2	53.3	59.2	61.1	80.2	62.8	63.9	42.8	62.4	62.1
6	BSCH 6	63.6	63.9	67.4	64.9	63.3	72.6	55.0	63.6	64.2	64.2	63.3	54.2	63.2	61.8	85.1	66.0	58.3	50.0	52.2	61.3	62.2	63.5	63.5	77.1	41.7	61.5	62.6
7	BSCH 63	61.1	56.5	75.7	64.4	62.8	57.3	53.3	57.8	66.7	65.6	61.1	51.5	59.4	60.9	71.5	66.3	54.7	51.9	53.3	59.2	59.5	67.7	61.5	66.3	35.9	57.8	60.0
8	FSCH 18	57.4	63.4	77.8	66.2	62.5	68.8	55.3	62.2	62.8	63.2	61.7	58.3	60.8	61.4	77.1	66.3	58.9	51.4	51.7	59.2	60.8	62.2	61.5	74.7	36.3	58.7	61.5
9	FSCH 41	62.3	60.6	79.9	67.6	62.5	70.1	56.4	63.0	67.0	63.5	62.8	48.5	55.2	59.4	76.7	66.0	59.7	58.6	52.8	66.4	63.4	64.6	53.8	82.3	40.7	60.4	62.4
10	FSCH 55	64.2	76.4	75.0	71.9	61.7	76.0	55.0	64.2	63.5	63.5	65.6	54.5	57.6	60.9	81.6	65.6	56.7	61.9	50.0	65.5	63.6	67.7	60.4	77.4	36.1	60.4	63.6
11	KSCH-333	58.0	47.7	72.9	59.5	63.1	58.0	53.3	58.1	62.5	63.2	65.6	49.4	59.4	60.0	82.3	66.0	63.3	55.3	53.3	58.3	63.1	69.4	58.7	77.4	38.2	60.9	60.7
12	QMHC-1182	63.0	64.8	70.1	66.0	62.8	59.4	56.4	59.5	64.9	62.2	60.8	54.2	60.8	60.6	89.6	66.7	58.9	60.6	51.7	60.1	64.6	77.1	56.3	81.9	38.0	63.3	62.9
13	SWC 001	61.7	54.2	68.8	61.5	63.6	60.8	52.8	59.1	63.2	63.2	61.4	53.9	52.1	58.7	73.3	66.7	65.0	50.8	53.1	60.7	61.6	73.3	60.4	58.7	37.0	57.3	59.7
CHECKS																												
14	Madhuri	61.1	63.4	63.2	62.6	62.2	19.1	48.3	43.2	63.2	61.8	61.7	47.3	56.3	58.0	50.3	65.6	68.3	36.9	52.8	60.4	55.7	58.3	53.1	57.6	27.1	49.0	54.2
15	WOSC	63.0	69.0	69.4	67.1	63.6	53.8	48.6	55.3	67.4	63.5	61.4	51.8	59.4	60.7	77.8	65.6	55.0	46.7	53.3	57.7	59.4	54.5	55.6	68.1	42.6	55.2	59.4
	Loc. Mean	61.8	62.5	71.5	65.3	62.8	59.6	52.5	58.3	64.8	63.3	62.8	53.3	58.2	60.5	76.3	66.3	57.1	52.4	52.4	60.2	60.8	66.2	59.4	72.6	37.6	59.0	60.6
	C.D. (5%)	5.57	6.27	7.07	8.52	2.48	15.51	4.89	12.88	5.33	3.93	5.51	7.60	8.03	3.10	7.72	0.65	7.88	2.20	3.50	4.18	5.93	7.33	10.47	4.14	3.31	8.14	3.13
	C.V. (%)	5.39	5.99	5.91	7.80	2.36	15.56	5.57	13.21	4.91	3.71	5.25	8.53	8.25	4.04	6.04	0.58	8.24	2.51	3.99	4.15	8.47	6.62	10.55	3.41	5.26	9.68	8.49
	F (Prob)	0.34	0.00	0.00	0.30	0.79	0.00	0.00	0.14	0.65	0.93	0.65	0.13	0.09	0.22	0.00	0.00	0.00	0.00	0.77	0.00	0.14	0.00	0.61	0.00	0.00	0.10	0.00

Table No. 24 (Continued)

DAYS TO 50% POLLEN SHED																											
S.No.	PEDIGREE	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5		OV'L			
		ALMO	BAJA	KANG	Mean	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KOLH	MAND	Mean	AMBI	BANS	GODH	UDAI	Mean	Mean
1	ADVSW -1	64.3	61.3	53.7	59.8	51.0	53.0	56.7	53.6	49.3	56.7	54.7	48.7	52.0	52.3	60.0	53.0	61.0	65.0	54.3	58.7	55.3	40.3	51.0	52.7	49.8	54.7
2	ADVSW -2	65.3	60.7	53.7	59.9	51.0	50.3	54.3	51.9	47.7	55.0	56.7	51.0	51.7	52.4	60.7	53.0	61.0	65.0	53.3	58.6	47.0	41.3	51.3	56.0	48.9	54.3
3	ASKH 1	58.7	55.7	47.7	54.0	48.0	53.0	48.3	49.8	47.3	49.7	50.0	47.0	46.3	48.1	56.7	49.7	54.0	61.0	50.7	54.4	54.0	43.3	48.7	51.3	49.3	51.1
4	Bajoura Sweet Corn	58.3	54.3	48.3	53.7	48.0	53.7	48.3	50.0	49.3	51.0	50.7	47.0	47.0	49.0	57.0	49.0	54.3	59.0	52.7	54.4	46.7	41.3	49.7	49.0	46.7	50.7
5	Bisco Madhu	62.3	57.3	50.3	56.7	53.0	53.0	53.3	53.1	49.0	57.7	52.7	48.7	47.0	51.0	58.0	51.0	55.7	66.0	52.0	56.5	49.0	42.0	48.7	50.7	47.6	52.9
6	BSCH 6	64.0	62.0	51.3	59.1	46.7	53.3	52.7	50.9	46.7	59.7	56.3	50.0	48.0	52.1	60.0	52.0	58.7	66.0	50.3	57.4	46.7	39.3	52.0	49.3	46.8	53.3
7	BSCH 63	62.7	58.7	52.3	57.9	49.7	50.0	53.0	50.9	47.7	55.3	51.7	50.3	47.0	50.4	59.0	47.7	57.3	60.0	51.7	55.1	46.0	36.3	51.0	52.7	46.5	52.0
8	FSCH 18	57.7	58.0	48.3	54.7	47.7	52.0	52.0	50.6	47.7	49.3	48.0	46.0	45.3	47.3	53.0	45.7	52.3	57.0	50.3	51.7	46.0	40.0	44.3	49.0	44.8	49.5
9	FSCH 41	62.0	56.3	51.3	56.6	50.7	52.7	53.3	52.2	48.3	51.0	51.3	45.3	47.7	48.7	58.0	49.0	55.0	64.0	50.7	55.3	50.0	39.0	50.0	50.3	47.3	51.8
10	FSCH 55	57.7	60.0	49.0	55.6	51.0	50.3	52.0	51.1	47.0	49.7	50.0	46.7	48.3	48.3	54.3	46.7	53.3	64.0	50.0	53.7	46.3	38.3	46.0	49.3	45.0	50.5
11	KSCH-333	59.0	57.0	50.3	55.4	50.0	53.3	52.0	51.8	47.0	53.7	52.0	49.3	46.3	49.7	57.7	49.0	56.0	56.0	52.3	54.2	48.3	38.0	49.3	52.0	46.9	51.4
12	QMHSC-1182	60.3	55.3	47.7	54.4	46.7	53.3	46.3	48.8	49.0	50.3	49.3	47.0	45.7	48.3	55.7	44.3	53.0	61.0	51.7	53.1	44.0	41.0	49.3	49.7	46.0	50.0
13	SWC 001 (Zone IV)	62.3	55.7	51.3	56.4	53.7	49.3	50.7	51.2	50.7	54.3	52.0	49.0	49.7	51.1	59.0	52.0	56.0	63.0	52.0	56.4	49.0	40.0	51.0	50.3	47.6	52.6
CHECKS																											
14	Madhuri	60.0	58.7	49.7	56.1	55.3	52.3	49.3	52.3	46.7	51.0	57.0	47.3	49.7	50.3	56.3	47.7	55.0	58.0	51.0	53.6	47.7	39.0	47.3	49.7	45.9	51.4
15	WOSC	61.0	59.0	49.3	56.4	51.0	51.3	54.7	52.3	47.0	53.7	52.3	48.0	48.5	49.9	56.0	49.0	54.0	64.0	50.7	54.7	46.0	45.3	49.0	51.0	47.8	52.0
Loc. Mean		61.0	58.0	50.3	56.4	50.2	52.1	51.8	51.4	48.0	53.2	52.3	48.1	48.0	49.9	57.4	49.2	55.8	61.9	51.6	55.2	48.1	40.3	49.2	50.9	47.1	51.9
C.D. (5%)		0.86	5.22	1.74	2.28	0.85	4.05	2.23	3.95	4.22	3.90	4.24	1.26	3.86	2.26	1.17	0.93	1.23	-	2.59	2.13	1.37	1.04	1.02	1.73	3.06	1.17
C.V. (%)		0.84	5.38	2.07	2.41	1.01	4.65	2.57	4.60	5.25	4.38	4.85	1.56	4.81	3.57	1.22	1.13	1.32	-	3.00	3.05	1.70	1.54	1.24	2.03	4.54	3.63
F (Prob)		0.00	0.12	0.00	0.00	0.00	0.44	0.00	0.58	0.78	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	-	0.07	0.00	0.00	0.00	0.00	0.00	0.06	0.00

Table No. 24 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING																									
		ZN 1			ZN 2				ZN 3				ZN 4				ZN 5		OV'L								
		ALMO	BAJA	KANG	Mean	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KOLH	MAND	Mean	AMBI	BANS	GODH	UDAI	Mean	Mean
1	ADVSW -1	65.0	63.7	56.7	61.8	53.0	54.3	60.0	55.8	51.3	60.0	56.3	52.3	56.0	55.2	61.0	55.0	63.0	66.0	56.0	60.2	58.3	43.3	53.0	55.3	52.5	57.0
2	ADVSW -2	65.7	63.0	57.3	62.0	53.0	52.3	56.3	53.9	49.7	58.0	58.0	54.0	55.7	55.1	62.0	55.0	63.3	66.0	55.3	60.3	51.0	44.3	53.0	57.0	51.3	56.5
3	ASKH 1	59.3	58.0	51.7	56.3	51.0	54.3	51.3	52.2	49.3	53.0	51.7	51.0	49.7	50.9	58.7	52.3	57.0	63.0	52.3	56.7	57.0	46.7	49.7	53.0	51.6	53.5
4	Bajoura Sweet Corn	60.3	56.3	52.0	56.2	50.0	55.3	51.7	52.3	51.3	54.0	53.0	51.0	51.7	52.2	59.3	52.0	57.0	60.0	53.7	56.4	51.0	44.0	51.0	52.3	49.6	53.4
5	Bisco Madhu	63.7	59.3	53.7	58.9	55.0	54.3	56.0	55.1	51.0	56.7	54.3	52.7	52.3	53.4	59.0	53.0	58.3	67.0	54.0	58.3	51.0	45.0	49.7	53.3	49.8	55.0
6	BSCH 6	65.0	64.0	54.7	61.2	48.7	54.0	55.7	52.8	48.7	60.0	58.3	54.0	52.3	54.7	62.3	54.0	61.0	67.0	53.0	59.5	50.7	42.3	53.0	52.3	49.6	55.6
7	BSCH 63	63.7	61.3	55.3	60.1	51.7	52.0	56.0	53.2	49.7	58.7	52.7	54.3	51.7	53.4	60.3	50.0	59.3	61.0	53.3	56.8	48.7	39.3	53.0	54.3	48.8	54.3
8	FSCH 18	58.7	60.3	51.7	56.9	49.7	53.7	55.0	52.8	49.7	52.7	49.3	50.0	50.0	50.3	55.3	48.0	54.3	58.0	52.7	53.7	49.0	43.3	45.3	51.3	47.3	51.9
9	FSCH 41	62.0	60.7	54.3	59.0	52.7	54.0	56.3	54.3	50.3	54.3	50.7	48.7	51.3	51.1	57.7	51.0	57.7	65.0	52.3	56.7	54.0	42.3	51.0	52.3	49.9	53.9
10	FSCH 55	58.7	62.0	52.7	57.8	54.0	52.0	55.0	53.7	49.0	53.3	52.0	51.0	51.7	51.4	55.0	48.7	55.3	65.0	51.7	55.1	48.3	41.7	48.7	52.0	47.7	52.9
11	KSCH-333	60.3	59.7	54.0	58.0	52.0	54.3	55.0	53.8	49.0	57.0	53.0	53.3	50.7	52.6	58.7	51.3	58.3	56.3	53.3	55.6	51.3	41.0	51.0	54.0	49.3	53.7
12	QMhSC-1182	60.3	58.0	51.0	56.4	49.7	55.0	48.3	51.0	51.0	53.7	50.7	51.3	49.0	51.1	55.0	46.3	53.3	62.0	53.3	54.0	47.0	44.0	50.3	51.3	48.2	52.0
13	SWC 001 (Zone IV)	63.0	58.0	54.3	58.4	55.7	51.3	53.0	53.3	52.7	57.7	53.7	54.0	54.0	54.4	61.0	54.7	59.0	64.0	53.7	58.5	53.0	43.3	52.3	52.3	50.3	55.0
CHECKS																											
14	Madhuri	59.7	61.0	52.7	57.8	57.3	53.3	52.3	54.3	48.7	54.3	58.7	52.0	54.7	53.7	57.3	49.7	56.0	59.0	53.3	55.1	50.0	42.3	49.7	51.3	48.3	53.7
15	WOSC	62.0	61.3	52.7	58.7	53.0	52.7	56.7	54.1	49.0	56.3	54.3	52.7	53.5	53.2	58.7	51.3	56.0	65.0	54.0	57.0	50.0	48.0	49.7	53.0	50.2	54.5
	Loc. Mean	61.8	60.4	53.6	58.6	52.4	53.5	54.6	53.5	50.0	56.0	53.8	52.2	52.3	52.8	58.8	51.5	57.9	63.0	53.5	56.9	51.4	43.4	50.7	53.0	49.6	54.2
	C.D. (5%)	1.14	5.11	1.56	2.14	0.85	3.29	2.02	3.92	4.22	1.53	4.28	1.00	4.29	2.06	1.04	0.78	1.66	0.93	1.95	2.20	1.49	1.14	1.29	1.46	2.94	1.16
	C.V. (%)	1.10	5.06	1.74	2.18	0.96	3.68	2.22	4.38	5.04	1.63	4.76	1.15	4.91	3.08	1.05	0.91	1.71	0.88	2.18	3.05	1.74	1.57	1.52	1.64	4.15	3.43
	F (Prob)	0.00	0.14	0.00	0.00	0.00	0.39	0.00	0.67	0.78	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.04	0.00	

Table No. 24 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)																								OV'L	
		ZN 1			ZN 2				ZN 3					ZN 4				ZN 5									
		ALMO	BAJA	KANG	Mean	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	BANS	GODH	UDAI	Mean	Mean
1	ADVSW -1	211.7	190.0	217.7	206.4	186.7	196.7	247.3	210.2	205.8	148.7	155.5	183.3	169.3	172.5	150.0	182.0	214.0	175.0	163.3	174.0	176.4	187.3	181.7	195.0	188.0	186.8
2	ADVSW -2	203.3	185.0	220.7	203.0	161.7	195.0	251.0	202.6	195.9	144.5	172.3	177.5	162.7	170.6	157.5	162.2	198.0	171.7	151.7	181.7	170.4	197.3	180.0	181.7	186.3	182.6
3	ASKH 1	186.7	184.0	207.3	192.7	166.7	200.0	213.7	193.4	202.0	142.7	158.7	166.7	160.0	166.0	168.5	177.5	197.3	160.0	148.3	179.7	171.9	201.0	174.0	170.0	181.7	178.2
4	Bajoura Sweet Corn	165.0	154.7	186.3	168.7	196.7	200.0	218.0	204.9	190.4	134.1	146.3	153.2	153.7	155.5	164.0	160.1	178.0	165.0	133.3	173.3	162.3	196.0	173.0	150.0	173.0	169.6
5	Bisco Madhu	193.3	173.3	207.0	191.2	156.7	188.3	241.3	195.4	186.9	135.9	152.5	182.7	161.0	163.8	155.0	177.1	185.0	158.3	140.0	175.3	165.1	195.0	186.0	178.3	186.4	176.5
6	BSCH 6	186.7	166.7	205.3	186.2	168.3	191.7	238.7	199.6	200.4	133.6	150.0	167.7	149.3	160.2	162.5	159.5	198.3	168.3	146.7	188.7	170.7	195.7	177.3	180.0	184.3	176.8
7	BSCH 63	173.3	162.7	186.3	174.1	163.3	203.3	216.0	194.2	200.8	135.6	133.2	153.7	150.7	154.8	152.5	156.9	174.7	165.0	131.7	176.0	159.5	186.0	174.7	170.0	176.9	168.3
8	FSCH 18	171.7	178.3	193.7	181.2	181.7	200.0	211.3	197.7	187.7	131.5	141.5	157.9	138.7	151.4	142.5	163.1	178.0	153.3	143.3	162.7	157.2	189.0	166.7	163.3	173.0	167.8
9	FSCH 41	191.7	175.0	210.0	192.2	150.0	191.7	240.0	193.9	190.8	147.9	156.7	175.8	158.0	165.8	161.0	154.6	194.7	168.3	153.3	176.0	168.0	192.0	173.3	175.0	180.1	176.8
10	FSCH 55	190.0	183.3	203.3	192.2	146.7	201.7	238.7	195.7	206.5	142.7	151.8	173.5	151.3	165.2	162.5	170.9	189.7	161.7	145.0	176.7	167.7	194.0	167.7	156.7	172.8	175.7
11	KSCH-333	171.7	150.0	211.7	177.8	156.7	183.3	226.7	188.9	186.4	137.5	161.7	157.5	154.3	159.5	187.5	175.5	173.3	163.3	126.7	171.0	166.2	195.7	174.3	165.0	178.3	171.5
12	QMHS-1182	198.3	153.3	200.7	184.1	154.7	181.7	219.7	185.3	211.9	144.7	144.3	162.9	154.3	163.6	188.5	174.8	195.0	158.3	143.3	180.7	173.4	187.0	178.3	185.0	183.4	175.9
13	SWC 001 (Zone IV)	213.3	173.3	209.7	198.8	155.0	196.7	251.7	201.1	200.0	134.2	155.2	160.7	153.3	160.7	155.0	182.8	207.0	171.7	153.3	187.3	176.2	199.0	181.0	176.7	185.6	180.8
	CHECKS																										
14	Madhuri	190.0	173.3	189.7	184.3	150.0	201.7	218.0	189.9	189.4	135.6	147.0	161.0	146.0	155.8	177.5	178.7	177.7	165.0	141.7	182.0	170.4	202.3	174.3	168.3	181.7	173.5
15	WOSC	186.7	183.3	213.3	194.4	151.7	196.7	220.7	189.7	193.8	142.2	152.3	172.2	162.5	164.6	152.5	177.0	196.3	170.0	155.0	179.0	171.6	195.7	182.0	170.0	182.6	177.6
	Loc. Mean	188.9	172.4	204.2	188.5	163.1	195.2	230.2	196.2	196.6	139.4	151.9	167.1	155.0	162.0	162.5	170.2	190.5	165.0	145.1	177.6	168.5	194.2	176.3	172.3	180.9	175.9
	C.D. (5%)	14.3	23.6	6.4	14.5	4.9	19.2	8.5	21.6	27.9	6.6	15.5	19.3	21.1	8.1	18.6	6.0	9.3	18.2	19.2	21.0	10.3	13.5	18.0	9.1	12.0	5.6
	C.V. (%)	4.51	8.17	1.87	4.59	1.80	5.87	2.20	6.59	8.50	2.83	6.11	6.90	8.15	3.92	6.83	2.10	2.91	6.61	7.90	7.07	5.32	4.14	6.10	3.15	3.96	5.06
	F (Prob)	0.00	0.03	0.00	0.00	0.00	0.47	0.00	0.67	0.76	0.00	0.01	0.03	0.41	0.00	0.00	0.00	0.00	0.57	0.04	0.68	0.01	0.35	0.72	0.00	0.16	0.00

Table No. 24 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm)																							
		ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		OV'L					
		ALMO	BAJA	KANG	Mean	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	GODH	UDAI	Mean	Mean
1	ADVSW -1	115.0	91.7	113.7	106.8	71.7	108.3	117.7	99.2	95.8	68.5	78.5	94.3	80.4	72.5	87.4	77.7	100.0	75.0	75.7	81.4	103.3	90.0	96.7	90.6
2	ADVSW -2	105.0	90.0	115.0	103.3	66.7	96.7	96.7	86.7	76.8	62.8	94.3	80.0	79.0	77.5	87.5	76.3	93.3	66.7	83.7	80.8	97.7	75.0	86.3	86.2
3	ASKH 1	88.3	71.7	108.7	89.6	76.7	100.0	88.0	88.2	67.3	59.0	89.3	82.0	76.8	72.5	86.0	78.3	78.3	71.7	79.3	77.7	75.7	75.0	75.3	81.2
4	Bajoura Sweet Corn	83.3	75.0	87.7	82.0	81.7	103.3	88.3	91.1	96.5	53.0	76.7	77.0	68.9	75.0	80.1	74.3	73.3	61.7	71.7	72.7	80.3	68.3	74.3	77.1
5	Bisco Madhu	88.3	66.7	96.3	83.8	56.7	105.0	91.7	84.4	89.6	52.9	65.8	69.3	62.7	72.5	77.0	62.3	66.7	63.3	69.0	68.5	85.0	61.7	73.3	73.5
6	BSCH 6	81.7	71.7	82.7	78.7	54.7	105.0	83.0	80.9	55.5	49.6	66.5	65.7	60.6	80.0	77.0	65.7	65.0	60.0	74.3	70.3	83.3	61.7	72.5	72.2
7	BSCH 63	76.7	65.0	81.7	74.4	53.3	100.0	68.7	74.0	65.9	52.3	60.0	72.0	61.4	75.0	74.6	48.0	66.7	63.3	85.7	68.9	83.3	75.0	79.2	70.7
8	FSCH 18	73.3	80.0	81.0	78.1	66.7	110.0	66.3	81.0	84.7	46.5	59.7	52.7	53.0	65.0	70.1	52.3	60.0	63.3	63.7	62.4	75.7	66.7	71.2	67.8
9	FSCH 41	76.7	58.3	81.3	72.1	55.0	108.3	65.3	76.2	74.4	52.3	69.2	59.3	60.3	70.0	62.2	58.7	60.0	65.0	66.0	63.6	67.0	58.3	62.7	66.6
10	FSCH 55	85.0	78.3	91.7	85.0	46.7	105.0	83.3	78.3	80.1	53.4	65.3	55.0	57.9	77.5	73.7	60.3	58.3	66.7	70.7	67.9	88.0	68.3	78.2	72.2
11	KSCH-333	66.7	49.3	82.0	66.0	66.7	96.7	67.0	76.8	86.8	45.3	64.7	60.3	56.8	90.0	80.8	45.7	55.0	63.3	74.3	68.2	60.7	58.3	59.5	66.3
12	QMHC-1182	81.7	68.3	81.0	77.0	58.3	111.7	70.0	80.0	79.0	58.2	64.2	66.7	63.0	92.5	76.1	64.7	56.7	73.3	68.7	72.0	70.7	78.3	74.5	73.0
13	SWC 001 (Zone IV) CHECKS	115.0	78.3	109.7	101.0	55.0	95.0	105.0	85.0	76.8	54.5	88.7	74.3	72.5	77.5	81.5	80.7	90.0	73.3	76.0	79.8	86.7	83.3	85.0	83.8
14	Madhuri	96.7	80.0	92.7	89.8	45.0	93.3	86.0	74.8	75.5	53.3	72.0	72.3	65.9	82.5	73.6	64.7	80.0	60.0	81.0	73.6	89.0	61.7	75.3	75.5
15	WOSC	83.3	78.3	102.7	88.1	51.7	100.0	72.0	74.6	77.4	56.4	76.5	86.5	73.1	70.0	89.8	79.7	83.3	78.3	73.7	79.1	93.7	76.7	85.2	79.6
	Loc. Mean	87.8	73.5	93.8	85.0	60.4	102.6	83.3	82.1	78.8	54.5	72.8	71.2	66.2	76.7	78.5	66.0	72.4	67.0	74.2	72.5	82.7	70.6	76.6	75.8
	C.D. (5%)	11.58	18.85	6.95	10.88	4.90	12.28	7.92	18.18	36.02	5.15	13.32	11.07	10.22	9.73	5.02	5.82	13.16	13.75	12.74	8.90	12.90	6.44	15.02	5.41
	C.V. (%)	7.89	15.33	4.43	7.65	4.85	7.16	5.69	13.24	21.32	5.65	10.95	9.30	9.24	7.58	3.82	5.28	10.86	12.27	10.26	10.66	9.33	5.46	9.14	10.57
	F (Prob)	0.00	0.01	0.00	0.00	0.00	0.09	0.00	0.28	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.05	0.00	0.00	0.00	0.01	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : BAHRAICH 21.3%

TABLE No. 25: PERFORMANCE OF POCORN EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, KARNAL, LUDHIANA, PANTNAGAR, RANCHI, VARANASI, ARBHAVI, COIMBATORE, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, AMBIKAPUR, BANSWARA, GODHARA, UDAIPUR IN TRIAL No. PC DURING KHARIF (2014)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																				
		ZN 1					ZN 2					ZN 3										
		ALMO R	BAJA R	KANG R	MEAN R	KARN R	LUDH R	PANT R	MEAN R	DHOL R	RANC R	VARA R	MEAN R	ARBH R	COIM R	HYDE R						
1	DMRHP1401	2883	3101	1810	2598	4590	2086	4550	3742	3039	2833	3281	3057	4192	3714	2456						
2	Bajoura Popcorn-2	2874	2905	2101	2627	4413	1690	2774	2959	4346	2380	439	1409	4668	3230	1835						
3	BPC 3	2639	3685	1920	2748	4712	1940	4419	3690	3413	3739	1045	2392	6028	3137	2661						
4	BPCH 27	2401	3661	2031	2698	2860	2111	4463	3145	3387	3217	2654	2935	5471	4156	2503						
5	KDPC-2	2517	3562	2052	2710	5109	2745	4530	4128	4758	3809	2279	3044	4571	2575	3328						
6	DMRHP1402	4295	3571	2030	3299	5406	3798	5428	4877	4251	3245	941	2093	5884	3372	3505						
7	VL Popcorn-2	3672	4214	2118	3335	5454	3302	5021	4593	3887	2576	1016	1796	4873	4036	2796						
8	HPC1	3915	3990	2354	3420	4055	4005	5532	4531	3893	3786	1738	2762	6274	3306	3024						
9	VL Popcorn	3913	3413	2297	3208	3582	3018	4917	3839	4395	2802	1816	2309	4642	3964	2511						
	Location Mean	3234	3567	2079	2960	4465	2744	4626	3945	3930	3154	1690	2422	5178	3499	2735						
	C.D. (5%)	381	640	207	409	200	921	690	604	1743	602	585	594	771	427	775						
	C.V. (%)	6.76	10.31	4.22	-	2.58	19.28	8.57	-	25.48	10.96	19.91	-	8.55	7.02	16.27						
	F (Prob)	0	0.012	0.004	-	0	0	0	-	0.45	0	0	-	0	0	0.005						
	Plot Size	7.2	7.2	7.2	-	12	9.6	12	-	12	11.2	9.6	-	9.6	9.6	12						
	AGRONOMY DATA																					
	Sowing Date	1-07	5-07	20-06	-	27-06	6-07	25-06	-	14-07	5-07	1-07	-	22-07	15-07	10-07						
	Harvest Date	30-10	28-10	25-09	-	3-10	1-10	26-09	-	22-10	1-11	1-10	-	2-12	16-10	17-10						
	Irrigation Nos	-	3	-	-	5	9	1	-	2	-	2	-	8	9	3						
	Fertilizer Applied N	100	120	120	-	150	35	120	-	120	120	100	-	150	150	200						
	Fertilizer Applied P	60	60	60	-	60	12	60	-	60	60	40	-	75	75	60						
	Fertilizer Applied K	40	40	40	-	60	8	40	-	40	40	40	-	37.5	75	50						

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 25.5 %

TABLE No. 25: (CONT...)

SI No	PEDIGREE	ZN 4												ZN 5		OV'L					
		KARI	R	KOLH	R	MAND	R	MEAN	R	AMBI	R	BANS	R	GODH	R	UDAI	R	MEAN	R	MEAN	R
1	DMRHP1401	3355	7	1984	3	4269	6	3328	7	2361	5	1343	9	2720	5	2288	8	2178	9	2990	8
2	Bajoura Popcorn-2	2623	9	1969	4	5429	3	3292	8	2153	6	3047	7	2042	8	1744	9	2246	8	2684	9
3	BPC 3	3834	4	1891	5	5736	2	3881	2	3958	1	3516	2	2341	7	2389	5	3051	3	3311	3
4	BPC 27	3837	3	1239	8	3859	9	3511	6	1875	8	3163	5	1880	9	2665	3	2396	7	3002	7
5	KDPC-2	3310	8	1107	9	4211	7	3184	9	2014	7	3119	6	2787	3	2362	7	2571	5	3110	6
6	DMRHP1402	4311	1	2385	1	5962	1	4237	1	2710	3	3637	1	3215	2	3050	1	3153	1	3708	1
7	VL Popcorn-2	3777	5	1412	6	4379	4	3545	5	1875	9	3405	4	2468	6	2507	4	2564	6	3272	4
8	HPC1	3461	6	1385	7	4349	5	3633	3	2778	2	2703	8	4111	1	2762	2	3088	2	3529	2
	CHECKS																				
9	VL Popcorn	4222	2	2089	2	4160	8	3598	4	2709	4	3466	3	2777	4	2376	6	2832	4	3260	5
	Location Mean	3637		1718		4706		3579		2493		3044		2705		2460		2675		3207	
	C.D. (5%)	460		381		266		513		491		715		186		442		459		508	
	C.V. (%)	7.27		12.73		3.25		-		11.32		13.49		3.96		10.32		-		-	
	F (Prob)	0		0		0		-		0		0		0		0.001		-		-	
	Plot Size	12		12		11.2		-		9.6		9.6		9.6		14.4		-		-	
	AGRONOMY DATA																				
	Sowing Date	15-07		18-07		29-07		-		30-06		13-07		16-07		7-04		-		-	
	Harvest Date	31-10		25-11		20-12		-		-		17-10		28-10		13-10		-		-	
	Irrigation Nos	-		-		7		-		-		-		-		1		-		-	
	Fertilizer Applied N	200		120		150		-		120		150		100		90		-		-	
	Fertilizer Applied P	60		60		75		-		60		80		50		60		-		-	
	Fertilizer Applied K	50		40		40		-		40		-		-		-		-		-	

TABLE No. 25 (Cont..)

SI No	GRAIN YIELD % SUPERIORITY OVER THE VL Popcorn																						OV'L			
	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5					
PEDIGREE	ALMO	BAJA	KANG	MEAN	KARN	LUDH	PANT	MEAN	DHOL	RANC	VARA	MEAN	ARBH	COIM	HYDE	KARI	KOLH	MAND	MEAN	AMBI	BANS	GODH	UDAI	MEAN	MEAN	
1 DMRHP1401	-	-	-	-	28.2	-	-	-	-	1.1	80.7	32.4	-	-	-	-	-	-	2.6	-	-	-	-	-	-	-
2 Bajoura Popcorn-2	-	-	-	-	23.2	-	-	-	-	-	-	-	0.6	-	-	-	-	-	30.5	-	-	-	-	-	-	-
3 BPC 3	-	8	-	-	31.6	-	-	-	-	33.4	-	3.6	29.9	-	5.9	-	-	-	37.9	7.9	46.1	1.4	-	0.5	7.7	1.6
4 BPCH 27	-	7.3	-	-	-	-	-	-	-	14.8	46.1	27.1	17.9	4.8	-	-	-	-	-	-	-	-	-	12.1	-	-
5 KDPC-2	-	4.4	-	-	42.6	-	-	7.5	8.3	35.9	25.5	31.8	-	-	32.5	-	-	-	1.2	-	-	-	0.4	-	-	-
6 DMRHP1402	9.8	4.6	-	2.8	50.9	25.9	10.4	27.1	-	15.8	-	-	26.8	-	39.6	2.1	14.2	43.3	17.7	0	5	15.8	28.4	11.3	13.8	
7 VL Popcorn-2	-	23.5	-	4	52.3	9.4	2.1	19.6	-	-	-	-	5	1.8	11.4	-	-	-	5.3	-	-	-	-	5.5	-	0.4
8 HPC1	0.1	16.9	2.5	6.6	13.2	32.7	12.5	18	-	35.1	-	19.6	35.2	-	20.4	-	-	-	4.5	1	2.6	-	48	16.2	9.1	8.3
CHECKS																										
9 VL Popcorn	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%): DHOL 25.5 %

S.N	STAND AT HARVEST ('000/ha)																						OV'L			
	ZN 1					ZN 2					ZN 3					ZN 4					ZN 5					
PEDIGREE	ALMO	BAJA	KANG	Mean	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	AMBI	BANS	GODH	UDAI	Mean	Mean	
1 DMRHP1401	59.7	56.5	45.1	53.8	63.3	43.8	59.4	55.5	41.7	53.6	59.0	51.4	51.0	66.7	52.8	48.3	50.3	52.1	53.5	69.8	53.8	63.5	41.7	57.2	54.3	
2 Bajoura Popcorn-2	63.0	58.8	45.8	55.9	63.1	60.8	57.2	60.3	48.9	50.3	48.6	49.3	70.5	66.7	56.4	44.4	51.7	60.4	58.3	70.1	57.6	66.3	37.3	57.8	56.7	
3 BPC 3	58.3	62.5	46.5	55.8	62.2	42.4	59.2	54.6	38.6	58.0	58.7	51.8	68.8	66.0	52.2	56.7	53.3	59.2	59.4	76.0	57.6	58.7	37.3	57.4	56.4	
4 BPCH 27	58.3	49.5	45.8	51.2	61.4	45.5	59.2	55.3	46.4	55.4	39.9	47.2	61.1	66.7	51.1	61.1	49.2	58.6	58.0	64.2	59.4	58.0	36.6	54.5	54.1	
5 KDPC-2	52.8	58.8	48.6	53.4	63.9	39.6	58.3	53.9	35.3	57.7	55.6	49.5	46.2	66.7	56.4	39.4	49.7	57.7	52.7	65.3	60.1	47.9	36.8	52.5	52.5	
6 DMRHP1402	62.5	60.2	44.4	55.7	63.3	66.7	58.1	62.7	47.8	55.7	58.7	54.0	72.6	66.3	54.2	51.1	51.1	59.2	59.1	74.3	62.5	61.8	40.3	59.7	58.5	
7 VL Popcorn-2	60.2	60.6	45.8	55.6	64.2	63.9	57.5	61.9	48.6	50.9	60.1	53.2	68.8	66.3	60.3	44.2	51.4	59.8	58.5	65.6	59.4	67.4	39.8	58.0	57.6	
8 HPC1	65.3	60.6	47.9	57.9	61.9	46.9	57.5	55.4	43.1	53.6	57.3	51.3	68.8	66.3	53.1	43.1	49.2	58.0	56.4	72.6	58.0	70.8	36.1	59.4	56.3	
CHECKS																										
9 VL Popcorn	60.6	57.4	43.8	53.9	63.3	50.7	58.9	57.6	44.2	57.7	56.6	52.8	61.1	66.3	61.9	50.8	52.8	59.8	58.8	72.2	58.3	55.9	38.9	56.3	56.4	
Loc. Mean	60.1	58.3	46.0	54.8	63.0	51.1	58.4	57.5	43.8	54.8	54.9	51.2	63.2	66.4	55.4	48.8	51.0	58.3	57.2	70.0	58.5	61.1	38.3	57.0	55.9	
C.D. (5%)	4.64	4.72	5.04	5.19	2.20	16.43	3.02	10.24	7.86	6.29	8.08	9.44	10.48	0.80	12.65	2.12	3.52	4.11	5.69	6.63	8.44	1.92	3.28	6.20	2.90	
C.V. (%)	4.46	4.68	4.75	5.48	2.02	18.57	2.99	10.29	10.36	6.64	8.50	10.66	9.58	0.69	13.20	2.51	3.99	4.07	8.53	5.47	8.33	1.81	4.94	7.45	8.10	
F (Prob)	0.00	0.00	0.50	0.34	0.21	0.02	0.69	0.51	0.02	0.13	0.00	0.86	0.00	0.57	0.63	0.00	0.19	0.02	0.18	0.01	0.70	0.00	0.02	0.36	0.00	

Table No. 25 (Continued)

GRAIN SHELLING %																										
S.No.	PEDIGREE	ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		OV'L						
		ALMO	BAJA	KANG	Mean	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND		Mean	AMBI	BANS	GODH	UDAI	Mean
1	DMRHP1401	85.8	85.4	76.0	82.4	68.4	80.5	87.2	78.7	76.0	86.3	70.8	77.7	86.3	83.0	79.7	83.5	84.6	79.4	82.7	80.2	70.1	83.3	79.6	78.3	80.3
2	Bajoura Popcorn-2	85.6	88.6	72.0	82.1	68.6	81.0	77.8	75.8	81.0	84.5	69.7	78.4	87.3	82.0	77.0	85.9	92.0	77.9	83.7	81.6	70.5	85.0	79.5	79.1	80.4
3	BPC 3	80.3	88.5	70.8	79.9	66.9	80.5	84.3	77.2	77.5	81.4	68.9	75.9	82.6	80.0	71.4	80.8	80.9	78.1	79.0	80.9	70.8	83.9	79.6	78.8	78.3
4	BPCH 27	82.5	82.4	73.4	79.4	68.4	81.5	72.4	74.1	76.0	82.4	68.2	75.5	84.8	80.4	72.0	80.7	81.9	80.3	80.0	80.5	69.3	81.5	80.8	78.0	77.9
5	KDPC-2	82.4	83.4	75.3	80.4	67.2	79.5	78.7	75.1	76.0	85.7	63.0	74.9	85.0	81.8	75.1	81.5	69.1	79.9	78.7	81.7	70.1	82.8	79.7	78.6	77.8
6	DMRHP1402	87.2	80.8	73.6	80.6	70.9	80.0	86.6	79.2	79.5	85.3	70.3	78.3	87.1	84.3	79.1	87.0	86.1	79.9	83.9	83.0	68.9	86.3	80.8	79.7	80.9
7	VL Popcorn-2	84.1	89.8	76.1	83.3	69.7	81.5	85.0	78.7	77.5	84.9	68.0	76.8	85.2	82.1	76.9	84.1	83.9	83.0	82.5	77.1	70.3	83.0	80.2	77.6	80.1
8	HPC1	80.5	81.4	79.7	80.5	70.7	81.0	83.8	78.5	78.5	83.4	69.1	77.0	84.0	79.8	75.2	76.4	82.2	78.4	79.3	79.2	68.9	82.9	81.3	78.1	78.7
CHECKS																										
9	VL Popcorn	84.2	89.7	78.4	84.1	67.7	82.5	84.6	78.3	76.5	83.7	70.0	76.7	85.5	82.4	77.7	83.3	80.2	81.2	81.7	81.3	69.4	84.8	79.8	78.8	80.1
Loc. Mean		83.6	85.6	75.0	81.4	68.7	80.9	82.2	77.3	77.6	84.2	68.6	76.8	85.3	81.7	76.0	82.6	82.3	79.8	81.3	80.6	69.8	83.7	80.1	78.6	79.4
C.D. (5%)		2.06	-	1.41	5.41	0.62	1.77	2.91	5.02	4.24	1.36	1.20	3.15	1.33	1.42	3.98	3.34	0.51	0.70	3.18	2.53	2.09	1.61	0.57	1.73	1.56
C.V. (%)		1.43	-	0.82	3.84	0.53	1.27	2.05	3.75	3.16	0.93	1.01	2.37	0.90	1.01	3.02	2.34	0.36	0.50	3.35	1.82	1.73	1.11	0.41	1.51	3.06
F (Prob)		0.00	0.00	0.00	0.60	0.00	0.08	0.00	0.35	0.21	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.47	0.00	0.00	0.35	0.00	

MOISTURE % AT HARVEST																									
S.No.	PEDIGREE	ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		OV'L					
		ALMO	BAJA	KANG	Mean	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND		Mean	BANS	GODH	UDAI	Mean
1	DMRHP1401	18.8	25.8	29.7	24.7	18.5	24.6	26.7	23.3	26.0	24.4	28.2	26.2	16.3	16.4	21.5	9.0	12.3	14.2	16.1	16.4	15.0	20.9	17.4	20.9
2	Bajoura Popcorn-2	19.0	25.7	25.6	23.4	21.2	23.8	26.8	23.9	23.9	25.5	26.6	25.3	16.1	14.5	22.0	6.2	12.8	12.3	15.5	16.1	14.7	21.0	17.3	20.4
3	BPC 3	21.6	25.9	24.2	23.9	21.8	22.4	27.1	23.8	24.5	26.3	30.2	27.0	18.2	19.9	24.3	11.3	13.8	12.9	17.8	16.2	14.6	22.2	17.6	21.5
4	BPCH 27	21.4	25.7	25.5	24.2	20.5	23.7	27.5	23.9	23.2	27.2	30.5	27.0	21.8	18.9	19.2	13.3	16.2	12.5	17.7	16.6	14.4	21.3	17.4	21.5
5	KDPC-2	21.0	25.9	31.1	26.0	20.4	26.5	26.4	24.4	27.4	26.2	30.8	28.1	16.5	19.0	22.9	13.0	16.0	11.4	17.2	16.2	15.1	22.0	17.8	22.0
6	DMRHP1402	19.9	25.7	30.4	25.3	19.2	24.0	26.2	23.2	25.7	25.1	28.7	26.5	19.7	17.4	22.2	9.2	13.5	12.3	17.0	16.4	15.5	21.0	17.6	21.3
7	VL Popcorn-2	18.2	25.2	27.5	23.6	18.5	24.3	27.7	23.5	24.4	24.7	28.1	25.7	18.7	14.9	22.7	6.3	12.6	12.4	16.2	16.5	15.4	21.2	17.7	20.8
8	HPC1	21.6	26.3	30.2	26.0	22.3	23.3	27.9	24.5	28.9	24.4	28.6	27.3	14.6	18.4	23.4	12.7	14.8	12.4	16.7	16.5	13.9	21.3	17.2	21.7
CHECKS																									
9	VL Popcorn	18.7	25.8	31.7	25.4	19.5	22.1	25.9	22.5	25.2	25.9	30.2	27.1	18.0	16.3	19.6	7.2	13.2	12.4	15.9	15.7	13.8	19.6	16.3	20.8
Loc. Mean		20.0	25.8	28.4	24.7	20.2	23.9	26.9	23.7	25.4	25.5	29.1	26.7	17.7	17.3	22.0	9.8	13.9	12.5	16.7	16.3	14.7	21.1	17.4	21.2
C.D. (5%)		1.28	0.39	1.53	3.17	0.46	0.74	1.60	2.07	2.24	1.51	2.16	2.43	2.46	0.62	2.64	4.08	0.95	0.80	2.09	0.63	1.31	0.59	0.81	0.93
C.V. (%)		3.70	0.87	2.33	7.40	1.30	1.80	3.43	5.05	5.08	3.42	4.30	5.26	8.02	2.07	6.95	24.07	3.94	3.69	9.73	2.22	5.14	1.61	2.69	6.45
F (Prob)		0.00	0.00	0.00	0.54	0.00	0.00	0.20	0.59	0.00	0.01	0.01	0.41	0.00	0.00	0.01	0.01	0.00	0.00	0.32	0.14	0.13	0.00	0.05	0.01

Locations Rejected due to High C.V.(i.e.> 20%) : KARIMNAGAR 24.1%

Table No. 25 (Continued)

DAYS TO 50% POLLEN SHED																										
S.No.	PEDIGREE	ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		OV'L						
		ALMO	BAJA	KANG	Mean	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND		Mean	AMBI	BANS	GODH	UDAI	Mean
1	DMRHP1401	55.3	53.7	43.5	50.8	49.0	44.0	47.0	46.7	53.3	44.0	48.0	48.4	53.0	48.7	54.7	46.3	56.0	48.7	51.2	47.0	40.3	45.0	48.3	45.2	48.7
2	Bajoura Popcorn-2	60.7	54.0	44.0	52.9	54.0	49.0	47.3	50.1	52.3	44.0	50.0	48.8	54.3	50.3	56.3	48.7	58.0	49.3	52.8	45.0	41.0	47.0	51.7	46.2	50.4
3	BPC 3	66.3	57.0	44.5	55.9	49.3	50.7	51.3	50.4	53.7	48.3	53.7	51.9	56.0	50.3	57.7	50.7	64.0	49.3	54.7	52.0	38.0	47.0	51.7	47.2	52.2
4	BPCH 27	65.7	60.7	45.0	57.1	60.3	53.0	52.7	55.3	55.3	47.3	57.0	53.2	57.7	50.0	58.0	52.3	65.0	50.0	55.5	49.3	39.0	50.0	52.3	47.7	53.7
5	KDPC-2	61.0	56.0	46.5	54.5	50.7	46.7	48.3	48.6	53.0	44.0	50.3	49.1	53.3	48.7	55.7	47.7	62.0	48.3	52.6	43.3	38.7	45.0	50.3	44.3	50.0
6	DMRHP1402	58.0	57.7	46.5	54.1	52.3	45.0	45.7	47.7	51.7	44.3	52.0	49.3	54.0	49.0	55.0	47.0	52.0	48.3	50.9	47.0	40.0	45.0	49.0	45.3	49.4
7	VL Popcorn-2	55.0	53.0	44.5	50.8	55.7	45.7	46.3	49.2	51.3	44.0	49.3	48.2	53.7	48.3	56.7	47.0	58.0	48.7	52.1	44.0	41.7	45.0	48.3	44.8	49.3
8	HPC1	60.7	58.3	44.5	54.5	49.0	45.3	46.7	47.0	52.7	44.0	49.3	48.7	53.7	49.0	55.7	46.7	58.0	49.0	52.0	46.0	39.0	45.0	49.7	44.9	49.6
CHECKS																										
9	VL Popcorn	55.7	57.3	44.5	52.5	54.7	45.3	47.3	49.1	51.7	44.3	49.7	48.6	54.3	49.3	55.7	47.3	54.0	48.7	51.6	44.0	43.7	47.0	49.7	46.1	49.7
Loc. Mean		59.8	56.4	44.8	53.7	52.8	47.2	48.1	49.3	52.8	44.9	51.0	49.6	54.4	49.3	56.1	48.2	58.6	48.9	52.6	46.4	40.1	46.2	50.1	45.7	50.3
C.D. (5%)		1.70	2.00	1.82	4.14	0.68	2.06	2.34	3.68	2.96	2.58	3.11	2.08	1.10	1.11	1.94	1.13	-	1.90	1.90	1.01	1.13	-	1.04	2.81	1.19
C.V. (%)		1.64	2.04	1.76	4.46	0.74	2.52	2.81	4.31	3.24	3.31	3.52	2.42	1.17	1.30	2.00	1.35	-	2.24	3.10	1.26	1.63	-	1.20	4.21	3.68
F (Prob)		0.00	0.00	0.05	0.07	0.00	0.00	0.00	0.01	0.20	0.01	0.00	0.00	0.00	0.01	0.03	0.00	-	0.65	0.00	0.00	0.00	-	0.00	0.25	0.00

DAYS TO 50% SILKING																										
S.No.	PEDIGREE	ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		OV'L						
		ALMO	BAJA	KANG	Mean	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND		Mean	AMBI	BANS	GODH	UDAI	Mean
1	DMRHP1401	56.3	55.7	47.0	53.0	51.0	47.7	50.0	49.6	53.7	47.0	51.0	50.6	53.0	62.3	56.3	48.3	57.0	50.7	54.6	50.3	43.3	47.3	50.3	47.8	51.5
2	Bajoura Popcorn-2	62.3	56.0	47.5	55.3	56.0	48.7	50.3	51.7	54.7	49.3	55.7	53.2	55.0	52.3	59.0	50.3	59.0	51.0	54.4	48.7	44.0	49.0	53.3	48.8	52.7
3	BPC 3	68.3	59.0	48.0	58.4	51.3	50.7	54.3	52.1	57.0	52.7	58.7	56.1	57.7	52.3	60.0	53.0	55.0	52.3	55.1	55.0	40.0	49.0	53.7	49.4	54.1
4	BPCH 27	68.0	63.0	48.5	59.8	62.3	52.3	55.7	56.8	57.0	52.3	59.7	56.3	58.0	52.0	61.3	54.3	66.0	55.0	57.8	52.3	42.3	51.0	54.3	50.0	56.1
5	KDPC-2	63.3	58.3	50.0	57.2	52.7	48.0	51.3	50.7	54.7	48.3	55.7	52.9	53.7	51.3	57.3	49.0	63.0	50.3	54.1	47.0	41.7	47.0	52.7	47.1	52.4
6	DMRHP1402	59.0	59.7	51.0	56.6	54.3	46.3	48.7	49.8	54.0	48.3	55.0	52.4	54.0	51.3	56.7	48.3	53.0	49.3	52.1	51.0	43.3	47.0	50.7	48.0	51.6
7	VL Popcorn-2	55.7	55.0	47.5	52.7	58.7	47.3	49.3	51.8	54.7	47.0	53.0	51.6	54.3	50.3	58.0	48.7	59.0	50.3	53.4	47.3	44.7	47.7	50.7	47.6	51.5
8	HPC1	62.7	61.0	47.5	57.1	52.0	47.0	49.7	49.6	54.3	48.0	53.0	51.8	56.0	51.3	58.0	49.7	59.0	50.7	54.1	50.7	42.0	47.7	52.7	48.3	52.3
CHECKS																										
9	VL Popcorn	57.7	59.3	48.0	55.0	56.7	47.3	50.3	51.4	54.7	48.7	55.0	52.8	56.7	51.3	58.7	49.0	55.0	49.7	53.4	48.3	46.7	49.0	52.3	49.1	52.3
Loc. Mean		61.5	58.6	48.3	56.1	55.0	48.4	51.1	51.5	55.0	49.1	55.2	53.1	55.4	52.7	58.4	50.1	58.4	51.0	54.3	50.1	43.1	48.3	52.3	48.4	52.7
C.D. (5%)		1.51	1.79	2.72	4.56	0.68	1.96	2.34	3.66	1.69	2.41	1.81	1.61	2.05	12.38	2.10	1.18	9.99	2.19	2.81	1.13	1.37	0.81	1.01	2.74	1.38
C.V. (%)		1.42	1.77	2.44	4.70	0.71	2.35	2.65	4.10	1.78	2.84	1.89	1.76	2.14	13.56	2.08	1.37	9.88	2.48	4.44	1.30	1.83	0.97	1.12	3.87	4.07
F (Prob)		0.00	0.00	0.11	0.06	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.23	0.00	0.03	0.00	0.00	0.00	0.00	0.46	0.00

Table No. 25 (Continued)

		DAYS TO 75% DRY HUSK																						
S.No.	PEDIGREE	ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		OV'L				
		ALMO	BAJA	KANG	Mean	KARN	LUDH	Mean	DHOL	RANC	VARA	Mean	COIM	HYDE	KARI	KOLH	MAND	Mean	AMBI	BANS	GODH	UDAI	Mean	Mean
1	DMRHP1401	101.0	92.7	86.5	93.4	84.0	83.0	83.5	79.0	89.0	84.7	84.2	111.7	90.0	78.3	87.0	92.0	91.8	69.7	75.0	79.0	84.7	77.1	86.3
2	Bajoura Popcorn-2	100.0	97.7	88.5	95.4	88.0	83.3	85.7	77.0	89.7	86.0	84.2	87.3	89.3	81.7	89.0	90.7	87.6	75.0	74.7	80.3	83.0	78.3	86.0
3	BPC 3	105.7	92.7	88.5	95.6	84.3	84.7	84.5	82.3	90.7	88.7	87.2	91.3	91.0	83.7	95.0	92.0	90.6	79.0	75.0	80.3	85.0	79.8	87.6
4	BPCH 27	106.3	99.7	88.0	98.0	88.3	83.7	86.0	82.3	90.3	89.7	87.4	90.0	91.7	83.7	95.3	93.3	90.8	77.0	75.0	82.0	86.3	80.1	88.4
5	KDPC-2	103.0	98.7	91.0	97.6	84.7	84.7	84.7	80.0	91.0	88.0	86.3	90.0	91.3	79.0	92.7	92.0	89.0	72.7	72.3	78.3	83.3	76.7	86.6
6	DMRHP1402	100.7	98.3	91.5	96.8	86.3	83.7	85.0	77.3	89.0	87.0	84.4	89.7	91.0	78.3	83.0	92.0	86.8	76.7	74.3	78.7	84.7	78.6	86.0
7	VL Popcorn-2	95.7	93.3	87.0	92.0	85.7	81.7	83.7	77.7	90.7	84.3	84.2	89.7	90.0	78.7	85.3	91.3	87.0	73.0	76.7	78.3	82.0	77.5	84.8
8	HPC1	102.3	101.7	88.5	97.5	83.0	86.0	84.5	79.7	90.7	84.0	84.8	89.3	91.0	80.3	89.0	92.7	88.5	70.7	74.3	78.3	85.7	77.3	86.3
CHECKS																								
9	VL Popcorn	99.7	95.7	88.5	94.6	84.7	82.3	83.5	79.0	87.7	86.0	84.2	90.0	90.0	79.0	85.0	90.7	86.9	71.7	78.0	81.0	83.3	78.5	85.4
Loc. Mean		101.6	96.7	88.7	95.7	85.4	83.7	84.6	79.4	89.9	86.5	85.2	92.1	90.6	80.3	89.0	91.9	88.8	73.9	75.0	79.6	84.2	78.2	86.4
C.D. (5%)		2.43	7.65	4.00	4.12	0.68	2.46	4.23	4.04	1.75	2.18	2.29	24.21	2.04	1.83	3.31	2.26	5.13	0.78	2.65	1.59	1.35	2.74	1.82
C.V. (%)		1.38	4.57	1.96	2.49	0.46	1.70	2.17	2.94	1.13	1.46	1.55	15.18	1.30	1.32	2.15	1.42	4.48	0.61	2.04	1.15	0.93	2.40	3.11
F (Prob)		0.00	0.19	0.22	0.08	0.00	0.05	0.84	0.09	0.01	0.00	0.02	0.58	0.31	0.00	0.00	0.30	0.37	0.00	0.02	0.00	0.00	0.17	0.01

Table No. 25 (Continued)

		PLANT HEIGHT(cm)																								
S.No.	PEDIGREE	ZN 1			ZN 2			ZN 3			ZN 4			ZN 5			OV'L									
		ALMO	BAJA	KANG	Mean	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	AMBI	BANS	GODH	UDAI	Mean	Mean
1	DMRHP1401	160.0	156.7	165.5	160.7	156.7	163.3	194.7	171.6	129.2	160.4	108.3	132.6	148.0	131.5	157.7	140.0	120.0	163.3	143.4	196.4	188.7	158.0	185.0	182.0	157.0
2	Bajoura Popcorn-2	151.7	148.3	175.0	158.3	150.0	170.0	179.0	166.3	128.5	155.3	101.7	128.5	159.0	135.4	149.0	138.3	116.7	169.0	144.6	189.5	189.0	172.7	160.0	177.8	154.6
3	BPC 3	161.7	166.7	192.5	173.6	153.3	168.3	203.7	175.1	128.5	172.2	120.0	140.2	169.0	171.7	167.3	151.7	131.7	174.0	160.9	200.5	195.3	166.7	155.0	179.4	165.8
4	BPCH 27	166.7	155.0	197.0	172.9	131.7	181.7	203.0	172.1	177.2	169.7	111.7	152.9	174.5	162.7	166.0	135.0	141.7	172.0	158.6	221.7	180.3	158.0	176.7	184.2	167.5
5	KDPC-2	155.0	166.7	187.0	169.6	180.0	176.7	210.0	188.9	139.2	181.6	108.3	143.0	149.0	148.9	144.0	130.0	128.3	167.7	144.6	204.8	187.3	160.7	150.0	175.7	161.8
6	DMRHP1402	168.3	165.0	170.0	167.8	160.0	181.7	212.3	184.7	141.7	168.1	111.7	140.5	155.5	156.9	173.0	151.7	131.7	166.3	155.9	207.9	191.7	160.0	155.0	178.7	164.7
7	VL Popcorn-2	168.3	156.3	185.0	169.9	141.7	168.3	202.3	170.8	133.0	175.4	106.7	138.4	149.5	147.8	154.3	140.0	133.3	169.0	149.0	205.0	190.3	171.0	181.7	187.0	162.1
8	HPC1	153.3	145.0	182.5	160.3	138.3	148.3	187.0	157.9	121.7	161.9	106.7	130.1	149.0	155.7	155.0	123.3	126.7	160.3	145.0	191.0	194.3	155.7	183.3	181.1	154.7
CHECKS																										
9	VL Popcorn	168.3	150.0	171.0	163.1	148.3	180.0	199.3	175.9	131.0	160.7	106.7	132.8	152.0	158.1	160.3	133.3	130.0	167.7	150.2	196.4	191.7	159.3	183.3	182.7	160.4
Loc. Mean		161.5	156.6	180.6	166.2	151.1	170.9	199.0	173.7	136.6	167.3	109.1	137.7	156.2	152.1	158.5	138.1	128.9	167.7	150.2	201.5	189.9	162.4	170.0	180.9	160.9
C.D. (5%)		8.51	19.26	18.50	13.99	5.20	19.42	8.12	16.16	38.97	7.64	16.90	16.79	10.47	23.96	14.01	21.48	14.74	9.29	7.94	19.04	10.34	19.74	8.83	15.07	5.79
C.V. (%)		3.05	7.10	4.44	4.86	1.99	6.57	2.36	5.38	16.48	2.64	8.95	7.05	3.87	9.10	5.11	8.98	6.61	3.20	4.53	5.46	3.15	7.02	3.00	5.71	5.61
F (Prob)		0.00	0.21	0.04	0.23	0.00	0.04	0.00	0.03	0.21	0.00	0.60	0.14	0.00	0.05	0.01	0.18	0.08	0.16	0.00	0.06	0.19	0.56	0.00	0.88	0.00

		EAR HEIGHT(cm)																								
S.No.	PEDIGREE	ZN 1			ZN 2			ZN 3			ZN 4			ZN 5			OV'L									
		ALMO	BAJA	KANG	Mean	KARN	LUDH	PANT	Mean	DHOL	RANC	VARA	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	AMBI	BANS	GODH	UDAI	Mean	Mean
1	DMRHP1401	68.3	81.0	83.0	77.4	76.7	81.7	71.0	76.4	62.5	68.3	58.3	63.1	72.5	85.1	53.0	63.3	51.7	73.7	66.6	77.7	87.0	75.7	95.0	83.8	72.9
2	Bajoura Popcorn-2	80.0	73.3	90.0	81.1	60.0	88.7	65.0	71.2	59.5	75.7	60.0	65.1	81.5	80.6	52.0	63.3	46.7	77.0	66.8	78.7	84.0	88.3	83.3	83.6	73.0
3	BPC 3	85.0	90.0	98.0	91.0	63.3	85.0	81.0	76.4	65.8	78.8	73.3	72.7	90.0	97.5	68.0	81.7	63.3	81.3	80.3	85.0	90.0	88.0	75.0	84.5	81.1
4	BPCH 27	86.7	85.0	101.0	90.9	71.7	98.3	79.3	83.1	73.2	70.4	76.7	73.4	84.5	101.1	69.7	75.0	68.3	81.7	80.1	92.9	80.7	78.3	80.0	83.0	81.8
5	KDPC-2	81.7	73.3	95.5	83.5	100.0	86.7	88.3	91.7	69.2	78.1	68.3	71.9	72.0	89.1	53.0	65.0	63.3	68.3	68.5	84.7	85.3	79.0	66.7	78.9	77.2
6	DMRHP1402	83.3	81.7	89.0	84.7	80.0	93.3	77.0	83.4	74.2	66.8	61.7	67.5	79.0	74.9	66.7	88.3	68.3	74.3	75.3	81.9	90.3	76.3	83.3	83.0	78.4
7	VL Popcorn-2	83.3	73.3	91.5	82.7	71.7	88.3	71.0	77.0	64.8	76.7	60.0	67.2	72.5	89.9	58.7	71.7	60.0	75.0	71.3	84.5	90.3	78.3	80.0	83.3	75.9
8	HPC1	80.0	76.7	87.5	81.4	68.3	81.7	66.7	72.2	67.8	75.1	63.3	68.7	80.5	87.8	57.3	60.0	63.3	78.3	71.2	77.7	90.3	80.7	73.3	80.5	74.5
CHECKS																										
9	VL Popcorn	85.0	75.0	90.5	83.5	78.3	93.3	77.0	82.9	73.3	69.1	65.0	69.1	79.5	89.0	65.3	61.7	63.3	73.3	72.0	78.3	90.7	78.0	85.0	83.0	77.4
Loc. Mean		81.5	78.8	91.8	84.0	74.4	88.6	75.1	79.4	67.8	73.2	65.2	68.7	79.1	88.3	60.4	70.0	60.9	75.9	72.4	82.4	87.6	80.3	80.2	82.6	76.9
C.D. (5%)		8.63	14.96	14.54	7.44	5.20	21.66	6.99	12.08	11.46	7.77	11.66	8.79	8.31	7.03	11.41	13.34	17.74	12.19	6.57	14.71	10.25	12.65	7.68	8.94	3.87
C.V. (%)		6.12	10.97	6.87	5.11	4.04	14.13	5.38	8.80	9.76	6.13	10.33	7.39	6.07	4.60	10.92	11.01	16.83	9.28	7.77	10.32	6.76	9.10	5.53	7.42	7.85
F (Prob)		0.01	0.26	0.28	0.02	0.00	0.76	0.00	0.05	0.15	0.03	0.04	0.27	0.00	0.00	0.02	0.00	0.23	0.43	0.00	0.45	0.40	0.34	0.00	0.95	0.00

Table No. 26: PERFORMANCE OF BABY CORN EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, KARNAL, LUDHIANA, PANTNAGAR, BAHAICH, BHUBNESHWAR, DHOLI, VARANASI, ARHAVI, COIMBATORE, KARIM NAHAR, HYDERABAD, KOLHAPUR, MANDYA, AMBIKAPUR, BANSWARA, GODHARA, UDAIPUR IN BABYCORN TRIAL No. BC DURING KHARIF (2014)

S.No. PEDIGREE	COB WEIGHT (kg/ha)																		
				ZN 1					ZN 2					ZN 3					
	ALMO R	BAJA R	KANG R	Mean R	KARN R	LUDH R	PANT R	Mean R	BAHR R	BHUB R	DHOL R	VARA R	Mean R	ARBH R					
1 ASKBH-1	1067 3	1017 7	2176 2	1420 3	1417 5	1406 4	3111 3	1978 4	1531 1	806 1	2556 2	1354 1	1562 1	854 7					
2 BVM-2	1167 2	1215 3	2068 4	1483 2	2000 1	1667 3	3500 2	2389 2	1401 3	569 4	1694 7	799 5	1116 6	1170 1					
3 CMH 11-658	- -	470 8	1644 7	1057 8	139 8	- -	- -	139 8	- -	- -	1500 8	- -	1500 2	743 8					
4 CMH 11-659	861 5	1280 2	2083 3	1408 4	1583 4	1810 2	2750 5	2048 3	1458 2	806 1	2194 3	1111 3	1392 3	1066 3					
5 NP 5004	975 4	1064 4	1466 8	1168 7	944 7	627 7	1667 7	1079 7	568 5	569 4	1917 6	278 6	833 8	1045 4					
6 NP 5040	683 6	1044 5	1798 6	1175 6	1028 6	733 6	2972 4	1578 6	521 7	438 5	3111 1	1250 2	1330 4	913 6					
7 Vivek Hybrid-27	1231 1	1532 1	2276 1	1680 1	1778 2	1882 1	6417 1	3359 1	1245 4	698 2	2000 4	1111 3	1264 5	1142 2					
CHECKS																			
8 HM4	628 7	1038 6	1867 5	1178 5	1611 3	1175 5	2222 6	1670 5	534 6	622 3	1944 5	1007 4	1027 7	941 5					
Loc. Mean	944	1082	1922	1321	1313	1329	3234	1780	1037	644	2115	987	1253	984					
C.D. (5%)	167	220	396	361	373	530	1383	1402	130	38	956	262	591	424					
C.V. (%)	9.32	11.62	11.76	15.60	16.24	20.97	22.48	44.97	4.79	3.14	25.82	13.94	32.10	24.59					
F (Prob)	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.01	0.00	0.00	0.06	0.00	0.22	0.41					

Locations Rejected due to High C.V.(i.e.> 30%) : Mean!ZN 2 45.0%: Mean!ZN 3 32.1%: Mean!ZN 4 30.2%: Mean!ZN 5 33.5%: Mean#OV'L 37.9%

Table No. 26 (Continued)

COB WEIGHT SUPERIORITY OVER THE CHECK HM4														
S.No.	PEDIGREE	ZN 1						ZN 2					ZN 3	
		ALMO	BAJA	KANG	Mean	KARN	LUDH	PANT	Mean	BAHR	BHUB	DHOL	VARA	Mean
1	ASKBH-1	69.9	-	16.5	20.6	-	19.7	40.0	18.5	186.8	29.6	31.4	34.5	52.1
2	BVM-2	85.8	17.1	10.7	26.0	24.1	41.8	57.5	43.1	162.4	-	-	-	8.7
3	CMH 11-658	-	-	-	-	-	-	-	-	-	-	-	-	46.1
4	CMH 11-659	37.2	23.3	11.6	19.6	-	54.0	23.8	22.6	173.1	29.6	12.9	10.3	35.6
5	NP 5004	55.3	2.5	-	-	-	-	-	-	6.3	-	-	-	-
6	NP 5040	8.8	0.6	-	-	-	-	33.8	-	-	-	60.0	24.1	29.5
7	Vivek Hybrid-27	96.0	47.7	21.9	42.6	10.3	60.1	188.8	101.2	133.2	12.3	2.9	10.3	23.1
CHECKS														
8	HM4	-	-	-	-	-	-	-	-	-	-	-	-	-

S.No.	PEDIGREE	ZN 4					ZN 5			OVL		
		ARBH	HYDE	KARI	KOLH	MAND	Mean	AMBI	GODH	UDAI	Mean	Mean
1	ASKBH-1	-	50.0	66.7	64.1	-	30.0	71.1	104.8	64.0	77.4	37.5
2	BVM-2	24.3	66.7	59.0	261.6	22.4	65.0	68.9	95.2	3.0	58.8	39.1
3	CMH 11-658	-	-	-	11.5	-	-	-	-	-	-	-
4	CMH 11-659	13.3	105.6	33.3	192.3	24.3	52.9	98.9	100.0	17.4	78.9	39.3
5	NP 5004	11.1	44.4	-	92.3	36.9	10.4	-	-	-	-	-
6	NP 5040	-	-	-	59.0	5.1	-	-	-	-	-	-
7	Vivek Hybrid-27	21.4	111.1	100.0	211.5	36.9	80.6	120.0	128.6	25.0	98.4	69.5
CHECKS												
8	HM4	-	-	-	-	-	-	-	-	-	-	-

Table No. 26 (Continued)

GREEN EAR YIELD (kg/ha)																											
S.No.	PEDIGREE	ZN 1												ZN 2			ZN 3										
		ALMO R	BAJA R	KANG R	Mean R	KARN R	LUDH R	PANT R	Mean R	BAHR R	BHUB R	DHOL R	VARA R	Mean R													
1	ASKBH-1	4756	2	5252	5	10355	2	6788	3	6833	5	8615	3	10167	2	8538	4	6044	1	3986	1	4528	2	7292	1	5463	1
2	BVM-2	4588	3	5778	2	10324	3	6897	2	10028	1	7722	4	8778	4	8843	3	4544	4	3021	3	2861	7	4132	6	3640	5
3	CMH 11-658	-	-	3380	8	4907	8	4144	7	667	8	-	-	-	-	667	8	-	-	-	-	2694	8	-	-	2694	7
4	CMH 11-659	3211	5	5307	4	7053	4	5190	4	9056	2	8729	2	10111	3	9299	2	5990	2	2747	5	3472	5	6076	4	4571	3
5	NP 5004	3911	4	4831	6	6412	5	5051	5	5778	7	4349	6	4528	7	4885	7	2357	7	2576	6	3222	6	1563	7	2430	8
6	NP 5040	2992	6	4164	7	5054	7	4070	8	6056	6	2872	7	6667	6	5198	6	2422	6	2083	7	4611	1	6701	2	3954	4
7	Vivek Hybrid-27	5536	1	7740	1	10586	1	7954	1	8167	3	9976	1	16250	1	11464	1	4844	3	3111	2	3889	4	6667	3	4628	2
8	HM4	2819	7	5603	3	5494	6	4639	6	7333	4	6283	5	8389	5	7335	5	2826	5	2764	4	3972	3	4618	5	3545	6
	Loc. Mean	3477		5257		7523		5592		6740		6935		9270		7029		3628		2536		3656		4631		3866	
	C.D. (5%)	510		999		1618		1991		348		2146		2921		2934		1070		399		1081		1060		1582	
	C.V. (%)	8.38		10.85		12.28		20.33		2.94		16.27		16.57		23.84		12.47		8.99		16.89		13.06		27.84	
	F (Prob)	0.00		0.00		0.00		0.01		0.00		0.00		0.00		0.00		0.00		0.00		0.01		0.00		0.01	

Locations Rejected due to High C.V.(i.e.> 30%) : KARIMNAGAR 31.4%: Mean!ZN 5 40.0%: Mean#OV'L 31.0%

S.No.	PEDIGREE	ZN 4												ZN 5		OV'L											
		ARBH R	COIM R	HYDE R	KARI R	KOLH R	MAND R	Mean R	AMBI R	BANS R	GODH R	UDAI R	Mean R	Mean R													
1	ASKBH-1	5833	4	6967	5	3333	3	10083	2	3199	4	3958	2	4658	4	13368	3	4479	5	8056	2	3701	2	7401	3	6354	3
2	BVM-2	5868	3	9299	2	2778	5	7472	3	5963	1	3601	4	5502	3	13090	4	5347	2	7083	4	3266	5	7197	4	6214	4
3	CMH 11-658	4688	7	5597	8	-	-	1944	8	1995	6	-	-	4093	7	1979	8	4201	6	-	-	-	-	3090	8	3345	8
4	CMH 11-659	6250	2	8677	3	4306	1	6583	4	4620	2	3839	3	5539	2	15729	2	7153	1	7257	3	3526	4	8416	2	6479	2
5	NP 5004	5313	6	6653	6	2806	4	2583	7	2829	5	3125	5	4145	5	7500	6	4028	8	2257	7	1435	7	3805	6	3972	6
6	NP 5040	4063	8	5944	7	1306	7	3833	6	1787	7	2619	6	3144	8	5868	7	4722	4	2951	6	1574	6	3779	7	3919	7
7	Vivek Hybrid-27	7569	1	9778	1	4222	2	11389	1	4176	3	4345	1	6018	1	17083	1	4167	7	9167	1	4632	1	8762	1	7469	1
8	HM4	5382	5	7483	4	2222	6	5694	5	1431	8	3958	2	4095	6	7708	5	4757	3	4028	5	3623	3	5029	5	4773	5
	Loc. Mean	5621		7550		2622		6198		3250		3635		4649		10291		4857		5828		3108		5935		5316	
	C.D. (5%)	2812		531		628		3406		876		334		1078		1977		800		898		323		3490		1058	
	C.V. (%)	28.56		4.02		13.68		31.38		15.39		4.83		17.90		10.97		9.41		8.10		5.47		39.99		30.99	
	F (Prob)	0.32		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.01		0.00	

Table No. 26 (Continued)

FODDER YIELD (kg/ha)																
S.No.	PEDIGREE	KANG				ZN 2				ZN 4				ZN 5		OV'L
		KARN	LUDH	PANT	Mean	BHUB	COIM	KARI	KOLH	MAND	Mean	GODH	UDAI	Mean	Mean	
1	ASKBH-1	29938	17361	28819	25833	24005	20347	22717	12833	30093	21220	21716	18542	10799	10799	21996
2	BVM-2	23534	22861	34375	26389	27875	18715	20785	9333	27778	24167	20516	15694	11111	11111	21905
3	CMH 11-658	10417	1611	-	-	1611	-	21427	1639	22685	-	15250	-	-	-	11556
4	CMH 11-659	31482	21778	47917	25972	31889	21944	21714	25972	37037	25655	27595	14028	22083	22083	28155
5	NP 5004	23457	13750	21424	25139	20104	16181	16656	8056	26852	30625	20547	7292	9653	9653	19179
6	NP 5040	30015	14694	22569	22917	20060	15347	23608	9556	24074	25089	20582	6424	12951	12951	20082
7	Vivek Hybrid-27	21605	22361	48264	22639	31088	19792	20542	14333	35648	31488	25503	23542	14398	14398	25107
8	CHECKS															
8	HM4	27006	16944	22222	23472	20880	17326	20318	11722	21759	22321	19030	9375	13009	13009	19610
	Loc. Mean	24682	16420	32227	24623	22189	18522	20971	11681	28241	25795	21342	13557	13429	13429	20949
	C.D. (5%)	5047	813	8903	5924	10828	1144	1467	2682	4116	3200	6258	10580	598	598	4246
	C.V. (%)	11.68	2.83	14.53	12.65	27.87	3.25	4.00	13.11	8.32	6.52	19.94	41.04	2.34	2.34	22.68
	F (Prob)	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : Mean!ZN 2 27.9%: GODHARA 41.0%: Mean#OV'L 22.7%

NO. OF BABYCORN ('000/ha)																			
S.No.	PEDIGREE	ALMO			ZN 2			ZN 3				ZN 4			ZN 5		OV'L		
		LUDH	PANT	Mean	BAHR	BHUB	Mean	ARBH	COIM	HYDE	KARI	KOLH	MAND	Mean	AMBI	GODH		Mean	Mean
1	ASKBH-1	175.6	63.5	74.2	68.9	100.5	125.0	112.8	151.4	148.3	56.9	217.8	125.9	69.9	128.4	66.3	149.0	107.6	117.3
2	BVM-2	237.8	70.5	88.9	79.7	106.3	104.9	105.6	143.8	173.6	58.6	191.7	171.3	69.3	134.7	68.1	147.2	107.6	125.5
3	CMH 11-658	-	-	-	-	-	-	-	100.7	138.9	-	21.7	82.9	-	86.0	15.6	-	15.6	71.9
4	CMH 11-659	156.7	74.0	97.2	85.6	110.9	105.9	108.4	166.0	165.6	58.6	164.7	169.9	74.1	133.2	75.3	156.3	115.8	121.2
5	NP 5004	160.6	59.4	90.3	74.8	90.6	101.7	96.2	150.3	142.7	61.1	80.8	102.3	65.2	100.4	55.9	67.0	61.5	94.5
6	NP 5040	108.9	60.4	74.2	67.3	76.6	102.8	89.7	133.3	138.2	51.4	97.2	77.8	64.0	93.7	53.8	67.7	60.8	85.1
7	Vivek Hybrid-27	220.6	80.9	76.1	78.5	97.9	104.5	101.2	190.6	176.4	62.2	226.1	139.8	92.0	147.9	76.4	179.5	128.0	132.5
8	CHECKS																		
8	HM4	83.3	29.5	70.6	50.0	58.3	102.1	80.2	149.3	158.0	30.0	131.7	60.2	76.5	100.9	58.0	63.9	60.9	82.4
	Loc. Mean	163.3	62.6	81.6	63.1	91.6	106.7	86.8	148.2	155.2	54.1	141.5	116.3	73.0	115.6	58.7	118.7	82.2	103.8
	C.D. (5%)	18.21	8.32	14.66	25.49	10.95	6.41	28.24	67.93	9.84	13.65	54.61	32.02	5.60	37.15	8.32	20.01	71.74	20.87
	C.V. (%)	5.86	6.99	9.44	17.08	4.57	3.16	13.77	26.18	3.62	13.26	22.04	15.73	4.03	27.41	8.10	8.87	36.90	25.77
	F (Prob)	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.07	0.00

Locations Rejected due to High C.V.(i.e.> 30%) : Mean!ZN 5 36.9%

Table No. 26 (Continued)

DAYS TO 50% SILKING																			
S.No.	PEDIGREE	ZN 1				ZN 3				ZN 4				ZN 5		OV'L			
		ALMO	BAJA	KANG	Mean	PANT	BAHR	BHUB	DHOL	Mean	COIM	HYDE	KARI	MAND	Mean		AMBI	UDAI	Mean
1	ASKBH-1	64.7	55.7	50.7	57.0	53.3	48.0	52.0	48.7	49.6	51.0	55.7	54.7	54.3	53.9	49.0	55.0	52.0	53.3
2	BVM-2	56.3	56.3	48.0	53.6	48.7	44.0	44.0	47.3	45.1	49.0	50.3	50.0	49.0	49.6	43.0	47.3	45.2	48.7
3	CMH 11-658	-	59.0	57.3	58.2	-	-	-	48.0	48.0	55.7	-	59.0	-	57.3	45.0	-	45.0	54.0
4	CMH 11-659	71.0	55.0	55.3	60.4	53.3	57.0	53.7	48.3	53.0	55.0	57.7	58.7	59.0	57.6	58.0	56.7	57.3	56.8
5	NP 5004	72.3	58.0	54.7	61.7	58.7	55.0	53.7	47.7	52.1	56.7	60.7	58.7	58.7	58.7	51.0	55.3	53.2	57.0
6	NP 5040	76.3	62.7	58.0	65.7	63.7	60.0	53.3	47.3	53.6	57.0	62.3	60.0	59.0	59.6	58.0	57.7	57.8	59.6
7	Vivek Hybrid-27	61.3	55.7	52.0	56.3	50.0	50.0	50.0	49.3	49.8	49.7	53.0	52.0	55.0	52.4	48.0	51.0	49.5	52.1
CHECKS																			
8	HM4	69.3	55.0	53.3	59.2	57.3	52.0	51.3	49.7	51.0	54.3	59.3	58.7	56.0	57.1	54.0	56.0	55.0	55.9
Loc. Mean		67.3	57.2	53.7	59.0	55.0	52.3	51.1	48.3	50.3	53.5	57.0	56.5	55.9	55.8	50.8	54.1	51.9	54.7
C.D. (5%)		1.04	1.91	3.87	6.69	1.63	3.95	2.41	3.75	5.09	0.68	1.88	1.11	0.96	1.63	1.67	0.90	4.38	2.13
C.V. (%)		0.82	1.90	4.11	6.48	1.56	2.89	2.48	4.44	5.78	0.72	1.73	1.12	0.90	1.99	1.88	0.87	3.57	4.98
F (Prob)		0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.81	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

PLANT HEIGHT(cm)																						
S.No.	PEDIGREE	ZN 1				ZN 2				ZN 3				ZN 4				ZN 5		OV'L		
		ALMO	KANG	Mean	KARN	PANT	Mean	BAHR	BHUB	DHOL	VARA	Mean	COIM	HYDE	KARI	Mean	AMBI	BANS	GODH		UDAI	Mean
1	ASKBH-1	151.7	209.3	180.5	215.3	221.3	218.3	180.0	143.3	125.2	174.7	155.8	172.2	187.3	153.3	170.9	165.7	193.0	150.0	181.7	172.6	174.9
2	BVM-2	153.3	202.7	178.0	251.7	214.7	233.2	182.6	133.1	154.2	157.7	156.9	168.4	171.7	163.3	167.8	159.4	193.7	152.7	186.7	173.1	176.4
3	CMH 11-658	-	218.3	218.3	158.3	-	158.3	-	-	125.2	-	125.2	167.3	-	121.7	144.5	173.3	171.7	-	-	172.5	162.2
4	CMH 11-659	163.3	243.0	203.2	201.7	282.7	242.2	201.1	153.3	153.3	195.3	175.8	173.7	211.0	168.3	184.3	209.8	190.7	193.0	208.3	200.5	196.6
5	NP 5004	161.7	189.3	175.5	175.0	237.7	206.3	163.3	135.2	114.3	150.0	140.7	110.5	165.7	146.7	140.9	150.7	180.3	152.3	161.3	161.2	159.6
6	NP 5040	146.7	185.0	165.8	160.0	198.3	179.2	155.0	127.8	117.7	146.0	136.6	106.6	156.0	145.0	135.9	144.6	187.3	121.0	168.3	155.3	151.0
7	Vivek Hybrid-27	165.0	197.0	181.0	248.3	224.3	236.3	175.6	137.2	144.8	154.7	153.1	165.9	192.7	138.3	165.6	161.1	192.7	161.0	169.7	171.1	175.2
CHECKS																						
8	HM4	158.3	209.3	183.8	250.0	212.3	231.2	167.0	133.9	106.7	151.7	139.8	147.4	163.0	146.7	152.3	155.8	175.0	146.0	175.0	163.0	166.5
Loc. Mean		157.1	206.8	185.8	207.5	227.3	213.1	174.9	137.7	130.2	161.4	148.0	151.5	178.2	147.9	157.8	165.1	185.5	153.7	178.7	171.1	170.3
C.D. (5%)		12.54	10.92	39.38	8.14	13.41	75.73	23.59	7.49	14.95	20.45	16.33	4.36	16.16	30.56	30.00	15.45	7.65	26.66	10.52	16.87	11.77
C.V. (%)		4.19	3.02	8.96	2.24	3.10	15.03	5.16	2.86	6.56	6.66	7.51	1.65	4.77	11.80	10.86	5.35	2.36	9.12	3.10	6.70	9.53
F (Prob)		0.04	0.00	0.18	0.00	0.00	0.24	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.04	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 27

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BAJAURA, BARAPANI, KANGRA, SRINAGAR, UDHAMPUR IN ZONAL TRIAL No. ZT102 DURING KHARIF (2014)

SI	GRAIN YIELD (kg/ha) AT 15% MOISTURE												GRAIN YIELD % SUPERIORITY OVER												
	No	PEDIGREE	ZN 1										LOCAL CHECK					BIO 9637							
			BAJA	R	BARA	R	KANG	R	SRIN	R	UDHA	R	MEAN	R	BAJA	BARA	KANG	SRIN	UDHA	MEAN	BAJA	BARA	KANG	SRIN	UDHA
1	DMRM1402	9251	13	2904	25	6040	5	4923	8	5833	29	6512	9	-	-	82	-	-	-	2	-	-	-	-	-
2	KMH12-12	8160	21	3309	20	4539	10	5532	3	6254	25	6121	18	-	-	37	-	-	-	-	-	-	11	-	-
3	KMH12-18	6867	29	3872	16	4218	12	5008	6	6408	21	5625	28	-	2	27	-	-	-	-	-	-	1	-	-
4	LMH 714	7070	27	4197	9	6620	3	5423	4	6096	28	6302	14	-	11	99	-	-	-	-	5	-	9	-	-
5	LMH 814	8263	19	3198	22	3922	22	4779	14	6110	27	5769	25	-	-	18	-	-	-	-	-	-	-	-	-
6	LMH 914	7875	24	6038	1	3944	21	4632	20	6184	26	5659	27	-	60	19	-	-	-	-	51	-	-	-	-
7	KMH12-17	8781	17	2865	26	4173	14	4471	24	6808	11	6058	21	-	-	26	-	0	-	-	-	-	-	5	-
8	LMH 1014	8908	16	4388	8	5220	8	4414	27	6575	18	6279	15	-	16	57	-	-	-	-	10	-	-	1	-
9	LMH 1114	9412	8	3000	24	4258	11	4783	12	7024	6	6369	10	-	-	28	-	4	-	3	-	-	-	8	-
10	LMH 1214	10252	4	5402	5	5827	6	4649	17	6534	19	6816	4	-	43	75	-	-	3	13	35	-	-	1	-
11	KMH12-25	9385	10	3316	19	3860	24	4663	16	6906	10	6204	17	-	-	16	-	2	-	3	-	-	-	7	-
12	LMH1314	8099	22	5175	6	7179	1	4597	22	8036	1	6978	1	-	37	116	-	19	6	-	29	2	-	24	1
13	LMH1414	8379	18	2822	27	4062	17	4427	25	6744	15	5903	22	-	-	22	-	-	-	-	-	-	-	4	-
14	LQPMH514	7567	26	2103	29	4143	15	4425	26	6921	8	5764	26	-	-	25	-	2	-	-	-	-	-	7	-
15	LMH 1514	9402	9	5507	3	3769	27	4278	29	6803	12	6063	20	-	46	13	-	0	-	3	38	-	-	5	-
16	LMH 1614	7031	28	5463	4	3795	26	4389	28	6351	24	5391	29	-	44	14	-	-	-	-	37	-	-	-	-
17	LMH 1714	7879	23	5930	2	3901	23	5967	1	6581	17	6082	19	-	57	17	6	-	-	-	48	-	20	1	-
18	LMH 1814	9345	11	4168	10	4074	16	4615	21	7234	3	6317	13	-	10	23	-	7	-	3	4	-	-	12	-
19	LMH 1914	9316	12	4108	11	4185	13	4646	19	7126	5	6319	12	-	9	26	-	5	-	2	3	-	-	10	-
20	LMH 2014	9900	5	3045	23	6256	4	4780	13	6608	16	6886	3	-	-	88	-	-	5	9	-	-	-	2	-
21	LMH 2114	10678	2	3231	21	4706	9	4784	11	6927	7	6774	5	0	-	42	-	2	3	17	-	-	-	7	-
22	LQPMH 614	10935	1	2460	28	3851	25	4486	23	6921	9	6548	8	3	-	16	-	2	-	20	-	-	-	7	-
23	LMH 2214	8947	15	4662	7	5609	7	4860	9	6782	13	6549	7	-	23	69	-	0	-	-	17	-	-	5	-
24	UDMH119	7760	25	3936	14	3989	18	4688	15	7131	4	5892	23	-	4	20	-	5	-	-	-	-	-	10	-
25	UDMH120	8208	20	3329	18	3967	20	5017	5	6358	23	5887	24	-	-	19	-	-	-	-	-	-	1	-	-

Table No. 27 (Cont..)

SI No	PEDIGREE	COB YIELD % SUPERIORITY OVER						COB YIELD % SUPERIORITY OVER					
		HQPM-1			HQPM-1			VIVEK QPM-9			VIVEK QPM-9		
		BAJA	BARA	KANG	SRIN	UDHA	MEAN	BAJA	BARA	KANG	SRIN	UDHA	MEAN
1	DMRM1402	-	-	52	6	-	5	-	-	70	3	-	3
2	KMH12-12	-	-	14	19	-	-	-	-	28	15	-	-
3	KMH12-18	-	-	6	8	1	-	-	-	19	4	-	-
4	LMH 714	-	3	66	17	-	1	-	8	86	13	-	-
5	LMH 814	-	-	-	3	-	-	-	-	10	-	-	-
6	LMH 914	-	49	-	-	-	-	-	55	11	-	-	-
7	KMH12-17	-	-	5	-	7	-	-	-	18	-	-	-
8	LMH 1014	-	8	31	-	3	1	-	12	47	-	-	-
9	LMH 1114	-	-	7	3	10	2	-	-	20	-	-	1
10	LMH 1214	4	33	46	0	3	10	8	38	64	-	-	8
11	KMH12-25	-	-	-	0	9	-	-	-	9	-	-	-
12	LMH1314	-	28	80	-	26	12	-	33	102	-	7	10
13	LMH1414	-	-	2	-	6	-	-	-	14	-	-	-
14	LQPMH514	-	-	4	-	9	-	-	-	17	-	-	-
15	LMH 1514	-	36	-	-	7	-	-	41	6	-	-	-
16	LMH 1614	-	35	-	-	-	-	-	40	7	-	-	-
17	LMH 1714	-	46	-	28	3	-	-	52	10	24	-	-
18	LMH 1814	-	3	2	-	14	2	-	7	15	-	-	-
19	LMH 1914	-	1	5	-	12	2	-	5	18	-	-	-
20	LMH 2014	0	-	57	3	4	11	5	-	76	-	-	9
21	LMH 2114	8	-	18	3	9	9	13	-	33	-	-	7
22	LQPMH 614	11	-	-	-	9	5	16	-	8	-	-	3
23	LMH 2214	-	15	41	5	7	5	-	20	58	1	-	3
24	UDMH119	-	-	0	1	12	-	-	1	12	-	-	-
25	UDMH120	-	-	-	8	-	-	-	-	12	4	-	-
CHECKS													
26	LOCAL CHECK	8	-	-	21	7	6	12	-	-	17	-	4
27	BIO 9637	-	-	76	7	2	11	-	2	98	4	-	9
28	HQPM-1	-	-	-	-	-	-	4	4	12	-	-	-
29	VIVEK QPM-9	-	-	-	3	19	2	-	-	-	-	-	-

Table No. 27 (Cont..)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)						GRAIN SHELLING %						MOISTURE % AT HARVEST						DAYS TO 50% POLLEN SHED				
		BAJA	BARA	KANG	SRIN	UDHA	Mean	BAJA	BARA	KANG	SRIN	UDHA	Mean	BAJA	BARA	KANG	SRIN	UDHA	Mean	BAJA	KANG	SRIN	UDHA	Mean
1	DMRM1402	67.8	68.5	63.9	81.3	69.4	70.2	80.8	78.3	77.6	78.8	74.2	77.9	26.0	26.3	27.1	32.5	26.0	27.6	66.3	52.0	103.3	57.3	69.7
2	KMH12-12	57.8	58.3	58.3	82.6	68.1	65.0	81.3	81.4	77.6	78.3	79.0	79.5	26.4	25.0	26.3	31.0	25.3	26.8	63.0	49.5	90.7	57.0	65.0
3	KMH12-18	46.7	56.5	55.6	81.3	70.1	62.0	-	71.7	78.5	79.0	79.3	77.1	25.4	24.7	24.9	31.0	25.0	26.2	63.3	50.5	89.7	56.7	65.0
4	LMH 714	54.4	50.9	66.7	81.9	68.1	64.4	83.0	74.7	79.2	78.3	78.3	78.7	25.5	26.0	26.5	31.0	25.0	26.8	62.0	52.0	98.0	56.0	67.0
5	LMH 814	60.0	53.7	56.9	82.6	67.4	64.1	78.0	77.6	79.6	78.8	77.7	78.3	25.7	25.0	26.3	33.0	26.5	27.3	63.0	52.5	103.7	55.7	68.7
6	LMH 914	58.9	42.6	62.5	83.3	66.0	62.7	83.5	81.2	80.1	78.3	82.0	81.0	26.5	26.7	27.1	32.5	26.3	27.8	62.0	52.0	96.7	55.0	66.4
7	KMH12-17	63.3	58.3	59.7	82.6	70.1	66.8	81.6	75.1	78.5	78.3	81.9	79.1	26.1	25.0	23.8	32.0	24.0	26.2	62.7	48.5	90.3	52.0	63.4
8	LMH 1014	60.0	60.2	56.9	80.6	68.8	65.3	87.4	81.5	79.2	78.0	83.2	81.9	25.9	25.0	26.8	32.0	25.0	26.9	60.3	52.0	100.7	55.7	67.2
9	LMH 1114	71.1	63.0	56.9	81.9	70.8	68.8	81.7	82.2	81.2	78.0	85.7	81.8	26.0	24.3	26.3	32.0	24.0	26.5	61.0	52.0	101.7	53.3	67.0
10	LMH 1214	60.0	64.8	56.9	81.9	70.8	66.9	87.9	79.9	82.5	78.5	77.4	81.2	26.4	26.7	25.8	31.5	24.5	27.0	62.0	53.0	102.7	57.0	68.7
11	KMH12-25	52.2	60.2	55.6	83.3	68.8	64.0	-	73.6	75.1	78.5	78.9	76.5	25.4	25.7	24.9	32.0	24.0	26.4	63.3	50.5	92.3	55.0	65.3
12	LMH1314	72.2	62.0	58.3	82.6	66.0	68.2	81.2	83.8	83.4	79.0	85.2	82.5	25.9	25.3	22.8	32.0	14.5	24.1	64.0	52.0	98.7	53.7	67.1
13	LMH1414	65.6	59.3	55.6	81.9	66.0	65.7	83.1	81.4	81.7	79.0	81.1	81.3	24.0	26.3	26.7	31.5	24.0	26.5	60.7	50.0	101.7	55.0	66.8
14	LQPMH514	58.9	60.2	56.9	81.9	70.1	65.6	84.2	79.8	81.2	78.0	87.5	82.1	25.4	26.0	24.4	30.5	24.5	26.2	57.7	45.5	88.3	52.0	60.9
15	LMH 1514	66.7	60.2	59.7	81.9	66.0	66.9	88.4	77.4	77.9	78.0	78.8	80.1	25.2	24.7	26.8	32.5	25.0	26.8	64.0	49.5	93.7	53.3	65.1
16	LMH 1614	64.4	68.5	65.3	81.9	69.4	69.9	85.4	81.3	75.4	78.8	76.3	79.4	23.9	24.7	27.8	34.0	24.5	27.0	59.7	50.5	99.0	54.7	66.0
17	LMH 1714	70.0	56.5	58.3	82.6	68.1	67.1	82.1	82.6	72.9	78.0	76.7	78.5	23.7	24.7	27.2	29.0	25.0	25.9	55.7	52.5	101.7	56.3	66.5
18	LMH 1814	71.1	65.7	63.9	81.3	68.8	70.1	78.4	77.8	78.7	79.0	83.3	79.4	25.8	25.3	25.9	32.5	23.5	26.6	61.7	52.5	102.0	56.0	68.0
19	LMH 1914	62.2	55.6	58.3	81.9	70.1	65.6	78.7	81.1	79.0	78.8	79.2	79.3	25.9	26.3	26.8	31.5	24.0	26.9	64.0	52.5	97.3	57.0	67.7
20	LMH 2014	67.8	62.0	56.9	82.6	72.9	68.5	81.6	76.5	77.9	78.8	78.1	78.6	26.1	25.7	27.2	30.5	25.0	26.9	65.0	53.0	97.7	57.3	68.3
21	LMH 2114	63.3	58.3	69.4	81.9	69.4	68.5	84.4	77.9	78.0	78.0	81.3	79.9	26.5	24.3	28.6	32.0	25.5	27.4	65.0	50.0	102.3	57.0	68.6
22	LQPMH 614	66.7	61.1	55.6	81.9	70.1	67.1	86.5	81.7	78.1	78.8	78.4	80.7	25.6	25.3	26.6	28.0	25.5	26.2	65.0	46.5	88.7	51.7	63.0
23	LMH 2214	62.2	57.4	61.1	81.9	67.4	66.0	82.0	81.6	75.7	78.3	79.3	79.4	25.9	25.0	27.2	30.5	24.5	26.6	65.0	53.0	98.7	56.7	68.3
24	UDMH119	63.3	56.5	62.5	82.6	70.1	67.0	82.6	81.6	77.3	78.0	79.7	79.8	26.5	24.7	27.6	31.5	25.0	27.0	61.0	53.0	98.7	57.3	67.5
25	UDMH120	67.8	61.1	59.7	82.6	68.8	68.0	82.3	78.3	77.6	78.3	78.1	78.9	25.6	24.0	26.4	30.5	24.5	26.2	56.3	53.0	99.7	57.3	66.6
CHECKS																								
26	LOCAL CHECK	67.8	59.3	61.1	82.6	70.8	68.3	83.9	79.2	76.3	78.0	79.5	79.4	26.3	25.3	26.1	29.0	25.5	26.4	64.7	51.5	89.7	54.7	65.1
27	BIO 9637	60.0	64.8	66.7	82.6	70.8	69.0	80.1	77.9	79.5	78.8	78.4	78.9	26.0	25.7	26.9	33.0	25.0	27.3	64.0	53.5	95.0	56.3	67.2
28	HQPM-1	61.1	54.6	58.3	83.3	66.0	64.7	80.9	83.4	79.9	78.5	79.3	80.4	26.3	25.0	23.7	32.5	25.5	26.6	64.7	52.5	96.3	55.0	67.1
29	VIVEK QPM-9	65.6	65.7	65.3	81.9	70.1	69.7	81.0	76.9	73.3	78.0	85.5	79.0	26.3	24.7	26.6	31.5	24.0	26.6	64.3	47.0	90.3	49.0	62.7
Loc. Mean		63.1	59.5	60.1	82.2	68.9	66.8	82.7	79.2	78.4	78.4	80.1	79.7	25.7	25.3	26.2	31.5	24.5	26.6	62.5	51.1	96.9	55.2	66.4
C.D. (5%)		11.04	15.79	8.54	1.79	3.48	4.74	-	1.30	3.40	0.40	3.73	3.03	1.36	2.00	2.82	1.13	3.38	1.59	4.90	2.72	3.93	2.36	3.94
C.V. (%)		10.70	16.22	6.94	1.33	3.09	5.67	-	1.00	2.12	0.31	2.85	3.04	3.23	4.83	5.25	2.19	8.44	4.77	4.79	2.60	2.48	2.61	4.22
F (Prob)		0.00	0.59	0.07	0.41	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.41	0.07	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00

Table No. 27 (Cont..)

S.No. PEDIGREE	DAYS TO 50% SILKING						DAYS TO 75% DRY HUSK						PLANT HEIGHT(cm)						EAR HEIGHT(cm)					
	BAJA	BARA	KANG	SRIN	UDHA	Mean	BAJA	BARA	KANG	SRIN	UDHA	Mean	BAJA	BARA	KANG	SRIN	UDHA	Mean	BAJA	BARA	KANG	SRIN	UDHA	Mean
1 DMRM1402	68.7	61.7	54.5	104.7	62.0	70.3	107.0	93.7	96.0	172.3	97.0	113.2	281.7	260.6	254.0	160.0	215.9	239.1	166.7	123.3	136.5	60.0	94.9	116.3
2 KMH12-12	65.3	56.0	52.5	93.0	61.7	65.7	108.7	89.3	91.5	169.0	96.3	111.0	303.3	252.7	279.0	143.3	187.5	244.6	190.0	111.7	139.0	53.3	81.9	115.2
3 KMH12-18	65.3	56.3	53.0	92.3	61.0	65.6	107.0	90.7	91.5	168.3	96.0	110.7	255.0	251.7	241.0	131.7	183.9	219.8	115.0	122.0	115.5	65.0	82.9	100.1
4 LMH 714	65.7	57.3	55.0	100.3	60.7	67.8	105.7	91.3	94.5	169.7	98.0	111.8	261.7	251.3	205.5	140.0	184.8	214.6	170.0	118.0	102.5	58.3	82.3	106.2
5 LMH 814	65.0	60.7	55.0	105.7	59.3	69.1	104.3	93.3	94.5	169.0	96.3	111.5	258.3	254.3	219.0	148.3	202.5	220.0	163.3	115.3	98.0	60.0	76.9	102.7
6 LMH 914	64.0	58.7	55.0	98.7	59.7	67.2	103.7	92.7	94.5	169.0	95.7	111.1	230.0	245.0	225.5	168.3	217.3	217.2	131.7	116.0	108.0	68.3	80.3	100.9
7 KMH12-17	66.0	53.0	51.5	92.7	57.0	64.0	104.3	88.3	90.5	167.7	95.3	109.2	281.7	248.3	189.0	121.7	295.3	210.2	156.7	112.3	98.0	55.0	76.4	99.7
8 LMH 1014	62.3	57.0	55.0	102.7	60.0	67.4	102.0	91.3	94.5	170.0	96.0	110.8	281.7	232.3	209.0	116.7	126.8	209.9	131.7	116.3	95.0	46.7	70.8	92.1
9 LMH 1114	64.0	57.7	54.5	104.0	57.3	67.5	104.0	92.7	94.5	171.3	96.3	111.8	226.7	261.7	209.0	113.3	193.5	202.7	128.3	109.0	102.0	36.7	80.3	91.3
10 LMH 1214	64.3	58.3	55.0	104.7	61.0	68.7	105.7	94.0	95.0	169.0	95.7	111.9	250.0	248.7	260.0	150.0	217.9	227.2	135.0	126.0	133.0	58.3	92.2	108.9
11 KMH12-25	65.3	56.0	53.5	95.0	59.3	65.8	106.3	91.7	94.5	166.0	96.0	110.9	246.7	242.3	248.0	136.7	216.9	218.4	141.7	120.7	111.5	60.0	94.5	105.7
12 LMH1314	66.3	54.7	54.5	100.7	57.7	66.8	107.3	90.0	94.0	168.7	95.3	111.1	220.0	254.0	224.0	151.7	186.1	212.4	125.0	110.0	127.5	71.7	81.5	103.1
13 LMH1414	62.7	57.3	52.5	103.7	59.3	67.1	104.7	91.3	92.0	174.0	95.3	111.5	235.0	251.0	264.0	151.7	197.1	225.4	118.3	111.6	150.0	61.7	75.9	103.5
14 LQPMH514	60.0	51.7	48.5	90.7	56.3	61.4	98.3	88.0	87.5	166.0	94.7	106.9	205.0	266.0	214.0	113.3	190.1	199.6	101.7	82.7	110.0	43.3	67.8	81.1
15 LMH 1514	66.0	56.7	52.5	96.0	57.7	65.8	101.7	91.3	91.5	168.0	95.7	109.6	230.0	251.3	184.5	136.7	216.2	200.6	123.3	108.0	91.0	58.3	77.9	91.7
16 LMH 1614	61.7	56.7	53.0	101.3	59.0	66.3	94.3	91.3	91.5	170.7	95.3	108.6	211.7	257.3	239.0	141.7	213.9	212.4	120.0	113.3	114.0	58.3	86.0	98.3
17 LMH 1714	57.7	60.3	54.5	103.7	60.7	67.4	93.7	94.0	94.0	171.0	95.7	109.7	220.0	281.0	229.5	190.0	224.1	230.1	95.0	138.7	109.5	76.7	105.0	105.0
18 LMH 1814	64.0	61.0	55.0	104.0	60.7	68.9	99.3	93.3	94.5	168.7	96.3	110.4	251.7	246.7	215.0	176.7	210.4	222.5	136.7	126.0	112.5	83.3	86.7	109.0
19 LMH 1914	66.0	60.7	55.0	99.3	61.3	68.5	102.7	93.7	94.5	170.3	96.7	111.6	270.0	254.7	216.5	135.0	194.3	219.0	146.7	125.7	106.0	56.7	77.2	102.4
20 LMH 2014	67.0	60.0	55.0	99.7	61.3	68.6	103.7	93.7	95.0	171.0	96.7	112.0	273.3	230.7	229.5	145.0	166.3	219.6	161.7	114.7	118.0	66.7	66.8	105.6
21 LMH 2114	67.0	60.7	53.0	104.7	61.0	69.3	105.7	93.3	95.5	171.0	96.3	112.4	240.0	265.7	244.0	151.7	162.7	225.3	136.7	127.7	129.0	68.3	71.7	106.7
22 LQPMH 614	67.0	51.0	49.5	91.3	56.0	63.0	108.0	88.0	89.5	167.0	96.0	109.7	251.7	240.0	196.5	133.3	148.6	205.4	143.3	111.7	111.5	63.3	46.8	95.3
23 LMH 2214	67.0	58.7	55.0	98.7	60.7	68.0	110.3	92.0	95.0	171.0	95.3	112.7	248.3	244.7	250.0	151.7	187.7	223.7	135.0	117.7	130.0	76.7	70.9	106.0
24 UDMH119	62.3	59.7	55.0	99.3	61.7	67.6	107.0	93.0	95.0	171.0	96.7	112.5	233.3	249.0	243.0	195.0	188.3	230.1	140.0	117.3	135.0	88.3	73.4	110.8
25 UDMH120	58.3	59.7	55.0	102.0	61.3	67.3	100.3	93.3	95.0	170.0	96.3	111.0	213.3	256.0	250.0	178.3	189.2	224.4	115.0	117.7	136.5	93.3	73.6	107.2
CHECKS																								
26 LOCAL CHECK	66.7	58.3	53.5	91.7	59.3	65.9	105.3	92.0	92.0	167.0	96.0	110.5	221.7	257.0	234.5	183.3	182.3	224.1	145.0	135.7	113.5	91.7	72.2	111.6
27 BIO 9637	66.3	57.7	55.5	97.0	60.7	67.4	107.3	91.7	96.0	171.0	96.7	112.5	306.7	246.0	276.5	176.7	196.4	251.5	171.7	107.0	153.0	90.0	74.7	119.3
28 HQPM-1	67.3	60.0	55.0	98.3	59.3	68.0	106.0	93.3	95.0	168.7	95.3	111.7	260.0	262.7	191.0	115.0	184.3	207.2	165.0	98.7	84.0	41.7	69.7	91.8
29 VIVEK QPM-9	66.3	50.0	50.5	92.7	53.7	62.6	104.7	86.7	90.0	166.7	94.7	108.5	250.0	268.0	217.5	151.7	200.5	221.8	138.3	90.0	104.5	71.7	72.7	95.4
Loc. Mean	64.7	57.5	53.7	98.9	59.5	66.9	104.1	91.7	93.4	169.4	96.0	110.9	248.9	252.8	229.6	148.6	195.9	220.0	139.6	115.3	116.4	64.9	78.1	102.9
C.D. (5%)	5.00	1.81	2.48	4.23	2.69	3.17	5.71	1.60	0.81	1.89	1.34	2.67	51.47	43.13	19.22	3.76	68.87	30.14	27.79	17.26	12.38	4.31	13.99	18.84
C.V. (%)	4.72	1.93	2.25	2.61	2.76	3.78	3.36	1.06	0.43	0.68	0.85	1.92	12.64	10.43	4.09	1.55	21.49	9.75	12.17	9.15	5.19	4.06	10.96	14.61
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	0.01	0.98	0.00	0.00	0.13	0.19	0.00	0.00	0.00	0.00	0.00	0.05

BR308

TABLE No. 28 PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, BARAPANI, KANGRA, POONCH, SRINAGAR, UDHAMPUR IN ZONAL TRIAL No. ZT103 DURING KHARIF (2014)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												GRAIN YIELD % SUPERIORITY OVER											
		ALMO	R	BAJA	R	BARA	R	KANG	R	POON	R	SRIN	R	UDHA	R	MEAN	R	ALMO	BAJA	BARA	KANG	POON	SRIN	UDHA	MEAN
1	FH3717	6541	5	9355	13	3294	5	3919	9	5545	24	5711	5	6449	17	6253	12	10	4	60	39	20	17	-	11
2	FH3721	5911	15	10970	3	3979	2	2647	25	7161	3	5710	6	6837	10	6539	7	-	22	94	-	56	17	4	16
3	FH3723	5276	20	11231	2	1833	24	3903	10	6711	9	5488	11	7838	2	6741	2	-	25	-	38	46	12	19	19
4	FH3725	6595	4	9757	10	4371	1	3205	16	5721	22	5643	7	8016	1	6490	8	10	9	113	13	24	15	21	15
5	FH3726	5929	14	10574	5	2109	18	4606	4	7214	2	5608	8	6174	22	6684	3	-	18	3	63	57	14	-	18
6	FH3731	5332	19	9667	11	2801	10	4599	5	7063	5	5753	4	5459	27	6312	10	-	8	36	63	53	17	-	12
7	FH3732	6207	8	9301	14	3190	6	2984	19	6109	17	5287	14	6297	20	6031	16	4	4	55	6	33	8	-	7
8	FH3735	5941	13	8483	19	1958	21	3979	8	5814	21	4684	28	7327	7	6038	15	-	-	-	41	26	-	11	7
9	FH3743	5056	21	10562	6	2416	14	3014	18	5045	27	4998	21	6902	9	5929	19	-	18	18	7	10	2	5	5
10	H56	4063	28	6904	28	1408	28	2712	22	6137	14	5039	20	6139	24	5166	28	-	-	-	-	33	3	-	-
11	H57	4553	26	7465	27	2021	20	2410	27	5587	23	5099	18	6683	11	5300	27	-	-	-	-	21	4	1	-
12	H64	4196	27	8597	18	1578	25	3125	17	5860	20	4689	27	6924	8	5565	25	-	-	-	11	27	-	5	-
13	EHL 6014	5354	18	8613	17	1946	22	2575	26	7022	6	5103	17	7751	4	6070	13	-	-	-	-	53	4	17	8
14	EHL 6114	5355	17	11823	1	3061	8	3317	15	5956	19	4855	24	6562	14	6311	11	-	32	49	17	29	-	-	12
15	FH3748	5379	16	8320	20	1570	26	4883	3	5275	25	5195	16	6411	18	5911	20	-	-	-	73	15	6	-	5
16	FH3749	5981	11	10785	4	2994	9	4173	6	6267	10	4790	25	7789	3	6631	4	0	20	46	48	36	-	18	17
17	FH3750	4963	22	7613	26	2448	13	2665	24	6868	7	4992	22	6607	12	5618	23	-	-	19	-	49	2	0	-
18	FH3756	4858	23	7831	24	1444	27	2333	28	6789	8	5061	19	6520	15	5565	24	-	-	-	-	47	3	-	-
19	FH3758	6019	10	8181	21	2120	17	3770	13	7267	1	5266	15	5288	28	5965	18	1	-	3	33	58	7	-	6
20	FH3733	6670	3	8966	16	3395	4	4073	7	7091	4	5288	13	6149	23	6373	9	12	-	65	44	54	8	-	13
21	FH3759	6303	7	10144	8	3639	3	5517	1	6262	11	5513	10	5987	26	6621	5	6	13	77	95	36	13	-	17
22	FH3760	4586	25	7759	25	2130	16	2732	21	5074	26	5802	2	6303	19	5376	26	-	-	4	-	10	18	-	-
23	DMRE 1401	6776	2	7971	22	1906	23	3807	12	6129	16	5345	12	6079	25	6018	17	14	-	-	35	33	9	-	7
24	EHL 6214	4674	24	9927	9	2191	15	3815	11	6132	15	5572	9	6189	21	6052	14	-	11	7	35	33	14	-	7
25	EHL 6314	6196	9	7870	23	2481	12	2709	23	6207	13	5797	3	6465	16	5874	21	4	-	21	-	35	18	-	4
26	EHL 6414	6528	6	10397	7	3064	7	4900	2	6102	18	5903	1	7500	5	6888	1	9	16	49	73	33	20	14	22

SI	GRAIN YIELD (kg/ha) AT 15% MOISTURE													GRAIN YIELD % SUPERIORITY OVER													
	No	PEDIGREE	ALMO	R	BAJA	R	BARA	R	KANG	R	POON	R	SRIN	R	UDHA	R	MEAN	R	ALMO	BAJA	BARA	KANG	POON	SRIN	UDHA	MEAN	
CHECKS																											
27	VivekHybrid9	5970	12	8968	15	2054	19	2827	20	4604	28	4900	23	6599	13	5645	22	-	-	-	-	-	-	-	-	-	-
28	Vivek hybrid39	7672	1	9565	12	2706	11	3747	14	6238	12	4741	26	7488	6	6575	6	29	7	32	33	35	-	13	16		
Location Mean		5674		9200		2504		3534		6187		5280		6669		6091											
C.D. (5%)		762		985		1385		547		1199		167		407		678											
C.V. (%)		8.2		6.54		33.78		7.53		11.84		1.93		3.72		-											
F (Prob)		0		0		0.001		0		0.001		0		0		-											
Plot Size		3.6		3		4.8		3.6		4.8		4.8		4.8		-											
AGRONOMY DATA																											
Sowing Date		1-07		5-06		2-06		20-06		6-06		26-05		3-07		-											
Harvest Date		30-10		30-09		15-09		30-09		8-11		14-11		13-10		-											
Irrigation Nos		-		3		-		-		-		3		-		-											
Fertilizer Applied N		80		120		80		120		100		90		120		-											
Fertilizer Applied P		60		60		60		60		80		60		60		-											
Fertilizer Applied K		40		40		40		40		60		40		40		-											

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

Table No. 28 (Cont..)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)								GRAIN YIELD % SUPERIORITY OVER							
		ALMO	BAJA	BARA	KANG	POON	SRIN	UDHA	ZN 1	ALMO	BAJA	BARA	KANG	POON	SRIN	UDHA	MEAN
									Mean								
1	FH3717	65.7	70.0	43.8	50.0	41.0	82.6	70.1	60.5	-	-	22	5	-	20	-	-
2	FH3721	63.0	67.8	34.0	48.6	44.4	81.9	69.4	58.5	-	15	47	-	15	20	-	-
3	FH3723	64.8	71.1	42.4	52.8	47.9	82.6	74.3	62.3	-	17	-	4	8	16	5	3
4	FH3725	64.8	74.4	36.1	50.0	45.1	81.9	74.3	61.0	-	2	62	-	-	19	7	-
5	FH3726	65.7	72.2	38.9	48.6	42.4	82.6	68.8	59.9	-	11	-	23	16	18	-	2
6	FH3731	66.7	73.3	42.4	52.8	47.9	81.9	66.0	61.6	-	1	4	23	13	21	-	-
7	FH3732	66.7	80.0	34.0	51.4	46.5	82.6	68.1	61.3	-	-	18	-	-	12	-	-
8	FH3735	63.0	71.1	38.9	52.8	40.3	82.6	75.7	60.6	-	-	-	6	-	-	-	-
9	FH3743	63.0	72.2	36.1	50.0	41.7	83.3	68.1	59.2	-	10	-	-	-	5	-	-
10	H56	59.3	60.0	41.0	51.4	43.1	82.6	69.4	58.1	-	-	-	-	-	6	-	-
11	H57	60.2	68.9	39.6	51.4	43.1	81.9	72.9	59.7	-	-	-	-	-	8	-	-
12	H64	57.4	63.3	38.9	54.2	38.9	81.9	70.1	57.8	-	-	-	-	-	-	-	-
13	EHL 6014	62.0	60.0	33.3	50.0	44.4	81.9	72.2	57.7	-	-	-	-	13	8	3	-
14	EHL 6114	63.9	77.8	37.5	47.2	41.7	81.9	67.4	59.6	-	24	13	-	-	2	-	-
15	FH3748	63.9	72.2	45.1	55.6	36.1	82.6	66.7	60.3	-	-	-	30	-	10	-	-
16	FH3749	64.8	76.7	36.1	54.2	43.8	81.9	72.2	61.4	-	13	11	11	0	1	4	1
17	FH3750	65.7	73.3	40.3	55.6	43.1	82.6	70.8	61.6	-	-	-	-	10	5	-	-
18	FH3756	61.1	73.3	35.4	51.4	44.4	83.3	70.1	59.9	-	-	-	-	9	7	-	-
19	FH3758	63.9	64.4	40.3	54.2	41.7	81.9	66.7	59.0	-	-	-	1	17	11	-	-
20	FH3733	65.7	73.3	44.4	55.6	44.4	83.3	66.0	61.8	-	-	25	9	14	12	-	-
21	FH3759	66.7	66.7	42.4	52.8	41.0	81.9	66.7	59.7	-	6	34	47	0	16	-	1
22	FH3760	62.0	66.7	32.6	50.0	38.9	82.6	67.4	57.2	-	-	-	-	-	22	-	-
23	DMRE 1401	61.1	65.6	39.6	48.6	43.8	83.3	66.7	58.4	-	-	-	2	-	13	-	-
24	EHL 6214	66.7	70.0	42.4	50.0	38.2	82.6	68.8	59.8	-	4	-	2	-	18	-	-
25	EHL 6314	63.0	73.3	31.9	48.6	41.0	82.6	66.7	58.2	-	-	-	-	-	22	-	-
26	EHL 6414	63.9	70.0	43.1	51.4	40.3	81.9	75.0	60.8	-	9	13	31	-	25	0	5
CHECKS																	
27	VivekHybrid9	64.8	65.6	34.7	52.8	45.1	81.9	70.1	59.3	-	-	-	-	-	3	-	-
28	Vivek hybrid39	64.8	71.1	34.0	54.2	36.1	81.9	68.8	58.7	-	-	-	-	-	-	-	-
Loc. Mean		63.7	70.2	38.5	51.6	42.4	82.4	69.6	59.8								
C.D. (5%)		5.87	11.32	8.68	5.18	6.49	2.11	5.31	3.18								
C.V. (%)		5.63	9.85	13.76	4.89	9.35	1.56	4.66	5.04								
F (Prob)		0.20	0.11	0.07	0.08	0.03	0.99	0.00	0.07								

Table No. 28 (Cont..)

S.No.	PEDIGREE	GRAIN SHELLING %								MOISTURE % AT HARVEST								DAYS TO 50% POLLEN SHED							
		ALMO	BAJA	BARA	KANG	POON	SRIN	UDHA	Mean	ALMO	BAJA	BARA	KANG	POON	SRIN	UDHA	Mean	ALMO	BAJA	KANG	POON	SRIN	UDHA	Mean	
1	FH3717	81.5	82.8	81.1	75.1	81.4	78.3	80.6	80.1	20.8	25.4	23.7	24.0	19.8	28.5	25.5	23.9	62.3	58.3	48.0	60.7	84.0	53.7	61.2	
2	FH3721	82.1	81.6	80.8	71.4	80.4	78.3	78.0	78.9	22.3	25.4	29.7	24.8	19.9	28.5	26.0	25.2	63.3	61.7	48.0	61.0	85.3	53.0	62.1	
3	FH3723	79.4	81.5	77.8	70.9	80.7	79.3	83.6	79.0	20.8	25.6	22.3	24.8	21.8	27.5	25.0	24.0	63.3	60.0	48.5	60.0	86.3	54.3	62.1	
4	FH3725	83.6	83.5	78.1	77.3	81.5	78.3	77.5	80.0	23.8	25.6	22.3	25.0	20.2	27.0	25.5	24.2	63.7	59.0	48.5	58.7	85.7	54.7	61.7	
5	FH3726	81.4	76.2	77.8	71.9	83.2	78.3	75.7	77.7	23.2	25.8	27.3	25.1	21.2	29.5	25.0	25.3	63.0	60.3	48.0	61.0	86.3	56.3	62.5	
6	FH3731	79.2	80.0	78.0	73.6	80.5	78.0	72.8	77.4	20.8	25.7	25.7	25.7	19.9	30.0	26.5	24.9	63.0	61.3	46.5	60.7	86.3	52.0	61.6	
7	FH3732	84.3	80.1	78.4	76.1	80.7	78.8	80.9	79.9	19.6	25.2	24.0	23.3	20.5	28.5	25.5	23.8	59.3	57.7	45.0	58.0	86.0	52.0	59.7	
8	FH3735	87.5	82.9	79.4	78.3	83.5	78.3	81.9	81.7	22.1	26.3	28.0	24.3	20.1	35.0	26.5	26.0	59.7	55.0	45.0	58.7	85.3	52.7	59.4	
9	FH3743	83.3	79.8	77.5	72.2	76.8	78.0	83.4	78.7	21.6	23.9	24.7	22.8	21.6	27.0	25.5	23.9	61.7	58.7	48.0	60.0	89.7	54.3	62.1	
10	H56	83.4	79.8	77.2	74.8	82.6	79.0	77.0	79.1	18.7	23.2	23.0	23.2	21.8	28.0	25.0	23.3	58.7	56.3	45.0	59.0	83.3	51.0	58.9	
11	H57	83.0	78.9	78.2	73.5	83.9	79.3	80.1	79.5	19.9	23.9	28.0	24.0	21.3	29.0	25.5	24.5	58.0	58.0	46.0	59.3	84.0	52.0	59.6	
12	H64	86.7	84.2	78.0	77.0	83.3	78.5	84.9	81.8	21.9	25.2	25.0	24.1	20.0	31.0	25.5	24.7	59.3	58.7	49.0	60.7	83.3	54.0	60.8	
13	EHL 6014	84.2	82.3	81.7	73.4	80.6	78.3	80.6	80.1	20.0	25.6	23.7	25.0	19.7	29.0	25.5	24.0	61.0	57.3	49.0	62.7	98.0	54.7	63.8	
14	EHL 6114	86.1	85.0	78.4	76.2	81.5	78.3	81.6	81.0	20.7	25.4	24.0	22.7	20.0	29.0	26.0	24.0	59.3	58.7	45.5	59.3	93.7	51.7	61.4	
15	FH3748	85.1	81.3	76.2	77.7	78.8	78.3	81.6	79.9	21.7	25.9	22.7	25.8	20.7	29.0	26.0	24.5	63.7	59.7	49.0	60.3	101.3	53.3	64.6	
16	FH3749	85.3	82.3	78.2	77.7	81.2	78.0	84.2	81.0	21.6	25.6	24.0	25.4	20.2	31.0	25.5	24.7	61.0	54.7	48.0	60.0	100.0	52.7	62.7	
17	FH3750	78.8	74.4	77.7	72.0	81.7	79.0	78.1	77.4	20.8	25.4	24.7	24.3	20.7	29.0	25.5	24.3	60.3	58.3	46.0	59.0	84.3	54.3	60.4	
18	FH3756	82.0	79.2	78.5	72.7	82.8	79.0	78.8	79.0	20.0	25.8	24.3	25.6	19.6	29.0	25.5	24.3	56.3	53.3	45.5	58.7	100.7	50.0	60.8	
19	FH3758	81.5	80.2	78.3	75.0	82.9	78.8	75.9	78.9	22.1	26.1	25.7	25.7	20.6	30.0	26.5	25.2	62.7	58.0	48.5	60.7	94.0	54.7	63.1	
20	FH3733	81.6	80.4	76.7	74.8	83.0	78.8	78.9	79.2	21.1	25.8	22.0	26.0	19.5	30.0	26.0	24.3	61.3	59.3	47.5	60.3	94.7	52.7	62.6	
21	FH3759	79.8	79.3	76.3	78.1	82.7	78.0	76.3	78.6	21.3	25.8	25.7	24.9	20.6	30.5	25.5	24.9	60.7	59.0	46.5	59.7	92.7	54.0	62.1	
22	FH3760	83.2	78.9	77.8	70.6	80.5	78.0	82.7	78.8	19.6	25.0	26.0	23.6	20.7	31.0	26.0	24.6	62.7	55.7	45.0	59.3	82.0	51.3	59.3	
23	DMRE 1401	82.5	82.7	78.4	75.8	80.0	78.3	80.6	79.8	18.0	24.7	23.3	23.5	20.0	30.0	25.0	23.5	60.0	56.3	45.0	60.0	82.7	50.3	59.1	
24	EHL 6214	78.2	74.6	78.3	71.8	84.3	78.0	76.6	77.4	21.6	25.1	25.0	25.7	20.9	28.0	25.0	24.5	65.3	61.7	48.0	60.3	80.0	56.0	61.9	
25	EHL 6314	84.8	79.9	79.9	75.5	81.0	78.3	81.1	80.1	18.2	23.9	25.7	26.0	20.2	28.0	25.5	23.9	59.3	55.7	46.0	59.7	81.3	49.0	58.5	
26	EHL 6414	82.1	80.8	77.6	74.2	82.5	78.0	80.0	79.3	19.9	26.0	25.7	24.2	21.2	29.0	25.0	24.4	62.7	61.7	48.5	60.3	80.7	54.7	61.4	
CHECKS																									
27	VivekHybrid9	85.1	84.0	78.6	75.0	79.3	78.3	79.1	79.9	19.4	23.4	26.7	24.1	21.3	29.0	25.0	24.1	56.0	51.7	44.0	59.0	85.7	49.7	57.7	
28	Vivek hybrid39	84.8	80.0	79.5	74.3	84.2	79.0	83.1	80.7	20.2	25.0	27.3	24.9	21.1	31.0	26.0	25.1	57.3	54.3	46.0	58.7	88.3	51.3	59.3	
Loc. Mean		82.9	80.6	78.4	74.5	81.6	78.4	79.8	79.5	20.8	25.2	25.0	24.6	20.5	29.4	25.6	24.4	60.9	57.9	46.9	59.8	88.1	52.9	61.1	
C.D. (5%)		1.23	0.00	2.54	2.31	3.44	0.28	2.40	2.01	1.89	1.08	3.47	1.85	1.44	1.65	0.80	1.21	1.25	2.56	1.53	2.54	1.52	2.96	3.30	
C.V. (%)		0.90	0.00	1.98	1.51	2.57	0.22	1.84	2.40	5.55	2.61	8.47	3.67	4.30	3.43	1.92	4.69	1.25	2.70	1.59	2.59	1.05	3.42	4.74	
F (Prob)		0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.00	0.00	0.01	0.00	0.00	0.00	0.26	0.00	0.00	0.00	

Table No. 28 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% SILKING							DAYS TO 75% DRY HUSK								
		ALMO	BAJA	BARA	KANG	POON	SRIN	UDHA	Mean	ALMO	BAJA	BARA	KANG	POON	SRIN	UDHA	Mean
1	FH3717	63.3	60.7	56.3	51.0	63.7	86.3	58.0	62.8	101.0	98.0	113.7	86.5	101.3	167.5	96.0	109.1
2	FH3721	64.0	63.7	57.3	51.5	64.3	88.0	57.7	63.8	102.0	99.0	115.0	87.0	99.7	168.0	95.3	109.4
3	FH3723	64.7	62.7	57.0	51.5	63.3	88.3	58.7	63.7	99.3	97.0	114.3	87.0	99.7	166.0	95.7	108.4
4	FH3725	65.3	61.7	57.0	51.5	62.0	88.0	58.7	63.5	102.3	96.7	115.0	87.0	98.0	166.5	96.3	108.8
5	FH3726	64.3	62.0	58.0	51.0	64.3	88.7	60.3	64.1	103.3	98.0	113.3	86.5	101.7	167.5	96.7	109.6
6	FH3731	64.0	64.0	55.0	49.5	64.0	88.3	56.3	63.0	98.3	98.0	111.3	85.0	99.7	166.5	95.0	107.7
7	FH3732	60.7	59.7	54.3	48.5	62.0	88.3	56.3	61.4	98.3	98.7	110.7	84.0	98.7	168.0	95.0	107.6
8	FH3735	61.3	57.7	51.7	48.0	62.3	87.7	57.0	60.8	98.7	95.7	110.3	83.5	99.0	162.5	95.3	106.4
9	FH3743	63.3	61.0	54.3	51.0	63.7	91.7	59.0	63.4	102.0	98.7	113.3	86.5	100.3	166.5	96.3	109.1
10	H56	62.0	58.7	51.3	48.5	62.3	85.7	55.3	60.5	96.3	93.0	108.3	84.0	98.7	164.5	95.0	105.7
11	H57	60.7	60.0	51.7	49.5	62.7	86.3	56.3	61.0	99.3	96.7	110.7	85.0	98.7	162.5	95.3	106.9
12	H64	61.0	60.7	51.7	53.0	63.7	86.0	58.3	62.0	99.7	102.0	108.3	88.5	99.3	162.5	96.0	108.0
13	EHL 6014	62.7	59.3	55.7	52.5	66.0	100.0	58.7	65.0	96.3	95.7	113.0	88.0	99.0	167.5	96.3	108.0
14	EHL 6114	61.0	60.7	53.3	49.0	62.7	96.7	55.7	62.7	98.3	95.0	110.0	84.5	99.0	167.0	94.7	106.9
15	FH3748	65.3	62.0	56.3	52.5	64.3	103.3	57.7	65.9	105.0	99.0	113.7	88.0	103.0	169.0	95.3	110.4
16	FH3749	62.0	56.7	55.3	51.5	63.0	102.3	57.3	64.0	103.0	99.3	112.7	87.0	100.0	165.5	95.7	109.0
17	FH3750	61.7	60.3	54.0	49.5	62.7	87.0	58.3	61.9	100.7	99.3	111.7	85.0	98.3	162.5	96.0	107.6
18	FH3756	57.7	56.0	50.0	49.0	62.0	102.7	55.0	61.8	98.0	95.0	108.0	84.5	97.7	170.0	94.7	106.8
19	FH3758	64.0	62.0	56.0	51.5	64.7	96.0	59.3	64.8	102.7	99.3	114.0	87.0	103.3	167.5	96.3	110.0
20	FH3733	63.0	61.7	55.7	51.0	64.3	96.7	57.0	64.2	103.0	99.0	113.0	86.5	98.3	164.5	95.3	108.5
21	FH3759	62.3	61.3	55.3	49.5	64.7	95.0	58.0	63.7	104.7	101.0	112.7	85.0	98.3	166.5	95.3	109.1
22	FH3760	64.3	58.0	53.3	48.5	62.7	84.3	55.7	61.0	99.0	96.0	111.7	84.0	97.7	167.5	94.7	107.2
23	DMRE 1401	61.3	58.7	53.3	48.0	63.7	85.0	55.0	60.7	98.3	96.7	110.7	83.5	103.7	164.5	95.0	107.5
24	EHL 6214	66.7	64.3	58.3	51.5	64.0	82.7	58.7	63.7	105.0	101.3	115.0	87.0	101.7	162.5	96.0	109.8
25	EHL 6314	61.0	58.3	54.0	49.5	63.0	83.7	54.7	60.6	98.3	94.7	111.0	85.0	99.0	164.5	94.7	106.7
26	EHL 6414	63.7	64.3	57.0	51.5	64.0	83.0	58.7	63.2	103.0	100.7	114.0	87.0	100.3	164.5	96.0	109.4
CHECKS																	
27	VivekHybrid9	57.3	54.0	48.0	47.5	62.0	87.7	54.3	58.7	97.7	97.3	105.3	83.0	98.0	165.5	94.0	105.8
28	Vivek hybrid39	58.7	56.7	52.3	49.5	62.0	90.7	55.3	60.7	100.3	98.7	109.7	85.0	99.3	163.0	95.3	107.3
	Loc. Mean	62.4	60.2	54.4	50.2	63.4	90.4	57.2	62.6	100.5	97.8	111.8	85.7	99.7	165.7	95.5	108.1
	C.D. (5%)	1.29	2.34	1.88	1.37	2.97	1.71	3.22	2.82	1.70	2.66	2.18	1.37	3.34	0.63	1.47	1.72
	C.V. (%)	1.27	2.37	2.11	1.33	2.86	1.16	3.44	4.27	1.03	1.66	1.19	0.78	2.05	0.23	0.94	1.51
	F (Prob)	0.00	0.00	0.00	0.00	0.49	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.07	0.00

Table No. 28 (Cont..)

S.No.	PEDIGREE	EAR HEIGHT(cm)							PLANT HEIGHT(cm)								
		ALMO	BAJA	BARA	KANG	POON	SRIN	UDHA	Mean	ALMO	BAJA	BARA	KANG	POON	SRIN	UDHA	Mean
1	FH3717	85.0	105.0	80.3	85.0	90.9	65.0	74.9	83.7	175.0	201.7	187.7	188.0	223.5	140.0	194.6	187.2
2	FH3721	88.3	120.0	104.0	88.0	99.3	73.3	75.5	92.6	185.0	241.7	235.7	199.0	245.0	140.0	215.5	208.8
3	FH3723	83.3	133.3	85.3	83.0	108.3	55.0	79.8	89.7	186.7	238.3	211.0	209.0	264.7	116.7	224.9	207.3
4	FH3725	91.7	126.7	93.0	77.5	100.8	81.7	83.8	93.6	188.3	228.3	217.0	195.5	251.0	155.0	212.5	206.8
5	FH3726	86.7	125.0	81.0	98.0	97.7	55.0	74.5	88.3	176.7	233.3	178.7	203.0	240.7	116.7	203.4	193.2
6	FH3731	90.0	141.7	105.3	100.0	102.0	45.0	74.3	94.0	191.7	268.3	216.3	208.5	253.7	115.0	231.2	212.1
7	FH3732	88.3	128.3	80.7	94.0	112.7	55.0	77.2	90.9	183.3	231.7	181.3	191.5	253.3	145.0	216.1	200.3
8	FH3735	70.0	100.0	76.3	77.5	89.3	71.7	79.7	80.6	173.3	191.7	187.0	182.5	234.3	156.7	210.9	190.9
9	FH3743	86.7	136.7	89.3	76.5	87.0	45.0	75.4	85.2	176.7	266.7	217.0	199.5	238.7	116.7	195.5	201.5
10	H56	76.7	123.3	97.7	89.5	96.7	50.0	73.4	86.7	168.3	215.0	192.7	190.0	241.7	121.7	194.8	189.2
11	H57	83.3	106.7	93.3	86.0	107.0	53.3	77.9	86.8	173.3	191.7	200.7	185.0	244.0	120.0	202.7	188.2
12	H64	88.3	126.7	88.3	84.5	106.3	65.0	85.8	92.1	178.3	240.0	211.0	213.0	259.3	140.0	239.6	211.6
13	EHL 6014	86.7	115.0	92.7	78.5	97.0	55.0	84.9	87.1	193.3	270.0	222.3	186.5	250.0	145.0	236.4	214.8
14	EHL 6114	78.3	123.3	78.7	94.0	99.0	51.7	81.7	86.7	181.7	261.7	187.3	212.5	257.7	125.0	209.1	205.0
15	FH3748	80.0	118.3	88.0	91.5	90.7	45.0	74.4	84.0	181.7	251.7	203.3	203.0	236.0	130.0	197.3	200.4
16	FH3749	80.0	106.7	94.7	86.5	96.3	56.7	85.3	86.6	180.0	218.3	217.7	205.5	249.0	135.0	233.7	205.6
17	FH3750	78.3	108.3	86.0	74.0	88.0	53.3	71.9	80.0	168.3	210.0	205.3	181.5	234.7	118.3	182.2	185.8
18	FH3756	80.0	96.7	67.3	66.5	94.7	60.0	71.4	76.7	161.7	183.3	171.0	158.5	260.3	125.0	170.6	175.8
19	FH3758	73.3	103.3	91.3	85.0	97.3	65.0	62.8	82.6	173.3	212.0	188.3	182.5	249.0	130.0	163.6	185.5
20	FH3733	83.3	125.0	92.3	93.5	108.0	43.3	70.0	87.9	188.3	233.3	219.7	195.5	263.3	121.7	216.1	205.4
21	FH3759	83.3	121.7	90.3	97.5	98.0	60.0	80.6	90.2	191.7	235.0	199.0	209.5	248.3	141.7	214.1	205.6
22	FH3760	91.7	120.0	89.7	72.5	99.7	80.0	67.0	88.6	171.7	215.0	182.0	163.5	226.0	165.0	195.9	188.4
23	DMRE 1401	78.3	110.0	69.7	86.5	94.7	63.3	79.1	83.1	175.0	205.0	167.7	193.0	234.7	130.0	183.3	184.1
24	EHL 6214	98.3	130.0	104.7	91.5	105.7	66.7	79.4	96.6	206.7	240.0	227.3	214.0	243.3	135.0	218.5	212.1
25	EHL 6314	80.0	103.3	79.3	86.5	90.0	70.0	75.0	83.5	166.7	195.0	166.0	191.5	234.7	140.0	191.0	183.5
26	EHL 6414	81.7	128.3	86.7	86.0	83.7	81.7	78.3	89.5	180.0	225.0	196.3	187.5	230.0	158.3	218.0	199.3
CHECKS																	
27	VivekHybrid9	83.3	110.0	78.7	75.0	95.3	50.0	76.9	81.3	186.7	225.0	183.0	180.5	244.9	125.0	190.3	190.8
28	Vivek hybrid39	80.0	108.3	74.7	75.0	93.7	53.3	77.4	80.3	181.7	206.7	189.7	187.0	239.3	125.0	205.7	190.7
Loc. Mean		83.4	117.9	87.1	85.0	97.5	59.6	76.7	86.8	180.2	226.3	198.6	193.4	244.7	133.3	206.0	197.5
C.D. (5%)		7.78	19.70	16.79	12.12	16.53	3.38	13.02	8.45	9.37	24.26	35.98	9.97	33.54	7.19	16.78	14.15
C.V. (%)		5.70	10.21	11.78	6.95	10.36	3.46	10.36	9.22	3.18	6.55	11.07	2.51	8.37	3.29	4.97	6.79
F (Prob)		0.00	0.00	0.00	0.00	0.10	0.00	0.17	0.00	0.00	0.00	0.01	0.00	0.66	0.00	0.00	0.00

TABLE No. 29 PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT BANSWARA, CHHINDWARA, UDAIPUR IN ZONAL TRIAL No. ZT501 DURING KHARIF (2014)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								GRAIN YIELD % SUPERIORITY OVER											
		ZN 5				Seed Tech 2324				BIO 9681				Pratap Makka-4							
		BANS	R	CHHI	R	UDAI	R	MEAN	R	BANS	CHHI	UDAI	MEAN	BANS	CHHI	UDAI	MEAN	BANS	CHHI	UDAI	MEAN
1	EH-2586	1546	19	2812	20	5485	20	3281	22	55.2	4.9	-	-	-	-	7	1	-	-	7.1	-
2	EH-2587	1689	12	2651	24	5999	15	3446	16	69.6	-	-	-	-	-	17	6	-	-	17.1	-
3	EH-2588	1918	5	2465	28	7898	4	4094	5	92.6	-	11.6	14.2	12	-	53	26	6.4	-	54.2	14
4	EH-2589	1376	22	3305	8	6785	13	3822	12	38.1	23.3	-	6.6	-	14	32	17	-	-	32.4	6.5
5	EH-2590	1959	4	1901	30	6085	14	3315	21	96.7	-	-	-	14	-	18	2	8.7	-	18.8	-
6	EH-2591	1654	15	2803	21	7129	7	3862	9	66.1	4.5	0.7	7.7	-	-	38	19	-	-	39.2	7.6
7	EH-2592	1750	8	3472	4	6893	12	4038	7	75.7	29.5	-	12.6	2	19	34	24	-	-	34.5	12.5
8	EH-2593	1644	16	3560	3	5721	18	3642	13	65.1	32.8	-	1.6	-	22	11	12	-	-	11.7	1.4
9	EH-2594	1272	26	3292	9	7614	5	4059	6	27.7	22.8	7.5	13.2	-	13	48	25	-	-	48.6	13.1
10	EH-2595	1685	13	2619	25	5738	17	3347	20	69.2	-	-	-	-	-	11	3	-	-	12	-
11	EH-2596	2054	3	2707	22	7034	10	3932	8	106.2	1	-	9.7	20	-	37	21	13.9	-	37.3	9.5
12	EH-2371	1794	7	2617	26	7953	3	4121	3	80.2	-	12.3	14.9	5	-	54	26	-	-	55.2	14.8
13	EH-2409	1184	28	3022	17	5990	16	3398	18	18.9	12.7	-	-	-	4	16	4	-	-	16.9	-
14	EH-2418	1722	10	3587	2	7039	9	4116	4	72.9	33.8	-	14.8	0	23	37	26	-	-	37.4	14.7
15	EH-2398	1278	25	3080	14	7167	6	3842	11	28.3	14.9	1.2	7.1	-	6	39	18	-	-	39.9	7
16	EH-2408	1730	9	3354	7	8831	1	4638	1	73.7	25.1	24.7	29.4	1	15	72	42	-	-	72.4	29.2
17	EC-3170	2145	2	3357	6	8051	2	4518	2	115.4	25.2	13.7	26	25	15	56	39	18.9	-	57.1	25.8
18	EC-3172	1367	23	3171	11	7005	11	3848	10	37.3	18.3	-	7.3	-	9	36	18	-	-	36.7	7.2
19	WH-1061	2208	1	3126	13	4885	25	3406	17	121.7	16.6	-	-	29	7	-	5	22.4	-	-	-
20	WH-1060	1583	17	2401	29	5442	21	3142	24	58.9	-	-	-	-	-	6	-	-	-	6.2	-
21	WH-1063	1245	27	3026	16	4072	28	2781	28	25	12.9	-	-	-	4	-	-	-	-	-	-
22	WH-1065	1426	21	3034	15	2781	30	2413	30	43.1	13.2	-	-	-	4	-	-	-	-	-	-
23	WH-1064	1497	20	3157	12	5513	19	3389	19	50.3	17.7	-	-	-	8	7	4	-	-	7.6	-
24	WH-1062	1360	24	2496	27	5151	22	3002	27	36.6	-	-	-	-	-	0	-	-	-	0.5	-
25	WH-1067	1581	18	3445	5	4324	27	3117	25	58.8	28.5	-	-	-	18	-	-	-	-	-	-
26	WH-1066	1666	14	2951	18	4578	26	3065	26	67.3	10.1	-	-	-	1	-	-	-	-	-	-
27	WH-2092	1087	29	3204	10	3789	29	2693	29	9.1	19.5	-	-	-	10	-	-	-	-	-	-

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								GRAIN YIELD % SUPERIORITY OVER											
		ZN 5				Seed Tech 2324				BIO 9681				Pratap Makka-4							
		BANS	R	CHHI	R	UDAI	R	MEAN	R	BANS	CHHI	UDAI	MEAN	BANS	CHHI	UDAI	MEAN	BANS	CHHI	UDAI	MEAN
CHECKS																					
28	Seed Tech-2324	996	30	2681	23	7080	8	3586	15	-	-	-	-	-	-	38	10	-	-	38.2	-
29	Bio -9681	1715	11	2911	19	5148	23	3258	23	72.2	8.6	-	-	-	-	-	-	-	-	0.5	-
30	Pratap Makka-4	1803	6	3844	1	5123	24	3590	14	81.1	43.4	-	0.1	5	32	-	10	-	-	-	-
Location Mean		1598		3002		6077		3559													
C.D. (5%)		521		1451		838		937													
C.V. (%)		20		29.6		8.43		-													
F (Prob)		0		0.87		0		-													
Plot Size		9.6		6		4.8		-													
AGRONOMY DATA																					
Sowing Date		13-07		5-07		7-07		-													
Harvest Date		18-10		27-11		19-10		-													
Irrigation Nos		-		-		1		-													
Fertilizer Applied N		150		120		120		-													
Fertilizer Applied P		80		60		90		-													
Fertilizer Applied K		-		40		-		-													

Table No. 29 (Cont..)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)				GRAIN SHELLING %				MOISTURE % AT HARVEST				DAYS TO 50% POLLEN SHED			
		BANS	CHHI	UDAI	Mean	BANS	CHHI	UDAI	Mean	BANS	CHHI	UDAI	Mean	BANS	CHHI	UDAI	Mean
1	EH-2586	24.3	34.4	59.7	42.0	68.3	84.8	83.0	78.7	17.3	11.4	22.2	16.9	52.7	57.3	49.3	53.1
2	EH-2587	21.5	35.0	59.7	40.6	72.2	82.9	83.1	79.4	17.5	11.4	23.8	17.6	53.3	57.0	49.7	53.3
3	EH-2588	28.1	32.2	57.6	42.9	71.4	86.9	82.9	80.4	17.6	12.3	22.5	17.5	53.3	56.3	50.0	53.2
4	EH-2589	27.8	39.4	59.7	43.8	71.5	84.9	83.0	79.8	17.6	13.6	22.1	17.8	53.3	56.7	49.7	53.2
5	EH-2590	24.3	35.6	56.9	40.6	71.0	82.4	83.4	78.9	17.8	10.8	21.6	16.7	53.0	54.7	50.0	52.6
6	EH-2591	25.7	33.9	59.0	42.4	70.0	85.7	82.7	79.4	17.5	11.6	22.7	17.2	53.0	58.0	52.7	54.6
7	EH-2592	26.7	43.3	57.6	42.2	69.3	85.5	81.9	78.9	17.4	11.9	21.9	17.1	53.3	56.3	48.7	52.8
8	EH-2593	28.1	40.0	60.4	44.3	69.7	83.8	83.1	78.8	17.5	11.9	22.6	17.3	52.7	57.3	54.3	54.8
9	EH-2594	24.0	33.3	59.7	41.8	70.1	84.8	82.1	79.0	17.8	12.5	21.7	17.3	53.3	56.0	51.7	53.7
10	EH-2595	25.7	38.3	58.3	42.0	70.5	85.1	83.8	79.8	17.6	11.6	21.3	16.8	52.7	58.7	50.3	53.9
11	EH-2596	24.0	33.3	59.0	41.5	72.4	88.5	83.3	81.4	17.9	13.3	21.6	17.6	53.3	54.7	52.3	53.4
12	EH-2371	25.3	32.8	58.3	41.8	69.2	84.8	82.9	79.0	17.2	12.4	22.0	17.2	53.0	57.3	54.0	54.8
13	EH-2409	26.4	39.4	60.4	43.4	67.7	84.6	83.6	78.6	16.2	12.3	21.0	16.5	53.0	58.7	48.3	53.3
14	EH-2418	26.7	41.7	59.7	43.2	70.8	87.2	83.2	80.4	17.4	12.0	21.0	16.8	53.3	57.3	51.3	54.0
15	EH-2398	28.8	38.3	57.6	43.2	70.1	87.4	83.1	80.2	17.4	11.7	22.1	17.1	52.3	56.7	51.3	53.4
16	EH-2408	22.9	41.7	59.0	41.0	69.0	88.7	83.8	80.5	16.9	12.2	21.8	16.9	52.3	57.0	49.0	52.8
17	EC-3170	25.3	31.7	61.1	43.2	72.7	85.3	82.8	80.2	17.9	12.7	23.2	17.9	53.3	56.7	48.0	52.7
18	EC-3172	22.6	36.1	61.1	41.8	70.0	86.8	82.0	79.6	17.6	12.9	21.0	17.2	53.0	57.7	49.7	53.4
19	WH-1061	23.3	38.9	59.0	41.1	72.3	89.3	83.7	81.8	17.4	10.9	21.5	16.6	53.3	55.0	51.0	53.1
20	WH-1060	21.5	38.3	59.7	40.6	69.4	86.2	82.9	79.5	16.7	11.5	22.0	16.7	53.0	57.3	51.0	53.8
21	WH-1063	25.3	43.3	59.7	42.5	71.4	84.8	83.7	80.0	18.2	12.5	21.1	17.2	52.7	56.7	48.7	52.7
22	WH-1065	23.6	43.3	59.0	41.3	69.9	86.2	82.8	79.6	16.8	12.5	21.7	17.0	52.7	58.7	49.7	53.7
23	WH-1064	25.3	41.1	59.0	42.2	70.7	83.3	82.3	78.8	17.5	12.2	21.2	17.0	53.0	56.0	49.3	52.8
24	WH-1062	25.3	37.2	59.7	42.5	69.7	80.6	82.6	77.6	17.1	12.1	20.5	16.5	53.3	58.0	47.0	52.8
25	WH-1067	23.3	34.4	61.8	42.5	68.5	89.8	81.8	80.0	16.8	12.5	22.1	17.1	53.3	56.0	49.7	53.0
26	WH-1066	25.3	43.9	60.4	42.9	70.3	86.5	82.8	79.9	17.7	11.8	21.3	16.9	52.0	57.3	51.3	53.6
27	WH-2092	25.3	43.3	58.3	41.8	64.1	85.7	83.9	77.9	17.0	11.9	22.1	17.0	52.7	57.0	49.0	52.9
CHECKS																	
28	Seed Tech-2324	22.9	35.0	59.7	41.3	67.2	84.1	82.5	77.9	18.1	11.2	21.1	16.8	53.7	57.7	51.0	54.1
29	Bio -9681	25.0	36.1	59.0	42.0	67.3	84.4	84.3	78.6	16.9	12.4	21.3	16.8	53.7	56.0	51.7	53.8
30	Pratap Makka-4	25.7	38.9	59.0	42.4	69.8	84.5	83.6	79.3	16.8	11.7	21.1	16.5	52.0	57.3	48.0	52.4
Loc. Mean		25.0	37.8	59.3	42.2	69.9	85.5	83.0	79.5	17.3	12.0	21.7	17.0	53.0	56.9	50.3	53.4
C.D. (5%)		4.61	16.00	2.67	3.53	2.80	6.06	0.59	2.61	0.93	1.70	0.72	0.99	1.74	3.07	1.15	2.02
C.V. (%)		11.27	25.89	2.76	4.10	2.45	4.33	0.44	2.01	3.30	8.63	2.03	3.57	2.00	3.30	1.40	2.32
F (Prob)		0.18	0.99	0.15	0.92	0.00	0.61	0.00	0.41	0.02	0.32	0.00	0.42	0.97	0.57	0.00	0.76

Table No. 29 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% SILKING				DAYS TO 75% DRY HUSK				PLANT HEIGHT(cm)				EAR HEIGHT(cm)			
		BANS	CHHI	UDAI	Mean	BANS	CHHI	UDAI	Mean	BANS	CHHI	UDAI	Mean	BANS	CHHI	UDAI	Mean
1	EH-2586	55.7	58.7	51.0	55.1	88.0	88.3	83.3	86.6	210.0	163.3	206.7	185.0	112.0	68.3	95.0	91.8
2	EH-2587	56.7	58.3	51.0	55.3	89.7	89.0	82.7	87.1	163.3	161.7	205.0	183.3	93.7	71.7	90.0	85.1
3	EH-2588	56.3	57.7	51.7	55.2	88.7	91.3	84.7	88.2	187.3	146.7	210.0	178.3	108.3	63.3	111.7	94.4
4	EH-2589	56.3	58.3	51.3	55.3	88.0	87.0	82.3	85.8	192.3	140.0	200.0	170.0	108.7	63.3	88.3	86.8
5	EH-2590	56.0	56.0	52.0	54.7	89.0	87.3	83.3	86.6	205.7	148.3	200.0	174.2	107.3	63.3	91.7	87.4
6	EH-2591	56.0	59.7	55.0	56.9	89.3	90.3	85.7	88.4	243.7	138.3	241.7	190.0	110.3	65.0	116.7	97.3
7	EH-2592	56.3	57.7	51.0	55.0	87.3	89.3	81.7	86.1	202.0	145.0	205.0	175.0	112.0	65.0	103.3	93.4
8	EH-2593	56.3	58.7	56.3	57.1	88.7	90.0	87.7	88.8	235.3	161.7	195.0	178.3	115.0	78.3	85.0	92.8
9	EH-2594	56.3	57.3	53.0	55.6	88.0	90.0	81.7	86.6	170.0	153.3	201.7	177.5	98.7	65.0	90.0	84.6
10	EH-2595	55.7	59.7	52.3	55.9	88.7	92.0	84.7	88.4	205.7	165.0	200.0	182.5	99.3	76.7	91.7	89.2
11	EH-2596	56.3	56.0	54.0	55.4	87.0	88.7	84.7	86.8	230.7	153.3	210.0	181.7	115.3	68.3	88.3	90.7
12	EH-2371	56.0	58.3	55.7	56.7	88.3	90.3	84.7	87.8	209.0	153.3	200.0	176.7	103.7	71.7	95.0	90.1
13	EH-2409	56.0	60.3	50.7	55.7	87.7	91.0	83.3	87.3	180.0	155.0	198.3	176.7	101.7	58.3	88.3	82.8
14	EH-2418	56.3	58.7	53.0	56.0	89.7	92.0	81.0	87.6	155.3	143.3	196.7	170.0	85.7	58.3	96.7	80.2
15	EH-2398	55.7	57.7	53.3	55.6	87.7	90.3	82.3	86.8	215.3	143.3	200.0	171.7	110.3	66.7	98.3	91.8
16	EH-2408	55.3	58.0	51.0	54.8	87.0	89.7	82.7	86.4	226.7	133.3	216.7	175.0	102.3	58.3	110.0	90.2
17	EC-3170	56.3	58.3	50.0	54.9	88.3	90.3	81.7	86.8	178.3	146.7	221.7	184.2	100.3	65.0	115.0	93.4
18	EC-3172	56.0	59.3	51.0	55.4	88.3	90.7	81.7	86.9	163.7	148.3	203.3	175.8	98.7	68.3	95.0	87.3
19	WH-1061	56.7	56.3	52.7	55.2	89.3	86.3	84.3	86.7	232.0	153.3	205.0	179.2	110.0	70.0	90.0	90.0
20	WH-1060	56.0	58.7	52.7	55.8	89.0	90.7	84.7	88.1	175.0	130.0	205.0	167.5	100.7	58.3	106.7	88.6
21	WH-1063	55.3	58.0	50.7	54.7	87.0	89.7	82.7	86.4	150.0	135.0	208.3	171.7	93.7	68.3	90.0	84.0
22	WH-1065	55.7	59.7	51.7	55.7	88.3	89.3	81.0	86.2	158.7	158.3	165.0	161.7	97.7	71.7	78.3	82.6
23	WH-1064	56.0	57.0	51.3	54.8	89.0	89.7	81.7	86.8	168.3	141.7	191.7	166.7	96.0	61.7	83.3	80.3
24	WH-1062	56.3	59.3	49.0	54.9	88.7	90.7	80.3	86.6	168.3	146.7	181.7	164.2	95.0	68.3	90.0	84.4
25	WH-1067	56.3	57.3	51.7	55.1	89.0	88.3	83.7	87.0	171.7	143.3	191.7	167.5	103.7	68.3	88.3	86.8
26	WH-1066	55.0	58.3	52.7	55.3	88.7	88.3	84.3	87.1	206.7	168.3	193.3	180.8	100.3	71.7	81.7	84.6
27	WH-2092	56.0	58.3	50.7	55.0	88.0	89.0	83.3	86.8	170.0	165.0	181.7	173.3	84.3	71.7	88.3	81.4
CHECKS																	
28	Seed Tech-2324	57.0	58.7	53.0	56.2	89.3	90.0	84.3	87.9	183.7	145.0	210.0	177.5	108.7	70.0	110.0	96.2
29	Bio -9681	56.7	57.3	53.3	55.8	87.0	89.7	84.3	87.0	167.0	153.3	183.3	168.3	97.7	65.0	80.0	80.9
30	Pratap Makka-4	55.3	58.3	50.0	54.6	88.7	89.3	81.0	86.3	185.7	165.0	191.7	178.3	103.3	71.7	93.3	89.4
Loc. Mean		56.1	58.2	52.1	55.5	88.4	89.6	83.2	87.1	190.4	150.2	200.7	175.4	102.5	67.1	94.3	88.0
C.D. (5%)		1.72	2.99	0.86	1.97	2.04	3.73	1.05	2.13	66.95	32.51	13.90	29.31	26.90	19.51	11.62	12.97
C.V. (%)		1.88	3.14	1.02	2.17	1.41	2.55	0.77	1.50	21.52	13.25	4.24	8.17	16.06	17.80	7.54	9.02
F (Prob)		0.95	0.48	0.00	0.66	0.25	0.45	0.00	0.45	0.23	0.75	0.00	0.99	0.87	0.95	0.00	0.38

TABLE No. 30 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BANSWARA, CHHINDWARA, UDAIPUR IN ZONAL TRIAL No. ZT502 DURING KHARIF (2014)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								GRAIN YIELD % SUPERIORITY OVER											
		BANS				UDAI				PMH 4				HM 10				BIO 9637			
		R	CHHI	R	MEAN	R	CHHI	R	MEAN	BANS	CHHI	UDAI	MEAN	BANS	CHHI	UDAI	MEAN	BANS	CHHI	UDAI	MEAN
1	EH 2460	1731	8	5596	16	8818	10	5382	9	5.4	-	28.9	2.4	14.7	-	126	45.8	13.3	7.4	30.7	19.7
2	EH 2480	1697	9	7241	2	9006	7	5981	1	3.3	-	31.6	13.8	12.5	27.7	131	62	11.1	39	33.5	33.1
3	EH 2438	1928	3	5037	21	9743	3	5569	7	17.4	-	42.4	6	27.8	-	150	50.9	26.2	-	44.4	23.9
4	EH 2499	1628	17	6192	9	9932	1	5917	2	-	-	45.1	12.6	7.9	9.2	155	60.3	6.6	18.8	47.2	31.6
5	EH 2453	2248	2	5471	18	7911	14	5210	13	36.8	-	15.6	-	49	-	103	41.1	47.1	5	17.2	15.9
6	EH 2456	1751	7	4361	28	8180	13	4764	19	6.6	-	19.5	-	16.1	-	110	29	14.6	-	21.2	6
7	EH 2462	1490	24	5518	17	7381	16	4796	17	-	-	7.8	-	-	-	89.5	29.9	-	5.9	9.4	6.7
8	EH 2500	2606	1	4849	23	6929	17	4795	18	58.6	-	1.2	-	72.7	-	77.9	29.9	70.6	-	2.7	6.7
9	EC 3171	1460	26	5890	13	6213	25	4521	23	-	-	-	-	-	3.8	59.5	22.5	-	13	-	0.6
10	ECQ 03	1017	29	6178	10	3734	30	3643	30	-	-	-	-	-	8.9	-	-	-	18.6	-	-
11	EH 2575	1763	6	4636	25	9678	4	5359	10	7.3	-	41.4	2	16.8	-	149	45.2	15.4	-	43.4	19.2
12	EH 2576	1808	5	6256	7	9215	6	5760	4	10	-	34.6	9.6	19.8	10.3	137	56	18.3	20.1	36.6	28.1
13	EH 2577	1659	14	5334	19	6589	23	4527	22	1	-	-	-	10	-	69.2	22.6	8.6	2.4	-	0.7
14	EH 2578	1636	16	7200	3	6694	21	5177	14	-	-	-	-	8.4	27	71.9	40.2	7.1	38.2	-	15.2
15	EH 2579	1674	11	5810	14	8524	12	5336	11	1.9	-	24.6	1.5	10.9	2.4	119	44.5	9.5	11.5	26.3	18.7
16	EH 2580	1678	10	5906	12	6300	24	4628	21	2.1	-	-	-	11.2	4.1	61.8	25.4	9.8	13.4	-	3
17	EH 2581	1555	21	5024	22	7576	15	4718	20	-	-	10.7	-	3	-	94.5	27.8	1.8	-	12.3	5
18	EH 2582	1481	25	6313	5	8778	11	5524	8	-	-	28.3	5.1	-	11.3	125	49.6	-	21.2	30.1	22.9
19	WH 2093	1825	4	4120	29	8955	8	4966	16	11.1	-	30.8	-	20.9	-	130	34.5	19.4	-	32.7	10.5
20	WH 2180	1593	19	6246	8	8882	9	5574	6	-	-	29.8	6.1	5.6	10.1	128	51	4.3	19.9	31.6	24
21	WH 2094	1307	28	7002	4	6595	22	4968	15	-	-	-	-	-	23.5	69.3	34.6	-	34.4	-	10.5
22	WH 2098	974	30	4526	27	6004	26	3835	28	-	-	-	-	-	-	54.2	3.9	-	-	-	-
23	WH 2097	1671	12	4100	30	6870	18	4213	25	1.7	-	0.4	-	10.7	-	76.4	14.1	9.3	-	1.8	-
24	WH 2099	1580	20	4585	26	5840	27	4002	26	-	-	-	-	4.7	-	50	8.4	3.4	-	-	-
25	WH 2091	1320	27	5989	11	9903	2	5737	5	-	-	44.7	9.2	-	5.6	154	55.4	-	15	46.8	27.6
26	WH 2096	1667	13	6264	6	9591	5	5841	3	1.5	-	40.1	11.1	10.5	10.5	146	58.2	9.1	20.2	42.1	29.9
27	WH 2095	1611	18	4831	24	5381	28	3941	27	-	-	-	-	6.8	-	38.2	6.8	5.4	-	-	-

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								GRAIN YIELD % SUPERIORITY OVER											
		ZIN 5				PMH 4				HM 10				BIO 9637							
		BANS	R	CHHI	R	UDAI	R	MEAN	R	BANS	CHHI	UDAI	MEAN	BANS	CHHI	UDAI	MEAN	BANS	CHHI	UDAI	MEAN
CHECKS																					
28	PMH 4	1643	15	7281	1	6844	19	5256	12	-	-	-	-	8.9	28.4	75.7	42.4	7.5	39.8	1.4	16.9
29	HM 10	1509	23	5671	15	3895	29	3692	29	-	-	-	-	-	-	-	-	-	8.9	-	-
30	BIO 9637	1528	22	5210	20	6747	20	4495	24	-	-	-	-	1.3	-	73.2	21.8	-	-	-	-
Location Mean		1635		5621		7557		4938													
C.D. (5%)		423		2016		799		1079													
C.V. (%)		15.84		21.93		6.47		-													
F (Prob)		0		0.043		0															
Plot Size		9.6		6		4.8		-													
AGRONOMY DATA																					
Sowing Date		13-07		5-07		7-07		-													
Harvest Date		18-10		20-11		19-10		-													
Irrigation Nos		-		-		1		-													
Fertilizer Applied N		150		120		120		-													
Fertilizer Applied P		80		60		90		-													
Fertilizer Applied K		-		40		-		-													

Table No. 30 (Cont..)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)				GRAIN SHELLING %				MOISTURE % AT HARVEST				DAYS TO 50% POLLEN SHED			
		BANS	CHHI	UDAI	Mean	BANS	CHHI	UDAI	Mean	BANS	CHHI	UDAI	Mean	BANS	CHHI	UDAI	Mean
1	EH 2460	24.7	57.8	59.7	47.4	70.1	85.7	80.4	78.7	17.2	15.8	21.0	18.0	44.0	57.7	51.3	51.0
2	EH 2480	25.3	56.7	59.7	47.2	71.9	80.7	80.5	77.7	17.3	15.3	22.2	18.3	42.7	57.7	52.0	50.8
3	EH 2438	25.0	45.6	57.6	42.7	70.7	83.6	80.8	78.3	17.1	16.2	21.7	18.3	43.7	56.0	50.7	50.1
4	EH 2499	25.0	44.4	60.4	43.3	69.7	85.4	81.3	78.8	17.0	14.9	21.3	17.7	43.3	55.3	52.3	50.3
5	EH 2453	27.1	38.9	53.5	39.8	70.1	81.2	79.7	77.0	17.4	16.9	23.8	19.3	43.7	56.7	53.0	51.1
6	EH 2456	29.5	50.6	54.9	45.0	70.3	84.5	80.2	78.3	17.3	14.4	20.5	17.4	43.7	55.3	52.7	50.6
7	EH 2462	27.1	49.4	58.3	45.0	69.0	83.3	78.8	77.0	16.7	14.5	20.8	17.3	42.7	56.7	50.7	50.0
8	EH 2500	27.8	43.3	55.6	42.2	70.2	84.8	80.3	78.4	17.0	15.5	20.3	17.6	43.3	56.7	54.7	51.6
9	EC 3171	25.3	46.7	55.6	42.5	69.0	86.4	79.1	78.1	16.9	14.4	22.4	17.9	42.7	53.7	50.7	49.0
10	ECQ 03	22.2	52.2	53.5	42.6	70.4	83.6	79.5	77.8	17.7	16.0	21.2	18.3	43.3	55.0	52.3	50.2
11	EH 2575	25.0	46.1	56.9	42.7	72.1	81.1	80.8	78.0	16.9	14.8	20.8	17.5	44.0	58.3	53.0	51.8
12	EH 2576	25.0	40.6	57.6	41.1	71.1	89.6	81.2	80.6	17.0	15.4	19.7	17.3	44.3	54.3	52.0	50.2
13	EH 2577	24.3	54.4	62.5	47.1	69.8	87.2	80.4	79.1	16.8	15.2	22.6	18.2	44.7	55.0	52.0	50.6
14	EH 2578	26.7	52.2	59.0	46.0	69.1	85.5	79.4	78.0	17.2	16.3	24.4	19.3	43.3	56.0	52.3	50.6
15	EH 2579	26.0	48.3	57.6	44.0	68.7	82.9	80.8	77.5	17.1	16.8	22.2	18.7	42.3	56.7	49.3	49.4
16	EH 2580	28.1	50.6	52.8	43.8	69.8	87.6	78.8	78.7	17.1	15.4	22.3	18.2	44.0	55.0	52.0	50.3
17	EH 2581	23.6	51.7	47.2	40.8	69.4	86.3	79.9	78.5	16.9	14.7	23.9	18.5	41.3	54.0	51.0	48.8
18	EH 2582	24.3	48.9	58.3	43.8	69.2	85.3	82.0	78.8	16.7	14.9	21.5	17.7	45.0	53.3	52.3	50.2
19	WH 2093	26.7	50.0	56.9	44.6	70.1	85.5	80.8	78.8	17.3	14.6	20.2	17.3	44.0	52.7	49.3	48.7
20	WH 2180	25.3	52.8	57.6	45.3	69.0	87.7	80.9	79.2	17.0	16.2	21.0	18.0	42.7	54.3	50.7	49.2
21	WH 2094	26.0	58.9	47.2	44.1	68.9	84.0	80.9	77.9	17.1	16.2	22.4	18.6	43.0	55.7	49.7	49.4
22	WH 2098	25.3	47.8	61.1	44.7	68.8	85.6	81.3	78.6	16.7	14.4	20.0	17.0	43.3	54.3	50.3	49.3
23	WH 2097	28.5	47.2	48.6	41.4	70.7	86.8	80.9	79.4	17.4	15.0	20.6	17.7	42.0	55.3	52.0	49.8
24	WH 2099	27.1	53.3	58.3	46.3	69.4	87.4	80.9	79.2	17.0	16.2	20.8	18.0	42.0	59.3	50.0	50.4
25	WH 2091	23.6	47.2	61.8	44.2	68.8	87.7	81.3	79.3	16.2	15.2	20.0	17.1	44.0	56.3	50.7	50.3
26	WH 2096	26.4	55.0	61.8	47.7	69.0	88.8	81.2	79.6	16.5	15.6	21.9	18.0	42.3	55.7	47.7	48.6
27	WH 2095	27.1	42.2	50.0	39.8	69.9	82.6	80.4	77.6	17.0	16.7	19.8	17.8	43.7	58.0	45.3	49.0
CHECKS																	
28	PMH 4	26.0	56.1	59.0	47.1	70.1	82.1	80.1	77.4	16.8	17.6	22.2	18.9	43.3	60.0	52.7	52.0
29	HM 10	26.0	55.6	45.8	42.5	69.1	87.9	79.8	78.9	16.5	15.4	21.9	17.9	44.0	53.3	52.7	50.0
30	BIO 9637	25.7	47.8	56.9	43.5	71.8	84.1	80.0	78.6	17.2	15.4	23.2	18.6	42.7	58.3	51.0	50.7
	Loc. Mean	25.9	49.7	56.2	43.9	69.8	85.2	80.4	78.5	17.0	15.5	21.5	18.0	43.3	55.9	51.2	50.1
	C.D. (5%)	4.39	13.19	5.91	6.78	1.45	5.38	0.52	2.60	0.46	2.89	0.54	1.32	2.97	4.06	1.31	2.55
	C.V. (%)	10.38	16.23	6.44	9.44	1.27	3.86	0.40	2.03	1.65	11.37	1.52	4.50	4.19	4.44	1.57	3.11
	F (Prob)	0.47	0.28	0.00	0.67	0.00	0.09	0.00	0.77	0.00	0.88	0.00	0.06	0.90	0.06	0.00	0.51

Table No. 30 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% SILKING				DAYS TO 75% DRY HUSK				PLANT HEIGHT(cm)				EAR HEIGHT(cm)			
		BANS	CHHI	UDAI	Mean	BANS	CHHI	UDAI	Mean	BANS	CHHI	UDAI	Mean	BANS	CHHI	UDAI	Mean
1	EH 2460	47.0	59.7	53.0	53.2	78.7	88.7	83.3	83.6	201.0	193.3	175.0	189.8	103.7	95.0	81.7	93.4
2	EH 2480	45.7	58.7	53.3	52.6	68.0	89.3	87.0	81.4	210.7	180.0	205.0	198.6	106.0	81.7	101.7	96.4
3	EH 2438	47.0	57.0	52.7	52.2	82.0	89.0	87.7	86.2	195.3	166.7	241.7	201.2	95.7	71.7	105.0	90.8
4	EH 2499	46.7	56.7	53.3	52.2	78.0	88.7	88.3	85.0	194.0	195.0	246.7	211.9	100.7	85.0	110.0	98.6
5	EH 2453	46.7	58.7	54.7	53.3	80.3	89.7	90.3	86.8	204.0	181.7	245.0	210.2	105.3	81.7	111.7	99.6
6	EH 2456	47.0	56.3	55.0	52.8	78.3	88.7	92.7	86.6	206.7	181.7	221.7	203.3	107.3	75.0	126.0	102.8
7	EH 2462	46.0	57.7	52.3	52.0	75.7	90.0	85.0	83.6	202.0	166.7	226.7	198.4	109.0	73.3	123.3	101.9
8	EH 2500	46.7	57.7	56.7	53.7	82.3	87.7	84.3	84.8	198.7	183.3	190.0	190.7	96.7	81.7	90.0	89.4
9	EC 3171	46.0	55.3	52.3	51.2	76.3	87.3	89.7	84.4	202.3	193.3	221.7	205.8	102.0	85.0	113.3	100.1
10	ECQ 03	46.3	56.3	54.0	52.2	80.7	87.7	89.7	86.0	191.7	206.7	193.3	197.2	94.0	93.3	91.7	93.0
11	EH 2575	47.0	60.0	54.0	53.7	82.0	90.7	85.7	86.1	198.7	168.3	226.7	197.9	100.7	80.0	106.7	95.8
12	EH 2576	47.3	56.0	53.0	52.1	79.3	87.3	87.3	84.7	195.3	180.0	175.0	183.4	97.3	81.7	85.0	88.0
13	EH 2577	47.7	56.3	53.7	52.6	83.7	86.7	85.7	85.3	198.3	175.0	188.3	187.2	104.3	76.7	90.0	90.3
14	EH 2578	46.3	57.7	53.7	52.6	78.3	87.3	86.3	84.0	218.7	186.7	213.3	206.2	107.0	95.0	100.0	100.7
15	EH 2579	45.3	58.0	50.7	51.3	78.7	89.3	87.3	85.1	197.3	198.3	213.3	203.0	102.3	95.0	108.3	101.9
16	EH 2580	47.0	56.7	54.3	52.7	82.7	90.0	88.3	87.0	202.0	183.3	213.3	199.6	97.3	76.7	116.7	96.9
17	EH 2581	45.0	55.0	52.7	50.9	76.7	85.3	85.3	82.4	208.7	171.7	221.7	200.7	104.3	80.0	121.7	102.0
18	EH 2582	46.7	55.3	53.7	51.9	78.0	87.7	89.7	85.1	209.0	173.3	221.7	201.3	108.7	71.7	118.3	99.6
19	WH 2093	47.3	54.0	50.7	50.7	74.7	86.0	83.0	81.2	187.7	165.0	243.3	198.7	107.3	75.0	135.0	105.8
20	WH 2180	45.7	55.7	52.3	51.2	79.0	87.3	87.7	84.7	207.3	176.7	225.0	203.0	103.3	78.3	125.0	102.2
21	WH 2094	46.3	56.7	51.3	51.4	79.7	87.3	84.0	83.7	203.7	188.3	195.0	195.7	108.7	83.3	95.0	95.7
22	WH 2098	46.7	55.7	51.7	51.3	78.7	86.0	84.7	83.1	202.3	175.0	183.3	186.9	105.7	73.3	80.0	86.3
23	WH 2097	45.0	56.3	54.3	51.9	80.7	87.0	84.3	84.0	207.3	163.3	193.3	188.0	101.7	70.0	100.0	90.6
24	WH 2099	45.3	60.7	51.7	52.6	77.7	89.7	81.7	83.0	232.0	158.3	178.3	189.6	114.0	71.7	116.7	100.8
25	WH 2091	47.0	57.7	52.0	52.2	81.0	87.7	86.0	84.9	200.3	188.3	166.7	185.1	107.7	76.7	100.0	94.8
26	WH 2096	44.0	57.7	49.3	50.3	76.0	86.3	82.0	81.4	203.3	170.0	220.0	197.8	97.3	80.0	103.3	93.6
27	WH 2095	45.7	59.7	47.3	50.9	77.3	91.0	83.7	84.0	201.0	180.0	183.3	188.1	102.0	85.0	105.0	97.3
CHECKS																	
28	PMH 4	46.3	61.0	54.0	53.8	79.3	92.3	87.7	86.4	200.7	190.0	191.7	194.1	104.0	88.3	93.3	95.2
29	HM 10	47.3	55.0	55.0	52.4	79.7	87.7	83.3	83.6	199.0	165.0	225.0	196.3	102.3	70.0	115.0	95.8
30	BIO 9637	45.7	60.0	52.7	52.8	80.3	90.7	86.3	85.8	199.0	181.7	185.0	188.6	100.7	80.0	93.3	91.3
Loc. Mean		46.3	57.3	52.8	52.2	78.8	88.3	86.3	84.5	202.6	179.6	207.7	196.6	103.2	80.4	105.4	96.3
C.D. (5%)		2.90	4.10	1.22	2.57	8.68	4.19	1.16	3.85	19.10	25.13	7.44	27.59	12.87	19.90	18.50	16.32
C.V. (%)		3.84	4.38	1.42	3.01	6.74	2.90	0.82	2.79	5.77	8.56	2.19	8.59	7.63	15.14	10.74	10.36
F (Prob)		0.86	0.07	0.00	0.48	0.56	0.21	0.00	0.16	0.10	0.04	0.00	0.93	0.46	0.35	0.00	0.81

TABLE NO. 31 PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT BANSWARA, CHHINDWARA, UDAIPUR IN ZONAL TRIAL No. ZT503 DURING KHARIF (2014)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								GRAIN YIELD % SUPERIORITY OVER											
		ZN 5								Pratap QPM-1				Vivek Hybrid -21				Prakash			
		BANS	R	CHHI	R	UDAI	R	MEAN	R	BANS	CHHI	UDAI	MEAN	BANS	CHHI	UDAI	MEAN	BANS	CHHI	UDAI	MEAN
1	GWH-1216	1200	29	2825	10	7327	5	7327	5	-	8	-	-	-	-	3	3	-	7	4	4
2	GYH-1103	1294	26	2056	29	5207	26	5207	26	-	-	-	-	-	-	-	-	-	-	-	-
3	GWH-1257	1441	15	3249	3	7254	8	7254	8	4	25	-	-	6	-	2	2	5	23	3	3
4	GYH-0965	1506	9	2498	22	7100	10	7100	10	8	-	-	-	10	-	-	-	9	-	1	1
5	GWH-1005	1452	13	3162	4	6937	14	6937	14	4	21	-	-	6	-	-	-	5	20	-	-
6	GWC-0911	1967	1	2025	30	6353	17	6353	17	41	-	-	-	44	-	-	-	43	-	-	-
7	GWH-1214	1502	10	2321	23	6394	16	6394	16	8	-	-	-	10	-	-	-	9	-	-	-
8	GWC-0301	1464	12	2778	13	5931	19	5931	19	5	7	-	-	7	-	-	-	6	5	-	-
9	GWH-1001	1584	7	2276	24	6419	15	6419	15	14	-	-	-	16	-	-	-	15	-	-	-
10	GWH-QPM-0919	1679	4	2790	11	6317	18	6317	18	21	7	-	-	23	-	-	-	22	5	-	-
11	EH-2429	1442	14	2535	20	7287	6	7287	6	4	-	-	-	6	-	2	2	5	-	3	3
12	EH-2432	1212	28	3020	7	7272	7	7272	7	-	16	-	-	-	-	2	2	-	14	3	3
13	EH-2416	1494	11	2112	27	8307	3	8307	3	7	-	-	-	9	-	17	17	8	-	18	18
14	EH-2417	1867	3	2099	28	9225	1	9225	1	34	-	1	1	37	-	29	29	36	-	31	31
15	EH-2424	1382	19	3021	6	5910	20	5910	20	-	16	-	-	1	-	-	-	0	14	-	-
16	EH-2425	1652	5	2157	26	5837	22	5837	22	19	-	-	-	21	-	-	-	20	-	-	-
17	EH-2583	1327	25	2626	18	7839	4	7839	4	-	1	-	-	-	-	10	10	-	-	11	11
18	EH-2584	1923	2	2882	9	7023	13	7023	13	38	11	-	-	41	-	-	-	40	9	-	-
19	EH-2585	1506	8	2781	12	7063	11	7063	11	8	7	-	-	10	-	-	-	9	5	0	0
20	WH-3074	1224	27	2660	15	5069	27	5069	27	-	2	-	-	-	-	-	-	-	1	-	-
21	WH-3076	1328	24	2658	16	4510	28	4510	28	-	2	-	-	-	-	-	-	-	0	-	-
22	WH-3073	1619	6	3054	5	4410	29	4410	29	16	17	-	-	19	-	-	-	17	15	-	-
23	WH-3069	1379	20	2723	14	5605	23	5605	23	-	5	-	-	1	-	-	-	0	3	-	-
24	WH-3071	1406	16	3925	1	4225	30	4225	30	1	51	-	-	3	5	-	-	2	48	-	-
25	WH-3072	1082	30	2241	25	5424	24	5424	24	-	-	-	-	-	-	-	-	-	-	-	-
26	WH-3070	1330	23	2985	8	5886	21	5886	21	-	15	-	-	-	-	-	-	-	13	-	-
27	WH-3075	1396	17	2515	21	5414	25	5414	25	0	-	-	-	2	-	-	-	1	-	-	-

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								GRAIN YIELD % SUPERIORITY OVER											
		ZIN 5				Pratap QPM-1				Vivek Hybrid -21				Prakash							
		BANS	R	CHHI	R	UDAI	R	MEAN	R	BANS	CHHI	UDAI	MEAN	BANS	CHHI	UDAI	MEAN	BANS	CHHI	UDAI	MEAN
CHECKS																					
28	Pratap QPM-1	1390	18	2604	19	9097	2	9097	2	-	-	-	-	2	-	28	28	1	-	29	29
29	Vivek Hybrid -21	1365	22	3744	2	7126	9	7126	9	-	44	-	-	-	-	-	-	-	42	1	1
30	Prakash	1378	21	2645	17	7052	12	7052	12	-	2	-	-	1	-	-	-	-	-	-	-
Location Mean		1460		2699		6494		6494													
C.D. (5%)		563		1204		1038		1038													
C.V. (%)		23.61		27.29		9.77		-													
F (Prob)		0.385		0.265		0															
Plot Size		9.6		6		4.8		-													
AGRONOMY DATA																					
Sowing Date		13-07		5-07		7-07		-													
Harvest Date		18-10		28-11		19-10		-													
Irrigation Nos		-		-		1		-													
Fertilizer Applied N		150		120		90		-													
Fertilizer Applied P		80		60		60		-													
Fertilizer Applied K		-		40		-		-													

Table No. 31 (Cont..)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)				GRAIN SHELLING %				MOISTURE % AT HARVEST				DAYS TO 50% POLLEN SHED			
		BANS	CHHI	UDAI	Mean	BANS	CHHI	UDAI	Mean	BANS	CHHI	UDAI	Mean	BANS	CHHI	UDAI	Mean
1	GWH-1216	25.0	46.1	61.1	44.1	70.3	77.6	83.2	77.0	16.3	9.8	22.5	16.2	41.0	61.3	46.3	49.6
2	GYH-1103	25.3	41.1	60.4	42.3	68.9	73.6	82.4	74.9	16.2	9.4	21.0	15.5	41.7	59.0	44.3	48.3
3	GWH-1257	24.7	41.1	61.8	42.5	68.8	78.3	83.0	76.7	16.2	9.5	20.8	15.5	41.3	56.7	44.7	47.6
4	GYH-0965	27.4	47.8	61.1	45.4	69.8	71.4	82.8	74.6	16.2	9.0	22.2	15.8	41.0	55.0	46.3	47.4
5	GWH-1005	26.4	60.0	59.0	48.5	69.5	75.0	83.0	75.8	16.2	9.8	21.2	15.7	43.3	59.3	47.3	50.0
6	GWC-0911	25.7	52.2	61.8	46.6	70.0	70.2	82.9	74.3	15.9	9.5	21.5	15.6	41.7	56.0	47.0	48.2
7	GWH-1214	27.1	42.2	60.4	43.2	70.8	70.5	83.0	74.8	16.0	9.6	22.7	16.1	39.7	57.3	44.7	47.2
8	GWC-0301	23.3	38.3	59.0	40.2	69.3	75.9	83.1	76.1	15.9	9.7	21.4	15.6	41.3	56.7	46.0	48.0
9	GWH-1001	25.7	42.8	61.8	43.4	70.4	68.3	82.0	73.6	16.5	9.5	21.5	15.8	40.7	58.7	43.7	47.7
10	GWH-QPM-0919	24.0	47.2	60.4	43.9	68.6	78.6	82.9	76.7	15.8	9.5	21.0	15.4	42.7	60.7	46.7	50.0
11	EH-2429	24.7	47.2	61.1	44.3	69.1	70.0	83.0	74.1	15.9	9.5	22.7	16.0	40.0	54.7	47.7	47.4
12	EH-2432	27.4	54.4	60.4	47.4	70.1	72.1	83.0	75.1	16.2	9.7	23.1	16.3	42.3	56.0	54.7	51.0
13	EH-2416	24.7	43.9	60.4	43.0	70.7	64.4	83.0	72.7	16.5	9.8	22.0	16.1	42.3	58.0	47.0	49.1
14	EH-2417	28.8	46.7	61.1	45.5	69.8	63.4	83.3	72.2	16.1	9.7	22.1	15.9	41.0	58.7	46.0	48.6
15	EH-2424	24.3	46.7	57.6	42.9	68.9	75.3	83.2	75.8	16.1	9.7	21.0	15.6	40.3	55.3	44.3	46.7
16	EH-2425	25.3	41.7	60.4	42.5	70.8	70.9	83.1	74.9	16.1	9.8	22.9	16.2	39.7	58.0	47.0	48.2
17	EH-2583	27.1	54.4	59.0	46.9	70.1	69.9	83.1	74.4	16.1	9.3	21.0	15.4	41.3	57.3	47.0	48.6
18	EH-2584	27.1	43.9	63.9	45.0	70.2	73.9	82.4	75.5	15.5	9.8	22.2	15.8	40.3	60.3	47.7	49.4
19	EH-2585	26.0	43.9	60.4	43.4	68.3	72.2	83.0	74.5	15.6	9.5	22.9	16.0	40.7	55.7	46.7	47.7
20	WH-3074	26.7	51.1	61.8	46.6	68.4	72.2	82.4	74.3	16.4	9.9	21.6	16.0	41.7	57.3	44.7	47.9
21	WH-3076	26.0	43.3	59.7	43.0	66.1	78.1	83.1	75.8	16.0	9.8	20.9	15.6	41.3	58.0	43.7	47.7
22	WH-3073	28.5	46.1	61.1	45.2	69.1	70.5	83.1	74.2	16.8	9.4	21.7	16.0	40.7	55.0	45.7	47.1
23	WH-3069	26.7	45.0	58.3	43.4	67.7	68.9	82.8	73.1	16.3	9.7	21.1	15.7	40.7	56.3	48.0	48.3
24	WH-3071	26.0	53.3	60.4	46.6	69.3	80.2	82.0	77.2	16.1	9.5	22.2	15.9	42.7	53.3	46.0	47.3
25	WH-3072	26.4	47.2	60.4	44.7	68.8	76.2	82.4	75.8	16.0	9.8	21.0	15.6	40.7	57.7	44.7	47.7
26	WH-3070	23.6	46.1	61.8	43.8	67.6	72.7	82.9	74.4	15.9	9.4	21.0	15.4	41.0	53.7	45.7	46.8
27	WH-3075	25.7	45.6	59.0	43.4	69.4	76.4	83.0	76.2	16.5	10.1	20.9	15.8	40.7	59.3	43.7	47.9
CHECKS																	
28	Pratap QPM-1	25.7	40.0	61.1	42.3	71.1	70.0	83.0	74.7	16.0	9.8	22.1	15.9	40.0	61.0	46.0	49.0
29	Vivek Hybrid -21	26.4	48.3	61.8	45.5	68.3	73.9	83.1	75.1	15.8	9.4	21.0	15.4	41.0	54.0	45.0	46.7
30	Prakash	25.3	38.9	61.1	41.8	70.9	76.2	83.1	76.7	16.6	9.7	22.5	16.3	42.3	55.7	44.7	47.6
Loc. Mean		25.9	46.2	60.6	44.2	69.3	72.9	82.9	75.0	16.1	9.6	21.7	15.8	41.2	57.2	46.1	48.2
C.D. (5%)		3.08	11.90	2.63	4.88	1.77	11.52	0.57	4.15	0.50	0.87	0.64	0.77	2.34	4.95	1.28	2.95
C.V. (%)		7.28	15.75	2.66	6.75	1.56	9.67	0.42	3.39	1.91	5.53	1.80	2.98	3.48	5.30	1.69	3.75
F (Prob)		0.10	0.13	0.02	0.28	0.00	0.51	0.00	0.82	0.00	0.96	0.00	0.45	0.25	0.08	0.00	0.45

Table No. 31 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% SILKING				DAYS TO 75% DRY HUSK				PLANT HEIGHT(cm)				EAR HEIGHT(cm)			
		BANS	CHHI	UDAI	Mean	BANS	CHHI	UDAI	Mean	BANS	CHHI	UDAI	Mean	BANS	CHHI	UDAI	Mean
1	GWH-1216	44.3	61.3	48.0	51.2	72.0	81.0	78.3	77.1	191.7	123.3	208.3	174.4	94.0	58.3	120.0	90.8
2	GYH-1103	44.7	59.3	46.7	50.2	74.3	81.3	78.0	77.9	194.0	128.3	208.3	176.9	97.0	56.7	100.0	84.6
3	GWH-1257	44.3	57.7	46.0	49.3	62.7	78.0	78.3	73.0	191.7	110.0	201.7	167.8	95.3	53.3	95.0	81.2
4	GYH-0965	43.7	56.0	48.3	49.3	72.0	78.7	78.3	76.3	192.3	120.0	211.7	174.7	88.7	50.0	110.0	82.9
5	GWH-1005	46.3	59.7	49.3	51.8	73.7	80.3	79.3	77.8	182.0	135.0	213.3	176.8	92.0	65.0	100.0	85.7
6	GWC-0911	45.0	57.3	49.0	50.4	73.3	78.7	78.3	76.8	192.0	113.3	223.3	176.2	100.3	51.7	130.0	94.0
7	GWH-1214	42.7	58.0	46.7	49.1	73.3	77.3	77.3	76.0	187.0	113.3	208.3	169.6	85.3	53.3	113.3	84.0
8	GWC-0301	44.3	57.3	47.7	49.8	73.0	78.0	79.3	76.8	184.0	130.0	198.3	170.8	90.3	63.3	106.7	86.8
9	GWH-1001	43.7	59.7	45.3	49.6	72.7	79.3	77.3	76.4	190.3	125.0	198.3	171.2	87.3	65.0	101.7	84.7
10	GWH-QPM-0919	45.7	61.3	48.3	51.8	73.0	80.3	78.3	77.2	198.7	133.3	220.0	184.0	97.0	68.3	110.0	91.8
11	EH-2429	43.0	55.7	49.7	49.4	72.7	77.7	81.3	77.2	190.7	117.3	195.0	167.7	96.7	53.3	96.7	82.2
12	EH-2432	45.3	57.7	57.0	53.3	63.7	78.3	87.3	76.4	187.3	125.0	238.3	183.6	88.3	61.7	130.0	93.3
13	EH-2416	45.3	58.7	49.0	51.0	74.3	80.3	81.0	78.6	195.3	125.0	211.7	177.3	97.3	53.3	100.0	83.6
14	EH-2417	44.0	59.3	47.3	50.2	75.3	80.7	79.3	78.4	199.0	120.0	211.7	176.9	100.7	53.3	100.0	84.7
15	EH-2424	43.3	56.7	46.3	48.8	72.3	78.3	77.3	76.0	202.0	115.0	200.0	172.3	102.3	46.7	95.0	81.3
16	EH-2425	43.0	62.0	49.0	51.3	75.7	78.7	78.7	77.7	190.7	110.0	211.7	170.8	85.7	50.0	115.0	83.6
17	EH-2583	44.3	58.0	48.3	50.2	73.3	79.3	79.7	77.4	193.7	131.7	210.0	178.4	97.3	56.7	118.3	90.8
18	EH-2584	43.3	60.7	50.0	51.3	72.7	80.7	80.3	77.9	190.7	151.7	200.0	180.8	86.7	53.3	100.0	80.0
19	EH-2585	43.7	57.3	48.3	49.8	75.3	78.7	78.3	77.4	197.3	121.7	208.3	175.8	98.3	58.3	105.0	87.2
20	WH-3074	44.7	58.7	47.0	50.1	75.7	78.0	77.3	77.0	192.0	125.0	195.0	170.7	90.3	50.0	98.3	79.6
21	WH-3076	44.3	58.7	46.0	49.7	74.0	78.7	77.0	76.6	188.3	121.7	210.0	173.3	88.3	53.3	108.3	83.3
22	WH-3073	43.3	56.0	47.7	49.0	71.0	80.0	77.3	76.1	205.7	110.0	205.0	173.6	103.3	50.0	100.0	84.4
23	WH-3069	44.0	57.0	50.0	50.3	72.3	79.7	80.7	77.6	192.3	116.7	210.0	173.0	91.7	55.0	96.7	81.1
24	WH-3071	45.7	54.7	48.0	49.4	74.7	77.0	77.7	76.4	187.3	115.0	186.7	163.0	83.7	53.3	76.7	71.2
25	WH-3072	43.7	59.7	46.7	50.0	63.3	78.7	77.3	73.1	195.7	113.3	191.7	166.9	95.3	56.7	91.7	81.2
26	WH-3070	44.0	54.3	47.3	48.6	72.0	77.3	77.3	75.6	188.3	111.7	198.3	166.1	87.0	51.7	95.0	77.9
27	WH-3075	43.3	60.3	45.7	49.8	73.0	81.7	77.3	77.3	187.0	125.0	213.3	175.1	88.7	53.3	108.3	83.4
CHECKS																	
28	Pratap QPM-1	43.0	62.3	48.0	51.1	72.7	79.0	78.3	76.7	200.7	108.3	208.3	172.4	97.3	50.0	98.3	81.9
29	Vivek Hybrid -21	44.0	55.0	47.3	48.8	72.0	78.3	78.3	76.2	197.0	115.0	200.0	170.7	96.7	53.3	95.0	81.7
30	Prakash	45.3	57.0	46.7	49.7	74.3	79.0	78.3	77.2	186.7	126.7	211.7	175.0	87.0	61.7	110.0	86.2
Loc. Mean		44.2	58.2	48.0	50.1	72.3	79.1	78.8	76.7	192.4	121.2	206.9	173.5	93.0	55.3	104.2	84.2
C.D. (5%)		2.29	5.43	1.17	2.94	8.47	3.14	1.06	3.99	14.13	21.55	13.93	14.18	15.04	11.48	11.45	12.58
C.V. (%)		3.18	5.70	1.50	3.59	7.16	2.43	0.83	3.18	4.49	10.88	4.12	5.00	9.89	12.69	6.72	9.15
F (Prob)		0.19	0.23	0.00	0.40	0.25	0.22	0.00	0.78	0.28	0.08	0.00	0.56	0.37	0.04	0.00	0.34

TABLE No. 32 PERFORMANCE OF EXPERIMENTAL HYBRIDS AT BANSWARA, UDAIPUR IN ZONAL TRIAL No. ZT511 DURING KHARIF (2014)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								GRAIN YIELD % SUPERIORITY OVER								
		BANS		UDAI		ZN 5		OV'L		Seed Tech-2324			Pratap Makka-3			Pratap Hybrid Maize-3		
		R		R	MEAN	R	MEAN	R	BANS	UDAI	MEAN	BANS	UDAI	MEAN	BANS	UDAI	MEAN	
1	EH-2377	23	1266	17	7366	19	4316	19	-	-	-	6	54	45	-	-	-	
2	EH-2381	21	1310	28	5987	28	3648	28	-	-	-	10	25	22	-	-	-	
3	EH-2418	12	1470	9	8204	9	4837	9	10.8	10.7	10.7	23	72	62	-	5	3	
4	EH-2618	19	1324	7	8418	6	4871	6	-	13.6	11.5	11	76	63	-	7	4	
5	EH-2619	10	1484	1	9961	1	5722	1	11.9	34.4	31	25	109	92	-	27	22	
6	EH-2620	22	1278	29	5744	29	3511	29	-	-	-	7	20	18	-	-	-	
7	EH-2621	24	1255	2	9348	2	5302	2	-	26.1	21.3	5	96	78	-	19	13	
8	EH-2622	16	1343	3	9187	4	5265	4	1.3	23.9	20.5	13	92	77	-	17	12	
9	EH-2623	14	1359	24	6730	24	4044	24	2.5	-	-	14	41	36	-	-	-	
10	EH-2624	9	1484	27	6141	27	3813	27	11.9	-	-	25	29	28	-	-	-	
11	EH-2625	11	1478	15	7482	15	4480	15	11.5	0.9	2.5	24	57	50	-	-	-	
12	EH-2627	8	1493	14	7637	14	4565	13	12.6	3	4.5	25	60	53	-	-	-	
13	EH-2628	4	1589	22	6862	22	4226	21	19.8	-	-	33	44	42	1	-	-	
14	EH-2629	26	1221	21	7094	21	4158	23	-	-	-	3	49	39	-	-	-	
15	EH-2630	15	1348	10	8125	10	4736	11	1.6	9.6	8.4	13	70	59	-	4	1	
16	EH-2631	30	1173	6	8538	6	4856	7	-	15.2	11.1	-	79	63	-	9	3	
17	EH-2689	17	1329	13	7660	13	4494	14	0.2	3.3	2.9	12	60	51	-	-	-	
18	EH-2632	29	1187	5	8745	5	4966	5	-	18	13.7	-	83	67	-	12	6	
19	EH-2633	2	1599	18	7297	18	4448	16	20.6	-	1.8	34	53	49	2	-	-	
20	EH-2634	7	1503	23	6852	23	4178	22	13.3	-	-	26	44	40	-	-	-	
21	EH-2635	6	1520	20	7115	20	4317	18	14.6	-	-	28	49	45	-	-	-	
22	EH-2636	1	1781	4	8781	4	5281	3	34.3	18.5	20.9	50	84	77	13	12	12	
23	EH-2637	3	1594	11	7988	11	4791	10	20.2	7.8	9.6	34	67	61	1	2	2	
24	EH-2638	28	1191	26	6488	26	3839	26	-	-	-	-	36	29	-	-	-	
25	EH-2639	13	1371	19	7230	19	4300	20	3.3	-	-	15	51	44	-	-	-	
26	EH-2640	25	1242	25	6685	25	3964	25	-	-	-	4	40	33	-	-	-	
27	EH-2641	20	1318	8	8366	8	4842	8	-	12.9	10.8	11	75	62	-	7	3	

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								GRAIN YIELD % SUPERIORITY OVER								
		BANS		UDAI		ZN 5		OVL		Seed Tech-2324			Pratap Makka-3			Pratap Hybrid Maize-3		
		R	R	R	R	MEAN	R	MEAN	R	BANS	UDAI	MEAN	BANS	UDAI	MEAN	BANS	UDAI	MEAN
CHECKS																		
28	Seed Tech-2324	1326	18	7413	16	4370	17	4370	17	-	-	-	11	55	47	-	-	-
29	Pratap Makka-3	1191	27	4774	30	2983	30	2983	30	-	-	-	-	-	-	-	-	-
30	Pratap Hybrid Maize-3	1574	5	7834	12	4704	12	4704	12	18.7	5.7	7.7	32	64	58	-	-	-
Location Mean		1387		7535		4461		4461										
C.D. (5%)		365		813		589		589										
C.V. (%)		16.09		6.6		-		-										
F (Prob)		0.115		0														
Plot Size		9.6		4.8		-		-										
AGRONOMY DATA																		
Sowing Date		13-07		30-06		-		-										
Harvest Date		18-10		16-10		-		-										
Irrigation Nos		-		1		-		-										
Fertilizer Applied N		150		120		-		-										
Fertilizer Applied P		80		90		-		-										
Fertilizer Applied K		-		-		-		-										

Table No. 32 (Cont..)

S.No. PEDIGREE	STAND AT HARVEST ('000/ha)			GRAIN SHELLING %			MOISTURE % AT HARVEST			DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			
	BANS	UDAI	Mean	BANS	UDAI	Mean	BANS	UDAI	Mean	BANS	UDAI	Mean	BANS	UDAI	Mean	
1 EH-2377	26.0	59.7	42.9	65.8	80.5	73.1	17.3	21.4	19.4	43.7	54.7	49.2	46.7	55.7	51.2	
2 EH-2381	26.4	59.0	42.7	69.1	80.8	74.9	17.1	21.1	19.1	42.7	52.0	47.3	45.7	53.0	49.3	
3 EH-2418	23.6	63.2	43.4	68.4	80.2	74.3	16.4	20.5	18.4	42.0	50.0	46.0	45.3	51.0	48.2	
4 EH-2618	26.0	60.4	43.2	68.0	80.4	74.2	16.3	19.6	18.0	44.3	48.7	46.5	47.3	50.3	48.8	
5 EH-2619	25.7	63.9	44.8	68.3	81.2	74.7	17.0	21.8	19.4	43.0	51.7	47.3	46.3	53.7	50.0	
6 EH-2620	27.1	61.1	44.1	67.9	79.8	73.8	16.2	19.9	18.0	43.7	45.3	44.5	47.0	46.3	46.7	
7 EH-2621	26.4	62.5	44.4	68.7	80.9	74.8	16.4	19.4	17.9	44.0	52.3	48.2	47.3	54.3	50.8	
8 EH-2622	26.7	61.8	44.3	67.8	81.9	74.9	16.4	21.1	18.8	42.7	54.0	48.3	46.0	55.7	50.8	
9 EH-2623	26.0	47.9	37.0	68.6	80.3	74.4	16.3	16.2	16.3	43.7	52.3	48.0	46.3	54.3	50.3	
10 EH-2624	26.4	52.1	39.2	67.8	79.7	73.7	16.2	22.4	19.3	42.7	49.7	46.2	45.7	51.7	48.7	
11 EH-2625	25.3	55.6	40.5	65.8	80.5	73.1	17.0	19.6	18.3	43.3	51.3	47.3	46.7	54.7	50.7	
12 EH-2627	25.3	56.9	41.1	68.3	79.8	74.0	16.5	22.2	19.3	43.7	54.3	49.0	46.7	56.3	51.5	
13 EH-2628	23.6	61.8	42.7	69.2	79.8	74.5	16.1	20.8	18.4	44.3	50.7	47.5	47.7	52.3	50.0	
14 EH-2629	27.4	56.9	42.2	69.9	80.4	75.1	16.8	21.5	19.1	44.0	53.0	48.5	47.0	54.7	50.8	
15 EH-2630	24.3	59.0	41.7	69.3	79.9	74.6	16.2	22.2	19.2	43.0	49.7	46.3	46.0	53.3	49.7	
16 EH-2631	25.3	63.9	44.6	66.1	80.8	73.4	16.4	21.8	19.1	43.3	49.3	46.3	46.3	51.3	48.8	
17 EH-2689	27.4	59.7	43.6	65.7	83.9	74.8	15.9	16.6	16.2	41.7	44.3	43.0	45.3	45.3	45.3	
18 EH-2632	26.7	59.0	42.9	67.6	81.1	74.3	17.1	21.9	19.5	43.3	53.0	48.2	46.3	54.7	50.5	
19 EH-2633	27.4	50.7	39.1	65.3	80.1	72.7	16.7	19.2	17.9	44.3	53.3	48.8	47.7	54.7	51.2	
20 EH-2634	26.0	59.7	42.9	67.5	80.0	73.8	16.1	22.1	19.1	43.0	50.7	46.8	46.3	52.3	49.3	
21 EH-2635	24.0	62.5	43.2	68.9	79.7	74.3	17.0	23.1	20.0	43.7	51.3	47.5	46.7	53.3	50.0	
22 EH-2636	27.4	60.4	43.9	70.1	80.6	75.3	17.6	22.7	20.1	44.3	50.7	47.5	47.3	51.7	49.5	
23 EH-2637	26.7	57.6	42.2	66.2	81.6	73.9	16.6	20.7	18.6	43.0	53.7	48.3	46.7	55.0	50.8	
24 EH-2638	27.1	50.7	38.9	67.8	80.1	73.9	16.8	22.2	19.5	43.3	56.0	49.7	46.3	57.0	51.7	
25 EH-2639	26.0	54.2	40.1	68.5	78.8	73.6	16.2	20.3	18.3	45.7	55.7	50.7	49.3	57.7	53.5	
26 EH-2640	25.3	62.5	43.9	65.8	78.9	72.4	17.5	22.6	20.0	43.3	54.0	48.7	46.7	55.3	51.0	
27 EH-2641	27.1	52.8	39.9	67.7	80.2	73.9	17.1	20.2	18.6	45.7	56.7	51.2	48.3	58.7	53.5	
CHECKS																
28 Seed Tech-2324	26.0	63.2	44.6	70.3	80.3	75.3	16.9	21.2	19.0	42.7	56.3	49.5	45.7	57.7	51.7	
29 Pratap Makka-3	25.7	56.3	41.0	69.2	80.5	74.9	16.6	19.3	18.0	43.3	47.0	45.2	46.3	48.3	47.3	
30 Pratap Hybrid Maize-3	26.0	61.8	43.9	69.1	80.1	74.6	16.8	21.5	19.2	43.7	55.7	49.7	47.0	57.3	52.2	
Loc. Mean	26.0	58.6	42.3	67.9	80.4	74.2	16.6	20.8	18.7	43.5	51.9	47.7	46.7	53.6	50.1	
C.D. (5%)	2.83	4.84	7.03	2.61	0.38	2.71	0.72	0.37	2.15	2.18	1.09	4.16	2.18	1.14	4.32	
C.V. (%)	6.64	5.06	8.13	2.35	0.29	1.79	2.65	1.10	5.62	3.06	1.28	4.27	2.86	1.30	4.21	
F (Prob)	0.29	0.00	0.83	0.00	0.00	0.90	0.00	0.00	0.12	0.19	0.00	0.14	0.22	0.00	0.17	

Table No. 32 (Cont..)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK			PLANT HEIGHT(cm)			EAR HEIGHT(cm)		
		BANS	UDAI	Mean	BANS	UDAI	Mean	BANS	UDAI	Mean
1	EH-2377	82.3	90.3	86.3	200.0	221.7	210.8	100.7	111.7	106.2
2	EH-2381	82.7	86.7	84.7	185.7	225.0	205.3	85.0	121.7	103.3
3	EH-2418	79.7	89.0	84.3	190.3	226.7	208.5	94.0	106.7	100.3
4	EH-2618	81.0	86.0	83.5	199.0	221.7	210.3	102.7	115.0	108.8
5	EH-2619	82.3	89.7	86.0	196.7	221.7	209.2	98.3	108.3	103.3
6	EH-2620	80.7	79.7	80.2	190.0	203.3	196.7	92.0	106.7	99.3
7	EH-2621	80.3	87.7	84.0	177.0	216.7	196.8	80.3	115.0	97.7
8	EH-2622	81.3	84.0	82.7	193.7	226.7	210.2	93.7	145.0	119.3
9	EH-2623	80.7	88.3	84.5	190.3	218.3	204.3	94.0	138.3	116.2
10	EH-2624	80.3	82.3	81.3	189.0	195.0	192.0	90.3	111.7	101.0
11	EH-2625	83.0	85.7	84.3	197.0	213.3	205.2	92.0	103.3	97.7
12	EH-2627	82.7	87.7	85.2	192.0	215.0	203.5	92.0	100.0	96.0
13	EH-2628	81.7	85.7	83.7	194.0	245.0	219.5	93.3	120.0	106.7
14	EH-2629	83.0	90.0	86.5	192.0	195.0	193.5	92.0	98.3	95.2
15	EH-2630	81.3	84.7	83.0	180.3	208.3	194.3	85.3	105.0	95.2
16	EH-2631	80.3	86.3	83.3	182.3	220.0	201.2	85.3	125.0	105.2
17	EH-2689	78.0	80.3	79.2	197.3	201.7	199.5	98.7	105.0	101.8
18	EH-2632	82.0	86.3	84.2	185.7	206.7	196.2	85.3	91.7	88.5
19	EH-2633	83.7	87.3	85.5	197.0	228.3	212.7	95.3	121.7	108.5
20	EH-2634	80.7	85.3	83.0	189.0	220.0	204.5	87.0	115.0	101.0
21	EH-2635	81.0	88.3	84.7	183.7	231.7	207.7	82.0	103.3	92.7
22	EH-2636	83.0	88.0	85.5	183.7	216.7	200.2	87.3	120.0	103.7
23	EH-2637	82.3	88.3	85.3	195.7	203.3	199.5	93.3	118.3	105.8
24	EH-2638	80.7	86.3	83.5	185.0	206.7	195.8	85.0	101.7	93.3
25	EH-2639	83.3	89.3	86.3	198.7	210.0	204.3	100.7	110.0	105.3
26	EH-2640	81.7	86.3	84.0	185.3	201.7	193.5	84.0	101.7	92.8
27	EH-2641	84.0	90.7	87.3	188.3	238.3	213.3	93.7	125.0	109.3
CHECKS										
28	Seed Tech-2324	81.3	89.7	85.5	190.3	230.0	210.2	92.3	116.7	104.5
29	Pratap Makka-3	80.7	82.7	81.7	198.7	216.7	207.7	97.3	103.3	100.3
30	Pratap Hybrid Maize-3	82.7	89.3	86.0	181.7	228.3	205.0	82.3	115.0	98.7
Loc. Mean		81.6	86.7	84.2	190.3	217.1	203.7	91.2	112.7	101.9
C.D. (5%)		2.69	1.10	3.33	18.93	9.20	19.90	16.06	8.20	17.94
C.V. (%)		2.02	0.77	1.94	6.09	2.59	4.78	10.78	4.45	8.60
F (Prob)		0.02	0.00	0.01	0.63	0.00	0.48	0.33	0.00	0.30

TABLE No. 33 PERFORMANCE OF EXPERIMENTAL HYBRIDS AT UDAIPUR IN ZONAL TRIAL No. ZT512 DURING KHARIF (2014)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER		
		UDAI	ZN 5 R	BIO-9681 UDAI	Vivek Hybrid-21 UDAI	Pratap Hybrid Maize-3 UDAI
1	WH-2110	4357	9	4	24	16
2	WH-2111	3703	25	-	6	-
3	WH-1070	4091	14	-	17	9
4	WH-2106	3918	16	-	12	5
5	WH-2113	3753	21	-	7	0
6	WH-2103	3830	19	-	9	2
7	WH-2108	4336	10	4	24	16
8	WH-1069	4277	11	2	22	14
9	EH-2642	4096	13	-	17	9
10	EH-2643	3226	28	-	-	-
11	EH-2644	4586	4	9	31	22
12	EH-2645	3760	20	-	7	0
13	EH-2646	4547	5	9	30	21
14	EH-2647	3608	26	-	3	-
15	EH-2648	4405	8	5	26	18
16	EH-2649	3122	30	-	-	-
17	EH-2650	4435	7	6	26	18
18	EH-2651	3727	24	-	6	-
19	EH-2652	4532	6	8	29	21
20	WH-2105	3918	17	-	12	5
21	WH-2109	4754	3	14	36	27
22	WH-2112	4760	2	14	36	27
23	WH-2102	3132	29	-	-	-
24	WH-2107	3739	23	-	7	-
25	WH-1068	3919	15	-	12	5
26	WH-2101	3850	18	-	10	3
27	WH-2104	5770	1	38	65	54

SI No	GRAIN YIELD (kg/ha) AT 15% MOISTURE			GRAIN YIELD % SUPERIORITY OVER		
	PEDIGREE	UDAI	ZN 5 R	BIO-9681 UDAI	Vivek Hybrid-21 UDAI	Pratap Hybrid Maize-3 UDAI
CHECKS						
28	BIO-9681	4188	12	-	19	12
29	Vivek Hybrid-21	3507	27	-	-	-
30	Pratap Hybrid Maize-3	3746	22	-	7	-
Location Mean		4053				
C.D. (5%)		703				
C.V. (%)		10.6				
F (Prob)		0				
Plot Size		4.8				
AGRONOMY DATA						
Sowing Date		16-07				
Harvest Date		13-10				
Irrigation Nos		2				
Fertilizer Applied N		90				
Fertilizer Applied P		60				
Fertilizer Applied K		-				

TABLE No. 34 PERFORMANCE OF EXPERIMENTAL HYBRIDS AT UDAIPUR IN ZONAL TRIAL No. ZT513 DURING KHARIF (2014)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER		
		UDAI	R	Pratap makka-5 UDAI	Prakash UDAI	Bio-9637 UDAI
1	EH-2515	18829	2	57	59	40
2	EH-2522	15241	15	27	29	13
3	EH-2507	12093	27	1	2	-
4	EH-2504	13173	25	10	11	-
5	EH-2460	17160	8	43	45	28
6	EH-2481	12848	26	7	9	-
7	EH-2597	18311	3	53	55	36
8	EH-2598	17005	9	42	44	26
9	EH-2599	15764	13	32	33	17
10	EH-2600	17936	6	50	52	33
11	EH-2601	13997	21	17	18	4
12	EH-2602	14655	16	22	24	9
13	EH-2603	20840	1	74	76	55
14	EH-2604	16504	11	38	40	23
15	EH-2605	16911	10	41	43	26
16	EH-2606	13239	24	11	12	-
17	EH-2607	14468	18	21	22	8
18	EH-2608	18273	4	53	55	36
19	EH-2609	11742	30	-	-	-
20	EH-2610	14425	19	21	22	7
21	EH-2611	13906	22	16	18	3
22	EH-2612	15325	14	28	30	14
23	EH-2613	14029	20	17	19	4
24	EH-2614	18095	5	51	53	34
25	EH-2615	15811	12	32	34	17
26	EH-2616	17358	7	45	47	29
27	EH-2617	14644	17	22	24	9

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER		
		ZN 5		Pratap makka-5	Prakash	Bio-9637
		UDAI	R	UDAI	UDAI	UDAI
CHECKS						
28	Pratap makka-5	11967	28	-	1	-
29	Prakash	11817	29	-	-	-
30	Bio-9637	13458	23	12	14	-
Location Mean		15328				
C.D. (5%)		1231				
C.V. (%)		4.91				
F (Prob)		0				
Plot Size		2.4				
AGRONOMY DATA						
Sowing Date		4-07				
Harvest Date		19-10				
Irrigation Nos		1				
Fertilizer Applied N		120				
Fertilizer Applied P		90				
Fertilizer Applied K		-				

Table No. 34 (Cont..)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)	GRAIN SHELLING %	MOISTURE % AT HARVEST	DAYS TO 50% POLLEN SHED	DAYS TO 50% SILKING	DAYS TO 75% DRY HUSK	PLANT HEIGHT(cm)	EAR HEIGHT(cm)
		UDAI	UDAI	UDAI	UDAI	UDAI	UDAI	UDAI	UDAI
1	EH-2515	120.8	83.1	21.0	55.0	57.7	88.0	235.0	120.0
2	EH-2522	115.3	80.8	17.5	54.0	55.3	88.0	250.0	143.3
3	EH-2507	95.8	79.2	21.8	56.3	57.7	91.7	203.3	96.7
4	EH-2504	115.3	80.2	20.9	50.3	52.7	81.7	151.7	65.0
5	EH-2460	129.2	81.4	20.9	52.3	54.3	87.3	233.3	116.7
6	EH-2481	111.1	80.8	20.5	55.3	57.3	90.3	188.3	93.3
7	EH-2597	126.4	83.1	21.6	55.0	56.3	89.7	211.7	83.3
8	EH-2598	122.2	80.2	21.3	51.7	53.3	82.7	235.0	100.0
9	EH-2599	123.6	83.8	22.7	53.7	55.0	91.3	205.0	102.3
10	EH-2600	116.7	81.5	22.1	54.0	56.7	89.7	208.3	108.3
11	EH-2601	118.1	81.3	20.8	52.3	55.3	84.3	188.3	93.3
12	EH-2602	119.4	83.5	19.6	52.3	54.7	89.7	203.3	83.3
13	EH-2603	116.7	81.6	20.1	54.0	55.7	88.7	233.3	138.3
14	EH-2604	101.4	81.9	20.7	55.3	57.3	90.0	231.7	115.0
15	EH-2605	113.9	81.0	22.8	50.3	51.7	81.7	233.3	101.7
16	EH-2606	129.2	80.1	21.3	53.3	54.7	83.7	216.7	95.0
17	EH-2607	112.5	80.2	21.7	55.3	56.7	87.7	205.0	100.0
18	EH-2608	119.4	81.0	20.2	53.0	54.7	87.3	205.0	93.3
19	EH-2609	120.8	79.7	19.5	47.0	49.0	81.7	146.7	75.0
20	EH-2610	122.2	79.3	23.8	50.7	53.3	88.3	230.0	98.3
21	EH-2611	131.9	83.8	21.9	51.3	52.7	84.7	225.0	111.7
22	EH-2612	119.4	83.3	22.3	53.0	54.7	87.3	211.7	103.3
23	EH-2613	98.6	81.2	20.5	51.7	53.3	84.3	235.0	125.0
24	EH-2614	123.6	81.0	21.2	56.3	57.7	91.0	205.0	100.0
25	EH-2615	120.8	86.4	21.0	54.3	56.0	88.3	245.0	161.7
26	EH-2616	108.3	81.8	21.3	50.0	52.0	90.0	183.3	93.3
27	EH-2617	98.6	80.6	22.3	54.0	55.7	88.7	236.7	130.0
CHECKS									
28	Pratap makka-5	118.1	80.4	20.1	48.0	49.3	84.7	205.0	105.0
29	Prakash	112.5	80.1	21.2	46.3	48.3	84.7	186.7	88.3
30	Bio-9637	119.4	80.2	22.2	52.3	53.7	87.7	236.7	93.3
Loc. Mean		116.7	81.4	21.1	52.6	54.4	87.2	212.8	104.5
C.D. (5%)		10.95	0.87	0.55	1.39	1.13	1.15	7.24	18.67
C.V. (%)		5.74	0.65	1.59	1.62	1.27	0.80	2.08	10.94
F (Prob)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 35 **PERFORMANCE OF EXPERIMENTAL HYBRIDS AT UDAIPUR IN ZONAL TRIAL No. ZT514 DURING KHARIF (2014)**

Sl No	PEDIGREE	GRAINYIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER THE		
		ZN 5 UDAI	R	HM-9 UDAI	Pratap Hybrid Maize-3 UDAI	Prakash UDAI
1	WH-3087	2375	18	-	-	-
2	WH-3082	2242	23	-	-	-
3	WH-3093	2205	24	-	-	-
4	WH-3089	2372	20	-	-	-
5	WH-3088	2200	25	-	-	-
6	WH-3084	2781	11	11	14	-
7	WH-3081	2765	12	11	13	-
8	EH-2653	2044	27	-	-	-
9	EH-2654	3645	5	46	49	2
10	EH-2655	2245	22	-	-	-
11	EH-2656	1939	28	-	-	-
12	EH-2657	3919	3	57	61	9
13	WH-3077	2087	26	-	-	-
14	WH-3085	2725	13	9	12	-
15	WH-3084	2374	19	-	-	-
16	WH-3079	2852	10	14	17	-
17	EH-2658	4390	1	76	80	23
18	EH-2659	2453	16	-	1	-
19	EH-2660	4192	2	68	72	17
20	EH-2661	2549	14	2	5	-
21	EH-2662	3349	8	34	37	-
22	WH-3091	3283	9	31	35	-
23	WH-3086	1936	29	-	-	-
24	WH-3092	1776	30	-	-	-
25	Filler	3414	7	37	40	-
26	WH-3090	3687	4	47	51	3
27	WH-3083	2354	21	-	-	-

SI No	PEDIGREE	GRAINYIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER THE		
		ZN 5 UDAI	R	HM-9 UDAI	Pratap Hybrid Maize-3 UDAI	Prakash UDAI
CHECKS						
28	HM-9	2500	15	-	3	-
29	Pratap Hybrid Maize-3	2439	17	-	-	-
30	Prakash	3583	6	43	47	-
Location Mean		2756				
C.D. (5%)		490				
C.V. (%)		10.86				
F (Prob)		0				
Plot Size		4.8				
AGRONOMY DATA						
Sowing Date		16-07				
Harvest Date		31-10				
Irrigation Nos		2				
Fertilizer Applied N		90				
Fertilizer Applied P		60				
Fertilizer Applied K		-				

Table No. 35 (Cont..)

S.No. PEDIGREE	STAND AT	GRAIN	MOISTURE %	DAYS TO 50%	DAYS TO 50%	DAYS TO 75%	PLANT	EAR	
	HARVEST ('000/ha)	SHELLING %	AT HARVEST	POLLEN SHED	SILKING	DRY HUSK	HEIGHT(cm)	HEIGHT(cm)	
	UDAI	UDAI	UDAI	UDAI	UDAI	UDAI	UDAI	UDAI	
1 WH-3087	59.0	82.9	22.1	48.3	50.3	79.7	160.0	66.7	
2 WH-3082	57.6	82.9	23.0	47.3	49.0	80.3	190.0	86.7	
3 WH-3093	59.7	83.2	22.7	45.7	48.0	88.3	186.7	90.0	
4 WH-3089	56.9	83.0	22.3	49.3	51.3	80.7	160.0	71.7	
5 WH-3088	59.7	83.0	22.7	50.3	52.3	81.3	186.7	85.0	
6 WH-3084	59.7	83.1	22.8	48.3	50.3	79.7	168.3	81.7	
7 WH-3081	57.6	82.9	22.9	49.3	51.3	81.0	186.7	86.7	
8 EH-2653	59.0	83.0	22.7	55.7	57.3	88.7	186.7	85.0	
9 EH-2654	56.9	83.6	22.7	56.0	57.3	86.3	171.7	85.0	
10 EH-2655	59.0	83.0	23.0	56.0	57.7	85.7	170.0	81.7	
11 EH-2656	57.6	83.1	22.8	48.7	50.7	80.3	158.3	71.7	
12 EH-2657	56.9	83.1	23.0	55.0	57.0	86.3	173.3	80.0	
13 WH-3077	59.7	83.1	23.2	48.0	50.3	80.3	190.0	91.7	
14 WH-3085	56.9	84.0	22.9	49.0	51.0	80.7	170.0	76.7	
15 WH-3084	59.7	83.2	22.4	48.0	50.0	81.3	170.0	76.7	
16 WH-3079	57.6	83.1	22.2	53.3	55.3	86.3	186.7	81.7	
17 EH-2658	57.6	82.8	22.7	58.0	60.0	88.7	195.0	96.7	
18 EH-2659	59.0	82.9	22.9	55.3	57.3	86.3	180.0	90.0	
19 EH-2660	57.6	83.3	23.0	55.3	57.3	86.7	168.3	73.3	
20 EH-2661	56.9	83.1	21.8	58.0	60.0	87.7	183.3	85.0	
21 EH-2662	57.6	82.9	22.7	54.3	56.3	87.3	178.3	86.7	
22 WH-3091	56.3	82.9	23.0	55.3	57.7	86.0	170.0	88.3	
23 WH-3086	57.6	83.0	22.8	55.0	56.7	86.3	156.7	68.3	
24 WH-3092	58.3	82.9	22.9	51.3	53.3	83.3	175.0	80.0	
25 Filler	59.7	83.2	22.7	54.0	56.0	85.7	176.7	88.3	
26 WH-3090	59.0	83.0	22.3	49.0	51.0	83.0	183.3	83.3	
27 WH-3083	57.6	83.3	23.1	47.7	49.7	80.3	150.0	73.3	
CHECKS									
28 HM-9	57.6	82.9	23.0	54.0	56.3	85.7	163.3	75.0	
29 Pratap Hybrid Maize-3	57.6	82.7	23.2	54.0	56.3	86.7	196.7	105.0	
30 Prakash	59.0	82.8	23.2	51.0	53.0	82.3	148.3	60.0	
Loc. Mean	58.2	83.0	22.7	52.0	54.0	84.1	174.7	81.7	
C.D. (5%)	2.25	0.61	0.59	1.26	1.19	1.04	9.70	10.29	
C.V. (%)	2.36	0.45	1.59	1.48	1.35	0.76	3.40	7.70	
F (Prob)	0.03	0.08	0.00	0.00	0.00	0.00	0.00	0.00	

TABLE No. 36 PERFORMANCE OF EXPERIMENTAL HYBRIDS AT BANSWARA, UDAIPUR IN ZONAL TRIAL No. ZTQ01 DURING KHARIF (2014)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						GRAIN YIELD % SUPERIORITY OVER THE								
		ZNS			Vivek QPM-9			HQPM-1			Pratap QPM-1					
		BANS	R	UDAI	R	MEAN	R	BANS	UDAI	MEAN	BANS	UDAI	MEAN	BANS	UDAI	MEAN
1	EHQ-321	1280	6	6822	7	4051	7	12	58	49	-	-	-	7	-	-
2	EHQ-322	1267	8	5821	9	3544	9	11	35	30	-	-	-	6	-	-
3	EHQ-323	1469	2	7460	2	4465	1	28	73	64	14	2	4	22	0	3
4	EHQ-324	1315	4	5154	12	3234	11	15	20	19	2	-	-	10	-	-
5	EHQ-325	1141	12	6751	8	3946	8	-	57	45	-	-	-	-	-	-
6	EHQ-326	1268	7	5735	10	3501	10	11	33	29	-	-	-	6	-	-
7	EHQ-327	1191	10	7477	1	4334	3	4	74	59	-	3	1	-	0	0
8	EHQ-328	1502	1	7211	5	4357	2	31	68	60	17	-	2	25	-	1
9	ECQ-03	1065	13	5173	11	3119	12	-	20	15	-	-	-	-	-	-
10	EHQ-63	1456	3	7189	6	4322	5	27	67	59	13	-	1	21	-	-
CHECKS																
11	Vivek QPM-9	1143	11	4304	13	2724	13	-	-	-	-	-	-	-	-	-
12	HQPM-1	1287	5	7292	4	4290	6	13	69	57	-	-	-	7	-	-
13	Pratap QPM-1	1199	9	7448	3	4324	4	5	73	59	-	2	1	-	-	-
Location Mean		1276		6449		3862										
C.D. (5%)		313		752		532										
C.V. (%)		14.53		6.9		-										
F (Prob)		0.131		0												
Plot Size		9.6		4.8		-										
AGRONOMY DATA																
Sowing Date		13-07		1-07		-										
Harvest Date		18-10		17-10		-										
Irrigation Nos		-		2		-										
Fertilizer Applied N		150		120		-										
Fertilizer Applied P		80		90		-										
Fertilizer Applied K		-		-		-										

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Table No. 36 (Cont..)

S.No.	PEDIGREE	STAND AT HARVEST (⁰⁰⁰ /ha)			GRAIN SHELLING %			MOISTURE % AT HARVEST			DAYS TO 50% POLLEN SHED		
		BANS	UDAI	Mean	BANS	UDAI	Mean	BANS	UDAI	Mean	BANS	UDAI	Mean
1	EHQ-321	24.7	62.5	43.6	68.7	80.6	74.6	17.1	20.0	18.5	43.7	51.0	47.3
2	EHQ-322	24.3	53.5	38.9	67.8	80.9	74.3	16.7	20.3	18.5	45.0	51.0	48.0
3	EHQ-323	24.3	60.4	42.4	68.6	82.2	75.4	16.9	20.9	18.9	43.3	52.0	47.7
4	EHQ-324	25.7	46.5	36.1	67.7	80.2	73.9	16.6	19.3	17.9	43.3	47.7	45.5
5	EHQ-325	27.8	50.7	39.2	70.0	80.2	75.1	16.8	19.8	18.3	45.3	49.7	47.5
6	EHQ-326	25.7	46.5	36.1	67.8	80.2	74.0	16.8	20.0	18.4	43.7	54.0	48.8
7	EHQ-327	28.5	52.8	40.6	68.1	80.8	74.4	15.9	20.0	17.9	44.7	49.7	47.2
8	EHQ-328	26.0	50.7	38.4	68.0	80.0	74.0	17.0	20.0	18.5	43.7	53.0	48.3
9	ECQ-03	27.4	61.8	44.6	67.8	79.9	73.9	16.4	18.3	17.4	45.0	52.0	48.5
10	EHQ-63	28.5	53.5	41.0	70.2	80.2	75.2	16.5	20.7	18.6	45.0	48.0	46.5
CHECKS													
11	Vivek QPM-9	27.8	38.9	33.3	66.6	79.8	73.2	16.6	19.0	17.8	44.3	47.0	45.7
12	HQPM-1	26.7	40.3	33.5	69.2	80.8	75.0	16.2	20.0	18.1	44.3	53.0	48.7
13	Pratap QPM-1	28.5	52.1	40.3	68.3	80.1	74.2	16.2	19.9	18.0	43.3	48.0	45.7
Loc. Mean		26.6	51.5	39.1	68.3	80.4	74.4	16.6	19.8	18.2	44.2	50.5	47.3
C.D. (5%)		3.73	5.86	12.26	1.61	0.53	1.64	0.56	0.60	1.10	2.77	0.47	3.84
C.V. (%)		8.32	6.74	14.40	1.40	0.39	1.01	2.00	1.81	2.78	3.73	0.55	3.72
F (Prob)		0.18	0.00	0.65	0.01	0.00	0.29	0.00	0.00	0.31	0.82	0.00	0.58
S.No.	PEDIGREE	DAYS TO 50% SILKING			DAYS TO 75% DRY HUSK			PLANT HEIGHT(cm)			EAR HEIGHT(cm)		
		BANS	UDAI	Mean	BANS	UDAI	Mean	BANS	UDAI	Mean	BANS	UDAI	Mean
1	EHQ-321	46.7	53.3	50.0	80.7	85.3	83.0	166.7	181.7	174.2	71.7	86.7	79.2
2	EHQ-322	48.0	52.3	50.2	79.7	83.7	81.7	175.3	180.0	177.7	71.7	76.7	74.2
3	EHQ-323	47.0	53.3	50.2	79.0	84.7	81.8	170.0	195.0	182.5	67.0	91.7	79.3
4	EHQ-324	46.3	49.3	47.8	79.0	82.7	80.8	172.3	193.3	182.8	73.3	100.0	86.7
5	EHQ-325	48.3	51.7	50.0	80.0	82.7	81.3	173.7	195.0	184.3	73.0	95.0	84.0
6	EHQ-326	46.7	55.7	51.2	80.3	85.7	83.0	167.0	228.3	197.7	73.3	120.0	96.7
7	EHQ-327	47.0	51.3	49.2	80.0	84.3	82.2	167.3	220.0	193.7	67.3	100.0	83.7
8	EHQ-328	46.7	54.7	50.7	79.3	85.7	82.5	167.0	208.3	187.7	67.0	100.0	83.5
9	ECQ-03	48.0	54.7	51.3	79.3	84.7	82.0	175.3	185.0	180.2	70.3	96.7	83.5
10	EHQ-63	48.0	49.7	48.8	80.7	83.3	82.0	176.7	195.0	185.8	75.0	100.0	87.5
CHECKS													
11	Vivek QPM-9	47.3	48.7	48.0	80.0	82.7	81.3	170.0	178.3	174.2	68.7	60.0	64.3
12	HQPM-1	47.3	54.3	50.8	81.7	85.3	83.5	170.7	208.3	189.5	68.3	95.0	81.7
13	Pratap QPM-1	46.3	50.0	48.2	79.0	82.7	80.8	167.0	190.0	178.5	70.0	90.0	80.0
Loc. Mean		47.2	52.2	49.7	79.9	84.1	82.0	170.7	196.8	183.7	70.5	93.2	81.9
C.D. (5%)		2.74	1.01	3.73	3.02	1.15	1.86	7.41	7.65	26.69	8.05	7.69	20.85
C.V. (%)		3.44	1.15	3.44	2.24	0.81	1.04	2.58	2.31	6.67	6.77	4.90	11.69
F (Prob)		0.87	0.00	0.51	0.83	0.00	0.14	0.06	0.00	0.75	0.50	0.00	0.37

TABLE No. 37

**PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS OF 2013 KHARIF
EXPERIMENT AND PLANTED IN 2014 KHARIF AT SRINAGAR IN IVT TRIAL No. 62 DURING
KHARIF (2013)**

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER		
		SRIN	ZN 1 R	PMH4 SRIN	BIO9637 SRIN	HM12 SRIN
1	QMH-29134	5505	81	-	-	-
2	QMH-2916	5692	80	-	-	-
3	EHL-3412	6807	26	-	-	17.8
4	EHL-1111	6884	25	-	-	19.2
5	EHL-3512	6501	44	-	-	12.5
6	S-6750	5857	74	-	-	1.4
7	RMH-932	6076	62	-	-	5.2
8	RMH-3591	5868	73	-	-	1.6
9	PHM-34(W)	6015	65	-	-	4.1
10	PHM-12(Y)	6172	57	-	-	6.8
11	LG-3271	6202	55	-	-	7.4
12	LG-3282	6113	61	-	-	5.8
13	FCH-85	6520	42	-	-	12.9
14	FCH-184	6363	46	-	-	10.2
15	FCH-11231	6288	50	-	-	8.9
16	KMH-6	5874	72	-	-	1.7
17	KMH-84	5753	78	-	-	-
18	KMH-6681	6188	56	-	-	7.1
19	KMH-5951	6286	51	-	-	8.8
20	JKMH-4545	6210	54	-	-	7.5
21	SAFAL X-2	5993	66	-	-	3.8
22	Kuber Shakthi	6337	47	-	-	9.7
23	DAS-MH-304	6930	23	-	-	20
24	DAS-MH-305	6771	30	-	-	17.2
25	KH-517 Gold	6804	27	-	-	17.8
26	KH-2248	6554	41	-	-	13.5
27	TH-38	6690	34	-	-	15.8
28	MAHABEEJ-1202(Nirdhar)	6787	29	-	-	17.5
29	KDMH-2705	7146	17	-	-	23.7
30	EH-2205	6965	22	-	-	20.6
31	EH-2208	7073	20	-	-	22.5
32	EH-2240	8225	8	-	-	42.4

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SI No	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER			
	PEDIGREE	SRIN	ZN 1 R	PMH4 SRIN	BIO9637 SRIN	HM12 SRIN
33	VaMH-08015	7457	15	-	-	29.1
34	PMH-209	6726	33	-	-	16.4
35	PRMH-2177	5800	76	-	-	0.4
36	NMH-1289	5490	82	-	-	-
37	HTMH-5402	5026	87	-	-	-
38	CMH 10-488	5370	84	-	-	-
39	CMH 10-547	6330	49	-	-	9.6
40	CMH 11-582	6126	59	-	-	6.1
41	CMH 11-603	6246	53	-	-	8.1
42	CMH 11-617	5907	70	-	-	2.3
43	IM8478	5943	69	-	-	2.9
44	IM8479	6048	63	-	-	4.7
45	IM8581	6034	64	-	-	4.5
46	IM 7519	6592	37	-	-	14.1
47	IM 7501	6582	38	-	-	13.9
48	BH 41015	7132	18	-	-	23.5
49	BH 41030	6636	36	-	-	14.9
50	BH 41145	6745	32	-	-	16.8
51	BH 41150	6984	21	-	-	20.9
52	BH 411736	8081	9	-	-	39.9
53	BH 411737	8488	4	-	2.6	47
54	BH 411520	8302	6	-	0.3	43.7
55	VEH 12-1	8500	3	-	2.7	47.2
56	X35D620	8756	2	-	5.8	51.6
57	X35D623	6796	28	-	-	17.7
58	X35D602	7287	16	-	-	26.2
59	X35D603	7470	14	-	-	29.3
60	Bio 451	7090	19	-	-	22.7
61	GWH-0711	6121	60	-	-	6
62	REH-2012-1	6279	52	-	-	8.7
63	REH-2012-2	5984	67	-	-	3.6
64	REH-2012-4	6366	45	-	-	10.2
65	JH 31595	6337	48	-	-	9.7
66	JH 31537	6745	31	-	-	16.8
67	JH 31604	6556	40	-	-	13.5

SI No	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER			
	PEDIGREE	SRIN	ZN 1 R	PMH4 SRIN	BIO9637 SRIN	HM12 SRIN
68	JH 31600(JH 31627)	6508	43	-	-	12.7
69	JH 31244	6673	35	-	-	15.5
70	JH 31554	5978	68	-	-	3.5
71	AH-1226	6171	58	-	-	6.8
72	AH-1262	5303	85	-	-	-
73	MMH-2-12-13	5852	75	-	-	1.3
74	MMH-3-12-13	5428	83	-	-	-
75	MMH-4-12-13	5248	86	-	-	-
76	MMH-5-12-13	5698	79	-	-	-
77	HKH 338	5899	71	-	-	2.1
78	HKH 339	7777	12	-	-	34.6
79	HKH 340	7979	11	-	-	38.1
80	KNMH-4302	7652	13	-	-	32.5
81	KNMH-4303	6903	24	-	-	19.5
82	KNMH-4304	6580	39	-	-	13.9
83	KNMH-4305	8031	10	-	-	39
84	KNMH-4010131	8469	5	-	2.3	46.6
CHECKS						
85	PMH4	10921	1	-	32	89.1
86	BIO9637	8276	7	-	-	43.3
87	HM12	5776	77	-	-	-
Location Mean		6631				
C.D. (5%)		2301				
C.V. (%)		21.53				
F (Prob)		0.052				
Plot Size		4.8				
AGRONOMY DATA						
Sowing Date		1-05				
Harvest Date		3-11				
Irrigation Nos		3				
Fertilizer Applied N		90				
Fertilizer Applied P		60				
Fertilizer Applied K		40				

Table No. 37 (Cont..)

S.No.	PEDIGREE	STAND AT	GRAIN	MOISTURE %	DAYS TO 50%	DAYS TO	DAYS TO 75%	PLANT	EAR
		HARVEST ('000/ha)	SHELLING %	AT HARVEST	POLLEN SHED	50% SILKING	DRY HUSK	HEIGHT(cm)	HEIGHT(cm)
		SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
1	QMH-29134	79.9	78.3	25.5	100.0	102.3	156.0	205.0	106.7
2	QMH-2916	82.6	78.3	24.5	101.7	103.7	157.3	208.3	120.0
3	EHL-3412	82.6	78.3	22.5	100.7	102.7	161.3	203.3	115.0
4	EHL-1111	82.6	78.0	22.0	98.3	101.0	156.7	195.0	106.7
5	EHL-3512	82.6	78.3	21.5	94.0	96.0	151.7	200.0	105.0
6	S-6750	83.3	78.5	22.5	94.0	97.0	147.7	203.3	111.7
7	RMH-932	83.3	78.5	22.5	96.0	99.0	153.7	208.3	115.0
8	RMH-3591	83.3	78.5	22.5	97.3	99.3	157.3	210.0	113.3
9	PHM-34(W)	82.6	78.5	24.5	98.0	100.3	158.7	198.3	103.3
10	PHM-12(Y)	83.3	78.5	22.0	94.7	96.7	152.0	198.3	106.7
11	LG-3271	83.3	78.3	22.0	95.3	97.7	150.7	201.7	110.0
12	LG-3282	81.9	77.8	23.0	93.0	98.7	151.0	221.7	120.0
13	FCH-85	83.3	77.3	22.0	95.0	97.0	155.0	230.0	128.3
14	FCH-184	81.3	78.3	22.5	97.0	98.7	158.0	221.7	130.0
15	FCH-11231	83.3	78.0	22.5	96.7	98.7	155.7	203.3	121.7
16	KMH-6	81.9	77.3	23.0	97.7	99.7	158.0	195.0	106.7
17	KMH-84	80.6	78.0	22.5	97.0	99.0	157.3	210.0	110.0
18	KMH-6681	82.6	77.8	21.0	97.0	99.0	156.0	198.3	96.7
19	KMH-5951	83.3	78.0	20.5	95.7	98.7	156.3	210.0	106.7
20	JKMH-4545	81.9	78.5	20.5	94.0	96.3	150.7	203.3	105.0
21	SAFAL X-2	83.3	78.5	24.5	98.7	101.0	151.7	211.7	115.0
22	Kuber Shakthi	83.3	78.0	26.5	99.7	101.7	153.0	181.7	103.3
23	DAS-MH-304	83.3	78.0	25.0	101.3	103.7	156.3	188.3	108.3
24	DAS-MH-305	82.6	78.0	25.5	99.7	102.0	160.3	188.3	103.3
25	KH-517 Gold	82.6	78.3	23.0	96.7	99.0	154.3	193.3	108.3
26	KH-2248	81.9	78.5	21.5	96.3	98.3	156.0	196.7	110.0
27	TH-38	82.6	78.3	25.0	97.0	99.0	156.0	206.7	118.3
28	MAHABEEJ-1202(Nirdhar)	81.9	77.8	25.0	98.3	100.7	160.3	201.7	111.7
29	KDMH-2705	82.6	78.3	23.5	96.7	98.7	157.7	205.0	111.7
30	EH-2205	83.3	78.5	23.5	96.3	98.3	157.0	211.7	116.7
31	EH-2208	82.6	77.8	23.5	96.0	98.3	157.0	211.7	111.7
32	EH-2240	81.9	78.0	22.5	96.0	98.3	156.3	218.3	110.0
33	VaMH-08015	82.6	78.0	24.0	96.3	98.3	157.0	216.7	101.7
34	PMH-209	81.3	78.8	25.0	97.7	99.7	156.7	203.3	101.7

S.No. PEDIGREE	STAND AT	GRAIN	MOISTURE %	DAYS TO 50%	DAYS TO	DAYS TO 75%	PLANT	EAR
	HARVEST ('000/ha)	SHELLING %	AT HARVEST	POLLEN SHED	50% SILKING	DRY HUSK	HEIGHT(cm)	HEIGHT(cm)
	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
35 PRMH-2177	81.9	79.3	21.5	97.3	99.7	155.3	210.0	105.0
36 NMH-1289	81.9	78.8	21.5	97.0	99.3	155.3	215.0	115.0
37 HTMH-5402	81.3	77.8	25.0	98.0	100.0	158.0	226.7	125.0
38 CMH 10-488	80.6	77.8	23.5	97.7	100.3	159.0	223.3	121.7
39 CMH 10-547	83.3	78.3	24.0	98.0	100.3	159.0	220.0	116.7
40 CMH 11-582	79.9	78.8	24.5	96.3	98.3	155.3	220.0	108.3
41 CMH 11-603	81.3	78.8	22.5	99.0	101.3	158.0	231.7	116.7
42 CMH 11-617	82.6	78.8	23.0	99.3	101.3	157.3	220.0	113.3
43 IM8478	81.9	78.5	24.5	102.0	104.0	160.7	230.0	126.7
44 IM8479	82.6	78.5	23.0	102.3	104.3	160.7	226.7	123.3
45 IM8581	81.9	78.8	21.5	104.0	106.0	160.7	221.7	123.3
46 IM 7519	83.3	78.5	19.5	99.7	101.7	156.0	198.3	105.0
47 IM 7501	81.9	78.5	18.5	100.0	102.3	156.7	193.3	106.7
48 BH 41015	82.6	78.5	20.5	96.3	99.0	156.7	200.0	110.0
49 BH 41030	82.6	78.5	20.5	97.0	99.0	158.0	203.3	111.7
50 BH 41145	82.6	78.3	19.0	97.0	99.7	157.7	203.3	108.3
51 BH 41150	81.9	78.3	22.0	97.3	99.3	156.7	206.7	113.3
52 BH 411736	82.6	77.8	22.5	97.0	99.3	157.3	213.3	111.7
53 BH 411737	82.6	78.0	20.5	97.0	99.7	157.7	216.7	118.3
54 BH 411520	81.9	78.0	23.0	97.0	99.0	158.0	203.3	105.0
55 VEH 12-1	81.9	77.5	22.0	96.7	99.3	158.3	215.0	116.7
56 X35D620	83.3	77.8	21.5	96.0	99.0	159.3	210.0	111.7
57 X35D623	83.3	77.8	23.5	97.7	99.7	159.7	208.3	111.7
58 X35D602	81.9	77.3	22.0	97.7	100.0	158.0	188.3	98.3
59 X35D603	81.9	77.5	22.0	97.7	100.0	158.0	191.7	96.7
60 Bio 451	83.3	77.8	23.5	98.3	100.7	158.7	200.0	106.7
61 GWH-0711	81.3	77.5	26.0	100.7	102.7	162.3	191.7	103.3
62 REH-2012-1	82.6	77.5	24.5	100.7	103.0	162.7	205.0	110.0
63 REH-2012-2	83.3	77.8	23.0	98.7	101.0	163.3	200.0	106.7
64 REH-2012-4	82.6	77.3	25.5	98.3	104.0	164.0	203.3	111.7
65 JH 31595	82.6	77.5	25.5	100.7	103.0	164.0	198.3	110.0
66 JH 31537	82.6	78.5	22.5	101.7	103.7	164.0	196.7	111.7
67 JH 31604	83.3	78.0	23.0	100.7	103.0	160.7	201.7	111.7
68 JH 31600(JH 31627)	83.3	78.0	23.5	101.0	103.3	159.7	196.7	106.7
69 JH 31244	83.3	78.0	24.5	100.3	102.3	159.7	208.3	111.7

BR346

S.No. PEDIGREE	STAND AT	GRAIN	MOISTURE %	DAYS TO 50%	DAYS TO	DAYS TO 75%	PLANT	EAR
	HARVEST ('000/ha)	SHELLING %	AT HARVEST	POLLEN SHED	50% SILKING	DRY HUSK	HEIGHT(cm)	HEIGHT(cm)
	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
70 JH 31554	81.9	78.0	27.0	102.0	104.3	163.7	190.0	103.3
71 AH-1226	83.3	77.8	27.0	100.7	102.7	162.7	188.3	100.0
72 AH-1262	81.3	78.8	23.0	98.0	100.3	158.3	186.7	98.3
73 MMH-2-12-13	83.3	79.3	23.0	96.0	98.0	157.7	181.7	101.7
74 MMH-3-12-13	83.3	78.8	24.0	97.3	100.0	158.3	188.3	101.7
75 MMH-4-12-13	81.9	78.5	26.0	101.3	103.3	162.3	191.7	101.7
76 MMH-5-12-13	82.6	78.3	24.0	100.7	103.0	158.7	198.3	98.3
77 HKH 338	82.6	79.0	21.5	97.7	99.7	152.7	193.3	98.3
78 HKH 339	81.9	78.8	23.0	93.0	95.3	148.0	198.3	105.0
79 HKH 340	81.9	77.5	22.5	93.0	95.3	153.0	215.0	115.0
80 KNMH-4302	83.3	77.5	25.0	96.0	98.3	158.7	210.0	108.3
81 KNMH-4303	83.3	78.0	21.5	97.3	99.7	158.3	211.7	108.3
82 KNMH-4304	83.3	78.0	25.0	98.3	100.3	160.0	218.3	110.0
83 KNMH-4305	83.3	78.3	24.5	96.3	98.7	159.7	203.3	100.0
84 KNMH-4010131	83.3	78.0	21.5	97.0	99.3	158.3	205.0	118.3
CHECKS								
85 PMH4	83.3	78.5	20.0	94.0	97.0	154.5	220.0	135.0
86 BIO9637	83.3	78.5	22.0	99.0	101.5	159.5	240.0	137.5
87 HM12	81.3	78.8	23.0	96.5	98.5	154.5	230.0	117.5
Loc. Mean	82.5	78.2	23.0	97.8	100.1	157.4	206.1	110.8
C.D. (5%)	2.02	0.71	3.25	7.33	7.22	11.34	44.45	26.43
C.V. (%)	1.52	0.56	8.76	4.65	4.47	4.47	13.38	14.80
F (Prob)	0.05	0.00	0.00	0.92	0.94	0.97	1.00	0.91

TABLE No. 38 PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS OF 2013 KHARIF EXPERIMENT AND PLANTED IN 2014 KHARIF AT SRINAGAR IN IVT TRIAL No. 63 DURING KHARIF (2013)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER THE		
		ZN 1 SRIN	R	PMH 5 SRIN	Prakash SRIN	Bio 9720 SRIN
1	LG-3181	5199	26	-	-	-
2	DMH-63	5435	20	1	-	-
3	DH-264	5451	19	1	-	-
4	DH-265	5232	23	-	-	-
5	FH-3664	5531	15	3	-	-
6	FH-3669	5499	16	2	-	-
7	B-52	4973	30	-	-	-
8	EH-2211	5475	18	2	-	-
9	EH-2214	5061	28	-	-	-
10	EH-2233	5613	14	4	-	-
11	NMH-1258	7184	9	33	15	13
12	CMH 11-579	4974	29	-	-	-
13	CMH 11-595	5212	24	-	-	-
14	CMH 11-611	7335	8	36	18	16
15	CMH 11-626	7823	3	45	26	23
16	CMH 11-629	7578	7	41	22	20
17	BH 411305	5207	25	-	-	-
18	GWH-0712	5126	27	-	-	-
19	GWH-0902	5486	17	2	-	-
20	GYH-0653	7099	10	32	14	12
21	JH 31610	7028	11	30	13	11
22	JH 31613	7775	4	44	25	23
23	AH-1261	7726	5	43	24	22
24	AH-1219	5232	22	-	-	-
25	MEH-1-12-13	7610	6	41	22	20
26	HKH 341	9109	2	69	46	44

Sl No	GRAIN YIELD (kg/ha) AT 15% MOISTURE			GRAIN YIELD % SUPERIORITY OVER THE		
	ZN 1 SRIN	R	PMH 5 SRIN	Prakash SRIN	Bio 9720 SRIN	
27	KNMH-4301	9529	1	77	53	50
	CHECKS					
28	PMH 5	5392	21	-	-	-
29	Prakash	6222	13	15	-	-
30	Bio 9720	6341	12	18	2	-
	Location Mean	6282				
	C.D. (5%)	424				
	C.V. (%)	4.13				
	F (Prob)	0				
	Plot Size	4.8				
	AGRONOMY DATA					
	Sowing Date	29-04				
	Harvest Date	29-10				
	Irrigation Nos	3				
	Fertilizer Applied N	90				
	Fertilizer Applied P	60				
	Fertilizer Applied K	40				

Table No. 38 (Cont..)

S.No.	PEDIGREE	STAND AT	GRAIN	MOISTURE %	DAYS TO 50%	DAYS TO 50%	DAYS TO 75%	PLANT	EAR
		HARVEST ('000/ha)	SHELLING %	AT HARVEST	POLLEN SHED	SILKING	DRY HUSK	HEIGHT(cm)	HEIGHT(cm)
		SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
1	LG-3181	81.9	79.8	22.5	86.0	88.3	140.0	180.0	95.0
2	DMH-63	83.3	77.0	25.5	95.7	98.0	159.3	185.0	101.7
3	DH-264	81.9	78.8	21.5	93.3	95.7	147.0	155.0	91.7
4	DH-265	81.3	78.3	20.5	91.7	94.0	156.3	200.0	105.0
5	FH-3664	82.6	78.3	22.0	97.3	96.0	158.0	190.0	96.7
6	FH-3669	81.9	77.3	25.5	93.0	95.3	159.7	195.0	101.7
7	B-52	80.6	77.0	25.0	94.0	96.3	154.7	191.7	96.7
8	EH-2211	83.3	78.3	21.0	94.3	97.0	151.3	216.7	101.7
9	EH-2214	82.6	77.8	25.5	95.0	97.7	158.0	213.3	103.3
10	EH-2233	81.3	76.3	25.5	96.3	98.7	159.7	191.7	96.7
11	NMH-1258	81.9	78.8	24.0	92.7	95.3	156.0	196.7	100.0
12	CMH 11-579	82.6	78.0	30.0	101.7	103.7	164.7	208.3	120.0
13	CMH 11-595	82.6	77.3	30.0	101.7	104.0	164.3	181.7	108.3
14	CMH 11-611	81.9	77.8	24.5	100.0	102.3	165.0	203.3	111.7
15	CMH 11-626	83.3	78.8	23.0	100.0	102.7	161.7	195.0	118.3
16	CMH 11-629	83.3	78.3	23.5	101.0	103.3	163.0	195.0	113.3
17	BH 411305	81.3	78.0	21.0	88.0	90.7	147.7	143.3	76.7
18	GWH-0712	81.3	78.3	22.5	92.7	95.0	150.0	196.7	108.3
19	GWH-0902	81.9	78.3	19.0	92.0	94.3	148.7	196.7	101.7
20	GYH-0653	83.3	78.3	19.5	91.0	93.3	149.0	203.3	126.7
21	JH 31610	83.3	77.3	29.5	92.7	95.3	164.0	213.3	108.3
22	JH 31613	82.6	78.0	23.0	92.7	95.0	163.0	210.0	110.0
23	AH-1261	82.6	78.3	23.0	90.0	93.0	153.3	181.7	80.0
24	AH-1219	80.6	78.3	23.5	91.3	93.7	153.7	143.3	68.3
25	MEH-1-12-13	81.9	78.3	26.5	100.3	102.0	160.0	166.7	100.0
26	HKH 341	83.3	77.3	23.0	95.3	97.3	162.0	185.0	101.7
27	KNMH-4301	83.3	76.8	24.0	96.3	98.7	159.0	240.0	123.3
CHECKS									
28	PMH 5	81.9	77.0	23.0	91.7	94.0	160.0	190.0	100.0
29	Prakash	81.3	78.8	19.0	89.7	92.0	145.0	180.0	100.0
30	Bio 9720	83.3	77.8	21.0	88.0	90.0	148.7	193.3	103.3
Loc. Mean		82.3	77.9	23.6	94.2	96.4	156.1	191.4	102.3
C.D. (5%)		2.76	0.21	0.51	0.73	1.98	0.91	15.52	5.82
C.V. (%)		2.05	0.17	1.32	0.47	1.26	0.36	4.96	3.48
F (Prob)		0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No.39 PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS OF 2013 KHARIF EXPERIMENT AND PLANTED IN 2014 KHARIF AT SRINAGAR IN IVT TRIAL No. 64 DURING KHARIF (2013)

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER			
		SRIN	ZN 1 R	VIVEK QPM 9 SRIN	VIVEK HYBRID 9 SRIN	VIVEK HYBRID 21 SRIN	VIVEK HYBRID 43 SRIN
1	DH-266	5378	12	-	-	-	14
2	DH-267	7794	5	-	3	-	65
3	DH-268	7522	7	-	-	-	59
4	FH-3641	9386	1	10	23	3	98
5	KH-7502	9266	2	9	22	2	96
6	DH-269	6769	9	-	-	-	43
7	DH-270	5677	11	-	-	-	20
8	DH-271	5958	10	-	-	-	26
9	AH-1212	7272	8	-	-	-	54
CHECKS							
10	Vivek QPM 9 (C)	8515	4	-	12	-	80
11	Vivek Hybrid 9 (C)	7603	6	-	-	-	61
12	Vivek Hybrid 21 (C)	9118	3	7	20	-	93
13	Vivek Hybrid 43 (C)	4734	13	-	-	-	-
Location Mean		7307					
C.D. (5%)		973					
C.V. (%)		7.89					
F (Prob)		0					
Plot Size		4.8					
AGRONOMY DATA							
Sowing Date		29-04					
Harvest Date		29-10					
Irrigation Nos		3					
Fertilizer Applied N		90					
Fertilizer Applied P		60					
Fertilizer Applied K		40					

Table No. 39 (Cont..)

S.No.	PEDIGREE	STAND AT	GRAIN	MOISTURE %	DAYS TO 50%	DAYS TO 50%	DAYS TO 75%	PLANT	EAR
		HARVEST (⁰ 000/ha)	SHELLING % SRIN	AT HARVEST SRIN	POLLEN SHED SRIN	SILKING SRIN	DRY HUSK SRIN	HEIGHT(cm) SRIN	HEIGHT(cm) SRIN
1	DH-266	83.3	79.8	17.0	86.7	89.3	137.0	155.0	90.0
2	DH-267	83.3	78.5	19.5	88.0	90.3	139.7	170.0	80.0
3	DH-268	82.6	78.8	18.5	83.0	85.7	139.7	180.0	93.3
4	FH-3641	82.6	78.0	19.5	88.7	90.7	142.7	185.0	80.0
5	KH-7502	82.6	78.3	19.0	89.0	91.3	141.0	200.0	100.0
6	DH-269	81.9	78.0	23.0	89.3	91.7	139.7	138.3	76.7
7	DH-270	81.3	78.3	21.0	90.3	92.7	140.0	170.0	93.3
8	DH-271	81.9	78.0	19.0	90.0	92.3	142.7	170.0	78.3
9	AH-1212	83.3	78.3	19.0	86.7	89.7	138.0	190.0	110.0
	CHECKS								
10	Vivek QPM 9 (C)	82.6	77.8	18.5	84.3	86.7	140.7	208.3	101.7
11	Vivek Hybrid 9 (C)	81.9	77.3	18.0	81.0	83.0	141.3	190.0	95.0
12	Vivek Hybrid 21 (C)	81.3	77.3	19.5	83.0	85.0	142.7	200.0	100.0
13	Vivek Hybrid 43 (C)	81.3	77.3	23.0	85.7	87.7	142.0	160.0	75.0
	Loc. Mean	82.3	78.1	19.6	86.6	88.9	140.5	178.2	90.3
	C.D. (5%)	2.35	0.23	0.43	0.75	1.00	0.64	4.54	4.34
	C.V. (%)	1.70	0.18	1.29	0.51	0.67	0.27	1.51	2.85
	F (Prob)	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 40 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS OF 2013 KHARIF EXPERIMENT AND PLANTED IN 2014 KHARIF AT SRINAGAR IN AVT1 TRIAL No. 66 DURING KHARIF (2013)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15%		GRAIN YIELD % SUPERIORITY OVER			
		MOISTURE SRIN	ZN 1 R	PMH-4 SRIN	BIO-9637 SRIN	HM-12 SRIN	HM8 SRIN
1	KMH-25K-45	1448	10	-	-	-	-
2	KMH-3110	1323	14	-	-	-	-
3	KMH-7148	1562	9	-	-	-	-
4	NMH-1276	1719	1	7	5	7	1
5	IJ8533	1641	3	2	0	2	-
6	X35B403	1634	5	2	-	2	-
7	S-6790	1394	12	-	-	-	-
8	S-6850	1416	11	-	-	-	-
9	Proline-777	1356	13	-	-	-	-
10	EHL-161708	1605	8	-	-	-	-
CHECKS							
11	PMH-4	1608	7	-	-	-	-
12	BIO-9637	1635	4	2	-	2	-
13	HM-12	1610	6	0	-	-	-
14	HM8	1697	2	6	4	5	-
Location Mean		1546					
C.D. (5%)		43					
C.V. (%)		1.65					
F (Prob)		0					
Plot Size		14.4					
AGRONOMY DATA							
Sowing Date		1-05					
Harvest Date		1-11					
Irrigation Nos		3					
Fertilizer Applied N		90					
Fertilizer Applied P		60					
Fertilizer Applied K		40					

Table No.40 (Cont..)

S.No.	PEDIGREE	STAND AT	GRAIN	MOISTURE %	DAYS TO 50%	DAYS TO 50%	DAYS TO 75%	PLANT	EAR
		HARVEST (⁰⁰⁰ /ha)	SHELLING %	AT HARVEST	POLLEN SHED	SILKING	DRY HUSK	HEIGHT(cm)	HEIGHT(cm)
		SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
1	KMH-25K-45	27.1	77.3	32.5	97.0	99.3	161.0	180.0	73.3
2	KMH-3110	27.5	77.0	32.5	104.0	106.3	163.0	161.7	81.7
3	KMH-7148	27.8	77.8	31.0	97.0	99.3	160.0	181.7	86.7
4	NMH-1276	27.3	78.3	18.5	94.7	97.3	141.3	195.0	100.0
5	IJ8533	27.5	77.0	22.5	99.0	101.3	164.7	218.3	115.0
6	X35B403	26.9	78.3	22.5	100.0	102.3	164.0	221.7	126.7
7	S-6790	27.8	77.8	31.0	103.7	105.7	164.7	171.7	96.7
8	S-6850	27.1	78.3	34.5	103.7	106.3	166.0	141.7	76.7
9	Proline-777	27.5	78.0	34.5	106.0	108.0	165.3	186.7	96.7
10	EHL-161708	27.8	78.0	22.5	94.0	96.7	149.3	156.7	81.7
CHECKS									
11	PMH-4	27.3	78.3	24.5	95.0	97.7	149.3	181.7	103.3
12	BIO-9637	27.1	77.3	24.5	97.0	99.7	159.0	223.3	123.3
13	HM-12	27.3	77.0	26.5	103.3	105.7	166.7	195.0	98.3
14	HM8	27.1	77.3	23.5	100.7	103.3	161.7	161.7	86.7
Loc. Mean		27.4	77.7	27.2	99.6	102.1	159.7	184.0	96.2
C.D. (5%)		0.72	0.21	0.30	0.79	1.07	0.69	3.57	3.27
C.V. (%)		1.58	0.16	0.67	0.47	0.63	0.26	1.16	2.03
F (Prob)		0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 41 PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS OF 2013 KHARIF EXPERIMENT AND PLANTED IN 2014 KHARIF AT SRINAGAR IN AVT1 TRIAL No. 67 DURING KHARIF (2013)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER	
		SRIN	ZN 1 R	PMH-5 SRIN	PRAKASH SRIN
1	FH-3609	7434	1	30	21
2	FH-3626	7115	3	24	16
3	EH-2212	6523	4	14	6
4	EH-2223	6519	5	14	6
5	Bio 6008	6514	6	14	6
6	REH-2011-2	6438	7	12	5
7	FH-3605	7182	2	25	17
8	EH-2170	6268	10	9	2
9	K-21	6341	8	11	3
10	DAS-MH-501	6323	9	10	3
11	Bisco-2238	6068	13	6	-
12	EHL-162508	5988	14	4	-
13	KNMH-4010141	6083	12	6	-
CHECKS					
14	PMH-5	5734	15	-	-
15	Prakash	6141	11	7	-
Location Mean		6445			
C.D. (5%)		127			
C.V. (%)		1.18			
F (Prob)		0			
Plot Size		14.4			
AGRONOMY DATA					
Sowing Date		29-04			
Harvest Date		1-11			
Irrigation Nos		3			
Fertilizer Applied N		90			
Fertilizer Applied P		60			
Fertilizer Applied K		40			

Table No. 41 (Cont..)

S.No.	PEDIGREE	STAND AT	GRAIN	MOISTURE %	DAYS TO 50%	DAYS TO 50%	DAYS TO 75%	PLANT	EAR
		HARVEST (⁰⁰⁰ /ha)	SHELLING %	AT HARVEST	POLLEN SHED	SILKING	DRY HUSK	HEIGHT(cm)	HEIGHT(cm)
		SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
1	FH-3609	83.1	79.0	18.5	88.7	90.7	142.7	201.7	105.0
2	FH-3626	83.3	78.8	22.0	91.0	93.3	148.0	210.0	115.0
3	EH-2212	82.9	78.3	22.5	89.3	91.7	146.3	186.7	93.3
4	EH-2223	82.6	77.8	23.5	90.3	92.3	145.7	206.7	101.7
5	Bio 6008	82.9	77.3	24.0	91.3	93.7	147.0	196.7	83.3
6	REH-2011-2	81.0	77.8	20.5	93.0	95.7	151.3	201.7	110.0
7	FH-3605	83.1	78.8	17.5	85.0	87.7	138.0	160.0	80.0
8	EH-2170	82.4	78.5	19.0	89.3	91.7	147.7	191.7	100.0
9	K-21	81.9	78.5	19.5	87.0	89.0	140.3	185.0	93.3
10	DAS-MH-501	83.3	77.8	19.5	89.3	91.3	142.0	155.0	75.0
11	Bisco-2238	82.6	78.8	17.5	84.7	86.3	137.3	165.0	80.0
12	EHL-162508	82.4	78.3	20.5	90.0	92.3	138.7	155.0	90.0
13	KNMH-4010141	83.1	78.3	19.0	91.0	93.3	146.0	170.0	90.0
	CHECKS								
14	PMH-5	81.9	78.3	20.5	90.3	92.3	151.0	170.0	95.0
15	Prakash	82.9	79.0	17.5	91.3	93.3	147.0	160.0	101.7
	Loc. Mean	82.6	78.3	20.1	89.4	91.6	144.6	181.0	94.2
	C.D. (5%)	1.04	0.19	0.38	0.63	0.94	0.86	3.56	4.75
	C.V. (%)	0.75	0.15	1.14	0.42	0.61	0.35	1.18	3.01
	F (Prob)	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 42 PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS OF 2013 KHARIF EXPERIMENT AND PLANTED IN 2014 KHARIF AT SRINAGAR IN AVT1 TRIAL No. 68 DURING KHARIF (2013)

SI No	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER	
	SRIN	ZN 1	VIVEK QPM-9	VIVEK HYBRID-9
1 FH-3594	5664	9	-	-
2 AH-1202	7247	5	16	1
3 DH-238	9763	1	56	36
4 DH-262	6681	7	7	-
5 K-75	9020	2	44	26
6 FH-3554	8697	3	39	21
7 FH-3556	7830	4	25	9
CHECKS				
8 Vivek QPM-9	6252	8	-	-
9 Vivek Hybrid-9	7184	6	15	-
Location Mean	7593			
C.D. (5%)	239			
C.V. (%)	1.81			
F (Prob)	0			
Plot Size	14.4			
AGRONOMY DATA				
Sowing Date	29-04			
Harvest Date	1-11			
Irrigation Nos	3			
Fertilizer Applied N	90			
Fertilizer Applied P	60			
Fertilizer Applied K	40			

Table No. 42 (Cont..)

S.No.	PEDIGREE	STAND AT	GRAIN	MOISTURE %	DAYS TO 50%	DAYS TO 50%	DAYS TO 75%	PLANT	EAR
		HARVEST ('000/ha)	SHELLING %	AT HARVEST	POLLEN SHED	SILKING	DRY HUSK	HEIGHT(cm)	HEIGHT(cm)
		SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
1	FH-3594	82.9	77.8	22.0	93.7	96.7	146.3	170.0	80.0
2	AH-1202	82.4	79.5	20.0	88.7	92.3	145.3	216.7	133.3
3	DH-238	82.9	77.3	18.5	87.0	90.3	138.3	200.0	111.7
4	DH-262	82.4	78.3	20.0	87.0	91.0	140.3	210.0	106.7
5	K-75	83.3	77.5	22.0	85.0	89.0	140.0	190.0	86.7
6	FH-3554	82.9	76.5	24.5	84.3	88.7	140.3	190.0	91.7
7	FH-3556	82.6	77.3	23.0	89.0	92.7	142.0	185.0	93.3
	CHECKS								
8	Vivek QPM-9	83.1	78.0	20.0	82.3	85.0	135.0	191.7	100.0
9	Vivek Hybrid-9	82.6	77.8	19.5	84.0	87.0	136.7	175.0	83.3
	Loc. Mean	82.8	77.8	21.1	86.8	90.3	140.5	192.0	98.5
	C.D. (5%)	1.25	0.29	0.52	1.37	1.58	2.17	6.42	8.20
	C.V. (%)	0.87	0.21	1.43	0.91	1.01	0.89	1.93	4.81
	F (Prob)	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Breeder Seed Production

BSP IV
Production Year 2014 (Kharif 2014)

A total of 44.66quintal of breeder seed of maize hybrids and OPVs was indented by Department of Agriculture and cooperation, Ministry of Agriculture, GOI and allocated to the thirteen AICRP centres. 17 OPVs and parental lines of 16 hybrids were included in the breeder seed programme. The production was taken up during Kharif 2014 and rabi 2014-15. During Kharif 2014, 27.68 quintals of breeder seed has been produced as per reports received by March 23, 2015. The individual reports were compiled. Given below is the overall BSP 4 report highlighting the production status:

Table 1: Centre-wise breeder seed production of parental lines of maize hybrids and OPVs

Indent of Breeder Seed for Kharif -2015								
		Production year 2014						
S. No.	Name of producing state/ centre	Variety Name	Year of notification	DAC Indent	Total Allotment as per BSP-1 (Q)	Production (Q)	Surplus / Deficit	Remarks
I Bihar								
1	Tirhut college of Agriculture Dholi	Shaktiman-4 (F) CML 161	2006	0.40	0.40			Rabi 2014-15
2		Shaktiman-4 (M) CML 169		0.10	0.10			Rabi 2014-15
3		Shaktiman-2 (F) CML 176	2004	1.60	1.60			Rabi 2014-15
4		Shaktiman-2 (M) CML 169		0.40	0.40			Rabi 2014-15
II Delhi								
5	IARI Delhi	Pusa Extra Early Hybrid Makka -5 (AH-421) (F) CM 150	2004	1.64	1.64			Rabi 2014-15
6		Pusa Extra Early Hybrid Makka -5 (AH-421) (F) CM 151 (M)		0.51	0.51			Rabi 2014-15
7		PEHM-2 (F) CM 137		0.04	0.04			Rabi 2014-15
8		PEHM-2 (M) CM 138		0.01	0.01			Rabi 2014-15
9		Pusa Composite-3 (Composite-85134)	2005	2.08	2.08			Rabi 2014-15
10		Pusa Composite-4(Composite-8551)	2005	0.33	0.33			Rabi 2014-15
III Gujarat								
11	AAU Godhara	Narmada Moti (IC-9001)	2002	0.50	0.50			Rabi 2014-15
IV Haryana								
12	CCHAU Kamal	HQPM-4 (F) HKI 193-2	2010	4.00	4.00			Rabi 2014-15
13		HQPM-4 (M) HKI 161		1.00	1.00	0.10	(-) 0.90	
14		HM-10 (HKH-1200)(HKI 1128 (M))	2008	0.20	0.20			Rabi 2014-15
15		HM-10 (HKH-1200)(HKI 193-2 (F))	2008	0.40	0.40			Rabi 2014-15
16		HQPM-7 (HKI 161 (M))	2008	0.20	0.20	0.20		Rabi 2014-15
17		HQPM-7 (HKI 193-1 (F))	2008	0.80	0.80			Rabi 2014-15

BSP2

18		HQPM-5 (F) HKI 163	2007	1.20	1.20	1.20		
19		HQPM-5 (M) HKI 161		0.30	0.30			Rabi 2014-15
20		HM-8-Female (HKI 1105)	2007	0.15	0.15	0.15		
21		HM-8-Male	2007	0.05	0.05			Rabi 2014-15
22		HQPM-1-Female HKI 193-1	2007	5.20	5.20			Rabi 2014-15
23		HQPM-1-Male HKI 163	2007	2.40	2.40	2.80		
24		HQPM-5-Female HKI 163	2007	1.20	1.20			Rabi 2014-15
25		HQPM-5-Male HKI 161	2007	0.40	0.40			Rabi 2014-15
26		HM-4 (F) HKI 1105	2005	0.40	0.40	0.40		
27		HM-4 (M) HKI 323		0.10	0.10	0.10		
V Kamataka								
28	Zonal Agricultural Research station Mandya	NAC 6004	2001	2.00	2.00			Rabi 2014-15
VI Madhya Pradesh								
29	JNKVV Chindwara	Jawahar Makai -216 (JM-216)	2002	2.60	2.60			Rabi 2014-15
VIII Rajasthan								
30	MPUA & T Banswara	Pratap Kanchan-2 WC-236(Y)	2009	1.05	1.05	0.90	(-) 0.15	
31	MPUA & T Udaipur	Pratap Hybrid Maize-1 – Female EI-116	2004	2.0	2.0			Rabi 2014-15
32		Pratap Hybrid Maize-1 –Male EI-364	2004	1.0	1.0			Rabi 2014-15
33		Pratap Makka-5 (EC-3116)	2006	2.6	2.6	10.00		
34		Pratap Makka-4	2004	0.6	0.6	2.00		
35		Pratap Makka-3 (EC-3108)	2005	4.0	4.0	4.50		
IX Punjab								
36	PAU Ludhiana	Parkash(JH-3189) Female CM 139	1997	0.04	0.04	0.40		
37		Parkash (JH-3189)Male CM 140		0.01	0.01	0.50		
X Telangana								
38	ANGRAU Hyderabad	Priya Sweetcorn	2002	0.01	0.01			Rabi 2014-15
XI Uttar Pradesh								
39	C.S. Azad University of AG. & Tech., Kanpur	Azad Kamal (R 9803)	2005	0.20	0.20			Not Reported
40		Azad Uttam (Composite R-2)		0.16	0.16			Not Reported
41		Sharadmani	2008	0.06	0.06			Not Reported
XII Uttarakhand								
42	VPKAS Almora	Vivek Maize Hybrid-9 (FH-3077) (F) CM 214	2001	0.04	0.04	0.04		
43		Vivek Maize Hybrid-9 (FH-3077) (M) CM 145		0.01	0.01	0.01		
44		Vivek Sankul Makka-31(VL-103)	2008	0.19	0.19	3.25		

BSP3

45	G.B.Pant Agriculture university pant nagar	Ganga Safed-2 CM-400	1969	1.20	1.20	0.37	(-) 0.83	
46		Ganga Safed-2 CM-300		0.60	0.60			Spring 2015
47		Ganga Safed-2 CM-600		0.40	0.40	0.70		
48		Pant Sankul Makka-3 (D131)	2008	0.06	0.06			Spring 2015
49		Amar (D-941)	2001	0.06	0.06			Spring 2015
50		Gaurav (D-931)	1999	0.16	0.16	0.06	(-) 0.10	
		Total			44.66	27.68		

Note: Rabi crop to be harvested at the end of April, 2015

Breeder seed allocated and produced by AICRP (Maize) centres during 2013-14

A total of 60.33 quintal of breeder seed of maize hybrids and OPVs was indented by Department of Agriculture and cooperation, Ministry of Agriculture, GOI and allocated to the twelve AICRP centres. 15 OPVs and parental lines of 17 hybrids were included in the breeder seed programme. The production was taken up during Kharif 2013 and rabi 2013-14. During Kharif 2013, 63.65 quintals of breeder seed was produced; while 25.82 quintal seed of eight OPVs and parental lines of nine hybrids was produced in the rabi season (2013-14). Thus a total of 89.47 quintal breeder seed in respect of maize has been produced.

Five centres, viz. IARI, Delhi, CSAU Kanpur, JNKVV Chhindwara, BAU Ranchi and UAS Mandya did not report the production at all while three centres, namely MPUAT Banswara, and Udaipur and CCSHAU Karnal reported deficit production in respect of five parental lines and one OPV, respectively. The consolidated breeder seed production report pertaining to year 2013-14 is given below:

Table 2: Breeder seed production report (2013-14)

s. #	Name of the producing state /centre	Parental line/varieties	DAC indent	Actual allotment as per BSP-I target	Actual production	Production surplus/deficit over BSP-I target	Remarks
Uttarakhand							
1	VPKAS, Almora	Vivek Maize Hybrid 39 (V-373) (F)	0.03	0.03	0.03		
2	VPKAS, Almora	Vivek Maize Hybrid 39 (CM-212) (M)	0.01	0.01	0.04	(+) 0.03	
3	VPKAS, Almora	Vivek Maize Hybrid 33 (FH 3352) (V-372)(F)	0.04	0.04	0.10	(+) 0.06	
4	VPKAS, Almora	Vivek Maize Hybrid 33 (CM212)(M)	0.02	0.02	0.04	(+) 0.02	
5	VPKAS, Almora	Vivek QPM-9 (FQH 4567) (VQL1) (F)	0.03	0.03	1.90	(+) 1.87	
6	VPKAS, Almora	Vivek QPM-9 (VQL2) (M)	0.01	0.01	0.01		
7	VPKAS, Almora	Vivek Maize Hybrid-17 (FH-3186) (CM-153)(F)	1.50	1.50	1.75	(+) 0.25	
8	VPKAS, Almora	Vivek Maize Hybrid-17 (FH-3186) (CM-212)(M)	0.50	0.50	0.50		
9	GBPUAT, Pantnagar	Kanchan	0.17	0.17	2.00	(+) 1.83	
10	GBPUAT, Pantnagar	Sonari (Shweta)	0.04	0.04	0.05	(+) 0.01	
11	GBPUAT, Pantnagar	Amar (D-941)	0.20	0.20	2.00	(+) 1.80	
Punjab							
12	PAU, Ludhiana	PMH 4 (LM-5) (F)	0.42	0.42	1.00	(+) 0.58	
13	PAU, Ludhiana	PMH 4 (LM-16) (M)	0.13	0.13	0.15	(+) 0.02	
14	PAU, Ludhiana	PMH 5 (JH 3110) (LM16) (F)	0.42	0.42	0.45	(+) 0.03	
15	PAU, Ludhiana	PHM-5 (LM18) (M)	0.13	0.13	0.15	(+) 0.02	

BSP4

16	PAU, Ludhiana	PMH-3 (JH 10704) (LM-17) (F)	0.42	0.42	0.80	(+) 0.38	
17	PAU, Ludhiana	PMH-3 (JH 10704) (LM-14) (M)	0.13	0.13	20.00	(+) 19.87	
18	PAU, Ludhiana	Vijay Composite	0.10	0.10	0.20	(+) 0.10	
	Haryana						
19	CCSHAU, Karnal	HQPM-4 (HKI-193-2) (F)	4.50	4.50	0.40	(-) 4.10	
20	CCSHAU, Karnal	HQPM-4 (HKI-161) (M)	1.50	1.50	1.65	(+) 0.15	
21	CCSHAU, Karnal	HM-10 (HKH-1200) (HKI 1128) (M)	1.20	1.20	0.97	(-) 0.25	
22	CCSHAU, Karnal	HM-10 (HKH-1200)(HKI 193-2)(F)	2.30	2.30	0.00	(-) 2.30	
23	CCSHAU, Karnal	HQPM-7 (HKI 161) (M)	1.20	1.20	1.65	(+) 0.45	
24	CCSHAU, Karnal	HQPM-7 (HKI 193-1) (F)	0.50	0.50	1.10	(+) 0.6	
25	CCSHAU, Karnal	HQPM-5 (HKI-163) (F)	4.30	4.30	4.30		
26	CCSHAU, Karnal	HQPM-5 (HKI-161) (M)	1.40	1.40	1.60	(+) 0.20	
27	CCSHAU, Karnal	HM-4 (HKI-1105) (F)	0.37	0.37	0.40	(+) 0.03	
28	CCSHAU, Karnal	HM-4 (HKI-323) (M)	0.13	0.13	0.22	(+) 0.09	
29	CCSHAU, Karnal	HM-8 (HKI-1105) (F)	0.15	0.15	0.15		
30	CCSHAU, Karnal	HM-8 (HKI-161) (M)	0.05	0.05	1.60	(+) 0.11	
31	CCSHAU, Karnal	HQPM-1 (HKI-193-1) (F)	4.15	4.15	4.15		
32	CCSHAU, Karnal	HQPM-1 (HKI-163) (M)	2.05	2.05	0.91	(-) 1.14	
	Delhi						
33	IARI, Delhi	Pusa Extra Early Hybrid Makka -5 (CM-150) F	1.04	1.04			*
34	IARI, Delhi	Pusa Extra Early Hybrid Makka -5 (CM-151)M	0.52	0.52			*
35	IARI, Delhi	Pusa Composite-3 (Composite-85134)	1.27	1.27	0.85	(-) 0.42	
36	IARI, Delhi	Pusa Composite-4 (Composite-8551)	0.30	0.30	1.45	(+) 1.15	
	Rajasthan						
37	MPUAT, Udaipur	Pratap Hybrid Maize-1 (EI-116) (F)	3.00	3.00	1.50	(-) 1.50	
38	MPUAT, Udaipur	Pratap Hybrid Maize-1 (EI-364) (M)	1.50	1.50	1.60	(+) 0.10	
39	MPUAT, Udaipur	PRATAP MAKKA-4 (EC-1108)	2.00	2.00	2.00		
40	MPUAT, Udaipur	PRATAP MAKKA-5 (EC-3116)	2.00	2.00	4.60	(+) 2.6	
41	MPUAT, Banswara	Pratap Kanchan-2 WC-236(Y)	1.00	1.00	0.90	(-) 0.10	
	Bihar						
42	RAU, Dholi	Shaktiman-2 (CML-176) (M)	0.65	0.65	3.00	(+) 2.35	
43	RAU, Dholi	Shaktiman-2 (CML-186) (F)	0.35	0.35	1.50	(+) 1.15	
	Uttar Pradesh						
44	CSAUAT, Kanpur	Azad Kamal (R 9803)	0.20	0.20			*
	Madhya Pradesh						
45	JNKVV,Chindwara	JAWAHAR MAKAI-216 (JM-216)	12.00	12.00	12.40	(+) 0.40	
46	JNKVV,Chindwara	JAWAHAR COMPOSITE MAKKA-12 (JM-12)	1.00	1.00			*
	Jharkhand						
47	BAU, Ranchi	BIRSA MAKKAI-1	2.30	2.30			*
48	BAU, Ranchi	BIRSA MAKKAI-2	2.00	2.00			*
	Karnataka						
49	Mandya, UAS Bangaluru	NAC 6004	1.10	1.10			*
	TOTAL :		60.33	60.33	89.47		

*Not reported

Agronomy

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Crop Production

Summary

The major agronomic research areas during kharif 2014 were nutrient application and planting density optimization of pre-released maize hybrids, identification of suitable intercrop/s and planting pattern in rainfed areas with residue management, site specific nutrient management (SSNM) for maize hybrids and tillage systems, planting density and nutrient management optimization for released maize hybrids, and organic manuring for maize production.

MAT-1: Evaluation of pre-release Genotypes under varying planting density and nutrient levels

A total of 17 pre-release hybrids of different maturity groups under AHT-2 were evaluated with 9 national checks under two densities (Normal and High) and two nutrient levels (N:P₂O₅:K₂O kg/ha) i.e. 150:50:60 and 200:60:80 for early maturity hybrids however, medium and late maturing hybrids were evaluated with 200:65:80, 250:80:100 nutrient levels. The early maturing hybrids responded to high density at Zone-I (Almora), at Zone-IV (Vagarai) and Zone-V (Ambikapur, Banswara, Chhindwara, Udaipur), however, it responded to only normal density in Zone-I (Kangra) and Zone-IV (Hyderabad). Amongst nutrient levels different pre-released genotypes responded to high dose (200:60:80) at Bajaura (Zone-I), Vagarai (Zone-IV) and Ambikapur, Banswara, Chhindwara, Udaipur (Zone-V). With regards to genotypes it was found that FH-3605 resulted significantly higher yields over best check (Prakash) at Almora, Bajaura (Zone-I), Arbhavi, Hyderabad and Vagarai (Zone-IV), EH-2212 and FH-3626 at Bajaura (Zone-I), KMH-7021 at Arbhavi (Zone-IV), CMH10-531 at Ambikapur (Zone-V), respectively.

In case of pre-release *medium* maturity genotypes it was found that these genotypes responded to high density at Ludhiana (Zone-II), Ambikapur and Banswara (Zone-V). Amongst nutrient levels pre-released genotypes responded to high fertility level (250:80:100) at Pantnagar (Zone-II), Ambikapur and Banswara (Zone-V). With regards to genotypes, it was found that only DKC9145 (IJ8533) was significantly superior over best checks at Ludhiana, Pantnagar (Zone-II) and Ambikapur (Zone-V).

In case of pre-release *late* maturity genotypes it was found that these genotypes responded to high density at Vagarai (Zone-IV) and to normal density at Karimnagar (Zone-IV). Amongst nutrient levels late maturity genotypes responded to high fertility level (250:80:100) at two locations of Zone-IV (Karimnagar and Vagarai). With regards to genotypes, it was found that LTH-22 was found significantly superior over best checks at four locations in Zone-IV (Arbhavi, Hyderabad, Karimnagar, Vagarai), while Geo Premium Diamond was found significantly superior at Arbhavi (Zone-IV) only.

In case of pre-released popcorn genotypes, it was found that these genotypes responded to high density at Bajaura (Zone-I), Banswara (Zone-V) and to normal density at Karimnagar (Zone-IV). Amongst nutrient levels pre-released popcorn genotypes responded to high fertility level (250:80:100) at all locations of Zone-I (Bajaura), Zone-IV

(Karimnagar) and Zone-V (Banswara), respectively. With regards to popcorn genotypes, none of the genotypes found significantly superior over best checks (VL Pop corn).

In case of pre-released sweet corn genotypes it was found that these genotypes responded to high density at Ludhiana (Zone-II) and to normal density at Hyderabad (Zone-IV), respectively. Amongst nutrient levels pre-released sweet corn genotypes responded to high fertility level (250:80:100) at Hyderabad (Zone-IV) only. With regards to sweet corn genotypes it was found that Bisco Madhu and FSCH-18 were significantly superior over best check at Ludhiana (Zone-II) and Hyderabad (Zone-IV), while KSCH-333 was found better only at Ludhiana only.

In case of pre-released baby corn genotypes it was found that these genotypes responded to high density at Almora, Bajaura (Zone-I), Ludhiana (Zone-I), Bhubneshwar, Dholi (Zone-III) and Banswara, Chhindwara (Zone-V) and to normal density at Karimnagar (Zone-IV). Amongst nutrient levels pre-released baby corn genotypes responded to high fertility level (250:80:100) at Almora, Bajaura (Zone-I), Karnal, Ludhiana (Zone-II), Bhubneshwar, Dholi (Zone-III) and Banswara, Chhindwara (Zone-V). With regards to baby corn genotypes it was found that Vivek Hybrids-27 was significantly superior over best check at Almora, Bajaura (Zone-I), Karnal, Ludhiana (Zone-II), Hyderabad, Karimnagar (Zone-IV) and Banswara, Chhindwara (Zone-V).

MAT-2: Effect of planting systems and intercropping with and without residue retention under rainfed condition

The experiments were conducted at seven locations for enhancing rainfed maize productivity in different agro-climatic conditions during kharif 2014 to find out suitable intercrop and residue management options. The retention of residue helped in enhancing maize productivity at Bajaura, Ranchi, Ambikapur, and Banswara while there was no significant effect at Srinagar and Bhubneshwar. The residue retention @ 5 t/ha resulted in enhancing maize productivity by 9 (Ranchi) to 29 (Bajaura) percent at various locations. The adoption of soybean or blackgram as intercrop were found effective at Bajaura, Ambikapur, Ranchi, Banswara and Udaipur while cowpea at Srinagar and groundnut was found best intercrop at Bhubneshwar. Overall, the option of these intercrops helped in gaining mean maize productivity to the tune of 7099 kg/ha at all seven locations. The adoption of paired row (84:50 cm) planting of maize with intercrop gave significantly higher yield by 5 to 11% at Ranchi, Ambikapur, Banswara and Udaipur while uniform row (67 cm) planting was found significantly superior with 7.6 to 29% yield increase at Srinagar and Bhubneshwar.

MAT-3: Nutrient management in maize-wheat-green gram cropping system under different tillage practices

The experiments were conducted at five locations to find out effective SSNM and tillage practices for yield maximization of yield in intensified cropping system. Planting of maize under zero tillage resulted 8.0 and 17.5 % significantly higher yields over conventional tillage system at Karnal and Banswara, respectively. However, the method of conventional tillage planting gave higher yield at Pantnagar and Udaipur. Amongst nutrient management practices SSNM resulted in significantly higher yield at Pantnagar,

Banswara and Chhindwara, while Farmers fertilization practices (FFP) resulted significantly higher yield at Karnal and Udaipur.

MAT-5: Nutrient management in maize based rainfed cropping systems under different tillage practices

The experiments were conducted at four locations to find out effective SSNM and tillage practices for yield maximization in emerging cropping system. In this system also planting of maize under zero tillage resulted 20.5, 12.1 and 10.3 % significantly higher yields over conventional tillage system at Kashmir, Delhi and Banswara, respectively. However, the method of conventional tillage planting gave higher yield at Chhindwara. Amongst nutrient management practices SSNM resulted in significantly higher yield at Delhi, while it remained at par with 100% RDF at Kashmir, Banswara and Chhindwara.

MAT-6: Nutrient management for Maize genotypes under different cropping systems

The trial was conducted at thirteen locations under maize-wheat system to find out SSNM practices for yield maximization of hybrids. Among the nutrient management practices, SSNM based on the nutrient expert gave 13.6, 4.5, 5.8, 12.8, 10.3, 22.1, 13.7, 22.9 and 9.0% higher yield of maize over recommended fertilizer practices (RDF) at Bajaura, Kangra, Ludhiana, Ranchi, Ambikapur, Banswara, Chhindwara, Jhabua and Udaipur, respectively. However, RDF resulted better at Kashmir and FFP resulted significantly better at Karnal (210:95:50 kg N:P₂O₅:K₂O) and Hyderabad (215:90:50 kg N:P₂O₅:K₂O) due to higher use of fertilizers by farmers. Among the various maize hybrids tested, significantly high yield of PMH-3 at Bajaura, Chhindwara, Jhabua and Ludhiana, PAC-740 at Kangra, DKC-7074 at Kashmir, CMH-08-292 at Karnal, Hyderabad, Banswara and Jhabua, CMH-08-350 at Ranchi, CMH-08-287 at Arbhavi and DHM-117 at Karimnagar was obtained over other hybrids.

MAT-8: Effect of planting density and nutrient management practices on the performance of hybrids in *Kharif* season

This experiment was conducted to maximize the yield of popular hybrids through planting density and nutrient management optimization at seventeen locations. It was found that popular hybrids responded to high density at Ludhiana, Bhubaneswar, Arbhavi, Banswara and Udaipur centre by 5.7, 6.2, 4.3, 13.8 and 11.2% higher yield over normal density, respectively. While response to normal planting density was found at Pantnagar, Kashmir, Ranchi, Hyderabad, Karimnagar and Ambikapur. Amongst various nutrient management practices SSNM resulted in significantly higher yield at Ludhiana, Kashmir, Dholi, Banswara and Chhindwara while STCR was found significantly superior at Karnal, Pantnagar, Bhubaneswar, Ranchi, Hyderabad, Godhra and Udaipur, respectively. However RDF proved better only at Bahaich centre.

MAT 11: Long-term trial on integrated nutrient management in maize-wheat cropping system

To explore the possibilities of organic maize production this long term experiment was initiated in *kharif* 2014. Significantly highest maize grain yield was obtained with 100% RDF + 5 t/ha FYM. However, 100% RDF was found at par with 10 t/ha FYM + Azotobacter

application which show that the organic maize production can be possible in lower foothill Himalayas. Economic analysis showed a new path for organic maize cultivation and it was found that maize + cowpea as intercrop with FYM 10 t/ha + Azotobacter resulted in highest net returns with B:C ratio of four.

Table 1: Performance of pre-release early maturity genotypes under varying planting density and nutrients levels in Zone I

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Grain yield (kg/ha)			Stover yield (kg/ha)		Plants ('000/ha)		
			Almora	Bajaura	Kangra	Almora	Kangra	Almora	Bajaura	Kangra
150:50:60	Normal (60x20 cm)	EH-2212	9361	11131	6117	14497	16445	66.7	80.6	83.0
		FH-3605	11535	12609	6529	17326	16222	66.7	78.3	82.6
		FH-3626	10833	10801	6152	14555	16148	66.7	80.1	83.0
		Prakash (C)	9756	9438	6970	14527	16630	66.7	79.0	83.0
	High (60x15 cm)	EH-2212	10218	11185	4946	14626	18704	83.3	101.4	110.7
		FH-3605	12058	12358	5221	17532	19333	83.3	106.5	113.0
		FH-3626	11991	11988	5216	15324	19704	83.3	105.6	110.7
		Prakash (C)	11478	10007	6026	15686	21222	83.3	99.8	111.1
200:60:80	Normal (60x20 cm)	EH-2212	10515	13106	6184	14659	16926	66.7	80.3	81.9
		FH-3605	12284	14023	6346	16299	17518	66.7	81.0	81.5
		FH-3626	10623	12103	5318	14002	14889	66.7	80.1	82.2
		Prakash (C)	10213	9587	6506	14435	15444	66.7	81.5	81.5
	High (60x15 cm)	EH-2212	12238	13372	4831	17680	20074	83.3	96.8	110.7
		FH-3605	13233	13085	5373	16764	19926	83.3	107.9	111.9
		FH-3626	11081	12927	5052	15717	19000	83.3	107.0	111.1
		Prakash (C)	11330	10206	6098	15178	21074	83.3	103.2	110.0
Mean of location			11171.7	11745.5	5805.3	15550.5	18078.7	75.0	91.8	96.7
150:50:60			10904	11189.8	5897	15509	18051	75.0	91.4	97.1
200:60:80			11440	12301.2	5713	15592	18106	75.0	92.2	96.3
C. D. at (5%)			719.9	401.9	131.1	781.2	737.9	0.0	2.3	1.0
Significance			N.S.	S	S	N.S.	N.S.	N.S.	N.S.	N.S.
Normal (60x20 cm)			10640	11600	6265	15038	16278	66.7	80.1	82.3
High (60x15 cm)			11703	11891	5345	16063	19880	83.3	103.5	111.2
C. D. at (5%)			719.9	401.9	131.1	781.2	737.9	0.0	2.3	1.0
Significance			S	N.S.	S	S	S	S	S	S
EH-2212			10583	12198	5519	15366	18037	75.0	89.8	96.6
FH-3605			12278	13019	5867	16980	18250	75.0	93.4	97.2
FH-3626			11132	11955	5435	14900	17435	75.0	93.2	96.8
Prakash (C)			10695	9810	6400	14956	18593	75.0	90.9	96.4
C. D. at (5%)			1018.1	568.3	185.4	1104.8	1043.6	0.0	3.2	1.4
Significance			S	S	S	S	N.S.	N.S.	N.S.	N.S.

Cont....

N:P ₂ O ₅ : K ₂ O	Density	Genotype	Cobs (⁰⁰⁰ /ha)			Plant height (cm)			B:C ratio	Turicum Leaf Blight (1-5 scale score)
			Almora	Bajaura	Kangra	Almora	Bajaura	Kangra	Kangra	Almora
150:50:60	Normal (60x20 cm)	EH-2212	69.4	76.9	78.5	207.4	206.2	225.0	2.27	1.7
		FH-3605	66.7	76.4	80.0	194.7	180.6	187.0	2.42	1.8
		FH-3626	84.4	84.3	81.5	208.7	189.4	190.0	2.27	2.2
		Prakash (C)	86.7	80.1	78.9	199.1	196.2	217.0	2.62	3.2
	High (60x15 cm)	EH-2212	87.2	97.7	80.0	212.8	214.2	219.7	1.85	1.7
		FH-3605	83.3	100.5	79.3	197.7	189.1	188.3	1.99	1.7
		FH-3626	96.1	102.8	78.9	213.0	191.2	205.0	2.00	1.8
		Prakash (C)	106.7	96.8	75.9	203.3	208.3	221.3	2.39	3.2
200:60:80	Normal (60x20 cm)	EH-2212	68.9	78.7	77.0	212.9	224.4	215.0	2.15	1.5
		FH-3605	68.9	79.2	78.1	201.0	195.3	209.0	2.24	3.2
		FH-3626	83.3	79.2	80.4	207.4	201.4	204.0	1.72	2.2
		Prakash (C)	90.0	84.3	78.5	203.7	209.5	218.0	2.20	3.3
	High (60x15 cm)	EH-2212	87.2	97.7	79.3	220.5	217.3	229.0	1.72	2.2
		FH-3605	86.1	101.4	81.1	205.3	183.8	188.3	1.92	2.5
		FH-3626	86.1	104.2	81.5	208.4	190.9	195.0	1.76	2.2
		Prakash (C)	101.1	99.5	80.0	205.1	197.9	208.0	2.24	3.2
Mean of location			84.5	90.0	79.3	206.3	199.7	207.5	2.11	2.3
150:50:60			85.1	89.4	79.1	204.6	196.9	206.7	2.23	2.1
200:60:80			84.0	90.5	79.5	208.0	202.6	208.3	1.99	2.5
C. D. at (5%)			3.1	2.6	1.5	4.9	3.2	6.6	0.07	0.1
Significance			N.S.	N.S.	N.S.	N.S.	S	N.S.	S	S
Normal (60x20 cm)			77.3	79.9	79.1	204.4	200.4	208.1	2.24	2.4
High (60x15 cm)			91.7	100.1	79.5	208.3	199.1	206.8	1.98	2.3
C. D. at (5%)			3.1	2.6	1.5	4.9	3.2	6.6	0.07	0.1
Significance			S	S	N.S.	N.S.	N.S.	N.S.	S	N.S.
EH-2212			78.2	87.8	78.7	213.4	215.5	222.2	2.00	1.8
FH-3605			76.3	89.4	79.6	199.7	187.2	193.2	2.14	2.3
FH-3626			87.5	92.6	80.6	209.4	193.2	198.5	1.94	2.1
Prakash (C)			96.1	90.2	78.3	202.8	203.0	216.1	2.36	3.2
C. D. at (5%)			4.4	3.6	2.1	7.0	4.5	9.4	0.10	0.2
Significance			S	N.S.	N.S.	S	S	S	S	S

Cont....

N:P ₂ O ₅ : K ₂ O	Density	Genotype	Days to 50% silking			Days to maturity		Barrenness in maize (%)		Test weight (1000-seed weight)	
			Almora	Bajaura	Kangra	Almora	Kangra	Bajaura	Kangra	Almora	Kangra
150:50:60	Normal (60x20 cm)	EH-2212	59.0	63.0	59.0	82.0	91.7	5.7	5.4	259.8	255.7
		FH-3605	57.0	58.3	52.7	80.0	86.0	3.0	3.1	374.3	257.7
		FH-3626	56.0	58.7	53.3	82.0	86.3	1.1	1.8	315.2	255.0
		Prakash (C)	55.0	57.3	49.0	82.0	82.0	2.2	4.9	301.6	271.7
	High (60x15 cm)	EH-2212	59.0	63.0	59.3	82.0	101.0	4.0	27.7	256.6	248.7
		FH-3605	57.0	58.3	54.7	80.0	94.3	5.6	29.8	366.1	261.0
		FH-3626	56.0	58.3	53.7	82.0	93.3	2.6	28.8	312.5	270.0
		Prakash (C)	55.0	58.7	49.7	82.0	86.7	2.1	31.7	274.5	274.3
200:60:80	Normal (60x20 cm)	EH-2212	59.0	61.3	59.3	82.0	93.3	1.1	5.9	269.8	253.3
		FH-3605	57.0	57.7	53.0	80.0	90.7	3.0	4.1	370.9	269.3
		FH-3626	56.0	57.7	53.7	81.3	87.0	2.3	2.3	316.4	273.7
		Prakash (C)	54.0	58.3	48.7	82.0	84.3	2.1	3.6	275.2	277.3
	High (60x15 cm)	EH-2212	59.0	60.7	60.0	81.7	104.0	2.3	28.4	267.8	256.3
		FH-3605	57.0	58.7	54.3	80.0	101.0	5.6	27.5	356.6	264.3
		FH-3626	56.0	58.3	52.7	82.0	96.3	3.1	26.7	321.3	271.7
		Prakash (C)	54.0	58.7	51.7	81.7	92.7	4.8	27.3	290.9	272.0
Mean of location			56.6	59.2	54.0	81.4	91.9	3.2	16.2	308.1	264.5
150:50:60			56.8	59.5	53.9	81.5	90.2	3.3	16.6	307.6	261.8
200:60:80			56.5	58.9	54.2	81.3	93.7	3.0	15.7	308.6	267.3
C. D. at (5%)			0.1	0.4	0.8	0.2	0.6	1.0	1.3	6.5	5.2
Significance			S	S	N.S.	N.S.	S	N.S.	N.S.	N.S.	S
Normal (60x20 cm)			56.6	59.0	53.6	81.4	87.7	2.6	3.9	310.4	264.2
High (60x15 cm)			56.6	59.3	54.5	81.4	96.2	3.8	28.5	305.8	264.8
C. D. at (5%)			0.1	0.4	0.8	0.2	0.6	1.0	1.3	6.5	5.2
Significance			N.S.	N.S.	S	N.S.	S	S	S	N.S.	N.S.
EH-2212			59.0	62.0	59.4	81.9	97.5	3.3	16.8	263.5	253.5
FH-3605			57.0	58.3	53.7	80.0	93.0	4.3	16.1	367.0	263.1
FH-3626			56.0	58.3	53.3	81.8	90.8	2.3	14.9	316.4	267.6
Prakash (C)			54.5	58.3	49.8	81.9	86.4	2.8	16.9	285.5	273.8
C. D. at (5%)			0.2	0.6	1.1	0.3	0.9	1.4	1.9	9.1	7.4
Significance			S	S	S	S	S	S	N.S.	S	S

Table 2: Performance of pre-release early maturity genotypes under varying planting density and nutrients levels in Zone IV.

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Grain yield (kg/ha)			Stover yield (kg/ha)		
			Arbhavi	Hyderabad	Vagarai	Arbhavi	Hyderabad	Vagarai
150:50:60	Normal (60x20 cm)	FH-3605	8659	7923	6843	4271	8613	5566
		KMH-7021	9332	6945	6571	4549	7260	5345
		Prakash (C)	7095	7147	6434	2882	8217	5233
		PMH-4 - Filler	9937	7457	6420	5833	8442	5222
	High (50x20 cm)	FH-3605	9762	7483	7749	4750	8343	6307
		KMH-7021	9704	6609	7656	4333	7149	6232
		Prakash (C)	6522	7154	7391	3500	8060	6016
		PMH-4 - Filler	10033	7096	7375	4833	7637	6003
200:60:80	Normal (60x20 cm)	FH-3605	8789	8913	7184	4236	9327	6009
		KMH-7021	9251	7570	7152	4722	7653	5982
		Prakash (C)	6937	7411	6726	3021	8427	5626
		PMH-4 - Filler	10325	7853	6874	5278	9070	5750
	High (50x20 cm)	FH-3605	8460	7327	8251	4333	8703	7141
		KMH-7021	9253	6568	8034	4750	6840	6953
		Prakash (C)	8292	6975	7639	4333	7793	6611
		PMH-4 - Filler	9020	7176	7738	4667	8302	6697
Mean of location			8835.7	7350.4	7252.3	4393.2	8114.7	6043.3
200:65:80			8880	7227	7055	4369	7965	5741
250:80:100			8791	7474	7450	4418	8264	6346
C. D. at (5%)			354.5	301.4	139.3	469.1	317.3	117.0
Significance			N.S.	N.S.	S	N.S.	N.S.	S
Normal (60x20 cm)			8791	7652	6776	4349	8376	5592
High (50x20 cm)			8881	7049	7729	4438	7853	6495
C. D. at (5%)			354.5	301.4	139.3	469.1	317.3	117.0
Significance			N.S.	S	S	N.S.	S	S
FH-3605			8918	7912	7507	4398	8747	6256
KMH-7021			9385	6923	7353	4589	7226	6128
Prakash (C)			7211	7172	7047	3434	8124	5872
PMH-4 - Filler			9829	7396	7102	5153	8363	5918
C. D. at (5%)			501.3	426.2	196.9	663.5	448.7	165.4
Significance			S	S	S	S	S	S

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Plants ('000/ha)			Cobs ('000/ha)		
			Arbhavi	Hyderabad	Vagarai	Arbhavi	Hyderabad	Vagarai
150:50:60	Normal (60x20 cm)	FH-3605	66.7	77.2	81.9	67.7	75.5	82.9
		KMH-7021	66.3	72.6	81.9	67.0	71.8	82.4
		Prakash (C)	74.0	72.1	81.0	74.0	78.5	80.6
		PMH-4 - Filler	71.9	74.6	81.9	74.3	73.8	81.5
	High (50x20 cm)	FH-3605	80.4	81.4	93.3	80.4	81.2	95.0
		KMH-7021	81.7	75.7	95.0	81.7	71.6	92.8
		Prakash (C)	74.2	81.0	95.6	74.6	80.1	93.9
		PMH-4 - Filler	83.8	82.3	96.1	83.8	72.4	92.8
200:60:80	Normal (60x20 cm)	FH-3605	64.6	71.7	78.7	64.6	80.3	54.6
		KMH-7021	68.4	72.7	79.2	68.8	71.7	79.2
		Prakash (C)	65.3	76.5	80.1	66.0	76.7	79.6
		PMH-4 - Filler	63.5	79.4	80.1	63.5	70.3	80.6
	High (50x20 cm)	FH-3605	75.0	85.9	95.6	75.8	82.8	95.0
		KMH-7021	84.6	82.2	95.0	87.1	76.8	93.3
		Prakash (C)	78.3	84.0	96.7	78.8	78.5	93.9
		PMH-4 - Filler	82.9	79.8	96.1	83.3	71.8	91.1
Mean of location			73.8	78.1	88.0	74.5	75.9	85.6
200:65:80			74.9	77.1	88.4	75.4	75.6	87.7
250:80:100			72.8	79.0	87.7	73.5	76.1	83.4
C. D. at (5%)			3.2	2.6	0.8	3.3	1.7	6.2
Significance			N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
Normal (60x20 cm)			67.6	74.6	80.6	68.2	74.8	77.7
High (50x20 cm)			80.1	81.5	95.4	80.7	76.9	93.5
C. D. at (5%)			3.2	2.6	0.8	3.3	1.7	6.2
Significance			S	S	S	S	S	S
FH-3605			71.7	79.1	87.4	72.1	80.0	81.9
KMH-7021			75.2	75.8	87.8	76.1	73.0	86.9
Prakash (C)			72.9	78.4	88.3	73.3	78.5	87.0
PMH-4 - Filler			75.5	79.0	88.6	76.2	72.1	86.5
C. D. at (5%)			4.5	3.7	1.1	4.7	2.4	8.8
Significance			N.S.	N.S.	N.S.	N.S.	S	N.S.

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N:P ₂ O ₅ :K ₂ O	Density	Genotype	Plant height (cm)			Days to 50% silking		
			Arbhavi	Hyderabad	Vagarai	Arbhavi	Hyderabad	Vagarai
150:50:60	Normal (60x20 cm)	FH-3605	160.7	238.0	153.7	56.0	53.3	49.3
		KMH-7021	176.3	230.7	160.5	55.0	50.7	50.7
		Prakash (C)	179.1	228.3	158.3	53.7	50.0	51.3
		PMH-4 - Filler	184.1	220.3	159.7	57.0	53.3	54.3
	High (50x20 cm)	FH-3605	161.3	216.6	158.7	57.0	52.0	49.7
		KMH-7021	171.6	220.6	165.5	57.7	48.3	49.7
		Prakash (C)	178.5	212.5	164.9	55.7	49.0	51.7
		PMH-4 - Filler	174.8	224.0	168.0	58.0	52.3	53.7
200:60:80	Normal (60x20 cm)	FH-3605	165.6	217.0	157.5	56.0	56.0	50.0
		KMH-7021	179.3	231.7	167.6	56.3	52.7	50.7
		Prakash (C)	177.4	225.3	163.5	53.7	51.3	53.0
		PMH-4 - Filler	177.9	225.0	166.2	56.0	54.0	54.3
	High (50x20 cm)	FH-3605	165.1	226.6	160.8	56.7	53.3	51.0
		KMH-7021	171.3	234.2	171.1	58.0	51.3	52.3
		Prakash (C)	173.7	229.7	168.4	55.7	51.3	54.0
		PMH-4 - Filler	180.9	208.3	170.8	57.3	54.0	54.7
Mean of location			173.6	224.3	163.4	56.2	52.1	51.9
200:65:80			173.3	223.9	161.2	56.3	51.1	51.3
250:80:100			173.9	224.7	165.7	56.2	53.0	52.5
C. D. at (5%)			5.2	4.4	1.5	0.5	0.7	0.5
Significance			N.S.	N.S.	S	N.S.	S	S
Normal (60x20 cm)			175.0	227.0	160.9	55.5	52.7	51.7
High (50x20 cm)			172.1	221.6	166.0	57.0	51.5	52.1
C. D. at (5%)			5.2	4.4	1.5	0.5	0.7	0.5
Significance			N.S.	S	S	S	S	N.S.
FH-3605			163.2	224.5	157.7	56.4	53.7	50.0
KMH-7021			174.6	229.3	166.2	56.8	50.8	50.8
Prakash (C)			177.2	224.0	163.8	54.7	50.4	52.5
PMH-4 - Filler			179.4	219.4	166.2	57.1	53.4	54.3
C. D. at (5%)			7.3	6.2	2.1	0.8	1.0	0.7
Significance			S	S	S	S	S	S

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Days to maturity		Test weight (1000-seed weight)	
			Hyderabad	Vagarai	Hyderabad	Vagarai
150:50:60	Normal (60x20 cm)	FH-3605	91.7	90.7	380.0	346.7
		KMH-7021	90.0	90.7	320.0	335.0
		Prakash (C)	90.3	91.3	313.3	300.0
		PMH-4 - Filler	92.7	94.3	380.0	346.7
	High (50x20 cm)	FH-3605	95.0	89.7	380.0	350.7
		KMH-7021	93.0	89.7	313.3	335.7
		Prakash (C)	93.0	91.7	293.3	304.7
		PMH-4 - Filler	95.0	93.7	340.0	347.3
200:60:80	Normal (60x20 cm)	FH-3605	95.3	92.0	433.3	348.0
		KMH-7021	91.7	92.7	350.0	335.0
		Prakash (C)	94.0	95.0	326.7	305.3
		PMH-4 - Filler	95.7	96.3	393.3	345.0
	High (50x20 cm)	FH-3605	96.0	92.0	386.7	357.7
		KMH-7021	92.7	93.3	333.3	336.7
		Prakash (C)	95.3	95.0	300.0	307.7
		PMH-4 - Filler	96.0	95.7	380.0	343.3
Mean of location			93.6	92.7	351.5	334.1
200:65:80			92.6	91.5	340.0	333.3
250:80:100			94.6	94.0	362.9	334.8
C. D. at (5%)			0.6	0.5	16.0	7.9
Significance			S	S	S	N.S.
Normal (60x20 cm)			92.7	92.9	362.1	332.7
High (50x20 cm)			94.5	92.6	340.8	335.5
C. D. at (5%)			0.6	0.5	16.0	7.9
Significance			S	N.S.	S	N.S.
FH-3605			94.5	91.1	395.0	350.8
KMH-7021			91.8	91.6	329.2	335.6
Prakash (C)			93.2	93.3	308.3	304.4
PMH-4 - Filler			94.8	95.0	373.3	345.6
C. D. at (5%)			0.9	0.7	22.7	11.1
Significance			S	S	S	S

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Net return (Rs./ha)			BC ratio		
			Arbhavi	Hyderabad	Vagarai	Arbhavi	Hyderabad	Vagarai
150:50:60	Normal (60x20 cm)	FH-3605	56993	49309	27890	2.93	1.94	1.46
		KMH-7021	63722	36460	24352	3.15	1.70	1.40
		Prakash (C)	41348	39794	22567	2.40	1.76	1.37
		PMH-4 - Filler	69771	43658	22391	3.36	1.83	1.37
	High (50x20 cm)	FH-3605	66323	42072	39059	3.12	1.78	1.63
		KMH-7021	65736	30604	37854	3.10	1.56	1.61
		Prakash (C)	33917	37920	34411	2.08	1.70	1.56
		PMH-4 - Filler	69030	36819	34205	3.21	1.68	1.55
200:60:80	Normal (60x20 cm)	FH-3605	58290	57921	31471	2.97	2.03	1.51
		KMH-7021	62909	40471	31052	3.13	1.72	1.50
		Prakash (C)	39771	39372	25521	2.34	1.70	1.41
		PMH-4 - Filler	73647	45217	27445	3.49	1.81	1.44
	High (50x20 cm)	FH-3605	53296	36666	44750	2.70	1.63	1.72
		KMH-7021	61234	25880	41926	2.96	1.45	1.67
		Prakash (C)	51617	31623	36790	2.65	1.54	1.59
		PMH-4 - Filler	58904	34490	38077	2.88	1.59	1.61
Mean of location			57906.8	39267.1		2.90	1.71	
200:65:80			58355	39579		2.92	1.74	
250:80:100			57459	38955		2.89	1.68	
C. D. at (5%)			3544.6	3590.8		0.11	0.06	
Significance			N.S.	N.S.		N.S.	N.S.	
Normal (60x20 cm)			58306	44025		2.97	1.81	
High (50x20 cm)			57507	34509		2.84	1.62	
C. D. at (5%)			3544.6	3590.8		0.11	0.06	
Significance			N.S.	S		S	S	
FH-3605			58726	46492		2.93	1.84	
KMH-7021			63400	33354		3.08	1.61	
Prakash (C)			41663	37177		2.37	1.68	
PMH-4 - Filler			67838	40046		3.23	1.73	
C. D. at (5%)			5012.9	5078.1		0.16	0.09	
Significance			S	S		S	S	

Table 3: Performance of pre-release early maturity genotypes under varying planting density and nutrients levels in Zone V.

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Grain yield (kg/ha)				
			Ambikapur	Banswara	Chhindwara	Godhra	Udaipur
150:50:60	Normal (75x20 cm)	CMH10-531	6296	4093	5076	5111	3820
		Prakash (C)	4296	3241	3715	5278	4233
		BIO-9637 -Filler	5815	4944	3910	7944	4820
		BIO-9681 -Filler	6000	4626	4632	6222	4420
	High (60x20 cm)	CMH10-531	7185	4767	5403	4556	4120
		Prakash (C)	5111	3741	4194	4444	4527
		BIO-9637 -Filler	5963	6078	4688	5778	5193
		BIO-9681 -Filler	6296	5759	5139	5389	4723
200:60:80	Normal (75x20 cm)	CMH10-531	7889	4611	5403	7056	3820
		Prakash (C)	5222	3667	4785	6833	4223
		BIO-9637 -Filler	6148	5556	5472	9500	4820
		BIO-9681 -Filler	6444	5230	4972	7889	4483
	High (60x20 cm)	CMH10-531	7889	5333	5778	8722	4110
		Prakash (C)	5296	4222	5403	6556	4530
		BIO-9637 -Filler	7741	6333	5764	10056	5240
		BIO-9681 -Filler	6704	6037	5493	9056	4723
Mean of location			6268.5	4889.8	4989.1	6899.3	4487.9
150:50:60			5870	4656	4595	5590	4482
200:60:80			6667	5124	5384	8208	4494
C. D. at (5%) Significance			364.0 S	152.4 S	326.3 S	907.8 S	172.2 N.S.
Normal (75x20 cm)			6014	4496	4746	6979	4330
High (60x20 cm)			6523	5284	5233	6819	4646
C. D. at (5%) Significance			364.0 S	152.4 S	326.3 S	907.8 N.S.	172.2 S
CMH10-531			7315	4701	5415	6361	3968
Prakash (C)			4981	3718	4524	5778	4378
BIO-9637 -Filler			6417	5728	4958	8319	5018
BIO-9681 -Filler			6361	5413	5059	7139	4588
C. D. at (5%) Significance			514.7 S	215.5 S	461.5 S	1283.8 S	243.5 S

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Stover yield (kg/ha)				Barrenness in maize (%)	
			Ambikapur	Chhindwara	Godhra	Udaipur	Ambikapur	Chhindwara
150:50:60	Normal (75x20 cm)	CMH10-531	8733	11708	5500	5970	1.8	2.0
		Prakash (C)	5954	10313	7333	6040	2.9	2.3
		BIO-9637 -Filler	8037	10910	9222	7230	3.4	1.3
		BIO-9681 -Filler	8197	13410	4722	6683	4.0	1.3
	High (60x20 cm)	CMH10-531	9890	12403	3889	6227	2.3	3.7
		Prakash (C)	7105	11201	7000	6447	2.4	4.0
		BIO-9637 -Filler	8330	11535	3333	7793	2.9	2.7
		BIO-9681 -Filler	8820	12847	4889	7438	2.3	2.3
200:60:80	Normal (75x20 cm)	CMH10-531	11274	14326	6111	5803	3.4	1.0
		Prakash (C)	7540	12951	10000	6040	2.8	1.0
		BIO-9637 -Filler	8912	13931	9444	7200	3.6	1.7
		BIO-9681 -Filler	9348	13556	6000	6771	2.8	1.3
	High (60x20 cm)	CMH10-531	11543	15028	10278	5921	2.4	2.7
		Prakash (C)	7695	13201	10556	6440	1.9	1.7
		BIO-9637 -Filler	11480	13764	9167	7893	2.4	1.3
		BIO-9681 -Filler	9920	14431	6722	7090	1.4	1.7
Mean of location			8923.6	12844.6	7135.4	6686.7	2.7	2.0
150:50:60			8133	11791	5736	6729	2.8	2.5
200:60:80			9714	13898	8535	6645	2.6	1.5
C. D. at (5%)			516.5	548.9	1481.1	264.0	0.9	0.7
Significance			S	S	S	N.S.	N.S.	S
Normal (75x20 cm)			8499	12638	7292	6467	3.1	1.5
High (60x20 cm)			9348	13051	6979	6906	2.3	2.5
C. D. at (5%)			516.5	548.9	1481.1	264.0	0.9	0.7
Significance			S	N.S.	N.S.	S	N.S.	S
CMH10-531			10360	13366	6444	5980	2.5	2.3
Prakash (C)			7074	11917	8722	6242	2.5	2.3
BIO-9637 -Filler			9190	12535	7792	7529	3.1	1.8
BIO-9681 -Filler			9071	13561	5583	6996	2.7	1.7
C. D. at (5%)			730.4	776.3	2094.6	373.3	1.3	1.0
Significance			S	S	S	S	N.S.	N.S.

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Plants (⁰⁰⁰ /ha)				
			Ambikapur	Banswara	Chhindwara	Godhra	Udaipur
150:50:60	Normal (75x20 cm)	CMH10-531	63.0	62.2	77.8	20.0	53.3
		Prakash (C)	64.1	61.5	72.9	42.2	54.7
		BIO-9637 -Filler	64.8	61.9	73.6	33.3	57.3
		BIO-9681 -Filler	64.8	61.1	71.5	33.3	54.7
	High (60x20 cm)	CMH10-531	78.9	80.7	101.4	26.7	67.3
		Prakash (C)	78.1	73.3	100.7	52.8	70.7
		BIO-9637 -Filler	76.3	80.0	99.3	33.3	72.0
		BIO-9681 -Filler	78.9	80.4	94.4	43.3	69.3
200:60:80	Normal (75x20 cm)	CMH10-531	64.1	63.0	77.1	40.0	53.3
		Prakash (C)	65.9	62.6	75.0	66.7	54.9
		BIO-9637 -Filler	63.0	64.8	75.0	50.0	57.3
		BIO-9681 -Filler	64.8	63.0	75.7	48.9	54.7
	High (60x20 cm)	CMH10-531	78.5	81.9	104.2	54.4	67.3
		Prakash (C)	78.1	80.0	106.3	78.3	69.3
		BIO-9637 -Filler	79.3	82.6	104.9	51.7	72.0
		BIO-9681 -Filler	76.3	81.9	102.1	54.4	69.3
Mean of location			71.2	64.2	42.4	41.0	93.5
150:50:60			71.1	70.1	86.5	35.6	62.4
200:60:80			71.3	72.5	90.0	55.6	62.3
C. D. at (5%)			1.4	1.4	1.0	4.7	2.6
Significance			N.S.	S	S	S	N.S.
Normal (75x20 cm)			64.3	62.5	74.8	41.8	55.0
High (60x20 cm)			78.1	80.1	101.6	49.4	69.7
C. D. at (5%)			1.4	1.4	1.0	4.7	2.6
Significance			S	S	S	S	S
CMH10-531			71.1	71.9	90.1	35.3	60.3
Prakash (C)			71.6	69.4	88.7	60.0	62.4
BIO-9637 -Filler			70.8	72.3	88.2	42.1	64.7
BIO-9681 -Filler			71.2	71.6	85.9	45.0	62.0
C. D. at (5%)			1.9	2.0	1.4	6.7	3.7
Significance			N.S.	S	S	S	S

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Cobs ('000/ha)				
			Ambikapur	Banswara	Chhindwara	Godhra	Udaipur
150:50:60	Normal (75x20 cm)	CMH10-531	61.9	57.4	73.6	31.1	51.3
		Prakash (C)	62.2	46.7	68.1	40.0	54.4
		BIO-9637 -Filler	62.6	60.4	70.8	37.8	54.4
		BIO-9681 -Filler	62.2	54.4	68.8	36.1	53.3
	High (60x20 cm)	CMH10-531	77.0	67.4	93.8	30.0	64.0
		Prakash (C)	76.3	59.3	92.4	48.3	67.3
		BIO-9637 -Filler	74.1	71.9	93.8	34.4	66.6
		BIO-9681 -Filler	77.0	67.4	89.6	42.2	65.3
200:60:80	Normal (75x20 cm)	CMH10-531	61.9	62.2	75.0	37.2	51.3
		Prakash (C)	64.1	51.5	72.9	61.7	54.7
		BIO-9637 -Filler	60.7	64.4	71.5	47.8	54.4
		BIO-9681 -Filler	63.0	63.7	72.9	46.7	53.3
	High (60x20 cm)	CMH10-531	76.7	73.7	98.6	52.2	64.0
		Prakash (C)	76.7	67.4	102.8	57.8	67.3
		BIO-9637 -Filler	77.4	77.0	102.1	52.2	66.7
		BIO-9681 -Filler	75.2	75.2	98.6	55.6	65.3
Mean of location			69.3	57.4	40.4	40.0	89.4
150:50:60			69.2	60.6	81.3	37.5	59.6
200:60:80			69.4	66.9	86.8	51.4	59.6
C. D. at (5%)			1.6	1.3	1.0	5.0	2.6
Significance			N.S.	S	S	S	N.S.
Normal (75x20 cm)			62.3	57.6	71.7	42.3	53.4
High (60x20 cm)			76.3	69.9	96.4	46.6	65.8
C. D. at (5%)			1.6	1.3	1.0	5.0	2.6
Significance			S	S	S	N.S.	S
CMH10-531			69.4	65.2	85.2	37.6	57.7
Prakash (C)			69.8	56.2	84.0	51.9	60.9
BIO-9637 -Filler			68.7	68.4	84.5	43.1	60.6
BIO-9681 -Filler			69.4	65.2	82.5	45.1	59.3
C. D. at (5%)			2.2	1.8	1.4	7.1	3.6
Significance			N.S.	S	N.S.	S	S

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Plant height (cm)				
			Ambikapur	Banswara	Chhindwara	Godhra	Udaipur
150:50:60	Normal (75x20 cm)	CMH10-531	231.4	188.3	189.7	197.5	234.0
		Prakash (C)	185.7	185.0	173.7	210.0	218.0
		BIO-9637 -Filler	209.2	191.7	182.3	212.5	236.0
		BIO-9681 -Filler	211.7	190.0	186.3	180.0	229.3
	High (60x20 cm)	CMH10-531	239.1	193.3	183.0	210.0	240.0
		Prakash (C)	205.4	190.0	168.0	210.0	224.0
		BIO-9637 -Filler	222.7	198.3	176.7	200.0	242.0
		BIO-9681 -Filler	214.5	195.0	170.0	200.0	235.3
200:60:80	Normal (75x20 cm)	CMH10-531	238.1	195.0	193.3	185.0	235.0
		Prakash (C)	199.7	193.3	196.0	200.0	219.0
		BIO-9637 -Filler	238.1	201.7	195.3	207.5	237.3
		BIO-9681 -Filler	224.7	198.3	185.3	202.5	230.3
	High (60x20 cm)	CMH10-531	245.4	201.7	185.7	202.5	241.0
		Prakash (C)	208.1	196.7	183.0	205.0	225.3
		BIO-9637 -Filler	231.3	205.0	175.7	190.0	243.0
		BIO-9681 -Filler	236.1	203.3	182.7	190.0	235.3
Mean of location			221.3	195.4	182.9	200.2	232.8
150:50:60			215.0	191.5	178.7	202.5	232.3
200:60:80			227.7	199.4	187.1	197.8	233.3
C. D. at (5%)			5.1	5.6	3.5	7.5	3.5
Significance			S	S	S	N.S.	N.S.
Normal (75x20 cm)			217.3	192.9	187.8	199.4	229.9
High (60x20 cm)			225.3	197.9	178.1	200.9	235.8
C. D. at (5%)			5.1	5.6	3.5	7.5	3.5
Significance			S	N.S.	S	N.S.	S
CMH10-531			238.5	194.6	187.9	198.8	237.5
Prakash (C)			199.7	191.3	180.2	206.3	221.6
BIO-9637 -Filler			225.3	199.2	182.5	202.5	239.6
BIO-9681 -Filler			221.7	196.7	181.1	193.1	232.6
C. D. at (5%)			7.3	7.9	5.0	10.6	4.9
Significance			S	N.S.	S	N.S.	S

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Days to 50% silking				
			Ambikapur	Banswara	Chhindwara	Godhra	Udaipur
150:50:60	Normal (75x20 cm)	CMH10-531	54.7	49.0	56.0	45.0	54.0
		Prakash (C)	53.3	48.0	55.3	48.5	45.0
		BIO-9637 -Filler	55.0	51.0	55.7	41.0	51.0
		BIO-9681 -Filler	54.0	50.7	55.0	46.0	51.0
	High (60x20 cm)	CMH10-531	53.7	48.7	57.3	45.0	54.0
		Prakash (C)	52.3	47.7	55.7	53.0	45.0
		BIO-9637 -Filler	54.3	50.0	56.3	43.0	51.0
		BIO-9681 -Filler	54.3	50.7	55.0	46.5	51.0
200:60:80	Normal (75x20 cm)	CMH10-531	55.7	50.3	55.7	44.5	53.0
		Prakash (C)	53.0	50.0	54.3	45.0	44.0
		BIO-9637 -Filler	54.0	52.3	54.3	41.5	50.0
		BIO-9681 -Filler	53.7	52.3	54.3	45.5	50.0
	High (60x20 cm)	CMH10-531	55.3	49.7	56.3	47.5	53.0
		Prakash (C)	54.0	48.7	54.7	48.0	44.0
		BIO-9637 -Filler	53.3	51.3	55.3	42.0	50.0
		BIO-9681 -Filler	54.0	51.0	55.3	45.0	50.0
Mean of location			54.0	50.1	55.4	45.4	49.8
150:50:60			54.0	49.5	55.8	46.0	50.3
200:60:80			54.1	50.7	55.0	44.9	49.3
C. D. at (5%)			0.6	0.7	0.4	0.8	1.2
Significance			N.S.	S	S	S	N.S.
Normal (75x20 cm)			54.2	50.5	55.1	44.6	49.8
High (60x20 cm)			53.9	49.7	55.8	46.3	49.8
C. D. at (5%)			0.6	0.7	0.4	0.8	1.2
Significance			N.S.	S	S	S	N.S.
CMH10-531			54.8	49.4	56.3	45.5	53.5
Prakash (C)			53.2	48.6	55.0	48.6	44.5
BIO-9637 -Filler			54.2	51.2	55.4	41.9	50.5
BIO-9681 -Filler			54.0	51.2	54.9	45.8	50.5
C. D. at (5%)			0.9	1.0	0.6	1.2	1.6
Significance			S	S	S	S	S

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Net return (Rs./ha)			BC ratio		
			Ambikapur	Chhindwara	Udaipur	Ambikapur	Chhindwara	Udaipur
150:50:60	Normal (75x20 cm)	CMH10-531	49201	38032	29899	2.01	2.66	1.29
		Prakash (C)	25452	21701	34943	1.04	1.95	1.51
		BIO-9637 -Filler	43443	24034	43411	1.77	2.05	1.88
		BIO-9681 -Filler	45419	32699	37955	1.85	2.43	1.64
	High (60x20 cm)	CMH10-531	59868	41948	33607	2.44	2.83	1.44
		Prakash (C)	34985	27450	38751	1.43	2.20	1.66
		BIO-9637 -Filler	45097	33366	48367	1.84	2.46	2.08
		BIO-9681 -Filler	48915	38782	42301	2.00	2.70	1.82
200:60:80	Normal (75x20 cm)	CMH10-531	64455	39551	28875	2.36	2.56	1.21
		Prakash (C)	32340	32136	33999	1.18	2.27	1.42
		BIO-9637 -Filler	44043	40384	42551	1.61	2.60	1.78
		BIO-9681 -Filler	47551	34385	37997	1.74	2.36	1.59
	High (60x20 cm)	CMH10-531	64789	44050	32296	2.37	2.74	1.34
		Prakash (C)	33655	39551	37959	1.23	2.56	1.57
		BIO-9637 -Filler	62617	43883	48223	2.29	2.74	2.00
		BIO-9681 -Filler	50645	40634	41059	1.86	2.61	1.70
Mean of location			47029.6	35786.7	38262.0	1.81	2.48	1.62
150:50:60			44047	32252	38654	1.80	2.41	1.67
200:60:80			50012	39322	37870	1.83	2.56	1.58
C. D. at (5%)			4401.9	3915.0	2323.2	0.17	0.16	0.10
Significance			S	S	N.S.	N.S.	N.S.	N.S.
Normal (75x20 cm)			43988	32865	36204	1.70	2.36	1.54
High (60x20 cm)			50071	38708	40320	1.93	2.60	1.70
C. D. at (5%)			4401.9	3915.0	2323.2	0.17	0.16	0.10
Significance			S	S	S	S	S	S
CMH10-531			59578	40895	31169	2.30	2.70	1.32
Prakash (C)			31608	30210	36413	1.22	2.25	1.54
BIO-9637 -Filler			48800	35417	45638	1.88	2.46	1.93
BIO-9681 -Filler			48132	36625	39828	1.86	2.52	1.69
C. D. at (5%)			6225.3	5536.6	3285.5	0.24	0.23	0.14
Significance			S	S	S	S	S	S

Table 4: Performance of pre-release medium maturity genotypes under varying planting density and nutrients levels in Zone II.

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Grain yield (kg/ha)		Stover yield (kg/ha)	Plants ('000/ha)	
			Ludhiana	Pantnagar	Pantnagar	Ludhiana	Pantnagar
200:65:80	Normal 60x20 cm	DKC 9145 (IJ8533)	8329	8053	14482	82.4	73.1
		Rasi-3033	8319	9364	16002	81.9	66.5
		PMH-4 (C)	8398	6866	12773	82.9	71.2
		HM-9 (C)	6528	5204	9639	82.4	69.3
		Bio-9637 (C)	8259	7635	12013	81.5	68.4
	High 60x15 cm	DKC 9145 (IJ8533)	10907	7801	14312	110.2	88.7
		Rasi-3033	7847	8615	14175	108.8	90.5
		PMH-4 (C)	9829	6456	11843	109.7	89.6
		HM-9 (C)	5856	5898	10745	109.7	88.7
		Bio-9637 (C)	7852	6786	10791	109.3	87.8
250:80:100	Normal 60x20 cm	DKC 9145 (IJ8533)	8370	9240	16477	82.9	67.4
		Rasi-3033	8403	9088	14767	81.9	68.4
		PMH-4 (C)	8546	8044	14292	82.4	68.4
		HM-9 (C)	7310	6372	12678	81.9	65.5
		Bio-9637 (C)	8606	7607	12013	80.6	65.5
	High 60x15 cm	DKC 9145 (IJ8533)	11037	10023	16232	109.7	94.2
		Rasi-3033	8824	9877	17055	109.7	87.8
		PMH-4 (C)	9866	8935	13489	109.7	94.2
		HM-9 (C)	5903	6630	12346	109.7	88.7
		Bio-9637 (C)	7917	8587	13489	109.3	88.7
Mean of location			8345.4	7854.0	13480.7	69.0	79.1
200:65:80			8213	7268	12678	95.9	79.4
250:80:100			8478	8440	14284	95.8	78.9
C. D. at (5%)			276.1	501.4	817.2	0.6	2.5
Significance			N.S.	S	S	N.S.	N.S.
Normal (60x20 cm)			8107	7747	13514	82.1	68.4
High (60x15 cm)			8584	7961	13448	109.6	89.9
C. D. at (5%)			276.1	501.4	817.2	0.6	2.5
Significance			S	N.S.	N.S.	S	S
DKC 9145 (IJ8533)			9661	8779	15376	96.3	80.9
Rasi-3033			8348	9236	15500	95.6	78.3
PMH-4 (C)			9160	7575	13099	96.2	80.9
HM-9 (C)			6399	6026	11352	95.9	78.1
Bio-9637 (C)			8159	7654	12077	95.1	77.6
C. D. at (5%)			436.6	792.8	1292.2	1.0	3.9
Significance			S	S	S	N.S.	N.S.

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Cobs ('000/ha)		Plant height (cm)		Days to 50% silking	
			Ludhiana	Pantnagar	Ludhiana	Pantnagar	Ludhiana	Pantnagar
200:65:80	Normal 60x20 cm	DKC 9145 (IJ8533)	80.1	73.1	229.3	202.3	55.7	54.3
		Rasi-3033	79.2	66.5	199.3	196.0	54.7	54.7
		PMH-4 (C)	80.6	71.2	196.7	189.0	49.0	50.3
		HM-9 (C)	78.7	69.3	200.0	179.7	52.0	51.7
		Bio-9637 (C)	80.6	68.4	237.3	220.7	52.7	52.3
	High 60x15 cm	DKC 9145 (IJ8533)	106.5	88.7	240.7	212.3	56.0	54.7
		Rasi-3033	104.6	90.5	205.0	203.3	56.0	53.7
		PMH-4 (C)	106.5	89.6	200.0	193.0	52.7	51.3
		HM-9 (C)	107.4	88.7	205.0	190.7	52.3	51.7
		Bio-9637 (C)	102.8	87.8	239.0	224.0	54.0	52.0
250:80:100	Normal 60x20 cm	DKC 9145 (IJ8533)	81.5	67.4	239.3	212.0	54.3	54.3
		Rasi-3033	80.6	68.4	206.3	205.0	55.0	53.3
		PMH-4 (C)	80.1	68.4	200.7	196.7	48.0	50.7
		HM-9 (C)	80.1	65.5	208.0	188.3	49.0	52.0
		Bio-9637 (C)	79.6	65.5	245.0	231.0	49.3	52.7
	High 60x15 cm	DKC 9145 (IJ8533)	105.6	94.2	239.3	218.7	55.3	54.7
		Rasi-3033	106.5	87.8	207.0	206.7	53.0	54.7
		PMH-4 (C)	105.1	94.2	210.0	202.7	48.3	50.7
		HM-9 (C)	105.1	88.7	210.0	190.3	52.0	51.7
		Bio-9637 (C)	106.0	88.7	246.7	232.7	50.3	51.3
Mean of location			66.9	79.1	218.2	204.8	52.5	52.6
200:65:80			92.7	79.4	215.2	201.1	53.5	52.7
250:80:100			93.0	78.9	221.2	208.4	51.5	52.6
C. D. at (5%)			1.0	2.5	3.8	5.6	0.9	0.5
Significance			N.S.	N.S.	S	S	S	N.S.
Normal (60x20 cm)			80.1	68.4	216.2	202.1	52.0	52.6
High (60x15 cm)			105.6	89.9	220.3	207.4	53.0	52.6
C. D. at (5%)			1.0	2.5	3.8	5.6	0.9	0.5
Significance			S	S	S	N.S.	S	N.S.
DKC 9145 (IJ8533)			93.4	80.9	237.2	211.3	55.3	54.5
Rasi-3033			92.7	78.3	204.4	202.8	54.7	54.1
PMH-4 (C)			93.1	80.9	201.8	195.3	49.5	50.8
HM-9 (C)			92.8	78.1	205.8	187.3	51.3	51.8
Bio-9637 (C)			92.2	77.6	242.0	227.1	51.6	52.1
C. D. at (5%)			1.6	3.9	6.0	8.8	1.4	0.9
Significance			N.S.	N.S.	S	S	S	S

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Test weight (1000-seed weight)	Net return (Rs./ha)	B:C ratio
			Pantnagar	Ludhiana	
200:65:80	Normal 60x20 cm	DKC 9145 (IJ8533)	295.3	54411	0.99
		Rasi-3033	291.7	54290	0.99
		PMH-4 (C)	287.3	55321	1.01
		HM-9 (C)	281.7	30819	0.56
		Bio-9637 (C)	287.3	53501	0.98
	High 60x15 cm	DKC 9145 (IJ8533)	293.0	87045	1.56
		Rasi-3033	288.3	46957	0.84
		PMH-4 (C)	280.0	72914	1.31
		HM-9 (C)	251.7	20878	0.37
		Bio-9637 (C)	275.0	47017	0.84
250:80:100	Normal 60x20 cm	DKC 9145 (IJ8533)	298.3	50120	0.84
		Rasi-3033	298.7	50544	0.85
		PMH-4 (C)	290.7	52425	0.88
		HM-9 (C)	293.0	36232	0.61
		Bio-9637 (C)	284.0	53213	0.89
	High 60x15 cm	DKC 9145 (IJ8533)	291.3	83905	1.38
		Rasi-3033	294.3	54915	0.91
		PMH-4 (C)	283.7	68561	1.13
		HM-9 (C)	283.7	16646	0.27
		Bio-9637 (C)	275.3	43028	0.71
Mean of location			286.2	51637.2	0.90
200:65:80			283.1	52315	0.95
250:80:100			289.3	50959	0.85
C. D. at (5%)			10.0	3617.4	0.06
Significance			N.S.	N.S.	S
Normal (60x20 cm)			290.8	49088	0.86
High (60x15 cm)			281.6	54187	0.93
C. D. at (5%)			10.0	3617.4	0.06
Significance			N.S.	S	S
DKC 9145 (IJ8533)			294.5	68870	1.19
Rasi-3033			293.3	51677	0.90
PMH-4 (C)			285.4	62305	1.08
HM-9 (C)			277.5	26144	0.46
Bio-9637 (C)			280.4	49190	0.86
C. D. at (5%)			15.8	5719.6	0.10
Significance			N.S.	S	S

Table 5: Performance of pre-release medium maturity genotypes under varying planting density and nutrients levels in Zone V.

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Grain yield (kg/ha)				
			Ambikapur	Banswara	Chhindwara	Godhra	Udaipur
200:65:80	Normal (75x20 cm)	DKC 9145 (IJ8533)	8074	4222	5389	6667	3740
		PMH-4 (C)	6778	5222	4483	6167	6937
		HM-9 (C)	5037	3796	5194	3833	4131
		Bio-9637 (C)	5852	5000	5544	5444	4107
	High (60x20 cm)	DKC 9145 (IJ8533)	8333	4937	5761	5278	4320
		PMH-4 (C)	7926	6074	5139	6556	6635
		HM-9 (C)	5444	4259	5461	4611	4730
		Bio-9637 (C)	6963	5756	5717	6889	4750
250:80:100	Normal (75x20 cm)	DKC 9145 (IJ8533)	8519	4778	5789	9444	3723
		PMH-4 (C)	7667	5778	5400	8056	6933
		HM-9 (C)	5778	4074	5278	3444	4113
		Bio-9637 (C)	6630	5667	5244	8222	4063
	High (60x20 cm)	DKC 9145 (IJ8533)	9407	5778	6100	7389	4333
		PMH-4 (C)	7926	6667	5450	9278	6640
		HM-9 (C)	7222	4926	5517	4111	4777
		Bio-9637 (C)	8111	6704	5800	8167	5110

Mean of location 7229.2 5227.3 5454.2 6472.2 4940.2

200:65:80	6801	4908	5336	5681	4919
250:80:100	7657	5546	5572	7264	4962

C. D. at (5%) 462.6 208.6 335.6 1146.2 192.0
Significance S S N.S. S N.S.

Normal (75x20 cm)	6792	4817	5290	6410	4719
High (60x20 cm)	7667	5638	5618	6535	5162

C. D. at (5%) 462.6 208.6 335.6 1146.2 192.0
Significance S S N.S. N.S. S

DKC 9145 (IJ8533)	8583	4929	5760	7194	4029
PMH-4 (C)	7574	5935	5118	7514	6786
HM-9 (C)	5870	4264	5363	4000	4438
Bio-9637 (C)	6889	5781	5576	7181	4508

C. D. at (5%) 654.2 295.0 474.7 1620.9 271.5
Significance S S N.S. S S

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Stover yield (kg/ha)				Barrenness in maize (%)	
			Ambikapur	Chhindwara	Godhra	Udaipur	Ambikapur	Chhindwara
200:65:80	Normal (75x20 cm)	DKC 9145 (J8533)	11549	14083	4444	5403	1.1	2.3
		PMH-4 (C)	9672	12211	7222	10790	2.2	1.7
		HM-9 (C)	7238	13483	4444	6197	2.8	1.3
		Bio-9637 (C)	8516	15417	4444	6205	2.3	1.7
	High (60x20 cm)	DKC 9145 (J8533)	11689	15317	4444	6253	1.8	3.3
		PMH-4 (C)	11124	14300	6667	10333	2.3	3.3
		HM-9 (C)	7743	14956	6667	7107	2.8	2.7
		Bio-9637 (C)	9818	15761	7500	7130	1.9	2.0
250:80:100	Normal (75x20 cm)	DKC 9145 (J8533)	12519	16650	8611	5386	3.4	1.7
		PMH-4 (C)	11370	15617	8611	10829	2.8	2.3
		HM-9 (C)	8451	14694	4722	6135	3.4	1.3
		Bio-9637 (C)	9779	15267	9722	6136	2.8	1.0
	High (60x20 cm)	DKC 9145 (J8533)	13829	16956	6389	6283	1.8	2.3
		PMH-4 (C)	11833	14544	10278	10358	2.8	3.7
		HM-9 (C)	10685	15639	7778	7165	2.8	2.7
		Bio-9637 (C)	12083	15706	10833	7716	2.4	1.3
Mean of location			10493.6	15037.5	7048.6	7464.2	2.5	2.2
200:65:80			9669	14441	5729	7427	2.2	2.3
250:80:100			11319	15634	8368	7501	2.8	2.0
C. D. at (5%)			693.0	740.5	1595.7	309.3	0.7	0.6
Significance			S	S	S	N.S.	N.S.	N.S.
Normal (75x20 cm)			9887	14678	6528	7135	2.6	1.7
High (60x20 cm)			11101	15397	7569	7793	2.3	2.7
C. D. at (5%)			693.0	740.5	1595.7	309.3	0.7	0.6
Significance			S	N.S.	N.S.	S	N.S.	S
DKC 9145 (J8533)			12396	15751	5972	5831	2.1	2.4
PMH-4 (C)			11000	14168	8194	10578	2.5	2.8
HM-9 (C)			8529	14693	5903	6651	3.0	2.0
Bio-9637 (C)			10049	15538	8125	6797	2.3	1.5
C. D. at (5%)			980.0	1047.2	2256.6	437.4	1.0	0.9
Significance			S	S	N.S.	S	N.S.	N.S.

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Plants (⁰⁰⁰ /ha)				
			Ambikapur	Banswara	Chhindwara	Godhra	Udaipur
200:65:80	Normal (75x20 cm)	DKC 9145 (IJ8533)	65.2	58.5	56.1	31.1	61.3
		PMH-4 (C)	65.2	65.2	58.9	33.3	61.3
		HM-9 (C)	65.9	56.3	57.2	28.9	61.6
		Bio-9637 (C)	65.9	67.4	60.0	26.1	61.3
	High (60x20 cm)	DKC 9145 (IJ8533)	80.0	68.9	83.3	26.7	78.7
		PMH-4 (C)	79.3	70.0	79.4	32.8	78.0
		HM-9 (C)	77.4	68.9	83.3	49.4	78.7
		Bio-9637 (C)	80.0	72.2	83.3	44.4	78.7
250:80:100	Normal (75x20 cm)	DKC 9145 (IJ8533)	65.2	61.5	58.9	46.7	61.3
		PMH-4 (C)	67.0	63.7	60.6	41.1	61.3
		HM-9 (C)	64.8	60.0	61.1	30.6	60.9
		Bio-9637 (C)	65.9	64.4	62.2	42.2	62.0
	High (60x20 cm)	DKC 9145 (IJ8533)	80.0	70.7	85.0	32.2	78.7
		PMH-4 (C)	80.7	66.7	85.6	51.7	79.1
		HM-9 (C)	79.6	70.0	86.7	42.2	78.7
		Bio-9637 (C)	77.4	73.3	85.6	46.7	78.7
Mean of location			72.5	59.5	43.0	34.1	105.0
200:65:80			72.4	65.9	70.2	34.1	69.9
250:80:100			72.6	66.3	73.2	41.7	70.1
C. D. at (5%)			1.2	1.8	0.9	6.0	2.6
Significance			N.S.	N.S.	S	S	N.S.
Normal (75x20 cm)			65.6	62.1	59.4	35.0	61.4
High (60x20 cm)			79.3	70.1	84.0	40.8	78.6
C. D. at (5%)			1.2	1.8	0.9	6.0	2.6
Significance			S	S	S	N.S.	S
DKC 9145 (IJ8533)			72.6	64.9	70.8	34.2	70.0
PMH-4 (C)			73.1	66.4	71.1	39.7	69.9
HM-9 (C)			71.9	63.8	72.1	37.8	69.9
Bio-9637 (C)			72.3	69.4	72.8	39.9	70.2
C. D. at (5%)			1.6	2.5	1.3	8.4	3.7
Significance			N.S.	S	N.S.	N.S.	N.S.

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Cobs ('000/ha)				
			Ambikapur	Banswara	Chhindwara	Godhra	Udaipur
200:65:80	Normal (75x20 cm)	DKC 9145 (IJ8533)	64.4	49.6	52.2	48.3	57.1
		PMH-4 (C)	63.7	56.3	56.1	52.8	56.5
		HM-9 (C)	64.1	47.4	55.0	34.4	54.7
		Bio-9637 (C)	64.4	58.5	57.2	28.9	57.8
	High (60x20 cm)	DKC 9145 (IJ8533)	78.5	57.8	77.8	40.6	73.1
		PMH-4 (C)	77.4	58.9	73.9	57.2	71.8
		HM-9 (C)	75.2	57.8	78.9	45.6	70.2
		Bio-9637 (C)	78.5	61.1	80.0	44.4	74.0
250:80:100	Normal (75x20 cm)	DKC 9145 (IJ8533)	63.0	53.0	56.1	63.3	57.1
		PMH-4 (C)	65.2	59.6	56.7	60.0	56.4
		HM-9 (C)	62.6	51.1	58.9	27.8	54.0
		Bio-9637 (C)	64.1	63.0	60.6	40.6	58.2
	High (60x20 cm)	DKC 9145 (IJ8533)	78.5	58.9	81.1	51.7	73.3
		PMH-4 (C)	78.5	68.5	79.4	62.2	72.9
		HM-9 (C)	77.4	59.3	82.2	34.4	70.2
		Bio-9637 (C)	75.6	65.9	83.3	45.6	74.0
Mean of location			70.7	52.1	40.9	41.5	96.7
200:65:80			70.8	55.9	66.4	44.0	64.4
250:80:100			70.6	59.9	69.8	48.2	64.5
C. D. at (5%)			1.2	1.8	0.8	5.7	2.4
Significance			N.S.	S	S	N.S.	N.S.
Normal (75x20 cm)			63.9	54.8	56.6	44.5	56.5
High (60x20 cm)			77.5	61.0	79.6	47.7	72.4
C. D. at (5%)			1.2	1.8	0.8	5.7	2.4
Significance			S	S	S	N.S.	S
DKC 9145 (IJ8533)			71.1	54.8	66.8	51.0	65.2
PMH-4 (C)			71.2	60.8	66.5	58.1	64.4
HM-9 (C)			69.8	53.9	68.8	35.6	62.3
Bio-9637 (C)			70.6	62.1	70.3	39.9	66.0
C. D. at (5%)			1.7	2.5	1.2	8.1	3.4
Significance			N.S.	S	S	S	S

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Plant height (cm)				
			Ambikapur	Banswara	Chhindwara	Godhra	Udaipur
200:65:80	Normal (75x20 cm)	DKC 9145 (IJ8533)	237.4	171.7	178.7	200.0	236.1
		PMH-4 (C)	215.2	183.3	183.0	212.5	235.6
		HM-9 (C)	191.7	186.7	183.0	200.0	228.4
		Bio-9637 (C)	218.0	176.7	179.7	185.0	222.4
	High (60x20 cm)	DKC 9145 (IJ8533)	245.1	175.0	174.0	197.5	240.4
		PMH-4 (C)	228.7	185.0	178.3	200.0	238.0
		HM-9 (C)	211.7	193.3	180.0	200.0	233.4
		Bio-9637 (C)	220.1	181.7	175.7	195.0	226.3
250:80:100	Normal (75x20 cm)	DKC 9145 (IJ8533)	244.1	178.3	187.3	200.0	236.1
		PMH-4 (C)	244.1	188.3	188.3	200.0	235.4
		HM-9 (C)	205.7	198.3	193.0	190.0	228.3
		Bio-9637 (C)	230.7	185.0	192.0	192.5	222.4
	High (60x20 cm)	DKC 9145 (IJ8533)	251.4	181.7	182.7	210.0	243.7
		PMH-4 (C)	237.3	191.7	185.3	197.5	239.3
		HM-9 (C)	214.1	201.7	187.7	200.0	232.8
		Bio-9637 (C)	242.1	187.7	188.0	210.0	226.4
Mean of location			227.3	185.4	183.5	199.4	232.8
200:65:80			221.0	181.7	179.0	198.8	232.6
250:80:100			233.7	189.1	188.0	200.0	233.0
C. D. at (5%)			3.4	2.7	1.5	8.1	4.1
Significance			S	S	S	N.S.	N.S.
Normal (75x20 cm)			223.4	183.5	185.6	197.5	230.6
High (60x20 cm)			231.3	187.2	181.5	201.3	235.0
C. D. at (5%)			3.4	2.7	1.5	8.1	4.1
Significance			S	S	S	N.S.	S
DKC 9145 (IJ8533)			244.5	176.7	180.7	201.9	239.1
PMH-4 (C)			231.3	187.1	183.8	202.5	237.1
HM-9 (C)			205.8	195.0	185.9	197.5	230.7
Bio-9637 (C)			227.7	182.8	183.8	195.6	224.4
C. D. at (5%)			4.8	3.9	2.2	11.5	5.8
Significance			S	S	S	N.S.	S

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Days to 50% silking				
			Ambikapur	Banswara	Chhindwara	Godhra	Udaipur
200:65:80	Normal (75x20 cm)	DKC 9145 (IJ8533)	56.3	53.3	57.3	52.5	54.7
		PMH-4 (C)	55.0	53.7	55.7	51.0	51.7
		HM-9 (C)	56.7	53.0	56.0	50.5	56.0
		Bio-9637 (C)	56.7	53.3	57.0	50.5	52.7
	High (60x20 cm)	DKC 9145 (IJ8533)	57.0	53.3	56.7	51.5	54.7
		PMH-4 (C)	55.3	54.3	55.3	50.5	51.3
		HM-9 (C)	56.0	53.0	55.7	53.0	55.7
		Bio-9637 (C)	56.3	53.3	58.3	51.5	52.7
250:80:100	Normal (75x20 cm)	DKC 9145 (IJ8533)	57.3	54.3	56.3	51.5	54.0
		PMH-4 (C)	55.7	54.3	56.0	50.5	50.7
		HM-9 (C)	57.7	53.7	57.0	51.0	54.7
		Bio-9637 (C)	58.0	53.7	55.3	50.5	51.7
	High (60x20 cm)	DKC 9145 (IJ8533)	56.3	55.0	57.7	50.5	53.7
		PMH-4 (C)	55.3	55.3	56.7	49.5	50.7
		HM-9 (C)	57.3	53.0	57.7	50.0	54.7
		Bio-9637 (C)	55.7	53.7	56.3	49.5	51.3
Mean of location			56.4	53.8	56.6	50.9	53.2
200:65:80			56.2	53.4	56.5	51.4	53.7
250:80:100			56.7	54.1	56.6	50.4	52.7
C. D. at (5%)			0.5	0.3	0.4	0.6	1.1
Significance			S	S	N.S.	S	N.S.
Normal (75x20 cm)			56.7	53.7	56.3	51.0	53.3
High (60x20 cm)			56.2	53.9	56.8	50.8	53.1
C. D. at (5%)			0.5	0.3	0.4	0.6	1.1
Significance			S	N.S.	S	N.S.	N.S.
DKC 9145 (IJ8533)			56.8	54.0	57.0	51.5	54.3
PMH-4 (C)			55.3	54.4	55.9	50.4	51.1
HM-9 (C)			56.9	53.2	56.6	51.1	55.3
Bio-9637 (C)			56.7	53.5	56.8	50.5	52.1
C. D. at (5%)			0.7	0.5	0.6	0.8	1.5
Significance			S	S	S	S	S

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Net return (Rs./ha)			B:C ratio		
			Ambikapur	Chhindwara	Udaipur	Ambikapur	Chhindwara	Udaipur
200:65:80	Normal (75x20 cm)	DKC 9145 (IJ8533)	74931	39369	27204	2.74	2.56	1.13
		PMH-4 (C)	57876	28507	72028	2.12	2.13	2.98
		HM-9 (C)	36620	37037	32848	1.34	2.46	1.36
		Bio-9637 (C)	46862	41235	32570	1.72	2.63	1.35
	High (60x20 cm)	DKC 9145 (IJ8533)	78090	43834	34984	2.86	2.73	1.44
		PMH-4 (C)	72130	36370	67656	2.64	2.44	2.78
		HM-9 (C)	41412	40235	40928	1.52	2.59	1.68
		Bio-9637 (C)	60710	43301	41196	2.22	2.71	1.69
250:80:100	Normal (75x20 cm)	DKC 9145 (IJ8533)	77702	42139	25925	2.56	2.55	1.03
		PMH-4 (C)	66815	37474	70977	2.21	2.37	2.81
		HM-9 (C)	43258	36008	31504	1.43	2.32	1.25
		Bio-9637 (C)	53875	35608	30905	1.78	2.31	1.23
	High (60x20 cm)	DKC 9145 (IJ8533)	89108	45871	34122	2.94	2.68	1.34
		PMH-4 (C)	69634	38074	66692	2.30	2.40	2.62
		HM-9 (C)	61414	38874	40500	2.03	2.42	1.59
		Bio-9637 (C)	72535	42272	45161	2.39	2.55	1.78
Mean of location			62685.8	39137.9	43450.0	2.18	2.49	1.75
200:65:80			58579	38736	43677	2.15	2.53	1.80
250:80:100			66793	39540	43223	2.20	2.45	1.71
C. D. at (5%)			5878.9	4026.1	2673.0	0.20	0.16	0.11
Significance			S	N.S.	N.S.	N.S.	N.S.	N.S.
Normal (75x20 cm)			57243	37172	40495	1.99	2.42	1.64
High (60x20 cm)			68129	41104	46405	2.36	2.57	1.87
C. D. at (5%)			5878.9	4026.1	2673.0	0.20	0.16	0.11
Significance			S	N.S.	S	S	N.S.	S
DKC 9145 (IJ8533)			79958	42803	30559	2.78	2.63	1.23
PMH-4 (C)			66614	35106	69338	2.32	2.33	2.80
HM-9 (C)			45676	38038	36445	1.58	2.45	1.47
Bio-9637 (C)			58496	40604	37458	2.03	2.55	1.51
C. D. at (5%)			8314.0	5693.8	3780.2	0.29	0.22	0.15
Significance			S	N.S.	S	S	N.S.	S

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Test weight (1000-seed weight)		Disease MLB (1-5)	Disease CLS (1-5)	Disease TLB (1-5)
			Ambikapur	Udaipur	Godhra		
200:65:80	Normal (75x20 cm)	DKC 9145 (IJ8533)	338.6	200.3	1.5	1.5	2.0
		PMH-4 (C)	331.9	215.3	1.5	1.5	1.5
		HM-9 (C)	320.7	235.3	2.0	2.0	1.5
		Bio-9637 (C)	316.6	259.3	1.5	1.5	1.0
	High (60x20 cm)	DKC 9145 (IJ8533)	327.6	195.0	1.5	1.5	2.0
		PMH-4 (C)	317.3	210.3	1.5	1.5	1.5
		HM-9 (C)	316.5	230.0	2.0	2.0	1.5
		Bio-9637 (C)	310.8	255.3	1.5	1.5	1.5
250:80:100	Normal (75x20 cm)	DKC 9145 (IJ8533)	349.7	200.7	1.5	1.5	1.5
		PMH-4 (C)	339.3	216.0	1.5	1.5	2.0
		HM-9 (C)	327.5	237.3	1.5	1.5	1.5
		Bio-9637 (C)	338.6	260.7	1.5	1.5	2.0
	High (60x20 cm)	DKC 9145 (IJ8533)	335.3	198.0	2.0	2.0	1.0
		PMH-4 (C)	332.3	211.0	2.0	2.0	2.0
		HM-9 (C)	322.9	230.3	2.0	2.0	2.0
		Bio-9637 (C)	332.3	256.0	2.0	2.0	2.5
Mean of location			328.6	225.7	1.7	1.7	1.7
200:65:80			322.5	225.1	1.6	1.6	1.6
250:80:100			334.8	226.3	1.8	1.8	1.8
C. D. at (5%)			7.3	7.9	0.3	0.3	0.4
Significance			S	N.S.	N.S.	N.S.	N.S.
Normal (75x20 cm)			332.9	228.1	1.6	1.6	1.6
High (60x20 cm)			324.4	223.3	1.8	1.8	1.8
C. D. at (5%)			7.3	7.9	0.3	0.3	0.4
Significance			S	N.S.	N.S.	N.S.	N.S.
DKC 9145 (IJ8533)			337.8	198.5	1.6	1.6	1.6
PMH-4 (C)			330.2	213.2	1.6	1.6	1.8
HM-9 (C)			321.9	233.3	1.9	1.9	1.6
Bio-9637 (C)			324.6	257.8	1.6	1.6	1.8
C. D. at (5%)			10.4	11.1	0.4	0.4	0.5
Significance			S	S	N.S.	N.S.	N.S.

Table 6: Performance of pre-release late maturity genotypes under varying planting density and nutrients levels in Zone IV.

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Grain yield (kg/ha)				Stover yield (kg/ha)		
			Arbhavi	Hyderabad	Karimnagar	Vagarai	Arbhavi	Hyderabad	Vagarai
200:65:80	Normal (60x20 cm)	LTH-22	14166	11412	10729	10270	8819	11496	8914
		NMH-1265	13602	9891	9466	9919	8750	10491	8034
		Geo Premium Diamond	13501	10909	9306	8833	10903	11629	8043
		PMH-1 (C)	12877	9086	8748	9204	10625	9586	8317
		PMH-3 (C)	10177	8978	9623	9226	7257	9578	8110
		Bio-9681-C	10474	9494	7567	8018	6806	10144	7563
		Seedtech-2324	10010	8864	8402	8443	7153	9514	7420
	High (50x20 cm)	LTH-22	13827	10229	10034	10994	7833	11029	9201
		NMH-1265	13546	9442	9066	10673	9250	10042	9015
		Geo Premium Diamond	14524	8527	8942	9196	11583	9247	7631
		PMH-1 (C)	12793	9756	7449	10904	11083	10256	9237
		PMH-3 (C)	9690	10308	8533	10934	7500	10908	9534
		Bio-9681-C	9130	7631	6915	9523	5917	8281	8487
		Seedtech-2324	10426	7926	8038	10085	6750	8576	8927
250:80:100	Normal (60x20 cm)	LTH-22	14276	10653	11460	10715	8681	12524	9213
		NMH-1265	13851	9678	9540	10650	8472	10631	9451
		Geo Premium Diamond	14199	10367	10217	9326	10903	11087	7896
		PMH-1 (C)	12886	8541	8760	10127	10417	9041	8520
		PMH-3 (C)	11304	8760	9871	10274	8333	9360	8783
		Bio-9681-C	10552	9035	8135	8571	6944	9685	7586
		Seedtech-2324	10371	8274	9290	9123	7986	8924	7489
	High (50x20 cm)	LTH-22	13980	10897	10468	11810	8583	11697	9767
		NMH-1265	13414	10682	9471	11608	9208	10289	9911
		Geo Premium Diamond	14570	9002	9534	9984	10750	9722	8690
		PMH-1 (C)	13112	10189	7539	11837	11000	10689	9808
		PMH-3 (C)	9584	9064	9585	11908	7417	9664	10462
		Bio-9681-C	9376	9648	7109	9928	6167	10298	8755
		Seedtech-2324	10227	8756	8891	10658	6917	9406	9220
Mean of location			12158.7	9499.9	9024.5	10097.9	8643.1	10135.5	8713.7
200:65:80			12053	9461	8773	9730	8588	10056	8459
250:80:100			12265	9539	9276	10466	8698	10215	8968
C. D. at (5%)			449.5	499.7	251.7	130.7	425.4	469.6	209.2
Significance			N.S.	N.S.	S	S	N.S.	N.S.	S
Normal (60x20 cm)			12303	9567	9365	9478	8718	10264	8238
High (50x20 cm)			12014	9433	8684	10717	8568	10007	9189
C. D. at (5%)			449.5	499.7	251.7	130.7	425.4	469.6	209.2
Significance			N.S.	N.S.	S	S	N.S.	N.S.	S
LTH-22			14062	10798	10673	10947	8479	11687	9274
NMH-1265			13603	9923	9386	10713	8920	10363	9103
Geo Premium Diamond			14198	9701	9500	9335	11035	10421	8065
PMH-1 (C)			12917	9393	8124	10518	10781	9893	8970
PMH-3 (C)			10189	9278	9403	10585	7627	9878	9222
Bio-9681-C			9883	8952	7431	9010	6458	9602	8098
Seedtech-2324			10258	8455	8655	9577	7201	9105	8264
C. D. at (5%)			840.9	934.9	470.9	244.5	795.9	878.5	391.4
Significance			S	S	S	S	S	S	S

Cont....

N:P ₂ O ₅ : K ₂ O	Density	Genotype	Plants ('000/ha)				Cobs ('000/ha)		
			Arbhavi	Hyderabad	Kolhapur	Vagarai	Arbhavi	Hyderabad	Vagarai
200:65: 80	Normal (60x20 cm)	LTH-22	66.3	77.6	50.8	80.1	66.3	77.2	79.2
		NMH-1265	70.8	82.4	59.4	77.3	70.8	78.3	76.4
		Geo Premium Diamond	71.2	73.7	56.4	70.8	71.2	75.1	70.4
		PMH-1 (C)	66.3	80.3	62.8	80.1	66.3	81.8	79.2
		PMH-3 (C)	63.9	79.8	58.3	79.2	63.9	73.0	78.2
		Bio-9681-C	60.8	80.2	51.1	69.4	60.8	72.8	69.0
		Seedtech-2324	62.2	77.9	52.2	80.1	62.2	79.9	79.2
	High (50x20 cm)	LTH-22	73.3	84.5	73.1	95.0	71.7	90.6	94.4
		NMH-1265	78.3	92.2	77.8	90.6	78.3	90.8	89.4
		Geo Premium Diamond	77.5	89.5	79.2	83.9	77.5	89.9	82.8
		PMH-1 (C)	77.5	94.3	74.7	95.6	77.5	88.8	94.4
		PMH-3 (C)	75.8	91.6	73.6	95.6	75.8	85.7	93.9
		Bio-9681-C	67.9	72.0	60.3	83.9	67.9	80.6	81.7
		Seedtech-2324	71.3	75.3	67.2	96.7	71.3	74.1	94.4
250:80: 100	Normal (60x20 cm)	LTH-22	74.0	81.9	54.2	80.1	74.0	76.3	78.7
		NMH-1265	69.1	82.2	54.4	78.7	69.1	72.9	78.7
		Geo Premium Diamond	72.9	79.7	55.0	70.4	72.9	71.6	69.0
		PMH-1 (C)	64.6	77.6	50.6	80.6	64.6	71.4	78.7
		PMH-3 (C)	64.9	78.2	60.6	79.6	64.9	75.5	79.2
		Bio-9681-C	61.1	77.0	46.4	70.4	61.1	73.5	69.4
		Seedtech-2324	66.0	78.7	50.6	80.1	66.0	70.8	79.2
	High (50x20 cm)	LTH-22	72.9	93.9	78.6	95.6	72.9	89.0	95.0
		NMH-1265	77.9	93.1	67.5	94.4	77.9	80.5	92.8
		Geo Premium Diamond	70.0	94.4	68.6	84.4	70.0	90.7	82.8
		PMH-1 (C)	70.4	97.1	63.1	97.8	70.4	85.6	95.6
		PMH-3 (C)	70.4	93.9	76.4	96.1	70.4	83.7	93.9
		Bio-9681-C	69.6	84.7	57.5	84.4	69.6	74.6	83.9
		Seedtech-2324	67.1	91.5	62.2	97.2	67.1	77.9	96.7
Mean of location		69.8	84.1	74.7	84.6	69.7	79.7	83.4	
200:65:80		70.2	82.2	64.1	84.2	70.1	81.3	83.0	
250:80:100		69.4	86.0	60.4	85.0	69.4	78.1	83.8	
C. D. at (5%)		2.5	2.0	4.9	1.0	2.5	1.8	0.9	
Significance		N.S.	S	N.S.	N.S.	N.S.	S	N.S.	
Normal (60x20 cm)		66.7	79.1	54.5	76.9	66.7	75.0	76.0	
High (50x20 cm)		72.9	89.1	70.0	92.2	72.7	84.5	90.8	
C. D. at (5%)		2.5	2.0	4.9	1.0	2.5	1.8	0.9	
Significance		S	S	S	S	S	S	S	
LTH-22		71.6	84.5	64.2	87.7	71.2	83.3	86.8	
NMH-1265		74.0	87.5	64.8	85.3	74.0	80.6	84.3	
Geo Premium Diamond		72.9	84.3	64.8	77.4	72.9	81.8	76.2	
PMH-1 (C)		69.7	87.3	62.8	88.5	69.7	81.9	87.0	
PMH-3 (C)		68.8	85.9	67.2	87.6	68.8	79.5	86.3	
Bio-9681-C		64.8	78.5	53.8	77.0	64.8	75.4	76.0	
Seedtech-2324		66.6	80.8	58.1	88.5	66.6	75.7	87.4	
C. D. at (5%)		4.6	3.8	9.3	1.8	4.6	3.4	1.7	
Significance		S	S	S	S	S	S	S	

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Plant height (cm)				
			Arbhavi	Hyderabad	Karimnagar	Kolhapur	Vagarai
200:65:80	Normal (60x20 cm)	LTH-22	230.7	258.0	265.7	168.0	202.8
		NMH-1265	198.5	252.0	253.2	170.3	189.5
		Geo Premium Diamond	199.2	249.0	256.2	142.3	179.4
		PMH-1 (C)	221.3	252.0	263.0	156.0	198.6
		PMH-3 (C)	202.6	258.7	280.9	144.7	197.5
		Bio-9681-C	196.4	242.7	253.2	158.0	187.6
		Seedtech-2324	220.3	253.0	267.7	184.0	193.4
	High (50x20 cm)	LTH-22	249.0	262.3	271.5	200.0	205.5
		NMH-1265	206.9	256.7	265.8	165.0	193.9
		Geo Premium Diamond	193.2	253.7	254.8	170.7	182.7
		PMH-1 (C)	237.7	257.0	277.5	176.7	204.7
		PMH-3 (C)	229.8	256.0	287.3	172.3	203.2
		Bio-9681-C	203.2	256.7	254.5	168.3	188.1
		Seedtech-2324	222.9	258.3	277.8	184.3	196.9
250:80:100	Normal (60x20 cm)	LTH-22	234.6	280.0	279.3	175.3	207.8
		NMH-1265	198.9	264.7	257.7	165.7	203.0
		Geo Premium Diamond	194.7	264.0	262.7	158.7	187.0
		PMH-1 (C)	220.7	260.0	277.0	180.0	204.7
		PMH-3 (C)	226.9	276.3	289.8	166.7	206.2
		Bio-9681-C	206.7	255.7	264.5	179.3	192.4
		Seedtech-2324	220.7	266.0	279.7	180.0	197.7
	High (50x20 cm)	LTH-22	246.3	264.0	280.7	202.7	210.2
		NMH-1265	208.0	259.0	266.7	179.7	206.4
		Geo Premium Diamond	206.5	255.0	268.0	176.3	192.0
		PMH-1 (C)	237.9	259.0	270.2	185.3	207.1
		PMH-3 (C)	236.3	259.0	279.8	178.3	209.9
		Bio-9681-C	206.1	259.7	246.0	180.3	195.3
		Seedtech-2324	230.3	262.0	286.8	213.7	201.0
Mean of location		217.4	258.9	269.2	174.4	198.0	
200:65:80		215.1	254.7	266.4	168.6	194.6	
250:80:100		219.6	263.2	272.1	180.1	201.5	
C. D. at (5%)		5.4	2.7	6.0	9.1	1.0	
Significance		N.S.	S	N.S.	S	S	
Normal (60x20 cm)		212.3	259.4	267.9	166.4	196.3	
High (50x20 cm)		222.4	258.5	270.5	182.4	199.8	
C. D. at (5%)		5.4	2.7	6.0	9.1	1.0	
Significance		S	N.S.	N.S.	S	S	
LTH-22		240.2	266.1	274.3	186.5	206.6	
NMH-1265		203.1	258.1	260.8	170.2	198.2	
Geo Premium Diamond		198.4	255.4	260.4	162.0	185.3	
PMH-1 (C)		229.4	257.0	271.9	174.5	203.8	
PMH-3 (C)		223.9	262.5	284.5	165.5	204.2	
Bio-9681-C		203.1	253.7	254.5	171.5	190.9	
Seedtech-2324		223.6	259.8	278.0	190.5	197.3	
C. D. at (5%)		10.1	5.0	11.3	17.0	1.8	
Significance		S	S	S	S	S	

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Days to 50% silking				
			Arbhavi	Hyderabad	Karimnagar	Kolhapur	Vagarai
200:65:80	Normal (60x20 cm)	LTH-22	59.3	61.0	53.3	55.7	55.0
		NMH-1265	59.3	59.3	52.3	53.3	56.7
		Geo Premium Diamond	58.7	56.7	53.3	53.0	52.7
		PMH-1 (C)	59.0	55.0	52.7	52.7	56.0
		PMH-3 (C)	60.3	56.3	53.7	50.7	56.7
		Bio-9681-C	58.3	57.0	52.0	51.3	50.0
		Seedtech-2324	62.0	58.3	53.7	59.7	55.3
	High (50x20 cm)	LTH-22	59.3	54.3	53.3	54.7	56.3
		NMH-1265	58.7	57.3	52.7	53.7	54.7
		Geo Premium Diamond	58.3	55.0	52.7	52.0	54.3
		PMH-1 (C)	58.7	53.3	53.0	50.3	54.7
		PMH-3 (C)	60.7	54.3	53.7	50.7	56.0
		Bio-9681-C	56.0	55.0	52.3	52.0	51.3
		Seedtech-2324	61.3	57.7	54.0	61.0	55.7
250:80:100	Normal (60x20 cm)	LTH-22	60.0	60.0	53.7	57.7	55.3
		NMH-1265	59.3	61.0	52.3	53.0	55.7
		Geo Premium Diamond	59.0	59.3	52.7	51.7	52.7
		PMH-1 (C)	59.0	61.0	53.0	51.0	54.7
		PMH-3 (C)	62.0	59.3	53.7	50.7	55.3
		Bio-9681-C	58.0	59.0	53.0	53.7	50.7
		Seedtech-2324	63.3	60.0	54.0	59.7	54.7
	High (50x20 cm)	LTH-22	59.3	57.3	53.0	55.7	55.7
		NMH-1265	58.3	58.7	52.7	54.0	55.3
		Geo Premium Diamond	57.3	58.3	53.0	53.0	54.3
		PMH-1 (C)	58.0	58.7	53.3	52.7	55.7
		PMH-3 (C)	61.3	59.0	53.7	50.7	56.7
		Bio-9681-C	56.7	58.0	53.3	54.0	51.3
		Seedtech-2324	60.7	59.0	53.7	60.3	56.7
Mean of location		59.4	57.8	53.1	53.9	54.6	
200:65:80		59.3	56.5	53.0	53.6	54.7	
250:80:100		59.5	59.2	53.2	54.1	54.6	
C. D. at (5%)		0.5	0.8	0.3	1.0	0.3	
Significance		N.S.	S	N.S.	N.S.	N.S.	
Normal (60x20 cm)		59.8	58.8	53.1	53.8	54.4	
High (50x20 cm)		58.9	56.9	53.2	53.9	54.9	
C. D. at (5%)		0.5	0.8	0.3	1.0	0.3	
Significance		S	S	N.S.	N.S.	S	
LTH-22		59.5	58.2	53.3	55.9	55.6	
NMH-1265		58.9	59.1	52.5	53.5	55.6	
Geo Premium Diamond		58.3	57.3	52.9	52.4	53.5	
PMH-1 (C)		58.7	57.0	53.0	51.7	55.3	
PMH-3 (C)		61.1	57.3	53.7	50.7	56.2	
Bio-9681-C		57.3	57.3	52.7	52.8	50.8	
Seedtech-2324		61.8	58.8	53.8	60.2	55.6	
C. D. at (5%)		1.0	1.4	0.6	1.9	0.6	
Significance		S	S	S	S	S	

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Days to maturity			Test weight (1000-seed weight)		
			Hyderabad	Kolhapur	Vagarai	Hyderabad	Karimnagar	Vagarai
200:65:80	Normal (60x20 cm)	LTH-22	91.3	90.0	105.0	346.7	348.7	343.3
		NMH-1265	93.0	89.0	107.7	286.7	358.0	370.0
		Geo Premium Diamond	91.0	89.3	101.7	336.7	403.3	366.7
		PMH-1 (C)	92.7	87.3	106.7	286.7	365.3	336.7
		PMH-3 (C)	92.7	89.7	106.7	340.0	332.7	336.7
		Bio-9681-C	91.7	87.3	98.3	346.7	380.0	350.0
		Seedtech-2324	89.7	92.0	105.3	333.3	310.0	343.3
	High (50x20 cm)	LTH-22	93.3	88.0	105.3	293.3	349.3	343.3
		NMH-1265	94.3	88.3	107.7	320.0	362.0	353.3
		Geo Premium Diamond	94.7	88.7	103.3	386.7	344.7	356.7
		PMH-1 (C)	93.7	88.0	104.7	346.7	352.7	340.0
		PMH-3 (C)	94.7	90.3	106.0	393.3	325.3	343.3
		Bio-9681-C	94.3	88.0	99.0	380.0	364.0	343.3
		Seedtech-2324	93.3	94.3	105.7	340.0	322.7	343.3
250:80:100	Normal (60x20 cm)	LTH-22	94.7	91.0	105.7	426.7	373.3	350.0
		NMH-1265	96.3	90.0	107.7	393.3	368.7	366.7
		Geo Premium Diamond	96.0	89.7	101.7	346.7	428.7	366.7
		PMH-1 (C)	94.0	89.7	104.7	436.7	372.0	336.7
		PMH-3 (C)	96.3	89.7	105.3	393.3	346.0	340.0
		Bio-9681-C	94.7	89.0	99.0	366.7	384.0	346.7
		Seedtech-2324	95.0	93.7	104.7	336.7	342.0	356.7
	High (50x20 cm)	LTH-22	92.3	90.0	105.3	350.0	360.7	343.3
		NMH-1265	93.0	89.3	108.0	306.7	360.7	346.7
		Geo Premium Diamond	92.7	90.3	102.3	320.0	415.3	353.3
		PMH-1 (C)	92.3	87.3	105.7	316.7	364.0	353.3
		PMH-3 (C)	92.7	87.7	106.7	420.0	329.3	343.3
		Bio-9681-C	94.0	87.7	99.3	356.7	380.0	343.3
		Seedtech-2324	94.3	91.7	106.7	330.0	332.7	343.3
Mean of location		93.5	89.5	104.5	351.3	359.9	348.6	
200:65:80		92.9	89.3	104.5	338.3	351.3	347.9	
250:80:100		94.2	89.8	104.5	364.3	368.4	349.3	
C. D. at (5%)		0.5	1.3	0.4	11.3	9.9	3.1	
Significance		S	N.S.	N.S.	S	S	N.S.	
Normal (60x20 cm)		93.5	89.8	104.3	355.5	365.2	350.7	
High (50x20 cm)		93.5	89.3	104.7	347.1	354.5	346.4	
C. D. at (5%)		0.5	1.3	0.4	11.3	9.9	3.1	
Significance		N.S.	N.S.	S	N.S.	S	S	
LTH-22		92.9	89.8	105.3	354.2	358.0	345.0	
NMH-1265		94.2	89.2	107.8	326.7	362.3	359.2	
Geo Premium Diamond		93.6	89.5	102.3	347.5	398.0	360.8	
PMH-1 (C)		93.2	88.1	105.4	346.7	363.5	341.7	
PMH-3 (C)		94.1	89.3	106.2	386.7	333.3	340.8	
Bio-9681-C		93.7	88.0	98.9	362.5	377.0	345.8	
Seedtech-2324		93.1	92.9	105.6	335.0	326.8	346.7	
C. D. at (5%)		1.0	2.4	0.7	21.2	18.5	5.7	
Significance		N.S.	S	S	S	S	S	

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Net return (Rs./ha)				B:C ratio			
			Arbhavi	Hyderabad	Karimnagar	Vagarai	Arbhavi	Hyderabad	Karimnagar	Vagarai
200:65:80	Normal (60x20 cm)	LTH-22	110106	93191	82660	68297	4.49	2.78	2.43	2.05
		NMH-1265	104466	74315	66106	63729	4.31	2.42	2.14	1.98
		Geo Premium Diamond	103456	87410	64010	49609	4.28	2.67	2.11	1.76
		PMH-1 (C)	97218	63942	56700	54436	4.08	2.22	1.98	1.83
		PMH-3 (C)	70224	62670	68167	54719	3.23	2.20	2.18	1.84
		Bio-9681-C	73192	69299	41234	39016	3.32	2.32	1.71	1.60
		Seedtech-2324	68546	61266	52168	44549	3.17	2.17	1.90	1.68
	High (50x20 cm)	LTH-22	104767	77020	72546	77462	4.13	24.30	2.23	2.18
		NMH-1265	101960	66786	59865	73297	4.04	22.40	2.02	2.12
		Geo Premium Diamond	111743	55235	58232	54090	4.34	20.27	1.99	1.83
		PMH-1 (C)	94431	70693	38682	76292	3.82	23.13	1.66	2.17
		PMH-3 (C)	63398	77827	52883	76686	2.89	24.45	1.90	2.17
		Bio-9681-C	57797	43750	31687	58348	2.73	18.14	1.54	1.89
		Seedtech-2324	70757	47502	46389	65646	3.11	18.83	1.79	2.00
250:80:100	Normal (60x20 cm)	LTH-22	111213	81563	90365	72226	4.52	2.45	2.51	2.08
		NMH-1265	106963	68222	65213	71383	4.39	2.22	2.09	2.06
		Geo Premium Diamond	110440	76765	74090	54160	4.50	2.37	2.24	1.81
		PMH-1 (C)	97305	53264	54999	64580	4.08	1.95	1.92	1.96
		PMH-3 (C)	81489	56160	69553	66484	3.58	2.00	2.16	1.99
		Bio-9681-C	73969	59712	46807	44351	3.34	2.06	1.78	1.66
		Seedtech-2324	72161	50018	61938	51530	3.29	1.89	2.04	1.77
	High (50x20 cm)	LTH-22	106304	81611	76364	85818	4.17	2.40	2.26	2.27
		NMH-1265	100641	77672	63303	83191	4.00	2.34	2.04	2.23
		Geo Premium Diamond	112198	57361	64124	62081	4.35	1.99	2.06	1.92
		PMH-1 (C)	97622	72276	37998	86171	3.91	2.24	1.63	2.27
		PMH-3 (C)	62343	58036	64801	87095	2.86	2.00	2.07	2.29
		Bio-9681-C	60265	65532	32357	61352	2.80	2.13	1.53	1.91
		Seedtech-2324	68772	54159	55709	70845	3.05	1.93	1.92	2.05
Mean of location		89062.3	66544.8	58891.1		3.74	7.08	1.99		
200:65:80		88004	67922	56524		3.71	12.02	1.97		
250:80:100		90120	65168	61259		3.78	2.14	2.02		
C. D. at (5%)		4494.9	6305.7	3297.4		0.14	0.84	0.06		
Significance		N.S.	N.S.	S		N.S.	S	N.S.		
Normal (60x20 cm)		91482	68414	63858		3.90	2.27	2.09		
High (50x20 cm)		86643	64676	53924		3.59	11.90	1.90		
C. D. at (5%)		4494.9	6305.7	3297.4		0.14	0.84	0.06		
Significance		S	N.S.	S		S	S	S		
LTH-22		108097	83346	80484		4.33	7.98	2.36		
NMH-1265		103507	71748	63622		4.19	7.34	2.07		
Geo Premium Diamond		109459	69193	65114		4.37	6.82	2.10		
PMH-1 (C)		96644	65044	47095		3.97	7.39	1.80		
PMH-3 (C)		69364	63673	63851		3.14	7.66	2.08		
Bio-9681-C		66306	59573	38021		3.05	6.16	1.64		
Seedtech-2324		70059	53236	54051		3.16	6.21	1.91		
C. D. at (5%)		8409.2	11796.9	6168.8		0.26	1.58	0.10		
Significance		S	S	S		S	N.S.	S		

Table 7: Performance of pre-release popcorn genotypes under varying planting density and nutrients levels in Zone I.

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Grain yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% silking	Barrenness in maize (%)
150:50:60	Normal (60x20 cm)	Bajaura Popcorn-2	4103	79.2	81.0	170.2	57.7	2.9
		VL Pop com-2	4111	78.7	78.2	165.2	54.3	6.1
		VL Pop com-C	3956	74.7	74.7	163.3	56.7	5.3
		Bio-9681-Filler	9169	68.7	68.4	210.2	58.3	1.9
	High (50x20 cm)	Bajaura Popcorn-2	3812	102.8	98.2	162.9	58.3	9.9
		VL Pop com-2	4339	106.0	99.1	168.2	54.7	9.3
		VL Pop com-C	4250	106.5	100.0	167.7	56.3	8.8
		Bio-9681-Filler	8932	76.1	80.3	195.5	57.3	4.7
200:60:80	Normal (60x20 cm)	Bajaura Popcorn-2	4366	80.1	82.0	163.6	56.7	4.4
		VL Pop com-2	4084	82.9	84.3	171.2	53.7	5.4
		VL Pop com-C	4287	74.2	75.2	176.5	56.0	3.1
		Bio-9681-Filler	10285	70.3	68.9	211.9	56.7	0.7
	High (50x20 cm)	Bajaura Popcorn-2	4279	101.0	104.6	159.5	56.7	5.4
		VL Pop com-2	4732	103.3	97.7	167.1	54.0	8.3
		VL Pop com-C	4898	105.7	102.3	174.3	55.7	6.8
		Bio-9681-Filler	10552	90.3	81.4	217.3	56.7	3.7
Mean of location			5634.7	87.5	86.0	177.8	56.2	5.4
150:50:60			5334	86.6	85.0	175.4	56.7	6.1
200:60:80			5936	88.5	87.0	180.2	55.8	4.7
C. D. at (5%)			169.0	2.4	2.3	2.9	0.8	1.2
Significance			S	N.S.	N.S.	S	S	S
Normal (60x20 cm)			5545	76.1	76.6	179.0	56.3	3.7
High (50x20 cm)			5724	98.9	95.5	176.6	56.2	7.1
C. D. at (5%)			169.0	2.4	2.3	2.9	0.8	1.2
Significance			S	S	S	N.S.	N.S.	S
Bajaura Popcorn-2			4140	90.8	91.4	164.0	57.3	5.7
VL Pop com-2			4316	92.7	89.8	168.0	54.2	7.3
VL Pop com-C			4348	90.3	88.1	170.5	56.2	6.0
Bio-9681-Filler			9735	76.3	74.7	208.7	57.3	2.8
C. D. at (5%)			239.0	3.3	3.2	4.0	1.1	1.8
Significance			S	S	S	S	S	S

Table 8: Performance of pre-release popcom genotypes under varying planting density and nutrients levels in Zone II.

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% silking	Net return (Rs./ha)	BC ratio
150:50:60	Normal (60x20 cm)	Bajaura Popcorn-2	2118	81.9	80.6	144.0	48.7	26560	0.54
		VL Pop com-2	2715	81.3	79.9	146.3	46.7	48000	0.97
		VL Pop com-C	2868	79.2	79.9	153.3	47.0	53485	1.08
		Bio-9681-Filler	7660	82.6	77.1	189.3	49.3	57758	1.17
	High (60x15 cm)	Bajaura Popcorn-2	2493	104.9	100.7	147.3	50.0	39066	0.77
		VL Pop com-2	2743	105.6	102.8	153.3	47.3	48041	0.95
		VL Pop com-C	3208	109.0	104.9	161.7	48.7	64744	1.28
		Bio-9681-Filler	8576	104.9	105.6	180.7	49.7	69634	1.38
200:60:80	Normal (60x20 cm)	Bajaura Popcorn-2	2264	81.9	79.9	152.7	48.3	27615	0.51
		VL Pop com-2	2931	81.3	81.3	159.0	46.0	51549	0.96
		VL Pop com-C	3583	81.9	79.9	165.0	46.3	74983	1.40
		Bio-9681-Filler	7965	81.9	82.6	199.0	48.0	57856	1.08
	High (60x15 cm)	Bajaura Popcorn-2	2535	104.9	99.3	159.0	49.3	36381	0.67
		VL Pop com-2	3014	106.9	104.9	162.3	47.0	53583	0.98
		VL Pop com-C	2903	106.3	101.4	166.7	47.3	49595	0.91
		Bio-9681-Filler	7792	107.6	102.1	196.0	49.3	54468	1.00
Mean of location			4085.5	45.1	43.9	164.7	48.1	50832.4	0.98
150:50:60			4048	93.7	91.4	159.5	48.4	50911	1.02
250:80:100			4123	94.1	91.4	170.0	47.7	50754	0.94
C. D. at (5%)			267.8	0.8	1.0	5.2	0.6	7647.7	0.15
Significance			N.S.	N.S.	N.S.	S	S	N.S.	N.S.
Normal (60x20 cm)			4013	81.5	80.1	163.6	47.5	49726	0.96
High (60x15 cm)			4158	106.3	102.7	165.9	48.6	51939	0.99
C. D. at (5%)			267.8	0.8	1.0	5.2	0.6	7647.7	0.15
Significance			N.S.	S	S	N.S.	S	N.S.	N.S.
Bajaura Popcorn-2			2352	93.4	90.1	150.8	49.1	32406	0.62
VL Pop com-2			2851	93.8	92.2	155.3	46.8	50293	0.97
VL Pop com-C			3141	94.1	91.5	161.7	47.3	60702	1.17
Bio-9681-Filler			7998	94.3	91.8	191.3	49.1	59929	1.16
C. D. at (5%)			378.7	1.1	1.4	7.3	0.8	10815.5	0.21
Significance			S	N.S.	N.S.	S	S	S	S

Table 9: Performance of pre-release popcorn genotypes under varying planting density and nutrients levels in Zone IV.

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Grain yield (kg/ha)	Plant height (cm)	Days to 50% silking	Test weight (1000-seed weight)	Net return (Rs./ha)	BC ratio
150:50:60	Normal (60x20 cm)	Bajaura Popcom-2	2350	169.0	47.7	144.0	20600	1.34
		VL Pop com-2	2713	183.0	48.0	152.7	33126	1.55
		VL Pop com-C	2934	177.3	49.0	164.7	40767	1.67
		Bio-9681-Filler	9050	227.0	49.7	380.0	251760	5.16
	High (50x20 cm)	Bajaura Popcom-2	2091	164.2	48.0	141.3	10657	1.17
		VL Pop com-2	2662	176.7	48.0	144.7	30371	1.49
		VL Pop com-C	2926	175.8	47.7	153.3	39463	1.64
		Bio-9681-Filler	7498	228.0	49.0	364.0	197202	4.21
200:60:80	Normal (60x20 cm)	Bajaura Popcom-2	2587	167.7	47.3	140.7	26715	1.43
		VL Pop com-2	2856	180.0	48.3	136.7	36000	1.58
		VL Pop com-C	3079	185.8	48.3	155.3	43702	1.70
		Bio-9681-Filler	9309	224.3	49.0	391.3	258642	5.14
	High (50x20 cm)	Bajaura Popcom-2	2413	168.2	47.7	149.3	19724	1.31
		VL Pop com-2	2639	186.3	47.3	146.0	27498	1.43
		VL Pop com-C	2760	187.5	47.3	151.3	31703	1.50
		Bio-9681-Filler	8746	232.5	49.0	367.3	238198	4.75
Mean of location			4163.2	189.6	48.2	205.2	81633.0	2.32
150:50:60			4028	187.6	48.4	205.6	77993	2.28
200:60:80			4299	191.5	48.0	204.8	85273	2.35
C. D. at (5%)			229.3	4.1	0.4	7.6	7912.2	0.13
Significance			S	N.S.	N.S.	N.S.	N.S.	N.S.
Normal (60x20 cm)			4360	189.3	48.4	208.2	88914	2.45
High (50x20 cm)			3967	189.9	48.0	202.2	74352	2.19
C. D. at (5%)			229.3	4.1	0.4	7.6	7912.2	0.13
Significance			S	N.S.	N.S.	N.S.	S	S
Bajaura Popcom-2			2360	167.3	47.7	143.8	19424	1.31
VL Pop com-2			2717	181.5	47.9	145.0	31749	1.51
VL Pop com-C			2925	181.6	48.1	156.2	38909	1.63
Bio-9681-Filler			8651	228.0	49.2	375.7	236450	4.81
C. D. at (5%)			324.3	5.8	0.6	10.7	11189.6	0.18
Significance			S	S	S	S	S	S

Table 10: Performance of pre release popcorn genotypes under varying planting density and nutrients levels in Zone V.

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Grain yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% silking
150:50:60	Normal (60x25 cm)	Bajaura Popcorn-2	2180	55.9	46.7	170.0	54.0
		VL Pop com-2	1572	55.6	46.7	165.0	53.7
		VL Pop com-C	2199	60.4	51.5	175.0	53.0
		Bio-9681-Filler	4734	64.4	56.3	200.0	53.3
	High (60x20 cm)	Bajaura Popcorn-2	2769	67.8	59.3	173.3	53.3
		VL Pop com-2	1997	68.1	59.3	169.3	54.3
		VL Pop com-C	2562	68.9	60.0	180.0	53.0
		Bio-9681-Filler	5170	69.3	61.5	203.3	53.3
200:60:80	Normal (60x25 cm)	Bajaura Popcorn-2	2509	62.2	53.7	175.0	54.3
		VL Pop com-2	1685	58.9	50.0	170.0	54.3
		VL Pop com-C	2404	65.2	56.3	183.3	53.7
		Bio-9681-Filler	5295	71.9	63.0	206.7	53.7
	High (60x20 cm)	Bajaura Popcorn-2	2907	71.1	62.2	175.0	55.0
		VL Pop com-2	2022	68.9	60.0	173.3	55.3
		VL Pop com-C	2720	72.6	63.7	183.3	53.0
		Bio-9681-Filler	5669	76.3	67.4	216.7	53.7
Mean of location			3024.6	59.5	51.6	182.5	53.8
150:50:60			2898	63.8	55.1	179.5	53.5
200:60:80			3151	68.4	59.5	185.4	54.1
C. D. at (5%)			101.6	1.3	1.5	5.4	0.4
Significance			S	S	S	S	S
Normal (60x25 cm)			2822	61.8	53.0	180.6	53.8
High (60x20 cm)			3227	70.4	61.7	184.3	53.9
C. D. at (5%)			101.6	1.3	1.5	5.4	0.4
Significance			S	S	S	N.S.	N.S.
Bajaura Popcorn-2			2591	64.3	55.5	173.3	54.2
VL Pop com-2			1819	62.9	54.0	169.4	54.4
VL Pop com-C			2471	66.8	57.9	180.4	53.2
Bio-9681-Filler			5217	70.5	62.0	206.7	53.5
C. D. at (5%)			143.7	1.8	2.1	7.6	0.5
Significance			S	S	S	S	S

Table 11: Performance of pre-release sweet corn genotypes under varying planting density and nutrients levels in Zone I.

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Cob yield (kg/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% silking	Barrenness (%)	Total soluble solids at harvest (%)
100:50:60	75x30 cm	Bisco Madhu	16558	78.7	181.2	58.7	1.7	21.2
		Bajaura Sweet Corn	10659	61.0	176.5	55.3	7.7	28.8
		FSCH 18	13265	82.4	162.6	53.3	1.1	22.3
		KSCH-333	13388	80.1	176.1	55.7	3.3	21.0
		Madhuri-C	7226	45.8	185.6	55.7	7.1	22.7
		WOSC-C	12711	70.4	201.2	56.3	8.7	21.9
	75x45 cm	Bisco Madhu	16574	99.5	189.5	58.3	2.7	22.1
		Bajaura Sweet Corn	13295	85.2	187.8	55.7	5.6	27.8
		FSCH 18	17706	99.1	171.3	53.3	2.2	21.9
		KSCH-333	17574	87.3	171.7	56.3	8.2	22.3
		Madhuri-C	7669	45.0	190.8	56.3	3.2	22.4
		WOSC-C	12228	82.7	194.9	57.7	9.3	22.9
200:60:80	75x30 cm	Bisco Madhu	17652	79.1	192.5	58.7	1.1	22.8
		Bajaura Sweet Corn	12016	69.1	181.0	55.0	1.9	30.3
		FSCH 18	17212	83.3	176.1	54.7	0.6	23.0
		KSCH-333	17561	77.3	192.2	56.0	1.7	20.8
		Madhuri-C	9061	45.3	194.1	56.3	2.8	20.7
		WOSC-C	12655	77.1	212.1	56.7	1.8	21.3
	75x45 cm	Bisco Madhu	17934	101.4	192.8	59.3	4.0	20.3
		Bajaura Sweet Corn	13370	80.8	187.8	55.7	3.3	28.0
		FSCH 18	16952	97.2	178.2	54.3	2.8	21.5
		KSCH-333	18469	98.6	187.4	56.3	6.6	20.6
		Madhuri-C	8821	45.2	180.2	57.7	6.6	22.2
		WOSC-C	13349	83.8	211.6	58.0	7.7	24.6
Mean of location			13912.7	77.3	186.5	56.3	4.2	23.0
100:50:60			13238	76.4	182.4	56.1	5.1	23.1
200:60:80			14588	78.2	190.5	56.6	3.4	23.0
C. D. at (5%)			408.6	2.0	2.8	0.6	1.0	0.8
Significance			S	N.S.	S	N.S.	S	N.S.
75x30 cm			13330	70.8	185.9	56.0	3.3	23.1
75x45 cm			14495	83.8	187.0	56.6	5.2	23.0
C. D. at (5%)			408.6	2.0	2.8	0.6	1.0	0.8
Significance			S	S	N.S.	N.S.	S	N.S.
Bisco Madhu			17179	89.7	189.0	58.8	2.4	21.6
Bajaura Sweet Corn			12335	74.0	183.3	55.4	4.6	28.7
FSCH 18			16284	90.5	172.1	53.9	1.7	22.2
KSCH-333			16748	85.8	181.9	56.1	5.0	21.2
Madhuri-C			8195	45.4	187.7	56.5	4.9	22.0
WOSC-C			12736	78.5	205.0	57.2	6.9	22.7
C. D. at (5%)			707.7	3.5	4.8	1.0	1.8	1.5
Significance			S	S	S	S	S	S

Table 12: Performance of pre-release sweet corn genotypes under varying planting density and nutrients levels in Zone II.

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Cob yield (kg/ha)	Green fodder yield (kg/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% silking	Net return (Rs./ha)	BC ratio
150:50:60	Normal (60x20 cm)	Bisco Madhu	13264	14590	83.3	180.7	50.3	44313	0.89
		Bajaura Sweet Corn	13264	9188	83.3	175.0	49.7	13911	0.28
		FSCH 18	12986	13116	80.6	178.3	46.3	41172	0.83
		KSCH-333	13889	15556	83.3	182.3	51.0	49029	0.98
		Madhuri-C	8194	9014	77.8	180.7	50.7	8320	0.17
		WOSC-C	9514	12463	81.9	185.0	51.0	19686	0.39
	High (60x15 cm)	Bisco Madhu	13472	14819	105.6	177.7	51.3	44646	0.88
		Bajaura Sweet Corn	9722	9819	102.8	183.7	50.0	17146	0.34
		FSCH 18	13056	13924	102.8	175.0	48.0	41250	0.81
		KSCH-333	14167	16217	104.9	177.3	52.0	50210	0.98
		Madhuri-C	8958	13569	103.5	175.7	56.3	16312	0.32
		WOSC-C	10625	14139	103.5	185.7	53.0	26882	0.53
250:80:100	Normal (60x20 cm)	Bisco Madhu	13403	15174	84.7	184.0	49.7	41550	0.77
		Bajaura Sweet Corn	9236	9591	81.3	178.7	49.0	10968	0.20
		FSCH 18	13056	13517	84.0	180.0	47.0	37811	0.70
		KSCH-333	14653	16411	85.4	183.0	49.7	50288	0.93
		Madhuri-C	8264	10382	84.7	183.7	50.7	5925	0.11
		WOSC-C	10278	14178	81.3	187.3	51.0	21804	0.40
	High (60x15 cm)	Bisco Madhu	14583	16042	112.5	180.7	51.3	47755	0.86
		Bajaura Sweet Corn	9653	10330	104.2	185.7	49.3	12459	0.22
		FSCH 18	13194	14026	107.6	180.0	47.7	37405	0.67
		KSCH-333	14931	17089	110.4	184.3	52.0	50885	0.91
		Madhuri-C	9097	10299	101.4	187.0	52.0	9095	0.16
		WOSC-C	10764	14333	102.8	187.0	52.3	23130	0.41
Mean of location			11585.6	13241.0	45.1	181.6	50.5	30081.3	0.57
150:50:60			11412	13035	92.8	179.8	50.8	31073	0.62
250:80:100			11759	13448	95.0	183.4	50.1	29089	0.53
C. D. at (5%)			422.3	341.7	0.9	3.3	0.9	2822.7	0.05
Significance			N.S.	S	S	S	N.S.	N.S.	S
Normal (60x20 cm)			11319	12765	82.6	181.6	49.7	28732	0.55
High (60x15 cm)			11852	13717	105.2	181.6	51.3	31431	0.59
C. D. at (5%)			422.3	341.7	0.9	3.3	0.9	2822.7	0.05
Significance			S	S	S	N.S.	S	N.S.	N.S.
Bisco Madhu			13681	15156	96.5	180.8	50.7	44566	0.85
Bajaura Sweet Corn			9427	9732	92.9	180.8	49.5	13621	0.26
FSCH 18			13073	13646	93.8	178.3	47.3	39410	0.75
KSCH-333			14410	16318	96.0	181.8	51.2	50103	0.95
Madhuri-C			8628	10816	91.8	181.8	52.4	9913	0.19
WOSC-C			10295	13778	92.4	186.3	51.8	22876	0.43
C. D. at (5%)			731.4	591.8	1.5	5.8	1.5	4889.1	0.09
Significance			S	S	S	N.S.	S	S	S

Table 13: Performance of pre-release sweet corn genotypes under varying planting density and nutrients levels in Zone IV.

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Green cob yield (kg/ha)	Green fodder Yield (kg/ha)	Cobs ('000 ha)	Plant height (cm)	Days to 50% silking	Days to maturity	Total soluble solids (%)	Net Returns	BC Ratio
			Hyderabad								
150:50:60	Normal (60x20 cm)	Bisco Madhu	21634	24557	72.4	208.3	52.3	78.7	14.7	223335	4.67
		Bajaura Sweet Corn	14260	18281	62.3	202.3	51.0	80.7	24.4	128567	3.11
		FSCH 18	17230	19761	78.9	194.0	48.7	79.0	15.5	165695	3.72
		KSCH-333	19452	21686	67.4	209.3	51.7	82.0	16.1	194276	4.19
		Madhuri-C	16424	18416	57.0	213.0	51.7	78.0	16.5	154670	3.54
		WOSC-C	18260	21475	69.5	224.7	52.0	82.0	15.4	179765	3.96
	High (50x20 cm)	Bisco Madhu	17904	20403	71.5	218.3	51.0	84.0	14.7	168217	3.51
		Bajaura Sweet Corn	13555	16867	66.8	205.0	51.3	82.7	20.5	112493	2.68
		FSCH 18	15125	21759	74.2	202.0	49.0	82.3	16.7	136225	3.03
		KSCH-333	17853	22100	71.6	213.3	52.7	83.0	16.3	169306	3.53
		Madhuri-C	15453	18127	72.8	217.0	51.7	85.0	13.8	136529	3.04
		WOSC-C	15809	19233	79.9	224.7	53.3	83.7	15.7	141907	3.12
200:60:80	Normal (60x20 cm)	Bisco Madhu	28091	32615	69.1	241.0	54.3	87.3	14.8	302677	5.52
		Bajaura Sweet Corn	17111	17663	62.4	216.0	52.0	86.0	22.7	155961	3.33
		FSCH 18	18573	21223	73.1	217.7	50.3	84.7	15.4	177069	3.64
		KSCH-333	21394	21443	63.1	205.0	53.7	84.3	15.3	211141	4.15
		Madhuri-C	16668	19237	60.6	204.0	51.7	86.3	14.7	152219	3.27
		WOSC-C	23427	22591	61.8	222.0	54.0	86.7	17.6	236689	4.53
	High (50x20 cm)	Bisco Madhu	21404	27129	83.1	223.0	54.7	84.3	15.8	210751	3.88
		Bajaura Sweet Corn	15830	20190	74.0	188.3	53.0	83.3	18.2	136920	2.87
		FSCH 18	18592	21083	79.0	194.3	50.3	83.7	15.6	170953	3.33
		KSCH-333	16219	23167	69.6	196.7	53.3	82.7	15.0	144561	2.97
		Madhuri-C	15207	18873	68.7	204.0	54.0	83.7	14.1	128123	2.75
		WOSC-C	18812	21206	74.7	220.3	54.3	85.7	16.2	173720	3.37
Mean of location			18095.2	21211.9	70.1	211.0	52.2	83.3	16.5	171323.7	3.57
150:50:60			16913	20222	70.4	211.0	51.4	81.8	16.7	159249	3.51
200:60:80			19277	22202	69.9	211.0	53.0	84.9	16.3	183399	3.63
C. D. at (5%)			805.8	896.4	2.5	4.9	0.4	0.8	0.6	9762.9	0.15
Significance			S	S	N.S.	N.S.	S	S	N.S.	S	N.S.
Normal (60x20 cm)			19377	21579	66.5	213.1	51.9	83.0	16.9	190172	3.97
High (50x20 cm)			16813	20845	73.8	208.9	52.4	83.7	16.0	152475	3.17
C. D. at (5%)			805.8	896.4	2.5	4.9	0.4	0.8	0.6	9762.9	0.15
Significance			S	N.S.	S	N.S.	S	N.S.	S	S	S
Bisco Madhu			22258	26176	74.0	222.7	53.1	83.6	15.0	226245	4.39
Bajaura Sweet Corn			15189	18250	66.4	202.9	51.8	83.2	21.4	133485	3.00
FSCH 18			17380	20957	76.3	202.0	49.6	82.4	15.8	162486	3.43
KSCH-333			18729	22099	67.9	206.1	52.8	83.0	15.7	179821	3.71
Madhuri-C			15938	18663	64.8	209.5	52.3	83.3	14.8	142885	3.15
WOSC-C			19077	21126	71.5	222.9	53.4	84.5	16.2	183020	3.74
C. D. at (5%)			1395.7	1552.5	4.3	8.5	0.7	1.4	1.0	16909.9	0.25
Significance			S	S	S	S	S	N.S.	S	S	S

Table 14: Performance of pre-release sweet corn genotypes under varying planting density and nutrients levels in Zone V.

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Cobs ('000/ha)	Plant height (cm)	Days to 50% silking	Barrenness (%)	Net return (Rs./ha)	BC ratio
100:50:60	High (75x30 cm)	Bisco Madhu	37.8	154.3	51.7	2.7	51401	3.13
		Bajaura Sweet Corn	38.9	155.7	51.0	1.7	53623	3.22
		FSCH 18	41.1	139.0	51.3	1.0	58065	3.40
		KSCH-333	39.4	147.3	52.0	1.3	54733	3.27
		Madhuri-C	40.5	155.3	51.7	1.3	56955	3.36
		WOSC-C	40.5	133.3	50.7	1.0	56955	3.36
	Normal (75x45 cm)	Bisco Madhu	27.2	150.0	50.7	1.3	56510	3.25
		Bajaura Sweet Corn	27.2	153.0	51.0	1.0	56510	3.25
		FSCH 18	28.9	163.7	52.7	0.7	61508	3.45
		KSCH-333	28.3	139.3	51.7	1.0	59842	3.38
		Madhuri-C	26.7	157.3	51.7	1.0	54844	3.18
		WOSC-C	27.8	147.3	51.0	1.0	58176	3.31
200:60:80	High (75x30 cm)	Bisco Madhu	41.7	160.7	51.3	1.7	56778	3.14
		Bajaura Sweet Corn	41.1	160.0	50.3	2.0	55667	3.10
		FSCH 18	42.2	146.3	50.7	0.3	57889	3.18
		KSCH-333	42.2	153.3	51.3	0.3	57889	3.18
		Madhuri-C	42.2	157.7	51.3	0.7	57889	3.18
		WOSC-C	39.4	142.3	50.3	1.3	52335	2.97
	Normal (75x45 cm)	Bisco Madhu	29.4	158.3	50.3	0.7	60776	3.21
		Bajaura Sweet Corn	28.9	158.7	50.7	0.3	59110	3.15
		FSCH 18	29.4	168.0	52.0	0.3	60776	3.21
		KSCH-333	29.4	149.3	51.0	0.3	60776	3.21
		Madhuri-C	28.3	161.0	51.0	0.7	57444	3.09
		WOSC-C	28.9	152.0	50.3	0.7	59110	3.15
Mean of location			34.5	152.6	51.2	1.0	57315.0	3.22
100:50:60			33.7	149.6	51.4	1.3	56594	3.30
200:60:80			35.3	155.6	50.9	0.8	58037	3.15
C. D. at (5%)			0.7	2.3	0.3	0.3	1827.8	0.07
Significance			S	S	S	S	N.S.	S
High (75x30 cm)			40.6	150.4	51.1	1.3	55848	3.21
Normal (75x45 cm)			28.4	154.8	51.2	0.8	58782	3.24
C. D. at (5%)			0.7	2.3	0.3	0.3	1827.8	0.07
Significance			S	S	N.S.	S	S	N.S.
Bisco Madhu			34.0	155.8	51.0	1.6	56366	3.18
Bajaura Sweet Corn			34.0	156.8	50.8	1.3	56228	3.18
FSCH 18			35.4	154.3	51.7	0.6	59560	3.31
KSCH-333			34.8	147.3	51.5	0.8	58310	3.26
Madhuri-C			34.4	157.8	51.4	0.9	56783	3.20
WOSC-C			34.2	143.8	50.6	1.0	56644	3.20
C. D. at (5%)			1.2	4.0	0.6	0.6	3165.9	0.12
Significance			N.S.	S	S	S	N.S.	N.S.

Table 15: Performance of pre-release baby corn genotypes under varying planting density and nutrients levels in Zone I.

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Baby corn yield with husk (kg/ha)		Baby corn yield without husk (kg/ha)		Green fodder yield (kg/ha)	
			Almora	Bajaura	Almora	Bajaura	Almora	Bajaura
150:50:60	Normal (45x20 cm)	Vivek Hybrids-27	18382	4981	2331	728	42113	17542
		HM-4 (C)	11633	2380	1584	471	30833	5570
		Seed Tech-2324-Filler	15779	4904	2838	855	47885	18615
		HQPM-4 Filler	14775	6918	2519	973	68998	22529
	High (40x15 cm)	Vivek Hybrids-27	18651	5359	3131	668	50309	17710
		HM-4 (C)	12605	2224	1870	338	34198	6762
		Seed Tech-2324-Filler	16707	5152	3644	976	49015	20602
		HQPM-4 Filler	15623	5808	2858	1215	69276	21178
200:60:80	Normal (45x20 cm)	Vivek Hybrids-27	19938	7363	2875	766	43420	20907
		HM-4 (C)	10827	2867	1365	384	30340	7230
		Seed Tech-2324-Filler	19282	4906	3406	906	50733	19844
		HQPM-4 Filler	16184	5919	2921	984	68942	23583
	High (40x15 cm)	Vivek Hybrids-27	20858	6832	3233	818	49898	23655
		HM-4 (C)	11282	2679	1555	532	35069	8172
		Seed Tech-2324-Filler	19530	6487	3816	1159	52893	22222
		HQPM-4 Filler	16327	6004	2982	1338	73428	25044
Mean of location			16149.0	5048.9	2683.0	819.5	49834.4	17572.9
150:50:60			15520	4716	2597	778	49078	16314
200:60:80			16778	5382	2769	861	50590	18832
C. D. at (5%)			980.8	226.2	180.2	37.5	2003.9	563.5
Significance			S	S	N.S.	S	N.S.	S
Normal (45x20 cm)			15850	5030	2480	758	47908	16978
High (40x15 cm)			16448	5068	2886	881	51761	18168
C. D. at (5%)			980.8	226.2	180.2	37.5	2003.9	563.5
Significance			N.S.	N.S.	S	S	S	S
Vivek Hybrids-27			19457	6134	2892	745	46435	19954
HM-4 (C)			11587	2537	1593	431	32610	6934
Seed Tech-2324-Filler			17825	5362	3426	974	50132	20321
HQPM-4 Filler			15727	6162	2820	1128	70161	23084
C. D. at (5%)			1387.1	319.8	254.8	53.0	2833.9	796.9
Significance			S	S	S	S	S	S

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N:P ₂ O ₅ :K ₂ O	Density	Genotype	Plants ('000/ha)		Plant height (cm)		Days to first picking	No. of picking	Turcicum Leaf Blight (1-5 scale score)
			Almora	Bajaura	Almora	Bajaura			
150:50:60	Normal (45x20 cm)	Vivek Hybrids-27	132.2	82.4	176.9	160.0	49.7	10.0	1.0
		HM-4 (C)	82.2	28.8	184.9	147.1	54.7	8.0	2.7
		Seed Tech-2324-Filler	132.2	81.3	193.1	171.8	55.3	8.0	1.7
		HQPM-4 Filler	117.8	79.5	227.5	193.9	58.7	8.7	1.0
	High (40x15 cm)	Vivek Hybrids-27	193.3	103.4	178.0	163.4	51.0	9.7	1.8
		HM-4 (C)	97.8	27.9	194.6	151.4	56.0	7.0	2.5
		Seed Tech-2324-Filler	188.9	107.6	186.9	175.2	55.0	7.7	2.3
		HQPM-4 Filler	168.9	89.9	228.1	191.1	59.3	8.3	1.0
200:60:80	Normal (45x20 cm)	Vivek Hybrids-27	132.2	81.0	177.3	164.5	50.3	10.3	1.0
		HM-4 (C)	68.9	32.4	181.1	158.5	57.0	7.0	2.3
		Seed Tech-2324-Filler	132.2	82.2	195.5	178.5	54.3	8.0	3.0
		HQPM-4 Filler	116.7	78.1	232.4	204.9	58.7	8.7	1.0
	High (40x15 cm)	Vivek Hybrids-27	190.0	103.4	178.7	168.9	51.0	10.0	1.0
		HM-4 (C)	97.8	33.9	193.1	154.2	56.0	7.7	2.3
		Seed Tech-2324-Filler	193.3	101.9	184.3	184.4	56.0	7.7	2.0
		HQPM-4 Filler	167.8	85.0	233.2	202.0	60.0	8.0	1.0

Mean of location 138.3 74.9 196.6 173.1 55.2 8.4 1.7

150:50:60	139.2	75.1	196.3	169.2	55.0	8.4	1.8
200:60:80	137.4	74.7	197.0	177.0	55.4	8.4	1.7

C. D. at (5%) 5.2 2.3 3.5 4.4 0.7 0.4 0.2
Significance N.S. N.S. N.S. S N.S. N.S. N.S.

Normal (45x20 cm)	114.3	68.2	196.1	172.4	54.8	8.6	1.7
High (40x15 cm)	162.2	81.6	197.1	173.8	55.5	8.3	1.8

C. D. at (5%) 5.2 2.3 3.5 4.4 0.7 0.4 0.2
Significance S S N.S. N.S. N.S. N.S. N.S.

Vivek Hybrids-27	161.9	92.5	177.8	164.2	50.5	10.0	1.2
HM-4	86.7	30.7	188.4	152.8	55.9	7.4	2.5
SEED TECH-2324-F	161.7	93.2	189.9	177.5	55.2	7.8	2.3
HQPM-4 Filler	142.8	83.1	230.3	198.0	59.2	8.4	1.0

C. D. at (5%) 7.3 3.3 4.9 6.2 1.0 0.5 0.3
Significance S S S S S S S

Table 16: Performance of pre-release baby corn genotypes under varying planting density and nutrients levels in Zone II.

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Baby corn yield with husk (kg/ha)		Baby corn yield without husk (kg/ha)		Green fodder yield (kg/ha)	
			Karnal	Ludhiana	Karnal	Ludhiana	Kamal	Ludhiana
150:50:60	Normal (60x20 cm)	Vivek Hybrids-27	6009	8009	1521	2551	17430	19074
		HM-4 (C)	5382	5667	1362	1796	15607	17315
		Seed Tech-2324-Filler	5412	8310	1370	2648	15697	27685
		HQPM-4 Filler	5806	6389	1470	2056	16837	34074
	High (60x15 cm)	Vivek Hybrids-27	6280	9218	1550	2949	18837	24352
		HM-4 (C)	5570	7375	1375	2352	16713	19630
		Seed Tech-2324-Filler	5535	8472	1367	2694	16603	28148
		HQPM-4 Filler	5995	7255	1480	2315	17983	35370
200:60:80	Normal (60x20 cm)	Vivek Hybrids-27	7049	8481	1719	2695	20443	19815
		HM-4 (C)	6656	6157	1623	1898	19300	19722
		Seed Tech-2324-Filler	6208	8340	1514	2671	18007	28426
		HQPM-4 Filler	6573	6856	1603	2171	19060	34259
	High (60x15 cm)	Vivek Hybrids-27	7039	9380	1734	3014	21117	22407
		HM-4 (C)	6616	7611	1630	2440	19847	22315
		Seed Tech-2324-Filler	6255	8847	1541	2801	18763	29444
		HQPM-4 Filler	6828	7690	1682	2454	20483	35463
Mean of location			6200.9	7753.6	1533.9	2469.1	18295.4	26093.8
150:50:60			5749	7587	1437	2420	16963	25706
250:80:100			6653	7920	1631	2518	19628	26481
C. D. at (5%)			179.9	197.1	44.4	56.5	531.1	755.8
Significance			S	S	S	S	S	S
Normal (60x20 cm)			6137	7276	1523	2311	17798	25046
High (60x15 cm)			6265	8231	1545	2627	18793	27141
C. D. at (5%)			179.9	197.1	44.4	56.5	531.1	755.8
Significance			N.S.	S	N.S.	S	S	S
Vivek Hybrids-27			6594	8772	1631	2802	19457	21412
HM-4 (C)			6056	6703	1498	2122	17867	19745
Seed Tech-2324-Filler			5853	8492	1448	2704	17268	28426
HQPM-4 Filler			6301	7047	1559	2249	18591	34792
C. D. at (5%)			254.4	278.8	62.8	80.0	751.1	1068.9
Significance			S	S	S	S	S	S

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N:P ₂ O ₅ :K ₂ O	Density	Genotype	Plants ('000/ha)		Plant height (cm)		Days to first picking
			Karnal	Ludhiana	Karnal	Ludhiana	Karnal
150:50:60	Normal (60x20 cm)	Vivek Hybrids-27	62.3	83.3	192.0	169.0	43.3
		HM-4 (C)	59.3	82.4	213.8	169.0	47.7
		Seed Tech-2324-Filler	60.7	81.5	209.9	193.0	48.3
		HQPM-4 Filler	59.2	84.3	223.0	211.7	46.3
	High (60x15 cm)	Vivek Hybrids-27	80.0	110.2	194.8	170.0	43.3
		HM-4 (C)	77.0	109.3	215.0	176.7	47.7
		Seed Tech-2324-Filler	81.9	109.3	218.0	192.3	47.7
		HQPM-4 Filler	81.5	106.5	233.5	212.3	46.3
200:60:80	Normal (60x20 cm)	Vivek Hybrids-27	63.0	82.4	199.7	168.0	42.7
		HM-4 (C)	59.6	82.4	230.3	172.0	46.3
		Seed Tech-2324-Filler	61.5	81.5	234.3	189.7	46.7
		HQPM-4 Filler	59.3	80.6	244.3	222.7	44.7
	High (60x15 cm)	Vivek Hybrids-27	79.3	109.3	204.1	170.3	42.3
		HM-4 (C)	76.9	106.5	232.3	175.7	46.7
		Seed Tech-2324-Filler	80.7	110.2	235.7	201.3	46.7
		HQPM-4 Filler	81.2	106.5	245.3	226.7	44.7
Mean of location			70.2	34.3	220.4	188.8	45.7
150:50:60			70.2	95.8	212.5	186.8	46.3
250:80:100			70.2	94.9	228.3	190.8	45.1
C. D. at (5%)			1.9	0.5	5.3	5.1	0.3
Significance			N.S.	N.S.	S	N.S.	S
Normal (60x20 cm)			60.6	82.3	218.4	186.9	45.8
High (60x15 cm)			79.8	108.4	222.4	190.7	45.7
C. D. at (5%)			1.9	0.5	5.3	5.1	0.3
Significance			S	S	N.S.	N.S.	N.S.
Vivek Hybrids-27			71.1	96.3	197.7	169.3	42.9
HM-4 (C)			68.2	95.1	222.9	173.3	47.1
Seed Tech-2324-Filler			71.2	95.6	224.5	194.1	47.3
HQPM-4 Filler			70.3	94.4	236.5	218.3	45.5
C. D. at (5%)			2.7	0.7	7.5	7.2	0.5
Significance			N.S.	N.S.	S	S	S

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N:P ₂ O ₅ :K ₂ O	Density	Genotype	Net return (Rs./ha)		BC ratio	
			Kamal	Ludhiana	Karnal	Ludhiana
150:50:60	Normal (60x20 cm)	Vivek Hybrids-27	54736	30198	2.3	0.72
		HM-4 (C)	46019	9115	2.1	0.22
		Seed Tech-2324-Filler	46447	32907	2.1	0.79
		HQPM-4 Filler	51913	15615	2.3	0.37
	High (60x15 cm)	Vivek Hybrids-27	56334	39926	2.4	0.93
		HM-4 (C)	46732	23343	2.1	0.54
		Seed Tech-2324-Filler	46257	33218	2.1	0.77
		HQPM-4 Filler	52484	22260	2.3	0.52
200:60:80	Normal (60x20 cm)	Vivek Hybrids-27	63796	30268	2.5	0.66
		HM-4 (C)	58538	9352	2.4	0.20
		Seed Tech-2324-Filler	52554	28993	2.2	0.63
		HQPM-4 Filler	57423	15643	2.3	0.34
	High (60x15 cm)	Vivek Hybrids-27	64590	35955	2.5	0.74
		HM-4 (C)	58887	20038	2.4	0.41
		Seed Tech-2324-Filler	53998	31163	2.3	0.64
		HQPM-4 Filler	61749	20746	2.4	0.43
Mean of location			54528.5	24921.3	2.3	0.56
150:50:60			50115	25823	2.2	0.61
250:80:100			58942	24020	2.4	0.51
C. D. at (5%)			2435.3	1774.2	0.1	0.04
Significance			S	S	S	S
Normal (60x20 cm)			53928	21512	2.3	0.49
High (60x15 cm)			55129	28331	2.3	0.62
C. D. at (5%)			2435.3	1774.2	0.1	0.04
Significance			N.S.	S	N.S.	S
Vivek Hybrids-27			59864	34087	2.4	0.76
HM-4 (C)			52544	15462	2.3	0.34
Seed Tech-2324-Filler			49814	31570	2.2	0.71
HQPM-4 Filler			55892	18566	2.3	0.41
C. D. at (5%)			3444.0	2509.1	0.1	0.06
Significance			S	S	S	S

Table 17: Performance of pre-release baby corn genotypes under varying planting density and nutrients levels in Zone III.

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Baby corn yield with husk (kg/ha)		Baby corn yield without husk (kg/ha)		Green fodder yield (kg/ha)		Plants ('000/ha)	
			Bhub.	Dholi	Bhub.	Dholi	Bhub.	Dholi	Bhub.	Dholi
150:50:60	Normal (60x20 cm)	Vivek Hybrids-27	1556	2351	440	1227	7556	26382	61.8	81.0
		HM-4 (C)	2089	2833	489	1118	9222	28733	63.6	81.3
		Seed Tech-2324-Filler	2178	2233	489	991	10800	30222	62.4	81.8
		HQPM-4 Filler	2422	2049	642	1311	12867	30629	62.7	81.9
	High (50x20 cm)	Vivek Hybrids-27	1756	3333	533	1444	8822	28000	80.0	96.4
		HM-4 (C)	2133	4022	582	1633	11282	30067	78.2	95.5
		Seed Tech-2324-Filler	2311	3378	676	1167	12244	32556	79.3	96.4
		HQPM-4 Filler	2711	3389	816	1611	14644	31133	95.3	97.3
200:60:80	Normal (60x20 cm)	Vivek Hybrids-27	1622	2256	456	1311	8444	28667	62.7	81.2
		HM-4 (C)	1978	2911	542	1156	9733	30067	62.2	80.9
		Seed Tech-2324-Filler	2222	2344	562	1333	11222	30689	61.3	81.2
		HQPM-4 Filler	2511	2389	702	1689	13311	31711	63.1	81.1
	High (50x20 cm)	Vivek Hybrids-27	2067	3762	578	1636	9556	28333	78.4	96.9
		HM-4 (C)	2467	3733	700	1422	11556	30222	76.2	97.2
		Seed Tech-2324-Filler	2556	3202	762	1438	13711	33556	79.3	97.4
		HQPM-4 Filler	2956	3480	996	1867	15556	34778	78.0	97.3
Mean of location			2220.8	2979.2	622.8	1397.1	11282.9	30359.0	107.3	89.0
150:50:60			2144	2949	583	1313	10930	29715	72.9	89.0
250:80:100			2297	3010	662	1481	11636	31003	70.2	89.1
C. D. at (5%)			159.6	172.9	59.0	142.2	279.4	511.1	6.9	0.4
Significance			N.S.	N.S.	S	S	S	S	N.S.	N.S.
Normal (60x20 cm)			2072	2421	540	1267	10394	29638	62.5	81.3
High (50x20 cm)			2369	3538	705	1527	12171	31081	80.6	96.8
C. D. at (5%)			159.6	172.9	59.0	142.2	279.4	511.1	6.9	0.4
Significance			S	S	S	S	S	S	S	S
Vivek Hybrids-27			1750	2926	502	1404	8594	27846	70.7	88.9
HM-4 (C)			2167	3375	578	1332	10448	29772	70.1	88.7
Seed Tech-2324-Filler			2317	2789	622	1232	11994	31756	70.6	89.2
HQPM-4 Filler			2650	2827	789	1619	14094	32063	74.8	89.4
C. D. at (5%)			225.8	244.5	83.5	201.1	395.1	722.9	9.8	0.6
Significance			S	S	S	S	S	S	N.S.	N.S.

Bhub. = Bhubaneswar

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Plant height (cm)		Days to first picking		No. of picking		Net return (Rs./ha)	BC ratio
			Bhub.	Dholi	Bhub.	Dholi	Bhub.	Dholi	Bhubaneswar	
150:50:60	Normal (60x20 cm)	Vivek Hybrids-27	131.8	169.3	49.7	51.3	2.3	6.0	94808	2.7
		HM-4 (C)	127.1	156.7	50.3	52.3	2.0	6.3	149919	4.3
		Seed Tech-2324-Filler	135.9	168.0	50.7	58.7	2.7	4.7	155252	4.4
		HQPM-4 Filler	141.2	171.3	50.3	51.7	2.0	5.0	162363	4.6
	High (50x20 cm)	Vivek Hybrids-27	131.6	167.3	49.0	52.3	2.0	6.0	94808	2.7
		HM-4 (C)	115.2	169.3	50.0	51.7	2.0	6.0	132141	3.8
		Seed Tech-2324-Filler	132.0	171.0	51.3	58.3	2.7	5.0	148141	4.2
		HQPM-4 Filler	139.5	171.3	50.0	51.3	2.0	5.0	189030	5.4
200:60:80	Normal (60x20 cm)	Vivek Hybrids-27	141.6	171.3	50.0	55.3	2.3	6.7	98363	2.8
		HM-4 (C)	136.2	170.7	50.3	53.7	2.0	6.7	125030	3.6
		Seed Tech-2324-Filler	146.1	168.3	50.7	60.7	2.7	5.0	139252	4.0
		HQPM-4 Filler	152.9	170.3	50.7	53.7	2.0	5.3	176586	5.0
	High (50x20 cm)	Vivek Hybrids-27	136.8	166.0	49.7	54.7	2.0	6.3	135697	3.9
		HM-4 (C)	135.2	168.3	49.7	54.7	2.3	7.0	149919	4.3
		Seed Tech-2324-Filler	140.6	163.7	51.3	61.3	2.3	5.3	158808	4.5
		HQPM-4 Filler	149.5	159.3	50.3	54.7	2.0	5.0	213919	6.1
Mean of location			137.1	167.6	50.3	54.8	2.2	5.7	145252.2	4.2
150:50:60			131.8	168.0	50.2	53.5	2.2	5.5	140808	4.0
250:80:100			142.4	167.3	50.3	56.1	2.2	5.9	149697	4.3
C. D. at (5%)			2.1	5.0	0.7	0.5	0.2	0.2	12234.1	0.3
Significance			S	N.S.	N.S.	S	N.S.	S	N.S.	N.S.
Normal (60x20 cm)			139.1	168.3	50.3	54.7	2.3	5.7	137697	3.9
High (50x20 cm)			135.1	167.0	50.2	54.9	2.2	5.7	152808	4.4
C. D. at (5%)			2.1	5.0	0.7	0.5	0.2	0.2	12234.1	0.3
Significance			S	N.S.	N.S.	N.S.	N.S.	N.S.	S	S
Vivek Hybrids-27			135.5	168.5	49.6	53.4	2.2	6.3	105919	3.0
HM-4 (C)			128.4	166.3	50.1	53.1	2.1	6.5	139252	4.0
Seed Tech-2324-Filler			138.6	167.8	51.0	59.8	2.6	5.0	150363	4.3
HQPM-4 Filler			145.8	168.1	50.3	52.8	2.0	5.1	185474.4	5.3
C. D. at (5%)			3.0	7.1	0.9	0.7	0.3	0.3	17301.6	0.5
Significance			S	N.S.	S	S	S	S	S	S

Table 18: Performance of pre-release baby corn genotypes under varying planting density and nutrients levels in Zone IV.

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Baby corn yield with husk (kg/ha)		Baby corn yield without husk (kg/ha)		Green fodder yield (kg/ha)	
			Hyderabad	Karimnagar	Hyderabad	Karimnagar	Hyderabad	Karimnagar
150:50:60	Normal (45x20 cm)	Vivek Hybrids-27	4533	3762	1813	667	30067	17531
		HM-4 (C)	3929	2216	654	427	19800	18272
		Seed Tech-2324-Filler	3233	1697	1188	390	25367	25247
		HQPM-4 Filler	2906	2741	1018	573	25333	31481
	High (40x15 cm)	Vivek Hybrids-27	4118	1795	1280	336	25267	18210
		HM-4 (C)	3807	1243	1017	323	16867	13642
		Seed Tech-2324-Filler	3115	1180	1362	313	25300	21296
		HQPM-4 Filler	2507	1975	1397	527	29100	25926
200:60:80	Normal (45x20 cm)	Vivek Hybrids-27	4935	4909	1660	901	28300	24691
		HM-4 (C)	4012	1894	1204	302	19333	14074
		Seed Tech-2324-Filler	3747	2251	1173	410	22233	24938
		HQPM-4 Filler	3344	1740	1523	443	27833	36975
	High (40x15 cm)	Vivek Hybrids-27	4271	1942	1393	421	27600	20864
		HM-4 (C)	4083	1941	1096	354	18400	12593
		Seed Tech-2324-Filler	4611	1322	1088	364	20967	21111
		HQPM-4 Filler	3617	1794	1241	428	23667	31790
Mean of location			3797.9	2150.2	1256.8	448.6	24089.6	22415.1
150:50:60			3518	2076	1216	444	24638	21451
200:60:80			4077	2224	1297	453	23542	23380
C. D. at (5%)			449.9	410.1	124.5	84.0	1791.7	1753.6
Significance			S	N.S.	N.S.	N.S.	N.S.	S
Normal (45x20 cm)			3830	2651	1279	514	24783	24151
High (40x15 cm)			3766	1649	1234	383	23396	20679
C. D. at (5%)			449.9	410.1	124.5	84.0	1791.7	1753.6
Significance			N.S.	S	N.S.	S	N.S.	S
Vivek Hybrids-27			4464	3102	1537	581	27808	20324
HM-4 (C)			3958	1824	993	351	18600	14645
Seed Tech-2324-Filler			3676	1613	1203	369	23467	23148
HQPM-4 Filler			3094	2063	1295	493	26483	31543
C. D. at (5%)			636.3	579.9	176.1	118.8	2533.9	2480.0
Significance			S	S	S	S	S	S

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Plants ('000/ha)		Plant height (cm)		Days to first picking	
			Hyderabad	Karimnagar	Hyderabad	Karimnagar	Hyderabad	Karimnagar
150:50:60	Normal (45x20 cm)	Vivek Hybrids-27	84.0	94.4	203.8	194.5	53.0	47.0
		HM-4 (C)	68.6	43.8	201.8	190.3	54.0	49.0
		Seed Tech-2324-Filler	86.3	99.4	210.2	212.8	55.3	50.3
		HQPM-4 Filler	79.0	93.2	211.2	235.8	54.7	55.7
	High (40x15 cm)	Vivek Hybrids-27	91.9	98.1	208.2	169.2	53.0	47.0
		HM-4 (C)	99.2	48.1	196.0	192.7	54.7	51.3
		Seed Tech-2324-Filler	104.3	98.1	199.7	202.3	57.3	51.3
		HQPM-4 Filler	94.4	90.7	213.7	235.6	56.7	54.7
200:60:80	Normal (45x20 cm)	Vivek Hybrids-27	78.5	98.8	195.0	187.7	54.0	47.0
		HM-4 (C)	81.5	40.7	204.3	200.2	55.3	49.0
		Seed Tech-2324-Filler	70.3	94.4	210.3	218.7	56.0	49.3
		HQPM-4 Filler	76.6	93.8	210.7	256.4	55.0	52.0
	High (40x15 cm)	Vivek Hybrids-27	83.9	88.9	193.3	172.8	56.7	47.0
		HM-4 (C)	102.4	39.5	199.3	203.3	55.3	50.0
		Seed Tech-2324-Filler	95.6	101.9	197.0	210.7	57.3	51.3
		HQPM-4 Filler	88.5	103.1	208.0	245.5	58.0	54.0
Mean of location			86.6	82.9	203.9	208.0	55.4	50.4
150:50:60			88.5	83.3	205.6	204.2	54.8	50.8
200:60:80			84.7	82.6	202.2	211.9	56.0	50.0
C. D. at (5%)			2.6	3.9	6.2	7.1	0.7	0.5
Significance			S	N.S.	N.S.	S	S	S
			87.2					
Normal (45x20 cm)			78.1	82.3	205.9	212.1	54.7	49.9
High (40x15 cm)			95.0	83.6	201.9	204.0	56.1	50.8
			14.0					
C. D. at (5%)			2.6	3.9	6.2	7.1	0.7	0.5
Significance			S	N.S.	N.S.	S	S	S
Vivek Hybrids-27			84.6	95.1	200.1	181.0	54.2	47.0
HM-4 (C)			87.9	43.1	200.3	196.6	54.8	49.8
Seed Tech-2324-Filler			89.1	98.5	204.3	211.1	56.5	50.6
HQPM-4 Filler			84.6	95.2	210.9	243.4	56.1	54.1
C. D. at (5%)			3.7	5.6	8.8	10.0	1.0	0.8
Significance			S	S	N.S.	S	S	S

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Net return (Rs./ha)		BC ratio	
			Hyderabad	Karimnagar	Hyderabad	Karimnagar
150:50:60	Normal (45x20 cm)	Vivek Hybrids-27	67780	150062	2.28	4.95
		HM-4 (C)	45440	72778	1.86	2.91
		Seed Tech-2324-Filler	37080	46822	1.70	2.23
		HQPM-4 Filler	30520	99044	1.58	3.60
	High (40x15 cm)	Vivek Hybrids-27	48480	50504	1.82	2.29
		HM-4 (C)	33860	22911	1.57	1.58
		Seed Tech-2324-Filler	28453	19732	1.48	1.50
		HQPM-4 Filler	20100	59486	1.34	2.52
200:60:80	Normal (45x20 cm)	Vivek Hybrids-27	67860	205675	2.15	6.17
		HM-4 (C)	40440	54934	1.68	2.38
		Seed Tech-2324-Filler	38027	72774	1.64	2.83
		HQPM-4 Filler	35580	47218	1.60	2.19
	High (40x15 cm)	Vivek Hybrids-27	47680	56339	1.73	2.38
		HM-4 (C)	34720	56308	1.53	2.38
		Seed Tech-2324-Filler	47840	25351	1.73	1.62
		HQPM-4 Filler	30660	48931	1.47	2.20
Mean of location			40907.5	68054.4	1.70	2.73
150:50:60			38964	65168	1.70	2.70
200:60:80			42851	70941	1.69	2.77
C. D. at (5%)			9148.7	20503.2	0.16	0.53
Significance			N.S.	N.S.	N.S.	N.S.
Normal (45x20 cm)			45341	93663	1.81	3.41
High (40x15 cm)			36474	42445	1.58	2.06
C. D. at (5%)			9148.7	20503.2	0.16	0.53
Significance			N.S.	S	S	S
Vivek Hybrids-27			57950	115645	1.99	3.95
HM-4 (C)			38615	51733	1.66	2.31
Seed Tech-2324-Filler			37850	41170	1.64	2.05
HQPM-4 Filler			29215	63670	1.50	2.63
C. D. at (5%)			12938.2	28995.8	0.22	0.75
Significance			S	S	S	S

Table 19: Performance of pre-release baby corn genotypes under varying planting density and nutrients levels in Zone V.

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Baby corn yield with husk (kg/ha)	Baby corn yield without husk (kg/ha)		Green fodder yield		Days to first picking
			Banswara	Banswara	Chhindwara	Banswara (q/ha)	Chhindwara (kg/ha)	Chhindwara
100:50:60	Normal (75x20 cm)	Vivek Hybrids-27	7493	1482	1406	213	25622	50.7
		HM-4 (C)	5900	1172	1361	160	23228	51.0
		Seed Tech-2324-Filler	10908	1818	1467	176	24906	52.0
		HQPM-4 Filler	10250	1708	1428	207	23261	52.3
	High (75x10 cm)	Vivek Hybrids-27	8760	1610	1678	248	28200	51.0
		HM-4 (C)	6873	1220	1506	178	24244	51.3
		Seed Tech-2324-Filler	12653	2027	1622	207	25156	52.3
		HQPM-4 Filler	11940	1910	1589	230	24661	52.7
200:60:80	Normal (75x20 cm)	Vivek Hybrids-27	8037	1567	1700	230	26111	50.3
		HM-4 (C)	6333	1217	1539	178	24744	50.3
		Seed Tech-2324-Filler	11682	2007	1578	187	25450	50.7
		HQPM-4 Filler	11020	1973	1506	212	24744	51.3
	High (75x10 cm)	Vivek Hybrids-27	9170	1660	1844	283	28517	51.3
		HM-4 (C)	7267	1320	1606	186	25244	50.7
		Seed Tech-2324-Filler	13365	2200	1783	230	26294	52.0
		HQPM-4 Filler	12683	2097	1678	252	25400	51.7

Mean of location 9646.0 1686.7 1580.6 211.1 25361.5 51.4

100:50:60	9347	1618	1507	202	24910	51.7
200:60:80	9945	1755	1654	220	25813	51.0

C. D. at (5%) 214.4 34.7 69.5 11.8 1039.2 0.4
Significance S S S S N.S. S

Normal (75x20 cm)	8953	1618	1498	195	24758	51.1
High (75x10 cm)	10339	1755	1663	227	25965	51.6

C. D. at (5%) 214.4 34.7 69.5 11.8 1039.2 0.4
Significance S S S S S S

Vivek Hybrids-27	8365	1580	1657	244	27113	50.8
HM-4 (C)	6593	1232	1503	176	24365	50.8
Seed Tech-2324-Filler	12152	2013	1613	200	25451	51.8
HQPM-4 Filler	11473	1922	1550	225	24517	52.0

C. D. at (5%) 303.2 49.1 98.3 16.7 1469.6 0.6
Significance S S S S S S

Cont....

N:P ₂ O ₅ :K ₂ O	Density	Genotype	Plants ('000/ha)		Plant height (cm)		Net return (Rs./ha)	BC ratio
			Banswara	Chhindwara	Banswara	Chhindwara	Chhindwara	Chhindwara
100:50:60	Normal (75x20 cm)	Vivek Hybrids-27	77.8	63.3	178.3	144.7	47742	3.12
		HM-4 (C)	60.0	62.2	193.3	149.3	45519	3.02
		Seed Tech-2324-Filler	80.0	63.9	171.0	152.0	50798	3.25
		HQPM-4 Filler	80.0	62.2	190.0	149.7	48854	3.17
	High (75x10 cm)	Vivek Hybrids-27	96.7	130.6	186.7	140.7	61356	3.72
		HM-4 (C)	74.4	128.3	201.7	153.7	52743	3.34
		Seed Tech-2324-Filler	104.4	129.4	181.7	155.0	58578	3.60
		HQPM-4 Filler	96.1	128.9	198.3	152.0	56911	3.52
200:60:80	Normal (75x20 cm)	Vivek Hybrids-27	77.8	62.8	186.7	150.3	60467	3.46
		HM-4 (C)	63.3	62.8	203.3	154.0	52410	3.14
		Seed Tech-2324-Filler	81.1	63.3	186.7	153.0	54355	3.21
		HQPM-4 Filler	81.1	63.9	203.3	153.0	50743	3.07
	High (75x10 cm)	Vivek Hybrids-27	96.7	129.4	193.3	150.7	67691	3.76
		HM-4 (C)	75.6	128.9	201.7	155.7	55744	3.27
		Seed Tech-2324-Filler	106.7	129.4	188.3	157.7	64635	3.63
		HQPM-4 Filler	105.6	130.6	205.0	156.0	59356	3.42
Mean of location			84.8	57.8	191.8	151.7	55493.9	3.36
100:50:60			83.7	96.1	187.6	149.6	52813	3.34
200:60:80			86.0	96.4	196.0	153.8	58175	3.37
C. D. at (5%)			2.9	0.9	3.9	3.3	3476.7	0.15
Significance			N.S.	N.S.	S	S	S	N.S.
Normal (75x20 cm)			75.1	63.1	189.1	150.8	51361	3.18
High (75x10 cm)			94.5	129.4	194.6	152.7	59627	3.53
C. D. at (5%)			2.9	0.9	3.9	3.3	3476.7	0.15
Significance			S	S	S	N.S.	S	S
Vivek Hybrids-27			87.2	96.5	186.3	146.6	59314	3.51
HM-4 (C)			68.3	95.6	200.0	153.2	51604	3.19
Seed Tech-2324-Filler			93.1	96.5	181.9	154.4	57092	3.43
HQPM-4 Filler			90.7	96.4	199.2	152.7	53966	3.29
C. D. at (5%)			4.1	1.2	5.5	4.7	4916.8	0.21
Significance			S	N.S.	S	S	S	S

Table 20: Effect of planting systems and intercropping with and without residue retention under rainfed condition at Bajaura.

Residue level	Planting system	Intercrop	Maize grain yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Barrenness (%)	Days to 50% silking	Intercrop yield (kg/ha)	Maize equivalent yield (kg/ha)
No residue	Uniform row	Soybean	5256	68.7	65.4	183.6	4.7	67.3	41.7	5297
		Black gram	5143	69.1	65.4	173.5	5.4	67.0	0.0	5143
	Paired row	Soybean	5657	68.5	64.0	183.8	6.4	66.3	42.5	5700
		Black gram	5450	71.8	68.1	187.0	5.4	66.0	0.0	5450
Residue retention	Uniform row	Soybean	6885	70.4	68.7	194.0	2.8	64.7	54.4	6940
		Black gram	7407	69.7	67.3	186.1	3.7	65.0	0.0	7407
	Paired row	Soybean	6763	70.5	68.1	179.0	4.0	66.0	53.4	6817
		Black gram	6708	70.3	67.4	188.2	3.0	65.7	0.0	6708
Mean of location			6158.5	69.9	66.8	184.4	4.4	66.0	24.0	6182.5
No residue			5376	69.5	65.7	182.0	5.5	66.7	21.1	5397
Residue retention as a mulch @ 5 t/ha			6941	70.2	67.9	186.8	3.4	65.3	26.9	6968
C. D. at (5%)			356.7	1.3	1.4	6.5	1.2	0.9	2.3	357.1
Significance			S	N.S.	S	N.S.	S	S	S	S
Uniform row at 67 cm			6173	69.5	66.7	184.3	4.1	66.0	24.0	6197
Paired row at 84:50 cm			6144	70.2	66.9	184.5	4.7	66.0	24.0	6168
C. D. at (5%)			356.7	1.3	1.4	6.5	1.2	0.9	2.3	357.1
Significance			N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
Soybean (Palam Early 1)			6140	69.5	66.6	185.1	4.5	66.1	48.0	6188
Black gram (Palampur 93)			6177	70.2	67.1	183.7	4.4	65.9	0.0	6177
C. D. at (5%)			356.7	1.3	1.4	6.5	1.2	0.9	2.3	357.1
Significance			N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	S	N.S.

Treatment details:

A. Main plot: Residue levels (2)

NR No residue

R Residue retention as a mulch @ 5 t/ha

B. Sub-plots: Planting systems (2)

UR Uniform row at 67 cm

PR Paired row at 84:50 cm

C. Sub-sub plots: Intercrops (2)

IC -1 Soybean (Palam Early 1)

IC -2 Black gram (Palampur 93)

Table 21: Effect of planting systems and intercropping with and without residue retention under rain fed conditions at Kashmir.

Planting system	Intercrops	Residue level	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
Uniform row	Rajmash	Clean field	5578	11822	81.3	72.4	234.7	73.0	77.0
	Cowpea		5711	12811	81.8	72.2	231.7	73.7	78.7
Paired row	Rajmash		6000	12400	82.0	74.9	233.0	74.0	77.0
	Cowpea		6067	11667	81.3	74.0	232.0	75.3	79.7
Uniform row	Rajmash	Residue Mulch	5378	12756	81.8	72.4	237.7	75.0	79.3
	Cowpea		5333	13133	81.6	71.6	235.3	75.7	80.0
Paired row	Rajmash		5533	13056	81.8	73.1	234.0	73.0	77.7
	Cowpea		5467	12278	81.6	72.2	233.7	75.0	79.3
Mean of location			5633.3	12490.3	122.5	109.3	234.0	74.3	78.6
Uniform row			5839	12175	81.6	73.4	232.8	74.0	78.1
Paired row			5428	12806	81.7	72.3	235.2	74.7	79.1
C. D. at (5%)			188.0	411.3	1.5	1.7	5.3	1.6	1.8
Significance			S	S	N.S.	N.S.	N.S.	N.S.	N.S.
Rajmash			5500	12631	81.6	72.2	234.8	74.3	78.8
Cowpea			5767	12350	81.7	73.6	233.2	74.3	78.4
C. D. at (5%)			188.0	411.3	1.5	1.7	5.3	1.6	1.8
Significance			S	N.S.	N.S.	S	N.S.	N.S.	N.S.
Clean field			5622	12508	81.7	73.2	234.8	73.8	77.8
Residue Mulch (5 Tones/ha)			5644	12472	81.6	72.5	233.2	74.9	79.4
C. D. at (5%)			188.0	411.3	1.5	1.7	5.3	1.6	1.8
Significance			N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.

Treatment details:**A. Main plot: Planting system (2)**P₁ Uniform row at 67cmP₂ Paired row (84:50cm)**B. Sub plot: Intercrops (2)**I₁ RajmashI₂ Cowpea**C. Sub-2 plot: Residue level (2)**R₁ Clean fieldR₂ Residue Mulch (5 Tones/ha)

Planting system	Intercrops	Residue level	Days to maturity of Maize	Intercrop yield (kg/ha)	Maize equivalent yield (kg/ha)	N	P	K	Net returns (Rs/ha)	BC Ratio
						Uptake by maize (kg/ha)				
Uniform row	Rajmash	Clean field	146.0	211.1	6538	140.0	19.8	132.2	96808	2.05
	Cowpea		143.0	157.8	6429	149.7	21.2	134.4	94408	2.00
Paired row	Rajmash		144.7	242.2	7102	655.6	22.5	148.2	109207	2.32
	Cowpea		148.3	182.2	6896	177.6	25.7	161.8	104674	2.09
Uniform row	Rajmash	Residue mulch	148.0	197.8	6276	166.4	23.7	155.7	88075	1.87
	Cowpea		148.0	160.0	6053	171.2	24.2	154.9	83098	1.76
Paired row	Rajmash		149.3	220.0	6533	153.8	22.5	144.4	93719	1.99
	Cowpea		148.3	168.9	6244	170.8	22.7	165.3	87364	1.85
Mean of location			147.0	192.5	6508.9	223.2	22.8	149.6		
Uniform row			145.5	198.3	6741	280.8	22.3	144.1		
Paired row			148.4	186.7	6277	165.6	23.3	155.1		
C. D. at (5%)			0.9	11.702	195.2	265.2	0.8	3.1		
Significance			S	N.S.	S	N.S.	S	S		
Rajmash			146.3	181.7	6324	156.8	22.2	144.3		
Cowpea			147.7	203.3	6694	289.5	23.3	154.9		
C. D. at (5%)			0.9	11.702	195.2	265.2	0.8	3.1		
Significance			S	S	S	N.S.	S	S		
Clean field			147.0	217.8	6612	279.0	22.1	145.1		
Residue Mulch (5 Tones/ha)			146.9	167.2	6406	167.3	23.4	154.1		
C. D. at (5%)			0.9	11.7	195.2	265.2	0.8	3.1		
Significance			N.S.	S	S	N.S.	S	S		

Table 22: Effect of planting system and intercropping with and without retention under rainfed condition in maize hybrid at Bhubaneswar.

Planting system	Intercrop	Residue	Grain yield of maize (kg/ha)	Stover yield of maize (kg/ha)	Plants ('000/ha)	Plant height (cm)	Days to 50% silking	Days to maturity	Maize Net return (Rs/ha)
Uniform row	Cowpea	No residue	5774	17356	63.8	153.3	57.0	96.7	42040
		With residue	6028	18089	64.2	154.0	58.7	97.0	45378
	Groundnut	No residue	5680	16844	64.2	161.5	59.0	97.0	40801
		With residue	6061	17311	64.7	162.4	60.3	98.7	45807
Paired row	Cowpea	No residue	4499	18289	64.0	167.6	55.0	93.0	25353
		With residue	4751	19289	64.0	145.5	56.0	94.0	28659
	Groundnut	No residue	4418	19089	64.4	133.9	57.0	95.3	24301
		With residue	4541	19667	64.7	139.8	57.0	96.0	25910
Mean of location			5219.1	18241.7	96.4	152.2	57.5	96.0	34781.1
Uniform row -67 cm			5886	17400	64.2	157.8	58.8	97.3	43506
Paired row- 84: 50 cm			4552	19083	64.3	146.7	56.3	94.6	26056
C. D. at (5%)			260.2	1398.2	1.7	3.3	0.7	0.9	3405.2
Significance			S	S	N.S.	S	S	S	S
Cowpea			5263	18256	64.0	155.1	56.7	95.2	35357
Groundnut			5175	18228	64.5	149.4	58.3	96.8	34205
C. D. at (5%)			260.2	1398.2	1.7	3.3	0.7	0.9	3405.2
Significance			N.S.	N.S.	N.S.	S	S	S	N.S.
No residue			5093	17894	64.1	154.1	57.0	95.5	33124
With residue			5345	18589	64.4	150.4	58.0	96.4	36439
C. D. at (5%)			260.2	1398.2	1.7	3.3	0.7	0.9	3405.2
Significance			N.S.	N.S.	N.S.	S	S	S	N.S.

Treatment details:**A. Main plot: Planting system (2)**

UR Uniform row -67 cm

PR Paired row- 84: 50 cm

B. Sub-plots: Intercrops (2)I₁ Cowpea-UtkalamanikaI₂ Groundnut-Smruati**C. Sub- sub plots: Residue levels (2)**R₁ With residueR₂ No residue

Planting system	Intercrop	Residue	Intercrop grain yield (kg/ha)	Intercrop stover yield (kg/ha)	Intercrop days to 50% silking	Intercrop days to maturity	No, of intercrop pods/plant	Maize equivalent yield of intercrop (kg/ha)
Uniform row	Cowpea	No residue	489	1092	34.0	70.0	20.3	488
		With residue	511	1170	34.0	70.3	21.0	466
	Groundnut	No residue	2511	5211	41.0	110.7	33.3	7781
		With residue	2600	5511	41.0	111.0	33.7	7939
Paired row	Cowpea	No residue	489	1098	33.0	70.7	21.0	466
		With residue	533	1164	34.7	71.0	21.0	509
	Groundnut	No residue	2489	5213	40.7	111.7	33.0	7690
		With residue	2533	5282	41.0	112.0	33.3	7803
Mean of location			1519.4	3217.8	37.4	90.9	27.1	4142.8
Uniform row -67 cm			1528	3246	37.5	90.5	27.1	4168
Paired row- 84: 50 cm			1511	3189	37.3	91.3	27.1	4117
C. D. at (5%)			88.3	115.3	0.9	1.1	1.5	205.0
Significance			N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
Cowpea			506	1131	33.9	70.5	20.8	482
Groundnut			2533	5304	40.9	111.3	33.3	7803
C. D. at (5%)			88.3	115.3	0.9	1.1	1.5	205.0
Significance			S	S	S	S	S	S
No residue			1494	3154	37.2	90.8	26.9	4106
With residue			1544	3282	37.7	91.1	27.3	4179
C. D. at (5%)			88.3	115.3	0.9	1.1	1.5	205.0
Significance			N.S.	S	N.S.	N.S.	N.S.	N.S.

Cont....

Planting system	Intercrop	Residue	System BC ratio	System productivity (kg/ha)	Straw yield of system (kg/ha)	System net return (Rs/ha)
Uniform row	Cowpea	No residue	1.3	6262	12035	46261
		With residue	1.4	6495	12523	49319
	Groundnut	No residue	4.0	13619	19298	142711
		With residue	4.1	13842	19904	145645
Paired row	Cowpea	No residue	0.8	4966	9465	29262
		With residue	0.9	5260	10011	33119
	Groundnut	No residue	3.4	12109	16527	122902
		With residue	3.5	12344	16885	125991
Mean of location			2.4	9361.9	14580.9	86901.3
Uniform row -67 cm			2.7	10054	15940	95984
Paired row- 84: 50 cm			2.2	8670	13222	77818
C. D. at (5%)			0.1	390.6	631.3	5123.3
Significance			S	S	S	S
Cowpea			1.1	5745	11008	39490
Groundnut			3.7	12978	18153	134312
C. D. at (5%)			0.1	390.6	631.3	5123.3
Significance			S	S	S	S
No residue			2.4	9239	14331	85284
With residue			2.5	9485	14830	88519
C. D. at (5%)			0.1	390.6	631.3	5123.3
Significance			N.S.	N.S.	N.S.	N.S.

Table 23: Effect of planting systems and intercropping with and without residue retention under rainfed conditions at Ranchi.**Maize data**

Planting system	Intercrop	Residue level	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% silking	Cob length (cm)	Cob breadth (cm)
Equal rows	Maize + Soybean	Clean field	5165	9304	72292	72292	211.0	56.7	18.2	15.3
		Residue	6031	10748	70833	70625	215.9	57.3	18.6	15.5
	Maize + Blackgram	Clean field	6321	11271	72292	70417	216.4	56.7	18.8	15.7
		Residue	6160	10892	72708	70208	217.8	56.3	19.3	19.8
Paired rows	Maize + Soybean	Clean field	5675	10148	70833	70417	205.9	57.3	18.6	18.8
		Residue	6496	11515	71667	70417	215.2	55.0	19.6	16.4
	Maize + Blackgram	Clean field	5885	10440	72292	70208	208.3	56.3	18.8	15.4
		Residue	6431	11304	74792	72292	216.1	54.0	19.9	17.3
Mean of location			6020.6	10702.6	72213.5	70859.4	213.3	56.2	19.0	16.8
Equal rows at 67 cm			5919	10554	72031	70885	215.3	56.8	18.7	16.6
Paired rows (84:50 cm)			6122	10852	72396	70833	211.4	55.7	19.3	17.0
C. D. at (5%)			358.9	588.5	3077.8	2948.9	6.8	1.0	0.7	0.6
Significance			N.S.	N.S.	N.S.	N.S.	N.S.	S	N.S.	N.S.
Maize + Soybean			5842	10429	71406	70938	212.0	56.6	18.7	16.5
Maize + Blackgram			6199	10977	73021	70781	214.6	55.8	19.2	17.0
C. D. at (5%)			358.9	588.5	3077.8	2948.9	6.8	1.0	0.7	0.6
Significance			N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
Clean field			5761	10291	71927	70833	210.4	56.8	18.6	16.3
Residue retention as mulch (5t/ha)			6280	11115	72500	70885	216.3	55.7	19.4	17.2
C. D. at (5%)			358.9	588.5	3077.8	2948.9	6.8	1.0	0.7	0.6
Significance			S	S	N.S.	N.S.	N.S.	S	S	S

Treatment details:**A. Main plot: Planting system (2)**

- M₁ Equal rows at 67 cm
M₂ Paired rows (84:50 cm)

B. Sub plot: Plant intercropping (2)

- S₁ Maize + Soybean
S₂ Maize + Blackgram

C. Sub-sub Plots: Residue level (2)

- R₁ Clean field
R₂ Residue retention as mulch (5t/ha)

Cont....

Planting system	Intercrop	Residue level	No. of grains /row	No. of grains row/cob	1000 maize grain weight	System productivity (kg/ha)	System net return (Rs/ha)	System BC ratio	N	P	K
									Uptake by maize		
Equal rows	Maize + Soybean	Clean field	26.0	13.6	306.1	6485	46739	1.40	135.7	22.4	129.6
		Residue	26.7	13.9	318.8	7635	59358	1.70	158.2	26.4	156.5
	Maize + Blackgram	Clean field	26.7	13.7	318.5	7695	62427	1.91	165.8	27.4	157.7
		Residue	27.7	16.9	343.4	7828	62429	1.82	159.6	26.1	154.6
Paired rows	Maize + Soybean	Clean field	26.5	16.5	331.9	7159	55005	1.64	146.6	24.2	139.8
		Residue	28.1	14.4	336.1	8125	65409	1.87	170.0	28.4	167.9
	Maize + Blackgram	Clean field	26.5	13.7	316.3	7523	60144	1.84	152.2	25.4	146.3
		Residue	28.5	15.4	358.5	8363	68981	2.01	169.9	28.1	165.8
Mean of location			27.1	14.8	328.7	7601.6	60061.7	1.77	157.3	26.1	152.3
Equal rows at 67 cm			26.8	14.6	321.7	7410	57738	1.71	154.8	25.6	149.6
Paired rows (84:50 cm)			27.4	15.0	335.7	7793	62385	1.84	159.7	26.5	155.0
C. D. at (5%)			0.9	0.5	12.1	350.1	4341.3	0.13	8.6	1.4	8.2
Significance			N.S.	N.S.	S	S	S	S	N.S.	N.S.	N.S.
Maize + Soybean			26.8	14.6	323.2	7351	56628	1.65	152.6	25.3	148.5
Maize + Blackgram			27.4	15.0	334.2	7852	63495	1.90	161.9	26.8	156.1
C. D. at (5%)			0.9	0.5	12.1	350.1	4341.3	0.13	8.6	1.4	8.2
Significance			N.S.	N.S.	N.S.	S	S	S	S	N.S.	N.S.
Clean field			26.4	14.4	318.2	7216	56079	1.70	150.1	24.8	143.4
Residue retention as mulch (5t/ha)			27.8	15.2	339.2	7988	64044	1.85	164.4	27.3	161.2
C. D. at (5%)			0.9	0.5	12.1	350.1	4341.3	0.13	8.6	1.4	8.2
Significance			S	S	S	S	S	S	S	S	S

Cont....

Intercrop data

Planting system	Intercrop	Residue level	Grain yield (kg/ha)	Straw yield (kg/ha)	Plant height (cm)	Branches per plant	Pods per plant	Seed per pod	Seed per plant	1000 grain weight
Equal rows	Maize + Soybean	Clean field	854.2	2116.7	60.1	3.9	23.0	2.4	60.1	106.8
		Residue	1037.5	2604.2	63.5	4.3	27.1	2.7	71.2	113.2
	Maize + Blackgram	Clean field	487.5	2495.8	36.4	4.3	13.7	4.9	72.7	38.5
		Residue	591.7	3058.3	38.2	4.8	15.7	5.9	91.0	39.2
Paired rows	Maize + Soybean	Clean field	960.4	2400.0	62.1	4.0	24.8	2.5	63.8	110.4
		Residue	1054.2	2647.9	67.4	4.0	26.6	2.6	64.1	114.6
	Maize + Blackgram	Clean field	581.3	3002.1	37.1	4.9	15.2	5.5	84.7	40.7
		Residue	685.4	3568.8	40.5	5.5	17.3	6.5	107.3	41.8
Mean of location			781.5	2736.7	50.7	4.5	20.4	4.1	76.9	75.6
Equal rows at 67 cm			742.7	2568.8	49.5	4.3	19.9	4.0	73.8	74.4
Paired rows (84:50 cm)			820.3	2904.7	51.8	4.6	21.0	4.3	80.0	76.9
C. D. at (5%)			48.7	177.2	2.3	0.2	0.8	0.3	5.4	1.9
Significance			S	S	N.S.	S	S	S	S	S
Maize + Soybean			976.6	2442.2	63.3	4.0	25.4	2.6	64.8	111.2
Maize + Blackgram			586.5	3031.3	38.0	4.9	15.5	5.7	89.0	40.0
C. D. at (5%)			48.7	177.2	2.3	0.2	0.8	0.3	5.4	1.9
Significance			S	S	S	S	S	S	S	S
Clean field			720.8	2503.6	48.9	4.3	19.2	3.8	70.4	74.1
Residue retention as mulch (5t/ha)			842.2	2969.8	52.4	4.6	21.7	4.4	83.4	77.2
C. D. at (5%)			48.7	177.2	2.3	0.2	0.8	0.3	5.4	1.9
Significance			S	S	S	S	S	S	S	S

Cont....

Planting system	Intercrop	Residue level	Maize equivalent yield of intercrops	N uptake by intercrops	P uptake by intercrops	K uptake by intercrops
Equal rows	Maize + Soybean	Clean field	1320	66.3	7.7	17.1
		Residue	1603	78.8	9.2	20.0
	Maize + Blackgram	Clean field	1374	30.5	4.0	10.8
		Residue	1667	36.5	4.7	12.9
Paired rows	Maize + Soybean	Clean field	1484	73.8	8.6	18.8
		Residue	1629	79.7	9.3	20.1
	Maize + Blackgram	Clean field	1638	35.9	4.6	12.7
		Residue	1932	41.8	5.3	14.6

Mean of location 1581.0 55.4 6.7 15.9

Equal rows at 67 cm	1491	53.0	6.4	15.2
Paired rows (84:50 cm)	1671	57.8	7.0	16.6

C. D. at (5%) 100.7 3.3 0.4 0.9
Significance S S S S

Maize + Soybean	1509	74.6	8.7	19.0
Maize + Blackgram	1653	36.2	4.7	12.7

C. D. at (5%) 100.7 3.3 0.4 0.9
Significance S S S S

Clean field	1454	51.6	6.3	14.9
Residue retention as mulch (5t/ha)	1708	59.2	7.1	16.9

C. D. at (5%) 100.7 3.3 0.4 0.9
Significance S S S S

Table 24: Evaluation of interactive effect of plant density, geometry and fertility levels on productivity of maize at Ambikapur.

Maize data

Planting system	Intercrop	Residue level	Grain yield (Kg/ha)	Fodder yield (Kg/ha)	Plants (000/ha)	Cobs (000/ha)	Plant height (cm)	Days to 50% silking
Equal row	Maize + Soybean	NR	4193	6553	72.3	71.6	221.7	50.3
		WR	5787	9281	71.6	71.4	227.0	50.7
	Maize + Black Gram	NR	4772	7486	71.6	71.4	217.3	50.7
		WR	6242	9784	72.0	71.6	223.7	50.3
Paired row	Maize + Soybean	NR	6449	10258	71.0	71.0	220.2	50.3
		WR	6284	9948	72.0	71.6	226.8	50.3
	Maize + Black Gram	NR	4979	7834	71.8	71.2	217.4	51.0
		WR	5290	8516	71.8	71.4	221.4	50.7
Mean of location			5499.5	8707.6	71.8	71.4	221.9	50.5
Equal row			5248	8276	71.9	71.5	222.4	50.5
Paired row			5751	9139	71.7	71.3	221.5	50.6
C. D. at (5%)			476.9	789.7	1.2	1.1	6.4	0.7
Significance			S	S	N.S.	N.S.	N.S.	N.S.
Maize+Soybean			5678	9010	71.7	71.4	223.9	50.4
Maize+Black Gram			5321	8405	71.8	71.4	220.0	50.7
C. D. at (5%)			476.9	789.7	1.2	1.1	6.4	0.7
Significance			N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
Clean cultivation			5098	8033	71.7	71.3	219.2	50.6
Residue retention as mulch (5t/ha)			5901	9382	71.9	71.5	224.7	50.5
C. D. at (5%)			476.9	789.7	1.2	1.1	6.4	0.7
Significance			S	S	N.S.	N.S.	N.S.	N.S.

Treatment details:

A. Main Plot: Planting system (2)

D₁ Equal rows at 67cm

D₂ Paired row (84:50 cm)

B. Sub plot: Intercropping (2)

S₁ Maize+Soybean

S₂ Maize+Blackgram

C. Sub-sub Plots: Residue levels (2)

M₀ Clean Field

M₁ Residue retention as mulch@5t/ha

Cont....

Planting system	Intercrop	Residue level	Cob length (cm)	Cob girth (cm)	No of rows/cob	Grains/row	1000 grain wt (g)
Equal row	Maize + Soybean	NR	16.9	13.8	13.2	35.1	322.5
		WR	17.7	14.3	13.6	33.7	331.5
	Maize + Black Gram	NR	16.5	14.1	13.5	34.1	316.9
		WR	17.6	14.8	14.1	35.3	320.0
Paired row	Maize + Soybean	NR	17.6	15.1	14.5	36.3	327.0
		WR	18.1	14.4	13.7	36.1	330.8
	Maize + Black Gram	NR	17.6	14.0	13.3	35.4	321.7
		WR	17.8	14.0	13.2	35.1	323.2
Mean of location			17.5	14.3	13.6	35.2	324.2
Equal row			17.2	14.2	13.6	34.6	322.7
Paired row			17.8	14.4	13.7	35.8	325.7
C. D. at (5%)			0.5	0.5	0.5	0.7	2.7
Significance			S	N.S.	N.S.	S	S
Maize+Soybean			17.6	14.4	13.7	35.3	327.9
Maize+Black Gram			17.4	14.2	13.5	35.0	320.4
C. D. at (5%)			0.5	0.5	0.5	0.7	2.7
Significance			N.S.	N.S.	N.S.	N.S.	S
Clean cultivation			17.2	14.2	13.6	35.3	322.0
Residue retention as mulch (5t/ha)			17.8	14.4	13.7	35.1	326.4
C. D. at (5%)			0.5	0.5	0.5	0.7	2.7
Significance			S	N.S.	N.S.	N.S.	S

Cont....

Intercrop data

Planting system	Intercrop	Residue level	Grain weight (kg/ha)	Straw weight (kg/ha)	Plant height (cm)	Branches per plant	Seeds per pod	Pods per plant
Equal row	Maize + Soybean	NR	637	1186	55.5	3.9	2.8	18.7
		WR	662	1252	63.5	4.2	2.8	20.3
	Maize + Black Gram	NR	516	1684	45.4	4.9	5.3	12.1
		WR	561	1848	47.6	5.4	5.7	14.3
Paired row	Maize + Soybean	NR	724	1260	65.5	4.8	2.9	21.4
		WR	753	1346	69.1	5.2	3.0	23.5
	Maize + Black Gram	NR	589	1897	47.4	5.4	5.5	12.4
		WR	629	2078	52.5	5.5	5.9	14.5
Mean of location			633.7	1568.7	55.8	4.9	4.2	17.1
Equal row			594	1492	53.0	4.6	4.2	16.4
Paired row			674	1645	58.7	5.2	4.3	17.9
C. D. at (5%)			38.6	173.9	2.1	0.3	0.2	1.4
Significance			S	N.S.	S	S	N.S.	S
Maize+Soybean			694	1261	63.4	4.5	2.9	21.0
Maize+Black Gram			574	1877	48.3	5.3	5.6	13.3
C. D. at (5%)			38.6	173.9	2.1	0.3	0.2	1.4
Significance			S	S	S	S	S	S
Clean cultivation			616	1507	53.5	4.8	4.1	16.2
Residue retention as mulch (5t/ha)			651	1631	58.2	5.1	4.4	18.1
C. D. at (5%)			38.6	173.9	2.1	0.3	0.2	1.4
Significance			N.S.	N.S.	S	S	S	S

Cont....

Planting system	Intercrop	Residue level	Maize equivalent yield	System productivity	Net return (Rs/ha) of system	BC ratio of system	Total N uptake (Maize)	Total P uptake (Maize)	Total K uptake (Maize)
Equal row	Maize + Soybean	NR	1380	5572	39823	1.33	104.1	17.3	94.5
		WR	1433	7220	58358	1.79	145.5	24.4	138.6
	Maize + Black Gram	NR	1463	6235	49810	1.74	119.0	19.8	108.1
		WR	1589	7831	67407	2.16	154.1	25.5	142.8
Paired row	Maize + Soybean	NR	1568	8018	70636	2.35	159.3	26.5	145.6
		WR	1631	7915	66847	2.05	157.6	26.5	149.3
	Maize + Black Gram	NR	1668	6647	54945	1.92	123.0	20.7	113.2
		WR	1782	7072	57670	1.85	135.0	22.5	127.6
Mean of location			1564.2	7063.7	58187.0	1.90	137.2	22.9	127.5
Equal row			1466	6715	53849	1.76	130.7	21.7	121.0
Paired row			1662	7413	62525	2.04	143.7	24.0	133.9
C. D. at (5%)			98.6	472.1	5987.7	0.20	12.7	2.1	11.5
Significance			S	S	S	S	S	S	S
Maize+Soybean			1503	7181	58916	1.88	141.6	23.7	132.0
Maize+Black Gram			1625	6946	57458	1.92	132.8	22.1	122.9
C. D. at (5%)			98.6	472.1	5987.7	0.20	12.7	2.1	11.5
Significance			S	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
Clean cultivation			1520	6618	53804	1.83	126.3	21.1	115.4
Residue retention as mulch (5t/ha)			1609	7509	62570	1.97	148.0	24.7	139.6
C. D. at (5%)			98.6	472.1	5987.7	0.20	12.7	2.1	11.5
Significance			N.S.	S	S	N.S.	S	S	S

Cont....

Planting system	Intercrop	Residue level	Total N uptake (intercrops)	Total P uptake (intercrops)	Total K uptake (intercrops)	System N uptake	System P uptake	System K uptake
Equal row	Maize + Soybean	NR	44.9	4.7	10.0	149.0	22.0	104.5
		WR	45.8	4.8	10.0	191.3	29.3	148.6
	Maize + Black Gram	NR	31.3	4.1	10.9	150.4	23.9	119.0
		WR	33.6	4.3	11.6	187.7	29.8	154.5
Paired row	Maize + Soybean	NR	50.0	5.2	10.7	209.3	31.7	156.4
		WR	51.5	5.4	11.0	209.1	31.8	160.3
	Maize + Black Gram	NR	34.9	4.5	12.1	157.9	25.2	125.2
		WR	37.0	4.7	12.8	172.0	27.2	140.3
Mean of location			41.1	4.7	11.1	178.3	27.6	138.6
Equal row			38.9	4.5	10.6	169.6	26.2	131.6
Paired row			43.4	4.9	11.6	187.1	29.0	145.6
C. D. at (5%)			2.4	0.3	0.8	13.2	2.1	11.6
Significance			S	S	S	S	S	S
Maize+Soybean			48.1	5.0	10.4	189.7	28.7	142.4
Maize+Black Gram			34.2	4.4	11.8	167.0	26.5	134.8
C. D. at (5%)			2.4	0.3	0.8	13.2	2.1	11.6
Significance			S	S	S	S	S	N.S.
Clean cultivation			40.3	4.6	10.9	166.6	25.7	126.3
Residue retention as mulch (5t/ha)			42.0	4.8	11.4	190.0	29.5	150.9
C. D. at (5%)			2.4	0.3	0.8	13.2	2.1	11.6
Significance			N.S.	N.S.	N.S.	S	S	S

Table 25: Effect of planting systems and intercropping with and without residue retention under rainfed condition in Banswara.

Planting system	Intercrop	Residue level	Maize yield (kg/ha)	Intercrop yield (kg/ha)	Maize equivalent yield (kg/ha)
Equal row	Maize+Soybean	Clean field	3267	801	5327
		Residue	3880	829	6012
	Maize+Blackgram	Clean field	3764	580	5423
		Residue	4080	647	5928
Paired row	Maize+Soybean	Clean field	3631	846	5807
		Residue	4096	929	6484
	Maize+Blackgram	Clean field	3797	680	5740
		Residue	4229	729	6314
Mean of location			3843.2	755.2	5879.3
Equal row			3748	714	5672
Paired row			3938	796	6086
C. D. at (5%)			122.5	65.9	222.1
Significance			S	S	S
Maize+Soybean			3719	851	5907
Maize+Blackgram			3968	659	5851
C. D. at (5%)			122.5	65.9	222.1
Significance			S	S	N.S.
Clean field			3615	727	5574
Residue			4071	784	6184
C. D. at (5%)			122.5	65.9	222.1
Significance			S	N.S.	S

Treatment details:

A. Main Plot: Planting system (2)

D₁ Equal rows at 67cm

D₂ Paired row (84:50 cm)

B. Sub plot: Intercropping (2)

S₁ Maize+Soybean

S₂ Maize+Blackgram

C. Sub-sub plots: Residue levels (2)

M₀ Clean Field

M₁ Residue retention as mulch@5t/ha

Table 26: Effect of row arrangement, intercropping and residue levels on productivity of maize under rain fed conditions at Udaipur.

Planting system	Intercrop	Residue	Maize Grain yield (kg/ha)	Maize stover yield (kg/ha)	Intercrop yield (kg/ha)	Maize plant ('000/ha)	Maize cobs ('000/ha)	Maize plant height (cm)	Net returns (Rs/ha)	B:C ratio
Equal row	Black Gram	Clean field	4020	6027	507	47.3	46.9	182.6	47385	2.4
	Soybean		3923	5853	1217	47.9	47.6	180.2	68088	3.3
Paired row	Black Gram		4020	5970	600	47.8	47.4	183.3	50343	2.6
	Soybean		4023	5937	1303	48.4	48.1	180.5	72093	3.5
Equal row	Black Gram	Surface residue @ 6t/ha	4427	7053	620	47.8	47.4	188.2	53864	2.4
	Soybean		4447	7120	1323	47.8	47.8	185.2	75862	3.3
Paired row	Black Gram		4540	7140	737	48.6	48.3	186.9	58989	2.7
	Soybean		4437	7030	1407	47.8	47.3	185.3	78365	3.4
Mean of location			4229.6	6516.3	964.2	96.3	95.7	184.0	63123.5	3.0
Equal row at 67 cm			3997	5947	907	47.8	47.5	181.7	59477	3.0
Paired row at 84:50 cm			4463	7086	1022	48.0	47.7	186.4	66770	3.0
C. D. at (5%)			222.9	312.9	83.2	2.1	1.7	4.1	5273.8	0.2
Significance			S	S	S	N.S.	N.S.	S	S	N.S.
Black Gram			4204	6513	917	47.7	47.4	184.1	61300	2.9
Soybean			4255	6519	1012	48.1	47.8	184.0	64947	3.0
C. D. at (5%)			222.9	312.9	83.2	2.1	1.7	4.1	5273.8	0.2
Significance			N.S.	N.S.	S	N.S.	N.S.	N.S.	N.S.	N.S.
Clean field			4252	6548	616	47.8	47.5	185.3	52645	2.5
Surface residue @ 6t/ha			4208	6485	1313	48.0	47.7	182.8	73602	3.4
C. D. at (5%)			222.9	312.9	83.2	2.1	1.7	4.1	5273.8	0.2
Significance			N.S.	N.S.	S	N.S.	N.S.	N.S.	S	S

Treatment details:

A. Main plot: Planting system (2)

RA₁ Equal row at 67 cm spacing

RA₂ Paired row at 84:50 cm spacing

B. Sub plot: Intercropping (2)

I₁ Soybean

I₂ Black gram

C. Sub-sub plots: Residue management (2)

RM₁ Clean field

RM₂ Surface residue@6t/ha

Table 27: Nutrient Management in maize-wheat-greengram cropping system under different tillage practices at Karnal.

Tillage practices	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
Zero tillage	RDF	5772	7200	64.7	64.7	225.3	52.7	55.7
	SSNM	6282	7853	65.9	66.1	228.3	52.0	54.7
	FFP	6737	8422	64.4	64.7	236.7	50.3	52.7
Conventional tillage	RDF	5397	6759	63.6	63.6	220.3	53.7	56.7
	SSNM	5841	7302	64.9	65.1	224.3	53.3	56.3
	FFP	6217	7803	63.9	64.3	229.7	52.3	55.0
Permanent tillage	RDF	5434	6793	64.0	64.1	223.7	52.3	55.3
	SSNM	6153	7692	64.9	65.1	226.0	51.7	54.3
	FFP	6646	8315	65.5	65.8	232.0	50.7	53.0

Location mean	6053.1	7570.9	64.6	64.8	227.4	52.1	54.9
C.D.(5%) AiBj-AiBk	451.4	561.4	4.4	4.3	14.5	1.1	1.7
C.D.(5%) AiBk-AjBk	472.3	600.8	4.3	4.3	15.5	1.1	1.7
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

Zero tillage	6263	7825	65.0	65.2	230.1	51.7	54.3
Conventional tillage	5818	7288	64.1	64.3	224.8	53.1	56.0
Permanent tillage	6078	7600	64.8	65.0	227.2	51.6	54.2

C.D. (5%) Ai-Aj	300.3	394.7	2.5	2.5	10.2	0.6	0.9
C.V. (%) Error A	3.8	4.0	3.0	2.9	3.4	0.9	1.3
F (5%)	s	s	n.s.	n.s.	n.s.	s	s

RDF	5534	6917	64.1	64.2	223.1	52.9	55.9
SSNM	6092	7615	65.2	65.4	226.2	52.3	55.1
FFP	6533	8180	64.6	64.9	232.8	51.1	53.6

C.D. (5%) Bi-Bj	260.6	324.1	2.5	2.5	8.4	0.7	1.0
C.V. (%) ErrorB	4.2	4.2	3.8	3.7	3.6	1.2	1.8
F (5%)	s	s	n.s.	n.s.	n.s.	s	s

Treatment details:**A. Main plot: Tillage Practices**

- T₁ Zero tillage
T₂ Conventional tillage
T₃ Permanent tillage

B. Sub Plots: Nutrient management (N+ P₂O₅+K₂O kg/ha)

- F₁ RDF (150:60:60)
F₂ SSNM based on nutrient expert (172:65:74)
F₃ Farmers Practice (210:95:50)

Table 28: Nutrient management in maize-wheat-green gram cropping systems under different tillage practices at Pantnagar.

Tillage practices	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking
Zero Till	FFP	4921	6143	7968	65.1	65.6	167.6	46.3	49.7
	SSNM	6323	7693	10016	64.6	65.1	175.0	46.7	49.7
	100% RDF	6476	7720	10354	63.0	64.0	180.3	46.3	50.0
Conventional Till	FFP	4386	5302	8233	63.0	63.0	171.5	47.0	51.0
	SSNM	6995	8344	10910	65.1	66.1	184.2	47.3	50.7
	100% RDF	7032	8550	11005	64.6	65.6	182.1	47.3	50.7
Permanent Bed	FFP	3868	4667	7143	63.0	63.0	163.5	46.3	49.0
	SSNM	4751	5608	7974	63.5	64.0	175.5	46.3	49.7
	100% RDF	4593	5529	7942	63.0	63.5	175.5	46.0	49.3
Location mean		5482.7	6617.3	9060.6	63.8	64.4	175.0	46.6	50.0
C.D.(5%) AiBj-AiBk		677.8	758.5	1807.5	3.5	4.5	15.7	1.5	2.0
C.D.(5%) AiBk-AjBk		809.3	1005.2	2023.8	3.6	4.3	17.2	1.7	2.0
F(5%)		s	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
Zero Till		5907	7185	9446	64.2	64.9	174.3	46.4	49.8
Conventional Till		6138	7399	10049	64.2	64.9	179.3	47.2	50.8
Permanent Bed		4404	5268	7686	63.1	63.5	171.5	46.2	49.3
C.D. (5%) Ai-Aj		598.5	801.0	1405.8	2.2	2.3	11.6	1.3	1.2
C.V. (%) Error A		8.3	9.2	11.9	2.6	2.8	5.1	2.1	1.8
F (5%)		s	s	s	n.s.	n.s.	n.s.	n.s.	n.s.
FFP		4392	5370	7781	63.7	63.8	167.5	46.6	49.9
SSNM		6023	7215	9633	64.4	65.1	178.2	46.8	50.0
100% RDF		6034	7266	9767	63.5	64.4	179.3	46.6	50.0
C.D. (5%) Bi-Bj		391.3	437.9	1043.6	2.0	2.6	9.1	0.8	1.2
C.V. (%) ErrorB		6.9	6.4	11.2	3.1	4.0	5.0	1.8	2.3
F (5%)		s	s	s	n.s.	n.s.	s	n.s.	n.s.

Treatment details:**A. Main plot: Tillage practices**

- T₁ Zero Till
T₂ Conventional Till
T₃ Permanent Bed

B. Sub plot: Nutrient management (N:P₂O₅:K₂O kg/ha)

- F₁ Farmer's practice (93:64:32)
F₂ SSNM based on nutrient expert (120:10:46)
F₃ 100% RDF (120:60:40 kg)

Cont....

Tillage practices	Nutrient management	Cob length (cm)	Cob girth (cm)	1000-grain weight (g)	Net returns (Rs. /ha)	BC ratio	N uptake by grain (kg/ha)	N uptake by stover (kg/ha)	Total N uptake (kg/ha)
Zero Till	FFP	13.2	12.0	244.0	48780	3.11	66.9	20.9	87.8
	SSNM	14.6	13.0	270.3	68448	4.76	92.7	45.6	138.3
	100% RDF	14.8	13.3	277.3	67926	4.01	95.1	48.1	143.1
Conventional Till	FFP	14.1	12.5	262.3	33807	1.43	59.5	27.5	87.0
	SSNM	15.3	13.5	285.3	69328	3.11	103.9	53.0	156.9
	100% RDF	15.4	13.8	284.0	67262	2.70	107.4	49.7	157.1
Permanent Bed	FFP	12.4	11.7	236.7	33172	1.89	48.2	19.2	67.4
	SSNM	13.4	12.2	257.7	46003	2.84	69.5	33.4	102.9
	100% RDF	13.5	12.7	261.3	41384	2.20	67.2	33.9	101.2
Location mean		14.1	12.8	264.3	52901.2	2.89	78.9	36.8	115.7
C.D.(5%) AiBj-AiBk		1.8	1.4	29.2	8912.4	0.50	8.9	10.5	16.0
C.D.(5%) AiBk-AjBk		1.9	1.7	33.9	10562.9	0.61	13.4	10.6	16.3
F(5%)		n.s.	n.s.	n.s.	s	n.s.	s	n.s.	s
Zero Till		14.2	12.8	263.9	61718	3.96	84.9	38.2	123.1
Conventional Till		14.9	13.3	277.2	56799	2.41	90.2	43.4	133.7
Permanent Bed		13.1	12.2	251.9	40187	2.31	61.6	28.8	90.5
C.D. (5%) Ai-Aj		1.2	1.3	24.5	7762.7	0.46	11.4	6.3	9.9
C.V. (%) Error A		6.3	7.8	7.1	11.2	12.21	11.0	13.1	6.5
F (5%)		s	n.s.	n.s.	s	s	s	s	s
FFP		13.2	12.1	247.7	38586	2.14	58.2	22.5	80.7
SSNM		14.4	12.9	271.1	61260	3.57	88.7	44.0	132.7
100% RDF		14.6	13.3	274.2	58858	2.97	89.9	43.9	133.8
C.D. (5%) Bi-Bj		1.0	0.8	16.9	5145.6	0.29	5.2	6.1	9.2
C.V. (%) ErrorB		7.2	6.1	6.2	9.5	9.74	6.4	16.1	7.8
F (5%)		s	s	s	s	s	s	s	s

Cont....

Tillage practices	Nutrient management	P uptake by grain (kg/ha)	P uptake by stover (kg/ha)	Total P uptake (kg/ha)	K uptake by grain (kg/ha)	K uptake by stover (kg/ha)	Total K uptake (kg/ha)
Zero Till	FFP	15.0	8.8	23.8	15.5	48.0	63.5
	SSNM	20.1	11.3	31.4	21.6	62.7	84.3
	100% RDF	19.6	12.8	32.5	20.8	76.6	97.4
Conventional Till	FFP	13.9	10.3	24.2	14.9	64.3	79.2
	SSNM	20.8	13.3	34.2	25.3	94.6	119.9
	100% RDF	20.9	13.5	34.3	28.9	88.4	117.3
Permanent Bed	FFP	12.1	7.3	19.4	12.7	50.0	62.7
	SSNM	13.6	9.0	22.6	17.1	59.1	76.1
	100% RDF	14.1	9.9	23.9	15.7	57.1	72.8

Location mean	16.7	10.7	27.4	19.2	66.8	85.9
C.D.(5%) AiBj-AiBk	3.5	2.7	4.4	3.4	22.7	22.6
C.D.(5%) AiBk-AjBk	4.3	2.7	5.2	3.4	28.1	29.5
F(5%)	n.s.	n.s.	n.s.	s	n.s.	n.s.

Zero Till	18.3	11.0	29.2	19.3	62.4	81.7
Conventional Till	18.5	12.4	30.9	23.0	82.4	105.5
Permanent Bed	13.2	8.7	22.0	15.2	55.4	70.5

C.D. (5%) Ai-Aj	3.3	1.6	3.9	2.0	21.3	23.3
C.V. (%) Error A	15.0	11.6	10.8	8.0	24.4	20.7
F (5%)	s	s	s	s	n.s.	s

FFP	13.7	8.8	22.5	14.4	54.1	68.5
SSNM	18.2	11.2	29.4	21.3	72.1	93.4
100% RDF	18.2	12.1	30.2	21.8	74.0	95.8

C.D. (5%) Bi-Bj	2.0	1.5	2.5	2.0	13.1	13.0
C.V. (%) ErrorB	11.7	14.1	9.0	9.9	19.1	14.8
F (5%)	s	s	s	s	s	s

Table 29: Nutrient management in maize-wheat cropping system under different tillage practices at Dholi.

Tillage	Nutrient level	Plants/plot	Cobs/plot	Plant height (cm)	Days to 50% tasseling	Days of 50% Silking	Days of 75% Maturity
Zero tillage	F ₁	148.3	157.7	152.7	49.3	52.7	93.0
	F ₂	149.7	159.0	159.7	50.0	53.3	92.0
	F ₃	149.0	158.0	162.7	51.0	54.0	93.3
Conventional tillage	F ₁	149.0	164.7	167.2	49.3	52.3	94.0
	F ₂	149.0	166.7	162.7	51.0	54.0	94.3
	F ₃	149.3	169.7	165.4	51.3	54.3	94.3
Bed planting	F ₁	147.7	175.7	171.3	49.0	52.3	92.3
	F ₂	148.3	176.3	162.7	50.3	53.3	92.3
	F ₃	148.7	179.3	172.8	49.3	52.7	91.7
Location mean		148.8	167.4	164.1	50.1	53.2	93.0
C.D.(5%) AiBj-AiBk		2.5	3.3	7.5	2.3	2.3	1.3
C.D.(5%) AiBk-AjBk		2.7	4.0	7.9	2.6	2.3	1.4
F(5%)		n.s.	n.s.	s	n.s.	n.s.	n.s.
Zero tillage		149.0	158.2	158.3	50.1	53.3	92.8
Conventional tillage		149.1	167.0	165.1	50.6	53.6	94.2
Bed planting		148.2	177.1	169.0	49.6	52.8	92.1
C.D. (5%) Ai-Aj		1.7	3.0	5.0	1.8	1.3	1.0
C.V. (%) Error A		0.9	1.4	2.3	2.8	1.9	0.8
F (5%)		n.s.	s	s	n.s.	n.s.	s
F1		148.3	166.0	163.7	49.2	52.4	93.1
F2		149.0	167.3	161.7	50.4	53.6	92.9
F3		149.0	169.0	167.0	50.6	53.7	93.1
C.D. (5%) Bi-Bj		1.5	1.9	4.3	1.3	1.3	0.7
C.V. (%) ErrorB		1.0	1.1	2.6	2.6	2.4	0.8
F (5%)		n.s.	s	n.s.	n.s.	n.s.	n.s.

Treatment details:**A. Main plot: Tillage practices (3)**

- T₁ Zero tillage
T₂ Conventional tillage
T₃ Bed planting

B. Sub-Plots: Nutrient management (N:P₂O₅:K₂O kg/ha) (3)

- F₁ 100% RDF
F₂ SSNM based on nutrient expert
F₃ Farmer's fertilizer practice

Table 30: Nutrient management in maize-wheat-greengram cropping system under different tillage practices at Banswara.

Tillage practices	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)
Zero tillage	100% RDF	4931	5764	62.6	52.2	225.0
	SSNM	5458	6042	64.4	53.8	233.3
	FFP	4167	5069	61.7	45.8	203.3
Conventional tillage	100% RDF	4347	5139	62.3	47.1	222.7
	SSNM	4514	5139	63.8	50.7	228.3
	FFP	3528	4306	61.3	39.9	201.7
Permanent bed	100% RDF	4306	5000	62.4	49.3	221.7
	SSNM	4653	5347	61.9	50.0	236.0
	FFP	3542	4375	61.8	39.9	203.7
Location mean		4382.7	5131.2	62.5	47.6	219.5
C.D.(5%) AiBj-AiBk		561.9	657.7	1.7	4.9	8.3
C.D.(5%) AiBk-AjBk		496.1	571.4	2.0	4.6	9.2
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.
Zero tillage		4852	5625	62.9	50.6	220.6
Conventional tillage		4130	4861	62.5	45.9	217.6
Permanent bed		4167	4907	62.0	46.4	220.4
C.D. (5%) Ai-Aj		192.6	199.8	1.4	2.3	6.4
C.V. (%) Error A		3.4	3.0	1.7	3.7	2.2
F (5%)		s	s	n.s.	s	n.s.
100% RDF		4528	5301	62.4	49.5	223.1
SSNM		4875	5509	63.4	51.5	232.6
FFP		3745	4583	61.6	41.9	202.9
C.D. (5%) Bi-Bj		324.4	379.7	1.0	2.8	4.8
C.V. (%) ErrorB		7.2	7.2	1.5	5.8	2.1
F (5%)		s	s	s	s	s

Treatment details:**A. Main plot: Tillage practices (3)**

- T₁ Zero tillage
T₂ Conventional tillage
T₃ Permanent bed

B. Sub plot: Nutrient management (kg N:P₂O₅:K₂O/ha) (3)

- F₁ 100% of RDF (120:60:40)
F₂ SSNM based on nutrient expert (130:37:41)
F₃ Farmer practices (87:46 kg N:P₂O₅/ha)

Table 31: Nutrient management in maize-wheat-green gram cropping system under different tillage practices at Udaipur.

Tillage practices	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Net returns (Rs/ha)	BC ratio
ZT	RDF	3403	5147	61.3	59.6	230.0	49.7	54.3	38815	1.9
CT		2987	4290	60.9	58.8	227.7	50.0	55.0	33825	1.5
PB		3400	5187	61.6	59.7	229.7	50.0	54.7	39186	1.8
ZT	SSNM	3600	5633	62.7	61.3	237.0	49.0	54.0	42634	2.1
CT		3235	4857	62.1	61.0	236.0	49.0	54.0	38206	1.7
PB		3643	5713	63.0	61.2	237.7	48.3	54.0	43146	1.9
ZT	FFP	2833	4457	61.0	58.8	228.3	50.0	55.7	33823	1.7
CT		2400	3357	61.6	59.7	225.0	50.7	56.0	26690	1.2
PB		2803	4163	61.2	59.3	228.3	49.7	55.3	31530	1.4

Location mean	3145.0	4755.9	61.7	59.9	231.1	49.6	54.8	36428.3	1.7
C.D.(5%) AiBj-AiBk	358.9	489.2	4.3	4.3	11.6	3.1	3.2	3875.3	0.2
C.D.(5%) AiBk-AjBk	414.6	544.6	4.9	4.8	12.8	3.3	3.6	4392.1	0.2
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

Zero tillage	3263	4874	61.3	59.4	229.1	49.9	54.7	37275	1.7
Conventional tillage	3493	5401	62.6	61.2	236.9	48.8	54.0	41329	1.9
Permanent bed	2679	3992	61.3	59.3	227.2	50.1	55.7	30681	1.4

C.D. (5%) Ai-Aj	297.5	375.9	3.5	3.3	8.7	2.3	2.5	3091.4	0.1
C.V. (%) Error A	7.2	6.0	4.4	4.3	2.9	3.5	3.5	6.5	6.4
F (5%)	s	s	n.s.	n.s.	n.s.	n.s.	n.s.	s	s

RDF	3279	5079	61.7	59.9	231.8	49.6	54.7	38424	1.9
SSNM	2874	4168	61.5	59.9	229.6	49.9	55.0	32907	1.5
FFP	3282	5021	61.9	60.0	231.9	49.3	54.7	37954	1.7

C.D. (5%) Bi-Bj	207.2	282.4	2.5	2.5	6.7	1.8	1.8	2237.4	0.1
C.V. (%) ErrorB	6.4	5.8	3.9	4.0	2.8	3.5	3.3	6.0	6.0
F (5%)	s	s	n.s.	n.s.	n.s.	n.s.	n.s.	s	s

Treatment details:**A. Main plot: Tillage practices (3)**T₁ Zero tillage (ZT)T₂ Conventional tillage (CT)T₃ Permanent bed (PB)**B. Sub plot: Nutrient management (kg N:P₂O₅:K₂O/ha) (3)**F₁ RDFF₂ SSNM Based on nutrient expertF₃ Farmers fertilizer practice

Table 32: Nutrient management in Maize-oat based rainfed cropping systems under different tillage practices at Kashmir.

Tillage practices	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
Conventional Till	100% RDF	4527	13120	82.8	71.5	234.7	84.0	89.0
	SSNM	4620	12724	82.8	73.7	233.7	83.0	87.0
	FFP	2924	9582	82.1	62.8	243.0	79.0	84.3
Permanent Bed	100% RDF	4171	10211	76.6	65.5	237.0	85.0	89.0
	SSNM	4347	10131	75.8	62.6	241.0	83.3	88.7
	FFP	2347	8887	70.0	58.2	238.3	79.7	85.3
Zero Till	100% RDF	5436	13280	82.7	75.8	236.0	87.0	91.3
	SSNM	5627	13467	82.8	78.2	239.0	84.7	89.7
	FFP	3489	10636	82.1	66.4	241.3	81.0	86.0
Location mean		4165.2	11337.5	79.7	68.3	238.2	83.0	87.8
C.D.(5%) AiBj-AiBk		499.2	553.8	1.1	1.4	10.9	3.2	3.3
C.D.(5%) AiBk-AjBk		439.0	540.0	1.0	1.5	10.0	3.4	3.1
F(5%)		n.s.	s	s	s	n.s.	n.s.	n.s.
Conventional Till		4024	11809	82.6	69.3	237.1	82.0	86.8
Permanent Bed		3621	9743	74.1	62.1	238.8	82.7	87.7
Zero Till		4850	12461	82.5	73.4	238.8	84.2	89.0
C.D. (5%) Ai-Aj		166.5	300.7	0.4	1.0	4.6	2.2	1.6
C.V. (%) Error A		3.1	2.0	0.4	1.1	1.5	2.0	1.4
F (5%)		s	s	s	s	n.s.	n.s.	s
100% RDF		4711	12204	80.7	70.9	235.9	85.3	89.8
SSNM		4864	12107	80.5	71.5	237.9	83.7	88.4
FFP		2920	9701	78.1	62.4	240.9	79.9	85.2
C.D. (5%) Bi-Bj		288.2	319.7	0.6	0.8	6.3	1.9	1.9
C.V. (%) ErrorB		6.7	2.7	0.8	1.2	2.6	2.2	2.1
F (5%)		s	s	s	s	n.s.	s	s

Treatment details:**A. Main plot: Tillage practices (3)**T₁ Conventional TillT₂ Permanent BedT₃ Zero Till**B. Sub plot: Nutrient management (kg N:P₂O₅:K₂O/ha) (3)**F₁ 100% RDFF₂ SSNM based on nutrient expertF₃ Farmers fertilizer practice

Cont....

Tillage practices	Nutrient management	N uptake by maize (kg/ha)	P uptake by maize (kg/ha)	K uptake by maize (kg/ha)	Net returns (Rs/ha)	BC Ratio
Conventional Till	100% RDF	138.7	20.3	136.6	99487	2.10
	SSNM	150.0	20.6	137.9	101538	2.15
	FFP	118.9	21.3	149.0	64273	1.36
Permanent Bed	100% RDF	134.4	24.7	164.2	91673	1.94
	SSNM	134.4	22.0	156.4	95531	2.02
	FFP	120.3	22.2	154.2	51575	1.09
Zero Till	100% RDF	148.6	23.5	138.9	119463	2.53
	SSNM	130.8	23.1	147.4	123663	2.61
	FFP	122.2	21.5	144.1	76679	1.62

Location mean 133.1 22.1 147.6
 C.D.(5%) AiBj-AiBk 6.2 2.6 5.3
 C.D.(5%) AiBk-AjBk 8.5 2.8 7.2
 F(5%) s n.s. s

Conventional Till	135.9	20.7	141.1		
Permanent Bed	129.7	23.0	158.3		
Zero Till	133.9	22.7	143.5		

C.D. (5%) Ai-Aj 6.9 1.9 5.8
 C.V. (%) Error A 3.9 6.4 3.0
 F (5%) n.s. n.s. s

100% RDF	140.6	22.8	146.6		
SSNM	138.4	21.9	147.2		
FFP	120.5	21.7	149.1		

C.D. (5%) Bi-Bj 3.6 1.5 3.1
 C.V. (%) ErrorB 2.6 6.6 2.0
 F (5%) s n.s. n.s.

Table 33: Nutrient management in maize-chickpea cropping systems under different tillage practices at Delhi.

Treatment	Cob weight (g)	Grain weight per cob (g)	Cob length (cm)	Grain rows per cob	Grains per row	Cobs ('000/ha)	Grain yield (t/ha)	Test weight (g)
Conservation agriculture								
Zero-tillage	126.6	99.4	16.4	13.5	34.6	65092	4.58	52.7
Permanent bed	116.5	95	15.6	12.5	32.5	62314	4.28	53.1
Conventional tillage	115.7	91.1	15.2	12.3	30.9	57870	4.06	46.7
SEm±	0.79	1.21	0.288	0.131	0.471	2388	0.053	1.05
LSD (0=0.05)	3.15	3.17	NS	0.526	1.898	NS	0.214	4.27
Nutrient management								
Control	108.6	82.9	15.4	12.7	32.1	60000	3.53	48.3
RDF	116.2	96.2	15.7	12.8	32.5	61234	4.48	51.7
SSNF	132.8	104.8	15.7	12.7	32.5	62839	4.8	52.5
50% RDF+CR @ 2.5 t/ha	120.8	98	16.1	12.9	33.7	62963	4.41	50.8
SEm±	1.36	1.6	0.287	0.221	0.273	2569	0.052	0.909
LSD (0=0.05)	4.07	4.8	NS	NS	0.817	NS	0.155	4.27

Table 34: Nutrient management in maize-mustard cropping systems under different tillage practices at Delhi.

Treatment	Cob weight (g)	Grain weight per cob (g)	Cob length (cm)	Grain rows per cob	Grains per row	Cobs ('000/ha)	Grain yield (t/ha)	Test weight (g)	Plant height at harvest (cm)
Conservation agriculture									
Zero-tillage	109.8	85.7	15.6	12.3	32.3	64722	4.43	50.5	136
Permanent bed	107.7	84.6	14.9	12.8	30.2	61338	4.33	50.6	133.1
Conventional tillage	101.4	80	14.2	12.2	29.4	61203	3.84	44.9	159.4
SEm±	1.37	0.84	0.231	0.215	0.496	1920	0.06	0.44	2.05
LSD (0=0.05)	5.52	3.37	NS	NS	1.99	NS	0.243	1.79	8.28
Nutrient management									
Control	91.9	75	14.5	12.3	29.4	62469	3.37	45.7	138.4
RDF	111.8	87.9	15.2	12.4	31.7	64074	4.47	49.8	144.2
SSNF	111.5	86.8	14.9	12.3	29.8	63703	4.66	48.7	141.6
50% RDF+CR @ 2.5 t/ha	110	84.2	15.4	12.7	31.5	59506	4.33	49.5	147.2
SEm±	1.6	0.72	0.489	0.276	0.309	2261	0.057	0.993	3.34
LSD (0=0.05)	4.8	2.16	NS	NS	0.925	NS	0.172	2.97	NS

Table 35: Nutrient management in maize-chickpea cropping system under different tillage practices at Banswara.

Tillage practices	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)
Zero tillage	100% RDF	4514	5347	62.2	48.7	187.7
	SSNM	4792	5625	64.6	51.5	196.7
	FFP	4028	5069	61.7	46.0	170.7
Conventional tillage	100% RDF	4097	4861	62.6	44.4	185.0
	SSNM	4375	5069	63.7	46.4	194.0
	FFP	3611	4514	61.8	41.3	165.0
Permanent bed	100% RDF	4167	4931	62.8	45.8	186.3
	SSNM	4306	5000	63.5	46.0	198.0
	FFP	3750	4722	69.0	43.1	169.0
Location mean		4182.1	5015.4	63.6	45.9	183.6
C.D.(5%) AiBj-AiBk		521.8	667.3	7.2	5.7	3.9
C.D.(5%) AiBk-AjBk		593.8	712.3	7.7	6.1	7.8
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.
Zero tillage		4444	5347	62.8	48.8	185.0
Conventional tillage		4028	4815	62.7	44.0	181.3
Permanent bed		4074	4884	65.1	45.0	184.4
C.D. (5%) Ai-Aj		419.7	466.3	5.0	3.9	7.2
C.V. (%) Error A		7.7	7.1	6.0	6.5	3.0
F (5%)		n.s.	n.s.	n.s.	n.s.	n.s.
100% RDF		4259	5046	62.6	46.3	186.3
SSNM		4491	5231	63.9	48.0	196.2
FFP		3796	4769	64.2	43.5	168.2
C.D. (5%) Bi-Bj		301.2	385.2	4.2	3.3	2.3
C.V. (%) ErrorB		7.0	7.5	6.4	7.0	1.2
F (5%)		s	n.s.	n.s.	s	s

Treatment details:**A. Main plot: Tillage practices (3)**

- T₁ Zero tillage
T₂ Conventional tillage
T₃ Permanent bed

B. Sub plot: Nutrient level (kg N:P₂O₅:K₂O/ha) (3)

- F₁ 100% of RDF (120:60:40)
F₂ SSNM based on nutrient expert (130:37:41)
F₃ Farmer practices (87:46 kg N:P₂O₅/ha)

Table 36: Nutrient management Site-Specific nutrient management (SSNM) in maize-wheat-green gram cropping systems under different tillage practices (maize-mustard cropping system) at Chhindwara.

Tillage practices	Nutrient management	Spacing	Grain yield (kg/ha)	Straw yield (kg/ha)	Plants (000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% silking	Days to 50% brown Husk	No. of Bareness	Net returns (Rs/ha)	BC Ratio
Zero tillage	50% RDF	60x20	5986	12222	77.8	74.3	167.7	65.0	102.0	1.7	51642	3.56
		50x20	6188	12514	95.1	92.4	165.0	66.3	102.0	1.7	52809	3.46
	100% RDF	60x20	6104	13139	77.8	76.4	174.7	65.3	101.7	0.7	52627	3.55
		50x20	6285	12896	95.8	93.8	170.3	65.3	102.0	1.0	53544	3.45
	SSNM	60x20	6500	13299	77.1	75.7	178.0	64.7	101.0	0.7	56918	3.70
		50x20	6743	13375	96.5	92.4	167.3	63.3	101.3	2.0	58585	3.62
Conventional tillage	50% RDF	60x20	6590	13653	76.4	75.0	174.7	64.0	101.7	0.7	56391	3.49
		50x20	6743	13014	97.2	93.8	173.0	65.0	101.7	1.7	56974	3.38
	100% RDF	60x20	6597	13681	79.9	77.8	185.0	63.3	101.3	1.0	56043	3.43
		50x20	6799	13889	97.9	94.4	178.0	64.7	101.7	1.7	57210	3.35
	SSNM	60x20	6757	13875	78.5	78.5	190.7	62.7	102.0	0.7	57501	3.44
		50x20	6910	14076	95.8	95.8	187.3	63.7	100.7	0.7	58084	3.34
Permanent bed	50% RDF	60x20	3729	7354	78.5	72.9	156.0	65.3	102.3	2.7	22064	1.97
		50x20	3764	7410	91.7	85.4	151.3	65.7	102.0	3.0	21230	1.88
	100% RDF	60x20	3785	8069	77.8	74.3	160.0	65.0	102.0	1.7	22299	1.97
		50x20	3944	8278	92.4	87.5	162.3	65.7	102.0	2.3	22965	1.94
	SSNM	60x20	4194	8785	77.8	74.3	170.7	65.3	101.0	1.7	26756	2.14
		50x20	4118	9097	95.1	89.6	166.0	64.7	102.3	2.7	24590	1.99
Mean of location			5652.0	11590.3	41.6	40.1	171.0	64.7	101.7	1.6	44901.9	2.98
Zero tillage			6301	12907	86.7	84.1	170.5	65.0	101.7	1.3	54354	3.56
Conventional tillage			6733	13698	87.6	85.9	181.4	63.9	101.5	1.1	57034	3.40
Permanent bed			3922	8166	85.5	80.7	161.1	65.3	101.9	2.3	23317	1.98
C. D. at (5%)			279.7	439.0	1.0	1.0	6.3	0.5	0.7	1.0	3356.4	0.15
Significance			S	S	N.S.	S	S	S	N.S.	S	S	S
50% RDF			6473	13012	86.7	84.0	171.3	64.9	101.8	1.3	55197	3.46
100% RDF			6530	13529	88.2	85.8	178.5	64.4	101.6	1.2	55446	3.42
SSNM			6763	13763	87.0	86.1	183.6	63.4	101.3	0.9	57779	3.48
C. D. at (5%)			279.7	439.0	1.0	1.0	6.3	0.5	0.7	1.0	3356.4	0.15
Significance			S	S	N.S.	N.S.	S	S	N.S.	N.S.	N.S.	N.S.
60x20 cm			5583	11564	77.9	75.5	173.0	64.5	101.7	1.3	44694	3.03
50x20 cm			5721	11617	95.3	91.7	169.0	64.9	101.7	1.9	45110	2.93
C. D. at (5%)			228.4	358.5	0.8	0.9	5.2	0.4	0.5	0.8	2740.5	0.12
Significance			N.S.	N.S.	S	S	N.S.	S	N.S.	N.S.	N.S.	N.S.

Treatment details:

A. Main plot: Tillage Practices (3)

- T₁ Zero tillage
T₂ Conventional tillage
T₃ Permanent tillage

C. Sub-sub Plots (Plant population) (2)

- S₁ 60 x 20 cm (plant to plant = 83,000/ha plant)
S₂ 50 x 20 cm (plant to plant = 1,00,000/ha plant)

B. Sub plots: Nutrient management (N+ P₂O₅+K₂O kg/ha) (3)

- F₁ 50% RDF (60:30:20)
F₂ 100% RDF (120:60:40)
F₃ SSNM (140:34:71)

Table 37: Nutrient management for maize genotypes under different cropping systems at Bajaura.

Hybrids	Nutrient management	Grain yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% silking	Barrenness (%)
PMH 1	RDF	10132	82.9	79.6	230.8	63.0	3.9
	SSNM	11018	80.1	77.8	243.0	62.3	2.9
	FFP	6744	74.0	69.0	223.3	66.7	8.9
PMH 3	RDF	11220	81.5	78.2	245.6	65.7	4.0
	SSNM	11493	79.2	78.7	243.5	65.0	1.1
	FFP	5999	76.4	70.4	215.1	67.0	7.9
HQPM 1	RDF	8668	79.2	73.2	200.4	63.3	7.5
	SSNM	10932	82.9	78.2	213.6	60.0	6.1
	FFP	6007	81.6	72.7	188.9	66.7	11.3
PMH 2	RDF	7352	76.9	76.9	183.6	56.7	5.3
	SSNM	9081	76.9	79.5	186.9	56.3	2.7
	FFP	6247	77.8	70.7	175.7	56.7	8.3
K-25 Gold	RDF	10462	75.2	74.1	199.8	63.3	5.3
	SSNM	11563	79.2	80.1	193.1	60.0	3.3
	FFP	7013	79.2	70.3	180.5	64.7	11.7
Location mean		8928.7	78.8	75.3	208.3	62.5	6.0
C.D.(5%) AiBj-AiBk		923.7	6.2	6.9	10.8	2.9	3.6
C.D.(5%) AiBk-AjBk		987.3	6.2	6.5	12.1	3.6	3.5
F(5%)		s	n.s.	n.s.	s	n.s.	n.s.
PMH 1		9298	79.0	75.5	232.4	64.0	5.2
PMH 3		9571	79.0	75.8	234.7	65.9	4.3
HQPM 1		8536	81.2	74.7	201.0	63.3	8.3
PMH 2		7560	77.2	75.7	182.1	56.6	5.4
K-25 Gold		9679	77.9	74.8	191.2	62.7	6.8
C.D. (5%) Ai-Aj		639.0	3.7	3.2	8.4	2.7	2.0
C.V. (%) Error A		6.6	4.3	3.9	3.7	4.0	30.1
F (5%)		s	n.s.	n.s.	s	s	s
RDF		9567	79.1	76.4	212.0	62.4	5.2
SSNM		10817	79.6	78.9	216.0	60.7	3.2
FFP		6402	77.8	70.6	196.7	64.3	9.6
C.D. (5%) Bi-Bj		413.1	2.8	3.1	4.8	1.3	1.6
C.V. (%) ErrorB		6.1	4.6	5.4	3.0	2.7	35.1
F (5%)		s	n.s.	s	s	s	s

Treatment details:**A. Main plots: Maize hybrids (5)**

V₁ PMH 1 (10 tones/ha) V₃ HQPM 1 (10 tones/ha) V₅ K-25 Gold (8 tones/ha)
V₂ PMH 3 (10 tones/ha) V₄ PMH 2 (8 tones/ha)

B. Sub plots: Nutrient management (N+ P₂O₅+K₂O kg/ha) (3)

F₁ RDF (120:60:40)
F₂ SSNM based on nutrient expert (170:60:115 for V₁, V₂ & V₃ and 140:47:71 for V₄, V₅)
F₃ Farmers' fertilizer practice- 50% of RDF (60:30:20)

Table 38: Nutrient management of maize genotypes under different cropping systems at Kangra.

Nutrient management	Hybrids	Grain yield (kg/ha)	Straw yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% silking	1000 grain weight (g)	Bareness (%)	Net return (Rs./ha)	BC ratio
SSNM	PAC 740	6832	18047	74.5	73.4	234.3	63.7	260.7	1.4	80087	2.8
	PMZ4	5968	14557	74.5	71.4	214.7	59.3	296.7	4.1	64476	2.2
	PSCL4640	6358	16028	75.4	67.7	219.7	55.3	319.3	10.2	71371	2.5
	HQPM1	4672	10059	74.2	47.9	193.3	57.3	273.3	35.5	42181	1.5
	BISCO 855	6450	16920	75.0	69.8	241.0	59.3	333.0	6.9	73812	2.6
RDF	PAC 740	6459	16424	74.5	70.5	238.3	63.7	257.7	5.3	72383	2.4
	PMZ4	5871	13761	74.5	67.3	196.0	60.0	290.3	9.7	61336	2.1
	PSCL4640	6295	15128	74.3	67.8	219.7	54.3	316.0	8.8	68470	2.3
	HQPM1	4181	8944	71.7	42.6	193.3	58.3	265.0	40.6	33827	1.1
	BISCO 855	6154	15671	74.9	67.8	239.0	60.0	334.0	9.5	67598	2.3
50% RDF	PAC 740	3221	7552	63.7	41.4	227.7	63.0	253.7	35.1	23139	0.9
	PMZ4	2955	6708	62.1	41.8	200.7	58.3	284.0	32.6	18673	0.7
	PSCL4640	3294	7620	59.2	42.9	223.0	53.3	307.3	27.5	24113	0.9
	HQPM1	2358	4670	54.0	38.4	191.7	56.0	285.0	28.9	8456	0.3
	BISCO 855	3556	8225	55.2	50.0	227.3	58.0	335.3	9.5	28165	1.0
FP	PAC 740	5819	13924	63.0	58.8	226.0	63.0	270.7	6.7	58420	1.8
	PMZ4	5224	12292	64.5	53.4	201.7	58.7	288.0	17.1	48835	1.5
	PSCL4640	5364	12444	65.1	54.2	218.3	53.7	311.7	16.6	50745	1.6
	HQPM1	2844	5620	56.9	39.5	185.7	58.3	280.0	30.7	10272	0.3
	BISCO 855	5309	12651	60.0	58.8	212.7	60.0	326.3	2.1	50391	1.6
Location mean		4959.3	11862.3	67.4	56.3	215.2	58.7	294.4	16.9	47837.5	1.6
C.D.(5%) AiBj-AiBk		201.7	635.8	1.7	1.8	7.2	0.8	13.7	3.2	3134.3	0.1
C.D.(5%) AiBk-AjBk		213.8	891.9	1.7	1.9	6.9	0.8	13.8	3.4	3605.4	0.1
F(5%)		s	s	s	s	s	s	n.s.	s	s	s
SSNM: (140:40:46)		6056	15122	74.7	66.0	220.6	59.0	296.6	11.6	66385	2.3
100% RDF (120:60:40)		5792	13986	74.0	63.2	217.3	59.3	292.6	14.8	60723	2.0
50% RDF(60:30:20)		3077	6955	58.9	42.9	214.1	57.7	293.1	26.7	20509	0.8
FP: 10Ton FYM +75kg N		4912	11386	61.9	52.9	208.9	58.7	295.3	14.6	43733	1.4
C.D. (5%) Ai-Aj		116.0	691.9	0.8	1.1	2.5	0.4	6.3	1.8	2289.2	0.1
C.V. (%) Error A		2.6	6.5	1.4	2.2	1.3	0.7	2.4	11.9	5.4	5.4
F (5%)		s	s	s	s	s	s	n.s.	s	s	s
PAC 740		5583	13987	68.9	61.0	231.6	63.3	260.7	12.1	58507	2.0
PMZ-4		5004	11829	68.9	58.5	203.3	59.1	289.8	15.9	48330	1.6
PSCL-4640		5328	12805	68.5	58.1	220.2	54.2	313.6	15.8	53675	1.8
HQPM-1		3514	7323	64.2	42.1	191.0	57.5	275.8	33.9	23684	0.8
BISCO 855		5367	13367	66.3	61.6	230.0	59.3	332.2	7.0	54991	1.9
C.D. (5%) Bi-Bj		100.8	317.9	0.8	0.9	3.6	0.4	6.9	1.6	1567.1	0.1
C.V. (%) ErrorB		2.4	3.2	1.5	1.9	2.0	0.8	2.8	11.3	3.9	4.1
F (5%)		s	s	s	s	s	s	s	s	s	s

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Nutrient management	Hybrids	Nutrient uptake kg/ha			System productivity 2013-14		
		N uptake (kg/ha)	P uptake (kg/ha)	K uptake (kg/ha)	Maize grain yield (kg/ha)	Gobhi sarson seed yield (kg/ha)	Maize equivalent yield or System productivity (kg/ha)
SSNM	PAC 740	154.4	53.2	173.1	5667	1077	8270
	PMZ4	131.2	41.0	136.3	7335	983	9711
	PSCL4640	139.7	42.1	154.4	7380	880	9506
	HQPM1	92.1	29.1	88.0	4496	891	6648
	BISCO 855	129.8	44.7	157.2	6839	1068	9419
RDF	PAC 740	135.8	42.6	159.1	5396	929	7642
	PMZ4	120.3	34.8	124.6	7408	952	9708
	PSCL4640	131.8	39.4	144.0	7046	910	9245
	HQPM1	81.2	24.3	83.1	5637	931	7887
	BISCO 855	115.1	40.7	141.9	5105	919	7327
50% RDF	PAC 740	58.3	20.2	66.0	5041	639	6584
	PMZ4	53.6	18.2	52.6	6717	670	8337
	PSCL4640	61.2	17.4	66.8	7146	648	8712
	HQPM1	42.0	11.5	42.2	4804	662	6403
	BISCO 855	66.1	20.8	64.8	4301	637	5840
FP	PAC 740	117.9	38.3	131.4	4154	825	6148
	PMZ4	102.4	34.3	110.1	5024	806	6973
	PSCL4640	105.3	33.6	104.6	4686	793	6603
	HQPM1	51.5	16.5	44.5	4390	839	6418
	BISCO 855	101.4	33.0	103.6	4737	817	6712
Location mean		99.6	31.8	107.4	5665.5	843.8	7704.7
C.D.(5%) AiBj-AiBk		20.0	4.8	14.7	692.4	133.6	831.5
C.D.(5%) AiBk-AjBk		19.9	4.7	15.2	651.5	129.0	769.6
F(5%)		n.s.	s	s	s	n.s.	s
SSNM: (140:40:46)		129.4	42.0	141.8	6343	980	8711
100% RDF (120:60:40)		116.9	36.4	130.5	6119	928	8362
50% RDF (60:30:20)		56.3	17.6	58.5	5602	651	7175
FP: 10Ton FYM +75kg N		95.7	31.1	98.8	4598	816	6571
C.D. (5%) Ai-Aj		8.7	1.9	7.8	205.0	49.4	200.5
C.V. (%) Error A		9.8	6.6	8.1	4.0	6.6	2.9
F (5%)		s	s	s	s	s	s
PAC 740		116.6	38.6	132.4	5065	868	7161
PMZ-4		101.9	32.1	105.9	6621	853	8682
PSCL-4640		109.5	33.1	117.4	6565	808	8517
HQPM-1		66.7	20.3	64.4	4832	831	6839
BISCO 855		103.1	34.8	116.9	5246	860	7324
C.D. (5%) Bi-Bj		10.0	2.4	7.3	346.2	66.8	415.7
C.V. (%) ErrorB		12.1	9.0	8.2	7.3	9.5	6.5
F (5%)		s	s	s	s	n.s.	s

Table 39: Nutrient management for Maize genotypes under different cropping systems at Kashmir.

Hybrids	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
DKC 7074	100% RDF	5800	13167	70.2	60.0	214.7	92.0	97.3
HQPM-1		6467	13483	69.7	59.5	238.3	86.3	90.7
Bio 605		6283	12900	70.8	60.5	217.7	87.3	92.3
Kanchan 101		5483	12983	71.2	61.0	232.3	90.0	95.3
HM-4		5100	12117	71.3	62.0	213.3	83.0	87.7
DKC 7074	SSNM	5233	13350	70.3	60.2	218.3	91.0	95.0
HQPM-1		6250	12400	70.0	59.5	240.3	85.7	90.3
Bio 605		6000	11783	71.3	61.5	219.3	88.0	93.0
Kanchan 101		5050	11400	70.5	60.7	235.7	87.0	92.7
HM-4		4617	10517	70.5	60.3	219.7	87.3	93.7
DKC 7074	FFP	3283	8550	71.2	57.0	194.0	83.7	89.7
HQPM-1		3867	9050	70.5	57.0	211.7	78.7	83.7
Bio 605		3550	9133	71.3	59.2	211.7	82.3	88.0
Kanchan 101		3167	8167	71.2	57.8	215.7	84.7	89.3
HM-4		2667	8800	70.8	56.3	208.3	78.0	82.7
Location mean		4854.4	11186.7	70.7	59.5	219.4	85.7	90.8
C.D.(5%) AiBj-AiBk		553.0	1495.3	2.5	2.6	10.2	2.1	2.9
C.D.(5%) AiBk-AjBk		753.4	1521.8	2.6	3.1	8.9	2.7	2.8
F(5%)		s	n.s.	n.s.	n.s.	s	s	s
DKC 7074		6183	13183	70.2	60.0	223.6	88.6	93.4
HQPM-1		5272	12817	70.9	61.1	221.3	88.0	92.7
Bio 605		5767	11861	70.6	60.6	231.8	86.9	92.0
Kanchan 101		3922	9372	70.7	58.1	208.4	83.2	89.0
HM-4		3128	8700	71.1	57.8	211.9	81.7	86.7
C.D. (5%) Ai-Aj		604.2	911.3	1.5	2.3	3.2	2.1	1.6
C.V. (%) Error A		11.4	7.5	2.0	3.5	1.3	2.2	1.6
F (5%)		s	s	n.s.	s	s	s	s
100% RDF		5140	11640	70.6	60.0	223.7	87.5	92.9
SSNM		4803	10820	70.9	59.6	216.1	85.1	90.1
FFP		4620	11100	70.6	58.9	218.3	84.4	89.3
C.D. (5%) Bi-Bj		247.3	668.7	1.1	1.2	4.6	0.9	1.3
C.V. (%) ErrorB		6.7	7.8	2.1	2.6	2.7	1.4	1.9
F (5%)		s	n.s.	n.s.	n.s.	s	s	s

Treatment details:**A. Main plot: Hybrids (5)**

- H₁ DKC 7074
H₂ HQPM-1
H₃ Bio 605
H₄ Kanchan 101
H₅ HM-4

B. Sub plot: Nutrient management (N+ P₂O₅+K₂O kg/ha) (3)

- F₁ 100% RDF
F₂ SSNM based on nutrient expert
F₃ Farmers fertilizer practice

Cont....

Hybrids	Nutrient management	N uptake by maize (kg/ha)	P uptake by maize (kg/ha)	K uptake by maize (kg/ha)	Net returns (Rs/ha)	B:C Ratio
DKC 7074	100% RDF	139.4	19.3	164.6	127600	2.70
HQPM-1		146.6	18.9	158.5	142267	3.01
Bio 605		159.6	20.5	167.2	138233	2.92
Kanchan 101		145.8	21.4	157.3	120633	2.55
HM-4		144.1	20.5	169.7	112200	2.37
DKC 7074	SSNM	148.1	19.9	161.3	115133	2.43
HQPM-1		157.8	21.2	161.4	137500	2.91
Bio 605		156.0	21.9	169.4	132000	2.79
Kanchan 101		145.2	21.3	149.1	111100	2.35
HM-4		148.9	19.8	159.7	101567	2.15
DKC 7074	FFP	140.0	22.0	167.9	72233	1.53
HQPM-1		134.7	21.0	162.4	85067	1.80
Bio 605		139.0	20.0	166.2	78100	1.65
Kanchan 101		133.8	21.5	156.6	69667	1.47
HM-4		134.4	20.5	160.6	58667	1.24

Location mean	144.9	20.6	162.1
C.D.(5%) AiBj-AiBk	7.2	2.0	6.1
C.D.(5%) AiBk-AjBk	8.1	1.9	5.5
F(5%)	s	n.s.	s

DKC 7074	148.5	19.6	163.4		
HQPM-1	146.0	20.6	162.8		
Bio 605	153.0	21.5	160.0		
Kanchan 101	141.2	20.9	163.3		
HM-4	135.7	20.7	161.1		

C.D. (5%) Ai-Aj	5.6	1.0	2.5
C.V. (%) Error A	3.6	4.6	1.4
F (5%)	s	s	s

100% RDF	146.2	20.4	161.8		
SSNM	144.1	21.0	164.4		
FFP	144.4	20.6	160.1		

C.D. (5%) Bi-Bj	3.2	0.9	2.7
C.V. (%) ErrorB	2.9	5.6	2.2
F (5%)	n.s.	n.s.	s

Table 40: Nutrient requirement of maize genotypes under maize wheat cropping systems at Karnal.

Nutrient management t	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
100% RDF	HQPM-1	5666	7455	66.7	183.7	51.0	53.7
	PMH-1	5615	7389	68.6	245.0	50.3	53.0
	PMH-3	5817	7654	65.9	238.3	52.7	55.3
	PMH-4	5981	7869	69.4	174.7	50.3	53.0
	CMH-08-292	5364	7058	65.9	223.3	51.0	53.7
SSNM	HQPM-1	5932	7704	67.1	197.0	52.0	54.7
	PMH-1	6047	7853	68.2	255.7	51.3	54.0
	PMH-3	617	8018	68.2	249.3	52.0	54.7
	PMH-4	6621	8598	64.7	202.7	50.0	52.7
	CMH-08-292	5829	7571	68.2	234.3	49.3	52.0
FFP	HQPM-1	6845	8776	67.1	208.7	49.3	52.0
	PMH-1	6812	8733	65.9	259.0	48.7	51.3
	PMH-3	7144	9159	67.1	254.7	50.0	52.7
	PMH-4	7328	9395	66.3	235.0	48.0	50.7
	CMH-08-292	6801	8719	66.7	243.3	48.7	51.3
Location mean		6265.0	8130.0	67.1	227.0	50.3	53.0
C.D.(5%) AiBj-AiBk		549.3	715.4	4.6	15.0	1.3	1.3
C.D.(5%) AiBk-AjBk		573.0	745.1	4.6	23.5	1.7	1.7
F(5%)		n.s.	n.s.	n.s.	s	n.s.	n.s.
100 RDF		5689	7485	67.3	213.0	51.1	53.7
SSNM		6121	7949	67.3	227.8	50.9	53.6
FFP		6986	8956	66.6	240.1	48.9	51.6
C.D. (5%) Ai-Aj		303.2	392.5	2.2	19.5	1.3	1.3
C.V. (%) Error A		4.8	4.8	3.3	8.5	2.6	2.5
F (5%)		s	S	n.s.	s	s	s
HQPM-1		6148	7978	66.9	196.4	50.8	53.4
PMH-1		6158	7992	67.6	253.2	50.1	52.8
PMH-3		6378	8277	67.1	247.4	51.6	54.2
PMH-4		6643	8621	66.8	204.1	49.4	52.1
CMH-08-292		5997.9	7782.4	66.9	233.7	49.7	52.3
C.D. (5%) Bi-Bj		317.1	413.1	2.6	8.7	0.7	0.7
C.V. (%) ErrorB		5.2	5.2	4.1	3.9	1.5	1.4
F (5%)		s	S	n.s.	s	s	s

Treatment details:**A. Main plot: Nutrient levels (N+P₂O₅+K₂O kg/ha) (3)**F₁ 100% RDF (150-60-60)F₂ SSNM Based on Nutrient expert (172-65-74)F₃ Farmers Practice (210-95-50)**B. Sub plot: Genotypes (5)**G₁ HQPM-1G₄ PMH-4G₂ PMH-1G₅ CMH-08-292G₃ PMH-3

Table 41: Nutrient management for maize genotypes under different cropping systems at Ludhiana.

Hybrids	Nutrient management	Grain yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Days 50% tasseling	Days 50% silking	Days 75% Husk Brown
PMH 1	RDF	7951	65.3	65.5	54.0	56.7	88.3
	SSNM	8056	65.5	65.7	52.3	55.3	93.7
	FFP	7326	65.7	65.7	54.3	57.3	87.0
PMH 3	RDF	7917	65.3	66.0	53.7	56.7	92.0
	SSNM	8264	65.7	66.0	52.7	55.3	95.0
	FFP	7014	65.3	65.5	54.7	58.3	87.7
HQPM 1	RDF	6528	64.6	64.8	53.7	55.7	91.3
	SSNM	6944	65.3	65.3	53.0	55.3	92.3
	FFP	5868	64.8	65.3	54.0	57.0	90.7
PMH 4	RDF	7014	65.3	67.4	51.3	51.3	87.3
	SSNM	7639	65.3	67.4	49.3	51.7	86.3
	FFP	6354	65.5	66.7	52.0	55.3	86.0
CM-08-292	RDF	7569	65.5	66.0	54.3	56.0	91.7
	SSNM	8229	65.5	66.4	51.0	52.7	85.0
	FFP	6424	64.8	66.0	55.0	58.7	91.0
Location mean		7273.1	65.3	66.0	53.0	55.6	89.7
C.D.(5%) AiBj-AiBk		1158.3	2.3	3.0	5.1	5.1	5.5
C.D.(5%) AiBk-AjBk		1134.8	2.4	3.2	4.5	4.5	5.5
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	s
PMH 1		7778	65.5	65.7	53.6	56.4	89.7
PMH 3		7731	65.4	65.8	53.7	56.8	91.6
HQPM 1		6447	64.9	65.1	53.6	56.0	91.4
PMH 4		7002	65.4	67.1	50.9	52.8	86.6
CM-08-292		7407	65.3	66.1	53.4	55.8	89.2
C.D. (5%) Ai-Aj		629.3	1.5	2.0	1.6	1.7	3.1
C.V. (%) Error A		8.0	2.1	2.8	2.8	2.8	3.2
F (5%)		s	n.s.	n.s.	s	s	s
RDF		7396	65.2	65.9	53.4	55.3	90.1
SSNM		7826	65.5	66.2	51.7	54.1	90.5
FFP		6597	65.2	65.8	54.0	57.3	88.5
C.D. (5%) Bi-Bj		518.0	1.0	1.4	2.3	2.3	2.5
C.V. (%) ErrorB		9.4	2.1	2.7	5.6	5.4	3.6
F (5%)		s	n.s.	n.s.	n.s.	s	n.s.

Treatment details:**A. Main plots: Genotypes (5)**G₁ PMH 1 G₃ HQPM 1 G₅ CM-08-292G₂ PMH 3 G₄ PMH 4**B. Sub plot: Nutrient management (N+ P₂O₅+K₂O kg/ha) (3)**N₁ RDFN₂ SSNMN₃ FFP

Cont....

Hybrids	Nutrient management	Cob length (cm)	Cob girth (cm)	Grain row/cob	Plant height (cm)	Net returns (Rs/ha)	B:C ratio
PMH 1	RDF	19.0	4.3	14.0	222.3	62977	1.30
	SSNM	19.6	4.4	14.7	229.7	53592	0.91
	FFP	18.7	4.1	13.3	219.7	55202	1.17
PMH 3	RDF	18.9	4.2	14.0	219.0	62491	1.29
	SSNM	19.5	4.4	14.7	221.7	56509	0.95
	FFP	18.6	4.1	13.3	211.3	50827	1.07
HQPM 1	RDF	17.8	4.2	14.0	188.0	43046	0.89
	SSNM	18.7	4.2	14.0	192.7	41105	0.73
	FFP	17.6	4.1	13.3	174.3	34785	0.73
PMH 4	RDF	18.2	4.1	13.3	189.3	49852	1.03
	SSNM	18.9	4.2	14.0	198.3	49739	0.87
	FFP	17.0	4.0	12.7	176.0	41591	0.88
CM-08-292	RDF	18.7	4.2	14.0	221.7	57630	1.19
	SSNM	19.4	4.3	14.0	242.7	58003	1.01
	FFP	18.6	4.2	12.7	190.0	42563	0.90

Location mean	18.6	4.2	13.7	206.4	50660.6	1.00
C.D.(5%) AiBj-AiBk	1.1	0.3	1.7	34.9	16215.9	0.32
C.D.(5%) AiBk-AjBk	1.1	0.3	1.7	31.2	15887.5	0.31
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

PMH 1	19.1	4.3	14.0	223.9	57257	1.12
PMH 3	19.0	4.2	14.0	217.3	56609	1.11
HQPM 1	18.0	4.2	13.8	185.0	39645	0.79
PMH 4	18.1	4.1	13.3	187.9	47060	0.93
CM-08-292	18.9	4.2	13.6	218.1	52732	1.03

C.D. (5%) Ai-Aj	0.7	0.2	0.9	12.8	8810.7	0.17
C.V. (%) Error A	3.2	3.8	6.3	5.7	16.0	15.72
F (5%)	s	n.s.	n.s.	s	s	s

RDF	18.5	4.2	13.9	208.1	55199	1.14
SSNM	19.2	4.3	14.3	217.0	51789	0.90
FFP	18.1	4.1	13.1	194.3	44994	0.95

C.D. (5%) Bi-Bj	0.5	0.1	0.8	15.6	7252.0	0.14
C.V. (%) ErrorB	3.4	3.9	7.2	9.9	18.8	18.62
F (5%)	s	s	s	s	s	s

Table 42: Long - term trial on integrated nutrient management in maize wheat cropping system at Pantnagar.

Growth, yield and economics parameters

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs (000'/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
T1	3430	2790	4216	79.7	79.3	142.3	53.0	58.7
T2	5481	3940	6769	76.9	78.3	172.3	50.0	53.7
T3	5035	3879	6682	80.3	81.2	170.3	51.0	55.0
T4	3894	2774	4485	77.0	77.4	168.3	51.0	56.3
T5	5348	3844	6586	78.4	80.4	141.0	52.3	56.7
T6*	5183	3736	6415	78.8	81.6	139.7	52.7	57.3
T7	5660	3948	7154	76.0	77.8	181.7	51.3	54.7
T8	4640	3448	5500	78.7	79.7	168.3	50.7	55.7
T9	5146	3738	6403	75.3	76.7	171.7	50.3	54.0
T10	4387	3483	5413	79.8	80.4	145.0	53.7	60.0
Mean	4820.3	3558.0	5962.3	78.1	79.3	160.1	51.6	56.2
CD	212.5	181.0	270.1	9.9	8.9	8.4	2.3	2.2
CV (%)	2.6	3.0	2.6	7.4	6.6	3.1	2.6	2.3
Significance	S	S	S	N.S.	N.S.	S	S	S

T6*(Lobia) = 1162 (kg/ha)

Treatment	Days to maturity	100 grain weight (g)	Cob length (cm)	Cob girth (cm)	Gross return of maize `/ha	Net return of maize `/ha	B:C ratio of maize
T1	98.0	24.8	12.2	11.2	44934	29504	1.9
T2	95.0	31.2	14.1	12.8	71804	50839	2.4
T3	97.7	26.4	12.6	12.6	65961	46325	2.4
T4	99.3	25.7	13.0	11.7	51007	32699	1.8
T5	89.7	33.8	13.8	11.7	70059	47369	2.1
T6	93.0	29.1	15.1	11.8	115679	92333	4.0
T7	91.0	33.4	14.4	11.9	74141	49426	2.0
T8	92.0	31.3	12.9	12.4	60785	38726	1.8
T9	94.3	28.8	13.0	12.2	67410	45827	1.8
T10	97.0	28.0	12.9	11.4	57463	38543	2.0
Mean	94.7	29.3	13.4	12.0	67924.4	47159.2	2.2
CD	2.8	4.1	2.4	1.5	6031.7	6028.1	0.3
CV (%)	1.7	8.1	10.3	7.1	5.2	7.5	7.6
Significance	S	S	N.S.	N.S.	S	S	S

Contd.....

Nutrient uptake

Treatment	N uptake (kg/ha)		P uptake (kg/ha)		K uptake (kg/ha)		Zn uptake (kg/ha)		Total uptake (kg/ha)			
	Grain	Stover	Grain	Stover	Grain	Stover	Grain	Stover	N	P	K	Zn
T1	88.0	65.6	8.3	6.0	23.3	9.8	0.2	0.3	153.6	14.3	33.1	0.25
T2	126.2	108.8	13.3	9.7	42.0	26.8	0.4	0.4	234.9	23.0	68.8	0.37
T3	119.6	105.4	12.0	9.1	28.7	25.0	0.3	0.4	225.0	21.1	53.7	0.36
T4	112.6	97.8	9.5	6.5	24.0	16.3	0.2	0.3	210.4	16.0	40.3	0.26
T5	96.6	87.3	12.7	8.3	33.4	14.8	0.3	0.4	183.9	20.9	48.2	0.37
T6	119.2	110.7	12.4	9.4	41.3	18.8	0.3	0.4	229.9	21.8	60.1	0.36
T7	128.5	116.6	13.8	9.9	41.9	28.1	0.4	0.4	245.1	23.7	69.9	0.39
T8	122.3	113.8	11.2	7.5	28.7	18.4	0.4	0.4	236.1	18.7	47.1	0.36
T9	116.8	112.0	12.1	8.4	29.0	22.4	0.4	0.5	228.8	20.6	51.4	0.42
T10	94.3	82.2	10.8	8.7	32.1	15.9	0.3	0.4	176.6	19.5	48.0	0.35

Mean	112.4	100.0	11.6	8.4	32.5	19.6	0.3	0.4	212.4	19.9	52.1	0.35
CD	3.5	14.2	0.6	0.6	4.0	4.0	0.0	0.0	14.9	1.2	4.8	0.01
CV (%)	1.8	8.3	3.2	4.5	7.2	12.0	1.8	3.6	4.1	3.4	5.4	2.13
Significance	S	S	S	S	S	S	S	S	S	S	S	S

Soil parameter

Treatment	Soil moisture at maize harvest (%)	Bulk density at maize harvest (Mg/m ³)	Soil pH	Soil EC (dSm ⁻¹)	Soil Organic carbon (%)	Available N (kg/ha)	Available P (kg/ha)	Available K (kg/ha)	Available Zn mg/kg
T1	9.54	1.53	6.85	0.10	0.76	181.2	23.4	152.2	0.40
T2	9.64	1.57	6.82	0.09	0.91	193.4	26.6	160.3	0.49
T3	9.96	1.51	6.94	0.14	0.88	188.3	25.2	154.6	0.46
T4	9.31	1.58	6.93	0.11	0.83	185.6	23.3	146.8	0.46
T5	12.15	1.49	6.82	0.11	1.05	196.4	25.3	151.6	0.49
T6	10.45	1.51	6.80	0.12	1.04	195.5	24.8	141.6	0.47
T7	11.23	1.48	6.78	0.11	1.01	197.7	27.4	166.6	0.49
T8	9.41	1.52	6.86	0.12	0.99	187.9	26.5	161.4	0.47
T9	12.24	1.47	6.77	0.10	0.82	190.0	27.5	165.3	0.50
T10	9.33	1.51	6.81	0.12	0.87	186.7	25.9	153.4	0.49

Mean	10.33	1.52	6.84	0.11	0.92	190.3	25.6	155.4	0.47
CD	1.58	0.09	0.21	0.03	0.13	7.1	1.8	7.4	0.02
CV (%)	8.90	3.64	1.75	16.13	8.55	2.2	4.2	2.8	2.31
Significance	S	N.S.	N.S.	N.S.	S	S	S	S	S

Contd.....

Weed dynamics

Treatment	No. of narrow leaves weeds/m ²	No. of broad leaves weeds/m ²	No. of sedges/m ²	Weight narrow leaves weeds (g) /m ²	Weight of broad leaves weeds (g) /m ²	Weight of sedges (g) /m ²
T1	35.0	44.7	72.3	126.3	9.0	18.9
T2	37.3	18.0	30.7	265.0	4.0	5.0
T3	31.3	19.3	31.7	217.5	7.9	10.1
T4	33.7	43.7	27.7	147.8	7.4	7.1
T5	23.7	21.7	52.0	261.7	21.1	19.1
T6	18.7	23.7	25.7	87.6	12.1	5.5
T7	21.7	19.3	18.7	232.2	2.7	3.1
T8	23.0	19.7	18.3	187.5	11.5	2.1
T9	22.3	22.7	20.7	220.1	7.8	5.5
T10	24.7	17.3	31.3	187.9	13.8	7.7
Mean	27.1	25.0	32.9	193.4	9.7	8.4
CD	5.1	17.9	28.0	39.0	7.2	8.0
CV (%)	11.0	41.8	49.5	11.8	42.9	55.6
Significance	S	S	S	S	S	S

Treatments

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

Note: High gross return and B:C ratio in T6 is due to inclusion of return of cowpea grain yield

Maize seed price - ` 100/- kg
 Maize selling price - ` 1310/- per quintal
 Lobia selling price - ` 42/- kg
 Cowpea seed price - ` 75/- kg
 Maize variety- Rashi seeds 4212
 Cowpea variety – Pant Lobia -1 (grain)
 FYM - @ ` 75/- q
 Azotobactor - ` 20/- 200g

Table 43: Nutrient requirement of different maize genotype under maize-wheat cropping system at Pantnagar.

Nutrient level	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Cob length (cm)	Cob girth (cm)	100 grain weight (g)
100% RDF	PMH-1	6668	8532	5092	65.3	213.9	51.0	54.7	15.9	13.8	32.8
	PMH-3	6283	8007	3981	64.7	218.0	53.0	56.7	15.3	13.5	38.3
	HQPM-1	5428	6687	3868	64.2	217.8	51.7	56.0	14.9	13.1	36.8
	PMH-4	6837	9190	4642	62.9	207.2	49.7	52.7	15.8	14.0	38.1
	CMH-08-292	6691	9214	5489	59.6	225.6	51.3	55.0	15.8	13.8	37.1
SSNM based on nutrient expert	PMH-1	7157	9622	4972	65.1	219.0	53.0	56.0	16.7	13.6	37.1
	PMH-3	6473	9007	4419	65.1	217.1	54.0	58.3	16.4	14.1	36.8
	HQPM-1	6759	8762	4301	62.7	213.9	50.3	54.3	16.2	13.7	34.5
	PMH-4	7233	9505	5736	63.8	201.7	49.7	52.7	16.6	13.8	38.9
	CMH-08-292	6799	8966	5224	63.1	221.2	53.0	55.7	16.8	14.1	38.0
Farmers Practice	PMH-1	6284	8078	4114	64.4	217.2	53.0	56.7	15.8	13.6	36.7
	PMH-3	5841	7590	3559	63.8	210.9	53.7	57.7	15.2	13.3	36.0
	HQPM-1	5236	6663	3493	64.0	193.4	51.7	55.7	15.4	14.1	35.4
	PMH-4	6050	7948	4315	63.6	200.6	50.3	53.3	15.5	14.6	37.0
	CMH-08-292	5933	7814	4893	65.1	211.7	51.7	55.3	16.0	14.1	37.4

Location mean	6378.0	8372.3	4539.8	63.8	212.6	51.8	55.4	15.9	13.8	36.7
C.D.(5%) AiBj-AiBk	343.2	579.9	611.9	3.8	20.7	1.9	2.2	1.9	1.2	5.0
C.D.(5%) AiBk-AjBk	337.6	617.6	599.5	3.8	22.1	3.0	3.6	3.3	1.4	4.8
F(5%)	s	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100% RDF	6381	8326	4614	63.3	216.5	51.3	55.0	15.5	13.6	36.6
SSNM	6884	9172	4930	64.0	214.6	52.0	55.4	16.5	13.8	37.0
Farmer practices	5868	7618	4075	64.2	206.7	52.1	55.7	15.6	13.9	36.5

C.D. (5%) Ai-Aj	144.9	344.5	252.1	1.7	12.3	2.5	3.1	2.9	0.8	1.9
C.V. (%) Error A	2.2	4.1	5.5	2.6	5.7	4.8	5.5	18.1	6.0	5.2
F (5%)	s	s	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

PMH-1	6703	8744	4726	65.0	216.7	52.3	55.8	16.1	13.7	35.5
PMH-3	6199	8201	3986	64.5	215.3	53.6	57.6	15.7	13.6	37.0
HQPM-1	5807	7371	3887	63.6	208.3	51.2	55.3	15.5	13.6	35.5
PMH-4	6707	8881	4898	63.4	203.2	49.9	52.9	15.9	14.1	38.0
CMH-08-292	6475	8665	5202	62.6	219.5	52.0	55.3	16.2	14.0	37.5

C.D. (5%) Bi-Bj	198.1	334.8	353.3	2.2	12.0	1.1	1.3	1.1	0.7	2.9
C.V. (%) ErrorB	3.2	4.1	8.0	3.5	5.8	2.1	2.3	7.1	5.4	8.0
F (5%)	s	s	s	n.s.	n.s.	s	s	n.s.	n.s.	n.s.

****SSNM based on nutrient expert**

V1	PMH-1	140:37:71 kg/ha N:P:K
V2	PMH-3	140:37:71 kg/ha N:P:K
V3	HQPM-1	120:33:46 kg/ha N:P:K
V4	PMH-4	140:37:71 kg/ha N:P:K
V5	CMH-08-292	140:37:71 kg/ha N:P:K

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Nutrient level	Hybrids	At maize sowing 2014 kharif				At maize harvesting 2014 kharif			
		pH	EC (d Sm/m)	Org. C (%)	Bulk density (g/cm ³) at wheat harvest	pH	EC (d Sm/m)	Org. C (%)	Bulk density (g/cm ³) at wheat harvest
100% RDF	PMH-1	7.10	0.33	0.80	1.40	6.97	0.32	0.83	1.43
	PMH-3	7.07	0.31	0.77	1.36	7.07	0.30	0.76	1.42
	HQPM-1	7.10	0.31	0.82	1.39	7.13	0.32	0.84	1.44
	PMH-4	7.00	0.30	0.79	1.36	7.03	0.31	0.83	1.39
	CMH-08-292	7.03	0.30	0.78	1.40	7.00	0.29	0.81	1.40
SSNM based on nutrient expert	PMH-1	7.00	0.32	0.86	1.36	6.90	0.33	0.89	1.40
	PMH-3	7.13	0.33	0.84	1.34	7.10	0.33	0.86	1.43
	HQPM-1	7.20	0.33	0.79	1.33	7.20	0.33	0.81	1.46
	PMH-4	7.13	0.32	0.83	1.36	7.10	0.35	0.87	1.41
	CMH-08-292	7.17	0.34	0.83	1.42	7.10	0.35	0.87	1.45
Farmers Practice	PMH-1	7.10	0.34	0.84	1.36	7.07	0.34	0.83	1.42
	PMH-3	7.07	0.34	0.85	1.38	7.03	0.35	0.84	1.44
	HQPM-1	6.97	0.30	0.81	1.40	7.03	0.30	0.82	1.42
	PMH-4	7.13	0.32	0.77	1.36	7.17	0.33	0.82	1.39
	CMH-08-292	7.17	0.33	0.83	1.37	7.23	0.31	0.87	1.40

Location mean	7.09	0.32	0.81	1.37	7.08	0.32	0.84	1.42
C.D.(5%) AiBj-AiBk	0.17	0.03	0.07	0.06	0.17	0.04	0.06	0.04
C.D.(5%) AiBk-AjBk	0.17	0.03	0.07	0.05	0.18	0.04	0.06	0.04
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	s

100% RDF	7.06	0.31	0.79	1.38	7.04	0.31	0.81	1.42
SSNM	7.13	0.33	0.83	1.36	7.08	0.34	0.86	1.43
Farmer practices	7.09	0.33	0.82	1.38	7.11	0.33	0.84	1.41

C.D. (5%) Ai-Aj	0.09	0.02	0.02	0.01	0.09	0.02	0.03	0.02
C.V. (%) Error A	1.20	6.33	2.88	1.03	1.28	4.63	3.93	1.62
F (5%)	n.s.	n.s.	s	n.s.	n.s.	s	s	n.s.

PMH-1	7.07	0.33	0.83	1.37	6.98	0.33	0.85	1.42
PMH-3	7.09	0.33	0.82	1.36	7.07	0.33	0.82	1.43
HQPM-1	7.09	0.31	0.81	1.37	7.12	0.32	0.82	1.44
PMH-4	7.09	0.31	0.79	1.36	7.10	0.33	0.84	1.40
CMH-08-292	7.12	0.32	0.81	1.40	7.11	0.32	0.85	1.42

C.D. (5%) Bi-Bj	0.10	0.02	0.04	0.03	0.10	0.02	0.04	0.02
C.V. (%) ErrorB	1.43	5.75	5.26	2.45	1.47	7.24	4.37	1.52
F (5%)	n.s.	n.s.	n.s.	n.s.	s	n.s.	n.s.	s

Contd.....

Nutrient level	Hybrids	Gross return of maize (Rs./ha)	Net return of maize (Rs/ha)	B:C ratio of maize	Total N uptake maize (kg/ha)	Total P uptake maize (kg/ha)	Total K uptake maize (kg/ha)
100% RDF	PMH-1	87349	65634	3.0	206.2	32.9	49.5
	PMH-3	82311	60596	2.8	177.5	28.4	42.6
	HQPM-1	71109	49394	2.3	151.0	22.9	33.3
	PMH-4	89561	67846	3.1	207.0	32.1	49.2
	CMH-08-292	87658	65943	3.0	218.6	34.9	52.1
SSNM based on nutrient expert	PMH-1	93755	72159	3.3	223.6	40.4	44.0
	PMH-3	84793	63197	2.9	196.4	35.5	39.7
	HQPM-1	88537	68152	3.3	197.6	31.6	39.0
	PMH-4	94755	73159	3.4	239.9	42.4	52.2
	CMH-08-292	89072	67476	3.1	228.4	41.2	48.1
Farmers Practice	PMH-1	82315	61415	2.9	170.4	28.7	43.7
	PMH-3	76511	55611	2.7	151.7	26.0	38.2
	HQPM-1	68586	47686	2.3	135.8	22.6	32.4
	PMH-4	79258	58358	2.8	173.8	29.0	43.9
	CMH-08-292	77718	56818	2.7	180.8	31.0	47.7

Location mean	83552.4	62229.4	2.9	190.6	32.0	43.7
C.D.(5%) AiBj-AiBk	4495.4	4495.4	0.2	12.6	3.4	4.4
C.D.(5%) AiBk-AjBk	4422.7	4422.7	0.2	15.9	3.4	5.5
F(5%)	s	s	s	s	n.s.	s

100% RDF	83597	61882	2.9	192.1	30.2	45.3
SSNM	90182	68829	3.2	217.2	38.2	44.6
Farmer practices	76877	55977	2.7	162.5	27.5	41.2

C.D. (5%) Ai-Aj	1898.6	1898.6	0.1	11.5	1.6	3.9
C.V. (%) Error A	2.2	3.0	3.0	6.0	4.8	8.7
F (5%)	s	s	s	s	s	n.s.

PMH-1	87806	66402	3.1	200.1	34.0	45.7
PMH-3	81205	59801	2.8	175.2	30.0	40.2
HQPM-1	76077	55077	2.6	161.5	25.7	34.9
PMH-4	87858	66454	3.1	206.9	34.5	48.4
CMH-08-292	84816	63412	3.0	209.3	35.7	49.3

C.D. (5%) Bi-Bj	2595.4	2595.4	0.1	7.2	2.0	2.6
C.V. (%) ErrorB	3.2	4.3	4.3	3.9	6.3	6.0
F (5%)	s	s	s	s	s	s

Contd.....

Table 44: Nutrient requirement of maize genotypes under different cropping systems at Ranchi.

Hybrids	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
PMH-1	100% RDF	6369	10842	62.4	60.4	244.0	51.3	55.3
	SSNM	7138	11949	62.7	61.1	222.3	51.0	55.0
	50% RDF	4153	8529	63.1	61.8	219.5	52.0	56.0
PMH-3	100% RDF	7251	12136	62.7	61.3	220.0	50.7	54.7
	SSNM	7927	12644	62.9	61.6	236.3	49.3	52.3
	50% RDF	4347	8116	63.3	60.7	218.5	51.0	55.0
CMH-08-350	100% RDF	7809	12682	63.8	62.4	234.0	49.0	53.0
	SSNM	8896	14087	63.6	62.9	252.0	48.7	50.7
	50% RDF	4716	8433	63.8	60.4	225.3	49.7	53.7
CMH-08-287	100% RDF	7002	12196	64.0	62.7	251.2	50.7	53.7
	SSNM	7764	13207	62.9	60.9	258.8	50.3	54.0
	50% RDF	4029	7271	63.8	61.1	222.5	51.0	55.7
CMH-08-292	100% RDF	7233	12102	62.9	60.9	253.2	49.3	52.3
	SSNM	8524	13340	63.6	62.2	253.0	48.7	52.3
	50% RDF	4651	8576	63.8	61.1	238.0	50.7	54.7
Location mean		6520.6	11073.9	63.3	61.4	236.6	50.2	53.9
C.D.(5%) AiBj-AiBk		1025.2	1810.6	4.3	4.3	25.3	2.6	2.4
C.D.(5%) AiBk-AjBk		964.0	1602.6	5.0	5.0	25.1	3.1	3.0
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
PMH-1		5887	10440	62.7	61.1	228.6	51.4	55.4
PMH-3		6508	10965	63.0	61.2	224.9	50.3	54.0
CMH-08-350		7140	11734	63.7	61.9	237.1	49.1	52.4
CMH-08-287		6265	10891	63.6	61.6	244.2	50.7	54.4
CMH-08-292		6803	11339	63.4	61.4	248.1	49.6	53.1
C.D. (5%) Ai-Aj		479.9	621.3	3.6	3.6	14.3	2.3	2.2
C.V. (%) Error A		6.8	5.2	5.2	5.4	5.6	4.1	3.8
F (5%)		s	s	n.s.	n.s.	s	n.s.	n.s.
100% RDF		7133	11992	63.2	61.6	240.5	50.2	53.8
SSNM		8050	13045	63.1	61.7	244.5	49.6	52.9
50% RDF		4379	8185	63.6	61.0	224.8	50.9	55.0
C.D. (5%) Bi-Bj		458.5	809.7	1.9	1.9	11.3	1.1	1.1
C.V. (%) ErrorB		9.2	9.6	4.0	4.1	6.3	3.0	2.6
F (5%)		s	s	n.s.	n.s.	s	n.s.	s

Treatment details:**A. Main plot: Nutrient management (N+ P₂O₅+K₂O kg/ha) (3)**F₁ 100% RDF (150:60:40 kg NPK/ha)F₂ SSNM based on nutrient expert (170 :67:86 kg NPK/ha)F₃ Farmers fertilizer practice (100:50:0 NPK/ha)**B. Sub plot: Genotypes (5)**G₁ PMH-1 G₄ CMH-08-287 G₃ CMH-08-350G₂ PMH-3 G₅ CMH-08-292

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Hybrids	Nutrient management	No. of grains row/cob	No. of grains/cob	Cob length (cm)	Cob girth (cm)	No. of grains/row	1000 grain weight
PMH-1	100% RDF	13.9	476.3	19.2	14.8	37.5	321.8
	SSNM	14.1	508.6	19.2	14.8	40.1	333.5
	50% RDF	12.7	372.7	15.9	12.3	33.5	320.7
PMH-3	100% RDF	14.8	563.6	19.9	14.9	40.6	308.6
	SSNM	15.3	602.3	20.6	15.7	41.9	317.3
	50% RDF	12.9	403.2	17.5	13.5	35.7	305.9
CMH-08-350	100% RDF	14.7	568.8	20.2	15.1	41.3	347.2
	SSNM	15.4	588.7	20.9	15.6	42.9	360.3
	50% RDF	13.2	413.5	17.8	14.0	35.7	313.7
CMH-08-287	100% RDF	13.9	491.2	18.6	14.3	39.0	362.6
	SSNM	13.8	496.8	19.6	14.1	39.7	365.7
	50% RDF	12.2	344.3	16.4	12.7	32.8	323.8
CMH-08-292	100% RDF	14.7	517.1	19.5	15.2	40.3	338.3
	SSNM	15.3	596.6	20.3	15.3	42.0	370.5
	50% RDF	13.1	405.2	16.8	13.9	33.6	298.0

Location mean	14.0	489.9	18.8	14.4	38.4	332.5
C.D.(5%) AiBj-AiBk	1.1	67.5	1.7	1.4	3.1	28.2
C.D.(5%) AiBk-AjBk	1.1	67.4	1.6	1.2	3.1	30.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

PMH-1	13.6	452.5	18.1	13.9	37.0	325.3
PMH-3	14.3	523.0	19.3	14.7	39.4	310.6
CMH-08-350	14.4	523.7	19.6	14.9	39.9	340.4
CMH-08-287	13.3	444.1	18.2	13.7	37.2	350.7
CMH-08-292	14.4	506.3	18.9	14.8	38.6	335.6

C.D. (5%) Ai-Aj	0.6	38.9	0.6	0.4	1.7	19.9
C.V. (%) Error A	3.9	7.3	3.1	2.3	4.1	5.5
F (5%)	s	s	s	s	s	s

100% RDF	14.4	523.4	19.5	14.8	39.7	335.7
SSNM	14.8	558.6	20.1	15.1	41.3	349.4
50% RDF	12.8	387.8	16.9	13.3	34.3	312.4

C.D. (5%) Bi-Bj	0.5	30.2	0.8	0.6	1.4	12.6
C.V. (%) ErrorB	4.5	8.1	5.4	5.5	4.8	5.0
F (5%)	s	s	s	s	s	s

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Hybrids	Nutrient management	Net return (Rs/ha)	BC ratio	N uptake by maize (kg/ha)	P uptake by maize (kg/ha)	K uptake by maize (kg/ha)
PMH-1	100% RDF	52302	1.95	149.4	27.7	141.8
	SSNM	59713	2.07	167.6	30.3	159.0
	50% RDF	27833	1.14	102.1	18.6	105.5
PMH-3	100% RDF	63188	2.36	166.1	30.6	155.0
	SSNM	69431	2.40	179.5	32.3	165.4
	50% RDF	30066	1.23	101.3	18.4	99.7
CMH-08-350	100% RDF	70407	2.63	173.9	31.8	158.8
	SSNM	81454	2.82	197.5	35.3	180.1
	50% RDF	34341	1.41	106.6	19.1	101.7
CMH-08-287	100% RDF	60111	2.24	164.1	30.2	156.1
	SSNM	67477	2.34	182.0	32.7	172.2
	50% RDF	26181	1.07	93.8	17.0	91.0
CMH-08-292	100% RDF	63204	2.36	165.1	30.3	153.0
	SSNM	76830	2.66	191.3	34.3	173.7
	50% RDF	33671	1.38	107.9	19.4	104.7

Location mean	54413.9	2.00	149.9	27.2	141.2
C.D.(5%) AiBj-AiBk	12562.9	0.47	20.7	3.9	21.5
C.D.(5%) AiBk-AjBk	11801.5	0.44	19.4	3.6	20.3
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

PMH-1	46616	1.72	139.7	25.6	135.4
PMH-3	54228	2.00	149.0	27.1	140.0
CMH-08-350	62067	2.29	159.3	28.8	146.9
CMH-08-287	51256	1.88	146.7	26.6	139.8
CMH-08-292	57902	2.13	154.8	28.0	143.8

C.D. (5%) Ai-Aj	5857.0	0.21	9.7	1.7	10.1
C.V. (%) Error A	9.9	9.52	6.0	5.9	6.6
F (5%)	s	s	s	s	n.s.

100% RDF	61842	2.31	163.7	30.1	153.0
SSNM	70981	2.46	183.6	33.0	170.1
50% RDF	30418	1.25	102.3	18.5	100.5

C.D. (5%) Bi-Bj	5618.3	0.21	9.2	1.7	9.6
C.V. (%) ErrorB	13.6	13.80	8.1	8.4	8.9
F (5%)	s	s	s	s	s

Table 45: Nutrient management for maize genotypes under different cropping systems (SSNM) at Arbhavi.

Nutrient management	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	Fodder yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% flowering
100% RDF	PMH-1	9620	13368	9236	72.9	70.1	196.7	63.7
	PMH-3	7876	10764	7361	77.1	76.0	178.5	65.0
	HQPM-1	7249	10139	7083	80.2	71.5	159.9	65.3
	CMH-08-287	10304	14410	8264	77.4	73.6	189.3	65.7
	CMH-08-292	8602	11875	9236	77.4	71.9	195.4	63.7
SSNM	PMH-1	9941	13785	9375	81.9	80.2	190.4	63.3
	PMH-3	9429	12917	7708	81.6	78.8	183.3	65.7
	HQPM-1	8345	11910	8333	80.9	77.4	165.7	65.0
	CMH-08-287	10853	15208	8194	77.8	70.5	191.0	65.0
	CMH-08-292	9679	13264	9306	79.9	76.7	183.7	63.0
FFP	PMH-1	7275	10486	7500	76.7	74.3	173.7	63.7
	PMH-3	7920	10972	7014	78.8	77.1	171.5	65.7
	HQPM-1	6807	9826	7153	79.5	75.3	153.7	65.3
	CMH-08-287	9069	12847	8160	73.3	75.3	177.9	65.0
	CMH-08-292	7851	11007	8264	74.3	71.5	186.4	62.7
Location mean		8721.4	12185.2	8145.8	78.0	74.7	179.8	64.5
C.D.(5%) AiBj-AiBk		1152.9	1565.3	1426.5	5.9	7.6	12.4	1.9
C.D.(5%) AiBk-AjBk		1998.5	2540.1	2097.9	12.4	14.2	16.2	2.2
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
100% RDF		8730	12111	8236	77.0	72.6	184.0	64.7
SSNM		9649	13417	8583	80.4	76.7	182.8	64.4
FFP		7785	11028	7618	76.5	74.7	172.7	64.5
C.D. (5%) Ai-Aj		1734.4	2150.4	1693.8	11.3	12.6	12.1	1.5
C.V. (%) Error A		19.6	17.4	20.5	14.4	16.6	6.6	2.3
F (5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
PMH-1		8946	12546	8704	77.2	74.9	187.0	63.6
PMH-3		8408	11551	7361	79.2	77.3	177.8	65.4
HQPM-1		7467	10625	7523	80.2	74.8	159.8	65.2
CMH-08-287		10075	14155	8206	76.2	73.1	186.1	65.2
CMH-08-292		8711	12049	8935	77.2	73.4	188.5	63.1
C.D. (5%) Bi-Bj		665.6	903.7	823.6	3.4	4.4	7.2	1.1
C.V. (%) ErrorB		7.8	7.6	10.4	4.5	6.1	4.1	1.7
F (5%)		s	s	s	n.s.	n.s.	s	s

Treatment details:**A. Main-plot: Nutrient management (N+ P₂O₅+K₂O kg/ha) (3)**

F ₁	100% RDF (150:75:37.5)
F ₂	SSNM based on nutrient expert (150:64:113)
F ₃	Farmer's fertilizer practice (80:57:37.5)

B. Sub Plots (5 Genotypes)

	Target yield	Nutrient expert dosage (kg NPK/ha)
G ₁ PMH-1	9.5	150:64:113
G ₂ PMH-3	9.0	140:61:105
G ₃ HQPM-1	8.0	140:47:71
G ₄ CMH-08-287	11.0	150:64:113
G ₅ CMH-08-292	10.0	150:64:113

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Nutrient management	Hybrids	Days to 50% silking	Cob length (cm)	Cob girth (cm)	Grains/row	Grain rows/cob	Net profit (Rs/ha)	BC ratio
100% RDF	PMH-1	65.3	17.0	4.7	34.7	13.7	66054	3.19
	PMH-3	68.3	18.4	4.6	39.5	14.7	48609	2.61
	HQPM-1	68.7	15.4	4.5	31.6	14.3	42344	2.40
	CMH-08-287	66.7	17.1	4.7	35.0	13.7	72889	3.42
	CMH-08-292	64.3	17.2	4.7	34.3	13.3	55868	2.85
SSNM	PMH-1	65.3	17.4	4.8	35.1	13.6	67751	3.14
	PMH-3	68.7	17.6	4.6	38.9	14.1	62630	2.98
	HQPM-1	67.7	15.9	4.5	34.2	13.7	51790	2.64
	CMH-08-287	66.0	18.0	4.8	37.1	13.6	76866	3.43
	CMH-08-292	63.7	16.9	4.8	34.3	13.9	65126	3.06
FFP	PMH-1	65.7	15.0	4.7	29.6	13.6	44455	2.57
	PMH-3	68.7	17.0	4.5	38.3	13.6	50901	2.80
	HQPM-1	69.3	13.5	4.5	29.6	13.9	39770	2.41
	CMH-08-287	65.7	16.7	4.8	34.5	13.6	62393	3.20
	CMH-08-292	64.0	16.2	4.6	32.6	13.7	50214	2.77

Location mean	66.5	16.6	4.7	34.6	13.8	57177.3	2.90
C.D.(5%) AiBj-AiBk	2.4	1.5	0.2	4.4	1.0	11528.9	0.38
C.D.(5%) AiBk-AjBk	2.6	1.6	0.2	4.2	1.2	19985.3	0.67
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100% RDF	66.7	17.0	4.7	35.0	13.9	57153	2.90
SSNM	66.3	17.1	4.7	35.9	13.8	64833	3.05
FFP	66.7	15.7	4.6	32.9	13.7	49546	2.75

C.D. (5%) Ai-Aj	1.6	0.9	0.1	1.6	0.7	17343.6	0.58
C.V. (%) Error A	2.3	5.2	2.7	4.6	5.1	29.9	19.67
F (5%)	n.s.	s	n.s.	s	n.s.	n.s.	n.s.

PMH-1	65.4	16.5	4.8	33.2	13.6	59420	2.97
PMH-3	68.6	17.7	4.6	38.9	14.1	54046	2.80
HQPM-1	68.6	14.9	4.5	31.8	14.0	44635	2.48
CMH-08-287	66.1	17.3	4.8	35.6	13.6	70716	3.35
CMH-08-292	64.0	16.8	4.7	33.8	13.6	57070	2.89

C.D. (5%) Bi-Bj	1.4	0.9	0.1	2.5	0.6	6656.2	0.22
C.V. (%) ErrorB	2.1	5.5	2.5	7.5	4.5	12.0	7.85
F (5%)	s	s	s	s	n.s.	s	s

Table 46: Nutrient management in rice-maize cropping systems tillage practices at Hyderabad.

Nutrient management	Hybrids	Grain yield (kg/ha)	Strew yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% silking	Days to maturity
100% RDF	DHM 117	7409	7780	60.2	65.2	229.3	66.0	94.3
	HQPM 1	6282	6723	57.9	57.5	213.3	64.0	91.0
	PMH 1	7753	8417	67.8	66.0	239.0	64.3	97.0
	PMH 3	7131	7773	58.3	61.0	248.0	67.7	97.3
	CMH 08-292	7902	7993	52.2	59.8	236.0	64.0	95.0
SSNM	DHM 117	7280	7443	55.8	63.4	221.3	65.7	93.7
	HQPM 1	6220	6583	54.9	54.2	219.6	63.3	88.7
	PMH 1	7430	8025	59.9	63.2	248.0	63.3	94.3
	PMH 3	6860	7493	54.6	59.5	246.7	65.3	93.0
	CMH 08-292	7650	7707	51.2	57.5	244.0	63.3	92.3
Farmers practice	DHM 117	7630	7799	61.3	65.2	229.7	67.7	94.7
	HQPM 1	6517	6710	57.2	59.5	214.3	65.3	91.7
	PMH 1	7707	8113	62.5	65.9	241.7	65.7	97.3
	PMH 3	7013	7897	53.5	62.2	243.3	68.3	97.0
	CMH 08-292	7653	8180	53.1	60.6	241.3	65.0	96.3
Location mean		7229.1	7642.5	57.4	61.4	234.4	65.3	94.2
C.D.(5%) AiBj-AiBk		424.8	602.7	5.2	3.0	10.1	0.9	1.7
C.D.(5%) AiBk-AjBk		410.3	585.0	6.3	2.8	12.1	1.0	1.8
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
100% RDF		7295	7737	59.3	61.9	233.1	65.2	94.9
SSNM		7088	7450	55.3	59.6	235.9	64.2	92.4
Farmer practices		7304	7740	57.5	62.7	234.1	66.4	95.4
C.D. (5%) Ai-Aj		159.7	234.1	4.4	0.8	8.2	0.6	1.0
C.V. (%) Error A		2.2	3.0	7.5	1.3	3.4	1.0	1.0
F (5%)		s	s	n.s.	s	n.s.	s	s
DHM 117		7440	7674	59.1	64.6	226.8	66.4	94.2
HQPM 1		6339	6672	56.6	57.1	215.7	64.2	90.4
PMH 1		7630	8185	63.4	65.0	242.9	64.4	96.2
PMH 3		7001	7721	55.5	60.9	246.0	67.1	95.8
CMH 08-292		7735	7960	52.1	59.3	240.4	64.1	94.6
C.D. (5%) Bi-Bj		245.3	348.0	3.0	1.7	5.8	0.5	1.0
C.V. (%) ErrorB		3.5	4.7	5.4	2.9	2.6	0.8	1.1
F (5%)		s	s	s	s	s	s	s

Treatment details:**A. Main plot: Nutrient management**(N:P₂O₅:K₂O kg/ha) (3)

F ₁	100%RDF (200:60:50)
F ₂	SSNM (Based on nutrient expert)
F ₃	Farmers practice (215:90:50)

B. Sub plot:

Maize Hybrids (5)

Target yield

SSNM dose

Maize Hybrids (5)	Target yield (t/ha)	SSNM dose (kg N-P ₂ O ₅ -K ₂ O /ha)
H ₁ DHM-117	10	150:69:98
H ₂ HQPM-1	8	140:47:56
H ₃ PMH-1	8.5	140:47:56
H ₄ PMH-3	9	140:61:90
H ₅ CMH-08-292	9	140:61:90

Cont....

Nutrient management	Hybrids	Net returns (Rs/ha)	BC Ratio	Cob length (cm)	Cob girth (cm)	No. of seed/row	Test weight (1000 seed)
100% RDF	DHM 117	40538	1.7	17.8	15.9	39.3	414.3
	HQPM 1	26352	1.5	16.7	14.2	34.5	357.0
	PMH 1	45279	1.8	18.0	15.1	39.2	387.7
	PMH 3	37272	1.7	20.0	14.9	40.7	446.7
	CMH 08-292	46657	1.9	18.1	15.6	39.2	413.3
SSNM	DHM 117	37583	1.7	17.1	16.2	36.4	377.3
	HQPM 1	26649	1.5	16.1	14.6	34.7	346.7
	PMH 1	42348	1.8	17.9	14.7	38.7	360.3
	PMH 3	33450	1.6	18.9	14.5	38.8	396.0
	CMH 08-292	42967	1.8	17.5	15.4	37.9	393.3
Farmers practice	DHM 117	41716	1.7	17.7	16.0	38.3	405.7
	HQPM 1	27546	1.5	16.5	14.7	35.4	368.0
	PMH 1	44459	1.8	17.8	15.3	40.2	394.3
	PMH 3	34568	1.6	19.2	15.2	41.4	418.3
	CMH 08-292	42372	1.8	17.9	15.8	39.5	403.3

Location mean	37983.7	1.7	17.8	15.2	38.3	392.2
C.D.(5%) AiBj-AiBk	5689.4	0.1	0.8	0.6	2.3	11.5
C.D.(5%) AiBk-AjBk	5379.1	0.1	0.7	0.6	2.4	15.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s

100% RDF	39220	1.7	18.1	15.1	38.6	403.8
SSNM	36599	1.7	17.5	15.1	37.3	374.7
Farmer practices	38132	1.7	17.8	15.4	39.0	397.9

C.D. (5%) Ai-Aj	1799.7	0.0	0.1	0.2	1.4	11.7
C.V. (%) Error A	4.7	1.9	0.8	1.3	3.5	3.0
F (5%)	s	s	s	s	n.s.	s

DHM 117	39946	1.7	17.5	16.0	38.0	399.1
HQPM 1	26849	1.5	16.4	14.5	34.9	357.2
PMH 1	44028	1.8	17.9	15.0	39.4	380.8
PMH 3	35097	1.6	19.4	14.8	40.3	420.3
CMH 08-292	43999	1.8	17.9	15.6	38.9	403.3

C.D. (5%) Bi-Bj	3284.8	0.1	0.5	0.4	1.3	6.6
C.V. (%) ErrorB	8.9	3.6	2.7	2.5	3.5	1.7
F (5%)	s	s	s	s	s	s

Table 47: Nutrient management for maize hybrids under site specific nutrient management based approach at Karimnagar.

Hybrids	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Plant height (cm)	Days to 50% silking	Cob length (cm)	Cob girth (cm)
PMH 3	FFP	8348	10119	250.2	60.0	20.0	15.5
	RDF	8893	10734	260.7	60.0	21.5	16.8
	SSNM	9385	11160	248.0	59.3	20.9	16.2
PMH 1	FFP	8738	9028	243.0	60.0	16.9	15.1
	RDF	9305	10387	252.2	58.7	19.4	15.2
	SSNM	8738	9723	248.0	58.7	18.9	15.7
HQPM-1	FFP	7024	8505	223.3	59.7	17.6	14.9
	RDF	6991	8831	229.2	60.3	18.0	15.0
	SSNM	7325	7930	225.5	59.3	17.5	15.0
DHM 117	FFP	8715	10543	249.8	60.7	18.9	17.5
	RDF	9212	11679	244.7	60.7	20.2	17.7
	SSNM	9740	12188	255.5	60.0	20.8	17.6
CMH-08-292	FFP	8208	10921	250.7	59.3	18.5	15.4
	RDF	8691	10750	255.3	59.3	17.6	15.2
	SSNM	8557	10722	256.5	59.3	19.2	15.9
Location mean		8524.8	10214.8	246.2	59.7	19.1	15.9
C.D.(5%) AiBj-AiBk		1672.0	1201.1	13.7	1.1	1.9	1.3
C.D.(5%) AiBk-AjBk		1563.0	1204.2	16.4	1.3	1.9	1.2
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
PMH 3		8875	10671	252.9	59.8	20.8	16.2
PMH 1		8927	9713	247.7	59.1	18.4	15.3
HQPM 1		7114	8422	226.0	59.8	17.7	15.0
DHM 117		9222	11470	250.0	60.4	20.0	17.6
CMH-08-292		8485	10798	254.2	59.3	18.4	15.5
C.D. (5%) Ai-Aj		763.8	701.1	12.0	0.9	1.0	0.6
C.V. (%) Error A		8.2	6.3	4.5	1.4	5.0	3.3
F (5%)		s	s	s	n.s.	s	s
FFP		8207	9823	243.4	59.9	18.4	15.7
RDF		8618	10476	248.4	59.8	19.3	16.0
SSNM		8749	10345	246.7	59.3	19.5	16.1
C.D. (5%) Bi-Bj		747.8	537.2	6.1	0.5	0.9	0.6
C.V. (%) ErrorB		11.5	6.9	3.3	1.1	5.9	4.8
F (5%)		n.s.	s	n.s.	s	s	n.s.

Treatment details:**A. Main plot: Hybrids (5)**

H ₁	PMH-3	190:84:143
H ₂	PMH-1	190:84:143
H ₃	HQPM-1	170:67:86
H ₄	DHM-117	190:84:143
H ₅	CMH-08-292	190:84:143

****SSNM dose (kg N:P₂O₅:K₂O /ha)****B. Sub Plots: Nutrient management (kg N:P₂O₅:K₂O/ha) (3)**

F ₁	Farmers Practice: 253:58:75
F ₂	RDF: 200:60:50
F ₃	**SSNM by nutrient expert software

Cont....

Hybrids	Nutrient management	No. of kernel rows	No. of kernels / row of cob	1000-grain weight (g)	Net returns (Rs./ha)	B:C Ratio
PMH 3	FFP	13.9	40.6	322.0	66375	2.54
	RDF	14.3	41.3	332.7	74812	2.79
	SSNM	13.6	41.5	360.0	79644	2.84
PMH 1	FFP	14.0	32.9	358.0	71484	2.66
	RDF	13.6	34.2	376.0	80210	2.92
	SSNM	14.1	32.3	351.3	71177	2.64
HQPM-1	FFP	14.1	34.9	330.0	49031	2.14
	RDF	14.1	35.5	316.0	49900	2.20
	SSNM	14.0	34.5	322.0	53539	2.26
DHM 117	FFP	14.8	35.8	346.0	71179	2.66
	RDF	15.5	37.1	357.3	78996	2.90
	SSNM	15.1	37.2	362.7	84299	2.95
CMH-08-292	FFP	14.4	34.5	349.3	64541	2.50
	RDF	13.6	33.8	360.7	72162	2.73
	SSNM	13.7	32.4	354.7	68806	2.59

Location mean	14.2	35.9	346.6	69077.0	2.62
C.D.(5%) AiBj-AiBk	1.0	4.5	22.0	21903.8	0.51
C.D.(5%) AiBk-AjBk	1.0	4.1	27.3	20475.6	0.48
F(5%)	n.s.	n.s.	s	n.s.	n.s.

PMH 3	13.9	41.1	338.2	73611	2.73
PMH 1	13.9	33.2	361.8	74290	2.74
HQPM 1	14.1	35.0	322.7	50823	2.20
DHM 117	15.1	36.7	355.3	78158	2.83
CMH-08-292	13.9	33.6	354.9	68503	2.61

C.D. (5%) Ai-Aj	0.5	2.0	20.6	10006.2	0.24
C.V. (%) Error A	3.2	5.1	5.5	13.3	8.28
F (5%)	s	s	s	s	s

FFP	14.2	35.8	341.1	64522	2.50
RDF	14.2	36.4	348.5	71216	2.71
SSNM	14.1	35.6	350.1	71493	2.66

C.D. (5%) Bi-Bj	0.5	2.0	9.9	9795.7	0.23
C.V. (%) ErrorB	4.2	7.3	3.7	18.6	11.52
F (5%)	n.s.	n.s.	n.s.	n.s.	n.s.

Table 48: Nutrient management of maize genotypes under Maize mustard cropping system at Ambikapur.

Hybrids	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% silking	Cob girth (cm)	Cob length (cm)
PMH 1	100% RDF	7378	12618	62.7	61.1	231.7	54.7	15.0	19.2
	SSNM	7711	13090	63.3	61.8	236.8	57.3	15.5	19.9
	FFP	6333	12919	62.7	61.3	221.5	55.3	13.8	18.6
PMH 3	100% RDF	7311	12363	63.6	61.8	236.1	55.7	15.1	19.5
	SSNM	8244	13181	63.6	62.2	237.1	55.0	15.6	20.2
	FFP	6622	12415	62.7	60.4	223.8	56.3	13.9	18.9
HQPM 1	100% RDF	6244	10155	63.6	61.8	203.2	57.7	14.8	18.8
	SSNM	7378	11677	62.9	61.3	208.9	58.3	15.2	19.6
	FFP	5467	10050	62.7	60.7	199.9	56.7	13.5	17.9
CMH-08-350	100% RDF	6089	10570	63.3	60.7	219.3	56.7	14.2	18.5
	SSNM	6622	11250	63.3	61.6	225.6	56.7	14.0	18.5
	FFP	5556	9972	64.0	62.0	208.4	54.0	12.2	17.0
CMH-08-292	100% RDF	6333	10582	62.7	61.1	217.1	56.3	14.7	17.9
	SSNM	6844	10760	62.4	60.9	220.5	56.3	14.7	18.9
	FFP	5711	10700	62.0	59.8	207.5	56.0	12.6	17.5
Location mean		6656.3	11487.0	63.0	61.2	219.8	56.2	14.3	18.7
C.D.(5%) AiBj-AiBk		975.4	2788.7	3.7	4.0	16.6	2.5	1.2	1.7
C.D.(5%) AiBk-AjBk		1301.4	3230.1	3.9	4.2	21.4	2.7	1.2	1.6
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
PMH 1		7141	12876	62.9	61.4	230.0	55.8	14.8	19.2
PMH 3		7393	12653	63.3	61.5	232.3	55.7	14.9	19.5
HQPM 1		6363	10627	63.0	61.3	204.0	57.6	14.5	18.8
CMH-08-350		6089	10598	63.6	61.4	217.8	55.8	13.5	18.0
CMH-08-292		6296	10681	62.4	60.6	215.0	56.2	14.0	18.1
C.D. (5%) Ai-Aj		1031.3	2296.8	2.5	2.6	16.6	1.8	0.7	0.6
C.V. (%) Error A		14.3	18.4	3.7	4.0	6.9	2.9	4.4	3.1
F (5%)		n.s.	n.s.	n.s.	n.s.	s	n.s.	s	s
100% RDF		6671	11258	63.2	61.3	221.5	56.2	14.7	18.8
SSNM		7360	11992	63.1	61.6	225.8	56.7	15.0	19.4
FFP		5938	11211	62.8	60.8	212.2	55.7	13.2	18.0
C.D. (5%) Bi-Bj		436.2	1247.2	1.6	1.8	7.4	1.1	0.5	0.8
C.V. (%) ErrorB		8.6	14.3	3.4	3.9	4.4	2.6	5.0	5.5
F (5%)		s	n.s.	n.s.	n.s.	s	n.s.	s	s

Treatment details:**A. Main plot: Maize hybrids (5)**H₁ PMH 1H₂ PMH 3H₃ HQPM 1H₄ CMH-08-350H₅ CMH-08-292**B. Sub plot: Nutrient management (kg N:P₂O₅:K₂O/ha) (3)**F₁ 100% of RDF (150:60:40)F₂ SSNM (170:67:86)F₃ Farmer's practices (120:60:40)

Cont....

Table 49: Nutrient management for maize genotypes under maize-wheat cropping system at Banswara.

Nutrient management	Hybrid	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)
100% RDF	PMH 1	4611	5250	61.7	48.1	215.0
	PMH 3	5139	6611	63.3	60.0	220.0
	HQPM 1	4444	5417	62.2	50.8	181.7
	CMH-08-350	5028	6972	62.5	63.3	208.3
	CMH-08-292	5417	6028	63.1	55.3	221.7
SSNM	PMH 1	5333	6083	62.2	56.1	219.3
	PMH 3	6625	8361	65.0	61.7	225.0
	HQPM 1	4806	5889	65.0	52.2	195.0
	CMH-08-350	6472	8861	64.2	67.2	216.7
	CMH-08-292	6861	8333	65.0	64.2	228.3
FFP	PMH 1	3972	4417	61.1	40.3	206.0
	PMH 3	4139	5361	62.5	48.1	209.3
	HQPM 1	3417	4278	60.6	38.3	175.0
	CMH-08-350	4361	5833	63.1	48.3	199.3
	CMH-08-292	4611	5583	62.5	48.9	213.3
Location mean		5015.7	6218.5	62.9	53.5	208.9
C.D.(5%) AiBj-AiBk		749.1	885.1	3.0	5.9	10.9
C.D.(5%) AiBk-AjBk		695.9	839.7	3.6	5.4	10.8
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.
100% RDF		4928	6056	62.6	55.5	209.3
SSNM		6019	7506	64.3	60.3	216.9
FFP		4100	5094	61.9	44.8	200.6
C.D. (5%) Ai-Aj		194.3	288.8	2.4	1.2	4.9
C.V. (%) Error A		3.8	4.6	3.7	2.3	2.3
F (5%)		s	s	n.s.	s	s
PMH 1		4639	5250	61.7	48.1	213.4
PMH 3		5301	6778	63.6	56.6	218.1
HQPM 1		4222	5194	62.6	47.1	183.9
CMH-08-350		5287	7222	63.2	59.6	208.1
CMH-08-292		5630	6648	63.5	56.1	221.1
C.D. (5%) Bi-Bj		432.5	511.0	1.8	3.4	6.3
C.V. (%) ErrorB		8.9	8.4	2.9	6.5	3.1
F (5%)		s	s	n.s.	s	s

Treatment details:**A. Main plot: Nutrient level**(kg N:P₂O₅:K₂O/ha) (3)

F ₁	100% of RDF (120:60:40)
F ₂	SSNM based on nutrient expert
F ₃	Farmer's fertilizer practices (87:46 kg NP/ha)

B. Sub plot:

Maize Hybrids (5)

V ₁	PMH 1
V ₂	PMH 3
V ₃	HQPM 1
V ₄	CMH-08-350
V ₅	CMH-08-292

Target yield (t/ha)

6.0

6.0

5.0

7.0

7.0

SSNM dose

(kg N:P₂O₅:K₂O/ha)

140:40:46

140:40:46

130:37:41

160:44:51

160:44:51

Table 50: Nutrient requirement (Site-Specific nutrient management) of maize genotypes under different cropping systems at Chhindwara.

Nutrient management	Hybrids	Grain yield (kg/ha)	Straw yield (kg/ha)	Plants (000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% silking	Days to 50% brown Husk	No. of Bare ness	Net returns (Rs/ha)	BC Ratio
50% RDF	PMH-1	4004	7485	70.0	65.9	165.3	64.0	102.0	3.7	27736	2.37
	PMH-3	4789	8956	71.9	68.1	162.7	64.0	102.3	4.3	37157	2.83
	HQPM-1	4170	7807	71.1	71.1	175.0	63.0	72.0	1.3	29780	2.47
	CMH-08-350	3367	6296	67.4	63.0	163.7	62.7	101.7	4.0	20092	1.99
	CMH-08-292	4078	7626	70.4	67.0	168.0	63.7	102.0	3.0	28625	2.41
100% RDF	PMH-1	5196	9715	70.7	68.5	171.0	63.7	102.0	2.0	39670	2.75
	PMH-3	6200	11596	69.3	65.6	170.7	63.7	102.3	3.3	51713	3.28
	HQPM-1	4422	8267	71.1	69.3	167.7	64.0	102.0	1.7	30382	2.34
	CMH-08-350	4267	7978	68.9	65.9	170.3	62.3	101.3	2.7	28516	2.26
	CMH-08-292	5356	10015	71.1	68.5	177.0	63.3	101.3	2.3	41581	2.83
SSNM	PMH-1	6204	11600	72.2	70.7	178.3	63.0	100.7	1.3	51326	3.22
	PMH-3	6448	12059	73.3	71.9	180.3	63.0	99.7	1.3	54259	3.35
	HQPM-1	5363	10030	74.1	73.0	179.7	63.7	100.7	1.0	41239	2.79
	CMH-08-350	4574	8552	73.0	71.5	175.3	62.0	101.0	1.3	31773	2.37
	CMH-08-292	6352	11878	71.9	70.7	185.7	62.0	99.7	1.0	53104	3.30

Location mean	4985.9	9324.0	71.1	68.7	172.7	63.2	99.4	2.3	37796.9	2.70
C.D.(5%) AiBj-AiBk	531.7	993.8	3.6	3.3	12.1	1.6	22.0	2.9	6377.9	0.29
C.D.(5%) AiBk-AjBk	520.5	972.9	4.5	4.4	11.9	1.8	23.9	3.1	6244.2	0.29
F(5%)	s	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	s	s

60:30:20	4081	7634	70.1	67.0	166.9	63.5	96.0	3.3	28678	2.41
120:60:40	5088	9514	70.2	67.6	171.3	63.4	101.8	2.4	38372	2.69
140:34:71	5788	10824	72.9	71.6	179.9	62.7	100.3	1.2	46340	3.01

C.D. (5%) Ai-Aj	217.9	407.6	3.3	3.2	5.3	1.0	14.0	1.8	2617.7	0.13
C.V. (%) Error A	4.3	4.3	4.6	4.7	3.0	1.6	13.9	78.0	6.8	4.70
F (5%)	s	s	n.s.	s	s	n.s.	n.s.	n.s.	s	s

PMH-1	5135	9600	71.0	68.4	171.6	63.6	101.6	2.3	39577	2.78
PMH-3	5812	10870	71.5	68.5	171.2	63.6	101.4	3.0	47710	3.15
HQPM-1	4652	8701	72.1	71.1	174.1	63.6	91.6	1.3	33800	2.53
CMH-08-350	4069	7609	69.8	66.8	169.8	62.3	101.3	2.7	26794	2.21
CMH-08-292	5262	9840	71.1	68.8	176.9	63.0	101.0	2.1	41103	2.85

C.D. (5%) Bi-Bj	307.0	573.8	2.1	1.9	7.0	0.9	12.7	1.7	3682.3	0.17
C.V. (%) ErrorB	6.3	6.3	3.0	2.9	4.1	1.5	13.1	74.3	10.0	6.42
F (5%)	s	s	n.s.	s	n.s.	s	n.s.	n.s.	s	s

Treatment details:

A. Main plot: Nutrient management (N+ P₂O₅+K₂O kg/ha) (3)

- F₁ 50% RDF (60:30:20)
 F₂ 100% RDF (120:60:40)
 F₃ SSNM (140:34:71)

B. Sub plots: Maize hybrids (5)

- G₁ PMH-1 G₄ CMH-08-350
 G₂ PMH-3 G₅ CMH-08-292
 G₃ HQPM-1

Table 51: SSNM based nutrient requirement of different maize genotypes Jhabua.

Nutrient management	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
50% RDF	PHM-1	4098	5019	64.8	66.9	161.7	51.7	54.0
	PHM-3	4593	5608	65.3	66.7	165.3	52.7	56.3
	HQPM-1	3661	4624	66.7	66.4	145.3	51.7	54.0
	CMH-08-292	4783	5915	64.6	64.3	185.7	51.0	52.7
	CMH-08-350	4586	5619	64.3	64.0	188.3	51.7	53.3
SSNM	PHM-1	5108	6402	65.6	67.7	182.3	52.3	55.0
	PHM-3	5784	6958	65.1	69.8	186.7	53.0	56.3
	HQPM-1	4585	5754	65.3	70.1	155.0	52.3	54.3
	CMH-08-292	5860	7233	66.9	70.4	196.3	51.3	53.0
	CMH-08-350	5362	6616	64.6	68.8	198.0	51.3	53.3
100% RDF	PHM-1	4688	5794	66.4	69.0	175.7	52.0	54.3
	PHM-3	5270	6418	65.9	69.6	181.0	52.3	55.7
	HQPM-1	4397	5484	67.7	69.3	160.7	52.3	54.7
	CMH-08-292	5630	6929	67.5	69.6	190.0	51.0	52.7
	CMH-08-350	5238	6460	66.4	67.7	195.7	51.7	53.3
Location mean		4909.5	6055.6	65.8	68.0	177.8	51.9	54.2
C.D.(5%) AiBj-AiBk		361.1	465.0	3.2	3.5	13.4	1.1	1.2
C.D.(5%) AiBk-AjBk		416.5	569.3	3.3	3.6	13.1	1.1	1.2
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
RDF 50%		4344.2	5357.1	65.1	65.7	169.3	51.7	54.1
SSNM		5339.9	6592.6	65.5	69.4	183.7	52.1	54.4
RDF 100%		5044.4	6216.9	66.8	69.0	180.6	51.9	54.1
C.D. (5%) Ai-Aj		269.5	397.5	1.5	1.8	5.3	0.4	0.5
C.V. (%) Error A		5.4	6.5	2.3	2.7	2.9	0.7	1.0
F (5%)		s	s	n.s.	s	s	n.s.	n.s.
PHM-1		4631.4	5738.1	65.6	67.9	173.2	52.0	54.4
PHM-3		5215.6	6328.0	65.4	68.7	177.7	52.7	56.1
HQPM-1		4214.3	5287.5	66.6	68.6	153.7	52.1	54.3
CMH-08-292		5424.2	6692.2	66.3	68.1	190.7	51.1	52.8
CMH-08-350		5062.2	6231.9	65.1	66.8	194.0	51.6	53.3
C.D. (5%) Bi-Bj		208.5	268.5	1.9	2.0	7.8	0.7	0.7
C.V. (%) ErrorB		4.4	4.6	2.9	3.1	4.5	1.3	1.3
F (5%)		s	s	n.s.	n.s.	s	s	s

Treatment details:**A. Main plot: Nutrient management (N+ P₂O₅+K₂O kg/ha) (3)**F₁ 50% RDF (60:30:20)F₂ SSNM based on nutrient expert (140:60:60)F₃ 100% RDF (120:60:40)**B. Sub plot: Hybrids (5)**G₁ PHM-1 G₄ CMH-08-292G₂ PHM-3 G₅ CMH-08-350G₃ HQPM-1

Table 52: Nutrient management for different maize genotype under different cropping systems at Udaipur.

Hybrids	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Shelling (%)	Days to 50% tasseling	Days to 50% silking	Plant height (cm)	Net returns (Rs/ha)	BC ratio
PHM-1	RDF	4243	6559	59.6	56.9	79.4	50.0	55.0	270.1	26486	1.2
	SSNM	4653	7253	59.6	56.7	80.3	50.0	55.0	271.3	31132	1.4
	FFP	2837	4440	58.7	56.0	78.3	50.0	55.3	265.2	10263	0.5
PHM-3	RDF	5343	8328	58.2	53.3	83.3	51.0	56.0	265.3	39255	1.7
	SSNM	5743	8975	59.1	54.0	85.1	51.0	56.3	266.1	43754	1.9
	FFP	4043	6340	58.0	52.9	82.4	51.3	56.0	260.3	24229	1.1
HQPM-1	RDF	3053	4429	59.1	56.0	83.4	49.0	54.0	236.4	12455	0.6
	SSNM	3443	4988	59.1	57.1	85.3	49.0	54.0	238.3	16766	0.7
	FFP	2357	3370	58.4	56.2	82.5	50.0	54.0	240.3	4393	0.2
CMH-08-350	RDF	4723	7350	53.3	52.0	82.5	49.0	55.0	274.1	32076	1.4
	SSNM	5203	8176	54.0	51.6	85.4	49.3	55.0	274.2	37555	1.7
	FFP	3793	5407	54.0	52.7	81.4	49.0	55.0	267.7	20796	0.9
CMH-08-292	RDF	6033	9420	56.9	56.4	83.8	48.0	55.0	273.3	47246	2.1
	SSNM	6450	10040	56.7	56.7	85.4	48.3	55.0	274.3	51885	2.3
	FFP	4777	7543	57.8	55.3	82.3	48.0	55.3	268.3	32766	1.5
Location mean		4446.4	6841.2	57.5	54.9	82.7	49.5	55.1	263.0	28737.0	1.3
C.D.(5%) AiBj-AiBk		555.2	915.5	4.5	4.2	4.9	1.9	2.6	8.4	6196.3	0.3
C.D.(5%) AiBk-AjBk		694.3	1004.0	5.0	4.4	6.7	2.3	3.1	21.1	7548.8	0.3
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
PHM-1		3911	6084	59.3	56.5	79.3	50.0	55.1	268.9	22627	1.0
PHM-3		5043	7881	58.4	53.4	83.6	51.1	56.1	263.9	35746	1.6
HQPM-1		2951	4262	58.9	56.4	83.7	49.3	54.0	238.3	11205	0.5
CMH-08-350		4573	6978	53.8	52.1	83.1	49.1	55.0	272.0	30142	1.3
CMH-08-292		5753	9001	57.1	56.1	83.8	48.1	55.1	272.0	43966	1.9
C.D. (5%) Ai-Aj		527.1	672.1	3.3	2.8	5.4	1.7	2.2	19.9	5615.3	0.2
C.V. (%) Error A		10.9	9.0	5.3	4.7	6.0	3.2	3.8	7.0	18.0	18.0
F (5%)		s	s	s	s	n.s.	s	n.s.	s	s	s
RDF		4679	7217	57.4	54.9	82.5	49.4	55.0	263.8	31504	1.4
SSNM		5099	7887	57.7	55.2	84.3	49.5	55.1	264.8	36218	1.6
FFP		3561	5420	57.4	54.6	81.4	49.7	55.1	260.4	18489	0.8
C.D. (5%) Bi-Bj		248.3	409.4	2.0	1.9	2.2	0.8	1.2	3.8	2771.0	0.1
C.V. (%) ErrorB		7.3	7.9	4.6	4.5	3.5	2.2	2.8	1.9	12.7	12.7
F (5%)		s	s	n.s.	n.s.	s	n.s.	n.s.	n.s.	s	s

Treatment details:**A. Main plot: Variety (5)**

- V₁ PHM-1
V₂ PHM-3
V₃ HQPM-1
V₄ CMH-08-350
V₅ CMH-08-292

B. Sub plot: Nutrient levels (N:P₂O₅:K₂O kg/ha) (3)

- F₁ RDF
F₂ SSNM based on nutrient expert
F₃ Farmers fertilizer practices

Table 53: Effect of planting density and nutrient management practices on the performance of hybrids in Kharif season at Bajaura.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant Height (cm)	Barrenness (%)	Days to 50% silking
EHL-161708	Normal (60x20 cm)	SRDF	8237	67.7	64.2	175.5	3.8	65.7
		NRDF	8865	70.2	69.4	175.0	2.7	65.7
		FP	6480	68.2	63.5	162.8	5.3	68.0
	High (60x15 cm)	SRDF	7697	89.4	83.2	170.9	4.5	66.0
		NRDF	8779	89.6	78.9	177.3	5.1	65.3
		FP	6356	80.8	75.2	166.3	5.1	67.0
EHL-162508	Normal (60x20 cm)	SRDF	8528	82.5	81.1	209.6	1.7	65.3
		NRDF	9470	81.1	78.9	208.9	2.4	65.3
		FP	6913	80.3	77.8	193.4	3.7	65.7
	High (60x15 cm)	SRDF	9754	103.3	102.5	216.4	3.1	64.7
		NRDF	9105	100.6	98.9	211.9	1.6	64.3
		FP	7195	102.8	101.1	206.6	2.5	65.3
Mean of location			8114.9	84.7	81.2	189.5	3.4	65.7
EHL-161708			7735	77.6	72.4	171.3	4.4	66.3
EHL-162508			8494	91.7	90.0	207.8	2.5	65.1
C. D. at (5%)			233.8	2.1	2.3	4.6	0.3	1.1
Significance			S	S	S	S	S	S
Normal (60x20 cm)			8082	75.0	72.5	187.5	3.3	65.9
High (60x15 cm)			8148	94.4	90.0	191.6	3.6	65.4
C. D. at (5%)			233.8	2.1	2.3	4.6	0.3	1.1
Significance			N.S.	S	S	N.S.	S	N.S.
SRDF			8554	85.7	82.7	193.1	3.3	65.4
NRDF			9055	85.4	81.5	193.3	2.9	65.2
Farmers' practice			6736	83.0	79.4	182.3	4.1	66.5
C. D. at (5%)			286.4	2.5	2.8	5.6	0.4	1.4
Significance			S	N.S.	N.S.	S	S	N.S.

Treatment details:

A. Main plot: Hybrids (2)

V₁ Medium maturity hybrid EHL-161708

V₂ Early maturity hybrid EHL-162508

B. Sub-plots: Density (2)

D₁ Normal (60x20 cm)

D₂ High (60x15 cm)

C. Sub- sub plots: Nutrient management (N:P₂O₅:K₂O kg/ha) (3)

F₁ SRDF (120:60:30)

F₂ NRDF ((150:60:40)

F₃ Farmers' practice (48 kg N/ha)

Table 54: Effect of planting density and nutrient management practices on the performance of hybrids at Kangra.

Hybrids	Nutrient management	Density	Grain yield (kg/ha)	Straw yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% silking
PAC 740	RDF	Normal	5847	15333	81.9	76.4	249.3	57.3
	SSNM		5552	14259	82.9	75.9	252.7	55.7
	STCR		5972	16481	82.9	80.6	256.3	55.3
	RDF	High	4126	14333	107.9	74.5	247.3	59.3
	SSNM		3941	13482	108.8	75.5	238.0	59.3
	STCR		5533	19259	107.4	77.3	270.0	60.7
KH121	RDF	Normal	5616	13963	82.4	78.7	204.7	53.0
	SSNM		5746	14518	84.3	78.2	218.7	53.3
	STCR		6905	18629	84.3	81.5	238.3	54.7
	RDF	High	4708	13926	108.8	76.9	225.3	54.0
	SSNM		5713	17815	108.8	75.5	217.0	54.0
	STCR		6794	21593	109.3	82.9	218.7	56.0
Mean of location			5537.8	16132.7	95.8	77.8	236.4	56.1
PAC 740			5162	15525	95.3	76.7	252.3	57.9
KH121			5914	16741	96.3	78.9	220.4	54.2
C. D. at (5%)			195.1	679.3	0.7	1.8	8.2	0.5
Significance			S	S	S	S	S	S
SSNM			5690	14519	82.9	77.3	231.3	54.8
RDF			5428	15842	95.9	78.4	241.8	55.8
STCR			5495	18037	108.6	77.8	235.9	57.5
C. D. at (5%)			238.9	832.0	0.8	2.2	10.1	0.6
Significance			N.S.	S	S	N.S.	N.S.	S
Normal			5666	15951	91.5	78.0	233.9	55.6
High			5410	16315	100.1	77.6	238.8	56.5
C. D. at (5%)			195.1	679.3	0.7	1.8	8.2	0.5
Significance			S	N.S.	S	N.S.	N.S.	S

Treatment details:**A. Main plot: Genotypes (2)**H₁ PAC 740H₂ KH121**B. Sub plot: Nutrient management (N:P₂O₅:K₂O kg/ha) (3)**F₁ SSNM: N:P:K 140:40:46)F₂ RDF: N:P:K 120:60:40F₃ STCR: N:P:K 270:52:115**C. Sub-sub plot: Density (2)**D₁ NormalD₂ High

Cont....

Hybrids	Nutrient management	Density	1000 grain weight	Bareness (%)	Net return (Rs/ha)	BC ratio	Nutrient uptake kg/ha		
							N	P	K
PAC-740	RDF	Normal	264.0	6.8	63407	2.1	130.5	39.3	139.8
	SSNM		276.3	8.4	59045	2.0	123.4	39.8	132.3
	STCR		247.4	2.8	63543	1.9	154.0	46.6	167.5
	RDF	High	247.6	30.9	40355	1.3	105.4	33.8	117.9
	SSNM		232.3	30.6	37642	1.3	104.2	32.7	111.2
	STCR		234.5	28.0	61546	1.8	161.2	51.8	185.0
KH-121	RDF	Normal	311.9	4.5	58575	2.0	125.3	36.9	122.1
	SSNM		297.7	7.1	61754	2.1	127.0	41.9	128.5
	STCR		294.1	3.3	77957	2.4	172.9	52.4	178.1
	RDF	High	269.2	29.4	46724	1.5	114.6	32.8	122.6
	SSNM		283.7	30.6	65410	2.2	142.1	42.6	157.1
	STCR		275.0	24.2	80174	2.4	187.5	58.2	200.3
Mean of location			269.5	17.2	59677.6	1.9	137.3	42.4	146.9
PAC 740			250.4	17.9	54256	1.8	129.8	40.7	142.3
KH121			288.6	16.5	65099	2.1	144.9	44.1	151.5
C. D. at (5%)			4.4	2.0	3138.0	0.1	6.5	2.5	8.1
Significance			S	N.S.	S	S	S	S	S
SSNM			287.5	6.7	60695	2.1	126.5	39.5	130.7
RDF			264.6	16.6	57145	1.8	136.7	41.4	146.5
STCR			256.4	28.4	61193	1.9	148.8	46.3	163.4
C. D. at (5%)			5.4	2.4	3843.3	0.1	8.0	3.0	9.9
Significance			S	S	N.S.	S	S	S	S
Normal			272.2	13.1	61089	2.0	138.2	41.7	146.0
High			266.7	21.3	58266	1.9	136.5	43.0	147.8
C. D. at (5%)			4.4	2.0	3138.0	0.1	6.5	2.5	8.1
Significance			S	S	N.S.	S	N.S.	N.S.	N.S.

Table 55: Effect of planting density and fertility levels on performance of maize hybrids in kharif season at Kashmir.

Hybrids	Spacing	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)
Kanchan 101	60 x 20 cm	100% RDF	5867	12267	81.0	71.0	234.7
		STCR	6233	14000	81.3	71.3	231.7
		SSNM	6767	11950	81.5	71.5	233.0
	60 x 15 cm	100% RDF	5300	14667	110.0	95.3	238.7
		STCR	5483	13767	108.0	96.2	237.7
		SSNM	5833	16033	107.8	89.0	237.3
HQPM-1	60 x 20 cm	100% RDF	6567	12667	81.3	71.3	239.0
		STCR	6817	12767	81.2	71.2	234.7
		SSNM	7200	11483	81.5	71.5	226.0
	60 x 15 cm	100% RDF	5467	15383	109.8	94.7	242.7
		STCR	5883	14667	109.7	97.3	240.3
		SSNM	6433	15767	109.8	93.3	236.7
Mean of location			6154.2	13784.7	190.5	165.6	236.0
Kanchan 101			5914	13781	94.9	82.4	235.5
HQPM-1			6394	13789	95.6	83.2	236.6
C. D. at (5%)			276.7	539.4	2.5	3.5	3.6
Significance			S	N.S.	N.S.	N.S.	N.S.
60 x 20 cm			6575	12522	81.3	71.3	233.2
60 x 15 cm			5733	15047	109.2	94.3	238.9
C. D. at (5%)			276.7	539.4	2.5	3.5	3.6
Significance			S	S	S	S	S
100% RDF			5800	13746	95.5	83.1	238.8
STCR			6104	13800	95.0	84.0	236.1
SSNM			6558	13808	95.2	81.3	233.3
C. D. at (5%)			338.9	660.6	3.1	4.3	4.4
Significance			S	N.S.	N.S.	N.S.	N.S.

Treatment details:**A. Main plot: Hybrids (2)**H₁ Kanchan 101H₂ HQPM-1**B. Sub plot: Plant spacing (cm) (2)**S₁ 60x20 cmS₂ 60x15 cm**Sub sub plot Nutrient management (N:P₂O₅:K₂O kg/ha) (3)**F₁ 100% RDFF₂ STCRF₃ SSNM based on nutrient expert

Cont....

Hybrids	Spacing	Nutrient management	Days to 50% tasseling	Days to 50% silking	N uptake by maize (kg/ha)	P uptake by maize (kg/ha)	K uptake by maize (kg/ha)
Kanchan 101	60 x 20 cm	100% RDF	89.3	95.3	136.5	19.9	143.8
		STCR	87.3	92.0	142.6	21.2	147.6
		SSNM	89.3	94.7	150.4	21.6	151.9
	60 x 15 cm	100% RDF	86.7	91.7	149.2	21.4	148.6
		STCR	84.3	89.0	148.8	20.9	148.4
		SSNM	85.3	89.3	147.1	22.3	144.9
HQPM-1	60 x 20 cm	100% RDF	88.0	93.3	141.3	20.6	153.1
		STCR	87.0	91.7	143.8	21.1	144.0
		SSNM	84.3	89.0	136.5	21.7	153.8
	60 x 15 cm	100% RDF	84.0	89.3	143.5	21.6	147.8
		STCR	82.0	87.0	142.8	20.5	144.6
		SSNM	85.0	89.3	144.4	21.5	143.7

Mean of location 86.1 91.0 143.9 21.2 147.7

Kanchan 101	87.1	92.0	145.8	21.2	147.5
HQPM-1	85.1	89.9	142.0	21.2	147.8

C. D. at (5%) 0.9 1.1 2.9 0.8 2.5
 Significance S S S N.S. N.S.

60 x 20 cm	87.6	92.7	141.8	21.0	149.0
60 x 15 cm	84.6	89.3	146.0	21.4	146.3

C. D. at (5%) 0.9 1.1 2.9 0.8 2.5
 Significance S S S N.S. S

100% RDF	87.0	92.4	142.6	20.9	148.3
STCR	85.2	89.9	144.5	20.9	146.1
SSNM	86.0	90.6	144.6	21.8	148.6

C. D. at (5%) 1.1 1.4 3.6 1.0 3.1
 Significance S S N.S. N.S. N.S.

Table 56: Effect of planting density and nutrient management practices on the performance of hybrids in kharif season (maize-wheat cropping system) at Kamal.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Days to maturity
DKS 9106	75x20 cm	RDF	6520	7693	63768	161.7	54.0	56.3	87.3
		STCR	6889	8129	64429	174.7	54.3	57.7	88.7
		SSNM	6679	7881	63728	164.7	54.3	57.3	88.3
	75x15 cm	RDF	6532	7708	84738	162.3	54.0	56.7	87.7
		STCR	6897	8138	83624	175.0	55.0	57.7	88.7
		SSNM	6599	7786	84502	166.3	54.7	57.3	88.3
DKS 9125	75x20 cm	RDF	7311	8773	64940	188.7	56.0	58.7	89.7
		STCR	7641	9170	64855	207.0	57.7	60.3	91.3
		SSNM	7466	8959	63651	193.7	57.0	60.0	91.0
	75x15 cm	RDF	7319	8783	83235	189.3	56.3	59.0	90.0
		STCR	7712	9254	84488	208.7	57.7	60.3	91.3
		SSNM	7557	9069	85390	194.7	57.3	60.0	91.0
Mean of location			7093.4	8445.2	74279.0	182.2	55.7	58.4	89.4
DKS 9106			6686	7889	74131	167.4	54.4	57.2	88.2
DKS 9125			7501	9001	74427	197.0	57.0	59.7	90.7
C. D. at (5%)			191.1	227.6	680.3	3.3	0.9	1.1	1.1
Significance			S	S	N.S.	S	S	S	S
75x20 cm			7084	8434	64229	181.7	55.6	58.4	89.4
75x15 cm			7103	8456	84329	182.7	55.8	58.5	89.5
C. D. at (5%)			191.1	227.6	680.3	3.3	0.9	1.1	1.1
Significance			N.S.	N.S.	S	N.S.	N.S.	N.S.	N.S.
RDF			6920	8239	74170	175.5	55.1	57.7	88.7
STCR			7285	8673	74349	191.3	56.2	59.0	90.0
SSNM			7075	8424	74318	179.8	55.8	58.7	89.7
C. D. at (5%)			234.0	278.8	833.2	4.1	1.1	1.3	1.3
Significance			S	S	N.S.	S	N.S.	N.S.	N.S.

Treatment details:

A. Main plot: Full maturity hybrids (2)

H₁ DKS 9106

H₂ DKS 9125

B. Sub plot: Planting density (2)

S₁ 75x20 cm

S₂ 75x15 cm

C. Sub- sub plots: Nutrient management (N+P₂O₅+K₂O kg/ha) (3)

G₁ RDF (150:60:60)

G₂ STCR (170:63:66)

G₃ SSNM based on nutrient expert (158:61:75)

Table 57: Effect of planting density and nutrient management practices on the performance of hybrids in kharif season at Ludhiana.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Days 50% tasseling	Days 50% silking	Days 75% Husk Brown
PMH 1	67.5x20 cm	RDF	4125	41.2	41.4	58.0	60.3	96.0
		STCR	4317	41.0	42.4	57.3	59.3	96.3
		SSNM	4465	41.2	41.0	56.0	60.0	97.3
	67.5x15 cm	RDF	4176	55.1	53.2	59.0	62.3	97.0
		STCR	4572	55.1	53.2	57.3	59.7	97.0
		SSNM	4766	55.3	54.4	56.7	58.7	97.7
DKC 9125	67.5x20 cm	RDF	4368	41.4	40.5	58.0	60.7	98.0
		STCR	4488	41.4	43.1	56.3	58.3	98.7
		SSNM	4514	41.9	42.4	55.3	56.3	98.7
	67.5x15 cm	RDF	4567	55.1	53.9	58.7	61.7	98.7
		STCR	4792	54.9	54.6	58.0	60.3	99.3
		SSNM	4910	55.3	54.9	56.7	58.7	99.3
Mean of location			4505.0	69.5	69.0	57.3	59.7	97.8
PMH 1			4404	48.1	47.6	57.4	60.1	96.9
DKC 9125			4606	48.3	48.2	57.2	59.3	98.8
C. D. at (5%)			164.4	0.7	1.0	0.9	0.8	0.9
Significance			S	N.S.	N.S.	N.S.	N.S.	S
67.5x20 cm			4380	41.4	41.8	56.8	59.2	97.5
67.5x15 cm			4630	55.1	54.1	57.7	60.2	98.2
C. D. at (5%)			164.4	0.7	1.0	0.9	0.8	0.9
Significance			S	S	S	S	S	N.S.
RDF			4309	48.2	47.3	58.4	61.3	97.4
STCR			4542	48.1	48.3	57.3	59.4	97.8
SSNM			4664	48.4	48.1	56.2	58.4	98.3
C. D. at (5%)			201.4	0.8	1.2	1.1	0.9	1.1
Significance			S	N.S.	S	S	S	N.S.

Treatment details:**A. Main plot: Hybrids (2)**G₁ PMH 1G₂ DKC 9125**B. Sub-Plots Density (2)**D₁ 67.5 x 20 cmD₂ 67.5 x 15 cm**C. Sub- sub plots: Nutrient management (N+ P₂O₅+K₂O kg/ha) (3)**F₁ RDFF₂ STCRF₃ SSNM

Cont....

Hybrids	Density	Nutrient management	Cob length (cm)	Cob girth (cm)	Grain row/cob	Plant height (cm)	Net returns (Rs/ha)	BC ratio
PMH 1	67.5x20 cm	RDF	19.3	4.4	14.7	204.0	54325	1.12
		STCR	19.4	4.5	15.3	208.3	61409	1.33
		SSNM	19.6	4.5	15.3	208.7	54056	0.95
	67.5x15 cm	RDF	17.7	4.3	14.0	207.7	54444	1.10
		STCR	18.6	4.4	14.0	210.7	66599	1.41
		SSNM	19.3	4.4	14.7	216.3	60399	1.04
DKC 9125	67.5x20 cm	RDF	18.4	4.5	14.7	198.3	60374	1.25
		STCR	18.7	4.6	15.3	200.7	65672	1.43
		SSNM	18.8	4.6	15.3	203.3	55266	0.97
	67.5x15 cm	RDF	18.7	4.3	14.0	200.3	64181	1.30
		STCR	18.7	4.5	15.3	204.0	72072	1.53
		SSNM	18.8	4.6	15.3	206.7	63971	1.10
Mean of location			18.8	4.5	14.8	205.8	61064.0	1.21
PMH 1			19.0	4.4	14.7	209.3	58539	1.16
DKC 9125			18.7	4.5	15.0	202.2	63589	1.26
C. D. at (5%)			0.4	0.1	0.6	4.5	4092.4	0.08
Significance			N.S.	N.S.	N.S.	S	S	S
67.5x20 cm			19.0	4.5	15.1	203.9	58517	1.17
67.5x15 cm			18.6	4.4	14.6	207.6	63611	1.25
C. D. at (5%)			0.4	0.1	0.6	4.5	4092.4	0.08
Significance			S	N.S.	N.S.	N.S.	S	N.S.
RDF			18.5	4.4	14.3	202.6	58331	1.19
STCR			18.8	4.5	15.0	205.9	66438	1.42
SSNM			19.1	4.5	15.2	208.8	58423	1.01
C. D. at (5%)			0.4	0.1	0.8	5.6	5012.2	0.10
Significance			S	S	N.S.	N.S.	S	S

Table 58: Effect of planting density and nutrient management practices on the performance of hybrids in kharif season at Pantnagar.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days 50% tasseling	Days 50% silking
4212 (Rashi seeds)	Normal 67.5x 20 cm	RDF	6432	7938	6152	68.7	68.3	197.3	45.7	49.0
		STCR	6695	8292	6588	69.1	70.0	213.7	45.7	48.7
		SSNM	6403	7827	5658	69.5	69.1	197.3	45.7	49.3
	High 67.5x15 cm	RDF	6831	8446	6545	94.5	94.8	199.0	46.0	50.0
		STCR	7157	8830	7051	91.7	91.7	212.3	44.7	48.7
		SSNM	6698	8309	6145	91.3	91.3	199.0	47.0	50.3
P3377 (Pioneer)	Normal 67.5x 20 cm	RDF	6782	8198	6572	67.1	66.3	215.7	49.7	52.3
		STCR	8280	10235	7568	70.8	72.4	230.7	48.7	51.3
		SSNM	7321	9004	7066	71.2	72.8	219.3	49.3	52.0
	High 67.5x15 cm	RDF	8313	10092	7768	92.9	92.9	218.7	49.3	52.0
		STCR	9316	11456	8442	93.7	93.7	233.3	49.7	52.3
		SSNM	8113	9943	7658	90.5	90.5	220.7	49.7	52.3
Mean of location			7361.8	9047.5	6934.5	80.9	81.2	213.1	47.6	50.7
4212 (Rashi seeds)			6703	8274	6357	80.8	80.9	203.1	45.8	49.3
P3377 (Pioneer)			8021	9821	7512	81.0	81.4	223.1	49.4	52.1
C. D. at (5%)			360.5	430.3	422.8	2.1	2.1	6.2	0.9	0.9
Significance			S	S	S	N.S.	N.S.	S	S	S
Normal 67.5x 20 cm			6985.6	8582.3	6600.8	69.4	69.8	212.3	47.4	50.4
High 67.5x15 cm			7737.9	9512.7	7268.3	92.4	92.5	213.8	47.7	50.9
C. D. at (5%)			360.5	430.3	422.8	2.1	2.1	6.2	0.9	0.9
Significance			S	S	S	S	S	N.S.	N.S.	N.S.
RDF			7090	8668	6759	80.8	80.6	207.7	47.7	50.8
STCR			7862	9703	7412	81.3	81.9	222.5	47.2	50.3
SSNM			7134	8771	6632	80.6	81.0	209.1	47.9	51.0
C. D. at (5%)			441.5	527.0	517.8	2.6	2.6	7.6	1.1	1.1
Significance			S	S	S	N.S.	N.S.	S	N.S.	N.S.

Treatment details:

A. Main plot: Full maturity hybrids (2)

H₁ 4212 (Rashi seeds)

H₂ P3377 (Pioneer)

B. Sub plot: Planting density (2)

D₁ 67.5 x 20 cm - normal

D₂ 67.5 x 15 cm – high

C. Sub-sub plot: Nutrient management (N:P₂O₅:K₂O/ha) (3)

N₁ RDF (120:60:40)

N₂ STCR (208:107:85)

N₃ SSNM (120:30:46)

Cont....

Table 59: Effect of plant density and nutrient management on the performance of hybrid in Kharif Season at Bahraich.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	N	P	K
									uptake (kg/ha)		
Hybrid 8255	60x20 cm	RDF	5281	6803	3961	82.5	81.7	210.7	153.2	31.7	47.7
		SSNM	5133	6756	3849	81.9	81.1	209.4	148.9	31.0	46.2
		STCR	4914	6614	3685	80.8	79.4	204.7	142.5	29.5	44.2
	50x20 cm	RDF	4764	6442	3554	98.1	96.7	208.3	137.3	28.5	42.6
		SSNM	4611	6331	3458	96.7	95.0	205.7	133.7	27.7	41.5
		STCR	4564	5478	3422	97.2	94.7	202.7	132.3	27.4	41.1
Hybrid 9682	60x20 cm	RDF	5144	6711	3855	82.5	80.6	212.2	149.2	31.2	46.3
		SSNM	5011	6711	3758	81.9	80.6	211.0	145.3	30.1	45.1
		STCR	4800	6617	3599	80.8	79.4	207.7	142.0	28.9	43.2
	50x20 cm	RDF	4736	6461	3552	97.8	96.9	209.6	137.3	28.4	42.3
		SSNM	4642	6422	3481	97.5	96.4	205.0	134.6	27.8	41.4
		STCR	4494	25275	3370	96.9	94.2	204.2	130.3	27.0	40.8
Mean of location			4841.2	8051.6	3628.7	107.5	105.7	207.6	140.6	29.1	43.5
Hybrid 8255			4878	6404	3655	89.5	88.1	206.9	141.3	29.3	43.9
Hybrid 9682			4805	9700	3603	89.6	88.0	208.3	139.8	28.9	43.2
C. D. at (5%)			53.2	6572.8	39.6	0.8	0.8	0.7	1.4	0.3	0.5
Significance			S	N.S.	S	N.S.	N.S.	S	S	S	S
60x20 cm			5047	6702	3785	81.8	80.5	209.3	146.8	30.4	45.4
50x20 cm			4635	9401	3473	97.4	95.6	205.9	134.3	27.8	41.6
C. D. at (5%)			53.2	6572.8	39.6	0.8	0.8	0.7	1.4	0.3	0.5
Significance			S	N.S.	S	S	S	S	S	S	S
RDF			4981	6604	3730	90.2	89.0	210.2	144.2	29.9	44.7
SSNM			4849	6555	3636	89.5	88.3	207.8	140.6	29.1	43.6
STCR			4693	10996	3519	89.0	86.9	204.8	136.8	28.2	42.3
C. D. at (5%)			65.2	8050.0	48.5	1.0	1.0	0.9	1.8	0.4	0.6
Significance			S	N.S.	S	S	S	S	S	S	S

Treatment details:**A. Main plot: Hybrids (2)**H₁ Hybrid 8255H₂ Hybrid 9682**B. Sub plots: Density (2)**D₁ 60x20 cmD₂ 50x20 cm**C. Sub-sub plots: Nutrient management (N+ P₂O₅+K₂O kg/ha) (3)**F₁ RDF- 150:60:60F₂ SSNM- 148:55:50F₃ STCR - 140:45:45

Table 60: Effect of planting density and nutrient management practices on the performance of hybrids in kharif season at Bhubaneswar.

Hybrids	Spacing	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Days to 50% silking	Days to maturity	1000 Grain Weight (gm)	Net Return (Rs/ha)	BC ratio
Hishel	60x20 cm	RDF	5142	12867	64.0	153.3	57.7	97.0	287.0	46408	1.37
	50x20 cm		5087	15733	78.7	154.0	59.0	97.3	309.3	48562	1.44
	60x20 cm	STCR	6082	16489	63.3	163.0	61.0	99.0	301.7	62347	1.84
	50x20 cm		5188	16711	76.2	161.8	59.0	97.0	313.3	50854	1.50
	60x20 cm	SSNM	6683	18333	64.0	168.8	58.7	97.0	324.5	72070	2.13
	50x20 cm		5372	17733	74.0	168.1	59.0	97.3	312.3	54292	1.61
P3441	60x20 cm	RDF	5996	17356	64.7	140.1	55.0	94.0	295.3	62093	1.84
	50x20 cm		5331	18089	77.8	133.9	56.0	93.0	310.3	54113	1.60
	60x20 cm	STCR	6320	19467	63.1	145.5	57.7	95.0	311.3	68444	2.02
	50x20 cm		5621	19933	75.1	142.6	57.0	96.0	313.3	59760	1.77
	60x20 cm	SSNM	6978	22444	62.9	153.6	56.0	94.0	324.5	80036	2.37
	50x20 cm		6230	22067	76.9	150.6	58.0	95.0	312.3	69870	2.07
Mean of location			5835.9	18101.9	105.1	152.9	57.8	96.0	309.6	60737.3	1.80
Hishel			5592	16311	70.0	161.5	59.1	97.4	308.0	55755	1.65
P3441			6080	19893	70.1	144.4	56.6	94.5	311.2	65719	1.94
C. D. at (5%)			188.4	793.3	1.8	2.5	0.5	0.7	6.1	2658.8	0.08
Significance			S	S	N.S.	S	S	S	N.S.	S	S
60x20 cm			5660	16667	68.6	148.3	57.7	95.9	302.5	56994	1.69
50x20 cm			6012	19537	71.5	157.6	57.9	96.1	316.7	64480	1.91
C. D. at (5%)			188.4	793.3	1.8	2.5	0.5	0.7	6.1	2658.8	0.08
Significance			S	S	S	S	N.S.	N.S.	S	S	S
RDF			5487	16717	70.0	149.5	57.2	96.0	302.3	54779	1.62
STCR			6020	18650	70.8	152.6	57.4	95.3	317.2	63695	1.88
SSNM			6001	18939	69.3	156.8	58.9	96.6	309.4	63738	1.88
C. D. at (5%)			230.7	971.5	2.2	3.0	0.6	0.8	7.5	3256.3	0.10
Significance			S	S	N.S.	S	S	S	S	S	S

Treatment details:

A. Main plot: Genotypes (2)

G₁ Hishel

G₂ P3441

B. Sub plots: Density (2)

D₁ 60x20 cm

D₂ 50x20 cm

C. Sub- sub plots: Nutrient management (N+ P₂O₅+K₂O kg/ha) (3)

N₁ RDF-120:60:60 kg N:P₂O₅:K₂O/ha

N₂ STCR

N₃ SSNM-150:60:75 kg N:P₂O₅:K₂O/ha

Table 61: Effect of planting density and nutrient management practices on the performance of hybrid in Dholi.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days of 50% silking	Days of 75% maturity
Shaktiman-5	60x20 cm	STCR	4077	6044	82.7	93.1	162.7	55.7	58.3	91.7
		SSNM	5697	8400	82.7	93.3	160.7	56.7	59.3	91.7
		RDF	4745	6844	82.4	84.0	165.0	56.3	59.3	91.0
	50x20 cm	STCR	4493	6533	82.2	93.6	167.3	55.7	58.7	93.7
		SSNM	5651	7936	82.2	90.0	161.7	49.0	58.7	93.7
		RDF	4942	6978	82.4	83.6	155.0	56.3	59.3	92.3
P3377 (Pioneer)	60x20 cm	STCR	4646	6533	98.7	106.7	165.7	57.0	60.0	92.0
		SSNM	5072	7489	98.9	103.3	167.3	56.3	58.3	92.7
		RDF	4817	6800	98.4	100.4	166.0	56.3	59.3	92.0
	50x20 cm	STCR	4748	7200	98.4	107.1	168.3	55.0	58.0	92.3
		SSNM	5631	8067	98.4	103.6	166.7	55.0	57.3	93.3
		RDF	5004	7600	99.1	100.0	166.0	56.0	59.0	93.0
Mean of location			4960.3	7202.0	135.8	144.8	164.4	55.4	58.8	92.4
Shaktiman-5			4934	7123	82.4	89.6	162.1	54.9	58.9	92.3
P3377 (Pioneer)			4986	7281	98.7	103.5	166.7	55.9	58.7	92.6
C. D. at (5%)			258.8	378.5	1.1	2.3	6.5	2.7	0.9	1.1
Significance			N.S.	N.S.	S	S	N.S.	N.S.	N.S.	N.S.
60x20 cm			4842	7019	90.6	96.8	164.6	56.4	59.1	91.8
50x20 cm			5078	7386	90.5	96.3	164.2	54.5	58.5	93.1
C. D. at (5%)			258.8	378.5	1.1	2.3	6.5	2.7	0.9	1.1
Significance			N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	S
STCR			4491	6578	90.5	100.1	166.0	55.8	58.8	92.4
SSNM			5513	7973	90.6	97.6	164.1	54.3	58.4	92.8
RDF			4877	7056	90.6	92.0	163.0	56.3	59.3	92.1
C. D. at (5%)			316.9	463.6	1.4	2.8	8.0	3.3	1.1	1.4
Significance			S	S	N.S.	S	N.S.	N.S.	N.S.	N.S.

Treatment details:**A. Main plot: Hybrids (2)**H₁ Shaktiman-5H₂ P3377 (Pioneer)**B. Sub plots: Density (2)**D₁ 60x20 cmD₂ 50x20 cm**C. Sub-sub plots: Nutrient management (N+ P₂O₅+K₂O kg/ha) (3)**F₁ STCR – (151:60:60)F₂ SSNM – (139:34.5:75)F₃ RDF – (100:60:60)

Table 62: Effect of planting density and nutrient management practices on the performance of hybrids in Ranchi.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling
BIO-9637	60x20 cm	RDF	6764	9424	81.1	79.6	221.5	51.3
		STCR	6491	8749	82.9	81.1	234.3	51.0
		SSNM	7276	9860	82.9	81.6	194.9	52.0
	50x20 cm	RDF	5907	10338	94.9	86.0	195.3	52.0
		STCR	6820	11442	97.1	89.6	225.1	49.3
		SSNM	5891	9980	95.8	88.4	238.6	49.7
BIO-9682	60x20 cm	RDF	6691	8953	81.6	80.0	208.4	50.3
		STCR	8153	10882	81.1	80.0	212.1	48.3
		SSNM	7733	10187	82.0	80.7	229.4	48.7
	50x20 cm	RDF	6020	9349	96.0	89.3	230.0	51.0
		STCR	8229	12398	96.4	90.4	228.8	50.3
		SSNM	7393	11078	96.2	90.7	214.9	50.7
Mean of location			6947.4	10220.0	89.0	84.8	219.5	50.4
BIO-9637			6525	9966	89.1	84.4	218.3	50.9
BIO-9682			7370	10474	88.9	85.2	220.6	49.9
C. D. at (5%)			358.0	505.5	2.8	2.7	7.4	1.0
Significance			S	S	N.S.	N.S.	N.S.	N.S.
60x20 cm			7185	9676	81.9	80.5	216.8	50.3
Maize + Blackgram			6710	10764	96.1	89.1	222.1	50.5
C. D. at (5%)			358.0	505.5	2.8	2.7	7.4	1.0
Significance			S	S	S	S	N.S.	N.S.
RDF			6346	9516	88.4	83.7	213.8	51.2
STCR			7423	10868	89.4	85.3	225.1	49.8
SSNM			7073	10276	89.2	85.3	219.5	50.3
C. D. at (5%)			438.4	619.1	3.5	3.3	9.0	1.3
Significance			S	S	N.S.	N.S.	N.S.	N.S.

Treatment details:**A. Main plot: Hybrids (2)**H₁ BIO-9637H₂ BIO-9682**B. Sub plot: Density (2)**D₁ 60x20 cmD₂ 50x20 cm**C. Sub-sub Plots: Nutrient management (N+ P₂O₅+K₂O kg/ha) (3)**F₁ RDF (150:60:40)F₂ STCR (238:108:156)F₃ SSNM (170 :67:86)

Cont....

Hybrids	Density	Nutrient management	No. of grains/row	No. of grains row/cob	Days to 50% silking	Cob length (cm)	Cob girth (cm)	No. of grains/cob
BIO-9637	60x20 cm	RDF	25.0	13.9	56.3	16.7	14.7	358.2
		STCR	27.3	14.1	54.0	18.5	16.8	441.9
		SSNM	28.3	12.7	55.0	19.2	15.4	418.5
	50x20 cm	RDF	27.8	14.8	55.3	18.3	12.0	325.9
		STCR	28.9	15.3	53.3	19.0	12.8	362.1
		SSNM	25.3	12.9	53.7	16.8	15.9	394.0
BIO-9682	60x20 cm	RDF	25.7	14.7	53.3	17.2	15.0	375.1
		STCR	31.9	15.4	51.3	21.7	15.5	476.2
		SSNM	32.7	13.2	52.7	22.2	15.5	488.1
	50x20 cm	RDF	28.1	13.9	55.7	18.6	15.7	432.1
		STCR	26.0	13.8	53.3	17.2	15.5	393.4
		SSNM	25.1	12.2	53.7	16.6	13.1	322.2
Mean of location			27.7	13.9	54.0	18.5	14.8	399.0
BIO-9637			27.1	14.0	54.6	18.1	14.6	383.4
BIO-9682			28.2	13.9	53.3	18.9	15.1	414.5
C. D. at (5%)			0.9	0.4	1.1	0.6	0.5	21.3
Significance			S	N.S.	S	S	N.S.	S
60x20 cm			28.5	14.0	53.8	19.3	15.5	426.3
Maize + Blackgram			26.9	13.8	54.2	17.7	14.2	371.6
C. D. at (5%)			0.9	0.4	1.1	0.6	0.5	21.3
Significance			S	N.S.	N.S.	S	S	S
RDF			26.7	14.4	55.2	17.7	14.4	372.8
STCR			28.5	14.6	53.0	19.1	15.2	418.4
SSNM			27.9	12.7	53.8	18.7	15.0	405.7
C. D. at (5%)			1.1	0.5	1.3	0.7	0.6	26.1
Significance			S	S	S	S	S	S

Cont....

Table 63: Effect of planting density and nutrient management practices on the performance of hybrids in kharif season at Arbhavi.

Plant Density	Nutrient management	Hybrids	Grain yield (kg/ha)	Cob yield (kg/ha)	Fodder yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling
60x20 cm	RDF	NK-6240	10998	14600	12000	58.6	57.6	186.9	59.0
		900M Super	9494	12300	7533	61.8	61.6	187.5	59.3
	SSNM	NK-6240	11767	15311	11511	57.6	57.3	198.6	58.3
		900M Super	8479	10900	6833	62.7	61.1	206.7	59.0
	STCR	NK-6240	11507	15600	11378	59.1	58.9	216.6	58.7
		900M Super	8294	10989	6722	60.0	59.2	207.4	58.7
50x20 cm	RDF	NK-6240	11525	15200	12853	68.0	69.3	195.5	58.7
		900M Super	9828	12773	7787	69.5	68.8	187.5	59.0
	SSNM	NK-6240	12001	15520	13173	72.8	72.0	206.5	59.0
		900M Super	8923	11453	7440	66.9	66.3	203.0	58.3
	STCR	NK-6240	12275	16093	14000	72.9	73.1	213.7	59.0
		900M Super	8592	10933	7280	72.3	70.5	189.1	59.0

Mean of location 10306.8 13472.8 9875.9 65.2 64.6 199.9 58.8

60x20 cm	10090	13283	9330	59.9	59.3	200.6	58.8
50x20 cm	10524	13662	10422	70.4	70.0	199.2	58.8

C. D. at (5%) 368.0 472.1 788.0 2.0 1.8 7.4 0.4
Significance S N.S. S S S N.S. N.S.

RDF (150:65:65)	10461	13718	10043	64.5	64.3	189.4	59.0
SSNM (150 :64:113)	10292	13296	9739	65.0	64.2	203.7	58.7
STCR (240:153:80)	10167	13404	9845	66.1	65.4	206.7	58.8

C. D. at (5%) 450.7 578.1 965.1 2.5 2.2 9.1 0.4
Significance N.S. N.S. N.S. N.S. N.S. S N.S.

NK-6240	11679	15387	12486	64.8	64.7	203.0	58.8
900M Super	8935	11558	7266	65.5	64.6	196.9	58.9

C. D. at (5%) 368.0 472.1 788.0 2.0 1.8 7.4 0.4
Significance S S S N.S. N.S. N.S. N.S.

Treatment details:

A. Main-plot: Density (2)

D₁ 60x20 cm

D₂ 50x20 cm

B. Sub plot: Nutrient management (N: P₂O₅:K₂O kg/ha) (3)

F₁ RDF (150:65:65)

F₂ SSNM (150 :64:113)

F₃ STCR method (240:153:80)

C. Sub- sub plots: (Genotypes) (2)

G₁ NK-6240

G₂ 900M Super

Cont....

Plant Density	Nutrient management	Hybrids	Days to 50% silking	Cob length (cm)	Cob girth (cm)	Grains per row	Grain rows per cob	Net profit (Rs/ha)	BC ratio
60x20 cm	RDF	NK-6240	59.3	14.8	4.9	31.5	14.4	79557	3.61
		900M Super	60.3	16.3	4.9	36.7	16.3	64511	3.12
	SSNM	NK-6240	59.0	15.3	4.9	31.6	14.7	86006	3.72
		900M Super	59.7	16.0	4.9	36.7	15.5	53128	2.68
	STCR	NK-6240	59.0	16.5	5.1	34.0	14.7	78854	3.18
		900M Super	60.0	15.2	4.7	35.1	14.4	46726	2.29
50x20 cm	RDF	NK-6240	59.3	14.3	4.7	29.7	14.9	84828	3.79
		900M Super	60.7	14.6	4.7	34.3	16.8	67855	3.23
	SSNM	NK-6240	59.7	15.1	4.8	32.4	14.4	88348	3.79
		900M Super	59.0	15.0	4.7	35.1	15.1	57572	2.82
	STCR	NK-6240	59.7	15.1	4.8	31.1	13.9	86533	3.39
		900M Super	59.7	14.9	4.8	33.2	15.3	49703	2.37
Mean of location			59.6	15.3	4.8	33.4	15.0	70301.8	3.17
60x20 cm			59.6	15.7	4.9	34.3	15.0	68130	3.10
50x20 cm			59.7	14.8	4.8	32.6	15.1	72473	3.23
C. D. at (5%)			0.5	0.7	0.1	1.4	0.4	3679.6	0.11
Significance			N.S.	S	S	S	N.S.	S	S
RDF (150:65:65)			59.9	15.0	4.8	33.0	15.6	74188	3.44
SSNM (150 :64:113)			59.3	15.4	4.8	34.0	14.9	71263	3.25
STCR (240:153:80)			59.6	15.4	4.8	33.4	14.6	65454	2.81
C. D. at (5%)			0.6	0.8	0.2	1.7	0.5	4506.6	0.14
Significance			N.S.	N.S.	N.S.	N.S.	S	S	S
NK-6240			59.3	15.2	4.9	31.7	14.5	84021	3.58
900M Super			59.9	15.3	4.8	35.2	15.6	56583	2.75
C. D. at (5%)			0.5	0.7	0.1	1.4	0.4	3679.6	0.11
Significance			S	N.S.	N.S.	S	S	S	S

Table 64: Effect of planting density and nutrient management practices on the performance of maize hybrids in kharif season at Hyderabad.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Strew yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% silking
P-3396	Normal 60x20 cm	RDF	7464	8189	81.1	72.5	233.9	57.7
		STCR	8695	8993	79.4	76.9	261.0	58.7
		SSNM	6219	7543	79.3	68.6	240.9	57.0
		150%	8247	9497	75.7	79.5	233.3	59.3
	High 50x20 cm	RDF	7402	7887	96.1	82.3	243.4	56.7
		STCR	8539	8560	93.2	84.3	288.0	57.3
		SSNM	6255	7393	90.9	79.3	250.0	56.3
		150%	7971	9423	94.6	88.9	243.8	58.7
NK-6240	Normal 60x20 cm	RDF	7877	8483	77.7	74.5	235.8	60.0
		STCR	10291	9657	78.8	77.8	277.0	60.3
		SSNM	6490	7777	77.9	71.0	243.5	58.0
		150%	8962	9245	78.5	81.2	237.9	61.7
	High 50x20 cm	RDF	7497	7762	92.6	87.3	230.0	57.0
		STCR	8835	9127	89.1	84.9	232.3	59.0
		SSNM	6341	7487	96.6	80.0	228.3	57.7
		150%	8204	8990	91.8	92.0	236.3	59.3
Mean of location			7830.4	8500.8	85.8	80.1	244.7	58.4
P-3396			7599	8436	86.3	79.0	249.3	57.7
NK-6240			8062	8566	85.4	81.1	240.1	59.1
C. D. at (5%)			311.9	229.0	3.6	1.1	4.1	0.4
Significance			S	N.S.	N.S.	S	S	S
Normal 60x20 cm			8031	8673	78.6	75.3	245.4	59.1
High 50x20 cm			7630	8329	93.1	84.9	244.0	57.8
C. D. at (5%)			311.9	229.0	3.6	1.1	4.1	0.4
Significance			S	S	S	S	N.S.	S
RDF			7560	8080	86.9	79.2	235.8	57.8
STCR			9090	9084	85.1	81.0	264.6	58.8
SSNM			6326	7550	86.2	74.7	240.7	57.3
150%			8346	9289	85.1	85.4	237.8	59.8
C. D. at (5%)			441.1	323.9	5.1	1.6	5.8	0.5
Significance			S	S	N.S.	S	S	S

Treatment details:

A. Main plot: Full season maize hybrids (2)

- H₁ P-3396
H₂ NK-6240

B. Sub plot: Plant Density (2)

- D₁ Normal 60x20 cm (83,333 pl/ha)
D₂ High 50x20 cm (1,00,000 pl/ha)

C. Sub-sub Plots: Nutrient levels (N:P₂O₅:K₂O kg/ha) (4)

- N₁ RDF (200-60-50)
N₂ STCR (265-50-48)
N₃ SSNM (141-60-90)
N₄ 150% (300-90-75)

Cont....

Hybrids	Density	Nutrient management	Days to maturity	Net returns (Rs/ha)	BC Ratio	Cob length (cm)	Cob girth (cm)	No. of seed/row	Test weight (1000)
P-3396	Normal 60x20 cm	RDF	98.7	48614	2.0	15.8	14.7	33.9	300.0
		STCR	101.3	56441	3.0	16.8	15.3	35.7	340.0
		SSNM	96.7	39285	1.8	16.2	14.2	31.3	273.3
		150%	102.0	58552	2.5	17.0	14.7	35.7	320.0
	High 50x20 cm	RDF	100.3	42472	1.8	16.6	14.2	32.7	300.0
		STCR	104.0	51974	2.4	17.8	15.0	34.0	313.3
		SSNM	98.7	37561	1.7	16.0	13.8	30.7	276.7
		150%	104.7	54523	2.0	17.9	13.9	32.3	340.0
NK-6240	Normal 60x20 cm	RDF	100.3	53621	1.9	16.8	15.4	32.7	400.0
		STCR	102.7	70186	3.4	16.0	16.2	36.0	440.0
		SSNM	98.7	41064	1.8	15.8	14.2	32.3	346.7
		150%	103.7	59241	2.6	16.1	15.3	35.0	420.0
	High 50x20 cm	RDF	103.0	42199	1.8	17.5	14.9	32.3	360.0
		STCR	105.3	60257	2.8	16.9	14.3	35.3	380.0
		SSNM	102.0	40958	1.8	16.5	13.2	30.3	320.0
		150%	106.3	55343	2.2	17.5	13.8	34.0	356.7
Mean of location			101.8	50768.3	2.2	16.7	14.6	33.4	342.9
P-3396			100.8	48678	2.1	16.8	14.5	33.3	307.9
NK-6240			102.8	52859	2.3	16.6	14.7	33.5	377.9
C. D. at (5%)			0.6	3299.3	0.2	0.2	0.2	1.0	12.0
Significance			S	S	N.S.	N.S.	N.S.	N.S.	S
Normal 60x20 cm			100.5	53376	2.4	16.3	15.0	34.1	355.0
High 50x20 cm			103.0	48161	2.1	17.1	14.2	32.7	330.8
C. D. at (5%)			0.6	3299.3	0.2	0.2	0.2	1.0	12.0
Significance			S	S	S	S	S	S	S
RDF			100.6	46727	1.9	16.7	14.8	32.9	340.0
STCR			103.3	59714	2.9	16.9	15.2	35.3	368.3
SSNM			99.0	39717	1.8	16.1	13.9	31.2	304.2
150%			104.2	56915	2.3	17.1	14.4	34.3	359.2
C. D. at (5%)			0.9	4665.9	0.2	0.3	0.3	1.4	17.0
Significance			S	S	S	S	S	S	S

Table 65: Effect of planting density and nutrient management practices on performance of full season hybrids in kharif season maturity hybrids at Karimnagar.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Plant height (cm)	Days to 50% silking	Cob length (cm)	Cob girth (cm)
NK 6240	60x20 cm	SSNM	9927	11650	244.7	55.3	18.1	15.6
		STCR	9839	12026	254.3	55.0	18.7	16.1
		RDF	10302	12213	256.0	54.7	19.7	16.7
	50x20 cm	SSNM	9547	11420	242.5	55.3	17.0	15.6
		STCR	9488	11237	250.5	55.0	17.8	16.1
		RDF	9415	11315	244.7	55.0	18.9	16.4
K 3110	60x20 cm	SSNM	10052	12969	239.3	55.0	18.3	15.7
		STCR	9307	11198	250.3	55.0	18.4	16.2
		RDF	10255	12209	252.0	54.7	19.8	16.8
	50x20 cm	SSNM	9425	11347	236.5	55.3	17.0	15.7
		STCR	9221	10970	239.5	55.0	18.5	15.9
		RDF	9443	11303	247.2	56.0	19.2	16.4
Mean of location			9685.1	11654.8	246.5	55.1	18.4	16.1
NK 6240			9753	11643	248.8	55.1	18.4	16.1
K 3110			9617	11666	244.1	55.2	18.5	16.1
C. D. at (5%)			452.7	551.7	6.9	0.5	0.7	0.4
Significance			N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
60x20 cm			9947	12044	249.4	54.9	18.8	16.2
50x20 cm			9423	11266	243.5	55.3	18.1	16.0
C. D. at (5%)			452.7	551.7	6.9	0.5	0.7	0.4
Significance			S	S	N.S.	N.S.	S	N.S.
SSNM (190:84:143)			9738	11847	240.8	55.3	17.6	15.7
STCR (260:94:61)			9464	11358	248.7	55.0	18.4	16.1
RDF (200:60:50)			9854	11760	250.0	55.1	19.4	16.6
C. D. at (5%)			554.4	675.7	8.4	0.6	0.9	0.5
Significance			N.S.	N.S.	N.S.	N.S.	S	S

Treatment details:

A. Main plot: Full season Hybrids (2)

H₁ NK 6240

H₂ K 3110

B. Sub plots: Planting density (2)

D₁ 60x20 cm

D₂ 50x20 cm

C. Sub-sub plots: Nutrient management (N: P₂O₅: K₂O kg/ha) (3)

F₁ SSNM: 190:84:143

F₂ STCR: 260:94:61

F₃ RDF: 200:60:50

Cont....

Hybrids	Density	Nutrient management	No. of kernel rows	No. of kernels / row of cob	1000-grain weight (g)	Net returns (Rs./ha)	B : C Ratio
NK 6240	60x20 cm	SSNM	14.0	32.7	362.0	77627	2.48
		STCR	14.3	34.0	397.3	76478	2.46
		RDF	15.6	36.6	414.7	82544	2.57
	50x20 cm	SSNM	13.6	32.1	375.3	71634	2.34
		STCR	14.3	33.1	385.3	70866	2.33
		RDF	15.2	34.4	402.0	69905	2.31
K 3110	60x20 cm	SSNM	14.4	34.2	370.0	79269	2.51
		STCR	14.5	35.7	374.7	69509	2.33
		RDF	15.1	36.5	406.0	81919	2.56
	50x20 cm	SSNM	13.6	34.0	368.0	70041	2.31
		STCR	13.7	34.1	372.0	67372	2.26
		RDF	14.3	36.3	390.0	70276	2.32
Mean of location			14.4	34.5	384.8	73953.3	2.40
NK 6240			14.5	33.8	389.4	74842	2.42
K 3110			14.3	35.1	380.1	73064	2.38
C. D. at (5%)			0.6	2.0	17.3	5930.0	0.11
Significance			N.S.	N.S.	N.S.	N.S.	N.S.
60x20 cm			14.7	35.0	387.4	77891	2.49
50x20 cm			14.1	34.0	382.1	70016	2.31
C. D. at (5%)			0.6	2.0	17.3	5930.0	0.11
Significance			N.S.	N.S.	N.S.	S	S
SSNM (190:84:143)			13.9	33.3	368.8	74643	2.41
STCR (260:94:61)			14.2	34.3	382.3	71056	2.34
RDF (200:60:50)			15.0	35.9	403.2	76161	2.44
C. D. at (5%)			0.8	2.5	21.2	7262.7	0.14
Significance			S	N.S.	S	N.S.	N.S.

Table 66: Effect of planting density and nutrient management practices on the performance of hybrids in kharif season at Ambikapur.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (Kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% silking
Bio 9637	60x20 cm	RDF	7908	12182	79.4	78.3	234.6	54.3
		STCR	8000	12749	78.8	77.6	235.4	53.7
		SSNM	8701	13834	79.4	78.2	233.5	54.7
	50x20 cm	RDF	6874	10404	97.2	94.7	242.5	54.0
		STCR	6736	10710	97.4	95.8	251.5	54.3
		SSNM	6546	10408	97.1	95.7	259.7	54.3
Bio 9682	60x20 cm	RDF	6751	10350	78.9	77.8	223.5	53.7
		STCR	6958	11064	79.7	78.8	227.5	54.0
		SSNM	7008	11143	80.0	79.0	232.5	54.7
	50x20 cm	RDF	6190	9537	96.5	95.1	225.2	54.0
		STCR	6542	10401	96.4	94.7	240.2	54.0
		SSNM	6486	10313	96.3	94.4	243.0	53.3
Mean of location			7058.3	11091.3	88.1	86.7	237.4	54.1
Bio 9637			7461	11715	88.2	86.7	242.9	54.2
Bio 9682			6656	10468	88.0	86.6	232.0	53.9
C. D. at (5%)			511.3	812.9	1.2	1.2	7.7	0.9
Significance			S	S	N.S.	N.S.	S	N.S.
60x20 cm			7554	11887	79.4	78.3	231.2	54.2
50x20 cm			6562	10296	96.8	95.1	243.7	54.0
C. D. at (5%)			511.3	812.9	1.2	1.2	7.7	0.9
Significance			S	S	S	S	S	N.S.
RDF			6931	10618	88.0	86.5	231.4	54.0
STCR			7059	11231	88.1	86.7	238.7	54.0
SSNM			7185	11425	88.2	86.8	242.2	54.3
C. D. at (5%)			626.2	995.7	1.5	1.4	9.4	1.1
Significance			N.S.	N.S.	N.S.	N.S.	N.S.	N.S.

Treatment details:

A. Main plot: Hybrids (2)

H₁ Bio 9637

H₂ Bio 9682

B. Sub plot: Plant Density (2)

D₁ 60x20 cm

D₂ 50x20 cm

C. Sub-sub Plots: Nutrient management (N: P₂O₅: K₂O kg/ha) (3)

F₁ RDF (150:60:40)

F₂ STCR (165:75:81)

F₃ SSNM (170:67:86)

Cont....

Hybrids	Density	Nutrient management	Barrenness (%)	Cob length (cm)	Cob girth (cm)	No of rows/cob	No of grains/rows
Bio 9637	60x20 cm	RDF	1.4	18.9	13.9	12.8	35.5
		STCR	1.4	19.5	15.1	14.4	41.1
		SSNM	1.6	20.2	15.6	15.0	42.7
	50x20 cm	RDF	2.6	18.0	13.8	12.5	33.7
		STCR	1.6	18.9	14.8	14.3	40.2
		SSNM	1.4	19.8	15.5	14.9	41.7
Bio 9682	60x20 cm	RDF	1.4	18.6	13.8	12.7	35.5
		STCR	1.2	19.2	15.0	14.3	40.4
		SSNM	1.2	19.9	15.5	14.9	41.8
	50x20 cm	RDF	1.5	17.9	13.5	12.5	33.4
		STCR	1.7	18.8	14.8	14.3	40.1
		SSNM	1.9	19.6	15.2	14.9	41.7

Mean of location 1.6 19.1 14.7 14.0 39.0

Bio 9637	1.7	19.2	14.8	14.0	39.2
Bio 9682	1.5	19.0	14.6	13.9	38.8

C. D. at (5%) 0.4 0.6 0.4 0.4 0.9
Significance N.S. N.S. N.S. N.S. N.S.

60x20 cm	1.4	19.4	14.8	14.0	39.5
50x20 cm	1.8	18.8	14.6	13.9	38.5

C. D. at (5%) 0.4 0.6 0.4 0.4 0.9
Significance S N.S. N.S. N.S. S

RDF	1.7	18.4	13.7	12.6	34.5
STCR	1.5	19.1	14.9	14.3	40.4
SSNM	1.5	19.9	15.5	14.9	42.0

C. D. at (5%) 0.5 0.7 0.5 0.5 1.1
Significance N.S. S S S S

Hybrids	Density	Nutrient management	1000 seed weight (g)	Net return (Rs./ha)	BC ratio	Total N uptake (kg/ha)	Total P uptake (kg/ha)	Total K uptake (kg/ha)
Bio 9637	60x20 cm	RDF	348.8	75784	3.18	175.6	32.2	161.1
		STCR	375.3	75329	2.97	183.4	33.5	169.0
		SSNM	368.6	83371	3.17	200.6	37.0	186.1
	50x20 cm	RDF	337.6	62665	2.63	149.7	27.5	135.4
		STCR	364.8	59573	2.35	151.5	27.8	139.5
		SSNM	362.6	56208	2.14	148.3	27.5	137.5
Bio 9682	60x20 cm	RDF	322.4	61070	2.57	148.4	26.8	134.7
		STCR	366.8	62144	2.45	157.9	29.4	144.6
		SSNM	386.0	61900	2.35	160.4	29.2	147.7
	50x20 cm	RDF	340.2	53814	2.26	135.3	24.5	122.4
		STCR	354.8	56858	2.24	147.1	26.7	134.5
		SSNM	361.3	55278	2.10	146.3	26.9	135.0
Mean of location			357.4	63666.1	2.53	158.7	29.1	145.6
Bio 9637			359.6	68821	2.74	168.2	30.9	154.8
Bio 9682			355.3	58511	2.33	149.2	27.2	136.5
C. D. at (5%)			9.1	6420.9	0.25	12.0	2.2	10.3
Significance			N.S.	S	S	S	S	S
60x20 cm			361.3	69933	2.78	171.1	31.3	157.2
50x20 cm			353.6	57399	2.29	146.4	26.8	134.0
C. D. at (5%)			9.1	6420.9	0.25	12.0	2.2	10.3
Significance			N.S.	S	S	S	S	S
RDF			337.3	63333	2.66	152.3	27.7	138.4
STCR			365.4	63476	2.50	160.0	29.3	146.9
SSNM			369.6	64189	2.44	163.9	30.2	151.6
C. D. at (5%)			11.2	7863.9	0.31	14.8	2.7	12.6
Significance			S	N.S.	N.S.	N.S.	N.S.	N.S.

Table 67: Effect of plant density and nutrient management practices on the performance of hybrids in Banswara.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% silking
HQPM-1	60x20 cm	RDF	5156	6290	65.6	54.9	173.3	48.3
		STCR	3533	4417	44.9	37.6	165.0	48.0
		SSNM	5356	6427	66.9	55.8	186.7	49.0
	50x20 cm	RDF	5978	7293	83.3	64.4	175.0	48.7
		STCR	4133	5167	58.0	45.1	168.3	47.7
		SSNM	6267	7520	83.3	65.8	188.3	49.0
DHM 117	60x20 cm	RDF	6680	7708	74.4	62.4	201.7	46.3
		STCR	4444	5556	54.9	45.1	185.0	44.7
		SSNM	6989	7898	75.1	64.0	208.3	47.3
	50x20 cm	RDF	7440	8582	85.3	71.6	203.3	45.7
		STCR	5111	6222	64.4	53.8	191.7	44.3
		SSNM	7667	8667	89.1	73.3	213.3	47.0
Mean of location			5729.4	6812.1	105.7	86.7	188.3	47.2
HQPM-1			5070	6185	67.0	53.9	176.1	48.4
DHM-117			6389	7439	73.9	61.7	200.6	45.9
C. D. at (5%)			353.8	472.6	6.5	5.5	5.0	0.6
Significance			S	S	S	S	S	S
60x20 cm			5360	6382	63.6	53.3	186.7	47.3
50x20 cm			6099	7242	77.3	62.3	190.0	47.1
C. D. at (5%)			353.8	472.6	6.5	5.5	5.0	0.6
Significance			S	S	S	S	N.S.	N.S.
RDF (120:60:40)			6313	7468	77.2	63.3	188.3	47.3
STCR (82.81:55.62:56.50)			4306	5340	55.6	45.4	177.5	46.2
SSNM (130:37:41)			6569	7628	78.6	64.7	199.2	48.1
C. D. at (5%)			433.3	578.8	7.9	6.8	6.2	0.7
Significance			S	S	S	S	S	S

Treatment details:**A. Main plot: Hybrids (2)**

- H₁ HQPM-1
H₂ DHM-117

B. Sub plot: Density (2)

- D₁ 60x20 cm
D₂ 50x20 cm

C. Sub plot: Nutrient management (kg N:P₂O₅:K₂O/ha) (3)

- F₁ RDF (120:60:40)
F₂ STCR (82.81:55.62:56.50)
F₃ SSNM (130:37:41)

Table 68: Effects of planting and nutrients management practices on the performance of hybrid in kharif at Chhindwara.

Nutrient management	Spacing	Hybrids	Grain yield (kg/ha)	Straw yield (kg/ha)	Plants (000/ha)	Cobs ('000/ha)	Plant height (cm)
50% RDF	60x20 cm	DKC-7074	3951	11201	79.2	73.6	140.3
	50x20 cm		5431	19146	81.3	76.4	146.3
	60x20 cm	DKC-8101	4271	10313	64.6	61.8	148.3
	50x20 cm		5847	17604	66.7	63.2	149.7
100% RDF	60x20 cm	DKC-7074	4938	12701	81.3	78.5	146.3
	50x20 cm		6569	19632	81.9	78.5	151.7
	60x20 cm	DKC-8101	4472	11563	68.1	65.3	150.7
	50x20 cm		5965	19083	68.8	66.7	158.0
SSNM	60x20 cm	DKC-7074	5375	13201	79.9	77.8	161.7
	50x20 cm		6618	19549	81.9	78.5	167.3
	60x20 cm	DKC-8101	4722	12951	67.4	63.9	167.3
	50x20 cm		6444	18368	68.8	65.3	167.0
Mean of location			5383.7	15442.7	35.6	34.0	154.6
60:30:20			4875	14566	72.9	68.8	146.2
120:60:40			5486	15745	75.0	72.2	151.7
140:34:71			5790	16017	74.5	71.4	165.8
C. D. at (5%)			487.8	1078.7	1.4	1.3	8.6
Significance			S	S	N.S.	S	S
60x20 cm			5399	15836	81.1	77.3	147.1
50x20 cm			5166	14868	67.5	64.8	152.6
C. D. at (5%)			398.3	880.8	1.2	1.0	7.0
Significance			N.S.	S	S	S	N.S.
DKC-7074			4622	11988	73.4	70.1	152.4
DKC-8101			6146	18897	74.9	71.4	156.7
C. D. at (5%)			398.3	880.8	1.2	1.0	7.0
Significance			S	S	N.S.	N.S.	N.S.

Treatment details:**A. Main plot: Nutrient levels (N:P₂O₅:K₂O kg/ha) (3)**

- F₁ 50% RDF (60:30:20)
 F₂ 100% RDF (120:60:40)
 F₃ SSNM (140:34:71)

B. Sub plots: Plant population (2)

- D₁ Normal 60 x 20 cm (plant to plant = 83,000/ha plant)
 D₂ High 50 x 20 cm (plant to plant = 1,00,000/ha plant)

C. Sub-sub plots: Hybrids (2)

- H₁ DKC-7074
 H₂ DKC-8101

Nutrient management	Spacing	Hybrids	Days to 50% silking	Days to 50% brown Husk	No. of Bareness	Net returns (Rs/ha)	B:C Ratio
50% RDF	60x20 cm	DKC-7074	60.7	95.3	2.7	24730	2.09
	50x20 cm		64.7	104.7	2.3	42477	2.87
	60x20 cm	DKC-8101	59.3	95.0	1.3	27313	2.14
	50x20 cm		63.7	104.0	1.7	46226	2.93
100% RDF	60x20 cm	DKC-7074	60.0	95.7	1.3	36130	2.56
	50x20 cm		63.7	105.0	1.7	55710	3.41
	60x20 cm	DKC-8101	59.7	96.3	1.3	29297	2.20
	50x20 cm		62.7	106.0	1.0	47211	2.94
SSNM	60x20 cm	DKC-7074	59.7	95.0	1.0	40921	2.74
	50x20 cm		63.3	104.0	1.7	55835	3.37
	60x20 cm	DKC-8101	59.0	95.3	1.7	31839	2.29
	50x20 cm		62.3	104.7	1.7	52502	3.11
Mean of location			61.6	100.1	1.6	40849.2	2.72
60:30:20			62.1	99.8	2.0	35186	2.51
120:60:40			61.5	100.8	1.3	42087	2.78
140:34:71			61.1	99.8	1.5	45274	2.88
C. D. at (5%)			0.5	1.1	0.5	5853.2	0.25
Significance			S	N.S.	S	S	S
60x20 cm			62.1	100.2	1.8	41815	2.82
50x20 cm			61.3	100.6	1.3	37759	2.56
C. D. at (5%)			0.4	0.9	0.4	4779.2	0.20
Significance			S	N.S.	N.S.	N.S.	S
DKC-7074			59.7	95.4	1.6	31705	2.34
DKC-8101			63.4	104.7	1.7	49994	3.11
C. D. at (5%)			0.4	0.9	0.4	4779.2	0.20
Significance			S	S	N.S.	S	S

Table 69: Effect of planting density and nutrients management practices on the performance of hybrids in kharif season at Godhra.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Fodder yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)
GAYMH-1 (Early)	Normal 60x25 cm	RDF	1178	2578	56.4	34.0	156.7
		STCR	1267	3222	63.6	37.6	153.3
		SSNM	1711	2978	66.0	50.7	161.7
	High 60x20 cm	RDF	1111	2444	64.4	38.9	150.0
		STCR	2044	3467	64.0	53.6	153.3
		SSNM	1289	3933	65.6	42.0	155.0
HQPM-1 (Medium)	Normal 60x25 cm	RDF	3622	4889	63.3	47.6	151.7
		STCR	3800	4711	62.0	53.8	150.0
		SSNM	2511	5556	62.2	40.2	170.0
	High 60x20 cm	RDF	3178	4022	72.0	54.2	141.7
		STCR	3622	3844	66.4	51.6	148.3
		SSNM	2800	5400	64.2	46.0	143.3
Mean of location			2344.4	3920.4	96.3	68.8	152.9
GAYMH-1 (Early)			1433	3104	63.3	42.8	155.0
HQPM-1 (Medium)			3256	4737	65.0	48.9	150.8
C. D. at (5%)			391.2	435.3	6.0	6.7	11.1
Significance			S	S	N.S.	S	N.S.
Normal 60x25 cm			2348	3989	62.3	44.0	157.2
High 60x20 cm			2341	3852	66.1	47.7	148.6
C. D. at (5%)			391.2	435.3	6.0	6.7	11.1
Significance			N.S.	N.S.	N.S.	N.S.	N.S.
RDF			2272	3483	64.1	43.7	150.0
STCR			2683	3811	64.0	49.1	151.3
SSNM			2078	4467	64.5	44.7	157.5
C. D. at (5%)			479.1	533.1	7.4	8.2	13.6
Significance			S	S	N.S.	N.S.	N.S.

Treatment details:

A. Main plot: Hybrids (2)

H₁ GAYMH-1 (Early)

H₂ HQPM-1 (Medium)

B. Sub plot: Plant Density (2)

D₁ Normal 60x25 cm

D₂ High 60x20 cm

C. Sub-sub plots: Nutrient management (N:P₂O₅:K₂O kg/ha) (3)

F₁ RDF (120:60:00)

F₂ STCR (140:30:37)

F₃ SSNM (75:20:50)

Hybrids	Density	Nutrient management	Days to 50% silking	1000 seed weight (gm)	Disease MLB (1-5)	Disease CLS (1-5)	Disease TLB (1-5)
GAYMH-1 (Early)	Normal 60x25 cm	RDF	56.0	206.7	1.7	1.7	2.0
		STCR	53.7	220.0	1.7	2.0	2.0
		SSNM	55.0	200.0	1.0	2.3	2.0
	High 60x20 cm	RDF	52.3	186.7	1.0	2.3	2.0
		STCR	54.7	190.0	2.0	2.3	1.3
		SSNM	55.0	210.0	2.0	1.7	1.7
HQPM-1 (Medium)	Normal 60x25 cm	RDF	60.0	226.7	2.0	2.0	1.7
		STCR	59.0	203.3	1.0	2.0	1.7
		SSNM	60.7	193.3	1.0	1.7	1.7
	High 60x20 cm	RDF	60.0	230.0	1.7	2.0	2.0
		STCR	60.0	236.7	1.3	2.0	2.0
		SSNM	58.7	203.3	1.7	1.7	1.7
Mean of location			57.1	208.9	1.5	2.0	1.8
GAYMH-1 (Early)			54.4	202.2	1.6	2.1	1.8
HQPM-1 (Medium)			59.7	215.6	1.4	1.9	1.8
C. D. at (5%)			2.3	8.8	0.3	0.3	0.3
Significance			S	S	N.S.	N.S.	N.S.
Normal 60x25 cm			57.4	208.3	1.4	1.9	1.8
High 60x20 cm			56.8	209.4	1.6	2.0	1.8
C. D. at (5%)			2.3	8.8	0.3	0.3	0.3
Significance			N.S.	N.S.	N.S.	N.S.	N.S.
RDF			57.1	212.5	1.6	2.0	1.9
STCR			56.8	212.5	1.5	2.1	1.8
SSNM			57.3	201.7	1.4	1.8	1.8
C. D. at (5%)			2.9	10.8	0.3	0.3	0.3
Significance			N.S.	N.S.	N.S.	N.S.	N.S.

Table 70: Effect of planting density and nutrient management practices on the performance of QPM hybrids in kharif season at Udaipur.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Net returns (Rs/ha)	BC ratio
HQPM-1	High 50x20 cm	RDF	3923	5855	93.3	90.0	227.2	50.0	54.8	31636	1.4
		SSNM	4433	6633	93.3	90.0	231.7	49.0	54.0	38544	1.7
		STCR	4925	7366	93.3	90.0	238.8	49.0	54.0	42575	1.7
		GS	3740	5578	93.3	90.0	225.8	50.0	55.0	29167	1.3
	Normal 60x20 cm	RDF	3535	5465	76.7	74.7	219.5	50.0	55.0	26718	1.2
		SSNM	4043	6254	76.7	74.8	222.6	49.3	54.3	33609	1.5
		STCR	4530	7009	77.0	75.0	230.5	49.0	54.0	37607	1.5
		GS	3330	5109	76.7	75.0	217.7	50.0	55.0	23885	1.1
Pratap QPM-1	High 50x20 cm	RDF	4390	6548	93.7	90.0	229.6	47.0	52.0	38077	1.7
		SSNM	4928	7349	93.5	90.2	232.5	46.0	50.5	45342	2.0
		STCR	5435	8127	93.3	90.0	240.6	44.3	49.3	49609	2.0
		GS	4335	6438	93.3	90.0	227.4	47.3	52.3	37340	1.7
	Normal 60x20 cm	RDF	3960	6115	76.5	75.0	222.2	47.0	52.0	32598	1.5
		SSNM	4443	6818	76.5	75.0	226.7	46.0	51.0	39085	1.7
		STCR	4905	7546	76.8	73.0	234.5	46.0	51.0	42752	1.7
		GS	3730	5782	76.5	74.7	219.5	44.8	49.8	29492	1.3
Mean of location			4286.4	6499.4	127.5	123.5	227.9	47.8	52.7	36127.2	1.6
HQPM-1			4057	6159	85.0	82.4	226.7	49.5	54.5	32968	1.4
Pratap QPM-1			4516	6840	85.0	82.2	229.1	46.0	51.0	39287	1.7
C. D. at (5%)			120.7	190.5	2.1	2.6	3.8	1.2	1.3	1663.7	0.1
Significance			S	S	N.S.	N.S.	N.S.	S	S	S	S
High 50x20 cm			4513.4	6736.7	93.4	90.0	231.7	47.8	52.7	39036.2	1.7
Normal 60x20 cm			4059.4	6262.2	76.7	74.6	224.1	47.8	52.8	33218.2	1.4
C. D. at (5%)			120.7	190.5	2.1	2.6	3.8	1.2	1.3	1663.7	0.1
Significance			S	S	S	S	S	N.S.	N.S.	S	S
RDF			3952	5996	85.0	82.4	224.6	48.5	53.4	32257	1.4
SSNM			4461	6763	85.0	82.5	228.4	47.6	52.4	39145	1.7
STCR			4949	7512	85.1	82.0	236.1	47.1	52.1	43135	1.7
GS			3784	5727	85.0	82.4	222.6	48.0	53.0	29971	1.3
C. D. at (5%)			170.7	269.4	2.9	3.7	5.4	1.6	1.8	2352.8	0.1
Significance			S	S	N.S.	N.S.	S	N.S.	N.S.	S	S

Treatment details:

A. Main plot: QPM Hybrids (2)

H₁ HQPM-1

H₂ Pratap QPM-1

B. Sub plot: Plant Density (2)

D₁ Normal density (83 thousand plant/ha-60x20 cm)

D₂ High density (1,00,000 plants/ha- 50x20 cm)

C. Sub-sub Plots: Nutrient management (N:P₂O₅:K₂O kg/ha) (4)

F₁ RDF

F₂ SSNM

F₃ STCR

F₄ Green Seeker based (GS)

Table 71: Behavior of Maize genotypes under changing rainfall pattern at Kashmir.

Hybrids	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
SMC-4	4800	12633	81.3	81.3	234.7	74.3	79.7
SMC-5	4950	11583	81.0	81.0	227.0	80.7	85.7
SMC-6	5183	15267	81.5	81.5	236.3	75.7	82.3
SMC-7	4917	14067	80.5	80.5	237.0	72.3	77.0
C6	5217	15067	81.7	81.7	245.3	78.3	83.7
C8	5567	17450	79.5	79.5	258.3	88.7	93.7
C14	4550	14167	81.3	81.3	236.0	81.3	86.3
C15	6133	16533	79.0	79.0	239.0	68.7	74.3
Super-1	4583	13433	81.3	81.3	241.3	86.3	91.3
Mean	5100.0	14466.7	80.8	80.8	239.4	78.5	83.8
CD	631.0	1959.2	3.7	3.7	9.0	4.3	5.2
CV (%)	7.1	7.8	2.7	2.7	2.2	3.1	3.6
Significance	S	S	N.S.	N.S.	S	S	S

Hybrids	N uptake by maize (kg/ha)	P uptake by maize (kg/ha)	K uptake by maize (kg/ha)	Root length (cm)	Root: Shoot ratio	Root biomass (kg/ha)
SMC-4	152.2	21.6	162.2	31.0	0.4	6183
SMC-5	141.1	22.7	157.1	34.3	0.5	7583
SMC-6	151.9	21.4	160.8	37.3	0.4	7742
SMC-7	147.0	20.6	154.9	30.3	0.5	6892
C6	144.4	21.5	160.5	38.7	0.4	8275
C8	146.5	20.9	153.9	41.7	0.4	9200
C14	154.2	21.8	159.0	25.3	0.4	3900
C15	153.0	20.7	153.0	40.3	0.4	8783
Super-1	149.4	21.2	148.7	27.0	0.4	4708
Mean	148.9	21.4	156.7	34.0	0.4	7029.6
CD	5.9	2.2	6.6	4.5	0.1	1824.8
CV (%)	2.3	6.0	2.4	7.6	7.9	15.0
Significance	S	N.S.	S	S	S	S

Table 72: Weed management strategies for diverse weed flora in maize based cropping systems at Arbhavi.

Treatment	Grain yield (kg/ha)	Cob yield (kg/ha)	Fodder yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Cob length (cm)	Cob girth (cm)	Grains per row	Grain rows per cob
T ₁	6439	8208	5861	50.7	51.0	170.0	14.1	4.5	33.4	14.1
T ₂	6216	7861	6444	54.0	52.9	168.3	14.4	4.7	33.1	14.5
T ₃	6487	8083	6222	57.6	52.1	192.5	14.8	4.6	34.6	15.1
T ₄	5351	6764	5292	51.1	49.4	184.3	12.8	4.5	30.6	14.5
T ₅	5713	7333	6111	55.4	57.2	191.7	14.7	4.9	34.4	15.1
T ₆	6766	8389	5111	58.9	59.9	203.5	13.7	4.8	33.3	15.2
T ₇	6911	8750	5861	54.3	52.6	192.5	12.9	4.5	30.1	15.5
T ₈	4814	6250	4917	54.3	52.9	201.6	12.7	4.5	30.6	14.0
T ₉	6708	8611	7000	50.3	53.2	194.2	14.3	4.7	33.9	15.3
T ₁₀	6716	8472	6833	54.3	55.4	185.7	13.3	4.5	32.8	15.1
T ₁₁	7068	8778	6778	48.8	52.4	172.5	12.6	4.5	31.1	14.5
T ₁₂	7096	9167	6431	56.5	54.2	169.3	13.1	4.8	31.2	14.5
Mean	6357.1	8055.6	6071.8	53.9	53.6	185.5	13.6	4.6	32.4	14.8
CD	803.0	905.1	944.4	7.7	8.4	30.1	1.8	0.3	4.5	1.0
CV (%)	7.5	6.6	9.2	8.5	9.2	9.6	8.0	4.1	8.1	4.1
Significance	S	S	S	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.

Treatment	Net profit (Rs/ha)	BC ratio	Monocot weed numbers per m ²	Dicot weed numbers per m ²	Total weed numbers per m ²	Monocots weed dry weight per m ²	Dicots weed dry weight per m ²	Total weed dry weight per m ²	weed dry weight per m ²
T ₁	41903	2.4	7.7	28.0	35.7	6.7	17.0	23.7	0.8
T ₂	39483	2.4	16.3	74.7	91.0	23.0	19.0	42.0	0.6
T ₃	43953	2.6	28.0	21.3	49.3	18.3	21.7	40.0	0.9
T ₄	28950	2.0	29.0	47.3	76.3	13.7	10.3	24.0	1.8
T ₅	34447	2.2	14.7	42.3	57.0	9.7	18.0	27.7	1.7
T ₆	44497	2.5	17.7	50.3	68.0	12.0	22.0	34.0	1.0
T ₇	43610	2.3	29.3	46.7	76.0	10.3	17.7	28.0	1.1
T ₈	25547	1.9	52.0	69.0	121.0	26.3	30.0	56.3	2.1
T ₉	44123	2.5	29.3	29.7	59.0	9.7	14.0	23.7	0.8
T ₁₀	44233	2.5	14.0	38.3	52.3	10.0	18.0	28.0	0.7
T ₁₁	47708	2.6	22.0	28.0	50.0	8.3	20.0	28.3	0.8
T ₁₂	48038	2.6	7.7	43.3	51.0	9.3	7.3	16.7	0.7
Mean	40541.1	2.4	22.3	43.3	65.6	13.1	17.9	31.0	1.1
CD	8834.6	0.3	20.5	28.4	39.7	7.1	10.2	10.9	0.4
CV (%)	12.9	7.4	54.2	38.7	35.7	31.9	33.8	20.7	22.9
Significance	S	S	S	S	S	S	S	S	S

Treatment details are on next page...

Cont....

Treatment details:

1. Atrazine 1.0 kg a.i./ha PE (as a national check)
2. Atrazine 1.0 kg a.i./ha at 15-20 DAS
3. Pendimethalin 1.0 kg a.i./ha as PE
4. Organic mulch @ 6 t/ha
5. Maize+ cover crop (soybean 2 rows)
6. One hand weeding at 20 DAS
7. Two hand weeding at 20 & 40 DAS
8. Weedy check
9. Atrazine 1.0 kg a.i./ha PE + 1 Hoeing at 20-25 DAS
10. Pendimethalin 1.0 kg a.i./ha as PE + 1 Hoeing at 20-25 DAS

Table 73: Evaluation of interactive effect of fertility level, plant density and different maturity cultivars on productivity and profitability of maize at Ambikapur.

Nutrient management	Geno-types	Spacing	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs (000/ha)	Plant height (cm)	Days to 50% silking	Barrenness (%)	Net return (Rs./ha)	BC ratio
120:60:40	Bisco Kohinoor	50x20 cm	4639	7141	95.4	93.2	217.7	50.3	2.3	35673	1.54
		60x20 cm	4873	7762	78.2	76.0	213.6	50.7	2.9	38397	1.66
		70x20 cm	5254	8354	64.0	61.5	211.7	50.3	3.9	43142	1.86
	S-6304	50x20 cm	4832	7310	97.1	94.9	228.1	51.7	2.3	37666	1.62
		60x20 cm	6683	10626	79.4	76.4	223.2	51.0	3.9	61097	2.63
		70x20 cm	7336	11665	64.0	62.1	207.6	51.0	3.0	69278	2.99
	CK-30	50x20 cm	5910	9054	95.8	93.6	265.0	51.7	2.3	51406	2.22
		60x20 cm	6656	10583	79.2	77.2	254.8	53.3	2.4	60890	2.62
		70x20 cm	6762	10751	64.2	62.2	247.1	53.0	3.0	62215	2.68
200:60:80	Bisco Kohinoor	50x20 cm	5703	8787	93.8	92.1	240.4	50.3	1.8	46232	1.71
		60x20 cm	6427	10218	80.3	77.8	238.2	52.3	3.1	55764	2.06
		70x20 cm	7570	12036	64.0	61.3	237.3	52.0	4.4	68922	2.54
	S-6304	50x20 cm	6258	9834	94.9	91.8	255.2	52.7	3.2	51875	1.91
		60x20 cm	6979	11097	80.1	77.9	256.9	53.3	2.8	61000	2.25
		70x20 cm	7075	10895	63.8	61.5	258.9	53.0	3.5	62022	2.29
	CK-30	50x20 cm	7116	11314	93.8	91.8	282.6	52.7	2.1	62827	2.32
		60x20 cm	7790	12387	80.0	78.1	273.3	53.0	2.4	71013	2.62
		70x20 cm	7899	12413	64.3	62.4	273.8	54.3	3.0	72431	2.67
Mean of location			6431.1	10123.6	79.6	77.3	243.6	52.0	2.9	56213.9	2.23
120:60:40			5883	9249	79.7	77.5	229.9	51.4	2.9	51085	2.20
200:60:80			6980	10998	79.4	77.2	257.4	52.6	2.9	61343	2.26
C. D. at (5%)			316.9	491.5	0.8	1.0	5.5	0.5	0.5	3921.0	0.16
Significance			S	S	N.S.	N.S.	S	S	N.S.	S	N.S.
Bisco Kohinoor			5744	9050	79.3	77.0	226.5	51.0	3.1	48022	1.89
S-6304			6527	10238	79.9	77.4	238.3	52.1	3.1	57156	2.28
CK-30			7022	11083	79.5	77.5	266.1	53.0	2.6	63464	2.52
C. D. at (5%)			388.1	601.9	1.0	1.2	6.7	0.6	0.6	4802.2	0.19
Significance			S	S	N.S.	N.S.	S	S	N.S.	S	S
50x20 cm			5743	8906	95.1	92.9	248.2	51.6	2.3	47613	1.89
60x20 cm			6568	10446	79.5	77.2	243.3	52.3	2.9	58027	2.31
70x20 cm			6983	11019	64.1	61.8	239.4	52.3	3.5	63002	2.51
C. D. at (5%)			388.1	601.9	1.0	1.2	6.7	0.6	0.6	4802.2	0.19
Significance			S	S	S	S	S	S	S	S	S

Treatment details:

A. Main plot: Fertility level (2)

F₁ 120:60:40

F₂ 200:60:80

B. Sub plot: Different maturity group (3)

V₁ Bisco Kohinoor (Early)

V₂ S 6304 (Medium)

V₃ CK 30 (Late)

C. Sub-sub plots: Spacing (3)

D₁ 50x20 cm

D₂ 60x20 cm

D₃ 70x20 cm

Table 74: Performance of local maize genotype under varying fertility level (Station trial) at Udaipur.

Germ-plasm	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Shelling (%)	Days to 50% tasseling	Days to 50% silking
EH 263	100:30:30	3923	6023	56.4	55.0	241.3	77.6	44.7	48.7
EH 2212		3027	4590	54.0	49.4	254.3	76.3	46.0	50.0
EH 1974		4527	6947	56.0	53.9	259.0	77.3	50.0	54.0
Pra. CH-6		3430	5690	55.3	52.4	315.0	78.3	50.0	54.0
EHQ 16		4033	5803	57.3	56.1	258.3	79.4	46.0	50.0
EH 263	125:40:40	4333	6613	56.7	55.4	245.0	79.3	45.0	49.0
EH 2212		3373	5117	54.0	49.3	258.7	77.3	46.0	50.0
EH 1974		4920	7507	56.0	53.9	264.3	78.3	50.0	54.0
Pra. CH-6		3923	6493	55.3	52.6	320.3	79.4	50.0	54.0
EHQ 16		4433	6757	57.1	56.1	262.7	80.3	46.3	50.0
EH 263	150:50:50	4407	6710	57.3	56.1	246.0	79.3	44.0	48.0
EH 2212		3550	5353	53.8	49.3	260.7	78.2	45.0	49.0
EH 1974		5020	7557	56.0	53.7	263.7	78.6	49.0	53.0
Pra. CH-6		4050	6693	55.3	52.6	321.0	80.3	49.0	53.0
EHQ 16		3537	5350	57.3	56.1	265.0	81.5	45.0	49.7
Mean of location		4032.4	6213.6	55.9	53.5	269.0	78.8	47.1	51.1
C.D. at 5 (%)		680.6	1063.1	3.3	4.3	28.5	7.6	3.1	3.4
F (5%)		s	s	n.s.	s	s	n.s.	s	s
EH 263		3826	5853	55.5	52.8	251.6	77.1	46.9	50.9
EH 2212		3932	6036	56.4	54.6	272.8	79.0	47.0	51.0
EH 1974		4072	6372	55.1	51.9	281.1	78.3	48.7	52.7
Pra. CH-6		4130	6273	56.1	53.8	256.4	79.3	45.1	49.0
EHQ 16		4202	6533	56.2	54.1	283.2	80.1	47.7	51.9
C.D. at 5 (%)		392.9	613.8	1.9	2.5	16.5	4.4	1.8	2.0
F (5%)		n.s.	n.s.	n.s.	n.s.	s	n.s.	s	s
100:30:30		4036	6229	55.8	53.3	268.3	78.4	47.2	51.1
125:40:40		4087	6261	56.0	53.6	268.8	78.7	47.0	51.0
150:50:50		3974	6151	55.8	53.5	270.0	79.1	47.0	51.1
C.D. at 5 (%)		304.4	475.4	1.5	1.9	12.8	3.4	1.4	1.5
C.V. (%)		10.1	10.2	3.5	4.8	6.3	5.8	3.9	4.0
F (5%)		n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

Treatment details:**A. Main plot: Germplasm (5)**

- G₁ EH 263
G₂ EH 2212
G₃ EH 1974
G₄ Pra. CH-6
G₅ EHQ 16

B. Sub plot: Nutrient management (kg NPK/ha) (3)

- F₁ 100:30:30
F₂ 125:40:40
F₃ 150:50:50

Table 75: Performance of fodder variety “Pratap Chari-6” under varying fertility levels and plant per row spacing (Station trial) at Udaipur.

Nutrient level	Spacing	Green fodder yield (kg/ha)	Net returns (Rs/ha)	B:C ratio
90:30	30x25 cm	24077	29168	1.54
	30x20 cm	25057	30968	1.62
	30x15 cm	26067	32828	1.70
	30x10 cm	26250	33035	1.70
110:40	30x25 cm	28047	36454	1.86
	30x20 cm	29050	38301	1.93
	30x15 cm	30030	43040	2.53
	30x10 cm	30080	40041	1.99
130:50	30x25 cm	30183	40072	1.97
	30x20 cm	31213	41972	2.05
	30x15 cm	32217	43718	2.11
	30x10 cm	32513	44252	2.13
150:60	30x25 cm	30430	39915	1.91
	30x20 cm	31307	41508	1.97
	30x15 cm	32497	43728	2.06
	30x10 cm	32547	43668	2.04
Mean of location		29472.7	38916.9	1.94
C.D. at 5 (%)		3451.9	6903.7	0.34
F (5%)		n.s.	n.s.	n.s.
90:30		25363	31500	1.64
110:40		29302	39459	2.08
130:50		31532	42503	2.07
150:60		31695	42205	1.99
C.D. at 5 (%)		1725.9	3451.9	0.17
F (5%)		s	s	s
30x25 cm		28184	36402	1.82
30x20 cm		29157	38187	1.89
30x15 cm		30203	40829	2.10
30x10 cm		30348	40249	1.96
C.D. at 5 (%)		1725.9	3451.9	0.17
C.V. (%)		7.0	10.6	10.52
F (5%)		n.s.	n.s.	s

Treatment details:

A. Main plot: Nutrient management (kg N:P₂O₅/ha) (4)

F₁ 90:30 F₃ 130:50
F₂ 110:40 F₄ 150:60

B. Sub plot: Spacing/ Plants/ha (4)

D₁ 30x25 cm (1.33 lac plants/ha)
D₂ 30x20 cm (1.66 lac plants/ha)
D₃ 30x15 cm (2.22 lac plants/ha)
D₄ 30x10 cm (3.33 lac plants/ha)

Table 76: Screening of genotypes against water stress at Dholi.

Variety	Grain yield (kg/plot) (Normal)	Grain yield (kg/plot) (Seedling)	Grain yield (kg/plot) (Knee high)	Plant height (cm) (Normal)	Plant height (cm) (Seedling)	Plant height (cm) (Knee high)	Cob position (cm) (Normal)	Cob position (cm) (Seedling)	Cob position (cm) (Knee high)
PMH 1	3.65	0.51	1.70	165.0	86.5	132.7	66.0	34.5	39.3
HM 4	2.11	0.00	1.81	146.3	0.0	121.7	70.5	0.0	42.7
HM 11	2.05	0.00	1.44	142.3	0.0	131.0	68.0	0.0	39.0
HM 9	2.53	0.00	1.32	145.0	0.0	134.7	43.1	0.0	18.3
HQPM 5	4.51	0.00	1.82	152.3	0.0	128.0	66.0	0.0	48.3
HQPM 1	4.38	0.00	1.87	144.3	0.0	126.7	55.0	0.0	29.3
Prakash	3.27	0.00	1.00	139.3	0.0	119.7	50.0	0.0	36.3
Vivek QPM 9	3.51	0.00	1.58	136.7	0.0	125.0	62.7	0.0	34.7
Vivek Hybrid 21	2.49	0.84	1.09	137.7	108.7	124.0	39.3	26.9	32.3
Seedtech 2324	3.21	0.00	1.50	146.0	0.0	108.7	67.3	0.0	35.7
Vivek Hybrid 43	2.63	0.46	1.21	114.3	83.3	101.7	42.0	26.4	37.7
PMH 4	2.30	0.00	1.31	137.7	0.0	122.0	51.3	0.0	47.0
HM 10	3.60	0.00	1.60	151.7	0.0	117.7	51.7	0.0	31.7
HQPM 4	4.33	0.61	1.81	154.3	97.3	127.3	61.0	25.7	45.7
Bio 9681	2.49	0.00	1.26	143.3	0.0	118.0	43.0	0.0	33.7
Mean	3.1	0.2	1.5	143.8	25.1	122.6	55.8	7.6	36.8
CD	0.4	0.0	0.1	12.5	2.8	15.9	10.3	1.6	15.3
CV (%)	8.3	14.7	2.1	5.2	6.7	7.7	11.0	12.3	24.9
Significance	S	S	S	S	S	S	S	S	S

Variety	Test weight (Normal)	Test weight (Seedling)	Test weight (Knee high)	ASI (Normal)	ASI (Seedling)	ASI (Knee high)	Survival (%) (Normal)	Survival (%) (Seedling)	Survival (%) (Knee high)
PMH 1	227.9	163.4	198.3	2.7	15.7	9.7	93.3	15.3	72.0
HM 4	214.9	0.0	187.6	4.0	0.0	9.0	86.7	0.0	65.7
HM 11	199.0	0.0	193.9	4.0	0.0	8.3	84.3	0.0	70.0
HM 9	240.3	0.0	215.4	3.7	0.0	7.3	88.7	0.0	62.3
HQPM 5	205.8	0.0	202.8	2.0	0.0	6.7	87.7	0.0	59.7
HQPM 1	208.5	0.0	206.1	2.3	0.0	7.7	86.7	0.0	66.7
Prakash	210.2	0.0	179.5	3.3	0.0	9.3	86.7	0.0	62.3
Vivek QPM 9	193.5	0.0	156.4	2.7	0.0	7.7	96.7	0.0	60.0
Vivek Hybrid 21	217.1	125.0	136.2	4.3	12.7	9.7	96.7	19.7	56.7
Seedtech 2324	226.0	0.0	165.2	3.3	0.0	7.3	93.3	0.0	60.0
Vivek Hybrid 43	223.3	200.2	216.5	3.7	18.7	11.0	90.0	14.0	60.0
PMH 4	199.9	0.0	175.7	4.0	0.0	9.0	97.7	0.0	57.7
HM 10	228.1	0.0	215.2	2.7	0.0	9.3	92.3	0.0	59.0
HQPM 4	217.0	176.7	200.6	2.3	11.0	5.7	92.3	16.7	66.7
Bio 9681	237.8	0.0	218.3	3.7	0.0	7.7	83.3	0.0	56.7
Mean	216.6	44.4	191.2	3.2	3.9	8.4	90.4	4.4	62.4
CD	18.3	3.1	18.0	0.9	0.6	1.0	7.3	1.2	9.2
CV (%)	5.1	4.2	5.6	15.7	9.3	6.8	4.8	17.0	8.8
Significance	S	S	S	S	S	S	S	S	S

Cont....

Variety	Canopy temperature (°C) (Normal)	Canopy temperature (°C) (Seedling)	Canopy temperature (°C) (Knee high)	SPAD (Normal)	SPAD (Seedling)	SPAD (Knee high)	LCC (Normal)	LCC (Seedling)	LCC (Knee high)
PMH 1	35.8	28.3	31.0	44.0	25.1	31.5	4.00	1.33	1.00
HM 4	32.5	0.0	30.4	36.2	0.0	31.9	3.00	0.00	2.00
HM 11	34.8	0.0	32.3	34.3	0.0	36.5	4.00	0.00	3.00
HM 9	35.2	0.0	32.8	38.6	0.0	28.4	4.00	0.00	1.00
HQPM 5	35.2	0.0	31.5	47.3	0.0	40.1	4.00	0.00	3.00
HQPM 1	35.8	0.0	30.1	46.7	0.0	37.3	4.00	0.00	2.00
Prakash	34.2	0.0	33.0	41.5	0.0	34.9	3.00	0.00	2.00
Vivek QPM 9	33.9	0.0	30.5	42.0	0.0	39.4	3.00	0.00	3.00
Vivek Hybrid 21	33.7	29.7	31.2	35.6	28.3	33.2	3.00	3.00	2.00
Seedtech 2324	34.7	0.0	31.0	41.0	0.0	38.1	4.00	0.00	2.00
Vivek Hybrid 43	33.7	27.2	31.8	39.4	23.0	27.0	3.00	1.67	1.00
PMH 4	32.1	0.0	30.0	34.9	0.0	35.3	3.00	0.00	3.00
HM 10	34.4	0.0	31.3	43.9	0.0	30.9	4.00	0.00	2.00
HQPM 4	35.7	28.9	32.1	45.3	34.1	41.5	4.00	3.33	3.00
Bio 9681	33.6	0.0	31.7	37.3	0.0	29.2	4.00	0.00	2.00
Mean	34.4	7.6	31.4	40.5	7.4	34.3	3.60	0.62	2.13
CD	0.3	0.1	0.3	0.0	0.0	0.2	0.43	0.44	0.43
CV (%)	0.5	0.4	0.5	0.1	0.3	0.4	7.17	42.47	12.10
Significance	S	S	S	S	S	S	S	S	S

Variety	Stover yield (kg/plot) (Seedling)	Stover yield (kg/plot) (Knee high)	Leaf senescence (Normal)	Leaf senescence (Seedling)	Leaf senescence (Knee high)	LAI (Normal)	LAI (Seedling)	LAI (Knee high)
PMH 1	0.13	0.64	1.33	4.33	5.00	6.21	2.87	3.48
HM 4	0.00	0.46	1.67	0.00	5.00	3.06	0.00	3.60
HM 11	0.00	0.41	1.67	0.00	4.00	3.83	0.00	2.90
HM 9	0.00	0.45	1.33	0.00	5.33	4.39	0.00	2.77
HQPM 5	0.00	0.83	1.00	0.00	3.67	6.81	0.00	3.85
HQPM 1	0.00	0.52	1.33	0.00	4.33	6.60	0.00	3.99
Prakash	0.00	0.48	1.33	0.00	4.67	5.30	0.00	2.10
Vivek QPM 9	0.00	1.04	1.67	0.00	4.00	5.59	0.00	3.19
Vivek Hybrid 21	0.47	0.62	2.00	3.33	5.00	3.59	2.56	2.12
Seedtech 2324	0.00	0.77	1.67	0.00	4.00	5.04	0.00	3.05
Vivek Hybrid 43	0.08	0.35	1.67	5.33	5.67	4.71	2.43	2.25
PMH 4	0.00	0.43	1.67	0.00	4.33	3.32	0.00	2.51
HM 10	0.00	0.41	1.33	0.00	5.33	5.93	0.00	3.32
HQPM 4	0.29	0.80	1.33	3.00	3.33	6.48	3.17	3.70
Bio 9681	0.00	0.89	1.67	0.00	5.67	4.14	0.00	2.40
Mean	0.06	0.61	1.51	1.07	4.62	5.00	0.74	3.01
CD	0.03	0.05	0.89	0.43	0.96	0.09	0.03	0.06
CV (%)	26.00	5.08	35.27	24.21	12.37	1.12	2.14	1.14
Significance	S	S	N.S.	S	S	S	S	S

Pathology

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Abbreviations used:

1. ALMO	Almora	9. HYDE	Hyderabad
2. ARBH	Arbhavi	10. KARN	Kamal
3. BAJA	Bajaura	11. LUDH	Ludhiana
4. BHUB	Bhubaneswar	12. MAND	Mandya
5. COIM	Coimbatore	13. MEDI	Midnapur (Vol. Centre)
6. DELH	Delhi	14. PANT	Pantnagar
7. DHAU	Dhaulakuan	15. UDAI	Udaipur
8. DHOL	Dholi		
1. BLSB	Banded leaf and sheath blight	8. MLB	Maydis leaf blight
2. BSDM	Brown stripe downy mildew	9. P. rust	Polysora rust
3. BSR	Bacterial stalk rot	10. PFSR	Post flowering stalk rot
4. C. rot	Charcoal rot	11. RDM	Rajasthan downy mildew
5. C. rust	Common rust	12. SDM	Sorghum downy mildew
6. CLS	Curvularia leaf spot	13. TLB	Turcicum leaf blight
7. FSR	Fusarium stalk rot		
1. FS	Foliar spray	5. MS	Moderately Susceptible
2. MDR	Multiple disease resistance	6. R	Resistant
3. MPT	Maize Pathology Trial	7. S	Susceptible
4. MR	Moderately Resistant	8. ST	Seed treat meant

Executive Summary

The programme for *Kharif* 2014 Pathology trials was chalked out in the 57th Annual Maize Workshop held at MPUAT, Udaipur. A total of 18 trials (17 in *Kharif* 2014 and one in *Rabi* 2013-14) of Maize Pathology were conducted under sick plot / artificially created epiphytotics at identified hot spot locations namely Bajaura, Almora, Dhaulakuan, Barapani (AVTs only) in Zone I; Ludhiana (*Rabi & Kharif*), Delhi, Karnal, Pantnagar in Zone II; Dholi (*Rabi & Kharif*), Bhubaneswar, Midanapur (*Rabi & Kharif*) in Zone III; Arbhavi (*Rabi & Kharif*), Coimbatore (*Rabi & Kharif*), Mandya (*Rabi & Kharif*), Hyderabad (*Rabi & Kharif*) in Zone IV and Udaipur in Zone V. A total of 551 hybrids in both seasons and 231 inbred lines (*Kharif* only) were screened against Maydis leaf blight (MLB), Turicum leaf blight (TLB), Banded leaf and sheath blight (BLSB), Sorghum downy mildew (SDM), Rajasthan downy mildew (RDM), Curvularia leaf spot (CLS), Post-flowering stalk rots (PFSR), Common rust, Polysora rust, Bacterial stalk rot (BSR) and Cyst nematode. Yield loss trials were conducted at Almora and Dhaulakuan centres. Trap nursery trial for disease occurrence was conducted at Dhaulakuan, Almora, Pantnagar, Dholi, Karnal, Mandya, Udaipur, Pantnagar, Delhi, Ludhiana, Coimbatore, Arbhavi, Bajaura, and Bhubaneswar centres. In addition, disease surveys were conducted at farmers' fields in Himachal Pradesh and Uttarakhand (Zone I), Punjab (Zone II), Odisha (Zone III), Karnataka (Zone IV), Rajasthan and Gujarat (Zone V) to assess overall disease scenario during the crop season. Study on management of nematode and its interaction with PFSR, termite and stem borer in maize was taken up by Udaipur centre. Disease management trials for development of integrated disease management (IDM) module in maize were conducted at Bajaura, Ludhiana, Karnal, Delhi, Pantnagar, Dhaulakuan, Bhubaneswar, Godhra, Almora, Arbhavi, Udaipur and Mandya. The summarized results of various AICRPM Pathology trials conducted during *Kharif* 2014 and *Rabi* 2013-14 at respective centres are presented below:

A. *Kharif* 2014

MPT 1. Disease screening of IVT (late maturity) maize hybrids (Trial 61)

A total of 96 genotypes out of 120 tested were resistant/ moderately resistant to different diseases (Table 1). Promising ones with multiple disease resistance (MDR) are given below:

S. No.	Genotype	Resistant	Moderately resistant
1.	JH 13183	FSR, RDM	MLB, TLB, C.ROT, BSR, CLS
2.	MA-974	C.ROT, BSR, CLS	MLB, TLB
3.	IN 8602	C.ROT, RDM	MLB, TLB, BLSB, P.RUST, FSR, BSR, CLS
4.	PM 14105L	RDM, BSR, CLS	MLB, TLB, P.RUST, C.ROT, FSR
5.	NMH 1605	C.ROT, CLS	MLB, TLB, FSR, RDM
6.	ADV 0990293	TLB, BSR	C.RUST, C.ROT, FSR
7.	JH 13045	MLB, CLS	TLB, FSR, RDM, BSR

8.	CMH 12-667	MLB, BSR, CLS	TLB, BLSB, C.RUST, C.ROT, FSR, RDM
9.	Srikarn 3033	MLB, CLS	TLB, P.RUST, C.ROT
10.	DAS-MH-107	MLB, CLS	TLB, FSR, RDM, BSR
11.	AH 7005	MLB, CLS	TLB, C.ROT, FSR, BSR
12.	HKH 422	TLB, BSR, CLS	MLB, C.ROT, FSR
13.	HT 51412373	TLB, C.ROT	MLB, P.RUST, BSR, CLS
14.	Gin 02	RDM, CLS	MLB, TLB, C.ROT, FSR, BSR
15.	CMH 10-555	MLB, BSR	TLB, P.RUST, C.ROT, RDM, CLS
16.	IN 8570	C.ROT, RDM	MLB, TLB, BLSB, BSR, CLS
17.	JH 13282	C.ROT, BSR	MLB, TLB, CLS
18.	Super 1177	FSR, RDM	MLB, TLB, BLSB, P.RUST, CLS
19.	JH 12010	RDM, CLS	MLB, TLB, BLSB, C.ROT
20.	JH 13037	MLB, BSR	TLB, C.RUST, C.ROT, RDM, CLS
21.	BH 412096	BSR, CLS	MLB, TLB, BLSB, C.ROT
22.	BH 412141	RDM, CLS	MLB, TLB, C.RUST, C.ROT, FSR
23.	VNR 31862	RDM, BSR, CLS	MLB, TLB, C.ROT
24.	DMRH 1308	MLB, C.ROT	TLB, CLS
25.	DAS-MH-106	TLB, BSR	MLB, C.ROT, CLS
26.	JH 13278	C.ROT, BSR, CLS	MLB, TLB, FSR
27.	PM 14104L	C.ROT, BSR	MLB, TLB, FSR, CLS
28.	JH 13270	C.ROT, FSR, BSR	MLB, TLB, RDM, CLS
29.	IN 8569	MLB, C.ROT, FSR, RDM, CLS	TLB, BLSB
30.	HT 51412616	MLB, TLB, RDM, CLS	C.ROT, FSR
31.	KH-1408	MLB, TLB	C.ROT, FSR, RDM, BSR, CLS
32.	115-08-01	C.ROT, RDM	MLB, TLB, P.RUST, FSR, BSR, CLS
33.	JH 13248	C.ROT, FSR	MLB, RDM, BSR, CLS
34.	IN 8603	C.ROT, RDM, BSR	MLB, TLB, P.RUST, FSR, CLS
35.	CP.555	FSR, RDM	MLB, TLB, BLSB, C.ROT, BSR, CLS
36.	JH 13044	BSR, CLS	MLB, TLB, BLSB, C.ROT, FSR, SDM

37.	MAH-957	RDM, CLS	MLB, TLB, C.ROT, FSR, BSR
38.	DMH-7721	C.ROT, BSR	MLB, TLB, BLSB, FSR, RDM, CLS
39.	HT 51412607	MLB, C.ROT, RDM	TLB, P.RUST, FSR, BSR, CLS
40.	DMH-192	RDM, BSR, CLS	MLB, TLB, P.RUST, C.ROT, FSR
41.	Proline-2404	MLB, RDM, BSR, CLS	TLB, C.ROT
42.	CMH 12-671	RDM, BSR, CLS	MLB, TLB, C.ROT, FSR
43.	CMH 11-618	RDM, BSR	MLB, TLB, BLSB, C.ROT, FSR, BSR, CLS
44.	GPS -03	MLB, FSR, BSR	TLB, P.RUST, C.ROT, CLS
45.	IN 8902	RDM, BSR	MLB, TLB, C.ROT, FSR, CLS
46.	PM 14101L	MLB, C.ROT, RDM, BSR, CLS	TLB, C.RUST, FSR
47.	REH 2013-5	RDM, CLS	MLB, TLB, C.ROT, FSR
48.	DMRH 1416	C.ROT, FSR, CLS	MLB, TLB, BSR
49.	JH 12150	C.ROT, RDM, BSR, CLS	MLB, TLB, BLSB, FSR
50.	HKH 423	FSR, CLS	MLB, C.ROT, RDM, BSR
51.	VEH 14-1	MLB, BSR	TLB, BLSB, C.ROT, FSR, RDM, CLS
52.	ADV 1190384	RDM, BSR	MLB, TLB, P.RUST, C.ROT, CLS
53.	JH 13023	MLB, C.ROT, FSR, RDM, BSR, CLS	TLB
54.	IN 8903	RDM, BSR, CLS	MLB, TLB, P.RUST, C.ROT, FSR
55.	KH-2192	FSR, RDM	MLB, TLB, C.ROT, CLS
56.	DMRH 1409	FSR, BSR	MLB, TLB, BLSB, C.ROT, RDM, CLS
57.	PM 14102L	C.ROT, RDM, CLS	MLB, TLB, BLSB, FSR, BSR
58.	RMH-726	MLB, TLB, RDM, CLS	C.ROT, FSR, BSR
59.	PMH 1-C	MLB, C.ROT, FSR, RDM	TLB, BLSB, BSR, CLS
60.	PMH 3-C	C.ROT, FSR, RDM, CLS	MLB, TLB, BLSB, BSR
61.	Bio -9681-C	FSR, RDM, CLS	TLB, C.ROT
62.	HM 11-C	FSR, BSR	CLS

MPT 2. Disease screening of IVT (medium maturity) maize hybrids (Trial 62)

A total of 116 genotypes out of 129 tested were resistant/ moderately resistant to different diseases (Table 2). Promising ones with MDR are given below:

S. No.	Genotype	Resistant	Moderately resistant
1.	JH 13204	MLB, C.LROT, FSR	TLB, RDM, BSR, CLS
2.	JH 13172	C.ROT, FSR, RDM, BSR	TLB, TLB, C.RUST, CLS
3.	QMH-1025	MLB, FSR	TLB, BLSB, C.ROT, BSR, CLS
4.	DH 1411	FSR, CLS	MLB, TLB, C. ROT
5.	BH 412063	MLB, RDM	TLB, C. ROT, FSR, BSR, CLS
6.	PM 14106M	MLB, CLS	TLB, C.ROT, FSR, RDM, BSR
7.	DMRH 1416	FSR, RDM, CLS	MLB, TLB, C.ROT, BSR
8.	JH 13246	FSR, CLS	MLB, TLB, C.ROT, BSR
9.	JH 13139	FSR, BSR	MLB, TLB, C.RUST, C.ROT, CLS
10.	EH-2235	FSR, CLS	TLB, C.ROT, RDM
11.	HT 51412616	TLB, CLS	MLB, P. RUST, C.RUST, C.ROT, FSR, RDM, BSR
12.	JH 13114	MLB, RDM, CLS	TLB, C.ROT, FSR, BSR
13.	HT 51412373	TLB, C.ROT, RDM	MLB, P. RUST, C.RUST, FSR, CLS
14.	DH 1413	FSR, CLS	MLB,TLB, C.ROT
15.	NMH-3612	FSR, RDM, BSR	MLB,TLB, C. RUST, C.ROT, CLS
16.	DMRH 1417	C.ROT, FSR, BSR, CLS	MLB, TLB
17.	JH 13164	C.ROT, FSR	MLB,TLB, RDM, CLS
18.	BL 897	RDM, CLS	TLB, C.ROT, FSR
19.	MMH 4-13	MLB, FSR	TLB, C.ROT, RDM
20.	REH 2013-1	TLB, FSR	C.ROT, RDM, CLS
21.	BH 412120	FSR, CLS	MLB,TLB, C.ROT, BSR
22.	SriKARN 4689	FSR, RDM	MLB, TLB, C.ROT, BSR, CLS
23.	LMH 314	MLB, FSR, RDM	TLB, C.ROT, BSR, CLS
24.	JH 13054	FSR, RDM, CLS	MLB, TLB, C.ROT, BSR
25.	JH 13226	MLB, BSR	TLB, C.ROT, FSR, RDM, CLS

26.	TI 8261	FSR, RDM, CLS	MLB, TLB, C.ROT, BSR
27.	DH 1415	FSR, CLS	MLB, TLB, C.ROT, BSR
28.	HT 51412607	TLB, CLS	MLB, P. RUST, C.RUST, C.ROT, FSR, RDM
29.	JH 13117	MLB, FSR, RDM	TLB, C.ROT, BSR, CLS
30.	BH 412067	FSR,RDM, CLS	MLB, TLB
31.	HT 51412182	MLB, FSR, RDM, BSR	TLB, C.ROT, CLS
32.	CP.201	FSR, CLS	MLB, TLB, C.ROT, RDM, BSR
33.	LMH 114	TLB, FSR, RDM, CLS	MLB, C.ROT, BSR
34.	UDMH-101	FSR, CLS	TLB, C.ROT, RDM
35.	JH 13142	TLB, FSR, RDM	MLB, C.ROT, CLS
36.	Bio 719	MLB, CLS	TLB, C.ROT, FSR, RDM, BSR
37.	JH 13119	MLB, TLB, FSR, RDM	C.ROT, BSR, CLS
38.	DMRH- 12-110	MLB, FSR, CLS	TLB, C.ROT, RDM, BSR
39.	DMRH 1308	TLB, FSR, RDM, BSR, CLS	MLB, C.ROT
40.	SHIATS MS2	MLB, CLS	TLB, C.ROT, FSR, RDM
41.	DMRM 1402	FSR, RDM	MLB,TLB, C.ROT, BSR, CLS
42.	IAHM 2013-33	FSR, CLS	TLB, C.ROT
43.	AWLH 1	BSR, CLS	MLB, C.ROT, FSR, RDM
44.	MMH 3-13	FSR, BSR, CLS	MLB, TLB, RDM
45.	HKH 343	FSR, CLS	MLB, TLB, C.ROT, BSR
46.	RMH 796	MLB, CLS	TLB, C.ROT, FSR, RDM, BSR
47.	MMH 6-13	FSR,CLS	MLB, TLB, C.ROT
48.	CMH 12-665	RDM, BSR	MLB, TLB, C.ROT, CLS
49.	DMRH 1301	FSR, CLS	MLB, TLB, C.ROT
50.	HT 51412081	FSR,CLS	MLB, TLB, P.RUST, RDM
51.	NMH-3662	FSR, CLS	MLB,TLB, C.ROT, RDM, BSR
52.	UDMH-114	FSR, RDM	MLB,TLB, C.ROT, CLS
53.	JH 13121	MLB, FSR, BSR	TLB, C.ROT, RDM, CLS
54.	JH 13215	FSR, RDM	MLB,TLB, C.ROT, BSR
55.	JH 13122	C.ROT, FSR, BSR, CLS	MLB,TLB, RDM

56.	VEH 14-2	MLB, FSR	TLB, C. RUST
57.	IN 8401	FSR, BSR	MLB,TLB, C. RUST, C.ROT, CLS
58.	DH 1429	FSR, CLS	MLB, C.ROT, RDM, BSR
59.	JKMH 4848	FSR, RDM	-
60.	REH 2013-3	C.ROT, FSR, CLS	MLB,TLB, P.RUST, RDM, BSR
61.	IAHM 2013-26	FSR, CLS	MLB, C.ROT
62.	DMRH 1302	FSR, RDM	MLB,TLB, C.ROT, CLS
63.	BL 900	FSR, RDM	TLB, CLS
64.	DMRH 1418	MLB, FSR, RDM, CLS	TLB, BLSB, C.ROT, BSR
65.	KDMH 100-3	FSR, RDM	MLB,TLB, CLS
66.	CMH 11-584	C.ROT, FSR, RDM, BSR, CSL	MLB,TLB
67.	JH 13224	TLB, C.ROT, FSR, CLS	MLB, RDM, BSR
68.	CMH11-615	TLB, FSR, RDM	MLB, C.RUST, C.ROT, BSR, CLS
69.	HKH 344	MLB, TLB, FSR	C.ROT, RDM, BSR, CLS
70.	KMH 12-25	FSR, CLS	MLB, TLB
71.	LMH 214	C.ROT, FSR, BSR	MLB, TLB, BLSB, CLS
72.	BH 412064	FSR, RDM, CLS	MLB, TLB, C.ROT
73.	DH 1401	MLB, FSR	TLB, C.ROT, RDM, BSR, CLS
74.	PM 14107M	FSR, RDM, CLS	MLB, TLB, C.ROT, BSR
75.	BH 412062	C.ROT, CLS	MLB, FSR, RDM, BSR
76.	HM 10(C)	C.ROT, FSR	MLB,TLB, CLS
77.	Bio -9637(C)	MLB, RDM	TLB, C.ROT, CLS

MPT 3. Disease screening of IVT (early maturity) maize hybrids (Trial 63)

A total of 45 genotypes out of 51 tested were resistant/ moderately resistant to different diseases (Table 3). Promising ones with MDR are given below:

S. No.	Genotype	Resistant	Moderately resistant
1.	CMH 12-675	MLB, C. ROT, FSR, RDM	TLB, CLS
2.	FH 3704	FSR, CLS	MLB, C.ROT, RDM
3.	EH-2371	RDM, CLS	MLB, C.ROT, FSR

4.	LMH 614	FSR, CLS	MLB, TLB, C.ROT
5.	BH 412093	FSR, RDM	MLB, TLB, C. RUST,CLS
6.	CMH 12-697	BSR, CLS	MLB, TFSRLB, BLSB, C.ROT, RDM
7.	GYH-0656	FSR, CLS	MLB, C.ROT, RDM
8.	KMH 12-18	FSR, RDM, CLS	C. ROT
9.	AH-1321	FSR, RDM, CLS	MLB, TLB, BLSB, C.ROT
10.	CMH 10-527	MLB, C. ROT, FSR, RDM, CLS	TLB, BSR
11.	BH 412071	RDM, CLS	MLB, TLB, C.ROT, FSR
12.	JKMH 4025	MLB, FSR, CLS	TLB, C.ROT, RDM
13.	PM 14109E	FSR, CLS	MLB
14.	DH 290	FSR, CLS	MLB, C.ROT
15.	CMH 12-691	MLB, CLS	TLB, C. RUST, C.ROT, FSR, RDM
16.	AH-1318	FSR, CLS	MLB, RDM
17.	DAS-MH-502	MLB, CLS	C.ROT, FSR, RDM
18.	AH 5021	FSR, RDM	MLB, C.ROT, BSR, CLS
19.	FH 3695	FSR, RDM, CLS	MLB, TLB, C. RUST, C.ROT
20.	KDMH 100-1	RDM, CLS	MLB, C.ROT, FSR
21.	AH-1319	FSR, CLS	MLB, TLB, C.ROT
22.	CMH 10-552	MLB, FSR, CLS	TLB, C.ROT, RDM
23.	KMH 12-8	FSR, CLS	MLB, C.ROT
24.	OMH 11-1	FSR, CLS	TLB, C.ROT, RDM
25.	AH 7001	FSR, CLS	MLB, C.ROT, RDM
26.	K-26	FSR, CLS	MLB, TLB, C.ROT
27.	SAMH-221	FSR, RDM	MLB, TLB, C.ROT, CLS
28.	GWH-0330	FSR, CLS	RDM
29.	BH 412055	FSR, RDM, CLS	MLB, TLB, C.OT
30.	EH-2244	FSR, CLS	MLB, C.ROT, RDM
31.	PM 14110E	FSR, CLS	MLB, C.ROT
32.	Shalimaar Maize Com 7	FSR, CLS	MLB, C.ROT, RDM
33.	Shalimaar Maize Hybrid 2	FSR, CLS	C. RUST, C. ROT, RDM

MPT 4. Disease screening of IVT (extra early maturity) maize hybrids (Trial 64)

A total of 12 genotypes out of 13 tested were resistant /moderately resistant to different diseases (Table 4). Promising ones with MDR are given below:

S. No.	Genotype	Resistant	Moderately resistant
1.	EH-2236	FSR, CLS	MLB
2.	DH 287	FSR, RDM	MLB, C.ROT, CLS
3.	AH-1317	FSR, CLS	MLB, TLB, C.ROT, RDM
4.	Vivek Hybrid-43(C)	FSR, RDM, CLS	MLB, TLB, C.ROT

MPT 5. Disease screening of AVT I & AVT II (late maturity) maize hybrids (Trial 75)

A total of 26 genotypes out of 27 tested were resistant/ moderately resistant to different diseases (Table 5). Promising ones with MDR are given below:

S. No.	Genotype	Resistant	Moderately resistant
1.	VNR 31834	RDM, CLS	MLB, TLB, P.RUST, C.ROT, FSR, BSR
2.	X 35D601	FSR, RDM, CLS	MLB, TLB, P.RUST, C.ROT
3.	DKC 9133(IM9133)	FSR, RDM, CLS	MLB, TLB, C.ROT
4.	DKC 9141 (IM8539)	FSR, CLS	MLB, TLB, P.RUST, C.ROT, RDM,BSR
5.	HTMH 5108	FSR, CLS	MLB, TLB, P.RUST, C.ROT, RDM, BSR
6.	HTMH 5202	FSR, CLS	MLB, TLB, BLSB, C.ROT, RDM
7.	HTMH 5404	C.ROT, FSR	MLB, TLB, RDM, CLS
8.	RMH-972	C.ROT, FSR, CLS	MLB, TLB, BLSB
9.	SUPER GA-105	FSR, CLS	MLB, TLB, C.RUST, C.ROT, RDM
10.	VNR 31355	RDM, CLS	MLB, TLB, P.RUST, C.RUST, C.ROT , FSR
11.	Siri 4527	MLB, FSR, RDM, CLS	TLB, P.RUST, C.ROT
12.	JH 12247	MLB, FSR, CLS	TLB, C.ROT, RDM

13.	Bio 032 (BB032)	FSR, CLS	MLB, TLB, C.ROT, RDM
14.	CP.999	MLB, C.ROT, FSR, RDM, BSR, CLS	TLB
15.	DAS-MH-105	MLB, FSR, RDM, CLS	TLB, BLSB, P.RUST, C.ROT
16.	IM 8556	MLB, FSR, RDM, CLS	TLB, P.RUST, C.RUST, C.ROT
17.	JANA HIT	MLB, RDM, CLS	TLB, BLSB, P.RUST, FSR, BSR
18.	PRO-392	MLB, CLS	TLB, C. RUST, C.ROT, FSR, RDM
19.	NMH-1265	MLB, RDM, CLS	TLB, C.ROT, FSR, BSR
20.	Geo Primium Diamond	MLB, RDM, CLS	TLB, C.ROT, FSR
21.	PMH 1-C	MLB, C.ROT, FSR, RDM, CLS	TLB, BSR
22.	PMH 3-C	MLB, FSR, CLS	TLB, BLSB, C.ROT, BSR
23.	Bio-9681-C	FSR, RDM, CLS	MLB, TLB, C.ROT

MPT 6. Disease screening of AVT I & AVT II (medium maturity) maize hybrids (Trial 76)

All the 31 genotypes tested were resistant/ moderately resistant to different diseases (Table 6). Promising ones with MDR are given below:

S. No.	Genotype	Resistant	Moderately resistant
1.	LG 32.82	C.ROT, FSR, BSR	MLB, TLB, CLS
2.	CMH 10-547	FSR, RDM, CLS	MLB, TLB, P.RUST, C.ROT
3.	DKC 9144 (IM8478)	FSR, RDM, CLS	MLB, TLB, P.RUST, C.ROT, BSR
4.	DKC 9149 (IM8581)	FSR, RDM, CLS	MLB, TLB, P.RUST, C.RUST, C.ROT, BSR
5.	FCH 11231	FSR, RDM, CLS	MLB, TLB, P.RUST, C.ROT, BSR
6.	S-6750	FSR, RDM, CLS	MLB, TLB, P.RUST, C.ROT
7.	TH-38	FSR, CLS	MLB, BSR
8.	CMH 11-582	MLB, FSR	TLB, RDM, BSR, CLS
9.	DKC 8144 (IM 8479)	FSR, CLS	MLB, TLB, C.ROT, BSR
10.	Kuber Shakthi	FSR, CLS	MLB, TLB, C.ROT
11.	AQH 8	FSR, CLS	MLB, TLB
12.	HTMH 5402	C.ROT, FSR, RDM	MLB, TLB, BSR, CLS

13.	EH-2240	FSR, CLS	MLB, TLB, C.ROT, RDM, BSR
14.	EHL 3412	FSR, RDM, BSR	MLB, TLB, BLSB, C.ROT, CLS
15.	KMH-5951	FSR, RDM	CLS
16.	PRMH-2177	C.ROT, FSR	MLB, TLB, RDM, CLS
17.	KDMH 2705	FSR, CLS	MLB, TLB, P.RUST, C.ROT, RDM
18.	KNMH 4010131	MLB, FSR	TLB, BLSB, P.RUST, C.ROT, BSR
19.	DKC 9145 (IJ8533)	FSR, RDM	MLB, TLB, C.ROT, BSR, CLS
20.	Rasi-3033	FSR, RDM	MLB, TLB, C.ROT, CLS
21.	Bio -9637(C)	FSR, RDM, CLS	MLB, TLB, P.RUST, C.ROT

MPT 7. Disease screening of AVT I & AVT II (early maturity) maize hybrids (Trial 77)

A total of 25 genotypes out of 26 tested were resistant/ moderately resistant to different diseases (Table 7). Promising ones with MDR are given below:

S. No.	Genotype	Resistant	Moderately resistant
1.	AH 1261	FSR, CLS	MLB, TLB, C.ROT, BSR
2.	DMH-63	FSR, CLS	MLB, TLB, C.ROT, RDM, BSR
3.	FH 3669	MLB, FSR, RDM	TLB, C.ROT, BSR, CLS
4.	GWH 0712	FSR, RDM	BSR, CLS
5.	CMH 11-579	FSR, CLS	MLB, TLB, BLSB, C.ROT, RDM, BSR
6.	CMH 11-611	MLB, FSR, CLS	TLB, C.ROT, RDM, BSR
7.	CMH 11-626	MLB, FSR	TLB, C.ROT, RDM, BSR, CLS
8.	CMH 11-629	MLB, FSR, CLS	TLB, C.ROT, RDM, BSR
9.	B-52	FSR, RDM	MLB, TLB, C.ROT, BSR, CLS
10.	EH-2214	MLB, FSR, RDM, BSR, CLS	TLB, C.ROT
11.	NMH-1258	MLB, CLS	TLB, C.ROT, FSR, RDM
12.	EH-2212	FSR, BSR	MLB, TLB, C.ROT, RDM, CLS
13.	KMH-7021	FSR, RDM	MLB, TLB

MPT 8. Disease screening of AVT I & II (extra early maturity) maize hybrids (Trial 78)

A total of 9 genotypes out of 10 tested were resistant/ moderately resistant to different diseases (Table 8). Promising ones with MDR are given below:

S. No.	Genotype	Resistant	Moderately resistant
1.	KH-7502	FSR, RDM, CLS	MLB, TLB, C. RUST, C.ROT
2.	Vivek Hybrid-43(C)	FSR, RDM, CLS	MLB, TLB
3.	PMH-1-F	MLB, FSR, CLS	TLB, P.RUST, C.RUST, C.ROT, RDM, BSR
4.	BIO 9681-F	FSR, CLS	TLB, P.RUST, C.ROT, RDM
5.	PMH3-F	MLB, FSR, RDM, CLS	TLB, BLSB, C.RUST, C.ROT
6.	HM 10-F	FSR, CLS	MLB, TLB, BLSB, C.ROT, RDM, BSR

MPT 9. Disease screening of specialty corn hybrids

A total of 42 genotypes out of 48 tested were resistant/ moderately resistant to different diseases (Table 9). Promising ones with MDR are given below:

S. No.	Genotype	Resistant	Moderately resistant
1.	BAU QMH-17	FSR, CLS	MLB, TLB, C.ROT, RDM, BSR
2.	BQPMH 18	FSR, CLS	MLB, BLSB, C.ROT, RDM, BSR
3.	BQPMH 36	FSR, RDM, CLS	MLB, C.ROT
4.	KDQH-49	FSR, CLS	MLB, C.ROT
5.	LQPMH 114	C.ROT, FSR, RDM, CLS	MLB, TLB, BLSB, BSR
6.	LQPMH 214	C.ROT, FSR, CLS	MLB, TLB, BLSB
7.	LQPMH 314	FSR, CLS	MLB, C.ROT, RDM
8.	OQPMH 11-6	FSR, RDM	MLB, C.ROT, CLS
9.	VEHQ 11-1	FSR, CLS	MLB, TLB, BLSB, C.ROT, BSR
10.	VEHQ 14-1	FSR, CLS	MLB, TLB, C.ROT
11.	DMRQPM 1401	FSR, CLS	MLB, C.ROT
12.	MMH QPM-6-12-13	FSR, CLS	MLB, TLB, C.ROT, BSR
13.	HQPM 4-C	C.ROT, FSR, CLS	MLB, TLB, BLSB, RDM, BSR
14.	HQPM 5-C	FSR, BSR, CLS	MLB, TLB, BLSB, C.ROT

15.	ADVSW -1	FSR, RDM, CLS	MLB, TLB
16.	ADVSW -2	FSR, RDM	MLB, TLB, C.ROT, CLS
17.	ASKH 1	FSR, CLS	C.ROT, RDM
18.	BSCH 63	RDM, CLS	MLB, FSR
19.	FSCH 18	FSR, RDM, CLS	TLB, C.ROT
20.	FSCH 41	FSR, RDM, CLS	TLB, C.ROT
21.	KSCH-333	MLB, FSR	C.ROT, CLS
22.	SWC 001	FSR, RDM	MLB, TLB, BLSB, C.ROT, BSR, CLS
23.	CMH 11-658	C.ROT, RDM, BSR, CLS	MLB, FSR
24.	CMH 11-659	MLB, FSR, RDM, CLS	TLB, C.ROT, BSR
25.	Vivek Hybrid-27	FSR, CLS	MLB, RDM, BSR
26.	HM 4-C	FSR, CLS	MLB, TLB, C.ROT

MPT 10. Screening of maize hybrids against cyst nematode (*Heterodera zae*) at Udaipur

Four hundred fifty five (455) maize hybrids belonging to different maturity groups of initial and advance trials were screened (Tables 1-9) against cyst nematode (*Heterodera zae*). Out of them, 28 entries viz.; ADV 0990293, IN 8570, VNR 4325, JKMH 4023, JH13094, JH 13270, RMH-726, CMH 11-593, LMH 314, HT 51412607, JH 13121, JH 31607, CMH 11-584, DH 1405, DH 1401, CMH 12-697, CMH 12-691, AH-1320, X 35D601, CP. 999, DAS-MH-105, CMH 11-582, CMH 11-617, CMH 11-629, EH-2214, VIVEK QPM9-C, VEHQ 14-1, and CMH 11-659 exhibited moderately resistant reaction to *Heterodera zae*.

MPT 11. Disease screening of station maize hybrids against major diseases

Twenty seven hybrids of private sector were evaluated against bacterial stalk rot, maydis leaf blight, curvularia leaf spot and banded leaf and sheath blight at Dhaulakuan centre. The disease reactions are given in the table 10.

MPT 12. Disease screening of maize inbred lines

i. Disease screening of inbred lines against major diseases of maize

A total of 92 genotypes out of 99 tested were resistant/ moderately resistant to different diseases (Table 11). Promising ones with MDR are given below:

S. No.	Genotype	Resistant	Moderately resistant
1.	HKI163	C.ROT, FSR, CLS	MLB
2.	HKI 193-1	MLB, C.ROT, FSR	TLB
3.	HKI 1105	BLSB, C.ROT	
4.	HKI 1344	C.ROT, FSR, CLS	MLB
5.	CM 117-3-2-1-1-1-2-1	RDM, BSR	MLB, TLB, BLSB, FSR
6.	CM 132	C.ROT, FSR, BSR	TLB
7.	CM 501	FSR, CLS	MLB, TLB, C.ROT
8.	CM 502	FSR, BSR, CLS	TLB, C.ROT
9.	CM 123	FSR, CLS	MLB, TLB, C.ROT
10.	CM 128	FSR, CLS	MLB, C.ROT
11.	CML 446	MLB, C.ROT, FSR	TLB, BLSB, CLS
12.	CUBA 377	MLB, FSR, RDM, CLS	TLB, C.ROT, BSR
13.	IIMR QPM-03-124	MLB, C.RUTS, C.ROT	P. RUST, FSR, CLS
14.	DMSC 8	FSR, CLS	MLB
15.	HKI 1040-11-7	C.ROT, CLS	MLB, FSR
16.	HKI 164-D-3-3-2	FSR, CLS	MLB, TLB, BLSB, C.ROT, BSR
17.	HKI 193-2-2-1	C.ROT, FSR, BSR	MLB, TLB
18.	HKI 226	C.ROT, FSR, RDM	MLB, TLB, BSR
19.	HKI 31-2	C.ROT, FSR, CLS	MLB, TLB, BSR
20.	HKI 323	MLB, FSR	BLSB, CLS
21.	HKI-2-6-2-4(1-2)-4	C.ROT, CLS	MLB, TLB, BLSB, BSR
22.	HKIMBR 139-2	C.ROT, CLS	MLB, TLB, FSR, BSR
23.	HYD05R/204-1	MLB, C.ROT,FSR, CLS	TLB, BLSB, C.RUST
24.	JCY 2-7-2-1-1-B-1-2-1-1	MLB, FSR, CLS	TLB, BLSB, C.ROT, BSR

25.	Temp.HOC15	C.ROT, FSR, BSR	TLB
26.	WS KHOTHAI-1-WAXY-1-1	FSR, CLS	TLB, C.ROT
27.	EI 670	FSR, BSR	MLB, TLB, BLSB, C.ROT
28.	EI 708	SDM, FSR	MLB, TLB, C.ROT, CLS
29.	EI 561	FSR, CLS	MLB, TLB, BLSB, C.ROT
30.	BML13	FSR, BSR	MLB, TLB, BLSB, C.ROT
31.	BML15	BSR, CLS	MLB, TLB, FSR
32.	BML 8	FSR, CLS	MLB, BLSB, C.ROT
33.	CM 202	BSR, CLS	MLB, TLB, C.ROT, FSR
34.	CM 500	C.ROT, FSR, CLS	MLB, TLB, BLSB
35.	CML 451Q	C.ROT, FSR, RDM, CLS	MLB, TLB, BLSB
36.	CML 44	C.ROT, FSR, CLS	MLB, TLB
37.	CML117-3-4-1-1-4-1	C.ROT, FSR, BSR	MLB, TLB, BLSB
38.	CML165	C.ROT, FSR	MLB, TLB, BLSB, RDM
39.	CML 3	C.ROT, CLS	MLB, FSR, BSR
40.	DMSC 16-1	C.ROT, FSR, CLS	MLB, TLB
41.	DTPWC 9-F31-1-1-3	C.ROT, FSR	MLB, TLB, RDM, CLS
42.	HKI C 322	FSR, CLS	MLB, TLB
43.	HKI PC 8	MLB, C.ROT, FSR, RDM	TLB
44.	HKI 164—4(1-3)	C.ROT, FSR, CLS	TLB, BSR
45.	HKI-164-7-4-2	FSR, CLS	MLB, TLB, BLSB, C.RUST, C.ROT, RDM, BSR
46.	HKI 191-1-2-5	FSR, RDM, BSR	MLB, TLB, BLSB, CLS
47.	HKI-484-5	MLB, C.ROT	TLB, BLSB, C.RUST, FSR, BSR, CLS
48.	HKIC 78	C.ROT, BSR	MLB, TLB, FSR
49.	JCY 2-2-4-1-1	FSR, RDM, BSR, CLS	MLB, TLB, BLSB, SDM, C.ROT
50.	KML 3-3	FSR, RDM, CLS	MLB, TLB, C.ROT, BSR
51.	LM 5	C.ROT, BSR, CLS	MLB, BLSB, FSR,
52.	T2STR 1107	FSR, CLS, C.ROT	MLB, BLSB, BSR

53.	Tempx Trop(H0)QPM- B-B-B-57-B-B	MLB, FSR, CLS	TLB, C.ROT, RDM, BSR
54.	WINPOP-43	C.ROT, FSR, BSR	MLB, TLB
55.	WSC Shrunken X MUS MADHAU	FSR, BSR	C.RUST, C.ROT, CLS

ii. Disease screening of QPM lines against different diseases

Ten inbred lines out of 25 tested were resistant/ moderately resistant to different diseases (Table 12) given below:

S. No.	Genotype	Resistant	Moderately resistant
1.	DQL 2009	BLSB	MLB, TLB, C.ROT
2.	DQL 2019	MLB	TLB
3.	DQL 2025	BLSB	MLB, TLB
4.	DQL 2038	TLB	MLB, C.ROT
5.	DQL 2039	TLB	MLB
6.	DQL 2057	BLSB	MLB, TLB
7.	DQL 2111	BLSB	MLB, TLB, C.ROT
8.	DQL 2113	TLB	MLB, BLSB
9.	DQL 2104	TLB	MLB, BLSB, C.ROT
10.	DQL 2105-1	MLB, TLB, BLSB	C.ROT

iii. Disease screening of maize genotypes against MLB and PFSR

A total of 28 genotypes out of 65 tested were resistant/ moderately resistant to different diseases (Table 13). Promising ones are given below:

S.No.	Pedigree	Resistant	Moderately resistant
1.	TL02A-1184A-32-1-3-1-2-1-1	MLB, C.ROT	-
2.	TL02A-1184A-32-1-3-1-2-1-2	C. ROT	MLB
3.	TL02A-1184A-32-1-3-1-2-1-3	MLB, C. ROT	-
4.	TL02A-1184A-32-4 -1-1-2-1-1-1	C. ROT	MLB
5.	TL02A-1184A-32-4 -1-1-2-1-1-2	MLB, C. ROT	-
6.	AF -04-B-5779-22-3-3-2-2-1-1-1	C. ROT	MLB
7.	AF -04-B-5779-22-3-3-2-2-1-1-2	MLB, C.ROT	-
8.	CM 115-4-2 -3-2-2-1-1-1-1	MLB	C. ROT
9.	CM 115-4-2 -3-2-2-1-1-1-3	MLB	C. ROT

10.	PFSR (Y)-C0-1-Ä-4-1Ä-1-1-1-3Ä-1-1-1-1-1	MLB	C. ROT
11.	PFSR (Y)-C0-1-Ä-4-1Ä-1-1-1-3Ä-1-1-1-1-2	MLB	C. ROT
12.	PFSR (Y)-C0-1-Ä-4-1Ä-1-1-1-3Ä-1-1-2-1-2	MLB	C. ROT
13.	V338 -1Ä-1-1-1-1-1	MLB	C. ROT
14.	PFSR (Y)-C0-3Ä-1-1-1-1-1	C. ROT	-
15.	PFSR (Y)-C0-3Ä-1-1-1-1-2	C. ROT	-
16.	Indimyt-345-2Ä-1-1-1	MLB	C. ROT
17.	Indimyt-345-3Ä-2-1-1	MLB	C. ROT
18.	Indimyt-345-3Ä-2-1-3	C. ROT	MLB
19.	PFSR (Y)-C1-A-A1 Pink heart Bold grains-2Ä-1-2-1-1-1	MLB	C. ROT
20.	North east 3-1 (N)- Ä -1-1-1	MLB	C. ROT
21.	North east 4-1 (N)- Ä -1-1-2	MLB	C. ROT
22.	PFSR (Y)-C1-A-A1 Pink heart Bold grains-2Ä-1-2-1-1-2	C. ROT	-
23.	NEH (W) -1 (N)-1-2	C. ROT	MLB
24.	CML 342 - 1-1-1	C. ROT	-
25.	CML 342 - 1-1-2	C. ROT	-
26.	PFSR (Y)-C1-A-A1 Pink heart B.G. Ä-1-2-1-1	C. ROT	MLB
27.	PFSR (Y)-C1-B Ä-2-1-1-1	C. ROT	-
28.	PFSR (Y)-C0 Ä-2-1-1-1	C. ROT	-

iv. Disease screening of inbred lines of maize against different diseases

Multilocation screening of 43 inbred lines (Table 14) under artificial inoculation condition was done for major diseases *viz.*, MLB (Delhi, Ludhiana, Karnal and Dhaulakuan), TLB (Mandya, Bajaura, Almora and Arbhavi), BLSB (Pantnagar, Delhi, Karnal and Dhaulakuan), C.ROT (Ludhiana), C.RUST (Arbhavi), P.RUST (Mandya), SDM (Mandya) and BSR (Dhaulakuan). Promising lines are given below:

S.No.	Genotype	Resistant	Moderately resistant
1.	TL02A-1184A-32-1-3-1-2-1-1	-	MLB, TLB
2.	Indimyt-300-B (Bold grain Golden colour)-2Ä-1-1-2-1-1	-	C.ROT
3.	PFSR (Y)-C1-A-A1 Pink heart Bold grains-2Ä-1-2-1-1-1	-	C.ROT
4.	PFSR (Y)-C1-A-A1 Pink heart B.G. ⊗-1-2-1-1	-	C.ROT
5.	PFSR (Y)-C1-B ⊗-1-1-1-2	-	C.ROT
6.	PFSR (Y)-C1-B ⊗-2-1-1-1	-	C.ROT
7.	PFSR (White) Ä-2-2-1-1	-	C.ROT

8.	V406 -2 Ä-1-1 -1-1-1	C.ROT	MLB, TLB
9.	PFSR (Y)-C1-B-1Ä-1-2-1-1-1	-	C.ROT
10.	PFSR (Y)-C1-B-1Ä-1-2-1-1-1	-	MLB, TLB, BLSB
11.	Indimyt-100-2Ä-1-2-1-1	-	MLB, TLB, P.RUST
12.	Indimyt-100-2Ä-1-2-2-1	MLB	TLB, BLSB, C.ROT
13.	North east 4-1 (N)-1	-	MLB, TLB, C.ROT, P.RUST
14.	Indimyt-145 Ä-1-1-1-1	-	MLB, TLB, C.ROT
15.	Indimyt-345 Ä-1-1-1	-	MLB, TLB, C.ROT
16.	PFSR (Y))-C1-A-A1 Pink heart B.G. Ä-3-1-1-1	-	MLB, TLB, BLSB, C.ROT
17.	PFSR (Y))-C1-A-A1 Pink heart B.G. ⊗-3-2-1-1	-	C.ROT
18.	PFSR (Y)-C1-A-B1 White heart S. G. ⊗-1-2-1-1 (Good)	-	C.ROT, P.RUST
19.	PFSR (Y)-C1-A-B1 White heart S.G. Ä-2-1-1-1	C.ROT	P.RUST
20.	PFSR (Y)-C1-B Ä-3-1-1-1	-	MLB, BLSB
21.	PFSR (Y)-C1-B Ä-3-2-1-1	-	MLB, TLB, C.ROT
22.	PFSR (White) Ä-2-2-1-2	-	C.ROT
23.	Indimyt-300-A (B. G. Yellow) Ä-1-2-1-1	-	MLB, TLB, C.ROT
24.	Indimyt-300-A (B. G. Yellow) Ä-1-3-1-1 (Big)	-	MLB, TLB, BLSB, C.ROT
25.	Indimyt-300-A (B. G. Yellow) Ä-2-2-1-1	-	MLB, TLB, C.ROT, P.RUST
26.	Indimyt-145 Ä-1-1-1-1	-	C.ROT, P.RUST
27.	HEY Pool (Extra Early) ⊗-1-1-1-1	-	C.ROT
28.	PFSR (Y)-C1-A-A1 (Pink heart BG) ⊗-1 -1	-	MLB, TLB, BLSB, C.ROT
29.	PFSR (Y)-C1-B ⊗-1-3	-	C.ROT, P.RUST
30.	PFSR (Y)-C0 ⊗-1-1	-	C.ROT
31.	PFSR (White) ⊗-1-1	-	C.ROT
32.	PFSR (Y)-C1-B Ä-1-3	-	MLB, TLB, BLSB
33.	PFSR (Y)-C0 Ä-1-1	-	MLB, TLB
34.	Indimyt-145 Ä-1-1	-	MLB, TLB, C.ROT
35.	Indimyt-345 Ä-1-1	-	C.ROT

v. Disease screening of maize inbred lines against FSR, CLS, RDM and cyst nematode at Udaipur

Twenty eight inbred lines were evaluated by Udaipur centre against FSR, CLS, RDM and cyst nematode. The disease reactions of the lines are given in table 15.

vi. Disease screening of maize inbred lines against TLB disease at Mandya

One hundred forty four inbred lines were evaluated by Mandya centre against TLB. The disease reaction of the lines is given in table 16.

MPT 13. Assessment of avoidable yield losses due to major diseases of maize

Yield losses due to major diseases of maize were assessed at Almora and Dhaulakuan centres using paired plot technique under artificially created epiphytotics (Tables 17-18). The avoidable yield loss in Vivek Hybrid 5 at Almora due to TLB was 17.21% whereas Dhaulakuan centre recorded 35.98% yield loss due to MLB, CLS and BLSB.

MPT 14. Occurrence of diseases in trap nursery trial

Trap nursery trial was conducted (Table 19) to find out the occurrence of any new disease(s) on maize at various locations i.e. Dholi, Karnal, Mandya, Udaipur, Dhaulakuan, Pantnagar, Delhi, Hyderabad, Bhubneshwar, Ludhiana, Coimbatore, Arabhavi, Bajaura, and Almora. Diseases recorded in these locations were MLB, TLB, BSR, BLSB, BSDM, PFSR, RDM, SDM, CLS, P. rust, Brown spot and C. rust in low to severe intensities. From Mandya, CLS and Phaeospharia leaf spot were observed which are not common in this area.

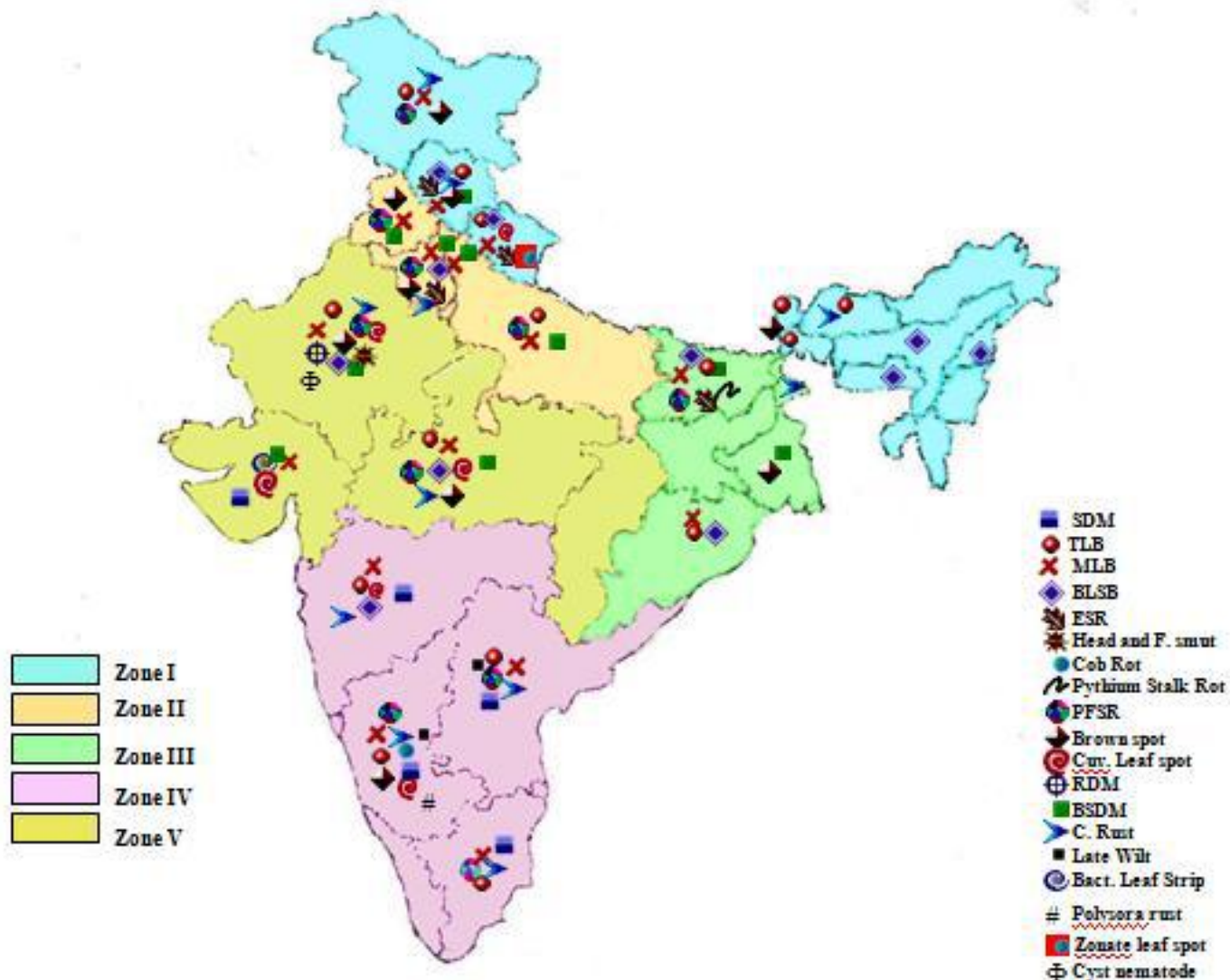
MPT 15. Survey and surveillance of maize diseases/cyst nematode

i. Occurrence of maize diseases during *Kharif* 2014

Maize disease survey and surveillance was undertaken in maize growing areas of Bhubaneswar (Odisha), Ludhiana (Punjab), Almora, Pantnagar (Uttarakhand), Bajaura, Dhaulakuan, Sirmour, Solan, Bilaspur, Hamirpur, Kangra, Una (Himachal Pradesh), Arabhavi (Karnataka), Udaipur (Rajasthan) and in Gujarat during the year *Kharif* 2014 (Table 20-26).

S. No.	States	Locations	Diseases	Severity
1.	Odisha	Bhubaneswar, Angul, Dhenkanal and Kalahandi (4)	BLSB	Severe
			MLB	Moderate
			TLB	Traces
2.	Punjab	Hoshiarpur, Ludhiana, Shaheed Bhagat Singh Nagar, Jalandhar, Ropar and Gurdashpur (6)	BLSB	Low to moderate
			MLB	Moderate to severe

			BSR	Low to moderate
			PFSR	Low to moderate
			BSDM	Traces
3.	Himachal Pradesh	Sirmour, Solan, Bilaspur, Hamirpur, Kangra, Una, Nihargarh, Kartarpur, Shivpur, Akalgarh, Kollar, Ladu (1249), Shatri (875), Karchhia (1412), Kano, Bajaura, Mandi and Kullu (18)	MLB, BLSB and TLB	Traces to severe
			CLS, Brown Spot and BSR	Traces
4.	Karnataka	Belgaum, Bagalkot, Dharwad, Gadak and Haveri (5)	Foliar diseases	Severe
			Stalk rot	Moderate
5.	Uttarakhand	Pantnagar and Almora districts (2)	MLB, TLB, BLSB	Severe
			CLS	Traces
6.	Rajasthan	Udaipur (Nai, Fateh nagar, Kharwa chanda, Bujhda, Mavli, Sisarama, Dabok, Kaladwas, Mangal war, Bheel khera, Kavita and Iswal) (12)	RDM, MLB, PFSR	Moderate to severe
			CLS and Brown Spot	Traces to moderate
			Flag smut	Moderate
7.	Gujarat	Panchmahal, Santrampur, Kadana, Dahod, Garbada, Chhotaudipur, Pavijetpur, Amirgadh, Khedbrahma and Bhiloda (10)	MLB, TLB, CLS and BLSB	Moderate



- Disease distribution map based on disease survey 2014 K

(ii) Occurrence of maize cyst nematode in Rajasthan

Results showed that occurrence of maize cyst nematode (*H. zae*) was observed to the tune of 64.44 per cent in maize growing areas of Rajasthan (Table 27). Population of *Heterodera zae* (10.33 cyst/plant, 12.67 cyst/100 cc soil and 520.00 larvae/100 cc soil) was recorded maximum in samples collected from Gudli (Udaipur) with occurrence of 75.00 % while minimum population (3.00 cyst/plant, 6.00 cyst/100 cc soil and 316.67 larvae/ 100 cc soil) of *H. zae* was seconded from Ramgarh (Ajmer). Root lesion nematode (*Pratylenchus* spp.), lance nematode (*Hoplolaimus* spp.), stunt nematode (*Tylenchorhynchus* spp.) and root-knot nematode (*Meloidogyne* spp.) were other important plant parasitic nematodes observed in the samples.

MPT 16. Development of integrated management module for major diseases of maize

i. Identification of promising components for disease management in maize

Field experiments on disease management in maize were conducted at AICRPM centres during *Kharif* 2014 to identify promising components (Table 28-34). The Promising components identified are mentioned below:

S. No.	Disease	Centre	Promising Component identified	PDI	Disease control (%)	Yield increase (%)
1.	BLSB	Bajaura	Trifloxystrobin 25% + Tebuconazole 50% @ 0.05%	43.3	43.5	40.7
		Ludhiana	Azoxystrobin @ 0.05%	31.8	54.6	73.4
		Karnal	Validamycin @ 0.1%	47.5	46.5	48.1
		Delhi	Validamycin @ 0.1%	57.6	23.2	-
		Pantnagar	Pencycuron @ 0.1%	46.6	39.3	48.8
		Dhaulakuan	Trifloxystrobin 25% + Tebuconazole 50% @ 0.05%	22.7	64.4	34.0
		Bhubaneswar	Validamycin @ 0.1%	23.0	73.2	151.7
		Godhra	Trifloxystrobin 25% + Tebuconazole 50% @ 0.05%	10.8	60.5	36.1
		Almora	ST & FS of <i>Trichoderma</i>	-	65.0	-
			Mean	35.33	50.69	49.63
2.	TLB	Arbhavi	Tebuconazole@ 0.5ml/litre	26.6	38.4	34.4

3.	MLB	Karnal	<i>R. serpentine</i> leaves @10%	52.8	35.8	62.64
			Carbendazim 12 WP + Mancozeb 63 WP @ 0.3%	49.4	40.7	38.25
4.	C. Rust	Arbhavi	Azoxystrobin @ 0.05%	20.0	53.8	14.3
5.	PFSR					
	C.Rot	Ludhiana	Propiconazole @ 0.1%	48.4	34.6	82.9
	FSR	Udaipur	Propiconazole + Mancozeb ST @ 2+2 g/Kg seed + FS -0.25% before flowering	27.0	65.4	-
6.	SDM	Mandya	Metalaxyl+Mancozeb @ 0.25% seed treatment and spray @ 0.25%	6.94	92.5	-

ST- Seed treat meant; FS- Foliar spray

ii. Identification of promising components for management of maize cyst nematode

A trial was carried out at Udaipur to identify suitable nematode management components against maize cyst nematode (*Heterodera zae*) on maize. Experimental results showed that use of lantana leaf at 2 q/ha (*Lantana camara*) as organic amendment proved best (Table 35) with respect to reduced nematode population (28.35–41.75 %) followed by neem cake at 2 q/ha (31.35–45.26 %) and lantana leaf at 1 q/ha (17.91- 28.42 %) over check. Maximum grain yield (36.24 q/ha) was obtained in lantana leaf at 2 q/ha with an increase of 28.01 % followed by neem cake at 2 q/ha (37.43 q/ha) and neem leaf at 2 q/ha (34.90 q/ha) over untreated check (28.31 q/ha).

MPT 17. Interaction of cyst nematode with disease, termite and insect

i. Interaction of cyst nematode (*Heterodera zae*) with PFSR pathogen (*Fusarium verticillioides*) and stem borer (*Chilo partellus*) in maize

Population of maize cyst nematode (*H. zae*) (N) significantly declined when interacts with PFSR pathogen, *Fusarium verticillioides* (F) and stem borer, *Chilo partellus* (Table 36). Reduction in nematode population was recorded 11.60 - 15.18% with PFSR, 31.11 - 34.51 % with stem borer and 36.21 - 40.01 % when nematode interacts with both the organisms. Disease rating of PFSR was observed 4.12 in N+F and 5.35 in N+F+I. Leaf injury rating of *Chilo partellus* was also recorded and it was observed 4.37 in N+I and 5.72 in N+F+I. Grain yield of maize significantly reduced when nematode interacts with PFSR (11.26 %), stem borer (16.43 %) and PFSR + stem borer (37.26 %).

ii. Studies on interaction of maize cyst nematode with termite on maize

A trial was carried out to study interaction of maize cyst nematode with termite on maize during *Kharif*, 2014. Results revealed that cyst and final nematode larvae population/100 cc soil reduced 36.31 % and 32.49 %, respectively (Table 37) with nematode + termite interaction over nematode alone (check). Maize yield was recorded 30.83 and 43.67 g/plant in N+T and check, respectively. Reduction in yield was observed 29.40 % in N+T over check.

B. Rabi 2013-14

MPT 1. Disease screening of hybrids of *Rabi* maize

A total of 96 genotypes were evaluated (Table 38) against major diseases of maize under artificially created epiphytotics at various hot spot locations i.e. sorghum downy mildew (SDM) at Coimbatore and Mandya; charcoal rot (C. Rot) at Arabhavi, Ludhiana and Hyderabad; banded leaf and sheath blight (BLSB) at Midnapur and turcicum leaf blight (TLB) at Dholi. Promising hybrids are mentioned below:

TLB: A 7501, NMH-1247, PRO-385, X 35B349, GK 3149, Venus, Megan-G, PMH-189, X 35C537, DADA, CP-999, GK 3118, IM 8222, CSM 1, KMH-4210, Bio 9662, DMRH 1302, AH 1315, NMH-51, IM 8013, IL 8033, IH-061, DMRH 1304, AH 1313 **(24)***

SDM: A 7501, X 35B349, GK 3150, NMH-51 **(4)***

C. Rot: A 7501, Bisco X 5141, NMH-1247, PRO-385, X 35B349, Bisco X 6573, X-1228, KH-K25 Gold, II 8212, DKC 9120, IL 8534, X 35C537, P 3533, TH 22, CP-838, CP-999, CP-111, GK 3118, GK 3155, HTMH 5108, HTMH 5202, KH-2192, KMH-1411, IM 8226, Rasi 393, Rasi 950, VEH 13-1, CSM 1, JH 248, DMRH 1308, , KH-K26, IJ 8521, IL 8536, IL 8537, IJ8214, BL 798, BL 900, KH-517, IM 8303, VaMH 08015, CSM 2, DMRH 1301, DMRH 1302, DMRH 1306, DMRH 1307, AH 1314, AH 1315, B-52, IM 8013, IL 8033, IL 8235, IH-072, IH-061, IHQ-091, DMRH 1303, DMRH 1304, DMRH 1305, AH 1312, AH 1313, QPM-3, MMHQPM-6-12-13 **(MR)** (61)***

MDR (3)#: A 7501, X 35B349, NMH-51

*Figures in parenthesis are number of genotypes in the category.

Table 1. Disease screening of IVT (late maturity) maize hybrids (Trial 61)

S.No	Genotype	Maydis leaf blight score (1-5)					Av. Score	Range	Reaction
		DHOL	KARN	LUDH	DHAU	DELH			
1	JH 13183	2.5	2.5	2.5	3.0	2.0	2.5	2.0-3.0	MR
2	MAH-974	2.5	2.2	2.4	3.0	2.0	2.4	2.0-3.0	MR
3	K-25 Gold	2.0	2.8	2.4	3.0	2.0	2.4	2.0-3.0	MR
4	IN 8602	3.0	1.8	2.4	4.0	1.5	2.5	1.5-4.0	MR
5	PM 14105L	3.0	3.4	3.2	1.3	2.0	2.6	1.3-3.4	MR
6	NMH 1605	3.0	2.2	2.6	2.0	1.5	2.3	1.5-3.0	MR
7	JH 13197	3.0	1.8	2.4	3.0	2.0	2.4	1.8-3.0	MR
8	ADV 0990293	4.0	2.7	3.4	4.0	2.0	3.2	2.0-4.0	MS
9	CSM 1	2.0	3.6	2.8	2.5	2.0	2.6	2.0-3.6	MR
10	JH 13041	3.0	2.0	2.5	2.0	2.0	2.3	2.0-3.0	MR
11	Super 777	3.0	2.7	2.9	2.5	1.5	2.5	1.5-3.0	MR
12	SAMH-378	4.0	1.8	2.9	3.0	2.0	2.7	1.8-4.0	MR
13	NT 6325	2.0	3.1	2.6	3.0	2.0	2.5	2.0-3.1	MR
14	GYH-0652	5.0	3.2	4.1	3.0	2.5	3.6	2.5-5.0	MS
15	AMH-3436	3.0	2.2	2.6	2.0	3.5	2.7	2.0-3.5	MR
16	JH 13045	2.0	2.2	2.1	2.0	2.0	2.0	2.0-2.2	R
17	CMH12-667	2.0	1.4	1.7	1.3	1.5	1.6	1.3-2.0	R
18	GOLD 1166	3.5	2.5	3.0	3.0	1.5	2.7	1.5-3.5	MR
19	SriKARN 3033	2.5	1.9	2.2	2.0	1.5	2.0	1.5-2.5	R
20	DMRH 1413	3.5	2.5	3.0	2.5	2.0	2.7	2.0-3.5	MR
21	DAS-MH-107	2.5	2.1	2.3	1.3	1.5	1.9	1.3-2.5	R
22	AH 7005	2.0	2.3	2.2	2.0	1.5	2.0	1.5-2.3	R
23	HKH 422	2.5	2.3	2.4	2.5	1.5	2.2	1.5-2.5	MR
24	REH 2013-2	3.0	3.1	3.1	2.0	2.5	2.7	2.0-3.1	MR

Contd.

Maydis leaf blight score (1-5)									
S.No	Genotype	DHOL	KARN	LUDH	DHAU	DELH	Av. Score	Range	Reaction
25	JH 13244	2.5	2.5	2.5	3.0	2.0	2.5	2.0-3.0	MR
26	JH 12063	2.5	1.9	2.2	3.0	1.5	2.2	1.5-3.0	MR
27	NMH-1247	3.0	1.9	2.5	2.0	2.0	2.3	1.9-3.0	MR
28	JH 13094	1.5	2.8	2.2	2.5	2.0	2.2	1.5-2.8	MR
29	JH 13252	3.0	1.9	2.5	2.0	1.5	2.2	1.5-3.0	MR
30	CMH 12-663	4.0	2.4	3.2	4.0	3.5	3.4	2.4-4.0	MS
31	NT 8441	3.5	3.2	3.4	4.0	2.0	3.2	2.0-4.0	MS
32	BH 412095	3.5	2.0	2.8	3.0	1.5	2.6	1.5-3.5	MR
33	JKMH 4242	2.5	2.0	2.3	3.0	2.0	2.4	2.0-3.0	MR
34	HT 51412373	2.5	2.8	2.7	2.0	1.5	2.3	1.5-2.8	MR
35	ADV 0990296	3.0	3.1	3.1	2.0	2.0	2.6	2.0-3.1	MR
36	JH 13230	3.0	1.8	2.4	3.0	1.5	2.3	1.5-3.0	MR
37	Gin 02	2.5	3.3	2.9	2.0	1.5	2.4	1.5-3.3	MR
38	BH 412140	3.0	1.9	2.5	3.0	3.0	2.7	1.9-3.0	MR
39	SAFAL X-2	3.0	2.3	2.7	3.0	1.5	2.5	1.5-3.0	MR
40	CMH10-555	2.0	2.2	2.1	1.3	1.5	1.8	1.3-2.2	R
41	CSM 2	3.0	2.4	2.7	3.0	3.0	2.8	2.4-3.0	MR
42	Gin 01	2.5	1.6	2.1	3.0	2.0	2.2	1.6-3.0	MR
43	IN 8570	3.0	3.1	3.1	2.0	2.0	2.6	2.0-3.1	MR
44	Siri -4555	3.0	3.1	3.1	2.0	1.5	2.5	1.5-3.1	MR
45	JH 13282	3.0	1.9	2.5	2.0	2.0	2.3	1.9-3.0	MR
46	super 1177	3.5	2.5	3.0	2.0	1.5	2.5	1.5-3.5	MR
47	JH 12010	2.5	2.8	2.7	3.0	1.5	2.5	1.5-3.0	MR
48	Bio-069	3.5	2.6	3.1	2.0	1.5	2.5	1.5-3.5	MR
49	JH 13037	2.5	2.3	2.4	0.0	2.0	1.8	0.0-2.5	R
50	VNR 4325	3.5	3.0	3.3	3.0	2.0	3.0	2.0-3.5	MR

Contd.

Maydis leaf blight score (1-5)									
S.No	Genotype	DHOL	KARN	LUDH	DHAU	DELH	Av. Score	Range	Reaction
51	NMH 1008	2.5	2.7	2.6	3.0	2.0	2.6	2.0-3.0	MR
52	BH 412096	2.5	2.0	2.3	3.0	1.5	2.3	1.5-3.0	MR
53	BH 412141	2.0	2.3	2.2	3.0	2.0	2.3	2.0-3.0	MR
54	VNR 31862	3.0	3.0	3.0	1.3	2.0	2.5	1.3-3.0	MR
55	DMRH 1308	2.0	1.9	2.0	1.3	1.5	1.7	1.5-2.0	R
56	JKMH 4023	2.5	1.9	2.2	2.0	2.0	2.1	1.9-2.5	MR
57	DAS-MH-106	2.5	2.6	2.6	3.0	2.0	2.5	2.0-3.0	MR
58	REH 2013-6	3.5	2.2	2.9	3.0	1.5	2.6	1.5-3.5	MR
59	JH 13278	2.0	2.0	2.0	3.0	2.0	2.2	2.0-3.0	MR
60	PM 14104L	3.0	1.8	2.4	3.0	1.5	2.3	1.5-3.0	MR
61	PM 14106L	3.0	3.5	3.3	4.0	2.0	3.2	2.0-4.0	MS
62	PMSW 4	3.5	2.8	3.2	3.0	2.0	2.9	2.0-3.5	MR
63	JH 13270	3.0	2.6	2.8	2.0	2.5	2.6	2.0-3.0	MR
64	IN 8569	2.5	1.6	2.1	2.0	2.0	2.0	1.6-2.5	R
65	HT 51412616	2.0	2.5	2.3	2.0	1.5	2.1	1.5-2.5	R
66	KF-110	2.5	2.3	2.4	3.0	2.0	2.4	2.0-3.0	MR
67	JH 13249	3.5	2.4	3.0	3.0	2.0	2.8	2.0-3.5	MR
68	GK-3118	2.5	1.9	2.2	1.3	1.5	1.9	1.3-2.5	R
69	DMRH 1415	3.0	2.3	2.7	4.0	2.0	2.8	2.0-4.0	MR
70	KH-1408	2.5	2.1	2.3	1.3	1.5	1.9	1.3-2.5	R
71	GK-3124	2.5	1.9	2.2	2.0	2.0	2.1	1.9-2.5	MR
72	115-08-01	3.5	2.0	2.8	2.0	1.5	2.4	1.5-3.5	MR
73	SYN 417750	2.5	2.4	2.5	4.0	1.5	2.6	1.5-4.0	MR
74	JH 13248	2.0	2.1	2.1	3.0	1.5	2.1	1.5-3.0	MR
75	IN 8603	3.0	2.2	2.6	1.3	2.0	2.2	1.3-3.0	MR
76	CP. 555	2.5	2.3	2.4	2.0	2.0	2.2	2.0-2.5	MR

Contd.

Maydis leaf blight score (1-5)									
S.No	Genotype	DHOL	KARN	LUDH	DHAU	DELH	Av. Score	Range	Reaction
77	JH 13044	3.0	2.6	2.8	3.0	1.5	2.6	1.5-3.0	MR
78	GH-110204	3.5	2.2	2.9	4.0	2.0	2.9	2.0-4.0	MR
79	PMSY -3	4.0	2.2	3.1	3.0	2.0	2.9	2.0-4.0	MR
80	MAH-957	2.5	2.0	2.3	2.5	2.0	2.3	2.0-2.5	MR
81	GPS -02	2.5	2.2	2.4	4.0	2.0	2.6	2.0-4.0	MR
82	GPMH-1111	3.0	2.5	2.8	1.3	2.5	2.4	1.3-3.0	MR
83	DMH-7721	3.5	2.4	3.0	4.0	2.0	3.0	2.0-4.0	MR
84	HT 51412607	2.0	1.7	1.9	3.0	1.5	2.0	1.5-3.0	R
85	DMH-192	2.5	2.0	2.3	4.0	2.0	2.6	2.0-4.0	MR
86	Proline-2404	2.0	1.4	1.7	1.3	2.0	1.7	1.3-2.0	R
87	CMH12-671	2.5	2.7	2.6	3.0	1.5	2.5	1.5-3.0	MR
88	CMH 11-618	3.0	1.7	2.4	2.0	1.5	2.1	1.5-3.0	MR
89	KMH-3981	2.5	2.3	2.4	3.0	2.0	2.4	2.0-3.0	MR
90	GH-110145	3.5	2.8	3.2	4.0	2.5	3.2	2.5-4.0	MS
91	NT 8711	3.0	2.0	2.5	3.0	2.0	2.5	2.0-3.0	MR
92	Sonam -27	3.0	3.5	3.3	4.0	2.0	3.2	2.0-4.0	MS
93	GPS -03	3.0	1.4	2.2	2.0	1.5	2.0	1.4-3.0	R
94	IN 8902	2.5	2.8	2.7	3.0	2.5	2.7	2.5-3.0	MR
95	super 6768	2.5	1.6	2.1	4.0	2.0	2.4	1.6-4.0	MR
96	PM 14101L	2.0	2.5	2.3	2.0	1.5	2.0	1.5-2.5	R
97	REH 2013-5	2.5	2.6	2.6	3.0	2.0	2.5	2.0-3.0	MR
98	DMRH 1416	3.0	2.3	2.7	2.0	1.5	2.3	1.5-3.0	MR
99	BH 412131	3.0	2.7	2.9	2.5	2.0	2.6	2.0-3.0	MR
100	JH 12150	3.0	1.6	2.3	3.0	1.5	2.3	1.5-3.0	MR
101	HKH 423	3.0	2.7	2.9	2.0	1.5	2.4	1.5-3.0	MR
102	GPMH-1101	3.0	2.2	2.6	3.0	1.5	2.5	1.5-3.0	MR

Contd.

Maydis leaf blight score (1-5)									
S.No	Genotype	DHOL	KARN	LUDH	DHAU	DELH	Av. Score	Range	Reaction
103	VEH 14-1	2.0	2.1	2.1	2.5	1.5	2.0	1.5-2.5	R
104	ADV 1190384	4.0	2.3	3.2	2.0	1.5	2.6	1.5-4.0	MR
105	DKC 9125	3.0	2.1	2.6	3.0	2.0	2.5	2.0-3.0	MR
106	JH 13023	2.0	2.4	2.2	2.0	1.5	2.0	1.5-2.4	R
107	IN 8903	3.0	2.3	2.7	2.0	2.0	2.4	2.0-3.0	MR
108	KH-2192	3.5	2.0	2.8	2.5	2.0	2.6	2.0-3.5	MR
109	PRMH-189	2.5	2.1	2.3	3.0	1.5	2.3	1.5-3.0	MR
110	DMRH 1411	2.5	2.3	2.4	3.0	2.0	2.4	2.0-3.0	MR
111	DMRH 1409	3.5	2.1	2.8	3.0	2.5	2.8	2.1-3.5	MR
112	IAHM 2013-12	3.0	3.1	3.1	3.0	1.5	2.7	1.5-3.1	MR
113	SAMH-225	2.0	1.9	2.0	3.0	1.5	2.0	1.5-3.0	R
114	PM 14102L	2.5	2.3	2.4	2.0	2.0	2.2	2.0-2.5	MR
115	RMH-726	2.0	2.5	2.3	1.3	1.5	1.9	1.3-2.5	R
116	PMH 1-C	1.5	1.9	1.7	2.0	1.5	1.7	1.5-2.0	R
117	PMH 3-C	3.0	2.0	2.5	2.0	1.5	2.2	1.5-3.0	MR
118	Bio -9681-C	3.5	3.4	3.5	4.0	1.5	3.2	1.5-4.0	MS
119	Seedtech 2324-C	3.5	3.2	3.4	3.0	2.0	3.0	2.0-3.5	MR
120	HM11-C	2.5	2.6	2.6	-	2.0	2.4	2.0-2.6	MR
121	RES. CHECK	-	1.3	-	-	-	1.3	1.3	R
122	SUS. CHECK	4.0	3.8	4.5	4.0	4.0	4.1	3.8-4.5	S

Resistant Check : MLB:- HQPM 1 (KARNAL)

**Susceptible Check : MLB:- CML 186 (DHOLI); HKI 1105 + HKI 536CBT (KARNAL); CM 600 (LUDHIANA)
DKC 7074 (DHAULAKUAN); CM 600 (DELHI)**

Contd.

Turcium leaf bilght score (1-5)								
S.No	Genotype	BAJA	ALMO	MAND	ARBHH	Av. Score	Range	Reaction
1	JH 13183	2.5	1.0	2.8	4.0	2.6	1.0-4.0	MR
2	MAH-974	1.8	1.0	3.3	4.5	2.6	1.0-4.5	MR
3	K-25 Gold	2.5	1.0	3.0	4.0	2.6	1.0-4.0	MR
4	IN 8602	2.0	1.5	1.8	3.5	2.2	1.5-3.5	MR
5	PM 14105L	2.0	1.5	2.3	3.0	2.2	1.5-3.0	MR
6	NMH 1605	2.0	1.0	3.0	3.5	2.4	1.0-3.5	MR
7	JH 13197	2.0	1.0	3.0	4.5	2.6	1.0-4.5	MR
8	ADV 0990293	1.8	1.0	2.5	2.5	1.9	1.0-2.5	R
9	CSM 1	1.8	1.5	2.0	5.0	2.6	1.5-5.0	MR
10	JH 13041	2.0	1.0	2.0	3.5	2.1	1.0-3.5	MR
11	Super 777	2.5	1.0	2.0	4.0	2.4	1.0-4.0	MR
12	SAMH-378	2.3	1.0	2.0	4.0	2.3	1.0-4.0	MR
13	NT 6325	1.5	1.5	4.3	3.5	2.7	1.5-4.3	MR
14	GYH-0652	2.5	1.5	3.5	5.0	3.1	1.5-5.0	MS
15	AMH-3436	2.5	1.0	2.8	4.0	2.6	1.0-4.0	MR
16	JH 13045	2.3	1.0	3.0	4.0	2.6	1.0-4.0	MR
17	CMH12-667	1.5	1.0	3.0	3.0	2.1	1.0-3.0	MR
18	GOLD 1166	1.5	1.0	2.2	4.0	2.2	1.0-4.0	MR
19	SriKARN 3033	2.0	1.5	2.5	3.5	2.4	1.5-3.5	MR
20	DMRH 1413	2.0	1.5	2.0	4.0	2.4	1.5-4.0	MR
21	DAS-MH-107	2.0	1.5	2.5	3.5	2.4	1.5-3.5	MR
22	AH 7005	2.0	1.0	2.8	4.5	2.6	1.0-4.5	MR
23	HKH 422	1.5	1.0	2.3	3.0	2.0	1.0-3.0	R
24	REH 2013-2	2.0	1.5	3.0	4.0	2.6	1.5-4.0	MR

Contd.

Turcium leaf bilght score (1-5)								
S.No	Genotype	BAJA	ALMO	MAND	ARBH	Av. Score	Range	Reaction
25	JH 13244	1.5	1.5	2.5	3.5	2.3	1.5-3.5	MR
26	JH 12063	1.5	1.0	3.0	4.0	2.4	1.0-4.0	MR
27	NMH-1247	2.3	1.0	2.8	5.0	2.8	1.0-5.0	MR
28	JH 13094	2.0	1.0	2.5	4.0	2.4	1.0-4.0	MR
29	JH 13252	2.0	1.5	3.3	4.5	2.8	1.5-4.5	MR
30	CMH 12-663	1.8	1.0	3.0	4.5	2.6	1.0-4.5	MR
31	NT 8441	1.5	1.5	3.0	4.0	2.5	1.5-4.0	MR
32	BH 412095	2.5	1.5	2.8	5.0	3.0	1.5-5.0	MR
33	JKMH 4242	3.3	1.0	2.8	3.5	2.6	1.0-3.5	MR
34	HT 51412373	1.5	1.0	1.5	4.0	2.0	1.0-4.0	R
35	ADV 0990296	2.3	1.5	2.5	3.5	2.4	1.5-3.5	MR
36	JH 13230	1.8	1.0	2.8	3.0	2.1	1.0-3.0	MR
37	Gin 02	2.3	1.5	3.0	4.0	2.7	1.5-4.0	MR
38	BH 412140	2.0	1.5	2.3	4.5	2.6	1.5-4.5	MR
39	SAFAL X-2	1.5	2.5	2.5	4.5	2.8	1.5-4.5	MR
40	CMH10-555	1.5	2.0	2.5	3.0	2.3	1.5-3.0	MR
41	CSM 2	2.5	1.5	1.5	3.0	2.1	1.5-3.0	MR
42	Gin 01	2.0	1.0	2.5	3.0	2.1	1.0-3.0	MR
43	IN 8570	1.5	2.0	3.0	3.0	2.4	1.5-3.0	MR
44	Siri -4555	2.0	1.5	2.3	4.0	2.5	1.5-4.0	MR
45	JH 13282	2.0	1.5	3.0	5.0	2.9	1.5-5.0	MR
46	super 1177	2.5	1.0	2.3	4.5	2.6	1.0-4.5	MR
47	JH 12010	2.0	1.0	3.3	4.5	2.7	1.0-4.5	MR
48	Bio-069	2.0	1.5	3.0	3.5	2.5	1.5-3.5	MR
49	JH 13037	2.0	1.5	3.3	3.0	2.5	1.5-3.3	MR
50	VNR 4325	2.0	1.0	2.0	4.5	2.4	1.0-4.5	MR

Contd.

Turcium leaf bilght score (1-5)								
S.No	Genotype	BAJA	ALMO	MAND	ARBH	Av. Score	Range	Reaction
51	NMH 1008	3.3	1.0	4.3	4.0	3.1	1.0-4.3	MS
52	BH 412096	3.0	1.0	2.8	4.5	2.8	1.0-4.5	MR
53	BH 412141	1.5	1.0	3.0	3.0	2.1	1.0-3.0	MR
54	VNR 31862	2.0	1.0	3.5	4.5	2.8	1.0-4.5	MR
55	DMRH 1308	2.0	1.0	2.0	4.0	2.3	1.0-4.0	MR
56	JKMH 4023	1.5	1.0	2.0	3.5	2.0	1.0-3.5	R
57	DAS-MH-106	1.5	1.5	2.3	3.0	2.0	1.5-3.0	R
58	REH 2013-6	2.0	1.0	2.8	4.0	2.5	1.0-4.0	MR
59	JH 13278	2.5	1.0	3.3	4.0	2.7	1.0-4.0	MR
60	PM 14104L	2.0	1.5	3.0	3.5	2.5	1.5-3.5	MR
61	PM 14106L	2.0	1.0	3.3	4.5	2.7	1.0-4.5	MR
62	PMSW 4	2.0	1.5	3.0	5.0	2.9	1.5-5.0	MR
63	JH 13270	2.5	1.0	2.8	4.0	2.6	1.0-4.0	MR
64	IN 8569	1.5	1.5	2.8	3.0	2.2	1.5-3.0	MR
65	HT 51412616	1.5	1.5	2.3	3.0	2.0	1.5-3.0	R
66	KF-110	2.5	3.5	3.5	5.0	3.6	2.5-5.0	MS
67	JH 13249	2.5	3.5	4.3	4.0	3.6	2.5-4.3	MS
68	GK-3118	2.0	2.0	1.8	3.5	2.3	1.8-3.5	MR
69	DMRH 1415	1.5	2.0	2.0	4.5	2.5	1.5-4.5	MR
70	KH-1408	1.5	1.5	2.0	2.5	1.9	1.5-2.5	R
71	GK-3124	2.0	1.5	3.0	4.5	2.8	1.5-4.5	MR
72	115-08-01	1.5	2.0	2.3	3.5	2.3	1.5-3.5	MR
73	SYN 417750	3.8	2.0	2.5	5.0	3.3	2.0-5.0	S
74	JH 13248	4.3	2.5	3.5	5.0	3.8	2.5-5.0	MS
75	IN 8603	2.0	2.0	2.3	3.0	2.3	2.0-3.0	MR
76	CP. 555	1.5	2.5	1.8	3.5	2.3	1.5-3.5	MR

Contd.

Turcium leaf bilght score (1-5)								
S.No	Genotype	BAJA	ALMO	MAND	ARBH	Av. Score	Range	Reaction
77	JH 13044	2.0	1.5	2.3	3.0	2.2	1.5-3.0	MR
78	GH-110204	2.5	3.5	3.3	4.5	3.5	2.5-4.5	MS
79	PMSY -3	2.8	4.0	3.3	4.5	3.6	2.8-4.5	MS
80	MAH-957	1.5	3.0	2.8	4.5	3.0	1.5-4.5	MR
81	GPS -02	3.3	3.0	4.3	3.5	3.5	3.0-4.3	MS
82	GPMH-1111	2.5	4.0	2.5	3.5	3.1	2.5-4.0	MS
83	DMH-7721	2.5	2.0	2.3	4.0	2.7	2.0-4.0	MR
84	HT 51412607	1.5	2.5	2.5	3.0	2.4	1.5-3.0	MR
85	DMH-192	1.5	2.5	2.8	3.0	2.5	1.5-3.0	MR
86	Proline-2404	2.5	2.0	3.0	3.5	2.8	2.0-3.5	MR
87	CMH12-671	2.0	1.5	2.0	4.0	2.4	1.5-4.0	MR
88	CMH 11-618	1.5	1.5	2.3	3.5	2.2	1.5-3.5	MR
89	KMH-3981	1.5	2.0	2.5	3.0	2.3	1.5-3.0	MR
90	GH-110145	1.8	2.0	2.5	4.5	2.7	1.8-4.5	MR
91	NT 8711	1.5	1.5	2.5	3.0	2.1	1.5-3.0	MR
92	Sonam -27	2.0	2.0	2.8	3.0	2.5	2.0-3.0	MR
93	GPS -03	2.0	3.0	2.8	3.0	2.7	2.0-3.0	MR
94	IN 8902	2.5	2.0	3.3	3.5	2.8	2.0-3.5	MR
95	super 6768	2.0	2.0	2.0	3.0	2.3	2.0-3.0	MR
96	PM 14101L	2.5	1.5	2.5	3.5	2.5	1.5-3.5	MR
97	REH 2013-5	2.0	1.5	2.3	3.5	2.3	1.5-3.5	MR
98	DMRH 1416	2.5	1.5	3.0	3.0	2.5	1.5-3.0	MR
99	BH 412131	1.8	2.0	3.0	3.5	2.6	1.8-3.5	MR
100	JH 12150	2.0	2.5	2.5	4.0	2.8	2.0-4.0	MR
101	HKH 423	3.3	3.5	2.3	4.0	3.3	2.3-4.0	MS
102	GPMH-1101	2.0	2.0	3.0	4.0	2.8	2.0-4.0	MR

Contd.

Turcium leaf bilght score (1-5)								
S.No	Genotype	BAJA	ALMO	MAND	ARBH	Av. Score	Range	Reaction
103	VEH 14-1	1.5	2.5	2.5	3.0	2.4	1.5-3.0	MR
104	ADV 1190384	2.3	2.5	2.0	4.5	2.8	2.0-4.5	MR
105	DKC 9125	2.5	2.5	2.8	4.0	3.0	2.5-4.0	MR
106	JH 13023	2.0	2.5	3.0	3.0	2.6	2.0-3.0	MR
107	IN 8903	2.0	2.0	1.5	3.0	2.1	1.5-3.0	MR
108	KH-2192	2.5	3.0	2.3	3.5	2.8	2.3-3.5	MR
109	PRMH-189	2.0	3.5	3.0	4.5	3.3	2.0-4.5	MS
110	DMRH 1411	2.0	3.0	2.3	3.5	2.7	2.0-3.5	MR
111	DMRH 1409	1.8	2.5	1.8	4.5	2.6	1.8-4.5	MR
112	IAHM 2013-12	2.0	2.0	2.8	4.5	2.8	2.0-4.5	MR
113	SAMH-225	1.8	1.5	2.3	3.5	2.3	1.5-3.5	MR
114	PM 14102L	2.0	2.0	2.8	3.5	2.6	2.0-3.5	MR
115	RMH-726	2.0	1.5	2.0	2.5	2.0	1.5-2.5	R
116	PMH 1-C	2.0	2.0	2.8	3.0	2.5	2.0-3.0	MR
117	PMH 3-C	1.8	3.0	3.0	3.0	2.7	1.8-3.0	MR
118	Bio -9681-C	2.0	2.0	3.0	4.5	2.9	2.0-4.5	MR
119	Seedtech 2324-C	2.5	2.0	3.3	4.5	3.0	2.0-4.5	MR
120	HM11-C	1.8	2.0	3.3	-	2.5	1.8-3.3	MR
121	RES. CHECK	-	1.5	1.8	-	1.7	1.5-1.8	R
122	SUS. CHECK	4.3	4.0	4.0	3.0	3.8	3.0-4.3	MS
123	LOCAL CHECK	4.8	-	-	-	4.8	4.8	S

Resistant Check : TLB:- V373 (ALMORA); NITHYASHREE (MANDYA)

Susceptible Check : TLB:- CM 202 (BAJAURA); DHYARI LOCAL (ALMORA); 219J (MANDYA) CM202 (ARBHAVI)

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MEDI	PANT	DHAU	DELH	BHUB	KARN	Av. Score	Range	Reaction
1	JH 13183	4.4	3.8	3.0	3.0	3.8	2.0	3.3	2.0-4.4	MS
2	MAH-974	4.0	4.0	2.5	3.0	3.0	2.7	3.2	2.5-4.0	MS
3	K-25 Gold	4.3	4.3	4.0	3.5	2.3	2.0	3.4	2.0-4.3	MS
4	IN 8602	4.1	3.8	2.0	3.0	2.8	2.2	3.0	2.0-4.1	MR
5	PM 14105L	4.6	3.8	4.0	3.0	2.5	1.9	3.3	1.9-4.6	MS
6	NMH 1605	3.9	4.5	2.5	3.5	2.3	3.4	3.4	2.3-4.5	MS
7	JH 13197	3.5	3.3	3.5	3.0	2.0	3.3	3.1	2.0-3.5	MS
8	ADV 0990293	4.4	4.0	4.0	3.5	3.3	2.0	3.5	2.0-4.4	MS
9	CSM 1	4.4	4.8	3.5	3.0	3.3	2.0	3.5	2.0-4.8	MS
10	JH 13041	4.2	3.5	3.0	3.0	3.3	3.6	3.4	3.0-4.2	MS
11	Super 777	4.6	4.0	4.0	3.5	2.8	3.1	3.7	2.8-4.6	MS
12	SAMH-378	4.8	3.8	4.5	3.5	2.5	2.0	3.5	2.0-4.8	MS
13	NT 6325	3.6	4.5	3.0	3.5	3.0	2.8	3.4	2.8-4.5	MS
14	GYH-0652	4.5	4.8	4.5	4.0	3.3	4.3	4.2	3.3-4.5	S
15	AMH-3436	3.6	4.0	2.0	3.0	4.5	4.4	3.6	2.0-4.5	MS
16	JH 13045	3.9	3.8	4.5	3.0	4.3	2.0	3.6	2.0-4.5	MS
17	CMH12-667	3.9	3.5	2.0	3.0	3.3	1.9	2.9	1.9-3.9	MR
18	GOLD 1166	3.1	4.5	3.0	3.0	2.0	2.9	3.0	2.0-4.5	MR
19	SriKARN 3033	4.4	4.0	3.0	3.5	2.8	2.1	3.3	2.1-4.4	MS
20	DMRH 1413	3.9	5.0	4.5	3.0	3.3	1.8	3.6	1.8-5.0	MS
21	DAS-MH-107	4.1	4.5	3.5	3.0	2.3	2.9	3.4	2.3-4.5	MS
22	AH 7005	4.5	4.5	3.0	3.0	2.0	1.6	3.2	1.6-5.0	MS
23	HKH 422	3.2	3.8	4.0	3.5	3.0	2.6	3.3	2.6-4.0	MS
24	REH 2013-2	4.4	3.8	3.0	4.0	3.8	2.2	3.5	2.2-4.4	MS

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MEDI	PANT	DHAU	DELH	BHUB	KARN	Av. Score	Range	Reaction
25	JH 13244	3.5	3.8	2.0	3.0	2.5	2.1	2.8	2.1-3.8	MR
26	JH 12063	2.9	2.8	2.0	3.0	2.8	1.6	2.5	1.6-3.0	MR
27	NMH-1247	4.4	4.5	3.0	3.5	4.3	1.8	3.6	1.8-4.5	MS
28	JH 13094	4.0	4.0	3.0	3.0	3.3	3.1	3.4	3.0-4.0	MS
29	JH 13252	4.3	3.8	2.5	3.5	4.3	2.0	3.4	2.0-4.3	MS
30	CMH 12-663	-	4.3	4.0	3.0	2.5	2.0	3.2	2.0-4.3	MS
31	NT 8441	4.6	4.3	3.5	3.5	3.0	3.4	3.7	3.0-4.6	MS
32	BH 412095	4.2	5.0	4.5	3.5	2.8	3.5	3.9	2.8-5.0	MS
33	JKMH 4242	4.1	3.8	3.0	3.5	2.8	3.4	3.4	2.8-4.1	MS
34	HT 51412373	-	4.0	4.0	3.5	2.3	1.8	3.1	1.8-4.0	MS
35	ADV 0990296	2.3	4.5	4.0	3.0	2.3	4.3	3.4	2.3-4.5	MS
36	JH 13230	2.4	3.3	2.5	2.5	2.7	2.6	2.7	2.4-3.3	MR
37	Gin 02	4.4	4.0	2.5	3.0	2.5	2.2	3.1	2.2-4.4	MS
38	BH 412140	3.8	4.0	2.0	3.0	2.0	2.1	2.8	2.0-4.0	MR
39	SAFAL X-2	4.6	4.3	3.5	3.0	3.3	2.2	3.5	2.2-4.6	MS
40	CMH10-555	3.5	4.0	2.5	3.0	2.3	1.8	2.9	1.8-4.0	MR
41	CSM 2	4.4	4.5	3.0	3.0	2.5	3.4	3.5	2.5-4.5	MS
42	Gin 01	4.5	3.8	4.0	3.0	2.0	2.0	3.2	2.0-4.5	MS
43	IN 8570	3.0	3.8	3.5	2.0	3.3	1.8	2.9	1.8-3.8	MR
44	Siri -4555	4.0	3.8	3.0	3.0	3.0	1.2	3.0	1.2-4.0	MR
45	JH 13282	4.1	4.0	2.0	3.5	3.5	2.5	3.3	2.0-4.1	MS
46	super 1177	3.0	4.0	3.0	3.0	2.5	2.7	3.0	2.5-4.0	MR
47	JH 12010	2.5	3.8	3.0	3.0	3.0	2.5	3.0	2.5-3.8	MR
48	Bio-069	3.3	4.8	2.0	3.5	3.3	1.8	3.1	1.8-4.8	MS
49	JH 13037	4.3	4.3	3.5	3.0	3.5	1.8	3.4	1.8-4.3	MS
50	VNR 4325	4.6	4.8	4.0	3.5	3.3	2.1	3.7	2.1-4.8	MS

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MEDI	PANT	DHAU	DELH	BHUB	KARN	Av. Score	Range	Reaction
51	NMH 1008	3.1	4.5	3.0	3.5	2.5	1.8	3.0	1.8-4.5	MR
52	BH 412096	3.3	4.5	3.0	3.0	2.0	2.0	3.0	2.0-4.5	MR
53	BH 412141	4.7	3.8	3.0	2.5	3.8	1.8	3.3	1.8-4.7	MS
54	VNR 31862	4.5	4.0	4.0	3.5	2.5	2.2	3.5	2.2-4.5	MS
55	DMRH 1308	3.1	4.3	3.5	3.0	3.3	2.4	3.3	2.4-4.3	MS
56	JKMH 4023	4.2	4.5	2.0	3.0	3.5	2.0	3.2	2.0-4.5	MS
57	DAS-MH-106	4.3	3.3	3.0	3.5	2.3	2.6	3.2	2.3-4.3	MS
58	REH 2013-6	4.3	3.8	2.5	3.0	4.0	2.5	3.3	2.5-4.3	MS
59	JH 13278	4.3	3.8	3.5	3.0	3.3	2.6	3.4	2.6-4.3	MS
60	PM 14104L	4.3	4.5	4.0	3.5	4.0	3.2	3.9	3.2-4.5	MS
61	PM 14106L	3.9	3.5	3.0	3.0	2.5	1.6	2.9	1.6-3.9	MR
62	PMSW 4	4.5	4.8	4.0	4.0	4.3	2.6	4.0	2.6-4.8	MS
63	JH 13270	4.3	3.8	3.5	3.5	3.5	2.2	3.5	2.2-4.3	MS
64	IN 8569	3.5	3.3	3.0	3.0	3.5	1.8	3.0	1.8-3.5	MR
65	HT 51412616	4.6	4.8	3.0	3.0	2.5	2.4	3.4	2.4-4.8	MS
66	KF-110	5.0	4.8	3.5	3.0	3.0	3.4	3.8	3.0-5.0	MS
67	JH 13249	4.1	2.3	3.0	3.0	4.3	3.4	3.3	2.3-4.3	MS
68	GK-3118	4.3	3.8	3.0	2.5	3.0	3.0	3.3	2.5-4.3	MS
69	DMRH 1415	4.6	4.8	3.5	3.5	3.0	2.6	3.7	2.6-4.8	MS
70	KH-1408	4.3	4.0	4.0	3.0	2.8	2.6	3.5	2.6-4.3	MS
71	GK-3124	4.6	4.3	3.0	3.0	3.3	2.2	3.4	2.2-4.6	MS
72	115-08-01	4.3	4.3	3.0	3.0	2.8	1.6	3.2	1.6-4.3	MS
73	SYN 417750	4.5	4.3	2.0	3.5	3.5	2.0	3.3	2.0-4.5	MS
74	JH 13248	4.3	4.0	2.0	3.0	3.8	2.2	3.2	2.0-4.3	MS
75	IN 8603	3.3	4.0	3.5	3.5	3.8	4.0	3.7	3.5-4.0	MS
76	CP. 555	3.3	3.8	2.0	3.0	2.8	1.8	2.8	1.8-3.8	MR

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MEDI	PANT	DHAU	DELH	BHUB	KARN	Av. Score	Range	Reaction
77	JH 13044	2.1	3.8	2.0	3.0	2.5	2.0	2.6	2.0-3.8	MR
78	GH-110204	4.3	4.8	2.0	4.5	4.0	2.6	3.7	2.0-4.8	MS
79	PMSY -3	4.3	4.5	4.0	3.0	3.5	4.0	3.9	3.0-4.5	MS
80	MAH-957	4.5	3.8	3.0	3.0	3.3	4.3	3.6	3.0-4.5	MS
81	GPS -02	4.1	3.8	4.0	3.0	2.3	1.6	3.1	1.6-4.1	MS
82	GPMH-1111	4.5	4.8	4.0	3.5	3.3	2.0	3.7	2.0-4.8	MS
83	DMH-7721	4.1	4.0	3.0	3.0	2.0	2.2	3.0	2.0-4.1	MR
84	HT 51412607	4.2	4.0	4.0	3.0	3.5	3.6	3.7	3.0-4.2	MS
85	DMH-192	4.1	4.0	3.0	3.5	3.5	2.2	3.4	2.2-4.1	MS
86	Proline-2404	4.4	4.5	3.5	3.5	4.3	2.0	3.7	2.0-4.5	MS
87	CMH12-671	3.3	3.8	3.5	3.0	3.0	2.0	3.1	2.0-3.8	MS
88	CMH 11-618	3.6	3.3	3.0	3.5	2.3	2.6	3.0	2.3-3.6	MR
89	KMH-3981	4.3	2.8	3.5	3.5	4.3	2.4	3.5	2.4-4.3	MS
90	GH-110145	3.2	4.0	3.5	3.5	3.0	3.8	3.5	3.0-4.0	MS
91	NT 8711	4.7	4.0	4.0	3.5	2.0	2.0	3.4	2.0-4.7	MS
92	Sonam -27	4.4	5.0	4.0	3.5	4.3	3.0	4.0	3.0-5.0	MS
93	GPS -03	4.1	3.5	2.5	3.0	2.5	3.0	3.1	2.5-4.1	MS
94	IN 8902	3.3	3.5	4.0	3.5	2.5	1.8	3.1	1.8-4.0	MS
95	super 6768	2.3	4.3	4.0	3.0	2.0	3.2	3.1	2.0-4.3	MS
96	PM 14101L	4.4	4.8	3.0	2.5	3.3	1.9	3.3	1.9-4.8	MS
97	REH 2013-5	4.6	4.8	4.0	4.0	4.3	3.2	4.1	3.2-4.8	S
98	DMRH 1416	3.5	4.5	4.0	3.5	4.0	3.8	3.9	3.5-4.5	MS
99	BH 412131	3.6	4.0	3.0	3.5	4.3	3.4	3.6	3.0-4.3	MS
100	JH 12150	4.1	3.8	3.0	3.0	2.3	2.2	3.0	2.2-4.1	MR
101	HKH 423	3.3	4.3	4.0	3.0	2.5	2.2	3.2	2.2-4.3	MS
102	GPMH-1101	4.7	4.5	3.0	4.0	3.8	2.0	3.7	2.0-4.7	MS

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MEDI	PANT	DHAU	DELH	BHUB	KARN	Av. Score	Range	Reaction
103	VEH 14-1	3.3	3.8	3.5	3.0	2.5	2.2	3.0	2.2-3.8	MR
104	ADV 1190384	2.2	4.0	4.0	3.0	3.5	3.0	3.3	2.2-4.0	MS
105	DKC 9125	4.5	4.0	4.0	3.0	3.0	3.0	3.6	3.0-4.5	MS
106	JH 13023	4.6	4.0	3.5	3.0	4.3	2.2	3.6	2.2-4.6	MS
107	IN 8903	4.6	4.8	3.5	3.0	2.5	2.2	3.4	2.2-4.8	MS
108	KH-2192	4.3	4.3	4.0	3.5	2.8	1.8	3.4	1.8-4.3	MS
109	PRMH-189	4.2	4.3	4.0	3.0	3.0	2.2	3.4	2.2-4.3	MS
110	DMRH 1411	3.0	4.3	3.5	3.0	3.5	2.8	3.3	2.8-4.3	MS
111	DMRH 1409	4.5	2.0	2.5	2.5	3.3	2.0	2.8	2.0-4.5	MR
112	IAHM 2013-12	3.2	4.5	4.0	3.0	3.3	2.4	3.4	2.4-4.5	MS
113	SAMH-225	4.4	4.8	3.0	3.0	4.3	3.0	3.7	3.0-4.8	MS
114	PM 14102L	2.4	3.8	3.5	3.0	2.8	2.2	2.9	2.2-3.8	MR
115	RMH-726	2.3	5.0	2.0	3.5	3.0	3.0	3.1	2.0-5.0	MS
116	PMH 1-C	4.4	3.3	2.0	3.5	3.3	2.0	3.0	2.0-4.4	MR
117	PMH 3-C	4.5	3.8	2.0	3.0	3.0	2.0	3.0	2.0-4.5	MR
118	Bio -9681-C	4.3	4.0	2.0	4.0	3.0	4.0	3.6	2.0-4.3	MS
119	Seedtech 2324-C	4.2	4.0	3.0	3.5	2.8	2.2	3.3	2.2-4.2	MS
120	HM11-C	4.8	3.3	4.0	3.0	2.8	2.2	3.3	2.2-4.8	MS
121	RES. CHECK	-	-	-	-	-	1.3	1.3	1.3	R
122	SUS. CHECK	-	5.0	4.0	4.5	4.3	4.1	4.4	4.0-5.0	S

Resistant Check : BLSB:- HQPM 1 (KARNAL)

**Susceptible Check : BLSB:- AMAR (PANTNAGAR); CML 186 (DHAULAKUAN); CM501 (DELHI);
P3441 (BHUBNESWAR); HKI 1105+ HKI 536CBT (KARNAL)**

Contd.

S.No	Genotype	P.RUST (1-5)		C.RUST (1-5)		Charcol rot score (1-9)			Reaction	
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE	Av. Score Range		
1	JH 13183	3.3	S	3.0	MS	5.7	1.8	3.8	1.8-5.7	MR
2	MAH-974	2.5	MS	3.5	S	3.8	1.8	2.8	1.8-3.8	R
3	K-25 Gold	3.3	S	3.5	S	7.2	4.3	5.7	4.3-7.2	MS
4	IN 8602	2.0	MR	3.0	MS	3.8	1.9	2.8	1.9-3.8	R
5	PM 14105L	2.0	MR	4.0	S	5.3	4.0	4.7	4.0-5.3	MR
6	NMH 1605	3.5	S	2.5	MS	3.9	1.4	2.7	1.4-3.9	R
7	JH 13197	2.0	MR	4.0	S	4.1	2.1	3.1	2.1-4.1	MR
8	ADV 0990293	2.3	MS	2.0	MR	5.9	1.5	3.7	1.5-5.9	MR
9	CSM 1	3.0	MS	4.0	S	6.4	3.6	5.0	3.6-6.4	MR
10	JH 13041	2.3	MS	5.0	HS	5.4	1.6	3.5	1.6-5.4	MR
11	Super 777	3.5	S	4.0	S	7.3	5.0	6.2	5.0-7.3	MS
12	SAMH-378	2.8	MS	3.0	MS	5.6	4.1	4.8	4.1-5.6	MR
13	NT 6325	3.0	MS	3.0	MS	4.2	2.1	3.1	2.1-4.2	MR
14	GYH-0652	4.3	HS	4.0	S	7.0	3.7	5.3	3.7-7.0	MS
15	AMH-3436	2.3	MS	2.5	MS	6.0	1.6	3.8	1.6-6.0	MR
16	JH 13045	2.8	MS	3.0	MS	6.5	4.2	5.3	4.2-6.5	MS
17	CMH12-667	3.0	MS	2.0	MR	5.0	1.4	3.2	1.4-5.0	MR
18	GOLD 1166	1.8	MR	4.0	S	5.4	4.0	4.7	4.0-5.4	MR
19	SriKARN 3033	1.8	MR	3.0	MS	6.5	1.8	4.1	1.8-6.5	MR
20	DMRH 1413	2.5	MS	4.0	S	7.9	4.2	6.0	4.2-7.9	MS
21	DAS-MH-107	2.3	MS	4.0	S	7.0	4.8	5.9	4.8-7.0	MS
22	AH 7005	3.3	S	3.0	MS	4.9	1.4	3.1	1.4-4.9	MR
23	HKH 422	3.3	S	4.0	S	4.7	1.7	3.2	1.7-4.7	MR
24	REH 2013-2	3.3	S	4.0	S	5.9	3.0	4.4	3.0-5.9	MR

Contd.

S.No	Genotype	P.RUST (1-5)		C.RUST (1-5)		Charcol rot score (1-9)			Reaction	
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE	Av. Score Range		
25	JH 13244	2.5	MS	3.0	MS	5.0	1.4	3.2	1.4-5.0	MR
26	JH 12063	3.0	MS	3.0	MS	3.6	1.6	2.6	1.6-3.6	R
27	NMH-1247	3.0	MS	3.0	MS	7.9	1.5	4.7	1.5-7.9	MR
28	JH 13094	3.3	S	3.0	MS	5.6	2.1	3.8	2.1-5.6	MR
29	JH 13252	2.8	MS	3.0	MS	4.9	1.7	3.3	1.7-4.9	MR
30	CMH 12-663	3.5	S	2.0	MR	7.0	2.4	4.7	2.4-7.0	MR
31	NT 8441	2.0	MR	3.0	MS	5.3	1.3	3.3	1.3-5.3	MR
32	BH 412095	2.8	MS	3.5	S	6.3	1.4	3.9	1.4-6.3	MR
33	JKMH 4242	2.5	MS	3.0	MS	6.6	3.3	5.0	3.3-6.6	MR
34	HT 51412373	2.0	MR	3.5	S	3.3	1.6	2.4	1.6-3.3	R
35	ADV 0990296	1.8	MR	4.0	S	4.5	1.7	3.1	1.7-4.5	MR
36	JH 13230	2.8	MS	2.5	MS	4.2	3.6	3.9	3.6-4.2	MR
37	Gin 02	2.5	MS	3.0	MS	4.1	2.2	3.2	2.2-4.1	MR
38	BH 412140	4.5	HS	4.0	S	5.0	1.4	3.2	1.4-5.0	MR
39	SAFAL X-2	2.3	MS	3.0	MS	5.7	1.2	3.5	1.2-5.7	MR
40	CMH10-555	2.0	MR	3.5	S	4.9	1.3	3.1	1.3-4.9	MR
41	CSM 2	2.5	MS	2.5	MS	5.2	1.9	3.5	1.9-5.2	MR
42	Gin 01	2.3	MS	3.5	S	6.0	1.6	3.8	1.6-6.0	MR
43	IN 8570	2.5	MS	4.0	S	4.5	1.2	2.9	1.2-4.5	R
44	Siri -4555	3.5	S	4.0	S	6.6	3.9	5.3	3.9-6.6	MS
45	JH 13282	4.3	HS	3.5	S	3.9	1.7	2.8	1.7-3.9	R
46	super 1177	1.8	MR	4.0	S	5.1	5.4	5.3	5.1-5.4	MS
47	JH 12010	3.3	S	4.5	HS	5.6	1.9	3.7	1.9-5.6	MR
48	Bio-069	2.3	MS	2.0	MR	7.1	1.3	4.2	1.3-7.1	MR
49	JH 13037	3.0	MS	1.5	MR	7.9	1.6	4.8	1.6-7.9	MR
50	VNR 4325	2.3	MS	2.5	MS	4.9	1.6	3.2	1.6-4.9	MR

Contd.

S.No	Genotype	P.RUST (1-5)		C.RUST (1-5)		Charcol rot score (1-9)			Reaction	
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE	Av. Score Range		
51	NMH 1008	2.3	MS	2.5	MS	6.5	2.1	4.3	2.1-6.5	MR
52	BH 412096	4.5	HS	3.5	S	6.2	1.8	4.0	1.8-6.2	MR
53	BH 412141	2.8	MS	2.0	MR	5.3	1.3	3.3	1.3-5.3	MR
54	VNR 31862	2.5	MS	3.5	S	7.3	1.5	4.4	1.5-7.3	MR
55	DMRH 1308	3.0	MS	3.5	S	4.7	1.2	3.0	1.2-4.7	R
56	JKMH 4023	2.5	MS	3.0	MS	6.6	2.3	4.5	2.3-6.6	MR
57	DAS-MH-106	2.3	MS	3.5	S	4.7	1.7	3.2	1.7-4.7	MR
58	REH 2013-6	2.3	MS	3.0	MS	6.5	1.6	4.0	1.6-6.5	MR
59	JH 13278	3.3	S	4.0	S	4.6	1.5	3.0	1.5-4.6	R
60	PM 14104L	2.3	MS	4.0	S	3.9	1.3	2.6	1.3-3.9	R
61	PM 14106L	3.0	MS	4.0	S	6.5	1.3	3.9	1.3-6.5	MR
62	PMSW 4	2.8	MS	4.5	HS	6.8	1.5	4.1	1.5-6.8	MR
63	JH 13270	2.5	MS	4.5	HS	2.8	1.9	2.3	1.9-2.8	R
64	IN 8569	2.3	MS	3.0	MS	4.0	1.4	2.7	1.4-4.0	R
65	HT 51412616	2.3	MS	2.5	MS	5.0	2.0	3.5	2.0-5.0	MR
66	KF-110	4.3	HS	4.5	HS	7.2	4.7	5.9	4.7-7.2	MS
67	JH 13249	4.3	HS	3.5	S	4.6	1.1	2.9	1.1-4.6	R
68	GK-3118	2.3	MS	2.0	MR	5.6	2.0	3.8	2.0-5.6	MR
69	DMRH 1415	2.8	MS	3.0	MS	6.3	1.6	3.9	1.6-6.3	MR
70	KH-1408	3.0	MS	3.5	S	4.5	2.2	3.3	2.2-4.5	MR
71	GK-3124	2.3	MS	3.0	MS	6.1	1.4	3.7	1.4-6.1	MR
72	115-08-01	2.0	MR	3.0	MS	4.1	1.7	2.9	1.7-4.1	R
73	SYN 417750	3.3	S	4.0	S	6.5	4.0	5.3	4.0-6.5	MS
74	JH 13248	3.3	S	3.0	MS	4.1	1.3	2.7	1.3-4.1	R
75	IN 8603	1.8	MR	5.0	HS	4.2	1.4	2.8	1.4-4.2	R
76	CP. 555	2.8	MS	3.0	MS	5.7	4.0	4.8	4.0-5.7	MR

Contd.

S.No	Genotype	P.RUST (1-5)		C.RUST (1-5)		Charcol rot score (1-9)			Reaction	
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE	Av. Score Range		
77	JH 13044	2.8	MS	2.5	MS	4.6	5.4	5.0	4.6-5.4	MR
78	GH-110204	3.3	S	3.5	S	6.3	1.3	3.8	1.3-6.3	MR
79	PMSY -3	3.0	MS	4.0	S	5.8	2.3	4.0	2.3-5.8	MR
80	MAH-957	2.8	MS	3.0	MS	5.8	1.5	3.6	1.5-5.8	MR
81	GPS -02	3.3	S	4.5	HS	7.6	4.3	5.9	4.3-7.6	MS
82	GPMH-1111	2.8	MS	2.0	MR	6.0	1.8	3.9	1.8-6.0	MR
83	DMH-7721	2.5	MS	2.5	MS	3.8	1.7	2.7	1.7-3.8	R
84	HT 51412607	1.8	MR	4.0	S	4.1	1.4	2.8	1.4-4.1	R
85	DMH-192	1.8	MR	-	-	3.6	4.4	4.0	3.6-4.4	MR
86	Proline-2404	2.3	MS	2.5	MS	4.7	1.5	3.1	1.5-4.7	MR
87	CMH12-671	2.8	MS	3.0	MS	6.4	2.1	4.2	2.1-6.4	MR
88	CMH 11-618	2.8	MS	4.0	S	6.3	2.6	4.5	2.6-6.3	MR
89	KMH-3981	2.3	MS	3.0	MS	5.3	1.5	3.4	1.5-5.3	MR
90	GH-110145	3.0	MS	2.0	MR	6.9	2.3	4.6	2.3-6.9	MR
91	NT 8711	2.3	MS	2.5	MS	5.0	4.6	4.8	4.6-5.0	MR
92	Sonam -27	3.8	S	3.5	S	4.7	1.4	3.0	1.4-4.7	R
93	GPS -03	2.0	MR	3.0	MS	5.5	1.6	3.6	1.6-5.5	MR
94	IN 8902	2.5	MS	2.5	MS	4.8	1.9	3.4	1.9-4.8	MR
95	super 6768	3.3	S	4.0	S	7.6	2.1	4.8	2.1-7.6	MR
96	PM 14101L	2.8	MS	2.0	MR	3.9	1.7	2.8	1.7-3.9	R
97	REH 2013-5	2.8	MS	3.0	MS	6.0	1.4	3.7	1.4-6.0	MR
98	DMRH 1416	2.5	MS	4.5	HS	4.7	1.4	3.0	1.4-4.7	R
99	BH 412131	3.0	MS	3.5	S	3.8	1.4	2.6	1.4-3.8	R
100	JH 12150	2.8	MS	3.5	S	4.5	1.5	3.0	1.5-4.5	R
101	HKH 423	2.3	MS	3.0	MS	4.7	4.6	4.6	4.6-4.7	MR
102	GPMH-1101	4.0	S	4.0	S	5.9	2.1	4.0	2.1-5.9	MR

Contd.

S.No	Genotype	P.RUST (1-5)		C.RUST (1-5)		Charcol rot score (1-9)			Reaction	
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE	Av. Score Range		
103	VEH 14-1	3.3	S	3.0	MS	4.7	1.8	3.3	1.8-4.7	MR
104	ADV 1190384	2.0	MR	4.0	S	4.9	4.6	4.8	4.6-4.9	MR
105	DKC 9125	2.8	MS	3.0	MS	5.0	1.4	3.2	1.4-5.0	MR
106	JH 13023	3.3	S	3.0	MS	3.8	1.6	2.7	1.6-3.8	R
107	IN 8903	1.8	MR	4.0	S	5.3	1.8	3.5	1.8-5.3	MR
108	KH-2192	2.5	MS	4.0	S	5.3	2.2	3.7	2.2-5.3	MR
109	PRMH-189	3.0	MS	-	-	7.2	1.3	4.2	1.3-7.2	MR
110	DMRH 1411	3.0	MS	4.0	S	4.7	2.2	3.4	2.2-4.7	MR
111	DMRH 1409	4.0	S	4.0	S	6.0	1.4	3.7	1.4-6.0	MR
112	IAHM 2013-12	3.5	S	3.0	MS	7.0	5.4	6.2	5.4-7.0	MS
113	SAMH-225	2.0	MR	4.0	S	6.3	1.3	3.8	1.3-6.3	MR
114	PM 14102L	2.8	MS	4.0	S	3.9	1.8	2.9	1.8-3.9	R
115	RMH-726	2.8	MS	3.5	S	4.5	1.9	3.2	1.9-4.5	MR
116	PMH 1-C	2.5	MS	3.5	S	3.8	1.4	2.6	1.4-3.8	R
117	PMH 3-C	2.3	MS	3.5	S	4.4	1.5	2.9	1.5-4.4	R
118	Bio -9681-C	2.5	MS	4.0	S	4.7	4.6	4.6	4.6-4.7	MR
119	Seedtech 2324-C	2.8	MS	3.0	MS	5.4	1.7	3.5	1.7-5.4	MR
120	HM11-C	2.5	MS	-	S	5.2	1.8	3.5	1.8-5.2	MR
121	RES. CHECK	2.3	MS	-	-	-	2.7	2.7	2.7	R
122	SUS. CHECK	4.3	HS	3.5	S	7.5	5.8	6.6	5.8-7.5	MS

Resistant Check : P. RUST:- NITHYASHREE (MANDYA); C. ROT:- JCY 2-7 (HYDERABAD)

**Susceptible Check : P. RUST :- 219J (MANDYA); C.RUST:- CM 202 (ARBHAVI)
C. ROT:- CM 600 (LUDHIANA); BML 6 (HYDERABAD)**

Contd.

S.No	Genotype	Fusarium stalk		Sorghum downy			Rajasthan downy	
		rot score (1-9)	Reaction	MAND	COIM*	Reaction	mildew score (%)	Reaction
1	JH 13183	2.7	R	81.0	7.5	S	0.0	R
2	MAH-974	5.1	MS	72.4	0.0	S	33.0	MS
3	K-25 Gold	3.6	MR	75.8	5.0	S	13.0	MR
4	IN 8602	3.6	MR	85.2	20.0	S	0.0	R
5	PM 14105L	4.1	MR	94.6	20.0	S	0.0	R
6	NMH 1605	3.5	MR	86.9	15.0	S	20.0	MR
7	JH 13197	3.8	MR	74.2	22.5	S	15.0	MR
8	ADV 0990293	3.7	MR	61.9	22.5	S	43.0	MS
9	CSM 1	4.4	MR	92.9	12.5	S	54.0	S
10	JH 13041	3.4	MR	44.9	30.0	S	50.0	MS
11	Super 777	4.2	MR	80.0	17.5	S	57.0	S
12	SAMH-378	4.6	MR	100.0	7.5	S	50.0	MS
13	NT 6325	4.6	MR	100.0	15.0	S	67.0	S
14	GYH-0652	3.4	MR	100.0	5.0	S	67.0	S
15	AMH-3436	3.4	MR	100.0	10.0	S	37.0	MS
16	JH 13045	3.2	MR	90.5	22.5	S	13.0	MR
17	CMH12-667	3.2	MR	97.4	0.0	S	14.0	MR
18	GOLD 1166	5.0	MR	98.8	0.0	S	30.0	MS
19	SriKARN 3033	5.2	MS	92.5	7.5	S	26.0	MS
20	DMRH 1413	3.0	R	100.0	5.0	S	33.0	MS
21	DAS-MH-107	3.6	MR	96.9	5.0	S	12.0	MR
22	AH 7005	3.1	MR	100.0	17.5	S	75.0	S
23	HKH 422	3.6	MR	91.9	7.5	S	90.0	S
24	REH 2013-2	3.8	MR	90.7	0.0	S	60.0	S

Contd.

S.No	Genotype	Fusarium stalk		Sorghum downy			Rajasthan downy	
		rot score (1-9)		mildew score (%)			mildew score (%)	
		UDAI	Reaction	MAND	COIM*	Reaction	UDAI	Reaction
25	JH 13244	5.3	MS	63.0	0.0	S	50.0	MS
26	JH 12063	4.1	MR	23.9	5.0	MR	85.0	S
27	NMH-1247	5.4	MS	100.0	15.0	S	77.0	S
28	JH 13094	4.4	MR	100.0	25.0	S	42.0	MS
29	JH 13252	4.4	MR	90.9	2.5	MS	67.0	S
30	CMH 12-663	5.1	MS	92.6	15.0	S	15.0	MR
31	NT 8441	4.9	MR	95.0	7.5	S	40.0	MS
32	BH 412095	4.2	MR	98.3	0.0	S	83.0	S
33	JKMH 4242	5.7	MS	100.0	0.0	S	70.0	S
34	HT 51412373	6.0	MS	60.9	0.0	S	-	-
35	ADV 0990296	4.0	MR	44.9	17.5	MS	50.0	MS
36	JH 13230	4.9	MR	34.4	5.0	MS	90.0	S
37	Gin 02	4.6	MR	98.4	0.0	S	6.0	R
38	BH 412140	6.3	MS	100.0	0.0	S	33.0	MS
39	SAFAL X-2	8.1	S	76.1	10.0	S	6.0	R
40	CMH10-555	7.8	S	100.0	0.0	S	20.0	MR
41	CSM 2	5.6	MS	97.4	30.0	S	17.0	MR
42	Gin 01	7.4	S	98.1	15.0	S	10.0	R
43	IN 8570	5.3	MS	49.8	17.5	MS	0.0	R
44	Siri -4555	5.4	MS	100.0	12.5	S	57.0	S
45	JH 13282	7.6	S	100.0	42.5	S	63.0	S
46	super 1177	2.8	R	100.0	25.0	S	0.0	R
47	JH 12010	7.2	S	100.0	30.0	S	9.0	R
48	Bio-069	3.7	MR	100.0	25.0	S	20.0	MR
49	JH 13037	8.0	S	43.1	15.0	MS	17.0	MR
50	VNR 4325	4.5	MR	83.2	10.0	S	0.0	R

Contd.

S.No	Genotype	Fusarium stalk		Sorghum downy			Rajasthan downy	
		rot score (1-9)	Reaction	MAND	COIM*	Reaction	mildew score (%)	Reaction
51	NMH 1008	7.4	S	100.0	35.0	S	37.0	MS
52	BH 412096	7.1	S	100.0	17.5	S	44.0	MS
53	BH 412141	5.0	MR	100.0	15.0	S	0.0	R
54	VNR 31862	7.1	S	86.1	5.0	S	0.0	R
55	DMRH 1308	8.6	S	94.8	30.0	S	33.0	MS
56	JKMH 4023	3.4	MR	100.0	50.0	S	40.0	MS
57	DAS-MH-106	6.4	MS	100.0	27.5	S	91.0	S
58	REH 2013-6	6.6	MS	100.0	15.0	S	91.0	S
59	JH 13278	3.1	MR	100.0	20.0	S	90.0	S
60	PM 14104L	3.7	MR	100.0	25.0	S	70.0	S
61	PM 14106L	5.1	MS	100.0	25.0	S	70.0	S
62	PMSW 4	7.5	S	100.0	17.5	S	21.0	MR
63	JH 13270	1.8	R	94.9	10.0	S	14.0	MR
64	IN 8569	2.7	R	89.4	17.5	S	0.0	R
65	HT 51412616	3.6	MR	92.4	10.0	S	10.0	R
66	KF-110	7.2	S	100.0	5.0	S	90.0	S
67	JH 13249	4.2	MR	100.0	25.0	S	92.0	S
68	GK-3118	3.8	MR	96.9	0.0	S	6.0	R
69	DMRH 1415	3.7	MR	81.8	5.0	S	43.0	MS
70	KH-1408	4.6	MR	77.5	0.0	S	13.0	MR
71	GK-3124	7.2	S	29.3	12.5	MS	0.0	R
72	115-08-01	3.6	MR	25.0	10.0	MS	0.0	R
73	SYN 417750	6.4	MS	97.1	5.0	S	73.0	S
74	JH 13248	2.4	R	100.0	10.0	S	15.0	MR
75	IN 8603	4.0	MR	93.8	5.0	S	0.0	R
76	CP. 555	3.0	R	46.0	10.0	MS	0.0	R

Contd.

S.No	Genotype	Fusarium stalk		Sorghum downy			Rajasthan downy	
		rot score (1-9)	Reaction	MAND	COIM*	Reaction	mildew score (%)	Reaction
77	JH 13044	3.5	MR	16.6	5.0	MR	27.0	MS
78	GH-110204	3.3	MR	97.4	2.5	S	30.0	MS
79	PMSY -3	4.4	MR	100.0	25.0	S	31.0	MS
80	MAH-957	4.4	MR	83.8	0.0	S	0.0	R
81	GPS -02	3.1	MR	100.0	0.0	S	86.0	S
82	GPMH-1111	3.7	MR	100.0	0.0	S	20.0	MR
83	DMH-7721	4.2	MR	100.0	10.0	S	13.0	MR
84	HT 51412607	3.5	MR	93.1	25.0	S	0.0	R
85	DMH-192	3.2	MR	90.7	20.0	S	0.0	R
86	Proline-2404	6.6	MS	100.0	0.0	S	0.0	R
87	CMH12-671	4.8	MR	91.7	5.0	S	7.0	R
88	CMH 11-618	3.9	MR	95.0	0.0	S	0.0	R
89	KMH-3981	3.6	MR	82.2	0.0	S	0.0	R
90	GH-110145	4.3	MR	90.7	2.5	S	71.0	S
91	NT 8711	5.9	MS	90.9	5.0	S	50.0	MS
92	Sonam -27	3.6	MR	100.0	10.0	S	40.0	MS
93	GPS -03	2.3	R	100.0	0.0	S	44.0	MS
94	IN 8902	3.8	MR	84.4	10.0	S	0.0	R
95	super 6768	3.5	MR	98.3	40.0	S	29.0	MS
96	PM 14101L	3.2	MR	90.6	27.5	S	0.0	R
97	REH 2013-5	4.4	MR	85.0	12.5	S	0.0	R
98	DMRH 1416	2.9	R	100.0	25.0	S	45.0	MS
99	BH 412131	3.8	MR	100.0	20.0	S	17.0	MR
100	JH 12150	3.5	MR	100.0	10.0	S	7.0	R
101	HKH 423	2.9	R	100.0	5.0	S	20.0	MR
102	GPMH-1101	3.3	MR	100.0	10.0	S	0.0	R

Contd.

S.No	Genotype	Fusarium stalk		Sorghum downy			Rajasthan downy	
		rot score (1-9)	UDAI	Reaction	MAND	COIM*	Reaction	UDAI
103	VEH 14-1	3.1	MR	96.2	5.0	S	18.0	MR
104	ADV 1190384	6.5	MS	69.8	0.0	S	6.0	R
105	DKC 9125	3.3	MR	100.0	15.0	S	18.0	MR
106	JH 13023	2.6	R	80.0	0.0	S	7.0	R
107	IN 8903	4.5	MR	97.4	5.0	S	7.0	R
108	KH-2192	3.0	R	100.0	15.0	S	0.0	R
109	PRMH-189	3.1	MR	100.0	0.0	S	32.0	MS
110	DMRH 1411	3.6	MR	100.0	0.0	S	0.0	R
111	DMRH 1409	2.6	R	79.1	15.0	S	17.0	MR
112	IAHM 2013-12	4.8	MR	88.2	12.5	S	23.0	MR
113	SAMH-225	3.4	MR	95.3	0.0	S	39.0	MS
114	PM 14102L	3.4	MR	91.3	20.0	S	7.0	R
115	RMH-726	3.6	MR	91.5	10.0	S	0.0	R
116	PMH 1-C	1.9	R	94.6	40.0	S	0.0	R
117	PMH 3-C	2.7	R	100.0	20.0	S	0.0	R
118	Bio -9681-C	2.7	R	97.8	20.0	S	7.0	R
119	Seedtech 2324-C	3.8	MR	79.6	10.0	S	13.0	MR
120	HM11-C	2.5	R	-	15.0	-	38.0	MS
121	RES. CHECK	-	-	7.5	0.0	R	-	-
122	SUS. CHECK	8.6	S	100.0	60.0	S	95.0	S

Resistant Check : SDM:-NAH 1137 (MANDYA); CoH6 (COMIBATORE)

**Susceptible Check : FSR:- SURYA (UDAIPUR); SDM:- CM 500 (MANDYA); CM 500 (COIMBATORE)
RDM ; SURYA (UDAIPUR)**

* Data not considered due to low disease pressure

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
1	JH 13183	0.0	21.4	10.7	0.0-21.4	MR
2	MAH-974	0.0	15.4	7.7	0.0-15.4	R
3	K-25 Gold	18.8	27.3	23.0	18.8-27.3	MR
4	IN 8602	25.0	18.2	21.6	18.2-25.0	MR
5	PM 14105L	8.3	0.0	4.2	0.0-8.3	R
6	NMH 1605	52.8	28.6	40.7	28.6-52.8	MS
7	JH 13197	4.6	0.0	2.3	0.0-4.6	R
8	ADV 0990293	0.0	20.0	10.0	0.0-20.0	R
9	CSM 1	25.2	15.4	20.3	15.4-25.2	MR
10	JH 13041	18.9	5.3	12.1	5.3-18.9	MR
11	Super 777	10.8	13.3	12.0	10.8-13.3	MR
12	SAMH-378	16.7	33.3	25.0	16.7-33.3	MR
13	NT 6325	0.0	50.0	25.0	0.0-50.0	MR
14	GYH-0652	27.7	28.6	28.1	27.7-28.6	MS
15	AMH-3436	75.0	26.7	50.9	26.7-75.0	S
16	JH 13045	13.6	15.4	14.5	13.6-15.4	MR
17	CMH12-667	0.0	8.3	4.2	0.0-8.3	R
18	GOLD 1166	21.8	16.7	19.3	16.7-21.8	MR
19	SriKARN 3033	47.2	55.6	51.4	47.2-55.6	S
20	DMRH 1413	4.6	42.9	23.7	4.6-42.9	MR
21	DAS-MH-107	7.1	28.6	17.9	7.1-28.6	MR
22	AH 7005	29.7	0.0	14.8	0.0-29.7	MR
23	HKH 422	0.0	12.5	6.3	0.0-12.5	R
24	REH 2013-2	7.1	27.3	17.2	7.1-27.3	MR

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
25	JH 13244	50.0	14.3	32.2	14.3-50.0	MS
26	JH 12063	33.6	0.0	16.8	0.0-33.6	MR
27	NMH-1247	8.3	53.3	30.8	8.3-53.3	MS
28	JH 13094	0.0	25.0	12.5	0.0-25.0	MR
29	JH 13252	48.1	0.0	24.0	0.0-48.1	MR
30	CMH 12-663	7.7	27.8	17.7	7.7-27.8	MR
31	NT 8441	4.6	20.0	12.3	4.6-20.0	MR
32	BH 412095	0.0	28.1	14.0	0.0-28.1	MR
33	JKMH 4242	0.0	5.3	2.7	0.0-5.3	R
34	HT 51412373	4.2	20.0	12.0	4.2-20.0	MR
35	ADV 0990296	34.7	26.3	30.5	26.3-34.7	MS
36	JH 13230	10.0	-	10.0	10.0-10.0	R
37	Gin 02	0.0	23.1	11.6	0.0-23.1	MR
38	BH 412140	52.3	0.0	26.1	0.0-52.3	MS
39	SAFAL X-2	82.9	0.0	41.4	0.0-82.9	MS
40	CMH10-555	5.0	7.7	6.4	5.0-7.7	R
41	CSM 2	18.3	14.3	16.3	14.3-18.3	MR
42	Gin 01	39.6	16.7	28.2	16.7-39.6	MS
43	IN 8570	10.7	9.5	10.1	9.5-10.7	MR
44	Siri -4555	0.0	0.0	0.0	0.0-0.0	R
45	JH 13282	0.0	0.0	0.0	0.0-0.0	R
46	super 1177	10.0	83.3	46.7	10.0-83.3	MS
47	JH 12010	8.3	50.0	29.2	8.3-50.0	MS
48	Bio-069	55.0	15.4	35.2	15.4-55.0	MS
49	JH 13037	4.6	0.0	2.3	0.0-4.6	R
50	VNR 4325	47.7	-	47.7	47.7-47.7	MS

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
51	NMH 1008	0.0	20.3	10.2	0.0-20.3	MR
52	BH 412096	10.0	0.0	5.0	0.0-10.0	R
53	BH 412141	23.7	26.7	25.2	23.7-26.7	MS
54	VNR 31862	0.0	-	0.0	0.0-0.0	R
55	DMRH 1308	66.1	20.3	43.2	20.3-66.1	MS
56	JKMH 4023	14.8	13.7	14.3	13.7-14.8	MR
57	DAS-MH-106	3.9	0.0	1.9	0.0-3.9	R
58	REH 2013-6	12.5	17.6	15.1	12.5-17.6	MR
59	JH 13278	5.6	6.0	5.8	5.6-6.0	R
60	PM 14104L	0.0	7.1	3.6	0.0-7.1	R
61	PM 14106L	32.2	0.0	16.1	0.0-32.2	MR
62	PMSW 4	23.4	46.7	35.0	23.4-46.7	MS
63	JH 13270	0.0	6.7	3.4	0.0-6.7	R
64	IN 8569	3.6	20.0	11.8	3.6-20.0	MR
65	HT 51412616	54.8	6.3	30.5	6.3-54.8	MS
66	KF-110	71.7	36.4	54.0	36.4-71.7	S
67	JH 13249	17.1	14.8	16.0	14.8-17.1	MR
68	GK-3118	24.3	7.1	15.7	7.1-24.3	MR
69	DMRH 1415	41.7	0.0	20.8	0.0-41.7	MR
70	KH-1408	31.0	0.0	15.5	0.0-31.0	MR
71	GK-3124	17.1	13.1	15.1	13.1-17.1	MR
72	115-08-01	22.5	0.0	11.3	0.0-22.5	MR
73	SYN 417750	0.0	6.3	3.2	0.0-6.3	R
74	JH 13248	33.2	7.1	20.1	7.1-33.2	MR
75	IN 8603	0.0	0.0	0.0	0.0-0.0	R
76	CP. 555	33.3	11.8	22.6	11.8-33.3	MR

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
77	JH 13044	6.7	0.0	3.3	0.0-6.7	R
78	GH-110204	76.9	28.6	52.8	28.6-76.9	S
79	PMSY -3	20.8	41.7	31.3	20.8-41.7	MS
80	MAH-957	10.0	13.3	11.7	10.0-13.3	MR
81	GPS -02	23.4	13.3	18.3	13.3-23.4	MR
82	GPMH-1111	50.0	20.0	35.0	20.0-50.0	MS
83	DMH-7721	0.0	14.3	7.2	0.0-14.3	R
84	HT 51412607	42.7	5.0	23.9	5.0-42.7	MR
85	DMH-192	19.8	0.0	9.9	0.0-19.8	R
86	Proline-2404	13.3	0.0	6.7	0.0-13.3	R
87	CMH12-671	0.0	0.0	0.0	0.0-0.0	R
88	CMH 11-618	9.4	7.1	8.2	7.1-9.4	R
89	KMH-3981	3.9	33.3	18.6	3.9-33.3	MR
90	GH-110145	20.0	30.8	25.4	20.0-30.8	MS
91	NT 8711	81.7	30.0	55.8	30.0-81.7	S
92	Sonam -27	46.4	20.0	33.2	20.0-46.4	MS
93	GPS -03	13.9	0.0	6.9	0.0-13.9	R
94	IN 8902	0.0	18.2	9.1	0.0-18.2	R
95	super 6768	29.9	36.4	33.1	29.9-36.4	MS
96	PM 14101L	11.9	5.9	8.9	5.9-11.9	R
97	REH 2013-5	47.2	28.6	37.9	28.6-47.2	MS
98	DMRH 1416	9.1	20.0	14.5	9.1-20.0	MR
99	BH 412131	37.5	25.0	31.3	25.0-37.5	MS
100	JH 12150	0.0	0.0	0.0	0.0-0.0	R
101	HKH 423	8.3	25.0	16.7	8.3-25.0	MR
102	GPMH-1101	74.6	38.5	56.6	38.5-74.6	S

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
103	VEH 14-1	0.0	12.5	6.3	0.0-12.5	R
104	ADV 1190384	0.0	0.0	0.0	0.0-0.0	R
105	DKC 9125	0.0	0.0	0.0	0.0-0.0	R
106	JH 13023	0.0	6.7	3.4	0.0-6.7	R
107	IN 8903	8.3	11.1	9.7	8.3-11.1	R
108	KH-2192	39.4	14.3	26.8	14.3-39.4	MS
109	PRMH-189	53.8	44.4	49.1	44.4-53.8	MS
110	DMRH 1411	31.7	27.3	29.5	27.3-31.7	MS
111	DMRH 1409	12.5	0.0	6.3	0.0-12.5	R
112	IAHM 2013-12	36.7	40.0	38.3	36.7-40.0	MS
113	SAMH-225	33.3	25.0	29.2	25.0-33.3	MS
114	PM 14102L	19.9	6.7	13.3	6.7-19.9	MR
115	RMH-726	28.6	15.4	22.0	15.4-28.6	MR
116	PMH 1-C	31.0	16.7	23.8	16.7-31.0	MR
117	PMH 3-C	20.2	0.0	10.1	0.0-20.2	MR
118	Bio -9681-C	11.7	47.1	29.4	11.7-47.1	MS
119	Seedtech 2324-C	21.4	16.7	19.0	16.7-21.4	MR
120	HM11-C	7.7	-	7.7	7.7	R
121	SUS. CHECK	83.3	33.3	58.3	33.3-83.3	S

Susceptible Check :BSR:- CM600 (PANTNAGAR); DKC 7074 (DHAULAKUAN)

Contd.

S.No	Genotype	Curvularia leaf spot score (1-5)				Cyst/ plant (n=5)		
		UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
1	JH 13183	3.0	3.0	3.0	3.0-3.0	MR	21--26	S
2	MAH-974	1.5	2.0	1.8	1.5-2.0	R	23--30	S
3	K-25 Gold	2.5	3.0	2.8	2.5-3.0	MR	15--21	S
4	IN 8602	3.0	2.0	2.5	2.0-3.0	MR	22--28	S
5	PM 14105L	1.5	1.3	1.4	1.3-1.5	R	11--15	S
6	NMH 1605	2.0	2.0	2.0	2.0-2.0	R	31--37	S
7	JH 13197	2.5	2.0	2.3	2.0-2.5	MR	10--18	S
8	ADV 0990293	3.0	3.0	3.0	3.0-3.0	MR	2--7	MR
9	CSM 1	2.0	3.0	2.5	2.0-3.0	MR	25--32	S
10	JH 13041	4.5	2.0	3.3	2.0-4.5	MS	12--23	S
11	Super 777	3.5	1.3	2.4	1.3-3.5	MR	21--30	S
12	SAMH-378	2.0	3.0	2.5	2.0-3.0	MR	23--35	S
13	NT 6325	1.5	2.5	2.0	1.5-2.5	R	15--23	S
14	GYH-0652	2.5	3.0	2.8	2.5-3.0	MR	30--42	S
15	AMH-3436	2.0	2.0	2.0	2.0-2.0	R	15--21	S
16	JH 13045	1.5	2.0	1.8	1.5-2.0	R	10--18	S
17	CMH12-667	2.0	1.3	1.7	1.3-2.0	R	5--13	S
18	GOLD 1166	1.5	2.5	2.0	1.5-2.5	R	18--25	S
19	SriKARN 3033	2.0	2.0	2.0	2.0-2.0	R	13--21	S
20	DMRH 1413	4.0	2.0	3.0	2.0-4.0	MR	20--29	S
21	DAS-MH-107	2.5	1.3	1.9	1.3-2.5	R	21--35	S
22	AH 7005	2.0	2.0	2.0	2.0-2.0	R	11--19	S
23	HKH 422	2.0	2.0	2.0	2.0-2.0	R	12--16	S
24	REH 2013-2	1.5	2.0	1.8	1.5-2.0	R	20--32	S

Contd.

S.No	Genotype	Curvularia leaf spot score (1-5)				Cyst/ plant (n=5)		
		UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
25	JH 13244	2.0	2.0	2.0	2.0-2.0	R	22--27	S
26	JH 12063	2.5	2.0	2.3	2.0-2.5	MR	10--15	S
27	NMH-1247	1.5	2.0	1.8	1.5-2.0	R	17--24	S
28	JH 13094	3.5	2.0	2.8	2.0-3.5	MR	4--9	MR
29	JH 13252	2.0	3.0	2.5	2.0-3.0	MR	11--18	S
30	CMH 12-663	3.5	3.0	3.3	3.0-3.5	MS	16--23	S
31	NT 8441	1.5	3.0	2.3	1.5-3.0	MR	11--16	S
32	BH 412095	2.5	2.0	2.3	2.0-2.5	MR	23--32	S
33	JKMH 4242	3.5	3.0	3.3	3.0-3.5	MS	30--38	S
34	HT 51412373	3.5	2.0	2.8	2.0-3.5	MR	25--31	S
35	ADV 0990296	4.5	2.0	3.3	2.0-4.5	MS	15--22	S
36	JH 13230	2.5	2.0	2.3	2.0-2.5	MR	18--27	S
37	Gin 02	2.5	1.3	1.9	1.3-2.5	R	14--23	S
38	BH 412140	2.0	3.0	2.5	2.0-3.0	MR	17--28	S
39	SAFAL X-2	2.5	3.0	2.8	2.5-3.0	MR	31--43	S
40	CMH10-555	3.5	2.0	2.8	2.0-3.5	MR	13--19	S
41	CSM 2	3.0	3.0	3.0	3.0-3.0	MR	17--23	S
42	Gin 01	2.0	3.0	2.5	2.0-3.0	MR	20--27	S
43	IN 8570	2.0	3.0	2.5	2.0-3.0	MR	4--9	MR
44	Siri -4555	3.0	2.0	2.5	2.0-3.0	MR	15--21	S
45	JH 13282	3.0	2.0	2.5	2.0-3.0	MR	18--23	S
46	super 1177	2.0	2.5	2.3	2.0-2.5	MR	25--30	S
47	JH 12010	2.0	2.0	2.0	2.0-2.0	R	19--25	S
48	Bio-069	2.0	1.3	1.7	1.3-2.0	R	22--29	S
49	JH 13037	3.0	2.0	2.5	2.0-3.0	MR	20--26	S
50	VNR 4325	4.0	1.5	2.8	1.5-4.0	MR	2--7	MR

Contd.

S.No	Genotype	Curvularia leaf spot score (1-5)				Cyst/ plant (n=5)		
		UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
51	NMH 1008	2.0	2.5	2.3	2.0-2.5	MR	11--18	S
52	BH 412096	1.5	2.0	1.8	1.5-2.0	R	13--21	S
53	BH 412141	2.0	2.0	2.0	2.0-2.0	R	5--11	S
54	VNR 31862	2.0	1.3	1.7	1.3-2.0	R	30--40	S
55	DMRH 1308	3.0	1.3	2.2	1.3-3.0	MR	10--15	S
56	JKMH 4023	3.5	2.0	2.8	2.0-3.5	MR	3--8	MR
57	DAS-MH-106	2.5	3.0	2.8	2.5-3.0	MR	21--26	S
58	REH 2013-6	2.0	2.0	2.0	2.0-2.0	R	25--32	S
59	JH 13278	2.0	2.0	2.0	2.0-2.0	R	10--16	S
60	PM 14104L	3.5	2.0	2.8	2.0-3.5	MR	12--18	S
61	PM 14106L	3.0	3.0	3.0	3.0-3.0	MR	15--22	S
62	PMSW 4	2.5	2.0	2.3	2.0-2.5	MR	28--37	S
63	JH 13270	3.0	3.0	3.0	3.0-3.0	MR	3--7	MR
64	IN 8569	2.5	1.3	1.9	1.3-2.5	R	8--12	S
65	HT 51412616	1.0	2.0	1.5	1.0-2.0	R	10--19	S
66	KF-110	2.0	3.0	2.5	2.0-3.0	MR	33--46	S
67	JH 13249	1.5	3.0	2.3	1.5-3.0	MR	10--17	S
68	GK-3118	4.0	1.3	2.7	1.3-4.0	MR	13--22	S
69	DMRH 1415	3.5	3.0	3.3	3.0-3.5	MS	11--20	S
70	KH-1408	3.5	2.5	3.0	2.5-3.5	MR	17--25	S
71	GK-3124	2.5	2.0	2.3	2.0-2.5	MR	25--32	S
72	115-08-01	3.5	2.0	2.8	2.0-3.5	MR	21--28	S
73	SYN 417750	2.5	3.0	2.8	2.5-3.0	MR	18--24	S
74	JH 13248	2.5	3.0	2.8	2.5-3.0	MR	11--17	S
75	IN 8603	2.5	2.0	2.3	2.0-2.5	MR	12--20	S
76	CP. 555	3.0	1.3	2.2	1.3-3.0	MR	11--16	S

Contd.

S.No	Genotype	Curvularia leaf spot score (1-5)				Cyst/ plant (n=5)		
		UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
77	JH 13044	1.5	2.0	1.8	1.5-2.0	R	13--21	S
78	GH-110204	1.5	2.0	1.8	1.5-2.0	R	31--40	S
79	PMSY -3	2.5	3.0	2.8	2.5-3.0	MR	30--37	S
80	MAH-957	1.5	2.0	1.8	1.5-2.0	R	15--25	S
81	GPS -02	1.0	3.0	2.0	1.0-3.0	R	14--21	S
82	GPMH-1111	1.5	1.3	1.4	1.3-1.5	R	20--27	S
83	DMH-7721	1.5	3.0	2.3	1.5-3.0	MR	32--43	S
84	HT 51412607	2.0	3.0	2.5	2.0-3.0	MR	11--18	S
85	DMH-192	2.0	2.0	2.0	2.0-2.0	R	13--22	S
86	Proline-2404	1.5	1.3	1.4	1.3-1.5	R	20--28	S
87	CMH12-671	2.5	1.5	2.0	1.5-2.5	R	18--23	S
88	CMH 11-618	4.0	2.0	3.0	2.0-4.0	MR	13--20	S
89	KMH-3981	4.5	1.3	2.9	1.3-4.5	MR	10--17	S
90	GH-110145	3.5	2.0	2.8	2.0-3.5	MR	30--41	S
91	NT 8711	2.0	2.0	2.0	2.0-2.0	R	32--44	S
92	Sonam -27	4.0	2.0	3.0	2.0-4.0	MR	19--28	S
93	GPS -03	3.0	2.0	2.5	2.0-3.0	MR	15--24	S
94	IN 8902	2.5	3.0	2.8	2.5-3.0	MR	10--18	S
95	super 6768	2.5	3.0	2.8	2.5-3.0	MR	18--30	S
96	PM 14101L	2.0	2.0	2.0	2.0-2.0	R	7--15	S
97	REH 2013-5	2.0	2.0	2.0	2.0-2.0	R	23--33	S
98	DMRH 1416	1.5	2.0	1.8	1.5-2.0	R	9--16	S
99	BH 412131	2.0	3.0	2.5	2.0-3.0	MR	18--27	S
100	JH 12150	1.5	2.0	1.8	1.5-2.0	R	11--18	S
101	HKH 423	2.0	1.3	1.7	1.3-2.0	R	28--39	S
102	GPMH-1101	3.5	2.0	2.8	2.0-3.5	MR	16--23	S

Contd.

S.No	Genotype	Curvularia leaf spot score (1-5)				Cyst/ plant (n=5)		
		UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
103	VEH 14-1	3.0	2.0	2.5	2.0-3.0	MR	8--17	S
104	ADV 1190384	2.5	3.0	2.8	2.5-3.0	MR	23--35	S
105	DKC 9125	3.0	2.0	2.5	2.0-3.0	MR	20--27	S
106	JH 13023	1.5	1.3	1.4	1.3-1.5	R	18--24	S
107	IN 8903	1.5	2.0	1.8	1.5-2.0	R	20--29	S
108	KH-2192	1.5	3.0	2.3	1.5-3.0	MR	9--16	S
109	PRMH-189	1.5	3.0	2.3	1.5-3.0	MR	10--21	S
110	DMRH 1411	3.0	2.0	2.5	2.0-3.0	MR	25--36	S
111	DMRH 1409	2.5	2.0	2.3	2.0-2.5	MR	22--30	S
112	IAHM 2013-12	2.5	3.0	2.8	2.5-3.0	MR	30--38	S
113	SAMH-225	2.5	3.0	2.8	2.5-3.0	MR	20--26	S
114	PM 14102L	2.0	2.0	2.0	2.0-2.0	R	8--14	S
115	RMH-726	2.0	1.3	1.7	1.3-2.0	R	3--7	MR
116	PMH 1-C	2.0	3.0	2.5	2.0-3.0	MR	9--17	S
117	PMH 3-C	2.0	1.3	1.7	1.3-2.0	R	10--20	S
118	Bio -9681-C	2.0	2.0	2.0	2.0-2.0	R	23--32	S
119	Seedtech 2324-C	1.5	3.0	2.3	1.5-3.0	MR	20--28	S
120	HM11-C	2.5	2.0	2.3	2.0-2.5	MR	16--23	S
121	RES. CHECK	4.5	4.0	4.3	4.0-4.5	S	23--33	S

Susceptible Check :CLS:-SURYA (UDAIPUR); DKC 7074 (DHAULAKUAN);
CYST NEMATODE:- PEEHM-5 (UDAIPUR)

Table 2. Disease screenig of IVT (medium maturity) maize hybrids (Trial 62)

S.No	Genotype	Maydis leaf blight score (1-5)					Av. Score	Range	Reaction
		DHOL	KARN	LUDH	DHAU	DELH			
1	JH 13204	1.5	1.8	2.0	2.5	2.0	2.0	1.5-2.5	R
2	LMH 414	3.0	1.8	3.3	3.0	2.0	2.6	1.8-3.3	MR
3	JH 13172	3.5	2.1	3.0	1.5	1.5	2.3	1.5-3.5	MR
4	QMH-1025	2.5	1.8	1.8	1.3	2.0	1.9	1.3-2.5	R
5	DMRH 1413	3.5	2.4	4.0	3.0	3.5	3.3	2.4-3.5	MS
6	KH-545	2.0	1.8	2.3	3.0	1.5	2.1	1.5-3.0	MR
7	EH-2372	2.5	2.0	3.5	2.5	2.0	2.5	2.0-3.5	MR
8	DH1411	2.5	2.6	2.8	1.3	2.0	2.2	1.3-2.8	MR
9	TMMH 801	5.0	2.0	3.3	3.0	2.0	3.1	2.0-5.0	MS
10	BH 412065	3.0	3.0	1.5	3.0	2.0	2.5	1.5-3.0	MR
11	IAHM 2013-9	NG	2.4	3.8	4.0	2.0	3.0	2.0-4.0	MR
12	DMRH 1410	2.5	1.9	2.3	2.5	2.0	2.2	1.9-2.5	MR
13	BH 412063	2.0	2.4	2.0	2.0	2.0	2.0	2.0-2.4	R
14	UDMH-115	2.5	1.8	2.3	2.0	2.0	2.1	1.8-2.5	MR
15	PM 14106M	2.5	1.7	2.3	1.3	1.5	1.8	1.3-2.5	R
16	DMRH 1416	2.5	1.6	2.8	3.0	2.0	2.4	1.6-3.0	MR
17	EH-2380	3.0	2.1	3.8	3.0	-	3.0	2.1-3.8	MR
18	BH 412084	3.5	2.1	2.8	3.0	2.0	2.7	2.0-3.5	MR
19	QMH-1034	2.5	1.9	2.0	4.0	2.0	2.5	1.9-4.0	MR
20	EH-2381	2.0	2.0	2.5	2.0	2.5	2.2	2.0-2.5	MR
21	DMRH 1412	3.0	2.4	3.3	3.0	2.0	2.7	2.0-3.3	MR
22	PMH 2277	2.5	1.9	2.8	2.0	2.0	2.2	1.9-2.8	MR
23	JH 13246	3.0	2.4	3.0	3.0	2.0	2.7	2.0-3.0	MR

Contd.

Maydis leaf blight score (1-5)									
S.No	Genotype	DHOL	KARN	LUDH	DHAU	DELH	Av. Score	Range	Reaction
24	JH 13139	3.0	2.2	2.3	3.0	2.0	2.5	2.0-3.0	MR
25	MMH 5-13	4.0	2.1	3.3	2.0	2.5	2.8	2.0-4.0	MR
26	AH-1323	2.5	2.0	3.3	3.0	2.5	2.7	2.0-3.3	MR
27	EH-2235	4.0	3.1	4.0	4.0	3.0	3.6	3.0-4.0	MS
28	IAHM 2013-97	2.0	2.4	3.0	2.0	2.0	2.3	2.0-3.0	MR
29	HT 51412616	3.5	1.6	2.0	3.0	2.5	2.5	1.6-3.5	MR
30	QMH-1015	3.0	3.2	1.8	1.3	2.0	2.2	1.3-3.2	MR
31	ZMH-999	3.0	2.4	3.3	3.0	1.5	2.6	1.5-3.3	MR
32	KDMH 100-8	3.0	2.7	2.8	3.5	2.5	2.9	2.5-3.5	MR
33	JH 13114	2.0	2.4	1.8	2.0	2.0	2.0	1.8-2.4	R
34	HT 51412373	2.0	2.3	2.5	2.5	2.0	2.3	2.0-2.5	MR
35	DAS-MH-306	3.0	2.1	2.0	2.0	2.0	2.2	2.0-3.0	MR
36	DH 1413	2.5	2.4	2.8	1.5	2.0	2.2	1.5-2.8	MR
37	NMH-3612	3.5	2.6	2.5	1.3	2.0	2.4	1.3-3.5	MR
38	DMRH 1417	2.0	2.0	2.8	3.0	2.5	2.5	2.0-3.0	MR
39	DH 1403	4.0	2.6	3.8	3.0	3.0	3.3	2.6-4.0	MS
40	MMH 2-13	2.5	2.3	2.3	3.0	2.0	2.4	2.0-3.0	MR
41	JH 13164	2.0	2.1	2.3	3.0	1.5	2.2	1.5-3.0	MR
42	GPS 01	3.5	2.7	3.8	4.0	2.0	3.2	2.0-4.0	MS
43	BL 897	3.0	3.1	3.8	4.0	2.5	3.3	2.5-4.0	MS
44	MMH 4-13	2.5	1.9	2.5	1.5	2.0	2.0	1.5-2.5	R
45	REH 2013-1	3.0	1.8	2.0	4.0	2.0	2.6	1.8-4.0	MR
46	Proline 786	4.0	2.2	3.8	4.0	2.0	3.2	2.0-4.0	MS
47	Zuari Nandiri	3.5	2.3	3.3	3.0	2.0	2.8	2.0-3.5	MR
48	BH 412120	2.0	2.6	3.3	3.0	2.0	2.6	2.0-3.3	MR

Contd.

Maydis leaf blight score (1-5)									
S.No	Genotype	DHOL	KARN	LUDH	DHAU	DELH	Av. Score	Range	Reaction
49	CMH 11-593	2.5	2.7	2.0	3.0	2.0	2.4	2.0-3.0	MR
50	REH 2013-4	2.0	2.4	2.3	2.0	2.0	2.1	2.0-2.4	MR
51	SriKARN 4689	3.0	2.2	3.3	3.0	2.0	2.7	2.0-3.3	MR
52	LMH 314	2.5	2.1	2.3	2.0	1.5	2.0	1.5-2.5	R
53	KH-517 Gold	5.0	2.2	2.8	3.0	2.5	3.1	2.2-5.0	MS
54	JH 13054	2.5	3.1	2.5	2.0	2.0	2.4	2.0-3.1	MR
55	AWLH 2	3.0	2.1	3.3	3.0	3.5	3.0	2.1-3.5	MR
56	JH 13226	3.0	1.9	2.0	1.3	2.0	2.0	1.3-3.0	R
57	HKH 342	3.0	1.9	3.3	4.0	2.0	2.8	1.9-4.0	MR
58	TI 8261	2.5	2.6	2.8	3.0	3.0	2.8	2.5-3.0	MR
59	CMH 11-619	2.5	1.9	2.3	3.0	2.0	2.3	1.9-3.0	MR
60	GK-3120	3.0	1.9	2.5	1.3	2.0	2.1	1.3-3.0	MR
61	DH 1415	3.5	1.8	2.3	3.0	2.5	2.6	1.8-3.5	MR
62	KF-105	2.5	2.6	3.3	4.0	2.5	3.0	2.5-4.0	MR
63	HT 51412607	3.0	1.8	1.8	3.0	2.0	2.3	1.8-3.0	MR
64	IASH 11C022	4.0	2.0	3.3	4.0	1.5	3.0	1.5-4.0	MR
65	JH 13117	2.0	3.1	1.8	1.3	2.0	2.0	1.3-3.1	R
66	AH-1322	3.0	2.4	2.0	3.0	2.0	2.5	2.0-3.0	MR
67	GPS 05	2.5	2.1	3.3	2.0	2.0	2.4	2.0-3.3	MR
68	PM 14108M	3.0	1.9	1.5	3.0	2.0	2.3	1.5-3.0	MR
69	KMH-4811	3.5	2.2	2.5	2.0	2.0	2.4	2.0-3.5	MR
70	BH 412067	3.0	1.9	2.5	4.0	2.0	2.7	1.9-4.0	MR
71	HT 51412182	3.0	2.2	2.3	1.3	1.5	2.0	1.3-3.0	R
72	CP. 201	2.5	2.1	2.0	2.0	2.0	2.1	2.0-2.5	MR
73	LMH 114	2.0	2.3	2.5	2.0	2.0	2.2	2.0-2.5	MR

Contd.

Maydis leaf blight score (1-5)									
S.No	Genotype	DHOL	KARN	LUDH	DHAU	DELH	Av. Score	Range	Reaction
74	UDMH-101	2.0	2.2	2.0	2.0	2.0	2.0	2.0-2.2	R
75	JH 13142	2.5	2.1	2.3	2.0	2.0	2.2	2.0-2.5	MR
76	Bio 719	2.5	2.1	1.8	2.0	2.0	2.0	1.8-2.5	R
77	JH 13119	2.0	2.1	2.3	2.0	2.0	2.0	2.0-2.3	R
78	DMRH- 12-110	2.0	2.1	2.3	2.0	2.0	2.0	2.0-2.3	R
79	TMMH 826	3.5	2.4	2.8	2.5	2.0	2.6	2.0-3.5	MR
80	DMRH 1308	4.0	3.3	2.0	1.3	2.0	2.5	1.3-4.0	MR
81	SHIATS MS2	2.0	2.4	3.0	1.0	2.0	2.0	1.0-3.0	R
82	DMRM 1402	3.5	2.3	1.8	2.0	2.0	2.3	1.8-3.5	MR
83	SMH-3901	3.0	2.9	3.8	4.0	2.0	3.1	2.0-4.0	MS
84	IAHM 2013-33	3.5	2.4	4.0	4.0	2.5	3.3	2.4-4.0	MS
85	AWLH 1	4.0	2.4	3.3	1.3	2.0	2.6	1.3-4.0	MR
86	MMH 3-13	NG	2.9	2.8	2.5	2.0	2.5	2.0-2.9	MR
87	HKH 343	3.5	2.5	2.8	2.0	2.5	2.7	2.0-3.5	MR
88	RMH 796	3.0	1.9	1.8	1.3	2.0	2.0	1.3-3.0	R
89	MMH 6-13	3.0	2.2	2.8	4.0	2.5	2.9	2.2-4.0	MR
90	CMH 12-665	3.5	2.0	2.3	3.0	2.0	2.6	2.0-3.5	MR
91	IAHM 2013-11	4.0	1.9	3.0	3.0	2.0	2.8	1.9-4.0	MR
92	DMRH 1301	2.5	1.8	3.0	2.0	2.0	2.3	1.8-3.0	MR
93	HT 51412081	3.5	2.6	3.5	3.0	2.0	2.9	2.0-3.5	MR
94	NMH-3662	3.5	2.3	2.0	3.0	2.5	2.7	2.0-3.5	MR
95	UDMH-114	3.0	2.3	2.0	3.0	2.0	2.5	2.0-3.0	MR
96	BH 412066	2.0	1.8	3.8	3.0	2.0	2.5	1.8-3.8	MR
97	JH 13121	2.0	1.8	2.3	2.0	1.5	1.9	1.5-2.3	R
98	JH 31605	3.0	1.8	2.8	3.0	2.0	2.5	1.8-3.0	MR

Contd.

Maydis leaf blight score (1-5)									
S.No	Genotype	DHOL	KARN	LUDH	DHAU	DELH	Av. Score	Range	Reaction
99	JH 13215	2.5	2.3	2.8	3.0	2.0	2.5	2.0-3.0	MR
100	JH 13122	2.0	1.4	2.8	4.0	2.5	2.5	1.4-4.0	MR
101	VEH 14-2	1.5	1.8	2.8	2.0	2.0	2.0	1.5-2.8	R
102	JH 31607	2.5	1.9	1.8	2.0	2.5	2.1	1.8-2.5	MR
103	IN 8401	2.0	2.1	2.3	2.0	2.5	2.2	2.0-2.5	MR
104	DH 1429	2.5	2.4	2.5	2.0	2.0	2.3	2.0-2.5	MR
105	JKMH 4848	3.5	2.5	3.5	4.0	2.5	3.2	2.5-4.0	MS
106	REH 2013-3	2.5	1.8	2.3	3.0	3.0	2.5	1.8-3.0	MR
107	IAHM 2013-26	5.0	2.6	3.3	2.0	2.0	3.0	2.0-5.0	MR
108	DMRH 1302	2.0	2.6	3.5	4.0	2.0	2.8	2.0-4.0	MR
109	BL 900	5.0	3.2	4.5	4.0	2.5	3.8	2.5-5.0	MS
110	DMRH 1418	2.0	1.9	2.3	2.0	2.0	2.0	1.9-2.3	R
111	KDMH 100-3	3.0	2.1	3.3	3.0	2.0	2.7	2.0-3.3	MR
112	CMH 11-584	3.5	2.0	2.3	2.0	2.0	2.4	2.0-3.5	MR
113	JH 13224	2.5	2.2	3.3	2.0	2.0	2.4	2.0-3.3	MR
114	CMH 11-615	3.0	1.9	2.0	2.0	2.0	2.2	1.9-3.0	MR
115	HKH 344	2.5	1.8	2.0	2.0	2.0	2.0	1.8-2.5	R
116	KMH 12-25	3.0	2.1	4.3	3.0	2.5	3.0	2.1-4.3	MR
117	DH1405	2.5	1.6	3.3	3.0	2.0	2.5	1.6-3.3	MR
118	LMH 214	2.0	1.9	1.8	3.0	2.0	2.1	1.8-3.0	MR
119	CMH 11-586	3.0	3.1	2.0	3.0	2.0	2.6	2.0-3.1	MR
120	BH 412044	4.0	2.1	2.5	3.0	2.0	2.7	2.0-4.0	MR
121	BH 412064	3.0	2.2	2.3	3.0	2.5	2.6	2.2-3.0	MR
122	DH 1401	2.0	1.4	2.0	3.0	2.0	2.0	1.4-3.0	R
123	PM 14107M	3.0	2.2	2.3	2.5	2.0	2.4	2.0-3.0	MR

Contd.

Maydis leaf blight score (1-5)									
S.No	Genotype	DHOL	KARN	LUDH	DHAU	DELH	Av. Score	Range	Reaction
124	BH 412062	2.5	2.4	3.0	3.0	2.0	2.6	2.0-3.0	MR
125	DAS-MH-307	2.5	2.1	3.3	3.0	2.0	2.6	2.0-3.3	MR
126	PMH 4 (C)	3.0	1.8	3.3	3.0	2.0	2.6	1.8-3.0	MR
127	HM9 (C)	3.0	2.7	3.5	4.0	2.5	3.1	2.5-4.0	MS
128	HM10 (C)	3.0	2.1	3.0	1.3	2.0	2.3	1.3-3.0	MR
129	Bio -9637(C)	2.5	2.2	2.3	1.0	1.5	1.9	1.0-2.5	R
130	RES. CHECK	-	1.1	-	-	-	1.1	1.1	R
131	SUS. CHECK	5.0	4.2	4.5	3.0	4.5	4.2	3.0-5.0	S

Resistant Check : MLB:- HQPM 1 (KARNAL)

**Susceptible Check : MLB:- CML 186 (DHOLI); HKI 1105 + HKI 536CBT (KARNAL); CM 600 (LUDHIANA)
DKC 7074 (DHAULAKUAN); CM 600 (DELHI)**

Contd.

Turcium leaf bilght score (1-5)								
S.No	Genotype	BAJA	ALMO	MAND	ARBH	Av. Score	Range	Reaction
1	JH 13204	1.5	3.0	2.5	4.0	2.8	1.5-4.0	MR
2	LMH 414	1.8	2.0	3.0	4.0	2.7	1.8-4.0	MR
3	JH 13172	1.8	1.5	2.9	3.0	2.3	1.5-3.0	MR
4	QMH-1025	1.5	1.5	2.5	3.0	2.1	1.5-3.0	MR
5	DMRH 1413	2.3	1.5	2.3	3.5	2.4	1.5-3.0	MR
6	KH-545	1.8	1.5	3.3	4.5	2.8	1.5-4.5	MR
7	EH-2372	1.8	1.5	2.5	3.5	2.3	1.5-3.5	MR
8	DH1411	1.8	1.5	2.8	3.0	2.3	1.5-3.0	MR
9	TMMH 801	2.5	2.0	3.0	3.5	2.8	2.0-3.5	MR
10	BH 412065	2.0	1.5	2.3	2.5	2.0	1.5-2.5	R
11	IAHM 2013-9	2.5	2.5	1.8	4.5	2.8	1.8-4.5	MR
12	DMRH 1410	2.5	1.5	2.8	4.0	2.7	1.5-4.0	MR
13	BH 412063	1.8	1.5	2.8	2.5	2.1	1.5-2.8	MR
14	UDMH-115	1.8	2.0	2.8	3.0	2.4	1.8-3.0	MR
15	PM 14106M	2.5	2.5	2.8	4.0	3.0	2.5-4.0	MR
16	DMRH 1416	2.3	2.0	2.5	3.5	2.6	2.0-3.5	MR
17	EH-2380	2.3	1.5	2.3	3.0	2.3	1.5-3.0	MR
18	BH 412084	1.8	2.0	2.0	3.5	2.3	1.8-3.5	MR
19	QMH-1034	2.0	1.5	2.5	3.0	2.3	1.5-3.0	MR
20	EH-2381	2.5	2.0	3.0	3.5	2.8	2.0-3.5	MR
21	DMRH 1412	2.3	1.5	2.8	3.5	2.5	1.5-3.5	MR
22	PMH 2277	2.5	1.5	3.0	4.0	2.8	1.5-4.0	MR
23	JH 13246	2.3	1.5	2.8	4.0	2.6	1.5-4.0	MR

Contd.

Turcium leaf bilght score (1-5)								
S.No	Genotype	BAJA	ALMO	MAND	ARBH	Av. Score	Range	Reaction
24	JH 13139	2.5	2.0	3.3	3.0	2.7	2.0-3.3	MR
25	MMH 5-13	3.0	1.5	2.8	5.0	3.1	1.5-5.0	MS
26	AH-1323	1.8	2.5	3.5	3.5	2.8	1.8-3.5	MR
27	EH-2235	2.3	1.5	3.3	3.5	2.6	1.5-3.5	MR
28	IAHM 2013-97	3.0	1.0	2.5	4.5	2.8	1.0-4.5	MR
29	HT 51412616	1.8	1.5	2.0	2.0	1.8	1.5-2.0	R
30	QMH-1015	1.5	1.5	2.0	3.5	2.1	1.5-3.5	MR
31	ZMH-999	2.0	1.5	2.3	3.5	2.3	1.5-3.5	MR
32	KDMH 100-8	2.3	1.5	2.8	3.0	2.4	1.5-3.0	MR
33	JH 13114	1.8	1.5	3.3	2.0	2.1	1.5-3.3	MR
34	HT 51412373	1.5	1.0	2.3	2.5	1.8	1.0-2.5	R
35	DAS-MH-306	1.8	1.5	2.5	3.0	2.2	1.5-3.0	MR
36	DH 1413	1.8	1.0	2.5	4.0	2.3	1.0-4.0	MR
37	NMH-3612	2.0	1.0	3.0	3.0	2.3	1.0-3.0	MR
38	DMRH 1417	1.8	1.0	3.3	4.5	2.6	1.0-4.5	MR
39	DH 1403	1.8	1.0	3.0	3.5	2.3	1.0-3.5	MR
40	MMH 2-13	2.8	1.0	2.3	4.0	2.5	1.0-4.0	MR
41	JH 13164	2.0	1.0	3.0	3.0	2.3	1.0-3.0	MR
42	GPS 01	1.8	1.0	2.3	4.5	2.4	1.0-4.5	MR
43	BL 897	2.5	1.0	2.8	4.0	2.6	1.0-4.0	MR
44	MMH 4-13	2.0	1.5	1.8	3.5	2.2	1.5-3.5	MR
45	REH 2013-1	1.8	1.0	2.0	3.0	1.9	1.0-3.0	R
46	Proline 786	2.5	2.5	3.5	4.0	3.1	2.5-4.0	MS
47	Zuari Nandiri	3.3	2.0	2.5	4.0	2.9	2.0-4.0	MR
48	BH 412120	2.8	1.5	2.2	4.0	2.6	1.5-4.0	MR

Contd.

Turcium leaf bilght score (1-5)								
S.No	Genotype	BAJA	ALMO	MAND	ARBH	Av. Score	Range	Reaction
49	CMH 11-593	2.5	1.0	2.7	3.0	2.3	1.0-3.0	MR
50	REH 2013-4	2.5	1.5	2.2	3.0	2.3	1.5-3.0	MR
51	SriKARN 4689	2.0	2.5	2.7	3.5	2.7	2.0-3.5	MR
52	LMH 314	1.5	1.5	3.0	3.5	2.4	1.5-3.5	MR
53	KH-517 Gold	2.3	3.0	3.0	4.5	3.2	2.3-4.5	MS
54	JH 13054	2.8	1.5	3.2	4.0	2.9	1.5-4.0	MR
55	AWLH 2	3.3	1.5	2.5	4.0	2.8	1.5-4.0	MR
56	JH 13226	1.8	2.0	2.2	3.5	2.4	1.8-3.5	MR
57	HKH 342	2.0	2.0	2.5	3.5	2.5	2.0-3.5	MR
58	TI 8261	1.8	2.5	2.0	3.0	2.3	1.8-3.0	MR
59	CMH 11-619	1.8	1.5	3.0	3.0	2.3	1.5-3.0	MR
60	GK-3120	2.3	1.5	2.8	4.0	2.6	1.5-4.0	MR
61	DH 1415	2.5	1.5	2.3	3.5	2.5	1.5-3.5	MR
62	KF-105	3.0	4.0	3.3	4.5	3.7	3.0-4.5	MS
63	HT 51412607	1.5	1.5	2.3	3.0	2.0	1.5-3.0	R
64	IASH 11C022	2.0	1.5	2.0	3.0	2.1	1.5-3.0	MR
65	JH 13117	2.3	1.5	3.2	3.5	2.6	1.5-3.5	MR
66	AH-1322	2.5	2.5	3.2	4.0	3.1	2.5-4.0	MS
67	GPS 05	2.5	1.5	2.8	3.0	2.5	1.5-3.0	MR
68	PM 14108M	3.3	1.5	2.0	4.5	2.8	1.5-4.5	MR
69	KMH-4811	1.8	1.0	2.3	3.5	2.1	1.0-3.5	MR
70	BH 412067	2.0	1.0	3.3	3.5	2.5	1.0-3.5	MR
71	HT 51412182	2.3	1.5	2.5	4.0	2.6	1.5-4.0	MR
72	CP. 201	2.3	1.0	3.0	4.0	2.6	1.0-4.0	MR
73	LMH 114	1.5	1.5	2.3	3.0	2.0	1.5-3.0	R

Contd.

Turcium leaf bilght score (1-5)								
S.No	Genotype	BAJA	ALMO	MAND	ARBH	Av. Score	Range	Reaction
74	UDMH-101	2.3	1.0	3.0	4.5	2.7	1.0-4.5	MR
75	JH 13142	1.5	1.0	3.0	2.0	1.9	1.0-3.0	R
76	Bio 719	1.8	1.5	2.3	3.0	2.1	1.5-3.0	MR
77	JH 13119	1.8	1.5	3.0	2.0	2.0	1.5-3.0	R
78	DMRH- 12-110	1.5	1.5	2.8	3.5	2.3	1.5-3.5	MR
79	TMMH 826	1.3	1.5	3.0	3.5	2.3	1.5-3.5	MR
80	DMRH 1308	1.5	1.5	2.8	2.5	2.0	1.5-2.8	R
81	SHIATS MS2	2.3	1.0	2.8	3.0	2.3	1.0-3.0	MR
82	DMRM 1402	1.8	1.5	2.8	4.5	2.6	1.5-4.5	MR
83	SMH-3901	2.3	1.5	3.0	2.5	2.3	1.5-3.0	MR
84	IAHM 2013-33	2.5	1.5	2.5	4.0	2.6	1.5-4.0	MR
85	AWLH 1	2.8	2.0	4.3	5.0	3.5	2.0-5.0	MS
86	MMH 3-13	3.3	2.0	2.8	4.0	3.0	2.0-4.0	MR
87	HKH 343	2.8	2.5	2.5	3.5	2.8	2.5-3.5	MR
88	RMH 796	2.3	1.5	3.0	4.0	2.7	1.5-4.0	MR
89	MMH 6-13	2.3	1.5	2.5	3.0	2.3	1.5-3.0	MR
90	CMH 12-665	2.5	1.5	3.0	3.0	2.5	1.5-3.0	MR
91	IAHM 2013-11	2.3	1.0	2.8	4.5	2.6	1.0-4.5	MR
92	DMRH 1301	1.8	1.5	2.3	3.0	2.1	1.5-3.0	MR
93	HT 51412081	1.8	2.0	2.8	4.0	2.6	1.8-4.0	MR
94	NMH-3662	2.0	1.0	3.0	3.5	2.4	1.0-3.5	MR
95	UDMH-114	2.0	1.0	2.5	4.0	2.4	1.0-4.0	MR
96	BH 412066	2.3	2.0	2.3	3.0	2.4	2.0-3.0	MR
97	JH 13121	2.0	1.5	3.0	2.5	2.3	1.5-3.0	MR
98	JH 31605	1.8	2.5	3.3	3.5	2.8	1.8-3.5	MR

Contd.

Turcium leaf bilght score (1-5)								
S.No	Genotype	BAJA	ALMO	MAND	ARBH	Av. Score	Range	Reaction
99	JH 13215	2.3	1.5	3.3	3.5	2.6	1.5-3.5	MR
100	JH 13122	2.0	1.5	3.0	3.0	2.4	1.5-3.0	MR
101	VEH 14-2	2.5	2.0	2.8	4.5	3.0	2.0-4.5	MR
102	JH 31607	1.8	2.0	3.0	2.5	2.3	1.8-3.0	MR
103	IN 8401	2.3	1.5	2.3	3.0	2.3	1.5-3.0	MR
104	DH 1429	3.8	2.0	2.5	4.0	3.1	2.0-4.0	MS
105	JKMH 4848	2.5	2.5	3.5	5.0	3.4	2.5-5.0	MS
106	REH 2013-3	2.3	1.5	2.5	4.0	2.6	1.5-4.0	MR
107	IAHM 2013-26	2.8	3.0	3.3	4.5	3.4	2.8-4.5	MS
108	DMRH 1302	2.5	2.5	2.5	2.5	2.5	2.5-2.5	MR
109	BL 900	2.3	2.0	2.8	4.0	2.8	2.0-4.0	MR
110	DMRH 1418	2.0	1.5	2.3	3.5	2.3	1.5-3.5	MR
111	KDMH 100-3	3.0	1.5	2.0	4.0	2.6	1.5-4.0	MR
112	CMH 11-584	1.5	1.0	3.3	3.0	2.2	1.0-3.3	MR
113	JH 13224	1.5	1.0	2.3	3.0	2.0	1.0-3.0	R
114	CMH 11-615	2.0	1.0	2.8	2.5	2.0	1.0-2.8	R
115	HKH 344	1.5	1.0	2.5	3.0	2.0	1.0-3.0	R
116	KMH 12-25	1.8	1.0	3.3	4.5	2.6	1.0-3.0	MR
117	DH1405	2.5	1.5	3.3	2.5	2.5	1.0-4.5	MR
118	LMH 214	2.5	1.5	2.8	2.0	2.2	1.5-2.8	MR
119	CMH 11-586	1.8	1.0	2.8	3.5	2.3	1.0-3.5	MR
120	BH 412044	2.8	1.0	2.8	3.0	2.4	1.0-3.0	MR
121	BH 412064	1.8	1.0	2.8	3.0	2.1	1.0-3.0	MR
122	DH 1401	2.0	1.0	3.3	3.0	2.3	1.0-3.3	MR
123	PM 14107M	2.5	1.5	2.5	4.5	2.8	1.5-4.5	MR

Contd.

Turcium leaf blight score (1-5)								
S.No	Genotype	BAJA	ALMO	MAND	ARBH	Av. Score	Range	Reaction
124	BH 412062	2.8	1.5	3.5	5.0	3.2	1.5-5.0	MS
125	DAS-MH-307	1.8	1.5	2.8	4.0	2.5	1.5-4.0	MR
126	PMH 4 (C)	1.8	1.5	3.3	5.0	2.9	1.5-5.0	MR
127	HM9 (C)	1.8	1.5	2.8	4.0	2.5	1.5-4.0	MR
128	HM10 (C)	2.5	1.0	2.8	3.5	2.5	1.-3.5	MR
129	Bio -9637(C)	1.8	1.0	2.8	3.5	2.3	1.0-3.5	MR
130	RES. CHECK	4.3	1.0	2.0	-	2.4	1.0-4.3	MR
131	SUS. CHECK	-	4.5	4.3	-	4.4	4.3-4.5	S
132	SUS. CHECK - Local	4.8	-	-	-	4.8	4.8	S

Resistant Check : TLB:- V373 (ALMORA); NITHYASHREE (MANDYA)

**Susceptible Check : TLB:- CM 202 (BAJAURA); DHYARI LOCAL (ALMORA); 219J (MANDYA) CM202 (ARBHAVI)
CM202 (ARBHAVI)**

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MEDI	PANT	DHAU	DELH	BHUB	KARN	Av. Score	Range	Reaction
1	JH 13204	4.2	3.3	3.0	2.5	3.5	2.8	3.2	2.5-4.2	MS
2	LMH 414	4.6	5.0	3.0	3.0	3.5	1.9	3.5	1.9-5.0	MS
3	JH 13172	5.0	3.8	3.0	3.5	4.3	2.8	3.7	2.8-5.0	MS
4	QMH-1025	3.4	4.0	2.5	3.0	3.0	1.0	2.8	1.0-1.0	MR
5	DMRH 1413	4.4	4.8	4.0	3.5	3.0	3.1	3.8	3.0-4.8	MS
6	KH-545	4.4	4.3	3.0	4.0	3.8	2.2	3.6	2.2-4.4	MS
7	EH-2372	2.8	4.5	3.5	4.0	3.3	2.1	3.4	2.1-4.5	MS
8	DH1411	4.2	3.5	3.5	3.5	2.8	2.6	3.4	2.6-4.2	MS
9	TMMH 801	3.2	4.5	3.5	3.0	3.8	2.6	3.4	2.6-4.5	MS
10	BH 412065	3.6	3.5	4.0	3.0	3.3	2.0	3.2	2.0-4.0	MS
11	IAHM 2013-9	4.6	5.0	2.5	3.5	3.0	2.1	3.5	2.1-5.0	MS
12	DMRH 1410	4.6	4.3	3.0	3.0	3.3	2.2	3.4	2.2-4.6	MS
13	BH 412063	4.0	3.5	4.0	3.0	2.8	3.4	3.5	2.8-4.0	MS
14	UDMH-115	4.7	4.8	4.0	4.0	3.5	2.3	3.9	2.3-4.8	MS
15	PM 14106M	3.5	4.5	2.5	4.0	3.0	2.2	3.3	2.2-4.5	MS
16	DMRH 1416	4.0	4.3	2.5	3.5	3.3	2.2	3.3	2.2-4.3	MS
17	EH-2380	4.5	4.5	4.0	-	2.0	1.8	3.4	1.8-4.5	MS
18	BH 412084	3.2	4.5	3.5	3.5	3.8	2.1	3.4	2.1-4.5	MS
19	QMH-1034	3.4	4.0	3.0	3.5	3.3	2.1	3.2	2.1-4.0	MS
20	EH-2381	4.4	3.8	4.0	3.5	3.0	3.2	3.6	3.0-4.4	MS
21	DMRH 1412	4.6	4.8	3.0	3.5	3.3	1.9	3.5	1.9-4.8	MS
22	PMH 2277	4.3	4.3	4.5	3.0	2.5	2.0	3.4	2.0-4.5	MS
23	JH 13246	4.1	3.8	4.0	3.0	2.5	2.4	3.3	2.4-4.1	MS

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MEDI	PANT	DHAU	DELH	BHUB	KARN	Av. Score Range		Reaction
24	JH 13139	4.3	4.3	3.0	3.5	4.3	2.0	3.6	2.0-4.3	MS
25	MMH 5-13	4.0	4.0	4.0	3.5	3.8	2.3	3.6	2.3-4.0	MS
26	AH-1323	4.2	3.5	4.0	3.5	3.8	2.4	3.6	2.4-4.2	MS
27	EH-2235	4.3	4.5	2.5	3.5	4.5	3.0	3.7	2.5-4.5	MS
28	IAHM 2013-97	4.6	4.3	3.0	4.0	3.3	3.3	3.7	3.0-4.6	MS
29	HT 51412616	4.7	4.5	3.5	3.0	3.3	2.8	3.6	2.8-4.7	MS
30	QMH-1015	3.3	3.8	2.0	3.0	2.8	3.4	3.0	2.0-3.8	MR
31	ZMH-999	4.1	4.3	3.0	3.0	3.5	2.0	3.3	2.0-4.3	MS
32	KDMH 100-8	4.3	5.0	3.0	4.0	3.0	1.9	3.5	1.9-5.0	MS
33	JH 13114	4.6	2.8	3.0	3.5	3.3	3.4	3.4	2.8-4.6	MS
34	HT 51412373	4.0	4.8	4.0	3.0	2.8	3.2	3.6	2.8-4.8	MS
35	DAS-MH-306	3.6	4.5	2.0	3.0	3.8	2.3	3.2	2.0-4.5	MS
36	DH 1413	2.6	5.0	4.0	3.5	3.8	2.4	3.6	2.4-5.0	MS
37	NMH-3612	4.0	5.0	2.0	3.5	3.3	3.2	3.5	2.0-5.0	MS
38	DMRH 1417	4.1	3.8	3.0	4.0	4.3	1.9	3.5	1.9-4.1	MS
39	DH 1403	4.5	4.5	4.0	3.5	3.0	3.4	3.8	3.0-4.5	MS
40	MMH 2-13	4.6	5.0	3.0	4.0	4.0	1.6	3.7	1.6-5.0	MS
41	JH 13164	4.6	4.0	3.0	3.0	2.8	2.8	3.4	2.8-4.6	MS
42	GPS 01	3.5	4.3	4.0	3.0	3.3	2.0	3.3	2.0-4.3	MS
43	BL 897	3.3	5.0	4.0	3.5	3.5	3.0	3.7	3.0-5.0	MS
44	MMH 4-13	4.2	4.3	2.0	3.5	3.5	2.6	3.3	2.0-4.3	MS
45	REH 2013-1	4.3	4.5	3.0	3.5	3.5	2.5	3.6	2.5-4.5	MS
46	Proline 786	4.8	4.5	3.5	3.5	2.8	1.9	3.5	1.9-4.8	MS
47	Zuari Nandiri	4.9	4.3	1.5	4.0	4.0	2.0	3.4	1.5-4.9	MS
48	BH 412120	3.9	4.0	2.5	3.5	4.0	3.9	3.6	2.0-3.5	MS

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MEDI	PANT	DHAU	DELH	BHUB	KARN	Av. Score Range		Reaction
49	CMH 11-593	3.5	3.5	2.0	3.0	3.3	2.4	3.0	2.0-3.5	MR
50	REH 2013-4	2.9	4.5	1.5	4.0	3.8	2.7	3.2	1.5-4.5	MS
51	SriKARN 4689	4.8	4.0	4.0	3.5	3.8	3.8	4.0	3.5-4.8	MS
52	LMH 314	4.3	4.5	4.0	3.5	4.3	2.2	3.8	2.2-4.5	MS
53	KH-517 Gold	-	4.5	1.5	4.0	3.0	1.8	3.0	1.5-4.5	MR
54	JH 13054	3.4	4.0	3.0	3.5	3.0	3.4	3.4	3.0-4.0	MS
55	AWLH 2	4.4	5.0	4.0	4.0	3.8	4.4	4.3	3.8-5.0	S
56	JH 13226	5.0	4.0	3.0	2.5	3.3	3.2	3.5	2.5-5.0	MS
57	HKH 342	4.7	5.0	3.5	3.5	3.3	2.4	3.7	2.4-5.0	MS
58	TI 8261	4.4	4.5	3.0	3.5	3.0	2.9	3.6	2.9-4.5	MS
59	CMH 11-619	4.1	4.8	2.0	3.5	4.3	2.0	3.4	2.0-4.8	MS
60	GK-3120	4.8	4.5	3.0	4.0	2.8	1.6	3.5	1.6-4.8	MS
61	DH 1415	3.4	5.0	3.5	3.0	3.8	1.6	3.4	1.6-5.0	MS
62	KF-105	4.8	4.5	4.0	3.5	3.8	2.2	3.8	2.2-4.8	MS
63	HT 51412607	-	4.0	3.0	3.5	3.3	2.2	3.2	2.2-4.0	MS
64	IASH 11C022	4.6	3.8	3.0	3.0	3.3	3.0	3.4	3.0-4.6	MS
65	JH 13117	4.3	5.0	3.0	3.5	3.0	2.8	3.6	2.8-5.0	MS
66	AH-1322	4.5	4.8	3.5	3.0	4.3	2.6	3.8	2.6-4.8	MS
67	GPS 05	3.8	4.5	2.5	3.5	3.5	3.4	3.5	2.5-4.5	MS
68	PM 14108M	3.8	4.5	2.5	4.0	3.0	1.6	3.2	1.6-4.5	MS
69	KMH-4811	3.5	3.5	3.0	3.5	3.5	3.0	3.3	3.0-3.5	MS
70	BH 412067	3.3	4.3	3.5	3.0	3.0	4.6	3.6	3.0-4.6	MS
71	HT 51412182	2.4	4.5	4.0	3.5	4.0	2.0	3.4	2.0-4.5	MS
72	CP. 201	2.7	5.0	2.0	3.5	2.8	2.6	3.1	2.0-5.0	MS
73	LMH 114	3.4	4.5	3.5	3.0	2.0	3.8	3.4	2.0-4.5	MS

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MEDI	PANT	DHAU	DELH	BHUB	KARN	Av. Score Range		Reaction
74	UDMH-101	4.3	4.8	3.0	3.5	3.0	3.8	3.7	3.0-4.8	MS
75	JH 13142	4.4	4.3	3.0	3.0	3.0	1.6	3.2	1.6-4.4	MS
76	Bio 719	4.1	3.0	2.0	3.5	3.5	2.4	3.1	2.0-4.1	MS
77	JH 13119	2.7	4.5	2.0	3.0	4.0	3.0	3.2	2.0-4.5	MS
78	DMRH- 12-110	3.3	4.5	4.0	3.0	3.5	3.2	3.6	3.0-4.5	MS
79	TMMH 826	4.1	4.3	3.0	3.5	4.0	2.4	3.5	2.4-4.3	MS
80	DMRH 1308	3.9	4.5	4.0	3.0	3.5	3.3	3.7	3.0-4.5	MS
81	SHIATS MS2	3.8	3.5	3.0	4.0	3.3	2.4	3.3	2.4-4.0	MS
82	DMRM 1402	4.5	4.5	3.0	3.0	3.8	2.8	3.6	2.8-4.5	MS
83	SMH-3901	4.0	3.8	3.5	3.5	2.8	2.8	3.4	2.8-4.0	MS
84	IAHM 2013-33	4.2	4.5	2.0	3.0	3.8	1.8	3.2	1.8-4.5	MS
85	AWLH 1	4.7	4.5	4.0	3.5	3.8	3.8	4.1	3.5-4.7	S
86	MMH 3-13	4.0	4.5	3.0	4.0	3.8	2.2	3.6	2.2-4.5	MS
87	HKH 343	3.8	4.8	3.5	3.5	3.8	2.2	3.6	2.2-4.8	MS
88	RMH 796	3.1	4.3	2.5	3.5	3.8	1.9	3.2	1.9-4.3	MS
89	MMH 6-13	-	3.5	2.5	3.0	3.0	3.6	3.1	2.5-3.6	MS
90	CMH 12-665	2.6	4.5	4.0	3.0	3.5	1.8	3.2	1.8-4.5	MS
91	IAHM 2013-11	4.3	4.3	2.5	3.0	3.5	2.4	3.3	2.4-4.3	MS
92	DMRH 1301	3.8	4.3	2.0	3.5	2.8	2.4	3.1	2.0-4.3	MS
93	HT 51412081	4.1	4.5	4.0	3.5	4.5	4.4	4.2	3.5-4.5	S
94	NMH-3662	3.7	3.3	2.5	3.5	2.8	3.2	3.2	2.5-3.7	MS
95	UDMH-114	4.3	4.0	3.0	3.5	3.3	2.0	3.4	2.0-4.8	MS
96	BH 412066	4.4	3.8	3.0	-	2.5	2.6	3.3	2.5-4.4	MS
97	JH 13121	4.2	4.0	2.0	3.0	2.5	3.6	3.2	2.5-4.2	MS
98	JH 31605	4.5	4.3	3.0	3.5	3.3	3.6	3.7	3.0-4.5	MS

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MEDI	PANT	DHAU	DELH	BHUB	KARN	Av. Score Range		Reaction
99	JH 13215	3.2	4.5	3.0	3.0	4.5	1.6	3.3	1.6-4.5	MS
100	JH 13122	3.2	4.5	2.5	3.5	3.5	2.4	3.3	2.4-4.5	MS
101	VEH 14-2	3.6	4.3	3.0	4.0	3.3	3.4	3.6	3.0-4.3	MS
102	JH 31607	3.9	4.5	2.5	3.5	3.3	2.2	3.3	2.2-4.5	MS
103	IN 8401	4.7	4.0	3.0	3.5	3.0	3.2	3.6	3.0-4.7	MS
104	DH 1429	4.6	4.3	2.5	4.0	3.0	4.2	3.8	2.5-4.6	MS
105	JKMH 4848	4.7	4.0	3.0	3.5	3.8	3.0	3.7	3.0-4.7	MS
106	REH 2013-3	3.9	4.8	3.0	3.0	2.5	2.4	3.3	2.4-4.8	MS
107	IAHM 2013-26	4.8	4.5	4.0	3.0	3.8	2.2	3.7	2.2-4.8	MS
108	DMRH 1302	4.1	4.3	3.0	4.0	3.8	3.0	3.7	3.0-4.3	MS
109	BL 900	4.5	4.8	4.0	3.5	3.0	3.4	3.9	3.0-4.8	MS
110	DMRH 1418	3.7	4.3	2.0	3.0	3.3	1.8	3.0	1.8-4.3	MR
111	KDMH 100-3	4.0	4.0	3.0	4.0	2.8	2.2	3.3	2.2-4.0	MS
112	CMH 11-584	4.3	3.8	4.0	3.5	2.8	2.2	3.4	2.2-4.3	MS
113	JH 13224	4.7	3.0	4.0	3.0	3.8	3.2	3.6	3.0-4.7	MS
114	CMH 11-615	3.9	4.3	3.0	3.0	3.0	2.4	3.3	2.4-4.3	MS
115	HKH 344	2.4	4.3	4.0	3.5	3.3	2.0	3.2	2.0-4.3	MS
116	KMH 12-25	3.8	4.8	3.5	4.0	4.3	2.6	3.8	2.6-4.8	MS
117	DH1405	3.5	3.8	3.5	3.5	4.0	2.6	3.5	2.6-4.0	MS
118	LMH 214	3.2	3.5	1.5	3.0	3.3	2.2	2.8	1.5-3.5	MR
119	CMH 11-586	4.3	3.8	4.0	3.5	4.3	2.2	3.7	2.2-4.3	MS
120	BH 412044	3.3	3.8	2.0	4.0	3.3	2.2	3.1	2.0-4.0	MS
121	BH 412064	3.8	4.5	2.0	3.5	4.3	3.6	3.6	2.0-4.5	MS
122	DH 1401	4.2	4.3	3.5	3.0	3.8	3.5	3.7	3.0-4.3	MS
123	PM 14107M	3.4	4.0	2.5	3.0	2.8	2.6	3.1	2.5-4.0	MS

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MEDI	PANT	DHAU	DELH	BHUB	KARN	Av. Score	Range	Reaction
124	BH 412062	3.3	4.8	4.0	3.5	2.8	2.2	3.4	2.2-4.8	MS
125	DAS-MH-307	2.6	4.8	3.5	3.0	3.3	2.7	3.3	2.7-4.8	MS
126	PMH 4 (C)	4.6	4.5	3.0	4.0	4.3	2.4	3.8	2.4-4.6	MS
127	HM9 (C)	3.8	5.0	4.0	3.5	3.8	4.3	4.1	3.5-5.0	S
128	HM10 (C)	3.7	3.3	3.5	3.5	2.8	1.6	3.1	1.6-3.7	MS
129	Bio -9637(C)	3.5	3.8	3.0	4.0	2.8	1.8	3.1	1.8-4.0	MS
130	RES. CHECK	-	-	-	-	-	1.7	1.7	1.7	R
131	SUS. CHECK	-	5.0	4.0	4.0	4.3	4.2	4.3	4.0-5.0	S

Resistant Check : BLSB:- HQPM 1 (KARNAL)

**Susceptible Check : BLSB:- AMAR (PANTNAGAR); CML 186 (DHAULAKUAN); CM 501 (DELHI); P3441 (BHUBNESWAR)
HKI 1105+ HKI 536CBT (KARNAL)**

Contd.

S.No	Genotype	P.RUST(1-5)		C.RUST (1-5)		C.ROT (1-5)		Av. Score	Range	Reaction
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE			
1	JH 13204	3.0	MS	2.5	MS	4.5	1.6	3.0	1.6-4.5	R
2	LMH 414	3.3	S	3.5	S	7.2	2.9	5.0	2.9-7.2	MR
3	JH 13172	2.8	MS	2.0	MR	4.0	1.9	2.9	1.9-4.0	R
4	QMH-1025	2.3	MS	3.5	S	4.9	1.8	3.4	1.8-4.9	MR
5	DMRH 1413	2.8	MS	3.5	S	6.7	2.3	4.5	2.3-6.7	MR
6	KH-545	3.0	MS	3.5	S	4.0	1.8	2.9	1.8-4.0	R
7	EH-2372	3.3	S	3.0	MS	6.1	1.6	3.9	1.6-6.1	MR
8	DH1411	2.8	MS	-	-	8.3	1.6	5.0	1.6-8.3	MR
9	TMMH 801	2.5	MS	3.0	MS	6.7	2.4	4.5	2.4-6.7	MR
10	BH 412065	2.3	MS	3.5	S	4.6	1.5	3.1	1.5-4.6	MR
11	IAHM 2013-9	2.5	MS	3.0	MS	4.5	1.7	3.1	1.7-4.5	MR
12	DMRH 1410	3.0	MS	4.0	S	5.1	1.8	3.5	1.8-5.1	MR
13	BH 412063	2.8	MS	4.0	S	5.7	3.6	4.7	3.6-5.7	MR
14	UDMH-115	3.0	MS	4.0	S	6.1	2.5	4.3	2.5-6.1	MR
15	PM 14106M	2.3	MS	3.5	S	4.8	1.9	3.3	1.9-4.8	MR
16	DMRH 1416	4.3	HS	3.5	S	6.5	3.1	4.8	3.1-6.5	MR
17	EH-2380	3.0	MS	5.0	HS	7.8	2.2	5.0	2.2-7.8	MR
18	BH 412084	1.8	MR	3.0	MS	5.9	1.9	3.9	1.9-5.9	MR
19	QMH-1034	3.3	S	3.0	MS	4.2	1.8	3.0	1.8-4.2	R
20	EH-2381	3.3	S	3.5	S	4.8	1.9	3.3	1.9-4.8	MR
21	DMRH 1412	3.3	S	4.5	HS	6.4	2.1	4.3	2.1-6.4	MR
22	PMH 2277	3.0	MS	3.5	S	4.9	1.8	3.4	1.8-4.9	MR
23	JH 13246	2.3	MS	4.0	S	4.5	1.6	3.1	1.6-4.5	MR

Contd.

S.No	Genotype	P.RUST(1-5)		C.RUST (1-5)		C.ROT (1-5)		Av. Score	Range	Reaction
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE			
24	JH 13139	2.8	MS	2.0	MR	5.0	2.3	3.7	2.3-5.0	MR
25	MMH 5-13	2.5	MS	5.0	HS	7.4	3.0	5.2	3.0-7.4	MS
26	AH-1323	4.0	S	5.0	HS	7.9	2.0	4.9	2.0-7.9	MR
27	EH-2235	3.3	S	3.5	S	6.0	2.2	4.1	2.2-6.0	MR
28	IAHM 2013-97	2.8	MS	4.0	S	5.2	2.5	3.8	2.5-5.2	MR
29	HT 51412616	2.0	MR	2.0	MR	5.6	1.7	3.6	1.7-5.6	MR
30	QMH-1015	2.0	MR	3.0	MS	5.1	1.6	3.4	1.6-5.1	MR
31	ZMH-999	3.0	MS	2.5	MS	8.8	1.8	5.3	1.8-8.8	MS
32	KDMH 100-8	3.5	S	3.5	S	7.9	4.9	6.4	4.9-7.9	MS
33	JH 13114	3.3	S	4.0	S	4.8	1.6	3.2	1.6-4.8	MR
34	HT 51412373	2.0	MR	2.0	MR	4.4	1.7	3.0	1.7-4.4	R
35	DAS-MH-306	2.3	MS	2.0	MR	4.1	1.8	3.0	1.8-4.1	R
36	DH 1413	3.0	MS	4.5	HS	4.6	1.7	3.1	1.7-4.6	MR
37	NMH-3612	3.0	MS	2.0	MR	4.6	1.8	3.2	1.8-4.6	MR
38	DMRH 1417	4.3	HS	5.0	HS	4.0	1.4	2.7	1.4-4.0	R
39	DH 1403	4.3	HS	4.5	HS	8.6	1.8	5.2	1.8-8.6	MS
40	MMH 2-13	4.0	S	3.5	S	8.7	4.9	6.8	4.9-8.7	MS
41	JH 13164	3.0	MS	4.0	S	4.1	1.5	2.8	1.5-4.1	R
42	GPS 01	4.5	HS	4.5	HS	8.4	1.8	5.1	1.8-8.4	MS
43	BL 897	3.3	S	3.0	MS	6.9	1.8	4.3	1.8-6.9	MR
44	MMH 4-13	2.8	MS	3.0	MS	6.7	2.6	4.7	2.6-6.7	MR
45	REH 2013-1	3.0	MS	3.0	MS	7.1	2.3	4.7	2.3-7.1	MR
46	Proline 786	4.3	HS	3.5	S	5.5	2.4	3.9	2.4-5.5	MR
47	Zuari Nandiri	2.0	MR	3.0	MS	4.6	1.7	3.1	1.7-4.6	MR
48	BH 412120	2.5	MS	3.5	S	7.1	1.9	4.5	1.9-7.1	MR

Contd.

S.No	Genotype	P.RUST(1-5)		C.RUST (1-5)		C.ROT (1-5)		Av. Score	Range	Reaction
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE			
49	CMH 11-593	2.0	MR	3.0	MS	6.0	2.4	4.2	2.4-6.0	MR
50	REH 2013-4	3.0	MS	3.0	MS	4.4	1.7	3.1	1.7-4.4	MR
51	SriKARN 4689	2.8	MS	3.0	MS	3.9	2.8	3.3	2.8-3.9	MR
52	LMH 314	2.8	MS	2.5	MS	6.1	1.5	3.8	1.5-6.1	MR
53	KH-517 Gold	3.0	MS	2.5	MS	7.6	1.6	4.6	1.6-7.6	MR
54	JH 13054	2.8	MS	3.5	S	4.9	2.0	3.5	2.0-4.9	MR
55	AWLH 2	2.5	MS	3.0	MS	5.2	3.1	4.1	3.1-5.2	MR
56	JH 13226	2.3	MS	4.5	HS	4.9	1.6	3.3	1.6-4.9	MR
57	HKH 342	3.3	S	3.5	S	5.2	2.2	3.7	2.2-5.2	MR
58	TI 8261	2.5	MS	-	-	5.1	1.9	3.5	1.9-5.1	MR
59	CMH 11-619	2.8	MS	2.5	MS	6.6	1.9	4.3	1.9-6.6	MR
60	GK-3120	3.0	MS	4.5	HS	5.4	2.0	3.7	2.0-5.4	MR
61	DH 1415	3.0	MS	4.0	S	5.1	2.2	3.6	2.2-5.1	MR
62	KF-105	3.8	S	3.5	S	6.1	2.4	4.2	2.4-6.1	MR
63	HT 51412607	2.0	MR	2.0	MR	4.6	1.6	3.1	1.6-4.6	MR
64	IASH 11C022	2.0	MR	4.0	S	6.5	1.9	4.2	1.9-6.5	MR
65	JH 13117	2.5	MS	3.5	S	4.5	1.6	3.1	1.6-4.5	MR
66	AH-1322	2.5	MS	3.5	S	6.7	2.7	4.7	2.7-6.7	MR
67	GPS 05	3.8	S	3.5	S	6.5	1.7	4.1	1.7-6.5	MR
68	PM 14108M	3.0	MS	4.5	HS	4.7	2.1	3.4	2.1-4.7	MR
69	KMH-4811	2.0	MR	2.5	MS	5.8	2.1	4.0	2.1-5.8	MR
70	BH 412067	3.5	S	2.5	MS	6.9	3.6	5.3	3.6-6.9	MS
71	HT 51412182	2.3	MS	2.5	MS	5.9	1.6	3.8	1.6-5.9	MR
72	CP. 201	3.0	MS	2.5	MS	6.5	2.1	4.3	2.1-6.5	MR
73	LMH 114	2.8	MS	3.5	S	5.2	3.0	4.1	3.0-5.2	MR

Contd.

S.No	Genotype	P.RUST(1-5)		C.RUST (1-5)		C.ROT (1-5)		Av. Score	Range	Reaction
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE			
74	UDMH-101	3.5	S	3.5	S	5.0	3.2	4.1	3.2-5.0	MR
75	JH 13142	2.8	MS	4.0	S	4.6	1.7	3.1	1.7-4.6	MR
76	Bio 719	2.8	MS	3.0	MS	5.7	2.4	4.0	2.4-5.7	MR
77	JH 13119	2.8	MS	3.5	S	6.1	1.9	4.0	1.9-6.1	MR
78	DMRH- 12-110	3.0	MS	3.5	S	5.2	1.8	3.5	1.8-5.2	MR
79	TMMH 826	2.8	MS	2.5	MS	7.4	1.8	4.6	1.8-7.4	MR
80	DMRH 1308	2.8	MS	2.5	MS	6.1	1.5	3.8	1.5-6.1	MR
81	SHIATS MS2	3.8	S	3.0	MS	5.0	1.8	3.4	1.8-5.0	MR
82	DMRM 1402	3.0	MS	3.5	S	7.8	1.8	4.8	1.8-7.8	MR
83	SMH-3901	2.3	MS	2.5	MS	4.8	2.1	3.4	2.1-4.8	MR
84	IAHM 2013-33	3.0	MS	3.0	MS	5.6	1.9	3.7	1.9-5.6	MR
85	AWLH 1	4.0	S	2.5	MS	6.9	1.9	4.4	1.9-6.9	MR
86	MMH 3-13	3.5	S	4.0	S	7.3	3.8	5.5	3.8-7.3	MS
87	HKH 343	2.5	MS	4.0	S	6.6	2.0	4.3	2.0-6.6	MR
88	RMH 796	3.0	MS	3.0	MS	6.8	1.8	4.3	1.8-6.8	MR
89	MMH 6-13	3.3	S	3.5	S	4.7	2.7	3.7	2.7-4.7	MR
90	CMH 12-665	3.0	MS	4.0	S	4.7	2.6	3.6	2.6-4.7	MR
91	IAHM 2013-11	3.8	S	3.0	MS	4.7	1.4	3.1	1.4-4.7	MR
92	DMRH 1301	2.3	MS	2.5	MS	6.7	1.4	4.0	1.4-6.7	MR
93	HT 51412081	2.0	MR	3.0	MS	8.6	2.0	5.3	2.0-8.6	MS
94	NMH-3662	2.8	MS	3.5	S	6.3	2.1	4.2	2.1-6.3	MR
95	UDMH-114	3.3	S	4.0	S	6.5	1.7	4.1	1.7-6.5	MR
96	BH 412066	2.5	MS	3.5	S	5.4	1.7	3.6	1.7-5.4	MR
97	JH 13121	2.8	MS	3.0	MS	5.2	1.8	3.5	1.8-5.2	MR
98	JH 31605	2.8	MS	4.0	S	5.9	2.4	4.1	2.4-5.9	MR

Contd.

S.No	Genotype	P.RUST(1-5)		C.RUST (1-5)		C.ROT (1-5)		Av. Score	Range	Reaction
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE			
99	JH 13215	2.8	MS	3.5	S	5.1	1.6	3.4	1.6-5.1	MR
100	JH 13122	2.8	MS	3.5	S	3.1	2.6	2.8	2.6-3.1	R
101	VEH 14-2	2.3	MS	2.0	MR	8.2	4.4	6.3	4.4-8.2	MS
102	JH 31607	2.3	MS	3.0	MS	4.3	2.2	3.3	2.2-4.3	MR
103	IN 8401	2.5	MS	2.0	MR	4.4	3.0	3.7	3.0-4.4	MR
104	DH 1429	4.3	HS	4.5	HS	6.2	2.6	4.4	2.6-6.2	MR
105	JKMH 4848	3.0	MS	-	-	8.9	3.9	6.4	3.9-8.9	MS
106	REH 2013-3	2.0	MR	3.5	S	4.1	1.8	3.0	1.8-4.1	R
107	IAHM 2013-26	3.3	MS	4.5	HS	5.6	2.0	3.8	2.0-5.6	MR
108	DMRH 1302	2.8	MS	3.5	S	6.7	1.8	4.2	1.8-6.7	MR
109	BL 900	3.8	S	-	-	6.3	4.1	5.2	4.1-6.3	MS
110	DMRH 1418	2.5	MS	3.0	MS	6.3	1.9	4.1	1.9-6.3	MR
111	KDMH 100-3	2.8	MS	3.0	MS	7.8	2.4	5.1	2.4-7.8	MS
112	CMH 11-584	2.3	MS	3.0	MS	4.0	1.5	2.7	1.5-4.0	R
113	JH 13224	2.5	MS	3.5	S	3.6	1.8	2.7	1.8-3.6	R
114	CMH 11-615	2.5	MS	2.0	MR	4.7	1.6	3.2	1.6-4.7	MR
115	HKH 344	3.0	MS	4.0	S	6.5	1.6	4.1	1.6-6.5	MR
116	KMH 12-25	2.3	MS	3.5	S	8.2	4.9	6.6	4.9-8.2	MS
117	DH1405	3.5	S	2.0	MR	6.0	2.3	4.1	2.3-6.0	MR
118	LMH 214	3.8	S	3.5	S	3.9	1.7	2.8	1.7-3.9	R
119	CMH 11-586	2.5	MS	3.5	S	5.8	1.6	3.7	1.6-5.8	MR
120	BH 412044	3.0	MS	3.0	MS	4.9	3.2	4.1	3.2-4.9	MR
121	BH 412064	2.5	MS	3.0	MS	5.0	3.2	4.1	3.2-5.0	MR
122	DH 1401	3.0	MS	4.0	S	5.7	1.8	3.8	1.8-5.7	MR
123	PM 14107M	2.5	MS	3.5	S	5.0	1.6	3.3	1.6-5.0	MR

Contd.

S.No	Genotype	P.RUST(1-5)		C.RUST (1-5)		C.ROT (1-5)		Av. Score	Range	Reaction
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE			
124	BH 412062	3.8	S	4.5	HS	4.2	1.8	3.0	1.8-4.2	R
125	DAS-MH-307	3.3	S	2.0	MR	5.5	1.8	3.7	1.8-5.5	MR
126	PMH 4 (C)	3.5	S	4.5	HS	5.2	2.3	3.7	2.3-5.2	MR
127	HM9 (C)	3.8	S	3.0	MS	7.1	3.4	5.2	3.4-7.1	MS
128	HM10 (C)	3.0	MS	4.0	S	4.1	1.8	3.0	1.8-4.1	R
129	Bio -9637(C)	3.0	MS	3.0	MS	4.2	2.4	3.3	2.4-4.2	MR
130	RES. CHECK	1.8	MR	-	-	-	2.4	2.4	4.8-7.7	MS
131	SUS. CHECK	4.3	S	-	-	7.7	4.8	6.3	4.8-7.7	MS

Resistant Check : P. RUST:- NITHYASHREE (MANDYA); C. ROT:- JCY 2-7 (HYDERABAD)

**Susceptible Check : P. RUST :-219J (MANDYA); C.RUST:- CM 202 (ARBHAVI); C. ROT:- CM 600 (LUDHIANA);
BML 6 (HYDERABAD)**

Contd.

S.No	Genotype	FSR (1-9)		SDM (%)		RDM (%)		
		UDAI	Reaction	MAND	COIM*	Reaction	UDAI	Reaction
1	JH 13204	2.5	R	70.7	15.0	S	16.0	MR
2	LMH 414	1.2	R	100.0	2.5	S	29.0	MS
3	JH 13172	3.0	R	91.7	5.0	S	6.0	R
4	QMH-1025	1.9	R	100.0	15.0	S	31.0	MS
5	DMRH 1413	3.3	MR	100.0	0.0	S	10.0	R
6	KH-545	3.5	MR	100.0	0.0	S	11.0	MR
7	EH-2372	3.0	R	100.0	15.0	S	44.0	MS
8	DH1411	1.8	R	98.0	7.5	S	26.0	MS
9	TMMH 801	2.4	R	100.0	2.5	S	29.0	MS
10	BH 412065	3.2	MR	100.0	20.0	S	23.0	MR
11	IAHM 2013-9	2.9	R	94.2	65.0	S	39.0	MS
12	DMRH 1410	3.0	R	100.0	10.0	S	78.0	S
13	BH 412063	4.7	MR	92.5	25.0	S	9.0	R
14	UDMH-115	3.7	MR	98.2	7.5	S	12.0	MR
15	PM 14106M	4.4	MR	100.0	2.5	S	25.0	MR
16	DMRH 1416	2.6	R	100.0	0.0	S	0.0	R
17	EH-2380	2.3	R	100.0	25.0	S	36.0	MS
18	BH 412084	5.3	MS	97.8	15.0	S	33.0	MS
19	QMH-1034	4.3	MR	100.0	5.0	S	20.0	MR
20	EH-2381	3.2	MR	100.0	20.0	S	38.0	MS
21	DMRH 1412	3.4	MR	100.0	0.0	S	23.0	MR
22	PMH 2277	3.9	MR	100.0	17.5	S	14.0	MR
23	JH 13246	2.6	R	100.0	17.5	S	33.0	MS

Contd.

S.No	Genotype	FSR (1-9)		SDM (%)		RDM (%)		
		UDAI	Reaction	MAND	COIM*	Reaction	UDAI	Reaction
24	JH 13139	2.2	R	55.2	15.0	S	33.0	MS
25	MMH 5-13	5.2	MS	100.0	5.0	S	29.0	MS
26	AH-1323	3.2	MR	100.0	10.0	S	25.0	MR
27	EH-2235	2.9	R	100.0	17.5	S	22.0	MR
28	IAHM 2013-97	4.4	MR	100.0	20.0	S	14.0	MR
29	HT 51412616	4.0	MR	88.2	7.5	S	12.0	MR
30	QMH-1015	7.7	S	100.0	10.0	S	0.0	R
31	ZMH-999	2.7	R	100.0	22.5	S	17.0	MR
32	KDMH 100-8	3.6	MR	100.0	12.5	S	27.0	MS
33	JH 13114	4.5	MR	52.8	5.0	S	0.0	R
34	HT 51412373	4.2	MR	71.0	17.5	S	6.0	R
35	DAS-MH-306	8.0	S	100.0	0.0	S	38.0	MS
36	DH 1413	1.7	R	100.0	15.0	S	32.0	MS
37	NMH-3612	3.0	R	87.5	5.0	S	0.0	R
38	DMRH 1417	2.5	R	100.0	15.0	S	36.0	MS
39	DH 1403	3.1	MR	95.5	12.5	S	27.0	MS
40	MMH 2-13	7.7	S	100.0	5.0	S	18.0	MR
41	JH 13164	2.7	R	100.0	27.5	S	11.0	MR
42	GPS 01	6.6	MS	100.0	32.5	S	80.0	S
43	BL 897	3.9	MR	44.8	12.5	S	6.0	R
44	MMH 4-13	2.8	R	98.2	20.0	S	20.0	MR
45	REH 2013-1	3.0	R	100.0	25.0	S	25.0	MR
46	Proline 786	2.8	R	100.0	27.5	S	31.0	MS
47	Zuari Nandiri	3.1	MR	100.0	15.0	S	13.0	MR
48	BH 412120	2.1	R	100.0	45.0	S	31.0	MS

Contd.

S.No	Genotype	FSR (1-9)		SDM (%)		RDM (%)		
		UDAI	Reaction	MAND	COIM*	Reaction	UDAI	Reaction
49	CMH 11-593	3.1	MR	98.0	17.5	S	12.0	MR
50	REH 2013-4	3.2	MR	100.0	12.5	S	75.0	S
51	SriKARN 4689	1.5	R	88.3	17.5	S	0.0	R
52	LMH 314	2.4	R	95.5	15.0	S	0.0	R
53	KH-517 Gold	2.6	R	100.0	17.5	S	21.0	MR
54	JH 13054	1.5	R	98.8	10.0	S	0.0	R
55	AWLH 2	3.7	MR	100.0	12.5	S	36.0	MS
56	JH 13226	3.7	MR	100.0	5.0	S	17.0	MR
57	HKH 342	2.3	R	100.0	10.0	S	20.0	MR
58	TI 8261	2.3	R	100.0	20.0	S	7.0	R
59	CMH 11-619	2.5	R	100.0	7.5	S	40.0	MS
60	GK-3120	2.1	R	100.0	0.0	S	15.0	MR
61	DH 1415	2.5	R	100.0	7.5	S	42.0	MS
62	KF-105	6.3	MS	100.0	0.0	S	100.0	S
63	HT 51412607	3.5	MR	100.0	10.0	S	16.0	MR
64	IASH 11C022	5.8	MS	100.0	17.5	S	40.0	MS
65	JH 13117	2.8	R	60.9	10.0	S	0.0	R
66	AH-1322	4.2	MR	100.0	0.0	S	30.0	MS
67	GPS 05	2.7	R	100.0	2.5	S	60.0	S
68	PM 14108M	3.5	MR	100.0	5.0	S	7.0	R
69	KMH-4811	4.9	MR	100.0	7.5	S	0.0	R
70	BH 412067	2.2	R	100.0	20.0	S	0.0	R
71	HT 51412182	2.5	R	78.8	7.5	S	0.0	R
72	CP. 201	2.6	R	54.3	0.0	S	15.0	MR
73	LMH 114	1.8	R	100.0	2.5	S	0.0	R

Contd.

S.No	Genotype	FSR (1-9)		SDM (%)		RDM (%)		
		UDAI	Reaction	MAND	COIM*	Reaction	UDAI	Reaction
74	UDMH-101	1.7	R	100.0	0.0	S	18.0	MR
75	JH 13142	1.9	R	93.8	25.0	S	6.0	R
76	Bio 719	3.2	MR	79.3	45.0	S	13.0	MR
77	JH 13119	1.6	R	92.1	15.0	S	0.0	R
78	DMRH- 12-110	2.9	R	100.0	7.5	S	13.0	MR
79	TMMH 826	4.4	MR	97.7	10.0	S	0.0	R
80	DMRH 1308	1.8	R	98.7	5.0	S	0.0	R
81	SHIATS MS2	3.6	MR	100.0	15.0	S	13.0	MR
82	DMRM 1402	2.7	R	100.0	2.5	S	0.0	R
83	SMH-3901	3.2	MR	100.0	7.5	S	40.0	MS
84	IAHM 2013-33	2.9	R	100.0	17.5	S	40.0	MS
85	AWLH 1	4.3	MR	100.0	17.5	S	18.0	MR
86	MMH 3-13	1.7	R	100.0	27.5	S	15.0	MR
87	HKH 343	2.4	R	100.0	5.0	S	40.0	MS
88	RMH 796	4.1	MR	95.6	35.0	S	20.0	MR
89	MMH 6-13	1.6	R	100.0	20.0	S	58.0	S
90	CMH 12-665	5.9	MS	98.3	15.0	S	0.0	R
91	IAHM 2013-11	3.5	MR	100.0	5.0	S	30.0	MS
92	DMRH 1301	2.8	R	90.6	17.5	S	55.0	S
93	HT 51412081	1.7	R	100.0	22.5	S	18.0	MR
94	NMH-3662	2.9	R	83.5	5.0	S	15.0	MR
95	UDMH-114	2.0	R	100.0	7.5	S	10.0	R
96	BH 412066	2.2	R	100.0	15.0	S	20.0	MR
97	JH 13121	1.8	R	45.1	27.5	S	13.0	MR
98	JH 31605	1.8	R	98.6	15.0	S	15.0	MR

Contd.

S.No	Genotype	FSR (1-9)		SDM (%)		RDM (%)		
		UDAI	Reaction	MAND	COIM*	Reaction	UDAI	Reaction
99	JH 13215	2.5	R	100.0	0.0	S	0.0	R
100	JH 13122	1.4	R	95.9	20.0	S	20.0	MR
101	VEH 14-2	2.2	R	96.8	0.0	S	50.0	MS
102	JH 31607	2.3	R	67.0	15.0	S	33.0	MS
103	IN 8401	2.6	R	100.0	7.5	S	29.0	MS
104	DH 1429	1.5	R	100.0	10.0	S	19.0	MR
105	JKMH 4848	2.5	R	90.8	22.5	S	0.0	R
106	REH 2013-3	2.3	R	95.8	22.5	S	13.0	MR
107	IAHM 2013-26	2.3	R	100.0	2.5	S	90.0	S
108	DMRH 1302	2.6	R	100.0	17.5	S	0.0	R
109	BL 900	2.0	R	71.1	15.0	S	0.0	R
110	DMRH 1418	2.6	R	95.0	7.5	S	0.0	R
111	KDMH 100-3	2.9	R	86.2	0.0	S	0.0	R
112	CMH 11-584	1.6	R	80.3	0.0	S	0.0	R
113	JH 13224	2.2	R	78.2	0.0	S	16.0	MR
114	CMH 11-615	3.0	R	67.3	5.0	S	10.0	R
115	HKH 344	2.3	R	98.1	2.5	S	17.0	MR
116	KMH 12-25	1.6	R	100.0	5.0	S	67.0	S
117	DH1405	2.3	R	100.0	12.5	S	14.0	MR
118	LMH 214	2.7	R	70.8	15.0	S	58.0	S
119	CMH 11-586	3.1	MR	97.6	0.0	S	18.0	MR
120	BH 412044	3.3	MR	100.0	15.0	S	0.0	R
121	BH 412064	3.0	R	100.0	12.5	S	0.0	R
122	DH 1401	2.1	R	100.0	37.5	S	11.0	MR
123	PM 14107M	2.6	R	100.0	15.0	S	9.0	R

Contd.

S.No	Genotype	FSR (1-9)		SDM (%)		RDM (%)		
		UDAI	Reaction	MAND	COIM*	Reaction	UDAI	Reaction
124	BH 412062	3.1	MR	100.0	17.5	S	18.0	MR
125	DAS-MH-307	1.9	R	100.0	5.0	S	88.0	S
126	PMH 4 (C)	3.3	MR	100.0	12.5	S	65.0	S
127	HM9 (C)	2.8	R	100.0	12.5	S	25.0	MR
128	HM10 (C)	1.9	R	100.0	0.0	S	31.0	MS
129	Bio -9637(C)	NP	-	100.0	30.0	S	6.0	R
130	RES. CHECK	-	-	0.0	0.0	R	-	-
131	SUS. CHECK	8.8	S	100.0	50.0	S	100.0	S

Resistant Check : SDM:- NAH 1137 (MANDYA); CoH6 (COIMBATORE)

**Susceptible Check : FSR:- SURYA (UDAIPUR); SDM:- CM 500 (MANDYA); CM 500 (COIMBATORE)
RDM ; SURYA (UDAIPUR)**

* Data not considered due to low disease pressure

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
1	JH 13204	5.6	22.2	13.9	5.6-22.2	MR
2	LMH 414	79.5	35.4	57.4	35.4-79.5	S
3	JH 13172	0.0	14.3	7.2	0.0-14.3	R
4	QMH-1025	26.1	12.5	19.3	12.5-26.1	MR
5	DMRH 1413	66.7	28.6	47.6	28.6-66.7	MS
6	KH-545	44.2	28.6	36.4	28.6-44.2	MS
7	EH-2372	34.7	50.0	42.4	34.7-50.0	MS
8	DH1411	31.7	78.6	55.1	31.7-78.6	S
9	TMMH 801	36.7	28.6	32.6	28.6-36.7	MS
10	BH 412065	-	14.3	14.3	14.3-14.3	MR
11	IAHM 2013-9	71.4	7.1	39.2	7.1-71.4	MS
12	DMRH 1410	46.4	0.0	23.2	0.0-46.4	MR
13	BH 412063	16.1	14.3	15.2	14.3-16.1	MR
14	UDMH-115	46.9	28.6	37.8	28.6-46.9	MS
15	PM 14106M	37.4	7.1	22.3	7.1-37.4	MR
16	DMRH 1416	27.9	21.4	24.7	21.4-27.9	MR
17	EH-2380	42.2	100.0	71.1	42.2-100.0	S
18	BH 412084	20.7	21.4	21.1	21.4-20.7	MR
19	QMH-1034	34.9	14.3	24.6	14.3-34.9	MR
20	EH-2381	18.3	21.4	19.9	18.3-21.4	MR
21	DMRH 1412	75.5	28.6	52.1	28.6-75.5	S
22	PMH 2277	52.8	78.6	65.7	52.8-78.6	S
23	JH 13246	0.0	42.9	21.5	0.0-42.9	MR

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
24	JH 13139	5.0	7.1	6.1	5.1-7.1	R
25	MMH 5-13	72.1	40.0	56.1	40.0-72.1	S
26	AH-1323	0.0	0.0	0.0	0.0-0.0	R
27	EH-2235	45.8	28.6	37.2	28.6-45.8	MS
28	IAHM 2013-97	78.4	92.9	85.7	78.4-92.9	S
29	HT 51412616	9.1	37.5	23.3	9.1-37.5	MR
30	QMH-1015	34.7	8.3	21.5	8.3-34.7	MR
31	ZMH-999	60.6	28.6	44.6	28.6-60.6	MS
32	KDMH 100-8	64.2	50.0	57.1	50.0-64.2	S
33	JH 13114	0.0	33.3	16.7	0.0-33.3	MR
34	HT 51412373	66.8	7.1	37.0	7.1-66.8	MS
35	DAS-MH-306	8.4	14.3	11.3	8.4-14.3	MR
36	DH 1413	82.9	14.3	48.6	14.3-82.9	MS
37	NMH-3612	4.2	12.5	8.3	4.2-12.5	R
38	DMRH 1417	7.1	0.0	3.6	0.0-7.1	R
39	DH 1403	0.0	42.9	21.5	0.0-42.9	MR
40	MMH 2-13	91.7	7.1	49.4	7.1-91.7	MS
41	JH 13164	18.8	100.0	59.4	18.8-100.0	S
42	GPS 01	81.7	28.6	55.2	28.6-81.7	S
43	BL 897	76.0	21.4	48.7	21.4-76.0	MS
44	MMH 4-13	79.8	25.0	52.4	25.0-79.8	S
45	REH 2013-1	63.3	27.3	45.3	27.3-63.3	MS
46	Proline 786	80.7	35.7	58.2	35.7-80.7	S
47	Zuari Nandiri	75.7	28.6	52.2	28.6-75.7	S
48	BH 412120	20.6	7.1	13.9	7.1-20.6	MR

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
49	CMH 11-593	5.0	11.1	8.1	5.0-11.1	R
50	REH 2013-4	7.1	28.6	17.9	7.1-28.6	MR
51	SriKARN 4689	20.2	7.1	13.7	7.1-20.2	MR
52	LMH 314	36.2	0.0	18.1	0.0-36.2	MR
53	KH-517 Gold	37.7	35.7	36.7	35.7-37.7	MS
54	JH 13054	8.3	27.3	17.8	8.3-27.3	MR
55	AWLH 2	80.4	14.3	47.3	14.3-80.4	MS
56	JH 13226	5.0	14.3	9.7	5.0-14.3	R
57	HKH 342	100.0	35.1	67.6	35.1-100.0	S
58	TI 8261	22.9	22.2	22.5	22.2-22.9	MR
59	CMH 11-619	24.4	22.1	23.2	22.1-24.4	MR
60	GK-3120	25.4	7.1	16.3	7.1-25.4	MR
61	DH 1415	28.6	14.3	21.4	14.3-28.6	MR
62	KF-105	91.7	35.7	63.7	35.7-91.7	S
63	HT 51412607	50.0	28.6	39.3	28.6-50.0	MS
64	IASH 11C022	38.1	42.9	40.5	38.1-42.9	MS
65	JH 13117	15.4	21.4	18.4	15.4-21.4	MR
66	AH-1322	47.3	21.4	34.3	21.4-47.5	MS
67	GPS 05	18.8	7.1	13.0	7.1-18.8	MR
68	PM 14108M	26.1	21.4	23.7	21.4-26.1	MR
69	KMH-4811	24.1	14.3	19.2	14.3-24.1	MR
70	BH 412067	71.4	0.0	35.7	0.0-71.4	MS
71	HT 51412182	5.6	0.0	2.8	0.0-5.6	R
72	CP. 201	22.5	21.4	22.0	21.4-22.5	MR
73	LMH 114	17.8	22.2	20.0	17.8-22.2	MR

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
74	UDMH-101	78.9	78.6	78.7	78.6-78.9	S
75	JH 13142	12.9	92.9	52.9	12.9-92.9	S
76	Bio 719	19.1	22.2	20.6	19.1-22.2	MR
77	JH 13119	21.7	7.1	14.4	7.1-21.7	MR
78	DMRH- 12-110	15.3	21.4	18.4	15.3-21.4	MR
79	TMMH 826	40.6	14.3	27.4	14.3-40.6	MS
80	DMRH 1308	0.0	0.0	0.0	0.0-0.0	R
81	SHIATS MS2	37.2	22.2	29.7	22.2-37.2	MS
82	DMRM 1402	29.2	0.0	14.6	0.0-29.2	MR
83	SMH-3901	55.8	42.9	49.3	42.9-55.8	MS
84	IAHM 2013-33	61.9	14.3	38.1	14.3-61.9	MS
85	AWLH 1	3.6	10.1	6.8	3.6-10.1	R
86	MMH 3-13	18.3	0.0	9.1	0.0-18.3	R
87	HKH 343	28.6	11.0	19.8	11.0-28.6	MR
88	RMH 796	12.5	21.4	17.0	12.5-21.4	MR
89	MMH 6-13	34.3	21.4	27.8	21.4-34.3	MS
90	CMH 12-665	4.6	14.3	9.4	4.6-14.3	R
91	IAHM 2013-11	33.3	42.9	38.1	33.3-42.9	MS
92	DMRH 1301	55.0	14.3	34.7	14.3-55.0	MS
93	HT 51412081	63.3	14.3	38.8	14.3-63.3	MS
94	NMH-3662	0.0	28.6	14.3	0.0-28.6	MR
95	UDMH-114	56.8	14.3	35.6	14.3-56.8	MS
96	BH 412066	41.0	100.0	70.5	14.0-100.0	S
97	JH 13121	10.0	0.0	5.0	0.0-10.0	R
98	JH 31605	17.1	44.4	30.7	17.1-44.4	MS

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
99	JH 13215	8.3	21.4	14.9	8.3-21.4	MR
100	JH 13122	9.6	7.1	8.3	7.1-9.6	R
101	VEH 14-2	58.3	21.4	39.9	21.4-58.3	MS
102	JH 31607	12.9	21.4	17.1	12.9-21.4	MR
103	IN 8401	0.0	0.0	0.0	0.0-0.0	R
104	DH 1429	41.8	7.1	24.5	7.1-41.8	MR
105	JKMH 4848	36.0	42.9	39.5	36.0-42.9	MS
106	REH 2013-3	11.1	14.3	12.7	11.1-14.3	MR
107	IAHM 2013-26	50.0	20.0	35.0	20.0-50.0	MS
108	DMRH 1302	56.9	7.1	32.0	7.1-56.9	MS
109	BL 900	29.9	50.0	39.9	29.9-50.0	MS
110	DMRH 1418	8.3	14.3	11.3	8.3-14.3	MR
111	KDMH 100-3	18.3	42.9	30.6	18.3-42.9	MS
112	CMH 11-584	0.0	7.1	3.6	0.0-7.1	R
113	JH 13224	0.0	33.3	16.7	0.0-33.3	MR
114	CMH 11-615	4.6	20.0	12.3	4.6-20.0	MR
115	HKH 344	29.2	0.0	14.6	0.0-29.2	MR
116	KMH 12-25	57.2	57.0	57.1	57.0-57.2	S
117	DH1405	41.4	7.1	24.3	7.1-41.4	MR
118	LMH 214	0.0	14.3	7.2	0.0-14.3	R
119	CMH 11-586	13.3	28.6	20.9	13.3-28.6	MR
120	BH 412044	25.4	14.3	19.8	14.3-25.4	MR
121	BH 412064	52.7	21.4	37.1	21.4-52.7	MS
122	DH 1401	13.6	14.3	14.0	14.3-13.6	MR
123	PM 14107M	8.3	21.4	14.9	8.3-21.4	MR

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
124	BH 412062	5.6	42.1	23.8	5.6-42.1	MR
125	DAS-MH-307	4.2	42.9	23.5	4.2-42.9	MR
126	PMH 4 (C)	27.5	14.3	20.9	14.3-27.5	MR
127	HM9 (C)	50.0	21.4	35.7	21.4-50.0	MS
128	HM10 (C)	46.8	11.3	29.0	11.3-46.8	MS
129	Bio -9637(C)	43.2	92.9	68.0	43.2-92.9	S
130	RES. CHECK	84.2	28.3	56.3	28.3-84.2	S

Susceptible Check :BSR:- CM600 (PANTNAGAR) DKC 7074 (DHAULAKUAN)

Contd.

S.No	Genotype	CLS (1-5)				Cyst/ plant (n=5)		
		UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
1	JH 13204	2.5	2.0	2.3	2.0-2.5	MR	10--16	S
2	LMH 414	2.5	2.0	2.3	2.0-2.5	MR	17--25	S
3	JH 13172	3.0	2.0	2.5	2.0-3.0	MR	11--18	S
4	QMH-1025	3.5	1.3	2.4	1.3-3.5	MR	7--13	S
5	DMRH 1413	4.5	2.0	3.3	2.0-4.5	MS	8--15	S
6	KH-545	4.5	2.0	3.3	2.0-4.5	MS	24--31	S
7	EH-2372	4.0	2.0	3.0	2.0-4.0	MR	20--26	S
8	DH1411	1.0	1.3	1.1	1.0-1.3	R	8--14	S
9	TMMH 801	4.0	2.0	3.0	2.0-4.0	MR	11--20	S
10	BH 412065	4.5	2.0	3.3	2.0-4.5	MS	11--17	S
11	IAHM 2013-9	4.5	2.0	3.3	2.0-4.5	MS	14--22	S
12	DMRH 1410	3.5	2.0	2.8	2.0-3.5	MR	23--32	S
13	BH 412063	4.0	1.3	2.6	1.3-4.0	MR	12--20	S
14	UDMH-115	4.5	1.3	2.9	1.3-4.5	MR	12--23	S
15	PM 14106M	2.0	1.3	1.6	1.3-2.0	R	18--27	S
16	DMRH 1416	1.5	2.0	1.8	1.5-2.0	R	29--38	S
17	EH-2380	1.5	3.0	2.3	1.5-3.0	MR	7--13	S
18	BH 412084	1.5	3.0	2.3	1.5-3.0	MR	21--30	S
19	QMH-1034	2.0	3.0	2.5	2.0-3.0	MR	15--24	S
20	EH-2381	2.0	1.3	1.6	1.3-2.0	R	5--13	S
21	DMRH 1412	2.0	2.0	2.0	2.0-2.0	R	26--33	S
22	PMH 2277	1.5	3.0	2.3	1.5-3.0	MR	15--23	S
23	JH 13246	1.0	2.0	1.5	1.0-2.0	R	12--19	S

Contd.

S.No	Genotype	CLS (1-5)				Cyst/ plant (n=5)		
		UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
24	JH 13139	4.0	1.3	2.6	1.3-4.0	MR	9--15	S
25	MMH 5-13	3.0	2.0	2.5	2.0-3.	MR	31--38	S
26	AH-1323	4.0	1.3	2.6	1.3-4.0	MR	25--34	S
27	EH-2235	1.5	2.0	1.8	1.5-2.0	R	23--30	S
28	IAHM 2013-97	4.0	3.0	3.5	3.0-4.0	MS	20--26	S
29	HT 51412616	2.0	1.3	1.6	1.3-2.0	R	8--14	S
30	QMH-1015	2.5	3.0	2.8	2.5-3.0	MR	37--42	S
31	ZMH-999	2.5	3.0	2.8	2.5-3.0	MR	16--24	S
32	KDMH 100-8	3.5	2.0	2.8	2.0-3.5	MR	13--18	S
33	JH 13114	1.5	2.0	1.8	1.5-2.0	R	9--16	S
34	HT 51412373	3.5	2.0	2.8	2.0-3.5	MR	5--11	S
35	DAS-MH-306	3.0	3.0	3.0	3.0-3.0	MR	29--39	S
36	DH 1413	1.0	1.3	1.1	1.0-1.3	R	21--26	S
37	NMH-3612	1.5	3.0	2.3	1.5-3.0	MR	10--18	S
38	DMRH 1417	1.5	2.0	1.8	1.5-2.0	R	17--23	S
39	DH 1403	2.0	3.0	2.5	2.0-3.0	MR	12--19	S
40	MMH 2-13	3.5	2.0	2.8	2.0-3.5	MR	35--45	S
41	JH 13164	3.5	2.0	2.8	2.0-3.5	MR	8--17	S
42	GPS 01	3.0	3.0	3.0	3.0-3.0	MR	26--35	S
43	BL 897	1.5	2.0	1.8	1.5-2.0	R	10--17	S
44	MMH 4-13	4.5	2.0	3.3	2.0-4.5	MS	14--21	S
45	REH 2013-1	2.5	2.0	2.3	2.0-4.5	MR	20--26	S
46	Proline 786	2.5	3.0	2.8	2.5-3.0	MR	15--21	S
47	Zuari Nandiri	2.0	2.0	2.0	2.0-2.0	R	17--23	S
48	BH 412120	1.0	2.0	1.5	1.0-2.0	R	6--11	S

Contd.

S.No	Genotype	CLS (1-5)				Cyst/ plant (n=5)		
		UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
49	CMH 11-593	3.5	1.3	2.4	1.3-3.5	MR	2--7	MR
50	REH 2013-4	1.5	1.3	1.4	1.3-1.5	R	28--37	S
51	SriKARN 4689	2.5	3.0	2.8	2.5-3.0	MR	13--20	S
52	LMH 314	3.5	2.0	2.8	2.0-3.5	MR	3--8	MR
53	KH-517 Gold	2.0	3.0	2.5	2.0-3.0	MR	17--24	S
54	JH 13054	0.5	2.0	1.3	0.5-2.0	R	11--16	S
55	AWLH 2	2.0	2.0	2.0	2.0-2.0	R	27--33	S
56	JH 13226	3.5	2.0	2.8	2.0-3.5	MR	4--10	S
57	HKH 342	1.5	3.0	2.3	1.5-3.0	MR	15--23	S
58	TI 8261	1.0	2.0	1.5	1.0-2.0	R	26--32	S
59	CMH 11-619	3.5	1.3	2.4	1.3-3.5	MR	11--20	S
60	GK-3120	3.0	2.0	2.5	2.0-3.0	MR	29--37	S
61	DH 1415	1.5	1.3	1.4	1.3-1.5	R	10--18	S
62	KF-105	2.5	3.0	2.8	2.5-3.0	MR	35--43	S
63	HT 51412607	2.0	2.0	2.0	2.0-2.0	R	3--6	MR
64	IASH 11C022	2.0	2.0	2.0	2.0-2.0	R	11--16	S
65	JH 13117	1.5	3.0	2.3	1.5-3.0	MR	10--18	S
66	AH-1322	4.0	2.0	3.0	2.0-4.0	MR	13--23	S
67	GPS 05	3.5	2.0	2.8	2.0-3.5	MR	11--19	S
68	PM 14108M	3.0	2.0	2.5	2.0-3.0	MR	24--31	S
69	KMH-4811	3.5	2.0	2.8	2.0-3.5	MR	20--26	S
70	BH 412067	2.0	2.0	2.0	2.0-2.0	R	31--36	S
71	HT 51412182	2.0	3.0	2.5	2.0-3.0	MR	15--22	S
72	CP. 201	1.5	1.3	1.4	1.3-1.5	R	10--17	S
73	LMH 114	2.0	2.0	2.0	2.0-2.0	R	21--29	S

Contd.

S.No	Genotype	CLS (1-5)				Cyst/ plant (n=5)		
		UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
74	UDMH-101	0.5	3.0	1.8	0.5-3.0	R	23--32	S
75	JH 13142	2.5	2.0	2.3	2.0-2.5	MR	13--22	S
76	Bio 719	2.0	1.3	1.6	1.3-2.0	R	20--30	S
77	JH 13119	2.5	2.0	2.3	2.0-2.5	MR	17--23	S
78	DMRH- 12-110	1.5	2.0	1.8	1.5-2.0	R	10--18	S
79	TMMH 826	2.5	3.0	2.8	2.5-3.0	MR	17--26	S
80	DMRH 1308	2.0	2.0	2.0	2.0-2.0	R	12--20	S
81	SHIATS MS2	2.0	1.3	1.6	1.3-2.0	R	21--28	S
82	DMRM 1402	1.5	3.0	2.3	1.5-3.0	MR	23--31	S
83	SMH-3901	1.5	3.0	2.3	1.5-3.0	MR	30--37	S
84	IAHM 2013-33	1.0	3.0	2.0	1.0-3.0	R	20--26	S
85	AWLH 1	2.5	1.3	1.9	1.3-2.5	R	11--20	S
86	MMH 3-13	1.5	1.3	1.4	1.3-1.5	R	37--48	S
87	HKH 343	2.0	1.3	1.6	1.3-2.0	R	15--24	S
88	RMH 796	1.5	1.3	1.4	1.3-1.5	R	23--32	S
89	MMH 6-13	1.5	2.0	1.8	1.5-2.0	R	30--37	S
90	CMH 12-665	3.0	2.0	2.5	2.0-3.0	MR	14--22	S
91	IAHM 2013-11	2.5	2.0	2.3	2.0-2.5	MR	31--40	S
92	DMRH 1301	2.5	1.3	1.9	1.3-2.5	R	30--38	S
93	HT 51412081	1.5	2.0	1.8	1.5-2.0	R	22--29	S
94	NMH-3662	1.0	3.0	2.0	1.0-3.0	R	10--16	S
95	UDMH-114	4.5	1.3	2.9	1.3-4.5	MR	14--24	S
96	BH 412066	4.5	1.0	2.8	1.0-4.5	MR	11--20	S
97	JH 13121	3.5	1.3	2.4	1.3-3.5	MR	4--9	MR
98	JH 31605	5.0	2.0	3.5	2.0-5.0	MS	12--18	S

Contd.

S.No	Genotype	CLS (1-5)				Cyst/ plant (n=5)		
		UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
99	JH 13215	4.5	2.0	3.3	2.0-4.5	MS	15--22	S
100	JH 13122	2.0	2.0	2.0	2.0-2.0	R	8--14	S
101	VEH 14-2	4.5	2.0	3.3	2.0-4.5	MS	22--31	S
102	JH 31607	3.0	2.0	2.5	2.0-3.0	MR	3--7	MR
103	IN 8401	2.5	2.0	2.3	2.0-2.5	MR	21--27	S
104	DH 1429	2.0	1.3	1.6	1.3-2.0	R	27--35	S
105	JKMH 4848	3.5	4.0	3.8	3.5-4.0	MS	21--30	S
106	REH 2013-3	1.0	2.0	1.5	1.0-2.0	R	17--23	S
107	IAHM 2013-26	2.0	1.3	1.6	1.3-2.0	R	16--25	S
108	DMRH 1302	3.0	3.0	3.0	3.0-3.0	MR	18--22	S
109	BL 900	1.5	3.0	2.3	1.5-3.0	MR	11--16	S
110	DMRH 1418	2.0	1.3	1.6	1.3-2.0	R	33--41	S
111	KDMH 100-3	3.0	3.0	3.0	3.0-3.0	MR	15--20	S
112	CMH 11-584	2.5	1.3	1.9	1.3-2.5	R	3--8	MR
113	JH 13224	1.5	2.0	1.8	1.5-2.0	R	7--14	S
114	CMH 11-615	2.0	3.0	2.5	2.0-3.0	MR	10--16	S
115	HKH 344	3.0	1.3	2.1	1.3-3.0	MR	22--30	S
116	KMH 12-25	2.5	1.3	1.9	1.3-2.5	R	25--34	S
117	DH1405	3.5	2.0	2.8	2.0-3.5	MR	2--8	MR
118	LMH 214	3.0	2.0	2.5	2.0-3.0	MR	11--19	S
119	CMH 11-586	3.0	1.3	2.1	1.3-3.0	MR	10--15	S
120	BH 412044	3.0	2.0	2.5	2.0-3.0	MR	23--26	S
121	BH 412064	1.0	3.0	2.0	1.0-3.0	R	22--29	S
122	DH 1401	2.5	3.0	2.8	2.5-3.0	MR	3--9	MR
123	PM 14107M	1.5	2.0	1.8	1.5-2.0	R	20--27	S

Contd.

S.No	Genotype	CLS (1-5)				Cyst/ plant (n=5)		
		UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
124	BH 412062	1.5	2.0	1.8	1.5-2.0	R	28--33	S
125	DAS-MH-307	2.5	2.0	2.3	2.0-2.5	MR	37--45	S
126	PMH 4 (C)	2.0	2.0	2.0	2.0-2.0	R	17--22	S
127	HM9 (C)	3.5	1.3	2.4	1.3-3.5	MR	24--31	S
128	HM10 (C)	3.0	2.0	2.5	2.0-3.0	MR	30--39	S
129	Bio -9637(C)	3.0	1.3	2.1	1.3-3.0	MR	13--21	S
130	RES. CHECK	5.0	4.0	4.5	4.0-5.0	S	24--33	S

**Susceptible Check :CLS:-SURYA (UDAIPUR); DKC 7074 (DHAULAKUAN)
CYST NEMATODE:- PEEHM-5 (UDAIPUR)**

Table 3. Disease screening of IVT (early maturity) maize hybrids (Trial 63)

Maydis leaf blight score (1-5)									
S.No	Genotype	DHO	KAR	LUD	DHU	DEL	Av. Score	Range	Reaction
1	CMH 12-675	1.0	1.5	2.8	2.0	2.0	1.9	1.0-2.8	R
2	FH 3704	3.0	3.1	4.5	4.0	2.0	3.3	2.0-4.5	MS
3	EH-2371	2.5	1.7	3.3	3.0	2.0	2.5	1.7-3.3	MR
4	KF-95	2.5	1.9	3.8	4.0	2.5	2.9	1.9-4.0	MR
5	KMH 12-9	3.5	2.4	3.3	3.5	2.0	2.9	2.0-3.5	MR
6	LMH 614	3.0	2.4	3.8	3.0	2.0	2.8	2.0-3.8	MR
7	BH 412093	1.5	2.2	3.3	4.0	2.5	2.7	1.5-4.0	MR
8	HKH 345	2.5	2.1	2.8	3.0	2.0	2.5	2.0-3.0	MR
9	LMH 514	3.0	1.8	3.3	4.0	2.5	2.9	1.8-4.0	MR
10	HKH 347	3.0	1.7	4.0	3.0	2.5	2.8	1.7-4.0	MR
11	CMH 12-697	2.5	1.8	2.8	3.0	1.5	2.3	1.5-3.0	MR
12	HKH 346	4.0	2.4	3.8	3.0	2.5	3.1	2.4-4.0	MS
13	GYH-0656	3.5	2.1	2.8	3.0	2.5	2.8	2.1-3.5	MR
14	KMH 12-18	3.0	3.1	3.8	4.0	3.0	3.4	3.0-4.0	MS
15	AH-1321	3.0	1.7	3.5	3.0	2.5	2.7	1.7-3.5	MR
16	CMH 10-527	1.0	2.1	2.8	1.3	2.0	1.8	1.0-2.8	R
17	AH 9001	2.0	3.1	3.8	4.0	2.0	3.0	2.0-4.0	MR
18	DH 286	3.0	1.6	3.5	4.0	1.5	2.7	1.5-4.0	MR
19	BH 412071	2.5	2.0	3.8	2.0	2.0	2.5	2.0-3.8	MR
20	JKMH 4025	1.0	2.5	2.3	2.0	2.0	2.0	1.0-2.5	R
21	PM 14109E	3.0	2.4	3.5	4.0	2.0	3.0	2.0-4.0	MR
22	DH 290	3.5	2.2	3.5	2.5	2.0	2.7	2.0-3.5	MR
23	CMH12-691	1.5	1.5	2.8	1.3	2.0	1.8	1.3-2.8	R
24	AH 7002	3.0	2.1	3.8	3.0	1.5	2.7	1.5-3.8	MR
25	AH-1318	2.5	2.1	3.8	3.0	3.0	2.9	2.1-3.8	MR

Contd.

Maydis leaf blight score (1-5)									
S.No	Genotype	DHOL	KARN	LUDH	DHAU	DELH	Av. Score	Range	Reaction
26	AH-1320	2.5	1.9	3.3	3.0	2.0	2.5	1.9-3.3	MR
27	DAS-MH-502	1.5	1.5	3.0	2.4	1.5	2.0	1.5-3.0	R
28	AH 5021	4.0	2.2	4.3	3.0	2.0	3.0	2.0-4.0	MR
29	DMRE 1403	5.0	2.5	4.3	3.0	2.0	3.4	2.0-5.0	MS
30	FH 3695	2.5	2.2	3.8	3.0	2.0	2.7	2.0-3.8	MR
31	DH 283	4.0	2.3	4.3	1.3	2.0	2.8	1.3-4.3	MR
32	KDMH 100-1	2.0	2.4	2.8	3.0	2.5	2.5	2.0-3.0	MR
33	AH-1319	2.0	2.2	3.3	3.0	2.5	2.6	2.0-3.3	MR
34	CMH10-552	2.0	1.4	2.3	1.3	2.0	1.8	1.3-2.3	R
35	KMH 12-8	3.5	2.1	4.0	3.0	2.0	2.9	2.0-4.0	MR
36	OMH 11-1	3.5	1.9	4.3	4.0	2.0	3.1	1.9-4.0	MS
37	AH 7001	3.0	1.6	3.3	1.3	2.0	2.2	1.3-3.0	MR
38	K-26	2.5	3.2	2.8	3.0	3.5	3.0	2.5-3.5	MR
39	SAMH-221	3.5	2.1	2.0	2.5	2.5	2.5	2.0-3.5	MR
40	GYH-0461	3.5	1.6	3.3	3.0	2.5	2.8	1.6-3.5	MR
41	GWH-0330	4.0	1.9	4.5	3.0	2.5	3.2	1.9-4.5	MS
42	BH 412055	2.5	1.8	2.8	3.0	2.0	2.4	1.8-3.0	MR
43	EH-2244	2.5	2.1	3.3	3.5	2.0	2.7	2.0-3.5	MR
44	GWH-0503	4.0	2.8	4.5	4.0	3.0	3.7	2.8-4.0	MS
45	PM 14110E	2.5	1.9	3.8	3.0	2.0	2.6	1.9-3.8	MR
46	FH 3703	2.0	1.8	3.3	3.0	2.5	2.5	1.8-3.3	MR
47	Shalimaar Maize Com 6	3.5	1.9	3.3	4.0	2.5	3.0	1.9-4.0	MR
48	Shalimaar Maize Com 7	3.0	2.4	4.0	3.0	2.5	3.0	2.4-4.0	MR
49	Shalimaar Maize Com 5	3.0	1.9	4.5	4.0	2.5	3.2	1.9-4.5	MS
50	Shalimaar Maize Hybrid 2	3.0	2.1	4.3	3.0	3.0	3.1	2.1-4.3	MS
51	Prakash (C)	3.0	1.6	3.5	2.0	2.0	2.4	1.6-3.5	MR

Contd.

Maydis leaf blight score (1-5)									
S.No	Genotype	DHOL	KARN	LUDH	DHAU	DELH	Av. Score	Range	Reaction
52	RES. CHECK	-	1.3	-	-	-	1.3	1.3	R
53	SUS. CHECK	4.5	3.6	4.5	3.0	4.5	4.0	3.0-4.5	MS

Resistant Check : MLB:- HQPM 1 (KARNAL)

**Susceptible Check : MLB:- CML 186 (DHOLI); HKI 1105 + HKI 536CBT (KARNAL); CM 600 (LUDHIANA)
DKC 7074 (DHAULAKUAN); CM 600 (DELHI)**

Contd.

Turcicum leaf blight score (1-5)								
S.No	Genotype	BAJ	ALM	MAND	ARB	Av. Score	Range	Reaction
1	CMH 12-675	1.5	2.0	3.0	4.5	2.8	1.5-4.5	MR
2	FH 3704	2.5	2.0	3.0	5.0	3.1	2.0-5.0	MS
3	EH-2371	2.8	3.0	3.3	4.5	3.4	2.8-4.5	MS
4	KF-95	4.3	3.5	3.0	4.5	3.8	3.0-4.5	MS
5	KMH 12-9	3.3	3.0	3.0	4.0	3.3	3.0-4.0	MS
6	LMH 614	2.0	1.5	3.0	4.0	2.6	1.5-4.0	MR
7	BH 412093	2.5	2.5	2.3	3.0	2.6	2.3-3.0	MR
8	HKH 345	2.3	1.5	3.3	4.0	2.8	1.5-4.0	MR
9	LMH 514	2.0	1.5	3.3	4.5	2.8	1.5-4.5	MR
10	HKH 347	2.0	1.5	2.5	4.0	2.5	1.5-4.0	MR
11	CMH 12-697	2.3	1.5	3.0	5.0	2.9	1.5-5.0	MR
12	HKH 346	2.0	1.5	2.8	4.0	2.6	1.5-4.0	MR
13	GYH-0656	2.8	2.0	3.3	4.5	3.1	2.0-4.5	MS
14	KMH 12-18	2.8	3.5	3.0	4.5	3.4	2.8-4.5	MS
15	AH-1321	2.0	2.0	2.8	5.0	3.0	2.0-5.0	MR
16	CMH 10-527	1.5	2.5	3.0	4.0	2.8	1.5-4.0	MR
17	AH 9001	1.5	3.0	2.8	5.0	3.1	1.5-5.0	MS
18	DH 286	4.0	2.5	3.3	5.0	3.7	2.5-5.0	MS
19	BH 412071	1.8	2.0	2.5	4.0	2.6	1.8-4.0	MR
20	JKMH 4025	2.3	2.0	2.5	4.5	2.8	2.0-4.5	MR
21	PM 14109E	2.5	3.0	3.3	5.0	3.5	2.5-5.0	MS
22	DH 290	3.3	2.0	3.3	5.0	3.4	2.0-5.0	MS
23	CMH12-691	2.0	2.0	2.5	4.5	2.8	2.0-4.5	MR
24	AH 7002	2.5	2.0	3.0	4.5	3.0	2.0-4.5	MR
25	AH-1318	3.8	4.0	3.3	4.5	3.9	3.3-4.5	MS

Contd.

Turcicum leaf blight score (1-5)								
S.No	Genotype	BAJA	ALMO	MAND	ARBH	Av. Score	Range	Reaction
26	AH-1320	2.3	4.0	3.0	4.0	3.3	2.3-4.0	MS
27	DAS-MH-502	2.0	3.0	3.3	4.0	3.1	2.0-4.0	MS
28	AH 5021	2.5	2.5	3.3	5.0	3.3	2.5-5.0	MS
29	DMRE 1403	4.3	4.5	3.3	4.5	4.1	3.3-4.5	S
30	FH 3695	2.3	2.0	2.8	3.5	2.6	2.0-3.5	MR
31	DH 283	4.3	1.5	3.8	4.0	3.4	1.5-4.3	MS
32	KDMH 100-1	2.3	4.0	3.0	4.0	3.3	2.3-4.0	MS
33	AH-1319	2.3	2.0	2.8	4.0	2.8	2.0-4.0	MR
34	CMH10-552	2.0	2.0	3.0	4.0	2.8	2.0-4.0	MR
35	KMH 12-8	2.8	3.5	3.3	4.5	3.5	2.8-4.5	MS
36	OMH 11-1	2.0	2.0	3.0	4.5	2.9	2.0-4.5	MR
37	AH 7001	3.3	2.5	3.3	4.5	3.4	2.5-4.5	MS
38	K-26	2.0	2.5	3.0	4.5	3.0	2.0-4.5	MR
39	SAMH-221	1.8	2.0	3.0	5.0	2.9	1.8-5.0	MR
40	GYH-0461	3.8	3.0	3.3	4.5	3.6	3.0-4.5	MS
41	GWH-0330	3.8	4.0	3.3	5.0	4.0	3.3-5.0	MS
42	BH 412055	1.8	3.0	2.5	4.0	2.8	1.8-4.0	MR
43	EH-2244	3.0	3.5	3.3	5.0	3.7	3.0-5.0	MS
44	GWH-0503	3.5	3.0	3.5	5.0	3.8	3.0-5.0	MS
45	PM 14110E	2.8	3.5	3.3	4.5	3.5	2.8-4.5	MS
46	FH 3703	1.8	2.0	2.8	4.0	2.6	1.8-4.0	MR
47	Shalimaar Maize Com 6	2.3	3.5	3.0	4.0	3.2	2.3-4.0	MS
48	Shalimaar Maize Com 7	3.8	2.5	3.3	4.5	3.5	2.5-4.5	MS
49	Shalimaar Maize Com 5	3.5	3.0	3.0	3.5	3.3	3.0-3.5	MS
50	Shalimaar Maize Hybrid 2	2.3	3.0	3.0	4.0	3.1	2.3-4.0	MS
51	Prakash (C)	4.3	3.5	3.3	5.0	4.0	3.3-5.0	MS

Contd.

Turcicum leaf blight score (1-5)								
S.No	Genotype	BAJA	ALMO	MAND	ARBH	Av. Score	Range	Reaction
52	RES. CHECK	-	2.0	2.0	-	2.0	2.0-2.0	R
53	SUS. CHECK	4.3	4.5	4.0	-	4.3	4.0-4.5	S
54	SUS. CHECK - Local	5.0	-	-	-	5.0	5.0	S

Resistant Check : TLB:- V373 (ALMORA); NITHYASHREE (MANDYA)

Susceptible Check : TLB:- CM 202 (BAJAURA); DHYARI LOCAL (ALMORA); 219J (MANDYA); CM202 (ARBHAVI)

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MID	PANT	DHU	DEL	BHU	KAR	Av. Score	Range	Reaction
1	CMH 12-675	5.0	4.3	3.0	3.0	3.8	2.0	3.5	2.0-5.0	MS
2	FH 3704	5.0	4.5	4.0	3.5	3.3	3.1	3.9	3.1-5.0	MS
3	EH-2371	4.8	4.3	4.0	3.5	3.0	2.0	3.6	2.0-4.8	MS
4	KF-95	3.2	5.0	3.5	3.5	2.5	2.2	3.3	2.2-5.0	MS
5	KMH 12-9	5.0	4.0	4.0	3.0	4.0	3.3	3.9	3.0-5.0	MS
6	LMH 614	5.0	4.5	4.0	2.5	3.8	2.2	3.7	2.2-5.0	MS
7	BH 412093	5.0	4.5	3.0	3.5	3.8	2.1	3.7	2.1-5.0	MS
8	HKH 345	4.0	4.8	4.0	3.0	2.5	3.6	3.6	2.5-4.8	MS
9	LMH 514	4.9	4.8	4.0	3.0	2.0	2.2	3.5	2.0-4.9	MS
10	HKH 347	5.0	4.3	4.5	3.0	2.5	2.8	3.7	2.5-5.0	MS
11	CMH 12-697	4.6	3.5	2.0	2.0	4.0	2.1	3.0	2.0-4.6	MR
12	HKH 346	4.2	4.5	3.0	3.0	3.5	2.2	3.4	2.2-4.5	MS
13	GYH-0656	3.4	4.5	4.0	3.5	3.8	3.8	3.8	3.4-4.5	MS
14	KMH 12-18	5.0	4.0	4.0	3.5	3.3	2.1	3.7	2.1-5.0	MS
15	AH-1321	4.0	3.8	2.5	3.0	2.5	2.2	3.0	2.2-4.0	MR
16	CMH 10-527	5.0	4.3	4.0	3.0	3.8	3.4	3.9	3.0-5.0	MS
17	AH 9001	5.0	5.0	4.5	4.0	4.3	3.0	4.3	3.0-5.0	S
18	DH 286	4.8	4.8	2.0	3.5	3.5	3.5	3.7	2.0-4.8	MS
19	BH 412071	5.0	3.8	4.0	3.5	3.0	1.9	3.5	1.9-5.0	MS
20	JKMH 4025	5.0	4.5	2.5	3.0	3.0	3.0	3.5	2.5-5.0	MS
21	PM 14109E	5.0	5.0	4.0	3.5	2.5	3.3	3.9	2.5-5.0	MS
22	DH 290	4.6	4.3	3.0	3.0	3.5	2.6	3.5	2.6-4.6	MS
23	CMH12-691	4.1	5.0	4.0	3.0	3.8	2.2	3.7	2.2-5.0	MS
24	AH 7002	5.0	4.0	4.0	2.5	2.8	3.6	3.7	2.5-5.0	MS
25	AH-1318	4.8	4.0	3.5	3.5	3.3	3.9	3.8	3.3-4.8	MS

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MEDI	PANT	DHAU	DELH	BHUB	KARN	Av. Score	Range	Reaction
26	AH-1320	5.0	4.8	4.0	3.5	3.5	3.6	4.1	3.5-5.0	S
27	DAS-MH-502	5.0	2.8	4.5	3.0	3.0	3.8	3.7	2.8-5.0	MS
28	AH 5021	4.2	5.0	4.0	3.0	3.0	4.3	3.9	3.0-5.0	MS
29	DMRE 1403	4.8	4.3	4.0	3.0	3.5	4.4	4.0	3.0-4.8	MS
30	FH 3695	4.2	4.8	4.0	3.0	3.5	3.4	3.8	3.0-4.8	MS
31	DH 283	5.0	5.0	4.0	4.0	3.8	2.0	4.0	2.0-5.0	MS
32	KDMH 100-1	4.7	4.3	4.0	3.0	3.5	3.1	3.8	3.0-4.7	MS
33	AH-1319	4.0	4.3	3.0	3.5	3.8	3.2	3.6	3.0-4.3	MS
34	CMH10-552	4.7	4.0	3.0	2.5	3.8	1.8	3.3	1.8-4.7	MS
35	KMH 12-8	4.2	4.3	2.5	3.5	3.5	2.1	3.3	2.1-4.3	MS
36	OMH 11-1	4.2	5.0	4.0	4.0	3.8	3.8	4.1	3.8-5.0	S
37	AH 7001	5.0	3.5	4.0	2.0	4.0	3.4	3.7	2.0-5.0	MS
38	K-26	3.6	4.0	4.0	3.5	3.0	2.1	3.4	2.1-4.0	MS
39	SAMH-221	4.8	4.3	3.0	3.5	3.0	2.2	3.5	2.2-4.8	MS
40	GYH-0461	5.0	3.5	3.0	3.0	3.0	1.8	3.2	1.8-5.0	MS
41	GWH-0330	4.7	4.3	4.0	2.5	2.5	3.2	3.5	2.5-4.7	MS
42	BH 412055	4.2	4.5	3.5	3.0	2.5	2.2	3.3	2.2-4.5	MS
43	EH-2244	4.3	3.3	3.0	3.0	3.0	4.0	3.4	3.0-4.3	MS
44	GWH-0503	3.4	3.8	4.0	3.5	2.3	3.4	3.4	2.3-4.0	MS
45	PM 14110E	4.0	5.0	3.0	4.0	2.3	1.9	3.4	1.9-5.0	MS
46	FH 3703	4.5	4.8	3.5	3.0	4.0	2.1	3.6	2.1-4.8	MS
47	Shalimaar Maize Com 6	4.6	4.8	4.0	3.0	3.5	3.3	3.9	3.0-4.8	MS
48	Shalimaar Maize Com 7	4.9	4.8	3.0	3.0	3.5	3.5	3.8	3.0-4.9	MS
49	Shalimaar Maize Com 5	4.6	4.0	4.0	3.5	3.5	4.2	4.0	3.5-4.6	MS
50	Shalimaar Maize Hybrid 2	5.0	5.0	4.5	3.0	3.0	2.3	3.8	2.3-5.0	MS
51	Prakash (C)	3.2	4.5	4.0	3.5	3.8	3.4	3.7	3.2-4.5	MS

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MEDI	PANT	DHAU	DELH	BHUB	KARN	Av. Score	Range	Reaction
52	RES. CHECK	-	-	-	-	-	1.7	1.7	1.7	R
53	SUS. CHECK	-	4.8	4	4.0	4.3	4.2	4.3	4.0-4.8	S

Resistant Check : BLSB:- HQPM 1 (KARNAL)

**Susceptible Check : BLSB:- AMAR (PANTNAGAR); CML 186 (DHAULAKUAN); CM501 (DELHI); P3441 (BHUBNESWAR)
HKI 1105+ HKI 536CBT (KARNAL)**

Contd.

S.No	Genotype	P.RUST (1-5)		C.RUST (1-5)		C.ROT (1-9)		Av. Score	Range	Reaction
		MAND	Reaction	ARB	Reaction	LUD	HYD			
1	CMH 12-675	2.8	MS	4.0	MS	4.2	1.3	2.7	1.3-4.2	R
2	FH 3704	3.5	S	4.5	S	6.7	2.3	4.5	2.3-6.7	MR
3	EH-2371	3.3	S	4.5	S	6.4	1.7	4.1	1.7-6.4	MR
4	KF-95	3.5	S	4.5	S	6.9	2.1	4.5	2.1-6.9	MR
5	KMH 12-9	4.5	HS	4.0	MS	7.3	2.2	4.7	2.2-7.3	MR
6	LMH 614	3.8	S	4.0	MS	5.1	1.9	3.5	1.9-5.1	MR
7	BH 412093	2.8	MS	3.0	MR	6.8	4.6	5.7	4.6-6.8	MS
8	HKH 345	2.5	MS	3.0	MR	5.2	1.5	3.3	1.5-5.2	MR
9	LMH 514	3.8	S	4.0	MS	7.7	1.8	4.8	1.8-7.7	MR
10	HKH 347	2.8	MS	4.0	MS	7.5	1.9	4.7	1.9-7.5	MR
11	CMH 12-697	2.3	MS	4.0	MS	5.2	1.5	3.3	1.5-5.2	MR
12	HKH 346	2.8	MS	4.0	MS	5.6	1.4	3.5	1.4-5.6	MR
13	GYH-0656	3.0	MS	4.0	MS	7.5	2.2	4.9	2.2-7.5	MR
14	KMH 12-18	3.0	MS	4.5	S	7.0	1.9	4.4	1.9-7.0	MR
15	AH-1321	3.5	S	4.5	S	6.5	2.0	4.2	2.0-6.5	MR
16	CMH 10-527	2.3	MS	5.0	S	4.7	1.3	3.0	1.3-4.7	R
17	AH 9001	3.0	MS	5.0	S	8.2	1.8	5.0	1.8-8.2	MR
18	DH 286	3.5	S	5.0	S	5.1	1.6	3.3	1.6-5.1	MR
19	BH 412071	2.5	MS	4.0	MS	5.7	1.5	3.6	1.5-5.7	MR
20	JKMH 4025	2.3	MS	3.5	MS	6.0	1.7	3.9	1.7-6.0	MR
21	PM 14109E	3.5	S	5.0	S	7.8	3.9	5.8	3.9-7.8	MS
22	DH 290	3.3	S	5.0	S	5.5	3.3	4.4	3.3-5.5	MR
23	CMH12-691	2.5	MS	3.0	MR	5.0	1.5	3.2	1.5-5.0	MR
24	AH 7002	3.0	MS	3.5	MS	5.3	1.4	3.3	1.4-5.3	MR
25	AH-1318	3.5	S	4.5	S	7.6	4.7	6.2	4.7-7.6	MS

Contd.

S.No	Genotype	P.RUST (1-5)		C.RUST (1-5)		C.ROT (1-9)		Av. Score	Range	Reaction
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE			
26	AH-1320	3.0	MS	4.0	MS	6.6	1.6	4.1	1.6-6.6	MR
27	DAS-MH-502	3.3	S	4.0	MS	4.8	1.4	3.1	1.4-4.8	MR
28	AH 5021	3.3	S	5.0	S	6.7	2.5	4.6	2.5-6.7	MR
29	DMRE 1403	3.5	S	4.5	S	8.7	2.6	5.6	2.6-8.7	MS
30	FH 3695	2.3	MS	3.0	MR	7.2	1.6	4.4	1.6-7.2	MR
31	DH 283	3.8	S	3.0	MR	8.2	3.3	5.7	3.3-8.2	MS
32	KDMH 100-1	2.8	MS	3.5	MS	5.0	1.6	3.3	1.6-5.0	MR
33	AH-1319	3.3	S	4.0	MS	5.7	1.5	3.6	1.5-5.7	MR
34	CMH10-552	2.3	MS	4.0	MS	4.8	1.6	3.2	1.6-4.8	MR
35	KMH 12-8	2.8	MS	4.0	MS	6.5	1.8	4.1	1.8-6.5	MR
36	OMH 11-1	3.3	S	4.5	S	6.9	2.5	4.7	2.5-6.9	MR
37	AH 7001	3.0	MS	4.0	MS	7.0	1.6	4.3	1.6-7.0	MR
38	K-26	3.5	S	4.0	MS	7.1	1.3	4.2	1.3-7.1	MR
39	SAMH-221	3.0	MS	5.0	S	5.8	4.3	5.0	4.3-5.8	MR
40	GYH-0461	3.3	S	4.0	MS	3.7	1.5	2.6	1.5-3.7	R
41	GWH-0330	3.5	S	5.0	S	7.7	3.5	5.6	3.5-7.7	MS
42	BH 412055	2.8	MS	4.0	MS	5.3	1.5	3.4	1.5-5.3	MR
43	EH-2244	3.5	S	4.5	S	6.3	3.1	4.7	3.1-6.3	MR
44	GWH-0503	3.8	S	5.0	S	6.6	4.6	5.6	4.6-6.6	MS
45	PM 14110E	3.5	S	4.0	MS	5.4	1.7	3.6	1.7-5.4	MR
46	FH 3703	2.8	MS	5.0	S	7.9	2.4	5.1	2.4-7.9	MS
47	Shalimaar Maize Com 6	2.8	MS	3.0	MR	7.2	2.0	4.6	2.0-7.2	MR
48	Shalimaar Maize Com 7	3.5	S	4.0	MS	5.7	1.6	3.6	1.6-5.7	MR
49	Shalimaar Maize Com 5	3.5	S	3.0	MR	5.4	3.8	4.6	3.8-5.4	MR
50	Shalimaar Maize Hybrid 2	3.5	S	3.0	MR	5.4	3.2	4.3	3.2-5.4	MR
51	Prakash (C)	3.5	S	5.0	MS	4.9	1.4	3.2	1.4-4.9	MR

Contd.

S.No	Genotype	P.RUST (1-5)		C.RUST (1-5)		C.ROT (1-9)		Av. Score	Range	Reaction
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE			
52	RES. CHECK	2.3	MS	-	-	-	2.5	2.5	2.5	MS
53	SUS. CHECK	4.3	HS	-	-	7.8	5.1	6.5	5.1-7.8	MS

Resistant Check : P. RUST:- NITHYASHREE (MANDYA); C. ROT:- JCY 2-7 (HYDEERABAD)

**Susceptible Check : P. RUST :-219J (MANDYA); C.RUST:- CM 202 (ARBHAVI) C. ROT:- CM 600 (LUDHIANA);
BML 6 (HYDERABAD)**

Contd.

S.No	Genotype	FSR (1-9)		SDM (%)			RDM (%)	
		UDP	Reaction	MAND	COIM*	Reaction	UDP	Reaction
1	CMH 12-675	2.9	R	100.0	0.0	S	0.0	R
2	FH 3704	3.0	R	100.0	5.0	S	19.0	MR
3	EH-2371	4.5	MR	100.0	15.0	S	0.0	R
4	KF-95	4.1	MR	100.0	55.0	S	60.0	S
5	KMH 12-9	4.1	MR	100.0	0.0	S	0.0	R
6	LMH 614	2.5	R	100.0	20.0	S	28.0	MS
7	BH 412093	2.7	R	100.0	15.0	S	0.0	R
8	HKH 345	3.1	MR	100.0	0.0	S	18.0	MR
9	LMH 514	3.6	MR	100.0	15.0	S	24.0	MR
10	HKH 347	1.7	R	100.0	0.0	S	17.0	MR
11	CMH 12-697	4.1	MR	97.0	5.0	S	14.0	MR
12	HKH 346	2.5	R	100.0	15.0	S	32.0	MS
13	GYH-0656	2.3	R	98.8	22.5	S	21.0	MR
14	KMH 12-18	2.9	R	100.0	15.0	S	0.0	R
15	AH-1321	2.6	R	100.0	15.0	S	0.0	R
16	CMH 10-527	2.9	R	100.0	0.0	S	0.0	R
17	AH 9001	4.3	MR	100.0	22.5	S	13.0	MR
18	DH 286	3.4	MR	100.0	5.0	S	13.0	MR
19	BH 412071	3.6	MR	100.0	0.0	S	0.0	R
20	JKMH 4025	2.5	R	81.8	0.0	S	11.0	MR
21	PM 14109E	2.7	R	100.0	7.5	S	28.0	MS
22	DH 290	2.9	R	100.0	25.0	S	27.0	MS
23	CMH12-691	4.1	MR	100.0	17.5	S	11.0	MR
24	AH 7002	3.6	MR	100.0	17.5	S	20.0	MR
25	AH-1318	2.9	R	100.0	2.5	S	15.0	MR

Contd.

S.No	Genotype	FSR (1-9)		SDM (%)			RDM (%)	
		UDP	Reaction	MAND	COIM*	Reaction	UDAI	Reaction
26	AH-1320	2.4	R	100.0	0.0	S	14.0	MR
27	DAS-MH-502	3.1	MR	100.0	10.0	S	25.0	MR
28	AH 5021	1.4	R	100.0	10.0	S	0.0	R
29	DMRE 1403	4.5	MR	100.0	0.0	S	42.0	MS
30	FH 3695	2.0	R	100.0	0.0	S	0.0	R
31	DH 283	6.7	MS	100.0	2.5	S	31.0	MS
32	KDMH 100-1	3.8	MR	100.0	10.0	S	0.0	R
33	AH-1319	2.2	R	100.0	7.5	S	40.0	MS
34	CMH10-552	2.3	R	100.0	0.0	S	20.0	MR
35	KMH 12-8	2.4	R	100.0	5.0	S	29.0	MS
36	OMH 11-1	2.8	R	100.0	15.0	S	15.0	MR
37	AH 7001	2.2	R	100.0	10.0	S	25.0	MR
38	K-26	2.0	R	100.0	0.0	S	33.0	MS
39	SAMH-221	2.3	R	100.0	35.0	S	0.0	R
40	GYH-0461	3.8	MR	100.0	5.0	S	33.0	MS
41	GWH-0330	3.0	R	100.0	15.0	S	13.0	MR
42	BH 412055	1.9	R	100.0	25.0	S	0.0	R
43	EH-2244	1.6	R	100.0	0.0	S	25.0	MR
44	GWH-0503	2.6	R	100.0	20.0	S	35.0	MS
45	PM 14110E	2.0	R	100.0	0.0	S	73.0	S
46	FH 3703	1.3	R	100.0	0.0	S	33.0	MS
47	Shalimaar Maize Com 6	2.9	R	100.0	5.0	S	27.0	MS
48	Shalimaar Maize Com 7	3.0	R	100.0	37.5	S	23.0	MR
49	Shalimaar Maize Com 5	3.5	MR	100.0	7.5	S	90.0	S
50	Shalimaar Maize Hybrid 2	1.4	R	100.0	25.0	S	23.0	MR
51	Prakash (C)	1.7	R	100.0	7.5	S	75.0	S

Contd.

S.No	Genotype	FSR (1-9)		SDM (%)			RDM (%)	
		UDP	Reaction	MAND	COIM*	Reaction	UDAI	Reaction
52	RES. CHECK	-	-	0.0	0.0	R	-	-
53	SUS. CHECK	8.4	S	100.0	40.0	S	100.0	S

Resistant Check : SDM:- NAH 1137 (MANDYA); CoH6 (COIMBATORE)

**Susceptible Check : FSR:- SURYA (UDAIPUR); SDM:- CM 500 (MANDYA); CM 500 (COIMBATORE)
RDM ; SURYA (UDAIPUR)**

* Data not considered due to low disease pressure

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
1	CMH 12-675	88.7	54.5	71.6	54.5-88.7	S
2	FH 3704	95.5	23.1	59.3	23.1-95.5	S
3	EH-2371	50.0	18.0	34.0	18.0-50.0	MS
4	KF-95	60.0	27.3	43.7	27.3-60.0	MS
5	KMH 12-9	81.0	45.5	63.2	45.5-81.0	S
6	LMH 614	51.7	54.4	53.0	51.7-54.4	S
7	BH 412093	26.9	36.4	31.7	26.9-36.4	MS
8	HKH 345	70.6	54.5	62.6	54.5-70.6	S
9	LMH 514	42.2	54.5	48.4	42.2-54.5	MS
10	HKH 347	55.0	54.5	54.8	54.5-55.0	S
11	CMH 12-697	13.9	0.0	7.0	0.0-13.9	R
12	HKH 346	14.7	9.1	11.9	9.1-14.7	MR
13	GYH-0656	72.8	63.6	68.2	63.6-72.8	S
14	KMH 12-18	70.8	27.2	49.0	27.2-70.8	MS
15	AH-1321	68.6	0.0	34.3	0.0-68.6	MS
16	CMH 10-527	0.0	36.4	18.2	0.0-36.4	MR
17	AH 9001	87.8	45.5	66.7	45.5-87.8	S
18	DH 286	60.0	27.3	43.7	27.3-60.0	MS
19	BH 412071	41.1	54.5	47.8	41.1-54.5	MS
20	JKMH 4025	58.3	36.4	47.4	36.4-58.3	MS
21	PM 14109E	80.4	18.2	49.3	18.2-80.4	MS
22	DH 290	79.7	36.4	58.0	36.4-79.7	S
23	CMH12-691	29.2	27.3	28.2	27.3-29.2	MS
24	AH 7002	38.8	36.4	37.6	36.4-38.8	MS
25	AH-1318	31.3	36.4	33.8	3.3-36.4	MS

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
26	AH-1320	66.3	36.4	51.3	36.4-66.3	S
27	DAS-MH-502	65.5	54.5	60.0	54.5-65.5	S
28	AH 5021	25.7	9.1	17.4	9.1-25.7	MR
29	DMRE 1403	82.9	45.5	64.2	45.5-82.9	S
30	FH 3695	41.7	36.4	39.0	36.4-41.7	MS
31	DH 283	85.8	63.6	74.7	63.6-85.8	S
32	KDMH 100-1	55.9	27.3	41.6	27.3-55.9	MS
33	AH-1319	80.8	9.1	45.0	9.1-80.8	MS
34	CMH10-552	24.1	27.3	25.7	24.1-27.3	MS
35	KMH 12-8	25.0	45.2	35.1	25.0-45.2	MS
36	OMH 11-1	76.0	63.6	69.8	63.6-76.0	S
37	AH 7001	54.2	63.6	58.9	54.2-63.6	S
38	K-26	48.9	25.1	37.0	25.1-48.9	MS
39	SAMH-221	44.2	33.2	38.7	33.2-44.2	MS
40	GYH-0461	20.0	36.4	28.2	20.0-36.4	MS
41	GWH-0330	76.0	63.6	69.8	63.6-76.0	S
42	BH 412055	85.0	0.0	42.5	0.0-85.0	MS
43	EH-2244	63.9	0.0	31.9	0.0-63.9	MS
44	GWH-0503	71.8	27.3	49.5	27.3-71.8	MS
45	PM 14110E	76.7	45.5	61.1	45.5-76.7	S
46	FH 3703	81.3	27.3	54.3	27.3-81.3	S
47	Shalimaar Maize Com 6	78.8	27.3	53.0	27.3-78.8	S
48	Shalimaar Maize Com 7	61.3	27.3	44.3	27.3-61.3	MS
49	Shalimaar Maize Com 5	80.0	9.1	44.6	9.1-80.0	MS
50	Shalimaar Maize Hybrid 2	36.5	27.3	31.9	27.3-36.5	MS
51	Prakash (C)	77.1	27.3	52.2	27.3-77.1	S

Contd.

S.No	Genotype	Bacterial stalk rot score (%)			Range	Reaction
		PANT	DHAU	Av. Score		
52	SUS. CHECK	66.7	54.2	60.4	66.7	S

Susceptible Check :BSR:- CM600 (PANTNAGAR) DKC 7074 (DHAULAKUAN)

Contd.

S.No	Genotype	CLS (1-5)				Cyst/ plant (n=5)		
		UDP	DHU	Av. Score	Range	Reaction	UDP	Reaction
1	CMH 12-675	3.0	1.5	2.3	1.5-3.0	MR	15--21	S
2	FH 3704	1.5	2.0	1.8	1.5-2.0	R	25--34	S
3	EH-2371	1.5	2.5	2.0	1.5-2.5	R	10--18	S
4	KF-95	4.0	2.0	3.0	2.0-4.0	MR	36--44	S
5	KMH 12-9	3.0	2.5	2.8	2.5-3.0	MR	25--32	S
6	LMH 614	1.5	2.0	1.8	1.5-2.0	R	12--20	S
7	BH 412093	1.5	3.0	2.3	1.5-3.0	MR	22--30	S
8	HKH 345	2.5	3.0	2.8	2.5-3.0	MR	27--34	S
9	LMH 514	1.5	3.0	2.3	1.5-3.0	MR	22--26	S
10	HKH 347	2.0	3.0	2.5	2.0-3.0	MR	10--13	S
11	CMH 12-697	2.0	2.0	2.0	2.0-2.0	R	3--9	MR
12	HKH 346	3.5	1.3	2.4	1.3-3.5	MR	11--16	S
13	GYH-0656	2.0	2.0	2.0	2.0-2.0	R	20--23	S
14	KMH 12-18	1.0	3.0	2.0	1.0-3.0	R	5--10	S
15	AH-1321	1.0	2.0	1.5	1.0-2.0	R	11--18	S
16	CMH 10-527	1.5	1.5	1.5	1.5-1.5	R	7--12	S
17	AH 9001	1.5	2.0	1.8	1.5-2.0	R	30--37	S
18	DH 286	1.5	2.0	1.8	1.5-2.0	R	14--22	S
19	BH 412071	1.5	2.0	1.8	1.5-2.0	R	11--18	S
20	JKMh 4025	1.5	2.0	1.8	1.5-2.0	R	8--13	S
21	PM 14109E	1.5	2.0	1.8	1.5-2.0	R	31--40	S
22	DH 290	1.0	2.0	1.5	1.0-2.0	R	25--32	S
23	CMH12-691	2.0	2.0	2.0	2.0-2.0	R	4--8	MR
24	AH 7002	1.5	3.0	2.3	1.5-3.0	MR	30--36	S
25	AH-1318	1.0	3.0	2.0	1.0-3.0	R	14--21	S

Contd.

S.No	Genotype	CLS (1-5)				Cyst/ plant (n=5)		
		UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
26	AH-1320	2.0	3.0	2.5	2.0-3.0	MR	2--9	MR
27	DAS-MH-502	1.0	1.3	1.1	1.0-1.3	R	20--29	S
28	AH 5021	1.5	3.0	2.3	1.5-3.0	MR	17--22	S
29	DMRE 1403	2.5	1.3	1.9	1.3-2.5	R	35--48	S
30	FH 3695	2.0	1.3	1.6	1.3-2.0	R	20--24	S
31	DH 283	1.5	2.0	1.8	1.5-2.0	R	33--43	S
32	KDMH 100-1	1.0	2.0	1.5	1.0-2.0	R	20--30	S
33	AH-1319	1.5	2.0	1.8	1.5-2.0	R	9--15	S
34	CMH10-552	2.0	2.0	2.0	2.0-2.0	R	6--12	S
35	KMH 12-8	2.0	2.0	2.0	2.0-2.0	R	14--23	S
36	OMH 11-1	2.0	2.0	2.0	2.0-2.0	R	20--28	S
37	AH 7001	2.5	1.3	1.9	1.3-2.5	R	17--24	S
38	K-26	1.0	3.0	2.0	1.0-3.0	R	6--13	S
39	SAMH-221	1.5	3.0	2.3	1.5-3.0	MR	8--15	S
40	GYH-0461	2.0	2.5	2.3	2.0-2.5	MR	10--18	S
41	GWH-0330	1.0	2.0	1.5	1.0-2.0	R	23--32	S
42	BH 412055	2.0	2.0	2.0	2.0-2.0	R	30--38	S
43	EH-2244	1.5	2.0	1.8	1.5-2.0	R	11--18	S
44	GWH-0503	1.5	3.0	2.3	1.5-3.0	MR	10--16	S
45	PM 14110E	2.0	1.3	1.6	1.3-2.0	R	31--36	S
46	FH 3703	1.5	3.0	2.3	1.5-3.0	MR	11--20	S
47	Shalimaar Maize Com 6	2.5	2.0	2.3	2.0-2.5	MR	20--27	S
48	Shalimaar Maize Com 7	1.0	2.0	1.5	1.0-2.0	R	27--35	S
49	Shalimaar Maize Com 5	1.5	2.0	1.8	1.5-2.0	R	33--43	S
50	Shalimaar Maize Hybrid 2	1.5	2.0	1.8	1.5-2.0	R	37--46	S
51	Prakash (C)	2.5	3.0	2.8	2.5-3.0	MR	29--37	S

Contd.

S.No	Genotype	CLS (1-5)				Cyst/ plant (n=5)		
		UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
52	RES. CHECK	4.5	3.0	3.8	3.0-4.5	MS	26--35	S

Susceptible Check :CLS:-SURYA (UDAIPUR); DKC 7074 (DHAULAKUAN);
CYST NEMATODE:- PEEHM-5 (UDAIPUR)

Table 4. Disease screening of IVT (extra early maturity) maize hybrids (Trial 64)

S.No	Genotype	Maydis leaf blight score (1-5)					Av. Score	Range	Reaction
		DHOL	KARN	LUDH	DHAU	DELH			
1	EH-2236	2.5	2.1	4.0	3.0	2.0	2.7	2.0-4.0	MR
2	EH-2234	3.5	3.2	4.3	4.0	2.0	3.4	2.0-4.3	MS
3	DH 289	3.0	2.2	2.8	4.0	2.0	2.8	2.0-4.0	MR
4	AH-1316	3.0	2.4	3.8	3.0	2.5	2.9	2.4-3.8	MR
5	DH 288	4.0	2.3	3.8	3.0	3.0	3.2	2.3-4.0	MS
6	DH 277	4.0	2.3	2.8	3.0	2.5	2.9	2.3-4.0	MR
7	APH 27	3.5	2.2	2.3	3.0	2.5	2.7	2.2-3.5	MR
8	DH 287	2.5	2.3	3.8	1.3	2.5	2.5	1.3-3.8	MR
9	FH 3706	3.5	2.9	4.5	4.0	2.5	3.5	2.5-4.5	MS
10	DH 285	3.0	2.5	4.5	3.0	2.5	3.1	2.5-4.5	MS
11	AH-1317	2.0	1.9	2.5	4.0	2.5	2.6	1.9-4.0	MR
12	Vivek Hybrid-21 (C)	4.0	2.6	3.8	3.0	2.0	3.1	2.0-4.0	MS
13	Vivek Hybrid-43(C)	4.0	1.7	2.0	1.3	2.0	2.2	1.3-4.0	MR
14	RES. CHECK	-	1.0	-	-	-	1.0	1.0-1.0	R
15	SUS. CHECK	4.5	3.8	4.5	2.0	4.0	3.8	2.0-4.5	MS

Resistant Check : MLB:- HQPM 1 (KARNAL)

**Susceptible Check : MLB:- CML 186 (DHOLI); HKI 1105 + HKI 536CBT (KARNAL); CM 600 (LUDHIANA)
DKC 7074 (DHAULAKUAN); CM 600 (DELHI)**

Contd.

Turcicum leaf blight score (1-5)								
S.No	Genotype	BAJA	ALMO	MAND	ARBH	Av. Score	Range	Reaction
1	EH-2236	3.3	2.5	2.5	5.0	3.3	2.5-5.0	MS
2	EH-2234	4.0	3.5	3.5	5.0	4.0	3.5-5.0	MS
3	DH 289	4.0	3.0	3.5	5.0	3.9	3.0-5.0	MS
4	AH-1316	4.0	3.5	3.0	5.0	3.9	3.0-5.0	MS
5	DH 288	3.3	3.5	2.8	5.0	3.6	2.8-5.0	MS
6	DH 277	3.5	3.5	2.8	5.0	3.7	2.8-5.0	MS
7	APH 27	2.3	2.5	2.8	4.0	2.9	2.3-4.0	MR
8	DH 287	3.5	2.0	4.0	5.0	3.6	2.0-5.0	MS
9	FH 3706	4.3	2.5	3.0	5.0	3.7	2.5-5.0	MS
10	DH 285	4.3	2.5	3.0	5.0	3.7	2.5-5.0	MS
11	AH-1317	1.8	2.0	3.3	4.0	2.8	1.8-4.0	MR
12	Vivek Hybrid-21 (C)	4.3	3.0	3.3	5.0	3.9	3.0-5.0	MS
13	Vivek Hybrid-43(C)	2.0	2.0	3.0	5.0	3.0	2.0-5.0	MR
14	RES. CHECK	-	1.5	2.3	-	1.9	1.5-2.3	R
15	SUS. CHECK	4.5	4.5	3.8	-	4.3	3.8-4.5	S
16	SUS. CHECK - Local	4.8	-	-	-	4.8	4.8-4.8	S

Resistant Check : TLB:- V373 (ALMORA); NITHYASHREE (MANDYA)

Susceptible Check : TLB:- CM 202 (BAJAURA); DHYARI LOCAL (ALMORA); 219J (MANDYA) CM202 (ARBHAVI)

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MEDI	PANT	DHAU	DELH	BHUB	KARN	Av. Score	Range	Reaction
1	EH-2236	5.0	4.0	4.0	3.0	3.3	2.2	3.6	2.2-5.0	MS
2	EH-2234	5.0	4.8	4.0	3.0	2.5	2.1	3.6	2.1-5.0	MS
3	DH 289	5.0	4.8	3.5	3.5	3.3	2.2	3.7	2.2-5.0	MS
4	AH-1316	5.0	4.3	4.0	3.0	3.0	2.0	3.5	2.0-5.0	MS
5	DH 288	5.0	4.8	3.5	3.0	2.5	2.3	3.5	2.3-5.0	MS
6	DH 277	4.4	4.8	3.5	3.5	2.5	3.4	3.7	2.5-4.8	MS
7	APH 27	5.0	4.8	3.0	3.5	3.0	2.5	3.6	2.5-5.0	MS
8	DH 287	5.0	4.8	3.5	4.0	3.0	2.2	3.7	2.2-5.0	MS
9	FH 3706	4.2	5.0	4.0	4.0	3.5	3.0	4.0	3.0-5.0	MS
10	DH 285	3.8	4.8	4.0	4.0	2.5	2.0	3.5	2.0-4.8	MS
11	AH-1317	4.0	4.5	3.0	3.5	3.0	2.9	3.5	2.9-4.5	MS
12	Vivek Hybrid-21 (C)	4.4	4.0	3.5	4.0	2.5	4.4	3.8	2.5-4.4	MS
13	Vivek Hybrid-43(C)	5.0	3.8	3.5	3.5	3.8	4.0	3.9	3.5-5.0	MS
14	RES. CHECK	-	-	-	-	-	1.9	1.9	1.9-1.9	R
15	SUS. CHECK	-	4.5	3.5	4.0	4.0	4.4	4.1	3.5-4.5	S

Resistant Check : BLSB:- HQPM 1 (KARNNAL)

**Susceptible Check : BLSB:- AMAR (PANTNAGAR); CML 186 (DHAULAKUAN); CM501 (DELHI);
NK 30 (BHUBBNESWAR); HKI 1105+ HKI 536CBT (KARNAL)**

Contd.

S.No	Genotype	P.RUST (1-5)		C.RUST (1-5)		C.ROT (1-9)		Av. Score	Range	Reaction
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE			
1	EH-2236	2.8	MS	4.5	HS	8.1	2.5	5.3	2.5-8.1	MS
2	EH-2234	3.3	S	4.0	S	6.7	2.7	4.7	2.7-6.7	MR
3	DH 289	3.5	S	5.0	HS	6.2	1.7	4.0	1.7-6.2	MR
4	AH-1316	2.8	MS	4.0	S	7.8	3.6	5.7	3.6-7.8	MS
5	DH 288	3.0	MS	4.0	S	7.6	1.7	4.6	1.7-7.6	MR
6	DH 277	3.3	S	4.5	S	7.9	1.8	4.9	1.8-7.9	MR
7	APH 27	3.0	MS	-	-	8.0	1.6	4.8	1.6-8.0	MR
8	DH 287	3.3	S	4.0	S	5.1	2.1	3.6	2.1-5.1	MR
9	FH 3706	3.3	S	5.0	HS	7.9	2.0	4.9	2.0-7.9	MR
10	DH 285	3.3	S	4.0	S	8.2	4.5	6.3	4.5-8.2	MS
11	AH-1317	3.0	MS	3.0	MS	5.0	1.5	3.3	1.5-5.0	MR
12	Vivek Hybrid-21 (C)	3.0	MS	4.0	S	5.6	1.8	3.7	1.8-5.6	MR
13	Vivek Hybrid-43(C)	4.5	HS	4.5	HS	6.9	1.8	4.3	1.8-6.9	MR
14	RES. CHECK	2.3	MS	-	-	-	2.1	2.1	2.1	R
15	SUS. CHECK	3.8	S	-	-	7.6	5.2	6.4	5.2-7.6	MS

Resistant Check : P. RUST:- NITHYASHREE (MANDYA); C. ROT:- JCY 2-7 (HYDERABAD)

**Susceptible Check : P. RUST :-219J (MANDYA); C.RUST:- CM 202 (ARBHAVI); C. ROT:- CM 600 (LUDHIANA);
BML 6 (HYDERABAD)**

Contd.

S.No	Genotype	FSR (1-9)		SDM (%)		RDM (%)		
		UDAI	Reaction	MAND	COIM*	Reaction	UDAI	Reaction
1	EH-2236	1.9	R	100.0	0.0	S	38.0	MS
2	EH-2234	2.1	R	100.0	5.0	S	50.0	MS
3	DH 289	1.8	R	100.0	25.0	S	24.0	MR
4	AH-1316	2.9	R	100.0	12.5	S	29.0	MS
5	DH 288	2.1	R	100.0	5.0	S	20.0	MR
6	DH 277	2.9	R	100.0	10.0	S	25.0	MR
7	APH 27	1.7	R	100.0	0.0	S	12.0	MR
8	DH 287	2.7	R	100.0	0.0	S	6.0	R
9	FH 3706	3.0	R	100.0	7.5	S	79.0	S
10	DH 285	5.0	MR	100.0	2.5	S	14.0	MR
11	AH-1317	2.2	R	100.0	7.5	S	18.0	MR
12	Vivek Hybrid-21 (C)	2.5	R	100.0	12.5	S	80.0	S
13	Vivek Hybrid-43(C)	2.7	R	100.0	0.0	S	0.0	R
14	RES. CHECK	-	-	0.0	0.0	R	-	-
15	SUS. CHECK	8.6	S	100.0	30.0	S	100.0	S

Resistant Check : SDM:- NAH 1137 (MANDYA); CoH6 (COIMBATORE)

**Susceptible Check : FSR:- SURYA (UDAIPUR); SDM:- CM 500 (MANDYA); CM 500 (COIMBATORE)
RDM ; SURYA (UDAIPUR)**

* Data not considered due to low disease pressure

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
1	EH-2236	58.6	23.5	41.0	23.5-58.6	MS
2	EH-2234	75.6	33.3	54.4	33.3-75.6	S
3	DH 289	50.5	30.8	40.7	30.8-50.5	MS
4	AH-1316	47.8	12.5	30.2	12.5-47.8	MS
5	DH 288	55.0	28.2	41.6	28.2-55.0	MS
6	DH 277	52.5	20.0	36.3	20.0-52.5	MS
7	APH 27	50.5	7.1	28.8	7.1-50.5	MS
8	DH 287	43.7	8.3	26.0	8.3-43.7	MS
9	FH 3706	74.5	42.9	58.7	42.9-74.5	S
10	DH 285	92.6	14.3	53.4	14.3-92.6	S
11	AH-1317	59.8	0.0	29.9	0.0-59.8	MS
12	Vivek Hybrid-21 (C)	55.3	16.7	36.0	16.7-55.3	MS
13	Vivek Hybrid-43(C)	69.6	38.9	54.3	38-9-69.6	S
14	RES. CHECK	66.7	14.3	40.5	14.3-66.7	MS

Susceptible Check :BSR:- CM600 (PANTNAGAR); DKC 7074 (DHAULAKUAN)

Contd.

CLS (1-5)							Cyst/ plant (n = 5)	
S.No	Genotype	UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
1	EH-2236	1.0	2.0	1.5	1.0-2.0	R	10--17	S
2	EH-2234	1.5	3.0	2.3	1.5-3.0	MR	17--25	S
3	DH 289	2.5	2.0	2.3	2.0-2.5	MR	30--38	S
4	AH-1316	2.5	3.0	2.8	2.5-3.0	MR	32--41	S
5	DH 288	2.0	3.0	2.5	2.0-3.0	MR	15--22	S
6	DH 277	1.5	3.0	2.3	1.5-3.0	MR	20--26	S
7	APH 27	1.5	3.0	2.3	1.5-3.0	MR	14--23	S
8	DH 287	2.0	3.0	2.5	2.0-3.0	MR	12--20	S
9	FH 3706	3.0	3.0	3.0	3.0-3.0	MR	27--33	S
10	DH 285	2.5	2.5	2.5	2.5-2.5	MR	30--37	S
11	AH-1317	1.0	3.0	2.0	1.0-3.0	R	10--15	S
12	Vivek Hybrid-21 (C)	1.5	4.0	2.8	1.5-4.0	MR	28--36	S
13	Vivek Hybrid-43(C)	0.5	1.3	0.9	0.5-1.3	R	32--42	S
14	RES. CHECK	4.0	2.0	3.0	2.0-4.0	MR	30--37	S

Susceptible Check :CLS:-SURYA (UDAIPUR); DKC 7074 (DHAULAKUAN);
CYST NEMATODE:- PEEHM-5 (UDAIPUR)

Table 5. Disease screening of AVT I & II (late maturity) maize hybrids (Trial 75)

S.No	Genotype	Maydis leaf blight score (1-5)					Av. Score	Range	Reaction
		DHOL	KARN	LUDH	DHAU	DELH			
AVT-I (Late)									
1	VNR 31834	3.0	2.8	2.3	3.0	2.0	2.6	2.0-3.0	MR
2	X 35D601	2.0	1.8	2.8	4.0	2.0	2.5	1.8-4.0	MR
3	DKC 9133(IM9133)	2.0	2.6	2.3	3.0	2.0	2.4	2.0-3.0	MR
4	DKC 9141 (IM8539)	1.5	2.0	2.5	3.0	1.5	2.1	1.5-3.0	MR
5	HTMH 5108	1.5	2.7	2.3	3.0	2.0	2.3	1.5-3.0	MR
6	HTMH 5202	3.0	2.1	3.3	3.0	2.0	2.7	2.0-3.3	MR
7	HTMH 5404	1.5	2.2	2.3	3.0	2.0	2.2	1.5-3.0	MR
8	KMH-2811	2.0	2.5	3.8	3.0	2.0	2.7	2.0-3.8	MR
9	RMH-972	2.0	2.5	1.8	2.0	2.5	2.2	1.8-2.5	MR
10	SUPER GA-105	1.0	2.8	3.3	3.0	2.0	2.4	1.0-3.3	MR
11	VNR 31355	2.0	2.9	2.3	2.0	2.0	2.2	2.0-2.9	MR
12	Siri 4527	1.5	1.7	1.8	2.0	2.0	1.8	1.5-2.0	R
13	JH 12247	1.0	3.1	2.3	2.0	2.0	2.0	1.0-3.1	R
14	Bio 032 (BB032)	1.0	2.9	1.8	3.0	2.0	2.1	1.0-3.0	MR
15	IM 8562	2.0	2.6	2.8	3.0	2.0	2.5	2.0-3.0	MR
16	CP. 999	1.0	2.8	2.0	2.0	2.0	2.0	1.0-2.8	R
17	DAS-MH-105	1.0	2.0	1.5	1.0	2.0	1.5	1.0-2.0	R
18	IM 8556	1.5	2.4	2.0	2.5	2.0	2.0	1.5-2.5	R
19	JANAHIT	1.5	2.4	2.5	2.0	2.0	2.0	1.5-2.5	R
20	PRO-392	1.5	2.0	3.0	2.0	1.5	2.0	1.5-3.0	R
AVT-II Late									
21	LTH-22	2.5	2.5	3.5	3.0	2.5	2.8	2.5-3.5	MR
22	NMH-1265	1.0	2.7	2.3	1.3	1.5	1.7	1.0-2.7	R
23	Geo Primum Diamond	1.0	2.0	1.8	1.3	2.0	1.6	1.0-2.0	R

Contd.

Maydis leaf blight score (1-5)									
S.No	Genotype	DHOL	KARN	LUDH	DHAU	DELH	Av. Score	Range	Reaction
24	PMH 1-C	1.0	2.2	2.0	1.3	2.0	1.7	1.0-2.2	R
25	PMH 3-C	1.0	3.0	2.3	1.3	2.5	2.0	1.0-2.5	R
26	Bio -9681-C	2.0	3.6	2.5	3.0	2.5	2.7	2.0-3.6	MR
27	Seedtech 2324	2.5	2.2	3.8	3.0	2.0	2.7	2.0-3.8	MR
28	RES. CHECK	-	1.2	-	-	-	1.2	1.2-5.0	R
29	SUS. CHECK	4.0	4.0	4.5	1.3	5.0	3.8	1.3-5.0	MS

Resistant Check : MLB:- HQPM 1 (KARNAL)

**Susceptible Check : MLB:- CML 186 (DHOLI); HKI 1105 + HKI 536CBT (KARNAL); CM 600 (LUDHIANA)
DKC 7074 (DHAULAKUAN); CM 600 (DELHI)**

Contd.

Turicum leaf blight score (1-5)								
S.No	Genotype	BAJA	ALMO	MAND	ARBH	Av. Score	Range	Reaction
AVT-I (Late)								
1	VNR 31834	2.3	1.5	2.3	3.5	2.4	1.5-3.5	MR
2	X 35D601	2.0	2.5	2.8	3.0	2.6	2.0-3.0	MR
3	DKC 9133(IM9133)	1.5	2.0	2.3	3.5	2.3	1.5-3.5	MR
4	DKC 9141 (IM8539)	2.5	2.0	2.3	3.5	2.6	2.0-3.5	MR
5	HTMH 5108	1.8	2.0	2.5	3.5	2.4	1.8-3.5	MR
6	HTMH 5202	2.5	1.5	3.0	3.5	2.6	1.5-3.5	MR
7	HTMH 5404	2.0	1.5	2.8	3.5	2.5	1.5-3.5	MR
8	KMH-2811	2.0	2.5	2.8	3.5	2.7	2.0-3.5	MR
9	RMH-972	1.8	2.0	2.8	3.0	2.4	1.8-3.0	MR
10	SUPER GA-105	2.0	1.5	2.5	3.0	2.3	1.5-3.0	MR
11	VNR 31355	2.5	3.0	2.3	3.5	2.8	2.3-3.5	MR
12	Siri 4527	1.8	3.0	2.0	3.5	2.6	1.8-3.5	MR
13	JH 12247	2.5	2.0	3.5	3.5	2.9	2.0-3.5	MR
14	Bio 032 (BB032)	2.0	2.5	3.0	4.0	2.9	2.0-4.0	MR
15	IM 8562	2.5	2.0	2.5	3.5	2.6	2.0-3.5	MR
16	CP. 999	1.8	2.0	2.3	3.0	2.3	1.8-3.0	MR
17	DAS-MH-105	2.5	2.0	2.3	3.0	2.5	2.0-3.0	MR
18	IM 8556	2.5	2.0	3.0	3.5	2.8	2.0-3.5	MR
19	JANAHIT	1.8	1.5	2.5	3.5	2.3	1.5-3.5	MR
20	PRO-392	2.0	2.0	2.8	3.0	2.5	2.0-3.0	MR
AVT-II Late								
21	LTH-22	1.5	1.5	2.5	3.0	2.1	1.5-3.0	MR
22	NMH-1265	1.8	3.0	3.0	3.5	2.8	1.8-3.5	MR
23	Geo Primium Diamond	2.0	2.0	2.0	3.0	2.3	2.0-3.0	MR

Contd.

Turcicum leaf blight score (1-5)								
S.No	Genotype	BAJA	ALMO	MAND	ARBH	Av. Score	Range	Reaction
24	PMH 1-C	1.8	2.0	2.3	3.0	2.3	1.8-3.0	MR
25	PMH 3-C	1.8	1.5	2.8	3.5	2.4	1.5-3.5	MR
26	Bio -9681-C	1.8	2.0	3.0	3.5	2.6	1.8-3.5	MR
27	Seedtech 2324	1.8	2.5	2.8	3.5	2.6	1.8-3.5	MR
28	RES. CHECK	-	1.5	1.8	-	1.7	1.5-1.8	R
29	SUS. CHECK	4.3	4.0	4.0	-	4.1	4.0-4.3	S
30	SUS. CHECK - Local	4.5	-	-	-	4.5	4.5	S

Resistant Check : TLB:- V373 (ALMORA); NITHYASHREE (MANDYA)

Susceptible Check : TLB:- CM 202 (BAJAURA); DHYARI LOCAL (ALMORA); 219J (MANDYA); CM 202 (ARBHAVI)

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MEDI	PANT	DHAU	DELH	BHUB	KARN	Av. Score	Range	Reaction
AVT-I (Late)										
1	VNR 31834	4.5	4.0	-	3.0	2.8	2.2	3.3	2.2-4.5	MS
2	X 35D601	3.8	4.3	4.0	3.0	3.3	2.1	3.4	2.1-4.3	MS
3	DKC 9133(IM9133)	4.0	4.3	4.0	3.0	2.0	3.2	3.4	2.0-4.3	MS
4	DKC 9141 (IM8539)	4.3	4.0	4.0	3.0	1.8	3.6	3.5	1.8-4.3	MS
5	HTMH 5108	4.6	4.3	3.0	3.5	2.3	1.7	3.2	1.7-4.6	MS
6	HTMH 5202	3.6	4.0	3.0	2.5	3.0	2.2	3.0	2.2-4.0	MR
7	HTMH 5404	4.9	4.3	4.0	3.5	3.0	2.1	3.6	2.1-4.9	MS
8	KMH-2811	4.4	4.0	3.0	3.0	2.8	1.8	3.2	1.8-4.4	MS
9	RMH-972	3.9	2.8	4.0	3.0	2.3	2.0	3.0	2.0-4.0	MR
10	SUPER GA-105	3.5	4.3	4.0	2.5	2.8	3.6	3.4	2.5-4.3	MS
11	VNR 31355	4.3	3.8	4.0	3.0	3.3	4.3	3.8	3.0-4.3	MS
12	Siri 4527	3.2	4.0	4.0	3.0	2.5	4.0	3.5	2.5-4.0	MS
13	JH 12247	4.4	3.8	4.0	3.0	3.0	2.4	3.4	2.4-4.4	MS
14	Bio 032 (BB032)	4.1	4.5	3.0	3.0	3.0	2.3	3.3	2.3-4.5	MS
15	IM 8562	3.5	4.0	4.0	2.0	3.0	2.0	3.0	2.0-4.0	MR
16	CP. 999	4.4	4.3	3.0	2.0	2.8	3.0	3.2	2.0-4.4	MS
17	DAS-MH-105	3.4	4.0	4.0	3.0	2.0	1.0	2.9	1.0-4.0	MR
18	IM 8556	3.6	3.8	3.0	3.0	2.3	3.3	3.2	2.3-3.8	MS
19	JANAHIT	3.9	3.5	3.0	2.0	2.0	2.5	2.8	2.0-3.9	MR
20	PRO-392	3.8	4.3	4.0	2.0	2.8	2.4	3.2	2.0-4.3	MS
AVT-II Late										
21	LTH-22	3.9	4.5	4.0	3.0	2.0	1.9	3.2	1.9-4.5	MS
22	NMH-1265	3.5	4.8	3.0	2.5	2.8	3.0	3.3	2.5-4.8	MS
23	Geo Primium Diamond	4.4	4.3	4.0	2.5	1.5	2.6	3.2	1.5-4.4	MS

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MEDI	PANT	DHAU	DELH	BHUB	KARN	Av. Score	Range	Reaction
24	PMH 1-C	4.7	3.8	3.0	2.5	2.8	3.0	3.3	2.5-4.7	MS
25	PMH 3-C	4.5	2.5	3.0	2.5	1.8	3.9	3.0	1.8-4.5	MR
26	Bio -9681-C	3.8	4.5	4.0	4.0	3.0	4.4	4.0	3.0-4.5	MS
27	Seedtech 2324	4.6	3.8	3.0	3.5	2.5	2.0	3.2	2.0-4.6	MS
28	RES. CHECK	-	-	-	-	-	1.9	1.9	1.9-1.9	R
29	SUS. CHECK	-	4.0	4.0	4.0	4.3	4.4	4.1	4.0-4.4	S

Resistant Check : BLSB:- HQPM 1 (KARNAL)

**Susceptible Check : BLSB:- AMAR (PANTNAGAR); CML 186 (DHAULAKUAN); CM501 (DELHI);
NK 30 (BHUBNESWAR); HKI 1105+ HKI 536CBT (KARNAL)**

Contd.

S.No	Genotype	P.RUST (1-5)		C.RUST (1-5)		C.ROT (1-9)		Av. Score	Range	Reaction
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE			
AVT-I (Late)										
1	VNR 31834	2.0	MR	4.0	S	4.9	1.5	3.2	1.5-4.9	MR
2	X 35D601	1.8	MR	2.5	MS	5.9	1.6	3.7	1.6-5.9	MR
3	DKC 9133(IM9133)	2.5	MS	3.0	MS	5.5	1.5	3.5	1.5-5.5	MR
4	DKC 9141 (IM8539)	2.0	MR	2.5	MS	6.2	1.6	3.9	1.6-6.2	MR
5	HTMH 5108	2.0	MR	2.5	MS	6.5	1.5	4.0	1.5-6.5	MR
6	HTMH 5202	2.8	MS	3.0	MS	8.4	1.5	5.0	1.5-8.4	MR
7	HTMH 5404	2.8	MS	-	-	4.6	1.4	3.0	1.4-4.6	R
8	KMH-2811	2.3	MS	2.5	MS	4.7	1.5	3.1	1.5-4.7	MR
9	RMH-972	3.0	MS	3.5	S	4.4	1.4	2.9	1.4-4.4	R
10	SUPER GA-105	2.3	MS	2.0	MR	6.6	1.4	4.0	1.4-6.6	MR
11	VNR 31355	1.8	MR	2.0	MR	3.7	2.5	3.1	2.5-3.7	MR
12	Siri 4527	1.8	MR	3.0	MS	5.7	1.6	3.6	1.6-5.7	MR
13	JH 12247	3.0	MS	3.5	S	5.3	2.3	3.8	2.3-5.3	MR
14	Bio 032 (BB032)	2.5	MS	3.0	MS	7.0	2.3	4.6	2.3-7.0	MR
15	IM 8562	4.0	S	3.0	MS	6.6	1.6	4.1	1.6-6.6	MR
16	CP. 999	2.3	MS	3.0	MS	3.7	1.5	2.6	1.5-3.7	R
17	DAS-MH-105	2.0	MR	2.5	MS	5.9	1.4	3.7	1.4-5.9	MR
18	IM 8556	1.8	MR	2.0	MR	5.5	1.5	3.5	1.5-5.5	MR
19	JANAHIT	1.8	MR	3.0	MS	7.8	4.4	6.1	4.4-7.8	MS
20	PRO-392	2.8	MS	2.0	MR	7.3	1.5	4.4	1.5-7.3	MR
AVT-II Late										
21	LTH-22	2.8	MS	3.0	MS	6.7	1.4	4.1	1.4-6.7	MR
22	NMH-1265	2.8	MS	3.0	MS	7.4	1.5	4.4	1.5-7.4	MR
23	Geo Primium Diamond	2.3	MS	-	-	5.6	1.9	3.7	1.9-5.6	MR

Contd.

S.No	Genotype	P.RUST (1-5)		C.RUST (1-5)		C.ROT (1-9)		Av. Score	Range	Reaction
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE			
24	PMH 1-C	3.0	MS	3.0	MS	4.7	1.2	2.9	1.2-4.7	R
25	PMH 3-C	2.5	MS	3.5	S	5.4	3.1	4.3	3.1-5.4	MR
26	Bio -9681-C	3.0	MS	4.0	S	5.2	2.7	4.0	2.7-5.2	MR
27	Seedtech 2324	2.5	MS	2.0	MR	4.4	2.9	3.6	2.9-4.4	MR
28	RES. CHECK	2.0	MR	-	-	-	2.2	2.2	2.2	MR
29	SUS. CHECK	3.8	S	-	-	8.3	5.0	6.7	5.0-8.3	MS

Resistant Check : P. RUST:- NITHYASHREE (MANDYA); C. ROT:- JCY 2-7 (HYDERABAD)

**Susceptible Check : P. RUST :- 219J (MANDYA); C.RUST:- CM 202 (ARBHAVI) C. ROT:- CM 600 (LUDHIANA)
BML 6 (HYDERABAD)**

Contd.

S.No	Genotype	FSR (1-9)		SDM (%)		RDM (%)		
		UDAI	Reaction	MAND	COIM*	Reaction	UDAI	Reaction
AVT-I (Late)								
1	VNR 31834	3.1	MR	100.0	0.0	S	0.0	R
2	X 35D601	2.4	R	100.0	0.0	S	0.0	R
3	DKC 9133(IM9133)	1.9	R	94.1	0.0	S	0.0	R
4	DKC 9141 (IM8539)	1.4	R	100.0	0.0	S	23.0	MR
5	HTMH 5108	2.1	R	83.8	0.0	S	17.0	MR
6	HTMH 5202	1.9	R	95.9	2.5	S	17.0	MR
7	HTMH 5404	1.5	R	100.0	0.0	S	22.0	MR
8	KMH-2811	3.4	MR	100.0	0.0	S	29.0	MS
9	RMH-972	1.5	R	90.0	0.0	S	58.0	S
10	SUPER GA-105	1.9	R	100.0	0.0	S	21.0	MR
11	VNR 31355	3.4	MR	100.0	0.0	S	0.0	R
12	Siri 4527	2.1	R	100.0	0.0	S	0.0	R
13	JH 12247	2.1	R	100.0	2.5	S	16.0	MR
14	Bio 032 (BB032)	2.8	R	100.0	10.0	S	22.0	MR
15	IM 8562	2.0	R	100.0	0.0	S	57.0	S
16	CP. 999	2.1	R	72.5	0.0	S	0.0	R
17	DAS-MH-105	2.2	R	100.0	0.0	S	0.0	R
18	IM 8556	2.8	R	100.0	0.0	S	0.0	R
19	JANAHIT	3.1	MR	100.0	5.0	S	0.0	R
20	PRO-392	3.2	MR	100.0	0.0	S	24.0	MR
AVT-II Late								
21	LTH-22	3.2	MR	100.0	0.0	S	31.0	MS
22	NMH-1265	3.9	MR	100.0	0.0	S	0.0	R
23	Geo Primium Diamond	3.0	MR	100.0	0.0	S	0.0	R

Contd.

S.No	Genotype	FSR (1-9)		SDM (%)			RDM (%)	
		UDAI	Reaction	MAND	COIM*	Reaction	UDAI	Reaction
24	PMH 1-C	1.4	R	97.4	5.0	S	7.0	R
25	PMH 3-C	1.6	R	100.0	0.0	S	57.0	S
26	Bio -9681-C	1.8	R	100.0	0.0	S	6.0	R
27	Seedtech 2324	1.9	R	100.0	2.5	S	11.0	MR
28	RES. CHECK	-	-	4.4	0.0	R	-	-
29	SUS. CHECK	8.6	S	97.6	25.0	S	100.0	S

Resistant Check : SDM:- NAH 1137 (MANDYA); CoH6 (COIMBATORE)

**Susceptible Check : FSR:- SURYA (UDAIPUR); SDM:- CM 500 (MANDYA); CM 500 (COIMBATORE)
RDM :- SURYA (UDAIPUR)**

* Data not considered due to low disease pressure

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
AVT-I (Late)						
1	VNR 31834	9.4	28.6	19.0	9.4-28.6	MR
2	X 35D601	62.6	57.1	59.9	57.1-62.6	S
3	DKC 9133(IM9133)	50.0	11.1	30.6	11.1-50.0	MS
4	DKC 9141 (IM8539)	24.6	14.3	19.4	14.3-24.6	MR
5	HTMH 5108	18.3	14.3	16.3	14.3-18.3	MR
6	HTMH 5202	27.1	28.6	27.9	27.1-28.6	MS
7	HTMH 5404	50.0	35.7	42.9	35.7-50.0	MS
8	KMH-2811	53.6	42.9	48.3	42.9-53.6	MS
9	RMH-972	76.6	50.0	63.3	50.0-76.6	S
10	SUPER GA-105	56.9	21.4	39.2	21.4-56.9	MS
11	VNR 31355	36.8	28.6	32.7	28.6-36.8	MS
12	Siri 4527	46.2	50.0	48.1	46.2-50.0	MS
13	JH 12247	50.0	21.4	35.7	21.4-50.0	MS
14	Bio 032 (BB032)	10.4	42.9	26.7	10.4-42.9	MS
15	IM 8562	58.3	21.4	39.9	21.4-58.3	MS
16	CP. 999	3.3	14.3	8.8	3.3-14.3	R
17	DAS-MH-105	48.1	42.9	45.5	42.9-48.1	MS
18	IM 8556	16.5	42.9	29.7	16.5-42.9	MS
19	JANAHIT	19.0	21.4	20.2	19.0-21.4	MR
20	PRO-392	42.6	21.4	32.0	21.4-42.6	MS
AVT-II Late						
21	LTH-22	75.0	64.3	69.7	64.3-75.0	
22	NMH-1265	25.8	21.4	23.6	21.4-25.8	MR
23	Geo Primium Diamond	38.5	21.4	29.9	21.4-38.5	MS

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
24	PMH 1-C	21.0	21.4	21.2	21.0-21.4	MR
25	PMH 3-C	10.2	27.3	18.8	10.2-27.3	MR
26	Bio -9681-C	75.0	50.0	62.5	50.0-75.0	S
27	Seedtech 2324	46.9	35.7	41.3	35.7-46.9	MS
28	SUS. CHECK	52.9	28.6	40.8	28.6-52.9	MS

Susceptible Check :BSR:- CM600 (PANTNAGAR); DKC 7074 (DHAULAKUAN)

Contd.

S.No	Genotype	CLS (1-5)				Cyst/ plant (n=5)		
		UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
AVT-I (Late)								
1	VNR 31834	1.5	2.0	1.8	1.5-2.0	R	14--23	S
2	X 35D601	0.5	2.0	1.3	0.5-2.0	R	3--8	MR
3	DKC 9133(IM9133)	1.0	2.0	1.5	1.0-2.0	R	19--26	S
4	DKC 9141 (IM8539)	1.5	2.0	1.8	1.5-2.0	R	9--15	S
5	HTMH 5108	1.0	2.0	1.5	1.0-2.0	R	16--21	S
6	HTMH 5202	1.0	3.0	2.0	1.0-3.0	R	20--28	S
7	HTMH 5404	2.0	3.0	2.5	2.0-3.0	MR	11--19	S
8	KMH-2811	3.0	3.0	3.0	3.0-3.0	MR	35--42	S
9	RMH-972	1.5	1.3	1.4	1.3-1.5	R	20--27	S
10	SUPER GA-105	1.5	2.0	1.8	1.5-2.0	R	29--36	S
11	VNR 31355	0.5	3.0	1.8	0.5-3.0	R	16--22	S
12	Siri 4527	1.0	1.3	1.1	1.0-1.3	R	13--20	S
13	JH 12247	1.0	1.3	1.1	1.0-1.3	R	19--28	S
14	Bio 032 (BB032)	1.0	3.0	2.0	1.0-3.0	R	28--34	S
15	IM 8562	2.0	3.0	2.5	2.0-3.0	MR	10--18	S
16	CP. 999	2.0	1.3	1.6	1.3-2.0	R	4--9	MR
17	DAS-MH-105	1.0	1.3	1.1	1.0-1.3	R	3--7	MR
18	IM 8556	2.0	2.0	2.0	2.0-2.0	R	15--21	S
19	JANAHIT	1.5	2.0	1.8	1.5-2.0	R	10--19	S
20	PRO-392	1.0	2.0	1.5	1.0-2.0	R	7--14	S
AVT-II Late								
21	LTH-22	1.0	2.0	1.5	1.0-2.0	R	20--32	S
22	NMH-1265	1.5	2.0	1.8	1.5-2.0	R	18--26	S
23	Geo Primium Diamond	1.0	2.0	1.5	1.0-2.0	R	11--17	S

Contd.

S.No	Genotype	CLS (1-5)				Cyst/ plant (n=5)		
		UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
24	PMH 1-C	2.0	1.3	1.6	1.3-2.0	R	13--20	S
25	PMH 3-C	1.5	1.3	1.4	1.3-1.5	R	6--13	S
26	Bio -9681-C	1.5	1.3	1.4	1.3-1.5	R	22--30	S
27	Seedtech 2324	1.5	3.0	2.3	1.5-3.0	MR	13--23	S
29	SUS. CHECK	4.5	3.0	3.8	3.0-4.5	MS	28--36	S

Susceptible Check :CLS:-SURYA (UDAIPUR); DKC 7074 (DHAULAKUAN);
CYST NEMATODE:- PEEHM-5 (UDAIPUR)

Table 6. Disease screening of AVT I & II (medium maturity) maize hybrids (Trial 76)

S.No	Genotype	Maydis leaf blight score (1-5)					Av. Score	Range	Reaction
		DHO	KAR	LUDH	DHAU	DELH			
AVT-I									
1	LG 32.82	3.0	1.6	2.3	3.0	2.5	2.5	1.6-3.0	MR
2	AQH 4	3.0	2.3	2.8	2.0	2.0	2.4	2.0-3.0	MR
3	CMH 10-547	3.0	2.0	2.3	2.0	2.0	2.3	2.0-3.0	MR
4	DKC 9144 (IM8478)	3.0	1.7	2.3	2.0	2.5	2.3	1.7-3.0	MR
5	DKC 9149 (IM8581)	3.5	2.2	2.3	2.5	2.5	2.6	2.2-3.5	MR
6	FCH 11231	3.0	2.5	2.3	2.0	2.0	2.4	2.0-3.0	MR
7	JKMH 4545	4.0	1.8	2.8	3.0	2.0	2.7	1.8-4.0	MR
8	S-6750	2.5	2.0	2.8	3.0	2.0	2.5	2.0-3.0	MR
9	TH-38	3.5	1.8	2.8	2.5	2.0	2.5	1.8-3.5	MR
10	AQH 9	2.5	2.1	1.8	3.0	2.0	2.3	1.8-3.0	MR
11	CMH 11-582	2.0	1.4	2.3	3.0	1.5	2.0	1.4-3.0	R
12	DKC 8144 (IM 8479)	3.0	2.0	2.5	1.3	2.0	2.2	1.3-3.0	MR
13	Kuber Shakthi	2.5	2.2	2.3	2.0	2.0	2.2	2.0-2.5	MR
14	AQH 8	3.5	2.2	3.5	2.0	2.5	2.7	2.0-3.5	MR
15	HTMH 5402	3.5	1.7	1.8	3.0	1.5	2.3	1.5-3.5	MR
16	BH 41150	2.5	1.8	2.8	3.0	2.0	2.4	2.0-3.0	MR
17	CMH 11-617	2.0	1.6	2.3	3.0	2.5	2.3	1.6-3.0	MR
18	EH-2205	3.5	2.1	3.3	4.0	2.0	3.0	2.0-3.5	MR
19	EH-2240	2.5	2.0	2.0	2.0	2.0	2.1	2.0-2.5	MR
20	EHL 3412	3.0	1.6	2.0	3.0	1.5	2.2	1.5-3.0	MR
21	KMH-5951	4.0	2.6	3.0	4.0	2.0	3.1	2.0-4.0	MS
22	PRMH-2177	2.5	2.4	2.3	4.0	2.0	2.6	2.0-4.0	MR
23	KDMH 2705	3.5	1.9	1.8	1.5	2.0	2.1	1.5-3.5	MR
24	KNMH 4010131	2.0	1.8	2.0	3.0	1.5	2.0	1.5-3.0	R

Contd.

Maydis leaf blight score (1-5)									
S.No	Genotype	DHOL	KARN	LUDH	DHAU	DELH	Av. Score	Range	Reaction
AVT-II									
25	DKC 9145 (IJ8533)	3.5	2.1	2.3	1.3	2.0	2.2	1.3-3.5	MR
26	Rasi-3033	4.0	2.2	2.0	2.5	2.0	2.5	2.0-4.0	MR
27	PMH 4 (C)	3.0	2.3	2.8	3.0	2.0	2.6	2.0-3.0	MR
28	Bio -9637(C)	3.0	1.8	2.0	2.5	2.0	2.3	1.8-3.0	MR
29	HM 4-C	3.5	2.1	3.3	4.0	2.0	3.0	2.0-4.0	MR
30	HM 8-C	3.5	2.3	3.3	4.0	2.0	3.0	2.0-4.0	MR
31	HM 9-C	4.0	2.0	3.0	3.0	2.0	2.8	2.0-4.0	MR
32	RES. CHECK	-	1.1	-	-	-	1.1	1.1	R
33	SUS. CHECK	5.0	3.6	4.5	3.0	4.5	4.1	3.0-5.0	S

Resistant Check : MLB:- HQPM 1 (KARNAL)

**Susceptible Check : MLB:- CML 186 (DHOLI); HKI 1105 + HKI 536CBT (KARNAL); CM 600 (LUDHIANA)
DKC 7074 (DHAULAKUAN); CM 600 (DELHI)**

Contd.

Turcicum leaf blight score (1-5)								
S.No	Genotype	BAJA	ALMO	MAND	ARBH	Av. Score	Range	Reaction
AVT-I								
1	LG 32.82	2.3	2.0	2.5	3.5	2.6	2.0-3.5	MR
2	AQH 4	2.3	1.5	2.5	3.0	2.3	1.5-3.0	MR
3	CMH 10-547	2.3	2.5	2.5	4.0	2.8	2.5-4.0	MR
4	DKC 9144 (IM8478)	1.8	2.0	2.5	3.0	2.3	1.8-3.0	MR
5	DKC 9149 (IM8581)	1.8	2.5	2.5	3.0	2.4	1.8-3.0	MR
6	FCH 11231	1.8	2.0	2.8	4.0	2.6	1.8-4.0	MR
7	JKMH 4545	2.8	1.5	4.0	4.5	3.2	1.5-4.5	MS
8	S-6750	2.0	1.5	2.8	3.5	2.5	1.5-3.5	MR
9	TH-38	3.5	3.0	2.5	4.5	3.4	2.5-4.5	MS
10	AQH 9	2.3	3.5	3.0	3.0	2.9	2.3-3.5	MR
11	CMH 11-582	2.3	1.5	3.0	3.0	2.4	1.5-3.0	MR
12	DKC 8144 (IM 8479)	2.3	1.5	2.0	4.0	2.4	1.5-4.0	MR
13	Kuber Shakthi	1.8	2.5	2.0	3.5	2.4	1.8-3.5	MR
14	AQH 8	2.3	2.5	2.3	3.0	2.5	2.3-3.0	MR
15	HTMH 5402	2.8	2.0	2.5	3.0	2.6	2.0-3.0	MR
16	BH 41150	2.5	2.5	3.0	3.0	2.8	2.5-3.0	MR
17	CMH 11-617	2.0	2.0	2.8	3.0	2.5	2.0-3.0	MR
18	EH-2205	2.8	2.0	2.8	3.5	2.8	2.0-3.5	MR
19	EH-2240	1.5	1.5	2.8	4.0	2.5	1.5-4.0	MR
20	EHL 3412	1.8	2.0	2.5	3.5	2.4	1.8-3.5	MR
21	KMH-5951	3.8	3.0	2.8	3.5	3.3	2.8-3.8	MS
22	PRMH-2177	2.8	2.0	2.3	4.0	2.8	2.0-4.0	MR
23	KDMH 2705	2.3	1.5	3.0	4.0	2.7	1.5-4.0	MR
24	KNMH 4010131	1.8	1.5	2.3	3.0	2.1	1.5-3.0	MR

Contd.

Turcicum leaf blight score (1-5)								
S.No	Genotype	BAJA	ALMO	MAND	ARBH	Av. Score	Range	Reaction
AVT-II								
25	DKC 9145 (IJ8533)	2.0	1.5	2.0	3.5	2.3	1.5-3.5	MR
26	Rasi-3033	2.3	2.0	2.8	3.0	2.5	2.0-3.0	MR
27	PMH 4 (C)	3.5	3.0	2.5	4.0	3.3	2.5-4.0	MS
28	Bio -9637(C)	2.8	2.5	2.5	3.5	2.8	2.5-3.5	MR
29	HM 4-C	2.3	3.5	2.5	3.5	2.9	2.3-3.5	MR
30	HM 8-C	4.3	4.5	4.0	5.0	4.4	4.0-5.0	S
31	HM 9-C	2.8	3.5	2.5	3.5	3.0	2.5-3.5	MR
32	RES. CHECK	-	1.5	1.5	-	1.5	1.5	R
33	SUS. CHECK	4.5	4.5	4.5	-	4.5	4.5	S
34	SUS. CHECK - Local	4.5	-	-	-	4.5	4.5	S

Resistant Check : TLB:- V373 (ALMORA); NITHYASHREE (MANDYA)

Susceptible Check : TLB:- CM 202 (BAJAURA); DHYARI LOCAL (ALMORA); 219J (MANDYA); CM 202 (ARBHAVI)

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MEDI	PANT	DHAU	DELH	BHUB	KAR	Av. Score	Range	Reaction
AVT-I										
1	LG 32.82	4.2	4.3	3.0	3.5	2.5	3.2	3.4	2.5-4.3	MS
2	AQH 4	4.5	5.0	4.5	3.0	2.5	3.1	3.8	2.5-5.0	MS
3	CMH 10-547	3.9	2.5	4.0	2.5	2.8	3.0	3.1	2.5-4.0	MS
4	DKC 9144 (IM8478)	4.5	3.5	4.0	3.0	2.8	1.8	3.3	1.8-4.5	MS
5	DKC 9149 (IM8581)	4.7	4.3	2.5	3.0	3.5	3.3	3.5	2.5-4.7	MS
6	FCH 11231	4.9	3.8	4.0	2.5	3.5	3.4	3.7	2.5-4.9	MS
7	JKMH 4545	4.8	4.0	4.0	3.0	3.8	2.3	3.7	2.3-4.8	MS
8	S-6750	4.4	3.5	3.0	3.0	3.3	2.6	3.3	2.6-4.4	MS
9	TH-38	4.0	4.3	4.0	3.0	2.0	3.4	3.4	2.0-4.3	MS
10	AQH 9	4.0	5.0	3.5	3.5	3.0	2.2	3.5	2.2-5.0	MS
11	CMH 11-582	3.5	3.5	3.5	2.5	3.5	2.1	3.1	2.1-3.5	MS
12	DKC 8144 (IM 8479)	3.5	4.0	4.0	3.0	3.3	2.2	3.3	2.2-4.0	MS
13	Kuber Shakthi	4.1	4.3	4.0	2.5	3.3	2.4	3.4	2.4-4.3	MS
14	AQH 8	4.1	4.8	3.5	4.0	3.5	2.5	3.7	2.5-4.8	MS
15	HTMH 5402	3.8	3.8	4.0	3.0	2.8	2.2	3.3	2.2-4.0	MS
16	BH 41150	3.6	3.8	4.0	3.0	2.3	2.8	3.2	2.3-4.0	MS
17	CMH 11-617	4.3	4.0	4.0	2.5	3.5	2.4	3.5	2.4-4.3	MS
18	EH-2205	3.0	4.8	4.0	3.0	3.3	2.5	3.4	2.5-4.8	MS
19	EH-2240	4.0	4.3	4.0	3.0	2.8	2.1	3.4	2.1-4.3	MS
20	EHL 3412	4.3	3.3	3.0	2.5	3.0	1.8	3.0	1.8-4.3	MR
21	KMH-5951	3.6	4.8	2.5	3.0	4.3	2.5	3.4	2.5-4.8	MS
22	PRMH-2177	4.4	4.3	4.0	3.0	4.3	2.0	3.7	2.0-4.4	MS
23	KDMH 2705	4.3	5.0	4.0	3.0	3.3	1.8	3.6	1.8-5.0	MS
24	KNMH 4010131	3.9	3.3	3.0	2.5	3.3	2.2	3.0	2.2-3.9	MR

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MEDI	PANT	DHAU	DELH	BHUB	KARN	Av. Score	Range	Reaction
AVT-II										
25	DKC 9145 (IJ8533)	4.4	4.0	3.0	3.0	3.8	3.3	3.6	3.0-4.4	MS
26	Rasi-3033	3.2	4.3	4.0	3.0	3.5	2.4	3.4	2.4-4.3	MS
27	PMH 4 (C)	3.9	5.0	4.0	3.5	3.3	2.2	3.7	2.2-5.0	MS
28	Bio -9637(C)	4.9	4.3	4.0	3.0	2.8	2.3	3.5	2.3-4.9	MS
29	HM 4-C	4.2	4.8	3.0	2.0	3.5	2.2	3.3	2.0-4.8	MS
30	HM 8-C	3.9	2.8	4.0	3.0	3.0	2.2	3.1	2.2-4.0	MS
31	HM 9-C	2.7	4.8	4.0	3.0	3.5	2.0	3.3	2.0-4.8	MS
32	RES. CHECK	-	-	-	-	-	1.9	1.9	1.9	R
	SUS. CHECK	-	4.0	4.0	4.0	4.0	3.4	3.9	3.4-4.0	MS

Resistant Check : BLSB:- HQPM 1 (KARNAL)

**Susceptible Check : BLSB:- AMAR (PANTNAGAR); CML 186 (DHAULAKUAN); CM 501 (DELHI); NK 30 (BHUBNESWAR)
HKI 1105+ HKI 536CBT (KARNAL)**

Contd.

S.No	Genotype	P.RUST (1-5)		C.RUST (1-5)		C.ROT (1-9)		Av. Score	Range	Reaction
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE			
AVT-I										
1	LG 32.82	2.8	MS	4.0	S	3.2	1.6	2.4	1.6-3.2	R
2	AQH 4	2.8	MS	3.0	MS	4.7	2.6	3.7	2.6-4.7	MR
3	CMH 10-547	1.8	MR	3.0	MS	6.9	1.8	4.4	1.8-6.9	MR
4	DKC 9144 (IM8478)	1.5	MR	NG	NG	4.7	1.6	3.1	1.6-4.7	MR
5	DKC 9149 (IM8581)	1.8	MR	2.0	MR	5.7	2.1	3.9	2.1-5.7	MR
6	FCH 11231	2.0	MR	4.0	S	5.7	1.7	3.7	1.7-5.7	MR
7	JKMH 4545	2.3	MS	3.5	S	5.4	1.6	3.5	1.6-5.4	MR
8	S-6750	2.0	MR	3.5	S	5.0	2.1	3.6	2.1-5.0	MR
9	TH-38	3.0	MS	4.0	S	6.2	4.7	5.4	4.7-6.2	MS
10	AQH 9	2.8	MS	4.0	S	4.9	1.9	3.4	1.9-4.9	MR
11	CMH 11-582	2.5	MS	2.5	MS	6.8	5.1	5.9	5.1-6.8	MS
12	DKC 8144 (IM 8479)	2.3	MS	4.0	S	5.3	2.2	3.7	2.2-5.3	MR
13	Kuber Shakthi	2.3	MS	4.0	S	5.0	1.6	3.3	1.6-5.0	MR
14	AQH 8	3.3	S	3.0	MS	7.5	2.8	5.1	2.8-7.5	MS
15	HTMH 5402	2.3	MS	3.0	MS	3.7	1.7	2.7	1.7-3.7	R
16	BH 41150	2.5	MS	4.0	S	5.2	2.8	4.0	2.8-5.2	MR
17	CMH 11-617	2.0	MR	3.0	MS	5.8	1.9	3.8	1.9-5.8	MR
18	EH-2205	3.0	MS	4.0	S	5.9	1.9	3.9	1.9-5.9	MR
19	EH-2240	2.5	MS	4.5	HS	5.9	1.7	3.8	1.7-5.9	MR
20	EHL 3412	2.8	MS	3.5	S	4.9	1.9	3.4	1.9-4.9	MR
21	KMH-5951	2.8	MS	3.0	MS	6.5	4.1	5.3	4.1-6.5	MS
22	PRMH-2177	2.8	MS	3.0	MS	4.4	1.6	3.0	1.6-4.4	R
23	KDMH 2705	2.0	MR	3.0	MS	3.5	2.7	3.1	2.7-3.5	MR
24	KNMH 4010131	2.0	MR	2.5	MS	5.4	1.5	3.4	1.5-5.4	MR

Contd.

S.No	Genotype	P.RUST (1-5)		C.RUST (1-5)		C.ROT (1-9)		Av. Score	Range	Reaction
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE			
AVT-II										
25	DKC 9145 (IJ8533)	2.3	MS	-	-	4.7	1.6	3.1	1.6-4.7	MR
26	Rasi-3033	2.5	MS	2.5	MS	5.0	4.6	4.8	4.6-5.0	MR
27	PMH 4 (C)	4.3	HS	3.5	S	5.4	1.7	3.6	1.7-5.4	MR
28	Bio -9637(C)	1.8	MR	3.5	S	4.6	3.3	3.9	3.3-4.6	MR
29	HM 4-C	2.5	MS	3.5	S	7.0	2.6	4.8	2.6-7.0	MR
30	HM 8-C	3.5	S	5.0	HS	6.8	5.2	6.0	5.2-6.8	MS
31	HM 9-C	2.3	MS	2.5	MS	4.6	2.1	3.3	2.1-4.6	MR
32	RES. CHECK	1.8	MR	-	-	-	2.0	2.0	2.0-2.0	R
33	SUS. CHECK	3.8	S	-	-	7.3	5.9	6.6	5.9-7.3	MS

Resistant Check : P. RUST:- NITHYASHREE (MANDYA); C. ROT:- JCY 2-7 (HYDERABAD)

**Susceptible Check : P. RUST :-219J (MANDYA); C.RUST:- CM 202 (ARBHAVI); C. ROT:- CM 600 (LUDHIANA)
BML 6 (HYDERABAD)**

Contd.

S.No	Genotype	FSR (1-9)		SDM (%)		RDM (%)		
		UDAI	Reaction	MAND	COIM*	Reaction	UDAI	Reaction
AVT-I								
1	LG 32.82	2.0	R	100.0	10.0	S	28.0	MS
2	AQH 4	1.8	R	100.0	30.0	S	81.0	S
3	CMH 10-547	2.5	R	100.0	0.0	S	0.0	R
4	DKC 9144 (IM8478)	1.2	R	100.0	0.0	S	0.0	R
5	DKC 9149 (IM8581)	2.5	R	100.0	0.0	S	0.0	R
6	FCH 11231	1.3	R	100.0	25.0	S	8.0	R
7	JKMH 4545	2.6	R	100.0	0.0	S	20.0	MR
8	S-6750	1.8	R	100.0	0.0	S	0.0	R
9	TH-38	2.1	R	100.0	5.0	S	26.0	MS
10	AQH 9	2.4	R	100.0	45.0	S	50.0	MS
11	CMH 11-582	2.8	R	100.0	0.0	S	17.0	MR
12	DKC 8144 (IM 8479)	1.1	R	93.1	50.0	S	76.0	S
13	Kuber Shakthi	2.8	R	96.3	0.0	S	92.0	S
14	AQH 8	1.2	R	100.0	35.0	S	81.0	S
15	HTMH 5402	2.3	R	94.8	5.0	S	0.0	R
16	BH 41150	2.8	R	100.0	60.0	S	56.0	S
17	CMH 11-617	2.0	R	88.0	0.0	S	79.0	S
18	EH-2205	2.4	R	100.0	0.0	S	13.0	MR
19	EH-2240	1.7	R	100.0	0.0	S	17.0	MR
20	EHL 3412	1.8	R	81.7	37.5	S	0.0	R
21	KMH-5951	1.9	R	100.0	0.0	S	10.0	R
22	PRMH-2177	1.7	R	100.0	0.0	S	14.0	MR
23	KDMH 2705	1.0	R	70.7	15.0	S	15.0	MR
24	KNMH 4010131	1.4	R	78.7	7.5	S	92.0	S

Contd.

S.No	Genotype	FSR (1-9)		SDM (%)			RDM (%)	
		UDAI	Reaction	MAND	COIM*	Reaction	UDAI	Reaction
AVT-II								
25	DKC 9145 (IJ8533)	1.1	R	100.0	0.0	S	0.0	R
26	Rasi-3033	1.2	R	94.8	17.5	S	9.0	R
27	PMH 4 (C)	3.8	MR	100.0	15.0	S	0.0	R
28	Bio -9637(C)	2.3	R	97.3	50.0	S	6.0	R
29	HM 4-C	3.4	MR	100.0	50.0	S	0.0	R
30	HM 8-C	2.5	R	100.0	5.0	S	29.0	MS
31	HM 9-C	2.8	R	100.0	0.0	S	12.0	MR
32	RES. CHECK	-	-	17.8	0.0	MR	-	-
33	SUS. CHECK	8.8	S	97.6	49.0	S	100.0	S

Resistant Check : SDM:- NAH 1137 (MANDYA); CoH6 (COIMBATORE)

**Susceptible Check : FSR:- SURYA (UDAIPUR); SDM:- CM 500 (MANDYA); CM 500 (COIMBATORE)
RDM ; SURYA (UDAIPUR)**

* Data not considered due to low disease pressure

Contd.

S.No	Genotype	Bacterial stalk rot score (%)				Reaction
		PANT	DHAU	Av. Score	Range	
AVT-I						
1	LG 32.82	15.4	0.0	7.7	0.0-15.4	R
2	AQH 4	76.9	14.3	45.6	14.3-76.9	MS
3	CMH 10-547	47.2	21.4	34.3	21.4-47.2	MS
4	DKC 9144 (IM8478)	20.0	14.3	17.2	14.3-20.0	MR
5	DKC 9149 (IM8581)	31.9	7.1	19.5	7.1-31.9	MR
6	FCH 11231	26.5	14.3	20.4	14.3-26.5	MR
7	JKMH 4545	10.5	50.0	30.2	10.5-50.0	MS
8	S-6750	26.2	57.9	42.0	26.2-57.9	MS
9	TH-38	23.8	14.3	19.1	14.3-23.8	MR
10	AQH 9	86.1	10.0	48.0	10.0-86.1	MS
11	CMH 11-582	24.5	11.1	17.8	11.1-24.5	MR
12	DKC 8144 (IM 8479)	14.3	26.7	20.5	14.3-26.7	MR
13	Kuber Shakthi	19.5	37.5	28.5	19.5-37.5	MS
14	AQH 8	67.9	7.1	37.5	7.1-67.9	MS
15	HTMH 5402	19.2	14.3	16.8	14.3-19.2	MR
16	BH 41150	35.4	0.0	17.7	0.0-35.4	MR
17	CMH 11-617	11.9	14.3	13.1	11.9-14.3	MR
18	EH-2205	82.6	7.1	44.8	7.1-82.6	MS
19	EH-2240	20.2	28.6	24.4	20.2-28.6	MR
20	EHL 3412	3.6	14.3	8.9	3.6-14.3	R
21	KMH-5951	82.8	42.9	62.9	42.9-82.8	S
22	PRMH-2177	45.8	27.8	36.8	27.8-45.8	MS
23	KDMH 2705	45.0	15.0	30.0	15.0-45.0	MS
24	KNMH 4010131	25.0	7.1	16.1	7.1-25.0	MR

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
AVT-II						
25	DKC 9145 (IJ8533)	42.1	0.0	21.0	0.0-42.1	MR
26	Rasi-3033	43.2	60.0	51.6	43.2-60.0	S
27	PMH 4 (C)	35.4	10.0	22.7	10.0-35.4	MR
28	Bio -9637(C)	68.2	35.7	51.9	35.7-68.2	S
29	HM 4-C	34.3	28.6	31.4	28.6-34.3	MS
30	HM 8-C	50.0	28.6	39.3	28.6-50.0	MS
31	HM 9-C	17.0	35.3	26.1	17.0-35.3	MS
32	SUS. CHECK	52.9	35.7	44.3	35.7-52.9	MS

Susceptible Check :BSR:- CM 600 (PANTNAGAR); DKC 7074 (DHAULAKUAN)

Contd.

S.No	Genotype	CLS (1-5)				Cyst/ plant (n=5)		
		UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
AVT-I								
1	LG 32.82	2.0	3.0	2.5	2.0-3.0	MR	11--17	S
2	AQH 4	2.5	2.0	2.3	2.0-2.5	MR	19--28	S
3	CMH 10-547	2.0	2.0	2.0	2.0-2.0	R	16--21	S
4	DKC 9144 (IM8478)	1.5	1.3	1.4	1.3-1.5	R	20--25	S
5	DKC 9149 (IM8581)	1.0	1.3	1.1	1.0-1.3	R	23--33	S
6	FCH 11231	1.0	2.0	1.5	1.0-2.0	R	10--18	S
7	JKMH 4545	1.5	3.0	2.3	1.5-3.0	MR	25--31	S
8	S-6750	1.0	3.0	2.0	1.0-3.0	R	20--26	S
9	TH-38	1.0	2.0	1.5	1.0-2.0	R	27--33	S
10	AQH 9	1.5	3.0	2.3	1.5-3.0	MR	23--29	S
11	CMH 11-582	1.5	3.0	2.3	1.5-3.0	MR	2--6	MR
12	DKC 8144 (IM 8479)	0.5	1.3	0.9	0.5-1.3	R	14--22	S
13	Kuber Shakthi	0.5	2.0	1.3	0.5-2.0	R	4--8	MR
14	AQH 8	1.0	2.0	1.5	1.0-2.0	R	21--27	S
15	HTMH 5402	2.0	3.0	2.5	2.0-3.0	MR	13--20	S
16	BH 41150	2.0	3.0	2.5	2.0-3.0	MR	7--15	S
17	CMH 11-617	2.0	3.0	2.5	2.0-3.0	MR	3--9	MR
18	EH-2205	1.0	4.0	2.5	1.0-4.0	MR	21--30	S
19	EH-2240	1.0	2.0	1.5	1.0-2.0	R	10--18	S
20	EHL 3412	2.0	3.0	2.5	2.0-3.0	MR	11--16	S
21	KMH-5951	1.0	4.0	2.5	1.0-4.0	MR	31--38	S
22	PRMH-2177	1.0	4.0	2.5	1.0-4.0	MR	20--24	S
23	KDMH 2705	2.0	1.5	1.8	1.5-2.0	R	13--18	S
24	KNMH 4010131	4.0	3.0	3.5	3.0-4.0	MS	14--22	S

Contd.

S.No	Genotype	CLS (1-5)			Cyst/ plant (n=5)			
		UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
AVT-II								
25	DKC 9145 (IJ8533)	4.5	1.3	2.9	1.3-4.5	MR	21--28	S
26	Rasi-3033	2.0	2.5	2.3	2.0-2.5	MR	15--21	S
27	PMH 4 (C)	2.0	3.0	2.5	2.0-3.0	MR	20--29	S
28	Bio -9637(C)	1.5	2.5	2.0	1.5-2.5	R	16--24	S
29	HM 4-C	2.0	4.0	3.0	2.0-4.0	MR	10--19	S
30	HM 8-C	2.5	4.0	3.3	2.5-4.0	MS	35--42	S
31	HM 9-C	2.0	3.0	2.5	2.0-3.0	MR	18--25	S
32	SUS. CHECK	4.5	3.0	3.8	3.0-4.5	MS	30--37	S

Susceptible Check :CLS:-SURYA (UDAIPUR); DKC 7074 (DHAULAKUAN);

CYST NEMATODE:- PEEHM-5 (UDAIPUR)

Table 7. Disease screening of AVT I & II (early maturity) maize hybrids (Trial 77)

S.No	Genotype	Maydis leaf blight score (1-5)					Av. Score	Range	Reaction
		DHOL	KARN	LUDH	DHU	DELH			
AVT-I									
1.	AH 1261	3.0	1.6	3.8	3.0	3.0	2.9	1.6-3.8	MR
2.	DMH-63	2.0	2.7	3.0	2.0	4.5	2.8	2.0-4.5	MR
3.	FH 3664	3.0	2.5	3.3	4.0	2.0	3.0	2.0-4.0	MR
4.	FH 3669	2.0	1.4	2.0	2.0	2.0	1.9	1.4-2.0	R
5.	JH-31610	3.0	3.3	2.8	3.0	2.5	2.9	2.5-3.3	MR
6.	LG 31.81	5.0	3.1	4.5	4.0	2.5	3.8	2.5-5.0	MS
7.	MEH 1-12-13	3.0	2.8	2.8	4.0	2.0	2.9	2.0-4.0	MR
8.	Bio 9720	3.5	2.1	2.8	4.0	1.5	2.8	1.5-4.0	MR
9.	GWH 0712	4.0	2.9	4.3	3.0	3.0	3.4	3.0-4.3	MS
10.	CMH 11-579	2.0	3.1	2.5	1.3	2.0	2.2	1.3-3.1	MR
11.	CMH 11-595	2.0	1.8	2.5	2.0	3.0	2.3	1.8-3.0	MR
12.	CMH 11-611	2.0	1.9	2.3	2.0	1.5	1.9	1.5-2.3	R
13.	CMH 11-626	1.5	1.8	2.3	3.0	1.5	2.0	1.5-3.0	R
14.	CMH 11-629	1.5	2.3	2.8	1.3	2.0	2.0	1.3-2.8	R
15.	B-52	2.0	2.0	2.0	3.0	2.0	2.2	2.0-3.0	MR
16.	EH-2214	1.5	2.0	2.0	2.0	2.0	1.9	1.5-2.0	R
17.	NMH-1258	1.5	1.6	2.0	3.0	1.5	1.9	1.5-3.0	R
18.	HKH341	4.0	3.2	3.3	4.0	2.0	3.3	2.0-4.0	MS
19.	EH-2233	3.0	2.3	3.5	3.0	2.5	2.9	2.3-3.5	MR
20.	JH-31613	2.5	2.3	3.5	4.0	1.5	2.8	1.5-4.0	MR
AVT-II									
21.	EH-2212	1.5	2.0	3.5	4.0	2.0	2.6	1.5-4.0	MR
22.	FH 3605	3.0	2.4	2.5	3.0	2.0	2.6	2.0-3.0	MR
23.	FH 3626	2.5	2.2	3.3	4.0	2.0	2.8	2.0-4.0	MR

Contd.

Maydis leaf blight score (1-5)									
S.No	Genotype	DHOL	KARN	LUDH	DHU	DELH	Av. Score	Range	Reaction
24.	KMH-7021	2.5	3.1	2.8	4.0	2.0	2.9	2.0-4.0	MR
25.	CMH 10-531	1.5	3.2	2.0	2.0	3.0	2.3	1.5-3.2	MR
26.	Prakash (C)	3.5	3.0	3.8	4.0	2.0	3.3	2.0-4.0	MS
27.	RES. CHECK	-	1.5	-	-	-	1.5	1.5-1.5	R
28.	SUS. CHECK	4.0	4.2	4.5	3.0	4.5	4.0	3.0-4.5	MS

Resistant Check : MLB:- HQPM 1 (KARNAL)

**Susceptible Check : MLB:- CML 186 (DHOLI); HKI 1105 + HKI 536CBT (KARNAL); CM 600 (LUDHIANA)
DKC 7074 (DHAULAKUAN); CM 600 (DELHI)**

Contd.

Turcicum leaf blight score (1-5)									
S.No	Genotype	BAJA	ALMO	MAND	ARBH	BARA	Av. Score	Range	Reaction
AVT-I									
1.	AH 1261	3.8	2.0	3.0	3.5	3.1	3.0	2.0-3.5	MR
2.	DMH-63	2.3	2.5	2.5	2.5	2.2	2.4	2.2-2.5	MR
3.	FH 3664	2.8	3.0	2.5	3.5	2.2	2.8	2.2-3.5	MR
4.	FH 3669	1.8	2.0	2.0	3.0	2.8	2.3	1.8-3.0	MR
5.	JH-31610	5.0	4.5	2.8	4.0	4.7	4.2	2.8-5.0	S
6.	LG 31.81	2.8	3.5	4.3	5.0	3.8	3.9	2.8-5.0	MS
7.	MEH 1-12-13	3.5	3.5	3.3	4.0	3.5	3.6	3.3-4.0	MS
8.	Bio 9720	2.8	2.5	2.0	4.5	2.8	2.9	2.0-4.5	MR
9.	GWH 0712	4.3	2.5	3.8	5.0	4.1	3.9	2.5-5.0	MS
10.	CMH 11-579	2.0	2.5	2.5	3.5	2.5	2.6	2.0-3.5	MR
11.	CMH 11-595	1.5	2.0	2.0	4.0	1.9	2.3	1.5-4.0	MR
12.	CMH 11-611	2.3	2.0	2.5	3.5	1.8	2.4	1.8-3.5	MR
13.	CMH 11-626	2.0	2.0	2.0	3.0	2.1	2.2	2.0-3.0	MR
14.	CMH 11-629	2.0	2.5	2.3	2.5	1.7	2.2	1.7-2.5	MR
15.	B-52	2.0	2.0	2.3	4.0	3.2	2.7	2.0-4.0	MR
16.	EH-2214	2.3	1.5	2.5	3.0	2.7	2.4	1.5-3.0	MR
17.	NMH-1258	2.0	2.5	2.0	3.0	3.3	2.6	2.0-3.3	MR
18.	HKH341	2.5	1.5	2.5	3.0	2.4	2.4	1.5-3.0	MR
19.	EH-2233	2.3	2.0	2.3	3.0	2.6	2.4	2.0-3.0	MR
20.	JH-31613	5.0	4.5	3.3	3.5	4.6	4.2	3.3-5.0	S
AVT-II									
21.	EH-2212	2.5	2.0	2.5	2.5	2.7	2.4	2.0-2.7	MR
22.	FH 3605	2.8	3.0	2.8	4.0	3.7	3.2	2.8-4.0	MS
23.	FH 3626	2.3	2.5	2.5	4.0	2.3	2.7	2.3-4.0	MR

Contd.

Turcicum leaf blight score (1-5)									
S.No	Genotype	BAJA	ALMO	MAND	ARBH	BARA	Av. Score	Range	Reaction
24.	KMH-7021	2.0	2.0	2.5	5.0	1.9	2.7	1.9-5.0	MR
25.	CMH 10-531	1.8	2.5	3.0	5.0	1.5	2.8	1.5-5.0	MR
26.	Prakash (C)	3.8	2.0	3.8	4.5	3.0	3.4	2.0-4.5	MS
27.	RES. CHECK	-	1.5	2.3	-	-	1.9	1.5-2.3	R
28.	SUS. CHECK	4.5	4.5	4.3	-	-	4.4	4.3-4.5	S
	SUS. CHECK - Local	5.0	-	-	-	-	5.0	5.0	S

Resistant Check : TLB:- V373 (ALMORA); NITHYASHREE (MANDYA)

**Susceptible Check : TLB:- CM 202 (BAJAURA); DHYARI LOCAL (ALMORA); 219J (MANDYA);
CM202 (ARBHAVI)**

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MID	PANT	DHU	DELH	BHUB	KARN	Av. Score	Range	Reaction
AVT-I										
1.	AH 1261	3.6	4.8	2.5	3.0	3.8	3.3	3.5	2.5-4.8	MS
2.	DMH-63	4.3	3.3	3.0	2.0	3.8	2.9	3.2	2.0-4.3	MS
3.	FH 3664	4.8	3.8	4.0	3.5	3.3	2.4	3.6	2.4-4.8	MS
4.	FH 3669	3.5	3.8	3.0	3.5	2.8	2.4	3.2	2.4-3.8	MS
5.	JH-31610	3.4	3.8	3.5	3.0	2.3	2.5	3.0	2.3-3.8	MR
6.	LG 31.81	4.8	3.0	3.0	3.5	3.3	2.9	3.4	2.9-4.8	MS
7.	MEH 1-12-13	4.5	3.5	3.0	2.0	3.8	2.9	3.3	2.0-4.5	MS
8.	Bio 9720	4.6	3.8	3.0	3.0	2.8	2.4	3.3	2.4-4.6	MS
9.	GWH 0712	4.2	4.5	4.0	4.0	3.3	4.1	4.0	3.3-4.5	MS
10.	CMH 11-579	4.3	2.5	2.5	3.0	3.0	2.5	3.0	2.5-4.3	MR
11.	CMH 11-595	2.8	3.0	3.0	3.0	3.8	4.1	3.3	2.8-3.8	MS
12.	CMH 11-611	4.5	3.3	3.0	3.0	3.3	2.4	3.2	2.4-4.5	MS
13.	CMH 11-626	-	3.3	3.5	3.5	3.0	3.5	3.4	3.0-3.5	MS
14.	CMH 11-629	4.8	3.8	3.5	3.0	2.8	2.1	3.3	2.1-4.8	MS
15.	B-52	4.2	4.0	2.5	2.5	3.3	3.1	3.3	2.5-4.2	MS
16.	EH-2214	3.7	2.8	4.0	3.0	3.0	3.6	3.3	2.8-4.0	MS
17.	NMH-1258	3.8	4.8	3.5	3.0	3.3	3.3	3.6	3.0-4.8	MS
18.	HKH341	4.8	3.8	4.0	2.0	2.8	3.1	3.4	2.0-4.8	MS
19.	EH-2233	4.4	4.3	2.5	3.0	3.8	2.4	3.4	2.4-4.4	MS
20.	JH-31613	3.4	4.0	4.0	2.5	3.3	2.4	3.3	2.4-4.0	MS
AVT-II										
21.	EH-2212	3.7	3.8	3.0	3.0	3.3	3.7	3.4	3.0-3.8	MS
22.	FH 3605	-	4.3	2.5	3.5	3.5	3.2	3.4	2.5-4.3	MS
23.	FH 3626	4.4	3.8	2.5	3.5	4.3	3.5	3.7	2.5-4.4	MS

Contd.

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MID	PANT	DHU	DELH	BHUB	KARN	Av. Score	Range	Reaction
24.	KMH-7021	3.4	4.3	3.0	4.0	3.8	4.0	3.7	3.0-4.3	MS
25.	CMH 10-531	4.5	2.8	2.5	3.0	3.0	3.9	3.3	2.5-3.9	MS
26.	Prakash (C)	4.6	3.3	3.0	2.5	4.3	3.6	3.5	2.5-4.6	MS
27.	RES. CHECK	-	-	-	-	-	1.3	1.3	1.3	R
28.	SUS. CHECK	-	4.0	3.5	4.0	4.5	3.5	3.9	3.5-4.5	MR

Resistant Check : BLSB:- HQPM 1 (KARNAL)

**Susceptible Check : BLSB:- AMAR (PANTNAGAR); CML 186 (DHAULAKUAN); CM501 (DELHI);
NK 30 (BHUBNESWAR)**

Contd.

S.No	Genotype	P.RUST (1-5)		C.RUST (1-5)		C.ROT (1-9)		Av. Score	Range	Reaction
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE			
AVT-I										
1.	AH 1261	3.3	S	2.5	MS	6.6	2.5	4.5	2.5-6.6	MR
2.	DMH-63	2.5	MS	2.5	MS	6.5	1.7	4.1	1.7-6.5	MR
3.	FH 3664	3.0	MS	3.5	S	5.5	1.8	3.6	1.8-5.5	MR
4.	FH 3669	2.8	MS	3.5	S	6.3	1.9	4.1	1.9-6.3	MR
5.	JH-31610	3.0	MS	3.0	MS	5.3	1.9	3.6	1.9-5.3	MR
6.	LG 31.81	3.3	S	4.0	S	8.2	3.9	6.1	3.9-8.2	MS
7.	MEH 1-12-13	3.0	MS	4.0	S	5.9	2.4	4.2	2.4-5.9	MR
8.	Bio 9720	3.0	MS	2.5	MS	5.7	1.8	3.7	1.8-5.7	MR
9.	GWH 0712	4.3	HS	4.5	HS	7.4	4.7	6.1	4.7-7.4	MS
10.	CMH 11-579	2.5	MS	3.5	S	5.0	1.6	3.3	1.6-5.0	MR
11.	CMH 11-595	2.8	MS	3.0	MS	4.6	2.1	3.3	2.1-4.6	MR
12.	CMH 11-611	2.5	MS	2.5	MS	6.0	1.8	3.9	1.8-6.0	MR
13.	CMH 11-626	2.3	MS	3.0	MS	5.4	1.9	3.7	1.9-5.4	MR
14.	CMH 11-629	2.3	MS	2.5	MS	6.7	1.9	4.3	1.9-6.7	MR
15.	B-52	2.5	MS	3.5	S	5.2	2.3	3.7	2.3-5.2	MR
16.	EH-2214	2.3	MS	3.5	S	6.0	1.7	3.8	1.7-6.0	MR
17.	NMH-1258	2.5	MS	3.5	S	6.8	1.7	4.2	1.7-6.8	MR
18.	HKH341	2.3	MS	3.0	MS	6.3	1.7	4.0	1.7-6.3	MR
19.	EH-2233	3.0	MS	3.5	S	6.9	1.9	4.4	1.9-6.9	MR
20.	JH-31613	3.0	MS	2.0	MR	8.3	2.1	5.2	2.1-8.3	MS
AVT-II										
21.	EH-2212	3.0	MS	3.0	MS	6.9	1.7	4.3	1.7-6.9	MR
22.	FH 3605	2.3	MS	3.0	MS	7.6	1.9	4.8	1.9-7.6	MR
23.	FH 3626	2.5	MS	4.0	S	6.4	4.0	5.2	4.0-6.4	MS

Contd.

S.No	Genotype	P.RUST (1-5)		C.RUST (1-5)		C.ROT (1-9)		Av. Score	Range	Reaction
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE			
24.	KMH-7021	2.8	MS	4.0	S	5.8	4.5	5.2	4.5-5.8	MS
25.	CMH 10-531	2.8	MS	4.0	S	6.3	1.6	4.0	1.6-6.3	MR
26.	Prakash (C)	3.5	S	5.0	HS	6.1	3.5	4.8	3.5-6.1	MR
27.	RES. CHECK	2.5	MS	-	-	-	2.1	2.1	5.0-7.5	R
28.	SUS. CHECK	4.0	S	-	-	7.5	5.0	6.3	5.0-7.5	MS

Resistant Check : P. RUST:- NITHYASHREE (MANDYA); C. ROT:- JCY 2-7 (HYDERABAD)

Susceptible Check : P. RUST :-219J (MANDYA); C.RUST:- CM 202 (ARBHAVI) C. ROT:- CM 600 (LUDHIANA);
BML 6 (HYDERABAD);

Contd.

S.No	Genotype	FSR (1-9)		SDM (%)		RDM (%)		
		UADI	Reaction	MAND	COIM*	Reaction	UADI	Reaction
AVT-I								
1.	AH 1261	2.7	R	100.0	15.0	S	29.0	MS
2.	DMH-63	2.3	R	86.5	5.0	S	15.0	MR
3.	FH 3664	3.1	MR	100.0	0.0	S	38.0	MS
4.	FH 3669	2.8	R	88.8	15.0	S	0.0	R
5.	JH-31610	2.4	R	100.0	5.0	S	87.0	S
6.	LG 31.81	2.9	R	100.0	5.0	S	100.0	S
7.	MEH 1-12-13	3.6	MR	100.0	7.5	S	13.0	MR
8.	Bio 9720	3.1	MR	100.0	5.0	S	27.0	MS
9.	GWH 0712	2.5	R	100.0	25.0	S	0.0	R
10.	CMH 11-579	2.6	R	89.6	0.0	S	14.0	MR
11.	CMH 11-595	1.9	R	98.2	32.5	S	13.0	MR
12.	CMH 11-611	2.3	R	93.9	50.0	S	22.0	MR
13.	CMH 11-626	2.0	R	95.8	0.0	S	20.0	MR
14.	CMH 11-629	2.8	R	89.6	5.0	S	12.0	MR
15.	B-52	1.5	R	89.2	15.0	S	9.0	R
16.	EH-2214	1.7	R	100.0	22.5	S	8.0	R
17.	NMH-1258	3.3	MR	100.0	100.0	S	22.0	MR
18.	HKH341	2.3	R	100.0	30.0	S	23.0	MR
19.	EH-2233	1.8	R	100.0	50.0	S	25.0	MR
20.	JH-31613	2.9	R	100.0	15.0	S	77.0	S
AVT-II								
21.	EH-2212	1.9	R	100.0	60.0	S	20.0	MR
22.	FH 3605	3.6	MR	80.3	12.5	S	9.0	R
23.	FH 3626	4.9	MR	100.0	5.0	S	0.0	R

Contd.

S.No	Genotype	FSR (1-9)		SDM (%)		RDM (%)		
		UADI	Reaction	MAND	COIM*	Reaction	UADI	Reaction
24.	KMH-7021	2.3	R	96.2	35.0	S	8.0	R
25.	CMH 10-531	3.5	MR	80.6	15.0	S	0.0	R
26.	Prakash (C)	2.3	R	100.0	10.0	S	38.0	MS
27.	RES. CHECK	-	-	20.0	64.0	MS	-	-
28.	SUS. CHECK	8.2	S	97.5	0.0	S	100.0	S

Resistant Check : SDM:- NAH 1137 (MANDYA); CoH6 (COIMBATORE)

**Susceptible Check : FSR SURYA (UDAIPUR); SDM:- CM 500 (MANDYA); CM 500 (COIMBATORE)
RDM ; SURYA (UDAIPUR)**

* Data not considered due to low disease pressure

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
AVT-I						
1.	AH 1261	49.4	36.4	42.9	36.4-49.4	MR
2.	DMH-63	14.0	20.0	17.0	14.0-20.0	MR
3.	FH 3664	22.0	0.0	11.0	0.0-22.0	MR
4.	FH 3669	58.2	16.7	37.4	16.7-58.2	MR
5.	JH-31610	30.4	9.1	19.8	9.1-30.4	MR
6.	LG 31.81	48.7	61.5	55.1	48.7-61.5	S
7.	MEH 1-12-13	27.4	14.3	20.8	14.3-27.4	MR
8.	Bio 9720	19.2	21.4	20.3	19.2-21.4	MR
9.	GWH 0712	52.2	41.7	47.0	41.7-52.2	MR
10.	CMH 11-579	34.6	35.7	35.1	34.6-35.7	MR
11.	CMH 11-595	25.0	21.4	23.2	21.4-25.0	MR
12.	CMH 11-611	20.6	42.9	31.7	20.6-42.9	MR
13.	CMH 11-626	16.0	26.7	21.4	16.0-26.7	MR
14.	CMH 11-629	0.0	41.7	20.9	0.0-41.7	MR
15.	B-52	0.0	25.0	12.5	0.0-25.0	MR
16.	EH-2214	4.5	13.3	8.9	4.5-13.3	R
17.	NMH-1258	69.7	33.3	51.5	33.3-69.7	S
18.	HKH341	29.3	40.0	34.6	29.3-40.0	MR
19.	EH-2233	21.6	44.4	33.0	21.6-44.4	MR
20.	JH-31613	10.5	14.3	12.4	10.5-14.3	MR
AVT-II						
21.	EH-2212	5.0	13.3	9.2	5.0-13.3	R
22.	FH 3605	55.5	6.3	30.9	6.3-55.5	MR
23.	FH 3626	40.2	13.3	26.8	13.3-40.2	MR

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
24.	KMH-7021	47.3	60.0	53.6	47.3-60.0	S
25.	CMH 10-531	15.4	38.5	26.9	15.4-38.5	MR
26.	Prakash (C)	31.3	30.8	31.0	30.8-31.3	MR
27.	SUS. CHECK	83.3	20	51.7	20.0-83.3	S

Susceptible Check :BSR:- CM600 (PANTNAGAR); DKC 7074 (DHAULAKUAN)

Contd.

S.No	Genotype	CLS (1-5)				Cyst/ plant (n=5)		
		UADI	DHU	Av. Score	Range	Reaction	UADI	Reaction
AVT-I								
1.	AH 1261	1.5	2.0	1.8	1.5-2.0	R	23--31	S
2.	DMH-63	1.0	3.0	2.0	1.0-3.0	R	18--25	S
3.	FH 3664	0.5	3.0	1.8	0.5-3.0	R	20--25	S
4.	FH 3669	2.5	2.0	2.3	2.0-2.5	MR	11--18	S
5.	JH-31610	2.0	3.0	2.5	2.0-3.0	MR	9--15	S
6.	LG 31.81	1.5	3.0	2.3	1.5-3.0	MR	23--31	S
7.	MEH 1-12-13	1.0	2.0	1.5	1.0-3.0	R	33--40	S
8.	Bio 9720	3.5	3.0	3.3	3.0-3.5	MS	14--22	S
9.	GWH 0712	2.0	3.0	2.5	2.0-3.0	MR	28--38	S
10.	CMH 11-579	2.0	2.0	2.0	2.0-2.0	R	10--16	S
11.	CMH 11-595	2.0	2.5	2.3	2.0-2.5	MR	13--21	S
12.	CMH 11-611	2.0	2.0	2.0	2.0-2.0	R	9--18	S
13.	CMH 11-626	2.0	3.0	2.5	2.0-3.0	MR	5--12	S
14.	CMH 11-629	1.5	2.0	1.8	1.5-2.0	R	3--8	MR
15.	B-52	2.0	3.0	2.5	2.0-3.0	MR	12--20	S
16.	EH-2214	1.5	1.3	1.4	1.3-1.5	R	3--7	MR
17.	NMH-1258	1.0	2.0	1.5	1.0-2.0	R	5--11	S
18.	HKH341	3.0	3.0	3.0	3.0-3.0	MR	14--22	S
19.	EH-2233	2.5	3.0	2.8	2.5-3.0	MR	20--27	S
20.	JH-31613	3.0	3.0	3.0	3.0-3.0	MR	35--43	S
AVT-II								
21.	EH-2212	3.0	3.0	3.0	3.0-3.0	MR	17--23	S
22.	FH 3605	3.5	2.0	2.8	2.0-3.5	MR	20--25	S
23.	FH 3626	3.5	3.0	3.3	3.0-3.5	MS	40--46	S

Contd.

S.No	Genotype	UADI	DHU	Av. Score	Range	Reaction	Cyst/ plant (n=5)	
							UADI	Reaction
24.	KMH-7021	3.5	3.0	3.3	3.0-3.5	MS	10--15	S
25.	CMH 10-531	3.5	2.0	2.8	2.0-3.5	MR	9--13	S
26.	Prakash (C)	2.0	3.0	2.5	2.0-3.0	MR	20--27	S
27.	SUS. CHECK	4.5	3.0	3.8	3.0-4.5	MS	26--33	S

Susceptible Check :CLS:-SURYA (UDAIPUR); DKC 7074 (DHAULAKUAN);
CYST NEMATODE:- PEEHM-5 (UDAIPUR)

Table 8. Disease screening of AVT I & II (extra early maturity) maize hybrids (Trial 78)

S.No	Genotype	Maydis leaf blight score (1-5)					Av. Score	Range	Reaction
		DHOL	KARN	LUDH	DHAU	DELH			
AVT-I									
1	APQH 9	4.0	2.0	4.0	1.0	2.0	2.6	1.0-4.0	MR
2	AH-1212	3.0	2.3	3.3	4.0	3.0	3.1	2.3-4.0	MS
3	KH-7502	2.5	1.8	3.5	3.0	2.5	2.7	1.8-3.5	MR
4	Vivek Hybrid-21 (C)	2.5	1.8	3.8	2.0	2.0	2.4	1.8-3.8	MR
5	Vivek Hybrid-43(C)	4.0	2.2	2.0	1.3	2.0	2.3	1.3-4.0	MR
6	VIVEK QPM 9-C	2.5	2.1	2.8	1.3	2.5	2.2	1.3-2.8	MR
7	PMH-1-F	2.5	1.8	2.0	1.3	2.0	1.9	1.3-2.5	R
8	BIO 9681-F	3.0	3.4	2.5	4.0	3.0	3.2	2.5-4.0	MS
9	PMH 3-F	2.0	1.6	2.0	1.0	1.5	1.6	1.0-2.0	R
10	HM 10-F	3.0	2.4	2.8	1.3	2.0	2.3	1.3-3.0	MR
11	RES. CHECK	-	1.5	-	-	-	1.5	1.5-1.5	R
12	SUS. CHECK	5.0	4.0	4.5	3.0	4.5	4.2	3.0-5.0	S

Resistant Check : MLB:- HQPM 1 (KARNAL)

**Susceptible Check : MLB:- CML 186 (DHOLI); HKI 1105 + HKI 536CBT (KARNAL); CM 600 (LUDHIANA)
DKC 7074 (DHAULAKUAN); CM 600 (DELHI)**

Contd.

Turcicum leaf blight score (1-5)									
S.No	Genotype	BAJA	ALMO	MAND	ARBH	BARA	Av. Score	Range	Reaction
AVT-I									
1	APQH 9	2.3	2.5	4.0	5.0	2.3	3.2	2.3-5.0	MS
2	AH-1212	3.5	4.0	4.0	5.0	4.0	4.1	3.5-5.0	S
3	KH-7502	2.3	2.0	2.5	4.0	2.1	2.6	2.0-4.0	MR
4	Vivek Hybrid-21 (C)	4.0	3.5	4.3	5.0	4.2	4.2	3.5-5.0	S
5	Vivek Hybrid-43(C)	2.0	2.0	3.3	5.0	1.7	2.8	1.7-5.0	MR
6	VIVEK QPM 9-C	2.5	2.5	3.7	4.5	1.4	2.9	1.4-4.5	MR
7	PMH-1-F	2.0	2.0	3.0	2.5	1.2	2.1	1.2-3.0	MR
8	BIO 9681-F	2.3	2.5	2.5	4.0	2.3	2.7	2.3-4.0	MR
9	PMH 3-F	1.8	2.0	3.0	2.5	1.3	2.1	1.3-3.0	MR
10	HM 10-F	1.8	3.0	2.0	3.5	1.2	2.3	1.2-3.5	MR
11	RES. CHECK	-	1.5	2.0	-	-	1.8	1.5-2.0	R
12	SUS. CHECK	4.0	4.5	4.5	-	-	4.3	4.0-4.5	S
13	SUS. CHECK - Local	4.8	-	-			4.8	4.8	S

Contd.

Resistant Check : TLB:- V373 (ALMORA); NITHYASHREE (MANDYA)

Susceptible Check : TLB:- CM 202 (BAJAURA); DHYARI LOCAL (ALMORA); 219J (MANDYA); CM202 (ARBHAVI)

Banded leaf and sheath blight score (1-5)										
S.No	Genotype	MEDI	PANT	DHAU	DELH	BHUB	KARN	Av. Score	Range	Reaction
AVT-I										
1	APQH 9	4.7	4.3	4.0	3.0	3.8	2.3	3.7	2.3-4.7	MS
2	AH-1212	5.0	4.3	2.0	3.5	3.0	2.3	3.3	2.0-5.0	MS
3	KH-7502	4.2	3.0	4.5	3.0	2.8	2.2	3.3	2.2-4.5	MS
4	Vivek Hybrid-21 (C)	4.0	4.0	3.0	4.0	3.0	3.4	3.6	3.0-4.0	MS
5	Vivek Hybrid-43(C)	4.7	3.8	4.5	4.0	2.8	4.1	4.0	2.8-4.7	MS
6	VIVEK QPM 9-C	3.9	4.3	1.3	4.0	3.0	2.4	3.1	1.3-4.0	MS
7	PMH-1-F	3.8	3.5	4.5	3.0	4.0	4.1	3.8	3.0-4.5	MS
8	BIO 9681-F	4.4	4.0	4.5	3.0	3.3	4.0	3.9	3.0-4.5	MS
9	PMH 3-F	3.4	3.8	1.0	3.0	2.5	3.4	2.8	1.0-3.8	MR
10	HM 10-F	3.3	2.3	1.3	3.0	3.0	2.1	2.5	1.3-3.3	MR
11	RES. CHECK	-	-	-	-	-	1.6	1.6	1.6	R
12	SUS. CHECK	-	4.0	1.3	4.0	4.3	3.4	3.4	1.3-4.3	MS

Resistant Check : BLSB:- HQPM 1 (KARNAL)

**Susceptible Check : BLSB:- AMAR (PANTNAGAR); CML 186 (DHAULAKUAN); CM501 (DELHI);
NK 30(BHUBNESWAR)**

Contd.

S.No	Genotype	P.RUST (1-5)		C.RUST (1-5)		C.ROT (1-9)		Av. Score	Range	Reaction
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE			
AVT-I										
1	APQH 9	3.0	MR	5.0	HS	4.9	4.6	4.7	4.6-4.9	MR
2	AH-1212	3.7	S	5.0	HS	6.1	4.2	5.1	4.2-6.1	MS
3	KH-7502	3.3	S	3.0	MR	5.8	2.3	4.0	2.3-5.8	MR
4	Vivek Hybrid-21 (C)	3.3	S	5.0	HS	6.2	3.5	4.9	3.5-6.2	MR
5	Vivek Hybrid-43(C)	3.3	S	5.0	HS	8.0	3.5	5.7	3.5-8.0	MS
6	VIVEK QPM 9-C	3.3	S	4.5	HS	4.6	2.9	3.8	2.9-4.6	MR
7	PMH-1-F	3.0	MR	3.0	MR	4.6	2.2	3.4	2.2-4.6	MR
8	BIO 9681-F	3.0	MR	3.5	S	5.7	3.7	4.7	3.7-5.7	MR
9	PMH 3-F	4.0	S	3.0	MR	4.6	3.0	3.8	3.0-4.6	MR
10	HM 10-F	3.3	S	4.0	S	5.4	1.4	3.4	1.4-5.4	MR
11	RES. CHECK	2.3	MR	-	-	-	2.2	2.2	2.2	R
12	SUS. CHECK	3.8	MS	-	-	7.7	5.9	6.8	5.9-7.7	MS

Resistant Check : P. RUST:- NITHYASHREE (MANDYA); C. ROT:- JCY 2-7 (HYDERABAD)

**Susceptible Check : P. RUST :-219J (MANDYA); C.RUST:- CM 202 (ARBHAVI); C. ROT:- CM 600 (LUDHIANA);
BML 6 (HYDERABAD)**

Contd.

S.No	Genotype	FSR (1-9)		SDM (%)		Reaction	RDM ((%)	
		UDAI	Reaction	MAND	COIM*		UDAI	Reaction
AVT-I								
1	APQH 9	3.2	MR	100.0	50.0	S	23.0	MR
2	AH-1212	6.3	MS	100.0	15.0	S	88.0	S
3	KH-7502	2.3	R	92.9	0.0	S	0.0	R
4	Vivek Hybrid-21 (C)	3.2	MR	100.0	0.0	S	15.0	MR
5	Vivek Hybrid-43(C)	2.7	R	96.4	50.0	S	0.0	R
6	VIVEK QPM 9-C	6.8	MS	100.0	0.0	S	20.0	MR
7	PMH-1-F	2.7	R	88.7	45.0	S	20.0	MR
8	BIO 9681-F	3.0	R	84.5	0.0	S	18.0	MR
9	PMH 3-F	1.5	R	89.2	5.0	S	0.0	R
10	HM 10-F	1.6	R	100.0	0.0	S	20.0	MR
11	RES. CHECK	-	-	18.4	0.0	R	-	-
12	SUS. CHECK	8.4	S	100.0	54.0	S	100.0	S

Resistant Check : SDM:- NAH 1137 (MANDYA); CoH6 (COIMBATORE)

**Susceptible Check : FSR:- SURYA (UDAIPUR); SDM:- CM 500 (MANDYA); CM 500 (COIMBATORE)
RDM ; SURYA (UDAIPUR)**

* Data not considered due to low disease pressure

Contd.

S.No	Genotype	Bacterial stalk rot score (%)			Range	Reaction
		PANT	DHAU	Av. Score		
AVT-I						
1	APQH 9	55.8	66.7	61.2	55.8-66.7	S
2	AH-1212	25.4	40.0	32.7	25.4-40.0	MS
3	KH-7502	18.4	50.3	34.4	18.4-50.3	MS
4	Vivek Hybrid-21 (C)	50.0	50.0	50.0	50.0-50.0	MS
5	Vivek Hybrid-43(C)	44.2	30.0	37.1	30.0-44.2	MS
6	VIVEK QPM 9-C	39.4	50.0	44.7	39.4-50.0	MS
7	PMH-1-F	11.6	9.1	10.4	9.1-11.6	MR
8	BIO 9681-F	22.0	60.0	41.0	22.0-60.0	MS
9	PMH 3-F	3.6	100.0	51.8	3.6-100.0	S
10	HM 10-F	81.8	-	81.8	81.8	S
11	SUS. CHECK	72.7	27.3	50.0	27.3-72.7	S

Susceptible Check :BSR:- CM600 (PANTNAGAR) DKC 7074 (DHAULAKUAN)

Contd.

S.No	Genotype	CLS (1-5)				Cyst/ plant(n = 5)		
		UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
AVT-I								
1	APQH 9	2.5	1.0	1.8	1.0-2.5	R	29--36	S
2	AH-1212	3.0	3.0	3.0	3.0-3.0	MR	32--40	S
3	KH-7502	1.5	2.0	1.8	1.5-2.0	R	14--21	S
4	Vivek Hybrid-21 (C)	3.0	1.0	2.0	1.0-3.0	R	33--38	S
5	Vivek Hybrid-43(C)	2.5	1.3	1.9	1.3-2.5	R	22--26	S
6	VIVEK QPM 9-C	2.5	1.3	1.9	1.3-2.5	R	36--43	S
7	PMH-1-F	1.0	1.3	1.1	1.0-1.3	R	2--9	MR
8	BIO 9681-F	1.0	2.0	1.5	1.0-2.0	R	18--25	S
9	PMH 3-F	2.0	1.0	1.5	1.0-2.0	R	16--22	S
10	HM 10-F	1.5	2.0	1.8	1.5-2.0	R	19--24	S
11	SUS. CHECK	4.5	3.0	3.8	3.0-4.5	MS	28--35	S

Susceptible Check :CLS:-SURYA (UDAIPUR); DKC 7074 (DHAULAKUAN);
CYST NEMATODE:- PEEHM-5 (UDAIPUR)

Table 9. Disease screening of specialty corn hybrids

S.No	Genotype	Maydis leaf blight score (1-5)					Av. Score	Range	Reaction
		DHOL	DHAU	KARN	LUDH	DELH			
QPMI-II-III									
1	BAU QMH-17	3.0	4.0	2.3	3.8	2.0	3.0	2.0-4.0	MR
2	BQPMH 18	3.5	3.0	2.0	3.8	2.0	2.9	2.0-3.8	MR
3	BQPMH 36	2.0	4.0	2.8	4.3	2.0	3.0	2.0-4.3	MR
4	KDQH-49	3.5	3.0	2.4	3.3	2.0	2.8	2.0-3.5	MR
5	LQPMH 114	2.5	2.0	3.2	3.3	2.0	2.6	2.0-3.3	MR
6	LQPMH 214	2.0	1.0	3.2	2.5	2.0	2.1	1.0-3.2	MR
7	LQPMH 314	3.0	4.0	1.4	3.3	2.0	2.7	1.4-4.0	MR
8	OQPMH 11-6	3.0	3.0	2.7	3.3	2.0	2.8	2.0-3.3	MR
9	VEHQ 11-1	2.0	2.5	2.2	2.8	2.0	2.3	2.0-2.8	MR
10	VEHQ 14-1	1.5	3.0	1.5	3.3	2.0	2.3	1.5-3.3	MR
11	DMRQPM1401	3.0	3.0	2.0	2.5	2.0	2.5	2.0-3.0	MR
12	MMH QPM-6-12-13	1.5	3.0	2.2	2.8	2.5	2.4	1.5-3.0	MR
13	HQPM1-C	1.5	3.0	2.9	3.8	2.0	2.6	1.5-3.8	MR
14	HQPM4-C	2.5	3.0	2.8	3.3	1.5	2.6	1.5-3.3	MR
15	HQPM5-C	2.0	2.5	1.7	2.5	2.5	2.2	1.7-2.5	MR
16	Vivek QPM-9-C	2.5	3.0	1.9	2.8	2.0	2.4	1.9-3.0	MR
PC-I-II-III									
17	Pop corn (SCH)	4.5	3.0	2.6	2.8	3.0	3.2	2.6-4.5	MS
18	Bajaura Popcorn-2	4.5	3.0	3.4	4.5	3.5	3.8	3.0-4.5	MS
19	BPC 3	3.0	3.0	2.1	3.8	3.0	3.0	2.1-3.8	MR
20	BPCH 27	3.0	3.0	1.5	3.5	3.0	2.8	1.5-3.5	MR
21	KDPC-2	3.0	3.5	3.2	3.3	3.0	3.2	3.0-3.5	MS
22	DMRHP 1402	4.0	3.0	3.1	4.5	3.0	3.5	3.0-4.5	MS
23	VL Pop Corn-2	4.5	4.0	3.2	4.0	2.5	3.6	2.5-4.5	MS

Contd.

S.No	Genotype	Maydis leaf blight score (1-5)					Av. Score	Range	Reaction
		DHOL	DHAU	KARN	LUDH	DELH			
24	HPC 1	4.0	3.0	3.3	3.8	2.0	3.2	2.0-4.0	MS
25	VL Pop corn-C	2.0	4.0	3.2	3.8	3.0	3.2	2.0-4.0	MS
SC-I-II-III									
26	ADVSW -1	2.0	3.0	2.8	3.8	1.5	2.6	1.5-3.8	MR
27	ADVSW -2	2.5	3.0	1.4	4.3	2.0	2.6	1.4-4.3	MR
28	ASKH 1	2.5	3.0	3.1	2.3	2.0	2.6	2.0-3.1	MR
29	Bajaura Sweet Corn	4.0	3.0	3.2	3.8	2.5	3.3	2.5-4.0	MS
30	Bisco MaDHAU	3.0	3.0	2.5	3.8	2.0	2.9	2.0-3.8	MR
31	BSCH 6	2.0	2.0	2.3	2.5	2.5	2.3	2.0-2.5	MR
32	BSCH 63	1.5	3.0	3.0	3.3	2.0	2.6	1.5-3.3	MR
33	FSCH 18	3.0	4.0	2.8	3.8	2.0	3.1	2.0-4.0	MS
34	FSCH 41	3.0	4.0	2.6	3.8	2.5	3.2	2.5-4.0	MS
35	FSCH 55	2.5	2.5	2.5	3.8	2.0	2.7	2.0-3.8	MR
36	KSCH-333	2.0	2.0	1.4	3.3	1.5	2.0	1.4-3.3	R
37	QMHSC-1182	2.0	2.0	2.0	3.0	3.0	2.4	2.0-3.0	MR
38	SWC 001	2.0	3.0	2.8	2.8	2.0	2.5	2.0-3.0	MR
39	MaDHAUri-C	3.0	4.0	2.4	2.8	2.5	2.9	2.4-4.0	MR
40	WOSC-C	3.0	4.0	3.3	4.3	2.5	3.4	2.5-4.0	MS
BC-I-II-III									
41	ASKBH-1	2.5	4.0	2.0	3.3	2.0	2.8	2.0-4.0	MR
42	BVM-2	4.0	3.0	3.3	3.8	2.5	3.3	2.5-4.0	MS
43	CMH 11-658	2.0	3.0	1.8	2.0	-	2.2	1.8-3.0	MR
44	CMH 11-659	1.5	2.0	1.3	2.3	2.0	1.8	1.3-2.3	R
45	NP 5004	2.5	2.0	2.5	2.8	2.5	2.5	2.0-2.8	MR
46	NP 5040	2.0	3.0	1.4	3.8	2.5	2.5	1.4-3.8	MR
47	Vivek Hybrid-27	3.0	3.0	2.2	3.3	2.0	2.7	2.0-3.3	MR
48	HM 4-C	1.5	3.0	2.3	4.3	2.5	2.7	1.5-4.3	MR

Contd.

		Maydis leaf blight score (1-5)							
S.No	Genotype	DHOL	DHAU	KARN	LUDH	DELH	Av. Score	Range	Reaction
49	RES. CHECK	-	-	1.6	-	-	1.6	1.6-1.6	R
50	SUS. CHECK	3.5	3.0	4.1	4.3	5.0	4.0	3.0-5.0	MS

Resistant Check : MLB:- HQPM 1 (KARNAL)

**Susceptible Check : MLB:- CML 186 (DHOLI); HKI 1105 + HKI 536CBT (KARNAL); CM 600 (LUDHIANA)
DKC 7074 (DHAULAKUAN); CM 600 (DELHI)**

Contd.

Turcicum leaf blight score (1-5)									
S.No	Genotype	BAJA	ALMO	MAND	ARBH	BARA	Av. Score	Range	Reaction
QPMI-II-III									
1	BAU QMH-17	1.5	3.5	2.0	3.0	2.0	2.4	1.5-3.5	MR
2	BQPMH 18	3.5	3.5	4.3	4.5	3.7	3.9	3.5-4.5	MS
3	BQPMH 36	2.5	3.5	3.8	4.0	2.0	3.2	2.0-4.0	MS
4	KDQH-49	2.3	3.5	2.5	4.5	2.8	3.1	2.8-4.5	MS
5	LQPMH 114	2.8	3.5	2.8	4.5	0.9	2.9	0.9-4.5	MR
6	LQPMH 214	1.8	2.0	3.3	3.0	1.7	2.4	1.7-3.0	MR
7	LQPMH 314	4.0	3.0	3.0	4.0	3.3	3.5	3.0-4.0	MS
8	OQPMH 11-6	2.5	4.0	3.0	4.5	3.2	3.4	2.5-4.5	MS
9	VEHQ 11-1	3.3	3.0	1.5	4.5	1.4	2.7	1.4-4.5	MR
10	VEHQ 14-1	1.8	3.5	1.8	4.0	1.3	2.5	1.3-4.0	MR
11	DMRQPM1401	2.5	3.0	3.3	5.0	2.2	3.2	2.2-5.0	MS
12	MMH QPM-6-12-13	2.3	3.5	2.8	4.5	1.6	2.9	1.6-4.5	MR
13	HQPM1-C	1.8	3.0	2.0	3.0	1.3	2.2	1.3-3.0	MR
14	HQPM4-C	2.0	3.5	3.0	3.5	1.5	2.7	1.5-3.5	MR
15	HQPM5-C	1.5	2.5	2.5	4.0	1.7	2.4	1.7-4.0	MR
16	Vivek QPM-9-C	2.3	3.5	3.0	4.5	0.7	2.8	0.7-4.5	MR
PC-I-II-III									
17	Pop corn (SCH)	3.8	4.0	3.8	4.0	3.7	3.9	3.7-4.0	MS
18	Bajaura Popcorn-2	3.8	4.0	4.5	4.5	3.1	4.0	3.1-4.5	MS
19	BPC 3	2.8	4.0	3.0	5.0	2.9	3.5	2.8-5.0	MS
20	BPCH 27	2.8	3.5	3.3	4.0	2.9	3.3	2.8-4.0	MS
21	KDPC-2	2.0	2.5	4.0	5.0	2.2	3.1	2.0-5.0	MS
22	DMRHP 1402	4.3	4.0	2.8	4.5	3.3	3.8	2.8-4.5	MS
23	VL Pop Corn-2	3.5	2.5	3.5	5.0	3.6	3.6	2.5-5.0	MS

Contd.

Turcicum leaf blight score (1-5)									
S.No	Genotype	BAJA	ALMO	MAND	ARBH	BARA	Av. Score	Range	Reaction
24	HPC 1	2.0	2.5	3.5	4.5	3.0	3.1	2.0-4.5	MS
25	VL Pop corn-C	2.8	2.5	3.8	4.5	2.0	3.1	2.0-4.5	MS
SC-I-II-III									
26	ADVSW -1	2.0	3.5	3.8	3.5	2.0	3.0	2.0-3.8	MR
27	ADVSW -2	1.8	3.5	3.0	3.5	2.5	2.9	1.8-3.5	MR
28	ASKH 1	1.8	3.0	3.8	4.0	2.7	3.1	1.8-4.	MS
29	Bajaura Sweet Corn	2.0	4.5	4.3	4.5	2.8	3.6	2.0-4.5	MS
30	Bisco MaDHAU	3.8	4.0	4.0	5.0	3.4	4.0	3.4-5.0	MS
31	BSCH 6	2.3	3.5	2.5	4.0	1.8	2.8	1.8-4.0	MR
32	BSCH 63	1.8	3.0	3.0	4.5	-	3.1	1.8-4.5	MS
33	FSCH 18	2.3	2.5	4.3	4.0	1.6	2.9	1.6-4.3	MR
34	FSCH 41	1.8	2.5	2.8	4.5	2.6	2.8	1.8-4.5	MR
35	FSCH 55	2.8	2.5	3.3	5.0	1.9	3.1	1.9-5.0	MS
36	KSCH-333	3.3	3.5	3.3	4.0	3.3	3.5	3.3-4.0	MS
37	QMhSC-1182	2.3	2.5	3.0	4.0	1.6	2.7	1.6-4.0	MR
38	SWC 001	2.3	2.5	2.0	3.0	1.5	2.2	1.5-3.0	MR
39	MaDHAUri-C	2.0	4.0	2.8	4.0	-	3.2	2.0-4.0	MS
40	WOSC-C	2.0	3.5	2.8	5.0	4.1	3.5	2.0-5.0	MS
BC-I-II-III									
41	ASKBH-1	2.8	3.0	2.3	4.5	2.3	3.0	2.3-4.5	MR
42	BVM-2	4.3	4.0	4.0	5.0	3.3	4.1	3.3-5.0	S
43	CMH 11-658	4.3	3.0	2.8	2.5	-	3.1	2.5-4.3	MS
44	CMH 11-659	2.8	2.5	2.5	4.0	1.5	2.7	1.5-4.0	MR
45	NP 5004	1.8	3.0	2.5	4.5	2.6	2.9	1.8-4.5	MR
46	NP 5040	2.0	3.5	3.5	4.5	1.8	3.1	1.8-4.5	MS
47	Vivek Hybrid-27	3.5	2.5	2.5	4.0	3.1	3.1	2.5-4.0	MS
48	HM 4-C	2.5	3.5	2.5	3.5	3.0	3.0	2.5-3.5	MR

Contd.

Turcicum leaf blight score (1-5)									
S.No	Genotype	BAJA	ALMO	MAND	ARBH	BARA	Av. Score	Range	Reaction
49	RES. CHECK	-	1.5	2.3	-	-	1.9	1.5-2.3	R
50	SUS. CHECK	4.5	4.5	4.0	-	-	4.3	4.0-4.5	S
51	SUS. CHECK - Local	5.0	-	-	-	-	5.0	5.0-5.0	S

Resistant Check : TLB:- V373 (ALMORA); NITHYASHREE (MANDYA)

Susceptible Check : TLB:- CM 202 (BAJAURA); DHYARI LOCAL (ALMORA); 219J (MANDYA) CM202 (ARBHAVI)

Contd.

Banded leaf and sheath blight score (1-5)									
S.No	Genotype	MEDI	PANT	DHAU	DELH	KARN	Av. Score	Range	Reaction
QPMI-II-III									
1	BAU QMH-17	4.0	4.8	4.0	3.5	2.7	3.8	2.7-4.8	MS
2	BQPMH 18	3.4	2.8	2.0	3.5	2.7	2.9	2.0-3.5	MR
3	BQPMH 36	-	2.8	2.5	3.5	4.1	3.2	2.5-4.1	MS
4	KDQH-49	-	3.8	3.0	3.5	3.0	3.3	3.0-3.8	MS
5	LQPMH 114	-	3.5	3.0	3.0	2.5	3.0	2.5-3.5	MR
6	LQPMH 214	-	4.0	1.5	2.5	2.0	2.5	1.5-4.0	MR
7	LQPMH 314	3.5	3.5	3.0	3.5	1.8	3.1	1.8-3.5	MS
8	OQPMH 11-6	4.6	3.8	2.0	3.5	3.3	3.4	2.0-4.6	MS
9	VEHQ 11-1	-	4.3	2.0	3.5	1.9	2.9	1.9-4.3	MR
10	VEHQ 14-1	4.8	3.5	3.0	3.5	3.0	3.6	3.0-4.8	MS
11	DMRQPM1401	3.7	4.0	4.0	4.0	1.9	3.5	1.9-4.0	MS
12	MMH QPM-6-12-13	-	2.3	3.0	3.5	3.5	3.1	2.3-3.5	MS
13	HQPM1-C	4.3	3.8	2.0	2.5	2.2	3.0	2.0-4.3	MR
14	HQPM4-C	3.5	3.8	2.0	2.5	2.1	2.8	2.0-3.8	MR
15	HQPM5-C	3.1	4.0	2.0	3.5	2.3	3.0	2.0-4.0	MR
16	Vivek QPM-9-C	-	3.8	3.0	4.0	4.0	3.7	3.0-4.0	MS
PC-I-II-III									
17	Pop corn (SCH)	-	4.8	4.0	4.0	3.3	4.0	3.3-4.8	MS
18	Bajaura Popcorn-2	-	4.8	3.0	4.0	2.4	3.5	2.4-4.8	MS
19	BPC 3	3.9	4.0	2.0	3.5	2.1	3.1	2.0-4.0	MS
20	BPCH 27	4.7	4.8	3.0	3.0	2.3	3.6	2.3-4.8	MS
21	KDPC-2	-	3.8	1.3	3.0	2.0	2.5	1.3-3.8	MR
22	DMRHP 1402	4.0	3.5	3.0	4.0	3.7	3.6	3.0-4.0	MS
23	VL Pop Corn-2	-	4.3	3.0	3.0	3.0	3.3	3.0-4.3	MS

Contd.

Banded leaf and sheath blight score (1-5)									
S.No	Genotype	MEDI	PANT	DHAU	DELH	KARN	Av. Score	Range	Reaction
24	HPC 1	-	4.8	4.0	3.5	1.7	3.5	1.7-4.8	MS
25	VL Pop corn-C	-	4.0	3.0	3.5	3.3	3.5	3.3-4.0	MS
SC-I-II-III									
26	ADVSW -1	-	4.8	3.0	3.0	2.0	3.2	2.0-4.8	MS
27	ADVSW -2	-	3.8	4.0	3.5	2.0	3.3	2.0-4.0	MS
28	ASKH 1	-	3.3	1.5	3.5	2.9	2.8	1.5-3.5	MR
29	Bajaura Sweet Corn	4.1	4.5	2.0	3.5	2.9	3.4	2.0-4.5	MS
30	Bisco MaDHAU	4.7	4.8	2.0	3.5	1.9	3.4	1.9-4.8	MS
31	BSCH 6	3.2	4.3	3.0	4.5	2.3	3.5	2.3-4.5	MS
32	BSCH 63	-	4.8	3.0	3.5	2.2	3.4	2.2-4.8	MS
33	FSCH 18	-	4.0	4.0	4.0	2.4	3.6	2.4-4.0	MS
34	FSCH 41	-	3.8	2.0	4.0	2.6	3.1	2.0-4.0	MS
35	FSCH 55	-	4.0	4.0	3.5	3.2	3.7	3.2-4.0	MS
36	KSCH-333	4.5	4.3	2.0	3.0	3.3	3.4	2.0-4.5	MS
37	QMHSC-1182	5.0	4.8	4.0	4.0	3.1	4.2	3.1-5.0	S
38	SWC 001	3.3	3.8	1.5	3.0	1.9	2.7	1.5-3.8	MR
39	MaDHAUri-C	4.9	4.3	3.0	4.0	1.8	3.6	1.8-4.9	MS
40	WOSC-C	3.1	4.5	2.5	3.5	2.1	3.1	2.1-4.5	MS
BC-I-II-III									
41	ASKBH-1	3.8	4.3	3.0	3.5	1.7	3.3	1.7-4.3	MS
42	BVM-2	4.6	4.3	3.0	4.0	2.0	3.6	2.0-4.6	MS
43	CMH 11-658	3.2	4.0	3.0	-	2.0	3.1	2.0-4.0	MS
44	CMH 11-659	4.4	2.8	2.0	3.5	3.1	3.2	2.0-4.4	MS
45	NP 5004	3.8	4.5	2.0	4.5	2.6	3.5	2.0-4.5	MS
46	NP 5040	-	4.5	3.0	4.5	3.3	3.8	3.0-4.5	MS
47	Vivek Hybrid-27	-	3.0	3.0	3.5	2.8	3.1	2.8-3.5	MS
48	HM 4-C	-	3.8	4.0	3.0	4.1	3.7	3.0-4.0	MS

Contd.

Banded leaf and sheath blight score (1-5)									
S.No	Genotype	MEDI	PANT	DHAU	DELH	KARN	Av. Score Range		Reaction
49	RES. CHECK	-	-	-	-	1.8	1.8	1.8	R
50	SUS. CHECK	-	4.5	4.0	4.0	4.2	4.2	4.0-4.5	S

Resistant Check : BLSB:- HQPM 1 (KARNAL)

**Susceptible Check : BLSB:- AMAR (PANTNAGAR); CML 186 (DHAULAKUAN); CM 501 (DELHI);
NK 30 (BHUBNESWAR) HKI 1105+ HKI 536CBT (KARNAL)**

Contd.

S.No	Genotype	P. RUST (1-5)		C.RUST (1-5)		C.ROT (1-9)		Av. Score	Range	Reaction
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE			
QPMI-II-III										
1	BAU QMH-17	3.3	S	4.0	S	7.3	2.1	4.7	2.1-7.3	MR
2	BQPMH 18	3.8	S	5.0	HS	5.3	1.5	3.4	1.5-5.3	MR
3	BQPMH 36	3.5	S	4.0	S	6.5	2.0	4.2	2.0-6.5	MR
4	KDQH-49	3.5	S	5.0	HS	5.8	3.4	4.6	3.4-5.8	MR
5	LQPMH 114	3.0	MS	4.5	HS	3.9	1.4	2.6	1.4-3.9	R
6	LQPMH 214	3.3	S	3.0	MS	3.8	1.5	2.7	1.5-3.8	R
7	LQPMH 314	3.3	S	5.0	HS	6.8	3.1	4.9	3.1-6.8	MR
8	OQPMH 11-6	2.8	MS	4.5	HS	5.7	1.8	3.7	1.8-5.7	MR
9	VEHQ 11-1	3.0	MS	5.0	HS	4.8	2.1	3.5	2.1-4.8	MR
10	VEHQ 14-1	2.5	MS	4.5	HS	5.7	1.3	3.5	1.3-5.7	MR
11	DMRQPM1401	3.5	S	5.0	HS	5.1	4.0	4.5	4.0-5.1	MR
12	MMH QPM-6-12-13	2.8	MS	4.0	S	3.6	3.1	3.4	3.1-3.6	MR
13	HQPM1-C	2.5	MS	4.5	HS	5.0	1.3	3.1	1.3-5.0	MR
14	HQPM4-C	2.8	MS	4.5	HS	4.8	1.3	3.0	1.3-4.8	R
15	HQPM5-C	3.0	MS	4.0	S	5.0	1.4	3.2	1.4-5.0	MR
16	Vivek QPM-9-C	3.0	MS	4.5	HS	5.5	1.4	3.4	1.4-5.5	MR
PC-I-II-III										
17	Pop corn (SCH)	3.5	S	4.5	HS	7.5	1.3	4.4	1.3-7.5	MR
18	Bajaura Popcorn-2	3.5	S	4.5	HS	8.1	2.9	5.5	2.9-8.1	MS
19	BPC 3	3.0	MS	5.0	HS	6.4	2.9	4.7	2.9-6.4	MR
20	BPCH 27	3.3	S	3.0	MS	6.2	1.5	3.9	1.5-6.2	MR
21	KDPC-2	3.3	S	5.0	HS	5.5	4.3	4.9	4.3-5.5	MR
22	DMRHP 1402	3.3	S	4.0	S	4.8	1.9	3.4	1.9-4.8	MR
23	VL Pop Corn-2	3.8	S	4.5	HS	5.3	1.6	3.4	1.6-5.3	MR

Contd.

S.No	Genotype	P. RUST (1-5)		C.RUST (1-5)		C.ROT (1-9)		Av. Score	Range	Reaction
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE			
24	HPC 1	3.3	S	4.0	S	4.1	5.6	4.8	4.1-5.6	MR
25	VL Pop corn-C	3.0	MS	4.5	HS	4.0	2.2	3.1	2.2-4.0	MR
SC-I-II-III										
26	ADVSW -1	2.8	MS	4.0	S	7.5	4.0	5.8	4.0-7.5	MS
27	ADVSW -2	3.0	MS	4.0	S	5.4	1.7	3.6	1.7-5.4	MR
28	ASKH 1	3.0	MS	4.5	HS	7.2	1.3	4.2	1.3-7.2	MR
29	Bajaura Sweet Corn	3.3	S	4.5	HS	7.6	4.9	6.2	4.9-7.6	MS
30	Bisco MaDHAU	3.5	S	5.0	HS	6.3	2.2	4.2	2.2-6.3	MR
31	BSCH 6	3.0	MS	4.5	HS	5.2	1.6	3.4	1.6-5.2	MR
32	BSCH 63	3.0	MS	4.5	HS	7.3	3.4	5.3	3.4-7.3	MS
33	FSCH 18	3.0	MS	4.0	S	5.9	1.4	3.6	1.4-5.9	MR
34	FSCH 41	2.8	MS	4.0	S	7.6	2.1	4.9	2.1-7.6	MR
35	FSCH 55	3.5	S	4.0	S	8.1	2.0	5.0	2.0-8.1	MR
36	KSCH-333	3.0	MS	3.5	S	4.9	1.6	3.3	1.6-4.9	MR
37	QMHSC-1182	2.8	MS	3.5	S	6.2	1.7	3.9	1.7-6.2	MR
38	SWC 001	2.5	MS	4.0	S	5.5	1.3	3.4	1.3-5.5	MR
39	MaDHAUri-C	3.0	MS	4.0	S	5.5	1.2	3.4	1.2-5.5	MR
40	WOSC-C	3.0	MS	4.5	HS	7.8	1.3	4.6	1.3-7.8	MR
BC-I-II-III										
41	ASKBH-1	3.3	S	4.5	HS	5.6	1.5	3.5	1.5-5.6	MR
42	BVM-2	3.8	S	5.0	HS	8.3	4.8	6.6	4.8-8.3	MS
43	CMH 11-658	3.0	MS	3.5	S	4.1	1.2	2.6	1.2-4.1	R
44	CMH 11-659	2.5	MS	4.0	S	5.1	1.3	3.2	1.3-5.1	MR
45	NP 5004	3.3	S	4.0	S	5.5	2.3	3.9	2.3-5.5	MR
46	NP 5040	3.0	MS	4.0	S	5.4	1.9	3.7	1.9-5.4	MR
47	Vivek Hybrid-27	3.3	S	3.0	MS	8.1	2.6	5.4	2.6-8.1	MS
48	HM 4-C	3.3	S	3.5	S	5.5	1.4	3.5	1.4-5.5	MR

Contd.

S.No	Genotype	P. RUST (1-5)		C.RUST (1-5)		C.ROT (1-9)		Av. Score	Range	Reaction
		MAND	Reaction	ARBH	Reaction	LUDH	HYDE			
49	RES. CHECK	1.8	R	-	-	-	2.2	2.2	2.2	R
50	SUS. CHECK	3.8	MS	-	-	7.3	5.9	6.6	5.9-7.3	MS

Resistant Check : P. RUST:- NITHYASHREE (MANDYA); C. ROT:- JCY 2-7 (HYDERABAD)

**Susceptible Check : P. RUST :-219J (MANDYA); C.RUST:- CM 202 (ARBHAVI); C. ROT:- CM 600 (LUDHIANA);
BML 6 (HYDERABAD)**

Contd.

S.No	Genotype	FSR (1-9)		SDM (%)		RDM(%)		
		UDAI	Reaction	MAND	COIM*	Reaction	UDAI	Reaction
QPMI-II-III								
1	BAU QMH-17	1.8	R	100.0	35.0	S	20.0	MR
2	BQPMH 18	2.4	R	100.0	27.5	S	18.0	MR
3	BQPMH 36	2.3	R	100.0	25.0	S	0.0	R
4	KDQH-49	3.0	R	100.0	25.0	S	64.0	S
5	LQPMH 114	1.6	R	100.0	45.0	S	0.0	R
6	LQPMH 214	2.4	R	100.0	27.5	S	42.0	MS
7	LQPMH 314	1.5	R	100.0	40.0	S	25.0	MR
8	OQPMH 11-6	2.8	R	100.0	57.5	S	0.0	R
9	VEHQ 11-1	2.3	R	100.0	20.0	S	27.0	MS
10	VEHQ 14-1	2.2	R	100.0	35.0	S	35.0	MS
11	DMRQPM1401	2.2	R	100.0	50.0	S	82.0	S
12	MMH QPM-6-12-13	2.1	R	100.0	40.0	S	63.0	S
13	HQPM1-C	3.7	MR	100.0	35.0	S	13.0	MR
14	HQPM4-C	2.0	R	100.0	75.0	S	17.0	MR
15	HQPM5-C	2.4	R	100.0	100.0	S	33.0	MS
16	Vivek QPM-9-C	6.6	MS	100.0	32.5	S	7.0	R
PC-I-II-III								
17	Pop corn (SCH)	6.7	MS	100.0	40.0	S	86.0	S
18	Bajaura Popcorn-2	8.1	HS	100.0	90.0	S	79.0	S
19	BPC 3	4.6	MR	100.0	50.0	S	83.0	S
20	BPCH 27	3.9	MR	100.0	12.5	S	75.0	S
21	KDPC-2	3.6	MR	100.0	10.5	S	86.0	S
22	DMRHP 1402	5.8	MS	100.0	47.5	S	64.0	S
23	VL Pop Corn-2	4.4	MR	100.0	40.0	S	78.0	S

Contd.

S.No	Genotype	FSR (1-9)		SDM (%)			RDM(%)	
		UDAI	Reaction	MAND	COIM*	Reaction	UDAI	Reaction
24	HPC 1	7.9	HS	100.0	62.5	S	64.0	S
25	VL Pop corn-C	5.0	MR	100.0	67.5	S	77.0	S
SC-I-II-III								
26	ADVSW -1	2.3	R	93.8	50.0	S	0.0	R
27	ADVSW -2	2.8	R	84.4	37.5	S	0.0	R
28	ASKH 1	2.9	R	100.0	37.5	S	12.0	MR
29	Bajaura Sweet Corn	3.6	MR	100.0	52.5	S	23.0	MR
30	Bisco MaDHAU	1.9	R	100.0	50.0	S	77.0	S
31	BSCH 6	5.8	MS	100.0	55.0	S	24.0	MR
32	BSCH 63	4.1	MR	100.0	37.5	S	0.0	R
33	FSCH 18	2.3	R	100.0	35.0	S	0.0	R
34	FSCH 41	2.6	R	95.5	47.5	S	0.0	R
35	FSCH 55	3.5	MR	100.0	42.5	S	72.0	S
36	KSCH-333	2.9	R	100.0	40.0	S	71.0	S
37	QMHSC-1182	3.7	MR	100.0	32.5	S	22.0	MR
38	SWC 001	2.3	R	60.0	32.5	S	0.0	R
39	MaDHAUri-C	3.3	MR	100.0	60.0	S	100.0	S
40	WOSC-C	3.8	MR	100.0	52.5	S	22.0	MR
BC-I-II-III								
41	ASKBH-1	3.8	MR	100.0	35.0	S	21.0	MR
42	BVM-2	3.3	MR	100.0	95.0	S	76.0	S
43	CMH 11-658	3.9	MR	NG	50.0	-	0.0	R
44	CMH 11-659	2.6	R	100.0	100.0	S	0.0	R
45	NP 5004	3.3	MR	100.0	30.0	S	73.0	S
46	NP 5040	3.6	MR	100.0	25.0	S	21.0	MR
47	Vivek Hybrid-27	1.5	R	100.0	35.0	S	11.0	MR
48	HM 4-C	2.2	R	100.0	35.0	S	50.0	MS

Contd.

S.No	Genotype	FSR (1-9)		SDM (%)		RDM(%)		
		UDAI	Reaction	MAND	COIM*	Reaction	UDAI	Reaction
49	RES. CHECK	8.4	S	7.5	0.0	R	-	-
50	SUS. CHECK	-	-	100.0	80.0	S	100.0	S

Resistant Check : SDM:- CoH6 (COIMBATORE)

Susceptible Check : FSR:- SURYA (UDAIPUR); SDM:-CM 500 (MANDYA); RDM:- SURYA (UDAIPUR)

* Data not considered due to low disease pressure

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
QPMI-II-III						
1	BAU QMH-17	6.3	20.0	13.1	6.3-20.0	MR
2	BQPMH 18	17.1	25.0	21.1	17.1-25.0	MR
3	BQPMH 36	53.6	37.5	45.5	37.5-53.6	MS
4	KDQH-49	51.9	37.5	44.7	37.5-51.9	MS
5	LQPMH 114	20.3	12.5	16.4	12.5-20.3	MR
6	LQPMH 214	54.5	25.0	39.8	25.0-54.5	MS
7	LQPMH 314	35.6	27.8	31.7	27.8-35.6	MS
8	OQPMH 11-6	50.0	25.0	37.5	25.0-50.0	MS
9	VEHQ 11-1	23.2	25.0	24.1	23.2-25.0	MR
10	VEHQ 14-1	68.3	12.5	40.4	12.5-68.3	MS
11	DMRQPM1401	65.7	50.0	57.9	50.0-65.7	S
12	MMH QPM-6-12-13	30.3	11.1	20.7	11.1-30.0	MR
13	HQPM1-C	48.1	20.0	34.0	20.0-48.1	MS
14	HQPM4-C	0.0	50.0	25.0	0.0-50.0	MR
15	HQPM5-C	16.4	0.0	8.2	0.0-16.4	R
16	Vivek QPM-9-C	36.7	75.0	55.8	36.7-75.0	S
PC-I-II-III						
17	Pop corn (SCH)	65.9	12.5	39.2	12.5-65.9	MS
18	Bajaura Popcorn-2	92.9	25.0	58.9	25.0-92.9	S
19	BPC 3	73.9	37.5	55.7	37.5-73.9	S
20	BPCH 27	58.3	37.5	47.9	37.5-58.3	MS
21	KDPC-2	53.9	25.0	39.4	25.0-53.9	MS
22	DMRHP 1402	52.7	45.5	49.1	45.5-52.7	MS
23	VL Pop Corn-2	95.0	56.3	75.7	56.3-95.0	S

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
24	HPC 1	31.0	12.5	21.7	12.5-31.0	MR
25	VL Pop corn-C	63.9	37.5	50.7	37.5-63.9	S
SC-I-II-III						
26	ADVSW -1	93.8	12.5	53.1	12.5-93.8	S
27	ADVSW -2	54.2	12.5	33.3	54.2-12.5	MS
28	ASKH 1	27.8	50.0	38.9	27.8-50.0	MS
29	Bajaura Sweet Corn	76.3	61.1	68.7	61.1-76.3	S
30	Bisco MaDHAU	40.7	50.0	45.3	40.7-50.0	MS
31	BSCH 6	69.0	12.5	40.8	12.5-69.0	MS
32	BSCH 63	63.1	33.3	48.2	33.3-63.1	MS
33	FSCH 18	56.3	25.0	40.7	25.0-56.3	MS
34	FSCH 41	81.6	50.0	65.8	50.0-81.6	S
35	FSCH 55	35.0	62.5	48.8	35.0-62.5	MS
36	KSCH-333	71.5	37.5	54.5	37.5-71.5	S
37	QMHSC-1182	79.8	50.0	64.9	50.0-79.8	S
38	SWC 001	23.0	0.0	11.5	0.0-23.0	MR
39	MaDHAUri-C	34.7	25.0	29.9	25.0-34.7	MS
40	WOSC-C	58.2	41.7	49.9	41.7-58.2	MS
BC-I-II-III						
41	ASKBH-1	55.0	0.0	27.5	0.0-55.0	MS
42	BVM-2	96.2	50.0	73.1	50.0-96.2	S
43	CMH 11-658	-	0.0	0.0	0	R
44	CMH 11-659	14.2	8.0	11.1	8.0-14.2	MR
45	NP 5004	91.7	37.5	64.6	37.5-91.7	S
46	NP 5040	83.3	25.0	54.2	25.0-83.3	S
47	Vivek Hybrid-27	46.9	0.0	23.4	0.0-46.9	MR
48	HM 4-C	50.0	25.0	37.5	25.0-50.0	MS

Contd.

Bacterial stalk rot score (%)						
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction
49	SUS. CHECK	81.8	37.5	59.7	37.5-81.8	S

Susceptible Check :BSR:- CM 600 (PANTNAGAR); DKC 7074 (DHAULAKUAN)

Contd.

S.No	Genotype	CLS (1-5)				Cyst/ plant (n = 5)		
		UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
QPMI-II-III								
1	BAU QMH-17	1.5	2.0	1.8	1.5-2.0	R	19--22	S
2	BQPMH 18	1.0	2.0	1.5	1.0-2.0	R	11--15	S
3	BQPMH 36	0.5	3.0	1.8	0.5-3.0	R	8--13	S
4	KDQH-49	1.0	2.0	1.5	1.0-2.0	R	18--24	S
5	LQPMH 114	1.5	2.0	1.8	1.5-2.0	R	16--20	S
6	LQPMH 214	3.0	1.0	2.0	1.0-3.0	R	12--17	S
7	LQPMH 314	1.5	2.0	1.8	1.5-2.0	R	15--21	S
8	OQPMH 11-6	3.5	3.0	3.3	3.0-3.5	MR	22--28	S
9	VEHQ 11-1	1.0	2.0	1.5	1.0-2.0	R	13--18	S
10	VEHQ 14-1	0.5	2.0	1.3	0.5-2.0	R	3--8	MR
11	DMRQPM1401	1.0	1.3	1.1	1.1-1.3	R	16--21	S
12	MMH QPM-6-12-13	0.0	1.3	0.6	0.0-1.3	R	13--17	S
13	HQPM1-C	2.0	2.0	2.0	2.0-2.0	R	7--10	S
14	HQPM4-C	1.5	2.0	1.8	1.5-2.0	R	9--12	S
15	HQPM5-C	1.5	2.0	1.8	1.5-2.0	R	18--23	S
16	Vivek QPM-9-C	2.0	3.0	2.5	2.0-3.0	MR	29--36	S
PC-I-II-III								
17	Pop corn (SCH)	2.5	3.0	2.8	2.5-3.0	MR	33--42	S
18	Bajaura Popcorn-2	2.0	3.0	2.5	2.0-3.0	MR	37--46	S
19	BPC 3	1.5	2.0	1.8	1.5-2.0	R	17--22	S
20	BPCH 27	1.0	3.0	2.0	1.0-3.0	R	28--33	S
21	KDPC-2	1.0	2.0	1.5	1.0-2.0	R	29--25	S
22	DMRHP 1402	1.5	2.0	1.8	1.5-2.0	R	16--19	S
23	VL Pop Corn-2	1.5	1.3	1.4	1.3-1.5	R	27--34	S

Contd.

S.No	Genotype	CLS (1-5)				Cyst/ plant (n = 5)		
		UDAI	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
24	HPC 1	2.0	1.3	1.6	1.3-2.0	R	25--32	S
25	VL Pop corn-C	1.5	3.0	2.3	1.5-3.0	MR	37--43	S
SC-I-II-III								
26	ADVSW -1	1.0	1.3	1.1	1.0-1.3	R	13--20	S
27	ADVSW -2	1.5	3.0	2.3	1.5-3.0	MR	11--17	S
28	ASKH 1	0.5	2.0	1.3	0.5-2.0	R	9--15	S
29	Bajaura Sweet Corn	3.5	3.0	3.3	3.0-3.5	MS	26--31	S
30	Bisco MaDHAU	2.5	2.0	2.3	2.0-2.5	MR	8--13	S
31	BSCH 6	0.5	2.0	1.3	0.5-2.0	R	14--18	S
32	BSCH 63	0.5	3.0	1.8	0.5-3.0	R	15--22	S
33	FSCH 18	0.5	2.0	1.3	0.5-2.0	R	17--25	S
34	FSCH 41	0.5	2.0	1.3	0.5-2.0	R	20--28	S
35	FSCH 55	0.5	3.0	1.8	0.5-3.0	R	13--18	S
36	KSCH-333	4.0	1.3	2.6	1.3-4.0	MR	21--30	S
37	QMHSC-1182	4.5	3.0	3.8	3.0-4.8	MS	30--35	S
38	SWC 001	3.5	2.0	2.8	2.0-3.5	MR	9--14	S
39	MaDHAUri-C	1.0	2.0	1.5	1.0-2.0	R	30--38	S
40	WOSC-C	2.0	3.0	2.5	2.0-3.0	MR	26--34	S
BC-I-II-III								
41	ASKBH-1	1.0	2.0	1.5	1.0-2.0	R	16--22	S
42	BVM-2	0.5	1.3	0.9	0.5-1.3	R	17--25	S
43	CMH 11-658	1.5	-	1.5	1.5	R	NG	NG
44	CMH 11-659	2.0	2.0	2.0	2.0-2.0	R	4--8	MR
45	NP 5004	2.0	2.0	2.0	2.0-2.0	R	24--32	S
46	NP 5040	0.0	2.0	1.0	0.0-2.0	R	20--27	S
47	Vivek Hybrid-27	1.5	2.0	1.8	1.5-2.0	R	14--23	S
48	HM 4-C	1.0	2.0	1.5	1.0-2.0	R	12--17	S

Contd.

S.No	Genotype	CLS (1-5)				Reaction	Cyst/ plant (n = 5)	
		UDAI	DHAU	Av. Score	Range		UDAI	Reaction
49	SUS. CHECK	4.5	2.0	3.3	2.0-4.5	MS	22--31	S

Susceptible Check :CLS:-SURYA (UDAIPUR); DKC 7074 (DHAULAKUAN);
 CYST NEMATODE:- PEEHM-5 (UDAIPUR)

Table 10. Disease screening of station maize hybrids against major diseases at Dhaulakuan

S No.	Code	BSR (%)	CLS (1-5)	BLSB (1-5)	MLB (1-5)
1	M 1401	41.7	2.0	2.5	3.0
2	M 1402	14.3	2.0	3.0	1.3
3	M 1403	16.7	1.3	2.5	1.3
4	M 1404	8.7	1.3	3.0	1.3
5	M 1405	14.3	1.3	2.5	1.3
6	M 1406	0.0	2.0	3.5	3.0
7	M 1407	31.6	1.3	4.0	3.0
8	M 1408	20.0	2.0	3.0	2.5
9	M 1409	20.0	1.3	3.5	2.0
10	M 1410	19.0	1.3	3.0	1.3
11	M 1411	4.8	3.0	2.5	4.0
12	M 1412	25.0	1.3	3.0	3.0
13	M 1413	31.6	3.0	3.0	3.0
14	M 1414	10.5	3.0	3.0	3.0
15	M 1415	16.7	2.5	3.0	3.0
16	M 1416	35.3	2.0	3.5	4.0
17	M 1417	30.3	2.0	3.5	4.0
18	M 1418	46.2	2.0	3.0	3.5
19	M 1419	33.3	3.0	3.5	4.0
20	M 1420	5.3	1.3	3.0	3.0
21	M 1421	9.1	1.0	2.0	3.0
22	M 1422	20.0	1.0	3.0	2.5
23	M 1423	0.0	1.0	4.0	2.5
24	M 1424	12.5	1.0	3.5	2.5
25	M 1425	11.8	2.0	4.0	4.0
26	M 1426	14.3	1.0	3.0	3.0
27	M 1427	26.3	1.0	3.0	3.0
SC	DAC 7074	40.0	2.5	3.0	2.0
SC	Local	25.0	2.0	3.0	4.0

Table 11. Diseases screening of maize inbred lines against major diseases of maize

S.No	Genotype	Maydis leaf blight score (1-5)					Av. Score	Range	Reaction
		DHOL	DELH	LUDH	DHAU	KARN			
1	HKI163	3.0	2.0	2.5	3.0	2.2	2.5	2.0-3.0	MR
2	HKI 193-1	NG	NG	NG	NG	1.4	1.4	1.4-1.4	R
3	HKI 1105	NG	NG	NG	NG	NG	NG	NG	-
4	HKI 1344	3.0	2.0	3.0	2.0	NG	2.5	2.0-3.0	MR
5	CM 212	5.0	3.0	4.0	4.0	3.2	3.8	3.0-5.0	MS
6	CM 117-3-2-1-1-1-2-1	3.0	2.5	2.5	3.0	2.6	2.7	2.5-3.0	MR
7	CM 129	5.0	3.0	4.0	4.0	3.2	3.8	3.0-5.0	MS
8	CM 132	5.0	1.5	3.5	4.0	3.4	3.5	1.5-5.0	MS
9	CM 501	3.0	2.0	2.0	4.0	3.2	2.8	2.0-4.0	MR
10	CM 502	4.0	3.0	2.5	3.0	4.2	3.3	2.0-4.2	MS
11	CM 105	3.0	2.0	2.0	4.0	NG	2.8	2.0-4.0	MR
12	CM 123	3.0	2.5	2.5	4.0	2.2	2.8	2.2-4.0	MR
13	CM 128	4.0	2.0	2.5	2.0	2.2	2.5	2.0-4.0	MR
14	CM 149	2.0	2.0	2.0	4.0	3.2	2.6	2.0-4.0	MR
15	CML 451(P2)	4.0	3.0	3.0	4.0	2.2	3.2	2.2-4.0	MS
16	CML 446	3.0	2.0	NG	1.3	1.4	1.9	1.3-3.0	R
17	CUBA 377	1.0	2.0	2.0	1.0	1.4	1.5	1.0-2.0	R
18	IIMR QPM-03-124	NG	NG	NG	NG	1.4	1.4	1.4-1.4	R
19	IIMRQPM 03-113	2.0	3.0	NG	3.0	2.2	2.6	2.0-3.0	MR
20	DMSC 20	NG	3.5	4.0	3.0	3.2	3.4	3.0-3.5	MS
21	DMSC 36	3.0	2.5	4.0	3.0	3.2	3.1	2.5-4.0	MS
22	DMSC 1	4.0	2.5	3.5	3.0	2.2	3.0	2.2-4.0	MR
23	DMSC 6	NG	2.5	4.0	2.0	1.4	2.5	1.4-4.0	MR
24	DMSC 8	NG	3.5	NG	4.0	2.2	2.4	2.2-4.0	MR

Contd.

S.No	Genotype	Maydis leaf blight score (1-5)					Av. Score	Range	Reaction
		DHOL	DELH	LUDH	DHAU	KARN			
25	HKI 1040-11-7	4.0	2.5	2.5	3.0	2.2	2.8	2.2-4.0	MR
26	HKI 1128	3.0	1.5	4.0	3.0	2.2	2.7	1.5-4.0	MR
27	HKI 164-7-6 x 161	2.0	1.5	2.5	3.0	1.4	2.0	1.4-3.0	R
28	HKI 164-D-3-3-2	1.0	2.0	2.5	4.0	2.6	2.4	1.0-4.0	MR
29	HKI 193-2-2-1	2.0	2.5	3.0	4.0	2.2	2.7	2.0-4.0	MR
30	HKI 226	NG	NG	NG	3.0	1.4	2.2	1.4-3.0	MR
31	HKI 31-2	2.0	2.0	2.5	3.0	2.0	2.3	2.0-3.0	MR
32	HKI 323	NG	NG	NG	NG	1.4	1.4	0.0-1.4	R
33	HKI Talar	NG	NG	2.0	2.0	1.4	1.8	1.4-2.0	R
34	HKI-2-6-2-4(1-2)-4	1.0	3.0	3.0	3.0	2.0	2.4	1.0-3.0	MR
35	HKIMBR 139-2	2.0	2.5	2.5	3.0	2.4	2.5	2.0-3.0	MR
36	HYD05R/204-1	1.0	2.0	2.0	3.0	1.4	1.9	1.0-3.0	R
37	JCY 2-7-2-1-1-B-1-2-1-1	1.0	2.0	2.0	3.0	2.4	2.0	1.0-3.0	R
38	JCY-3-7-1-2-1-B-2-3-2-1-3-2	NG	2.0	2.5	3.0	2.4	2.5	2.0-3.0	MR
39	POBLAC61C4	3.0	2.5	2.0	3.0	2.4	2.6	2.0-3.0	MR
40	SHD-1 ER6	5.0	3.5	4.0	4.0	1.4	3.6	1.4-5.0	MS
41	SKV 18	4.0	4.0	3.0	4.0	1.6	3.3	1.6-4.0	MS
42	Temp.HOC 15	4.0	3.5	4.5	4.0	2.0	3.6	2.0-4.5	MS
43	WS KHOTHAI-1-WAXY-1-1	5.0	2.5	3.0	4.0	3.2	3.5	2.5-5.0	MS
44	EI 670	2.0	2.0	2.0	3.0	3.0	2.4	2.0-3.0	MR
45	EI 708	2.0	2.5	2.5	4.0	4.0	3.0	2.0-4.0	MR
46	EI 561	NG	3.5	2.0	1.3	3.4	2.6	1.3-3.5	MR
47	BML13	2.0	2.5	2.5	2.0	2.0	2.2	2.0-2.5	MR
48	BML15	1.0	3.5	3.0	4.0	1.6	2.6	1.0-3.5	MR
49	BML 8	3.0	2.0	2.0	3.0	3.0	2.6	2.0-3.0	MR

Contd.

S.No	Genotype	Maydis leaf blight score (1-5)					Av. Score	Range	Reaction
		DHOL	DELH	LUDH	DHAU	KARN			
50	CM 111	4.0	2.0	4.5	2.0	2.6	3.0	2.0-4.5	MR
51	CM 115	4.0	2.5	3.0	4.0	3.0	3.3	2.5-4.0	MS
52	CM 119	4.0	3.0	3.0	4.0	2.6	3.3	2.6-4.0	MS
53	CM 130	4.0	3.5	2.0	4.0	3.2	3.3	2.0-4.0	MS
54	CM 145	2.0	3.0	2.0	3.0	2.0	2.4	2.0-3.0	MR
55	CM 202	4.0	2.0	2.5	3.0	1.4	2.6	1.4-4.0	MR
56	CM 500	4.0	2.5	NG	1.3	2.6	2.5	1.3-4.0	MR
57	CML 451Q	2.0	2.0	3.5	3.0	3.2	2.7	2.0-3.5	MR
58	CML 44	2.0	2.0	2.5	3.0	2.6	2.4	2.0-3.0	MR
59	CML 117-3-4-1-1-4-1	3.0	2.0	2.5	2.0	1.6	2.2	1.6-3.0	MR
60	CML161	4.0	2.5	3.0	3.0	2.8	3.0	2.5-4.0	MR
61	CML165	4.0	2.0	2.0	3.0	3.2	2.8	2.0-4.0	MR
62	CML175	4.0	-	NG	4.0	3.2	3.7	3.2-4.0	MS
63	CML 287	2.0	3.5	3.5	3.0	1.6	2.7	1.6-3.5	MR
64	CML 3	2.0	2.5	3.0	4.0	2.0	2.7	2.0-4.0	MR
65	CML 321	2.0	1.5	2.5	4.0	3.2	2.6	1.5-4.0	MR
66	CML 33	5.0	2.0	2.0	2.0	2.8	2.8	2.0-5.0	MR
67	IIMRQPM 58	2.0	2.0	3.5	4.0	2.8	2.9	2.0-4.0	MR
68	DMSC 16-1	2.0	2.0	2.0	2.0	2.8	2.2	2.0-2.8	MR
69	DTPWC 9-F31-1-1-3	2.0	2.0	2.5	1.3	2.8	2.1	1.3-2.8	MR
70	G18seqcef 74-2-1	5.0	2.5	2.0	4.0	2.4	3.2	2.0-5.0	MS
71	Gen 6033	NG	2.0	2.5	2.5	3.2	2.6	2.0-3.2	MR
72	HKI 141	NG	2.5	2.0	2.0	3.2	2.4	2.0-3.2	MR
73	HKI 164-3 (2-1)-1	3.0	3.0	3.5	3.0	2.6	3.0	2.6-3.5	MR
74	HKI 586-1 WG'33	3.0	2.5	3.5	4.0	2.0	3.0	2.0-3.5	MR

Contd.

S.No	Genotype	Maydis leaf blight score (1-5)					Av. Score	Range	Reaction
		DHOL	DELH	LUDH	DHAU	KARN			
75	HKI C 322	2.0	2.0	3.0	3.0	2.2	2.4	2.0-3.0	MR
76	HKI PC8	3.0	1.5	2.5	1.0	2.0	2.0	1.0-3.0	R
77	HKI 141	2.0	3.0	2.5	3.0	1.4	2.4	1.4-3.0	MR
78	HKI 164—4(1-3)	5.0	3.5	3.0	4.0	2.0	3.5	2.0-5.0	MS
79	HKI-164-7-4-2	5.0	2.5	2.0	2.0	1.6	2.6	1.6-5.0	MR
80	HKI 191-1-2-5	5.0	2.0	2.0	1.0	2.0	2.4	1.0-5.0	MR
81	HKI-484-5	2.0	1.5	2.5	3.0	1.4	2.0	1.4-3.0	R
82	HKIC 78	2.0	3.5	1.5	3.0	2.0	2.4	1.5-3.0	MR
83	HKISCST	4.0	4.0	2.0	4.0	2.0	3.2	2.0-4.0	MS
84	ITNA 04	4.0	3.0	2.5	4.0	1.4	3.0	1.4-4.0	MR
85	JCY 2-2-4-1-1	1.0	3.0	1.5	3.0	2.0	2.1	1.0-3.0	MR
86	KML 3-3	2.0	3.0	2.0	4.0	2.0	2.6	2.0-4.0	MR
87	La Posta Seq C 7-F10-3-1-2-3-B-B-B-B-B-B	4.0	3.5	4.5	4.0	3.6	3.9	3.5-4.5	MS
88	LM 5	3.0	1.5	2.0	3.0	1.6	2.2	1.5-3.0	MR
89	P 390AM/CMLC4F230-B-2-1	2.0	2.0	4.0	4.0	2.0	2.8	2.0-4.0	MR
90	P 3C45SB-33-##-11	-	2.0	3.0	3.0	3.0	2.8	2.0-3.0	MR
91	P 72c1Xbrasil1177-2	4.0	2.5	3.5	3.0	3.0	3.2	2.5-4.0	MS
92	SC 24-(C12)-3-2-1-1	4.0	3.5	4.0	4.0	3.2	3.7	3.2-4.0	MS
93	SC 7-2-1-2-6-1	3.0	2.0	3.5	4.0	3.6	3.2	2.0-4.0	MS
94	Tempx Trop(H0)QPM-B-B-B-57-B-B	2.0	2.0	2.0	2.0	1.6	1.9	1.6-2.0	R
95	TS2TR 1107	2.0	2.5	2.0	2.0	2.2	2.1	2.0-2.5	MR
96	V 334	4.0	2.0	2.0	3.0	2.6	2.7	2.0-4.0	MR
97	WINPOP 2	4.0	5.0	2.5	4.0	2.6	3.6	2.5-5.0	MS
98	WINPOP-43	4.0	3.0	2.0	2.0	4.0	3.0	2.0-4.0	MR

Contd.

		Maydis leaf blight score (1-5)								
S.No	Genotype	DHOL	DELH	LUDH	DHAU	KARN	Av. Score	Range	Reaction	
99	WSCShrunken X MUS MADHAU	NG	3.0	4.0	4.0	2.6	3.4	2.6-4.0	MS	
100	Resistant Check	NG	2.0	2.0	NG	1.4	1.8	1.4-4.0	MR	
101	Susceptible check	5.0	5.0	4.5	4.0	4.4	4.6	4.0-5.0	S	

Resistant Check : MLB:- HQPM 1 (KARNAL); SC7 (DELHI); LET DR 99xEnt49 (LUDHIANA)

**Susceptible Check : MLB:- CM600 (DHOLI); HKI 1105 + HKI 536CBT (KARNAL); CM 600(LUDHIANA);
CM600 (DHAULAKUAN); CM 600 (DELHI)**

Contd.

S.No	Genotype	Turcium leaf bilght score (1-5)				Av. Score	Range	Reaction
		BAJA	ALMO	MAND	ARBH			
1	HKI163	3.5	3.0	4.0	5.0	3.9	3.0-5.0	MS
2	HKI 193-1	NG	1.5	4.5	3.0	3.0	1.5-4.5	MR
3	HKI 1105	NG	NG	4.5	4.0	4.3	4.0-4.5	S
4	HKI 1344	3.5	2.0	3.5	5.0	3.5	2.0-5.0	MS
5	CM 212	3.5	NG	3.5	5.0	4.0	3.5-5.0	MS
6	CM 117-3-2-1-1-1-2-1	3.0	2.0	3.0	3.0	2.8	2.0-3.0	MR
7	CM 129	3.5	1.5	3.0	5.0	3.3	1.5-5.0	MS
8	CM 132	2.0	2.0	3.0	4.0	2.8	2.0-4.0	MR
9	CM 501	1.5	2.0	3.5	4.0	2.8	1.5-4.0	MR
10	CM 502	1.5	1.5	3.0	4.0	2.5	1.5-4.0	MR
11	CM 105	2.0	2.0	3.0	3.0	2.5	2.0-3.0	MR
12	CM 123	1.5	2.5	3.0	5.0	3.0	1.5-5.0	MR
13	CM 128	2.0	2.0	3.5	5.0	3.1	2.0-5.0	MS
14	CM 149	2.0	1.5	4.0	3.0	2.6	1.5-4.0	MR
15	CML 451(P2)	5.0	2.0	3.0	5.0	3.8	2.0-5.0	MS
16	CML 446	2.0	2.0	3.0	4.0	2.8	2.0-4.0	MR
17	CUBA 377	2.5	2.0	4.5	3.0	3.0	2.0-4.5	MR
18	IIMR QPM-03-124	NG	NG	3.5	5.0	4.3	3.5-5.0	S
19	IIMRQPM 03-113	4.5	1.5	3.0	5.0	3.5	1.5-5.0	MS
20	DMSC 20	5.0	2.5	3.0	5.0	3.9	2.5-5.0	MS
21	DMSC 36	5.0	3.0	3.0	5.0	4.0	3.0-5.0	MS
22	DMSC 1	3.0	2.0	3.0	5.0	3.3	2.0-5.0	MS
23	DMSC 6	2.5	2.0	3.0	4.0	2.9	2.0-4.0	MR
24	DMSC 8	4.0	2.5	3.0	5.0	3.6	2.5-5.0	MS

Contd.

S.No	Genotype	Turcium leaf bilght score (1-5)				Av. Score	Range	Reaction
		BAJA	ALMO	MAND	ARBH			
25	HKI 1040-11-7	4.5	4.0	3.0	5.0	4.1	3.0-5.0	S
26	HKI 1128	4.0	3.5	2.5	5.0	3.8	2.5-4.5	MS
27	HKI 164-7-6 x 161	3.5	2.0	3.0	4.0	3.1	2.0-4.0	MS
28	HKI 164-D-3-3-2	2.0	2.0	3.0	3.0	2.5	2.0-3.0	MR
29	HKI 193-2-2-1	1.5	2.0	3.0	3.0	2.4	1.5-3.0	MR
30	HKI 226	NG	NG	2.5	2.0	2.3	2.0-2.5	MR
31	HKI 31-2	2.5	2.0	3.0	-	2.5	2.0-3.0	MR
32	HKI 323	NG	NG	3.0	4.0	3.5	3.0-4.0	MS
33	HKI Talar	2.5	2.5	3.0	4.0	3.0	2.5-4.0	MR
34	HKI-2-6-2-4(1-2)-4	2.0	2.0	2.5	4.0	2.6	2.0-4.0	MR
35	HKIMBR 139-2	1.0	2.5	3.0	4.0	2.6	1.0-4.0	MR
36	HYD05R/204-1	1.0	2.0	3.5	3.0	2.4	1.0-3.5	MR
37	JCY 2-7-2-1-1-B-1-2-1-1	1.5	2.5	4.0	3.0	2.8	1.5-4.0	MR
38	JCY-3-7-1-2-1-B-2-3-2-1-3-2	1.5	2.0	4.0	-	2.5	1.5-4.0	MR
39	POBLAC61C4	1.0	1.5	4.0	2.0	2.1	1.0-4.0	MR
40	SHD-1 ER6	NG	NG	4.5	5.0	4.8	4.5-5.0	S
41	SKV 18	1.5	1.5	2.5	4.0	2.4	1.5-4.0	MR
42	Temp.HOC 15	1.5	1.5	2.5	3.0	2.1	1.5-3.0	MR
43	WS KHOTHAI-1-WAXY-1-1	2.0	1.5	3.0	5.0	2.9	1.5-5.0	MR
44	EI 670	2.0	2.0	2.5	3.0	2.4	2.0-3.0	MR
45	EI 708	2.0	1.5	3.0	4.0	2.6	1.5-4.0	MR
46	EI 561	2.0	1.5	3.5	5.0	3.0	1.5-5.0	MR
47	BML13	2.0	2.5	3.0	4.0	2.9	2.0-4.0	MR
48	BML15	2.0	2.5	3.0	2.0	2.4	2.0-3.0	MR
49	BML 8	2.5	3.5	2.5	4.0	3.1	2.5-4.0	MS

Contd.

S.No	Genotype	Turcium leaf blight score (1-5)				Av. Score	Range	Reaction
		BAJA	ALMO	MAND	ARBH			
50	CM 111	2.5	2.0	3.0	5.0	3.1	2.0-5.0	MS
51	CM 115	2.0	2.0	2.5	5.0	2.9	2.0-5.0	MR
52	CM 119	2.0	3.0	4.0	5.0	3.5	2.0-5.0	MS
53	CM 130	2.0	3.5	4.0	5.0	3.6	2.0-5.0	MS
54	CM 145	2.0	2.0	3.5	5.0	3.1	2.0-5.0	MS
55	CM 202	3.0	2.0	3.0	4.0	3.0	2.0-4.0	MR
56	CM 500	2.5	2.0	4.0	3.0	2.9	2.0-4.0	MR
57	CML 451Q	2.0	2.0	3.0	3.0	2.5	2.0-3.0	MR
58	CML 44	1.5	2.0	3.5	3.0	2.5	1.5-3.5	MR
59	CML 117-3-4-1-1-4-1	2.0	3.5	3.0	2.0	2.6	2.0-3.5	MR
60	CML161	2.0	2.5	3.5	3.0	2.8	2.0-3.5	MR
61	CML165	1.5	3.5	3.0	4.0	3.0	1.5-4.0	MR
62	CML175	NG	NG	4.0	2.0	3.0	2.0-4.0	MR
63	CML 287	2.0	2.5	4.0	4.0	3.1	2.0-4.0	MS
64	CML 3	2.5	2.0	4.0	5.0	3.4	2.0-5.0	MS
65	CML 321	2.5	2.0	3.5	4.0	3.0	2.0-4.0	MR
66	CML 33	2.5	2.0	3.5	3.0	2.8	2.0-3.5	MR
67	IIMRQPM 58	5.0	4.0	3.5	5.0	4.4	3.5-5.0	S
68	DMSC 16-1	2.0	2.0	3.0	3.0	2.5	2.0-3.0	MR
69	DTPWC 9-F31-1-1-3	1.5	2.0	3.5	3.0	2.5	1.5-3.5	MR
70	G18seqcef 74-2-1	2.0	2.0	3.5	2.0	2.4	2.0-3.5	MR
71	Gen 6033	2.0	2.0	3.0	3.0	2.5	2.0-3.0	MR
72	HKI 141	2.0	2.0	3.0	3.0	2.5	2.0-3.0	MR
73	HKI 164-3 (2-1)-1	2.0	2.0	3.5	4.0	2.9	2.0-4.0	MR
74	HKI 586-1 WG'33	2.5	2.0	3.0	5.0	3.1	2.0-5.0	MS

Contd.

S.No	Genotype	Turcium leaf blight score (1-5)				Av. Score	Range	Reaction
		BAJA	ALMO	MAND	ARBH			
75	HKI C 322	2.5	2.0	3.5	3.0	2.8	2.0-3.5	MR
76	HKI PC8	2.0	2.0	4.0	2.0	2.5	2.0-4.0	MR
77	HKI 141	2.0	2.0	3.0	3.0	2.5	2.0-3.0	MR
78	HKI 164—4(1-3)	1.5	1.0	4.5	3.0	2.5	1.0-4.5	MR
79	HKI-164-7-4-2	2.5	1.5	4.0	3.0	2.8	1.5-4.0	MR
80	HKI 191-1-2-5	2.5	1.5	4.0	4.0	3.0	1.5-4.0	MR
81	HKI-484-5	2.5	1.5	3.5	4.0	2.9	1.5-4.0	MR
82	HKIC 78	2.0	1.5	3.0	3.0	2.4	1.5-3.0	MR
83	HKISCST	2.5	NG	3.5	5.0	3.7	2.5-5.0	MS
84	ITNA 04	3.5	2.0	4.5	5.0	3.8	2.0-5.0	MS
85	JCY 2-2-4-1-1	2.0	1.5	3.5	3.0	2.5	1.5-3.5	MR
86	KML 3-3	2.0	2.0	4.0	4.0	3.0	2.0-4.0	MR
87	La Posta Seq C 7-F10-3-1-2-3-B-B-B-B-B-B	2.0	1.5	3.5	4.0	2.8	1.5-4.0	MR
88	LM 5	3.5	2.0	4.0	3.0	3.1	2.0-4.0	MS
89	P 390AM/CMLC4F230-B-2-1	4.0	2.5	5.0	5.0	4.1	2.5-5.0	S
90	P 3C45SB-33-##-11	3.0	2.0	3.5	5.0	3.4	2.0-5.0	MS
91	P 72c1Xbrasil1177-2	3.5	3.5	3.0	3.0	3.3	3.0-3.5	MS
92	SC 24-(C12)-3-2-1-1	2.0	2.0	5.0	5.0	3.5	2.0-5.0	MS
93	SC 7-2-1-2-6-1	2.0	3.0	4.0	5.0	3.5	2.0-5.0	MS
94	Tempx Trop(H0)QPM-B-B-B-57-B-B	2.0	2.5	4.5	2.0	2.8	2.0-4.5	MR
95	TS2TR 1107	2.5	2.5	4.0	3.0	3.0	2.5-4.0	MR
96	V 334	2.5	2.0	3.0	4.0	2.9	2.0-4.0	MR
97	WINPOP 2	2.5	2.0	3.0	4.0	2.9	2.0-4.0	MR
98	WINPOP-43	2.5	2.5	3.5	3.0	2.9	2.0-3.5	MR

Contd.

		Turcium leaf bilght score (1-5)							
S.No	Genotype	BAJA	ALMO	MAND	ARBH	Av. Score	Range	Reaction	
99	WSCShrunken X MUS MADHAU	2.5	2.0	4.0	5.0	3.4	2.0-5.0	MS	
100	Susceptible check	2.0	3.0	3.5	5.0	3.4	2.0-5.0	MS	

Susceptible Check : TLB:- CM 202 (**BAJAURA**); DHYARI LOCAL (**ALMORA**); 219J (**MANDYA**);
CM202 (**ARBHAVI**)

Contd.

S.No	Genotype	Banded leaf and sheath blight score (1-5)					Av. Score	Range	Reaction
		DELH	KARN	PANT	DHAU	BHUB			
1	HKI163	4.0	4.0	4.0	3.0	3.0	3.6	3.0-4.0	MS
2	HKI 193-1	NG	4.0	3.5	NG	2.5	3.3	2.5-4.0	MS
3	HKI 1105	NG	NG	NG	NG	2.0	2.0	0.0-2.0	R
4	HKI 1344	4.0	NG	5.0	2.5	2.0	3.4	2.0-5.0	MS
5	CM 212	4.0	3.4	5.0	3.0	1.0	3.3	1.0-5.0	MS
6	CM 117-3-2-1-1-1-2-1	4.0	1.4	5.0	3.0	2.0	3.0	1.4-5.0	MR
7	CM 129	5.0	2.2	5.0	3.5	2.0	3.5	2.0-5.0	MS
8	CM 132	4.0	1.6	5.0	3.5	3.5	3.5	1.6-5.0	MS
9	CM 501	4.0	3.2	3.0	3.0	3.5	3.3	3.0-4.0	MS
10	CM 502	4.5	2.4	5.0	3.0	2.0	3.4	2.0-5.0	MS
11	CM 105	4.0	NG	5.0	3.0	1.0	3.3	1.0-5.0	MS
12	CM 123	3.5	3.4	5.0	3.0	2.0	3.4	2.0-5.0	MS
13	CM 128	4.0	1.6	5.0	3.5	2.5	3.3	1.6-5.0	MS
14	CM 149	3.5	3.8	4.0	3.0	2.5	3.4	2.5-4.0	MS
15	CML 451(P2)	4.5	4.0	5.0	3.0	2.0	3.7	2.0-5.0	MS
16	CML 446	3.0	3.6	4.5	2.0	2.0	3.0	2.0-4.5	MR
17	CUBA 377	3.5	3.4	4.0	2.5	2.5	3.2	2.5-4.0	MS
18	IIMR QPM-03-124	4.0	3.4	5.0	NG	2.5	3.7	2.5-5.0	MS
19	IIMRQPM 03-113	4.5	1.6	5.0	NG	3.0	3.5	1.6-5.0	MS
20	DMSC 20	4.0	2.4	4.5	3.0	1.5	3.0	1.5-4.5	MR
21	DMSC 36	4.0	2.2	5.0	4.0	1.0	3.2	1.0-5.0	MS
22	DMSC 1	4.0	1.4	4.0	4.0	1.0	2.9	1.0-4.0	MR
23	DMSC 6	NG	1.4	NG	4.0	2.0	2.5	1.4-4.0	MR
24	DMSC 8	4.0	1.4	5.0	2.5	3.5	3.3	1.4-5.0	MS

Contd.

S.No	Genotype	Banded leaf and sheath blight score (1-5)					Av. Score	Range	Reaction
		DELH	KARN	PANT	DHAU	BHUB			
25	HKI 1040-11-7	5.0	2.4	5.0	2.5	2.5	3.5	2.4-5.0	MS
26	HKI 1128	3.5	3.4	5.0	1.5	2.5	3.2	1.5-5.0	MS
27	HKI 164-7-6 x 161	3.5	4.4	3.0	3.0	3.5	3.5	3.0-4.4	MS
28	HKI 164-D-3-3-2	3.0	3.4	4.0	1.5	2.0	2.8	1.5-4.0	MR
29	HKI 193-2-2-1	4.0	2.4	4.5	3.0	2.0	3.2	2.0-4.5	MS
30	HKI 226	4.0	3.4	4.0	2.5	3.5	3.5	2.5-4.0	MS
31	HKI 31-2	3.0	3.4	4.5	2.5	3.5	3.4	2.5-4.5	MS
32	HKI 323	3.0	1.4	NG	NG	2.0	2.1	1.4-3.0	MR
33	HKI Talar	-	1.4	4.0	2.0	2.5	2.5	1.4-4.0	MR
34	HKI-2-6-2-4(1-2)-4	NG	2.4	5.0	2.0	2.0	3.0	2.0-5.0	MR
35	HKIMBR 139-2	4.5	4.4	4.0	2.5	2.0	3.5	2.0-4.5	MS
36	HYD05R/204-1	3.5	4.4	3.5	2.5	1.5	3.0	1.5-4.4	MR
37	JCY 2-7-2-1-1-B-1-2-1-1	3.5	3.4	3.5	3.0	1.0	2.9	1.0-3.5	MR
38	JCY-3-7-1-2-1-B-2-3-2-1-3-2	3.5	3.4	4.0	3.0	3.0	3.4	3.0-4.0	MS
39	POBLAC61C4	3.0	1.4	5.0	2.5	2.5	2.9	1.4-5.0	MR
40	SHD-1 ER6	NG	1.4	5.0	3.0	2.0	2.9	1.4-5.0	MR
41	SKV 18	4.0	1.4	3.5	2.5	2.5	2.8	1.4-4.0	MR
42	Temp.HOC 15	4.0	2.4	5.0	3.0	3.5	3.6	2.4-5.0	MS
43	WS KHOTHAI-1-WAXY-1-1	4.0	2.4	5.0	3.0	3.0	3.5	2.4-5.0	MS
44	EI 670	3.0	2.4	4.0	2.5	2.0	2.8	2.0-4.0	MR
45	EI 708	4.0	2.4	5.0	3.0	2.0	3.3	2.0-5.0	MS
46	EI 561	4.0	1.4	5.0	3.0	1.0	2.9	1.0-5.0	MR
47	BML13	2.5	2.4	3.5	3.0	3.0	2.9	2.4-3.5	MR
48	BML15	3.0	3.4	5.0	4.0	3.5	3.8	3.0-5.0	MS
49	BML 8	3.0	3.4	3.0	2.5	3.0	3.0	2.5-3.4	MR

Contd.

S.No	Genotype	Banded leaf and sheath blight score (1-5)					Av. Score	Range	Reaction
		DELH	KARN	PANT	DHAU	BHUB			
50	CM 111	4.5	4.4	5.0	3.0	2.0	3.8	2.0-5.0	MS
51	CM 115	3.5	4.4	3.5	2.5	3.5	3.5	2.5-4.4	MS
52	CM 119	4.0	2.4	5.0	2.0	2.0	3.0	2.0-5.0	MR
53	CM 130	4.0	2.4	5.0	3.0	2.0	3.3	2.0-5.0	MS
54	CM 145	5.0	1.4	5.0	3.0	1.5	3.2	1.4-5.0	MS
55	CM 202	3.0	3.4	5.0	3.0	1.5	3.2	1.5-5.0	MS
56	CM 500	3.5	1.4	5.0	2.5	1.0	2.7	1.0-5.0	MR
57	CML 451Q	3.5	3.4	3.5	2.5	1.5	2.9	1.5-3.5	MR
58	CML 44	3.0	4.4	4.0	3.0	3.0	3.5	3.0-4.4	MS
59	CML 117-3-4-1-1-4-1	2.0	3.4	3.0	2.5	2.0	2.6	2.0-3.4	MR
60	CML161	4.0	2.4	5.0	4.0	2.0	3.5	2.0-5.0	MS
61	CML165	3.5	1.4	5.0	1.5	1.5	2.6	1.5-5.0	MR
62	CML175	-	2.4	-	3.0	1.5	2.3	1.5-3.0	MR
63	CML 287	4.0	2.4	5.0	2.5	3.0	3.4	2.5-5.0	MS
64	CML 3	4.5	2.4	4.0	3.0	2.5	3.3	2.4-4.5	MS
65	CML 321	3.0	2.4	3.5	2.5	2.0	2.7	2.0-3.5	MR
66	CML 33	3.0	3.4	4.0	3.0	4.0	3.5	3.0-4.0	MS
67	IIMRQPM 58	4.0	4.4	5.0	4.0	2.0	3.9	2.0-5.0	MS
68	DMSC 16-1	2.5	4.4	5.0	3.0	2.0	3.4	2.0-5.0	MS
69	DTPWC 9-F31-1-1-3	4.0	3.4	4.0	3.0	2.5	3.4	2.5-4.0	MS
70	G18seqcef 74-2-1	3.0	4.4	5.0	3.0	2.5	3.6	2.5-5.0	MS
71	Gen 6033	3.0	5.0	5.0	3.5	3.0	3.9	3.0-5.0	MS
72	HKI 141	4.0	1.4	5.0	3.0	3.0	3.3	1.4-5.0	MS
73	HKI 164-3 (2-1)-1	3.0	4.4	5.0	2.5	3.5	3.7	2.5-5.0	MS
74	HKI 586-1 WG'33	4.0	3.4	3.5	3.5	2.0	3.3	2.0-4.0	MS

Contd.

S.No	Genotype	Banded leaf and sheath blight score (1-5)					Av. Score	Range	Reaction
		DELH	KARN	PANT	DHAU	BHUB			
75	HKI C 322	3.5	4.4	4.0	4.0	3.5	3.9	3.5-4.4	MS
76	HKI PC8	3.0	4.4	4.0	3.5	4.5	3.9	3.0-4.4	MS
77	HKI 141	3.5	5.0	5.0	2.5	2.0	3.6	2.0-5.0	MS
78	HKI 164—4(1-3)	4.0	5.0	4.0	4.0	3.0	4.0	3.0-5.0	MS
79	HKI-164-7-4-2	3.5	3.4	3.5	2.0	3.0	3.0	2.0-3.5	MR
80	HKI 191-1-2-5	3.0	3.4	4.0	2.5	2.0	3.0	2.0-4.0	MR
81	HKI-484-5	-	2.4	4.0	3.0	2.5	3.0	2.4-4.0	MR
82	HKIC 78	3.5	3.4	3.5	3.5	2.5	3.3	2.5-3.5	MS
83	HKISCST	4.5	5.0	5.0	4.0	3.5	4.4	3.5-5.0	S
84	ITNA 04	4.0	2.4	5.0	2.0	3.0	3.3	2.0-5.0	MS
85	JCY 2-2-4-1-1	3.5	3.4	3.5	2.0	2.5	3.0	2.0-3.5	MR
86	KML 3-3	3.0	3.4	5.0	2.0	2.5	3.2	2.0-5.0	MS
87	La Posta Seq C 7-F10-3-1-2-3-B-B-B-B-B	4.0	3.4	5.0	3.5	2.5	3.7	2.5-5.0	MS
88	LM 5	3.5	2.4	3.0	3.0	2.5	2.9	2.4-3.5	MR
89	P 390AM/CMLC4F230-B-2-1	4.0	4.4	3.5	3.0	3.0	3.6	3.0-4.4	MS
90	P 3C45SB-33-##-11	4.0	3.4	5.0	3.0	3.0	3.7	3.0-5.0	MS
91	P 72c1Xbrasil1177-2	3.0	2.4	3.5	3.0	2.0	2.8	2.0-3.5	MR
92	SC 24-(C12)-3-2-1-1	4.5	4.4	5.0	4.0	4.0	4.4	4.0-5.0	MS
93	SC 7-2-1-2-6-1	4.0	3.4	4.5	2.0	2.5	3.3	2.0-4.5	MS
94	Tempx Trop(H0)QPM-B-B-B-57-B-B	3.5	2.4	3.5	3.5	3.0	3.2	2.4-3.5	MS
95	TS2TR 1107	4.0	4.4	3.5	1.5	2.0	3.0	1.5-4.4	MR
96	V 334	3.5	3.4	3.5	2.5	2.5	3.0	2.5-3.5	MR
97	WINPOP 2	4.0	1.4	5.0	3.0	3.0	3.3	1.4-5.0	MS
98	WINPOP-43	3.0	4.4	4.0	3.0	3.5	3.6	3.0-4.4	MS

Contd.

		Banded leaf and sheath blight score (1-5)							
S.No	Genotype	DELH	KARN	PANT	DHAU	BHUB	Av. Score	Range	Reaction
99	WSCShrunken X MUS MADHAU	4.0	4.4	5.0	3.0	2.0	3.7	2.0-5.0	MS
100	Resistant Check	NG	1.8	NG	NG	NG	1.8	1.8-1.8	R
101	Susceptible check	4.5	4.4	5.0	4.0	3.5	4.3	3.5-5.0	S

Resistant Check : BLSB:- HQPM 1 (KARNAL)

**Susceptible Check : BLSB:- AMAR (PANTNAGAR); CML 186 (DHAULAKUAN); CM501 (DELHI);
NK 30 (BHUBNESWAR); HKI 1105+ HKI 536CBT (KARNAL)**

Contd.

S.No	Genotype	Sorghum downy mildew score (%)							
		P. RUST (1-5)		C. RUST (1-5)		Sorghum downy mildew score (%)			
		MAND	Reaction	ARBH	Reaction	MAND	COIM	Reaction	
1	HKI163	3.0	MS	5.0	HS	100.0	15.0	S	
2	HKI 193-1	3.5	S	3.0	MS	NG	50.0	-	
3	HKI 1105	3.0	MS	4.0	S	NG	25.0	-	
4	HKI 1344	3.5	S	4.0	S	100.0	NG	S	
5	CM 212	3.5	S	5.0	HS	100.0	0.00	S	
6	CM 117-3-2-1-1-1-2-1	3.0	MS	4.0	S	100.0	0.0	S	
7	CM 129	3.5	S	4.0	S	100.0	20.0	S	
8	CM 132	4.0	S	4.0	S	100.0	40.0	S	
9	CM 501	4.0	S	4.0	S	100.0	25.0	S	
10	CM 502	3.5	S	NG	-	100.0	10.0	S	
11	CM 105	3.0	MS	3.0	MS	100.0	0.0	S	
12	CM 123	3.5	S	5.0	HS	86.7	25.0	S	
13	CM 128	3.5	S	5.0	HS	100.0	25.0	S	
14	CM 149	3.0	MS	3.0	MS	100.0	0.0	S	
15	CML 451(P2)	3.5	S	5.0	HS	100.0	0.0	S	
16	CML 446	3.5	S	3.0	MS	100.0	30.0	S	
17	CUBA 377	2.5	MS	4.0	S	44.4	30.0	MS	
18	IIMR QPM-03-124	2.0	MR	1.0	R	NG	0.0	-	
19	IIMRQPM 03-113	4.0	S	5.0	HS	100.0	NG	S	
20	DMSC 20	3.5	S	5.0	HS	100.0	30.00	S	
21	DMSC 36	3.0	MS	5.0	HS	100.0	50.0	S	
22	DMSC 1	3.0	MS	5.0	HS	100.0	50.0	S	
23	DMSC 6	3.5	S	5.0	HS	100.0	100.0	S	
24	DMSC 8	3.5	S	4.0	S	100.0	90.0	S	

Contd.

S.No	Genotype	Sorghum downy						
		P. RUST (1-5)		C. RUST (1-5)		mildew score (%)		
		MAND	Reaction	ARBH	Reaction	MAND	COIM	Reaction
25	HKI 1040-11-7	3.5	MS	4.0	S	44.4	45.0	MS
26	HKI 1128	3.0	MS	4.0	S	NG	75.0	-
27	HKI 164-7-6 x 161	3.5	S	4.0	S	100.0	75.0	S
28	HKI 164-D-3-3-2	3.5	S	5.0	HS	100.0	15.0	S
29	HKI 193-2-2-1	4.0	S	4.0	S	100.0	0.0	S
30	HKI 226	4.0	S	3.0	MS	100.0	0.0	S
31	HKI 31-2	3.5	S	NG	-	100.0	25.0	S
32	HKI 323	3.5	S	5.0	HS	100.0	75.0	S
33	HKI Talar	2.0	MR	4.0	S	NG	45.0	-
34	HKI-2-6-2-4(1-2)-4	2.5	MS	5.0	HS	100.0	10.0	S
35	HKIMBR 139-2	3.0	MS	4.0	S	100.0	45.0	S
36	HYD05R/204-1	2.5	MS	2.0	MR	100.0	10.0	S
37	JCY 2-7-2-1-1-B-1-2-1-1	2.5	MS	3.0	MS	100.0	0.0	S
38	JCY-3-7-1-2-1-B-2-3-2-1-3-2	2.5	MS	4.0	S	100.0	15.0	S
39	POBLAC61C4	2.0	MR	3.0	MS	100.0	75.0	S
40	SHD-1 ER6	2.5	MS	5.0	HS	NG	15.0	-
41	SKV 18	2.0	MR	5.0	HS	75.0	100.0	S
42	Temp.HOC 15	3.0	MS	4.0	S	100.0	0.0	S
43	WS KHOTHAI-1-WAXY-1-1	3.0	MS	5.0	HS	100.0	25.0	S
44	EI 670	3.0	MS	4.0	S	33.0	10.0	MS
45	EI 708	3.5	S	4.0	S	0.0	0.0	R
46	EI 561	3.5	S	5.0	HS	100.0	0.0	S
47	BML13	2.5	MS	5.0	HS	100.0	50.0	S
48	BML15	3.0	MS	4.0	S	42.9	0.0	MS
49	BML 8	3.0	MS	4.0	S	NG	0.0	-

Contd.

S.No	Genotype	Sorghum downy							
		P. RUST (1-5)		C. RUST (1-5)		mildew score (%)			
		MAND	Reaction	ARBH	Reaction	MAND	COIM	Reaction	
50	CM 111	4.0	S	5.0	HS	100.0	50.0	S	
51	CM 115	4.0	S	4.0	S	100.0	0.0	S	
52	CM 119	3.0	MS	4.0	S	100.0	20.0	S	
53	CM 130	3.0	MS	5.0	HS	100.0	10.0	S	
54	CM 145	4.0	S	5.0	HS	100.0	25.0	S	
55	CM 202	4.0	S	4.0	S	100.0	10.0	S	
56	CM 500	4.0	S	4.0	S	100.0	15.0	S	
57	CML 451Q	3.0	MS	3.0	MS	100.0	10.0	S	
58	CML 44	3.5	S	3.0	MS	100.0	0.0	S	
59	CML 117-3-4-1-1-4-1	3.5	S	3.0	MS	100.0	20.0	S	
60	CML161	3.0	MS	NG	-	100.0	0.0	S	
61	CML165	2.5	MS	4.0	S	100.0	35.0	S	
62	CML175	3.0	MS	2.0	MR	100.0	0.0	S	
63	CML 287	3.0	MS	3.0	MS	33.3	0.0	MS	
64	CML 3	3.0	MS	4.0	S	100.0	10.0	S	
65	CML 321	2.5	MS	4.0	S	100.0	35.0	S	
66	CML 33	2.5	MS	3.0	MS	60.0	20.0	S	
67	IIMRQPM 58	3.0	MS	5.0	HS	100.0	20.0	S	
68	DMSC 16-1	3.0	MS	4.0	S	100.0	10.0	S	
69	DTPWC 9-F31-1-1-3	3.0	MS	3.0	MS	100.0	0.0	S	
70	G18seqcef 74-2-1	2.5	MS	3.0	MS	50.0	0.0	S	
71	Gen 6033	3.0	MS	4.0	S	100.0	50.0	S	
72	HKI 141	3.0	MS	2.0	MR	100.0	15.0	S	
73	HKI 164-3 (2-1)-1	3.0	MS	4.0	S	100.0	10.0	S	
74	HKI 586-1 WG'33	2.5	MS	3.0	MS	92.3	15.0	S	

Contd.

S.No	Genotype	Sorghum downy						
		P. RUST (1-5)		C. RUST (1-5)		mildew score (%)		
		MAND	Reaction	ARBH	Reaction	MAND	COIM	Reaction
75	HKI C 322	3.0	MS	4.0	S	100.0	35.0	S
76	HKI PC8	3.0	MS	3.0	MS	100.0	100.0	S
77	HKI 141	3.0	MS	3.0	MS	60.0	100.0	S
78	HKI 164—4(1-3)	3.0	MS	3.0	MS	100.0	75.0	S
79	HKI-164-7-4-2	3.0	MS	2.0	MR	100.0	75.0	S
80	HKI 191-1-2-5	2.5	MS	3.0	MS	100.0	0.0	S
81	HKI-484-5	3.0	MS	2.0	MR	NG	10.0	-
82	HKIC 78	3.0	MS	NG	-	100.0	5.0	S
83	HKISCST	3.0	MS	3.0	MS	100.0	25.0	S
84	ITNA 04	3.5	S	3.0	MS	100.0	20.0	S
85	JCY 2-2-4-1-1	2.5	MS	3.0	MS	25.0	5.0	MR
86	KML 3-3	3.5	S	3.0	MS	100.0	45.0	S
87	La Posta Seq C 7-F10-3-1-2-3-B-B-B-B-B	3.5	S	3.0	MS	100.0	10.0	S
88	LM 5	3.0	MS	4.0	S	100.0	5.0	S
89	P 390AM/CMLC4F230-B-2-1	4.5	HS	4.0	S	100.0	95.0	S
90	P 3C45SB-33-##-11	3.0	MS	4.0	S	100.0	35.0	S
91	P 72c1Xbrasil1177-2	3.5	S	4.0	S	100.0	0.0	S
92	SC 24-(C12)-3-2-1-1	3.0	MS	5.0	HS	100.0	0.0	S
93	SC 7-2-1-2-6-1	3.0	MS	5.0	HS	100.0	0.0	S
94	Tempx Trop(H0)QPM-B-B-B-57-B-B	3.5	S	4.0	S	100.0	0.0	S
95	TS2TR 1107	3.0	MS	4.0	S	100.0	0.0	S
96	V 334	3.0	MS	4.0	S	100.0	50.0	S
97	WINPOP 2	3.5	S	4.0	S	100.0	60.0	S
98	WINPOP-43	3.5	S	4.0	S	100.0	0.0	S

Contd.

S.No	Genotype	Sorghum downy						
		P. RUST (1-5)		C. RUST (1-5)		mildew score (%)		
		MAND	Reaction	ARBH	Reaction	MAND	COIM	Reaction
99	WSCShrunken X MUS MADHAU	4.0	S	2.0	MR	100.0	75.0	S
100	Resistant Check	NG	-	NG	-	NG	0.0	-
101	Susceptible check	4.5	HS	5.0	HS	100	100.0	S

Resistant Check : SDM:- CoH6 (COIMBATORE)

**Susceptible Check : P. RUST :-219J (MANDYA); C.RUST:- CM 202 (ARBHAVI);
SDM:- CM 500 (MANDYA); CM 500 (COIMBATORE)**

Contd.

S.No	Genotype	Charcoal rot score (1-9)					Reaction
		IIMR*	LUDH	HYD	Av. Score	Range	
1	HKI163	1.0	3.7	1.8	2.7	1.8-3.7	R
2	HKI 193-1	1.0	NG	2.0	2.0	2.0-2.0	R
3	HKI 1105	NG	NG	1.4	1.4	1.4-1.4	R
4	HKI 1344	1.0	4.5	1.3	2.9	1.3-4.5	R
5	CM 212	1.0	6.5	1.5	4.0	1.5-6.5	MR
6	CM 117-3-2-1-1-1-2-1	1.0	5.5	NG	5.5	5.5-5.5	MS
7	CM 129	9.0	7.0	1.3	4.1	1.3-7.0	MR
8	CM 132	1.0	2.7	1.5	2.1	1.5-2.7	R
9	CM 501	1.0	4.2	3.6	3.9	3.6-4.2	MR
10	CM 502	1.0	5.2	1.8	3.5	1.8-5.2	MR
11	CM 105	4.2	5.2	2.1	3.7	2.1-5.2	MR
12	CM 123	1.0	3.2	4.3	3.7	3.2-4.3	MR
13	CM 128	3.2	3.5	3.8	3.6	3.5-3.8	MR
14	CM 149	1.0	4.7	2.1	3.4	2.1-4.7	MR
15	CML 451(P2)	2.6	5.6	1.4	3.5	1.4-5.6	MR
16	CML 446	1.0	3.6	1.9	2.7	1.9-3.6	R
17	CUBA 377	1.0	3.7	NG	3.7	1.0-3.7	MR
18	IIMR QPM-03-124	NG	NG	1.5	1.5	1.5-1.5	R
19	IIMRQPM 03-113	2.5	7.0	2.5	4.8	2.5-7.0	MR
20	DMSC 20	1.0	9.0	2.8	5.9	2.8-9.0	MS
21	DMSC 36	NG	5.0	2.1	3.6	2.1-9.0	MR
22	DMSC 1	2.5	6.2	3.4	4.8	3.4-6.2	MR
23	DMSC 6	NG	4.5	--	4.5	4.5-4.5	MR
24	DMSC 8	5.7	8.0	2.3	5.1	2.3-8.0	MS

Contd.

S.No	Genotype	Charcoal rot score (1-9)					Reaction
		IIMR*	LUDH	HYD	Av. Score	Range	
25	HKI 1040-11-7	1.0	3.0	2.4	2.7	2.4-3.0	R
26	HKI 1128	4.8	8.2	2.3	5.3	2.3-8.2	MS
27	HKI 164-7-6 x 161	1.0	7.7	5.5	6.6	5.5-7.7	MS
28	HKI 164-D-3-3-2	2.0	5.5	3.4	4.5	3.4-5.5	MR
29	HKI 193-2-2-1	1.0	3.5	1.9	2.7	1.9-3.5	R
30	HKI 226	NG	4.3	1.7	3.0	1.7-4.3	R
31	HKI 31-2	1.0	4.2	1.4	2.8	1.4-4.2	R
32	HKI 323	1.0	NG	NG	1.0	1.0-1.0	R
33	HKI Talar	NG	9.0	NG	9.0	9.0-9.0	S
34	HKI-2-6-2-4(1-2)-4	1.5	4.0	1.8	2.9	1.8-4.0	R
35	HKIMBR 139-2	1.0	3.5	2.3	2.9	2.3-3.5	R
36	HYD05R/204-1	3.6	3.2	1.7	2.4	1.7-3.2	R
37	JCY 2-7-2-1-1-B-1-2-1-1	1.0	4.8	3.0	3.9	3.0-4.8	MR
38	JCY-3-7-1-2-1-B-2-3-2-1-3-2	1.0	5.0	2.7	3.9	2.7-5.0	MR
39	POBLAC61C4	NG	6.0	2.8	4.4	2.8-6.0	MR
40	SHD-1 ER6	NG	NG	4.5	4.5	4.5-4.5	MR
41	SKV 18	1.0	3.0	3.7	3.3	3.0-3.7	MR
42	Temp.HOC 15	1.0	3.0	2.8	2.9	2.8-3.0	R
43	WS KHOTHAI-1-WAXY-1-1	1.0	4.3	2.2	3.3	2.2-4.3	MR
44	EI 670	1.0	4.2	2.3	3.2	2.3-4.2	MR
45	EI 708	1.5	5.0	2.6	3.8	2.6-5.0	MR
46	EI 561	1.0	4.7	3.6	4.2	3.6-4.7	MR
47	BML13	1.0	6.4	1.7	4.1	1.7-6.4	MR
48	BML15	NG	9.0	2.7	5.8	2.7-9.0	MS
49	BML 8	1.0	4.0	2.1	3.1	2.1-4.0	MR

Contd.

S.No	Genotype	Charcoal rot score (1-9)					Reaction
		IIMR*	LUDH	HYD	Av. Score	Range	
50	CM 111	1.0	7.0	2.0	4.5	2.0-7.0	MR
51	CM 115	5.8	5.8	1.7	3.8	1.7-5.8	MR
52	CM 119	5.0	6.5	2.5	4.5	2.5-6.5	MR
53	CM 130	1.0	5.7	2.7	4.2	2.7-5.7	MR
54	CM 145	1.0	6.5	2.4	4.5	2.4-6.5	MR
55	CM 202	1.0	5.2	1.6	3.4	1.6-5.2	MR
56	CM 500	NG	4.2	1.7	2.9	1.7-4.2	R
57	CML 451Q	2.3	3.7	2.3	3.0	2.3-3.7	R
58	CML 44	1.0	3.8	1.9	2.8	1.9-3.8	R
59	CML 117-3-4-1-1-4-1	NG	4.0	2.0	3.0	2.0-4.0	R
60	CML161	1.0	4.7	2.1	3.4	2.1-4.7	MR
61	CML165	1.0	4.0	1.9	2.9	1.9-4.0	R
62	CML175	NG	NG	1.3	1.3	1.3-1.3	R
63	CML 287	1.0	6.0	1.8	3.9	1.8-6.0	MR
64	CML 3	1.6	3.5	1.8	2.6	1.8-3.5	R
65	CML 321	1.0	4.0	2.3	3.1	2.3-4.0	MR
66	CML 33	1.0	3.0	2.3	2.6	2.3-3.0	R
67	IIMRQPM 58	1.0	3.5	2.0	2.8	2.0-3.5	R
68	DMSC 16-1	1.0	3.4	2.3	2.8	2.3-3.4	R
69	DTPWC 9-F31-1-1-3	1.0	NG	2.4	2.4	2.4-2.4	R
70	G18seqcef 74-2-1	1.0	4.2	2.6	3.4	2.6-4.2	MR
71	Gen 6033	1.0	3.2	1.7	2.4	1.7-3.2	R
72	HKI 141	1.0	5.0	1.1	3.1	1.1-5.0	MR
73	HKI 164-3 (2-1)-1	1.0	4.0	2.4	3.2	2.4-4.0	MR
74	HKI 586-1 WG'33	1.3	5.0	1.8	3.4	1.8-5.0	MR

Contd.

S.No	Genotype	Charcoal rot score (1-9)					Reaction
		IIMR*	LUDH	HYD	Av. Score	Range	
75	HKI C 322	2.0	8.7	1.7	5.2	1.7-8.7	MS
76	HKI PC8	NG	NG	2.2	2.2	2.2-2.2	R
77	HKI 141	1.0	5.6	1.9	3.7	1.9-5.6	MR
78	HKI 164—4(1-3)	2.2	NG	2.9	2.9	2.9-2.9	R
79	HKI-164-7-4-2	1.0	3.8	3.4	3.6	3.4-3.8	MR
80	HKI 191-1-2-5	1.5	8.0	2.7	5.3	2.7-8.0	MS
81	HKI-484-5	1.5	NG	2.2	2.2	2.2-2.2	R
82	HKIC 78	4.7	4.0	1.9	3.0	1.9-4.0	R
83	HKISCST	1.8	NG	5.3	5.3	5.3-5.3	MS
84	ITNA 04	1.0	7.4	3.8	5.6	3.8-7.4	MS
85	JCY 2-2-4-1-1	1.0	4.2	2.0	3.1	2.0-4.2	MR
86	KML 3-3	2.6	4.0	2.4	3.2	2.4-4.0	MR
87	La Posta Seq C 7-F10-3-1-2-3-B-B-B-B-B	1.0	5.2	1.9	3.5	1.9-5.2	MR
88	LM 5	1.0	4.0	1.9	2.9	1.9-4.0	R
89	P 390AM/CMLC4F230-B-2-1	1.0	3.2	2.3	2.8	2.3-3.2	R
90	P 3C45SB-33-##-11	4.3	4.7	1.8	3.3	1.8-4.7	MR
91	P 72c1Xbrasil1177-2	2.5	9.0	2.3	5.6	2.3-9.0	MS
92	SC 24-(C12)-3-2-1-1	1.0	7.0	3.1	5.1	3.1-7.0	MS
93	SC 7-2-1-2-6-1	1.0	4.0	2.4	3.2	2.4-4.0	MR
94	Tempx Trop(H0)QPM-B-B-B-57-B-B	1.0	4.8	2.3	3.6	2.3-4.8	MR
95	TS2TR 1107	1.0	3.2	2.0	2.6	2.0-3.2	R
96	V 334	1.4	5.7	4.1	4.9	4.1-5.7	MR
97	WINPOP 2	1.0	6.0	1.6	3.8	1.6-6.0	MR
98	WINPOP-43	1.0	4.4	1.5	3.0	1.5-4.4	R

Contd.

S.No	Genotype	Charcoal rot score (1-9)					Reaction
		IIMR*	LUDH	HYD	Av. Score	Range	
99	WSCShrunken X MUS MADHAU	1.0	4.7	2.3	3.5	2.3-4.7	MR
100	Resistant Check	-	3.2	2.3	2.8	2.3-3.2	R
101	Susceptible check	4.0	7.0	5.2	6.1	5.2-7.0	MS

Resistant Check : C. ROT:- LET DR 99x Ent 49 (LUDHIANA); JCY2-7 (HYDERABAD)

Susceptible Check : C. ROT:- CM 600 (LUDHIANA) ; BML6 (HYDERABAD)

* Data not considered due to low disease pressure

Contd.

S.No	Genotype	Fusarium stalk		Rajasthan downy		
		rot score (1-9)	UDAI	Reaction	mildew score (%)	UDAI
1	HKI163	2.4		R	33.0	MS
2	HKI 193-1	2.8		R	NG	-
3	HKI 1105	NG		-	NG	-
4	HKI 1344	2.8		R	36.0	MS
5	CM 212	2.6		R	100.0	S
6	CM 117-3-2-1-1-1-2-1	3.4		MR	10.0	R
7	CM 129	5.8		MS	93.0	S
8	CM 132	2.7		R	67.0	S
9	CM 501	2.4		R	27.0	MS
10	CM 502	2.0		R	83.0	S
11	CM 105	3.6		MR	73.0	S
12	CM 123	2.6		R	98.0	S
13	CM 128	2.0		R	81.0	S
14	CM 149	4.0		MR	33.0	MS
15	CML 451(P2)	1.6		R	100.0	S
16	CML 446	2.0		R	92.0	S
17	CUBA 377	3.0		R	0.0	R
18	IIMR QPM-03-124	3.4		MR	NG	-
19	IIMRQPM 03-113	2.0		R	75.0	S
20	DMSC 20	1.6		R	58.0	S
21	DMSC 36	2.9		R	93.0	S
22	DMSC 1	1.7		R	83.0	S
23	DMSC 6	2.1		R	92.0	S
24	DMSC 8	2.2		R	58.0	S

Contd.

P-204

S.No	Genotype	Fusarium stalk		Rajasthan downy	
		rot score (1-9)	Reaction	mildew score (%)	Reaction
25	HKI 1040-11-7	4.0	MR	83.0	S
26	HKI 1128	1.9	R	100.0	S
27	HKI 164-7-6 x 161	3.1	MR	40.0	MS
28	HKI 164-D-3-3-2	2.5	R	100.0	S
29	HKI 193-2-2-1	2.0	R	95.0	S
30	HKI 226	2.7	R	0.0	R
31	HKI 31-2	2.7	R	NG	-
32	HKI 323	1.3	R	67.0	S
33	HKI Talar	NG	-	NG	-
34	HKI-2-6-2-4(1-2)-4	NG	-	NG	-
35	HKIMBR 139-2	3.5	MR	29.0	MS
36	HYD05R/204-1	2.4	R	71.0	S
37	JCY 2-7-2-1-1-B-1-2-1-1	3.0	R	30.0	MS
38	JCY-3-7-1-2-1-B-2-3-2-1-3-2	3.1	MR	30.0	MS
39	POBLAC61C4	NG	-	90.0	S
40	SHD-1 ER6	NG	-	100.0	S
41	SKV 18	2.3	R	33.0	MS
42	Temp.HOC 15	2.8	R	33.0	MS
43	WS KHOTHAI-1-WAXY-1-1	2.8	R	92.0	S
44	EI 670	2.8	R	33.0	MS
45	EI 708	1.8	R	33.0	MS
46	EI 561	1.7	R	33.0	MS
47	BML13	2.7	R	42.0	MS
48	BML15	3.9	MR	33.0	MS
49	BML 8	2.5	R	66.0	S

Contd.

P-205

S.No	Genotype	Fusarium stalk		Rajasthan downy	
		rot score (1-9)	Reaction	mildew score (%)	Reaction
50	CM 111	3.1	MR	97.0	S
51	CM 115	1.9	R	50.0	MS
52	CM 119	2.7	R	90.0	S
53	CM 130	2.1	R	100.0	S
54	CM 145	1.7	R	30.0	MS
55	CM 202	3.1	MR	50.0	MS
56	CM 500	2.7	R	100.0	S
57	CML 451Q	2.7	R	0.0	R
58	CML 44	3.0	R	69.0	S
59	CML 117-3-4-1-1-4-1	1.9	R	33.0	MS
60	CML161	2.8	R	14.0	MR
61	CML165	2.8	R	17.0	MR
62	CML175	NG	-	90.0	S
63	CML 287	2.5	R	83.0	S
64	CML 3	3.8	MR	80.0	S
65	CML 321	1.9	R	83.0	S
66	CML 33	3.3	MR	58.0	S
67	IIMRQPM 58	3.8	MR	100.0	S
68	DMSC 16-1	2.6	R	67.0	S
69	DTPWC 9-F31-1-1-3	2.1	R	18.0	MR
70	G18seqcef 74-2-1	3.1	MR	18.0	MR
71	Gen 6033	3.3	MR	33.0	MS
72	HKI 141	NG	-	100.0	S
73	HKI 164-3 (2-1)-1	2.8	R	64.0	S
74	HKI 586-1 WG'33	2.1	R	58.0	S

Contd.

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S.No	Genotype	Fusarium stalk		Rajasthan downy	
		rot score (1-9)	Reaction	mildew score (%)	Reaction
75	HKI C 322	1.9	R	83.0	S
76	HKI PC8	3.0	R	0.0	R
77	HKI 141	2.5	R	83.0	S
78	HKI 164—4(1-3)	2.1	R	50.0	MS
79	HKI-164-7-4-2	1.8	R	25.0	MR
80	HKI 191-1-2-5	2.8	R	0.0	R
81	HKI-484-5	3.2	MR	93.0	S
82	HKIC 78	3.3	MR	67.0	S
83	HKISCST	4.0	MR	100.0	S
84	ITNA 04	3.4	MR	77.0	S
85	JCY 2-2-4-1-1	2.3	R	0.0	R
86	KML 3-3	2.3	R	0.0	R
87	La Posta Seq C 7-F10-3-1-2-3-B-B-B-B-B-B	3.1	MR	14.0	MR
88	LM 5	3.1	MR	100.0	S
89	P 390AM/CMLC4F230-B-2-1	3.4	MR	67.0	S
90	P 3C45SB-33-##-11	3.2	MR	50.0	MS
91	P 72c1Xbrasil1177-2	2.2	R	58.0	S
92	SC 24-(C12)-3-2-1-1	2.3	R	90.0	S
93	SC 7-2-1-2-6-1	4.0	MR	100.0	S
94	Tempx Trop(H0)QPM-B-B-B-57-B-B	2.9	R	20.0	MR
95	TS2TR 1107	1.8	R	100.0	S
96	V 334	2.4	R	67.0	S
97	WINPOP 2	2.3	R	NG	-
98	WINPOP-43	2.2	R	NG	-

Contd.

S.No	Genotype	Fusarium stalk		Rajasthan downy		
		rot score (1-9)	UDAI	Reaction	mildew score (%)	UDAI
99	WSCShrunken X MUS MADHAU	2.5		R	100.0	S
100	Susceptible check	8.6		S	100.0	S

Susceptible Check : FSR:- SURYA (UDAIPUR); RDM:- SURYA (UDAIPUR)

Contd.

S.No	Genotype	Bacterial stalk rot score (%)				Curvularia leaf spot score (1-5)		
		DHAU	PANT	Av. Score	Range	Reaction	UDAI	Reaction
1	HKI163	57.1	60.0	58.6	57.1-60.0	S	1.0	R
2	HKI 193-1	NG	NG	-	-	-	4.0	MS
3	HKI 1105	NG	NG	-	-	-	NG	-
4	HKI 1344	0.0	100.0	50.0	0.0-100.0	MS	1.5	R
5	CM 212	100.0	90.0	95.0	90.0-100.0	S	3.5	MS
6	CM 117-3-2-1-1-1-2-1	0.0	18.2	9.1	0.0-18.2	R	4.0	MS
7	CM 129	33.3	100.0	66.7	33.3-100.0	S	4.0	MS
8	CM 132	0.0	12.5	6.3	0.0-12.5	R	5.0	S
9	CM 501	0.0	80.0	40.0	0.0-80.0	MS	2.0	R
10	CM 502	9.1	NG	9.1	9.1-9.1	R	1.5	R
11	CM 105	75.0	-	75.0	75.0-75.0	S	1.0	R
12	CM 123	20.0	75.0	47.5	20.0-75.0	MS	1.5	R
13	CM 128	66.7	80.0	73.4	66.7-80.0	S	2.0	R
14	CM 149	11.1	25.0	18.1	11.1-25.0	MR	4.5	S
15	CML 451(P2)	16.7	22.2	19.5	16.7-22.2	MR	3.5	MS
16	CML 446	0.0	54.5	27.3	0.0-54.5	MS	2.5	MR
17	CUBA 377	21.4	NG	21.4	21.4-21.4	MR	2.0	R
18	IIMR QPM-03-124	NG	NG	-	-	-	2.5	MR
19	IIMRQPM 03-113	75.0	87.5	81.3	75.0-87.5	S	4.5	S
20	DMSC 20	0.0	75.0	37.5	0.0-75.0	MS	5.0	S
21	DMSC 36	60.0	50.0	55.0	50.0-60.0	S	4.0	MS
22	DMSC 1	0.0	85.7	42.9	0.0-85.7	MS	2.5	MR
23	DMSC 6	33.3	100.0	66.7	33.3-100.0	S	NG	
24	DMSC 8	100.0	100.0	100.0	100.0-100.0	S	2.0	R

Contd.

S.No	Genotype	Bacterial stalk rot score (%)				Curvularia leaf spot score (1-5)		
		DHAU	PANT	Av. Score	Range	Reaction	UDAI	Reaction
		25	HKI 1040-11-7	50.0	66.7	58.3	50.0-66.7	S
26	HKI 1128	33.3	100.0	66.7	33.3-100.0	S	4.5	S
27	HKI 164-7-6 x 161	0.0	100.0	50.0	0.0-100.0	MS	2.5	MR
28	HKI 164-D-3-3-2	8.3	40.0	24.2	8.3-40.0	MR	2.0	R
29	HKI 193-2-2-1	0.0	5.0	2.5	0.0-5.0	R	3.5	MS
30	HKI 226	25.0	NG	25.0	25.0-25.0	MR	4.0	MS
31	HKI 31-2	8.3	40.0	24.2	8.3-40.0	MR	2.0	R
32	HKI 323	NG	NG	-	-	-	3.0	MR
33	HKI Talar	0.0	66.7	33.3	0.0-66.7	MS	2.5	MR
34	HKI-2-6-2-4(1-2)-4	0.0	50.0	25.0	0.0-50.0	MR	1.5	R
35	HKIMBR 139-2	12.5	10.0	11.3	10.0-12.5	MR	1.5	R
36	HYD05R/204-1	0.0	70.0	35.0	0.0-70.0	MS	2.0	R
37	JCY 2-7-2-1-1-B-1-2-1-1	18.2	-	18.2	18.2-18.2	MR	2.0	R
38	JCY-3-7-1-2-1-B-2-3-2-1-3-2	0.0	100.0	50.0	0.0-100.0	MS	2.0	R
39	POBLAC61C4	NG	71.4	71.4	71.4-71.4	S	4.5	S
40	SHD-1 ER6	7.1	100.0	53.6	7.1-100.0	S	4.5	S
41	SKV 18	0.0	100.0	50.0	0.0-100.0	MS	4.0	MS
42	Temp.HOC 15	9.1	NG	9.1	9.1-9.1	R	4.0	MS
43	WS KHOTHAI-1-WAXY-1-1	15.4	57.1	36.3	15.4-57.1	MS	2.0	R
44	EI 670	0.0	NG	0.0	0.0-0.0	R	5.0	S
45	EI 708	11.1	83.3	47.2	11.1-83.3	MS	2.5	MR
46	EI 561	50.0	75.0	62.5	50.0-75.0	S	1.5	R
47	BML13	0.0	0.0	0.0	0.0-0.0	R	3.5	MS
48	BML15	0.0	14.3	7.1	0.0-14.3	R	2.0	R
49	BML 8	57.1	25.0	41.1	25.0-57.1	MS	1.5	R

Contd.

S.No	Genotype	Bacterial stalk rot score (%)				Reaction	UDAI	Reaction
		DHAU	PANT	Av. Score	Range			
50	CM 111	-	50.0	50.0	50.0-50.0	MS	1.0	R
51	CM 115	31.3	37.5	34.4	31.3-37.5	MS	4.5	S
52	CM 119	12.5	66.7	39.6	12.5-66.7	MS	2.5	MR
53	CM 130	16.7	100.0	58.4	16.7-100.0	S	3.5	MS
54	CM 145	20.0	77.8	48.9	20.0-77.8	MS	3.5	MS
55	CM 202	0.0	12.5	6.3	0.0-12.5	R	2.0	R
56	CM 500	0.0	66.7	33.3	0.0-66.7	MS	0.5	R
57	CML 451Q	40.0	83.3	61.7	40.0-83.3	S	2.0	R
58	CML 44	0.0	75.0	37.5	0.0-75.0	MS	2.0	R
59	CML 117-3-4-1-1-4-1	0.0	0.0	0.0	0.0-0.0	R	5.0	S
60	CML161	20.0	60.0	40.0	20.0-60.0	MS	4.5	S
61	CML165	5.6	85.7	45.7	5.6-85.7	MS	4.0	MS
62	CML175	NG	NG	-	-	-	3.5	MS
63	CML 287	7.7	33.3	20.5	7.7-33.3	MR	4.0	MS
64	CML 3	0.0	28.6	14.3	0.0-28.6	MR	2.0	R
65	CML 321	12.5	NG	12.5	12.5-12.5	MR	3.5	MS
66	CML 33	13.6	NG	13.6	13.6-13.6	MR	4.5	S
67	IIMRQPM 58	100.0	22.2	61.1	22.2-100.0	S	3.5	MS
68	DMSC 16-1	0.0	57.1	28.6	0.0-57.1	MS	1.5	R
69	DTPWC 9-F31-1-1-3	14.3	50.0	32.2	14.3-50.0	MS	2.5	MR
70	G18seqcef 74-2-1	23.1	42.9	33.0	23.1-42.9	MS	4.5	S
71	Gen 6033	23.1	NG	23.1	23.1-23.1	MR	5.0	S
72	HKI 141	33.3	50.0	41.7	33.3-50.0	MS	1.0	R
73	HKI 164-3 (2-1)-1	40.0	37.5	38.8	37.5-40.0	MS	3.5	MS
74	HKI 586-1 WG'33	66.7	100.0	83.4	66.7-100.0	S	4.0	MS

Contd.

S.No	Genotype	Bacterial stalk rot score (%)				Curvularia leaf spot score (1-5)		
		DHAU	PANT	Av. Score	Range	Reaction	UDAI	Reaction
		75	HKI C 322	18.2	87.5	52.9	18.2-87.5	S
76	HKI PC8	100.0	-	100.0	100.0-100.0	S	3.5	MS
77	HKI 141	0.0	100.0	50.0	0.0-100.0	MS	2.5	MR
78	HKI 164—4(1-3)	0.0	42.9	21.4	0.0-42.9	MR	1.5	R
79	HKI-164-7-4-2	0.0	50.0	25.0	0.0-50.0	MR	2.0	R
80	HKI 191-1-2-5	-	0.0	0.0	0.0-0.0	R	2.5	MR
81	HKI-484-5	33.3	0.0	16.7	0.0-33.3	MR	2.5	MR
82	HKIC 78	7.7	11.1	9.4	7.7-11.1	R	3.5	MS
83	HKISCST	0.0	100.0	50.0	0.0-100.0	MS	2.5	MR
84	ITNA 04	9.1	100.0	54.6	9.1-100.0	S	1.5	R
85	JCY 2-2-4-1-1	11.1	0.0	5.6	0.0-11.1	R	2.0	R
86	KML 3-3	0.0	22.2	11.1	0.0-22.2	MR	1.5	R
87	La Posta Seq C 7-F10-3-1-2-3-B-B-B-B-B-B	33.3	80.0	56.7	33.3-80.0	S	2.0	R
88	LM 5	15.4	0.0	7.7	0.0-15.4	R	2.0	R
89	P 390AM/CMLC4F230-B-2-1	0.0	42.9	21.4	0.0-42.9	MR	3.0	MR
90	P 3C45SB-33-##-11	0.0	28.6	14.3	0.0-28.6	MR	4.0	MS
91	P 72c1Xbrasil1177-2	16.7	12.5	14.6	12.5-16.7	MR	3.5	MS
92	SC 24-(C12)-3-2-1-1	33.3	80.0	56.7	33.3-80.0	S	4.0	MS
93	SC 7-2-1-2-6-1	11.8	66.7	39.2	11.8-66.7	MS	1.5	R
94	Tempx Trop(H0)QPM-B-B-B-57-B-B	6.7	25.0	15.9	6.7-25.0	MR	2.0	R
95	TS2TR 1107	50.0	0.0	25.0	0.0-50.0	MR	2.0	R
96	V 334	0.0	60.0	30.0	0.0-60.0	MS	2.5	MR
97	WINPOP 2	62.5	0.0	31.3	0.0-62.5	MS	3.5	MS
98	WINPOP-43	0.0	0.0	0.0	0.0-0.0	R	3.5	MS

Contd.

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S.No	Genotype	Bacterial stalk rot score (%)				Curvularia leaf spot score (1-5)		
		DHAU	PANT	Av. Score	Range	Reaction	UDAI	Reaction
99	WSCShrunken X MUS MADHAU	0.0	0.0	0.0	0.0-0.0	R	3.0	MR
100	Susceptible check	75.0	100.0	87.5	75.0-100.0	MS	4.5	S

Susceptible Check :BSR:- CM600 (PANTNAGAR); DKC 7074 (DHAULAKUAN); CLS:- SURYA (UDAIPUR)

Table 12. Disease screening of QPM lines against different diseases

S.No	Genotype	Maydis leaf blight score (1-5)				Turcicum leaf blight score (1-5)				
		DEL	LUD	KAR	Av.Score	Reaction	BAJ	MAND	Av.Score	Reaction
1	DQL 2006	2.5	2.8	3.6	2.95	MR	1.5	4.5	3.0	MR
2	DQL 2008-1	1.5	2.5	3.6	2.53	MR	2.0	4.0	3.0	MR
3	DQL 2009	2.5	3.3	3.2	2.98	MR	3.0	3.0	3.0	MR
4	DQL 2010	2.0	2.8	3.2	2.65	MR	2.5	2.5	2.5	MR
5	DQL 2015	2.0	3.0	1.6	2.20	MR	2.0	2.5	2.3	MR
6	DQL 2019	2.5	2.0	1.2	1.90	R	2.0	3.0	2.5	MR
7	DQL 2024	2.5	3.8	2.2	2.82	MR	2.0	3.5	2.8	MR
8	DQL 2025	2.5	2.3	2.6	2.45	MR	2.0	2.5	2.3	MR
9	DQL 2028	1.5	2.8	3.2	2.48	MR	2.0	3.5	2.8	MR
10	DQL 2031	1.5	3.5	1.6	2.20	MR	3.0	3.0	3.0	MR
11	DQL 2034	3.0	2.0	2.2	2.40	MR	2.5	2.5	2.5	MR
12	DQL 2038	2.0	3.8	1.2	2.32	MR	2.0	2.0	2.0	R
13	DQL 2039	2.5	3.3	3.2	2.98	MR	2.0	2.0	2.0	R
14	DQL 2048	2.5	4.0	2.2	2.90	MR	2.0	2.5	2.3	MR
15	DQL 2054	2.5	2.3	3.4	2.72	MR	1.5	3.0	2.3	MR
16	DQL 2055	2.5	2.3	3.2	2.65	MR	2.0	4.0	3.0	MR
17	DQL 2071	1.5	4.3	3.2	2.98	MR	2.5	4.0	3.3	MS
18	DQL 2068	2.0	2.8	1.6	2.12	MR	2.5	3.0	2.8	MR
19	DQL 2057	2.0	2.5	2.8	2.43	MR	3.0	2.5	2.8	MR
20	DQL 2046	2.5	4.0	1.8	2.77	MR	2.0	2.5	2.3	MR
21	DQL 2157	2.0	3.8	1.6	2.45	MR	1.5	3.5	2.5	MR
22	DQL 2111	2.0	3.8	2.2	2.65	MR	2.0	3.0	2.5	MR
23	DQL 2113	1.5	3.8	2.4	2.55	MR	2.0	2.0	2.0	R
24	DQL 2104	2.0	3.3	1.6	2.28	MR	2.0	2.0	2.0	R
25	DQL 2105-1	2.0	2.8	1.4	2.05	R	2.0	2.0	2.0	R
26	Sus check-LTP1-Äb-Äb	-	4.3	3.8	4.03	MS	-	1.5	1.5	R
27	Res check-LET DR 99xEnt 49	-	2.0	1.2	1.60	R	-	4.5	4.5	S

S.No	Genotype	BLSB (1-5)		C.ROT (1-9)		P. Rust (1-5)	
		KAR	Reaction	LUD	Reaction	MAND	Reaction
1	DQL 2006	2.8	MR	5.5	MS	4.0	S
2	DQL 2008-1	2.2	MR	5.2	MS	4.0	S
3	DQL 2009	1.8	R	4.6	MR	4.5	HS
4	DQL 2010	2.8	MR	6.9	MS	3.0	MS
5	DQL 2015	3.2	MS	5.4	MS	4.0	S
6	DQL 2019	3.6	MS	6.0	MS	3.5	S
7	DQL 2024	3.2	MS	7.6	S	3.0	MS
8	DQL 2025	1.8	R	5.4	MS	3.0	MS
9	DQL 2028	2.2	MR	3.2	MR	3.0	MS
10	DQL 2031	2.2	MR	4.8	MR	3.0	MS
11	DQL 2034	3.2	MS	5.1	MS	3.5	S
12	DQL 2038	3.4	MS	3.6	MR	3.0	MS
13	DQL 2039	3.2	MS	5.3	MS	3.0	MS
14	DQL 2048	2.2	MR	4.9	MR	3.5	S
15	DQL 2054	2.2	MR	7.1	S	3.0	MS
16	DQL 2055	3.8	MS	6.9	MS	3.5	S
17	DQL 2071	2.2	MR	5.8	MS	3.0	MS
18	DQL 2068	3.6	MS	4.2	MR	3.0	MS
19	DQL 2057	1.8	R	6.6	MS	3.5	S
20	DQL 2046	3.2	MS	5.2	MS	3.5	S
21	DQL 2157	3.8	MS	5.8	MS	3.0	MS
22	DQL 2111	1.8	R	4.4	MR	3.0	MS
23	DQL 2113	2.2	MR	5.8	MS	3.0	MS
24	DQL 2104	2.6	MR	4.9	MR	3.5	S
25	DQL 2105-1	2.0	R	4.0	MR	3.5	S
26	Sus check-LTP1-Äb-Äb	4.2	S	6.8	MS	2.0	MR
27	Res check-LET DR 99xEnt 49	1.2	R	3.1	MR	4.0	S

Table 13. Disease screening of maize genotypes against MLB and PFSR

S.No.	Pedigree	MLB (1-5)	C. Rot (1-9)			
		LUD	LUD	DEL	HYD	Av. Score
1	TL02A-1184A-32-1-3-1-2-1-1	2.0	3.0	2.5	1.5	2.3
2	TL02A-1184A-32-1-3-1-2-1-2	2.5	3.4	2.5	1.5	2.5
3	TL02A-1184A-32-1-3-1-2-1-3	2.0	4.5	1.4	2.8	2.9
4	TL02A-1184A-32-4 -1-1-2-1-1-1	2.5	3.3	1.5	1.3	2.0
5	TL02A-1184A-32-4 -1-1-2-1-1-2	1.5	3.4	2.0	1.2	2.2
6	AF -04-B-5779-22-3-3-2-2-1-1-1	3.0	4.4	2.0	1.6	2.7
7	AF -04-B-5779-22-3-3-2-2-1-1-2	2.0	5.3	1.4	1.7	2.8
8	AF-04-B-5796-A- 7-1-2-2-1-2-1-1-1	3.5	7.4	5.5	2.5	5.1
9	AF-04-B-5796-A- 7-1-2-2-1-2-1-1-2	4.5	3.8	3.8	3.9	3.8
10	CM 115-4-2 -3-2-2-1-1-1-1	2.0	6.3	3.6	2.1	4.0
11	CM 115-4-2 -3-2-2-1-1-1-2	3.0	6.5	2.6	2.4	3.8
12	CM 115-4-2 -3-2-2-1-1-1-3	2.0	6.0	2.5	1.7	3.4
13	CM 115-4-2 -3-2-2-1-2-1-1	3.0	7.0	2.0	3.6	4.2
14	CM 115-4-2 -3-2-2-1-2-1-2	2.5	7.7	4.2	3.1	5.0
15	PFSR (Y)-C0-1-⊗-4-1⊗-1-1-1-3⊗-1-1-1-1-1	2.0	5.5	2.5	2.0	3.3
16	PFSR (Y)-C0-1-⊗-4-1⊗-1-1-1-3⊗-1-1-1-1-2	2.0	3.2	4.5	2.0	3.2
17	PFSR (Y)-C0-1-⊗-4-1⊗-1-1-1-3⊗-1-1-2-1-1	3.0	9.0	2.4	2.3	4.6
18	PFSR (Y)-C0-1-⊗-4-1⊗-1-1-1-3⊗-1-1-2-1-2	2.0	7.2	2.5	2.8	4.2
19	V406 -2 ⊗-1-1-1-1-1	2.5	3.3	4.0	2.3	3.2
20	V406 -2 ⊗-1-1-1-1-2	2.5	5.2	5.4	2.4	4.3
21	V338 -1⊗-1-1-1-1-1	2.0	3.5	2.5	3.3	3.1
22	PFSR (Y)-C1-A-B1 White heart Small grains-3⊗-1-2-1-1-1	3.5	5.7	1.3	3.3	3.4
23	PFSR (Y)-C1-B-1⊗-1-1-1-1-1	4.0	4.8	1.9	3.6	3.4
24	PFSR (Y)-C1-B-1⊗-1-1-1-1-2	3.0	5.7	4.7	3.1	4.5
25	PFSR (Y)-C0-3⊗-1-1-1-1-1	3.5	3.0	2.1	2.7	2.6
26	PFSR (Y)-C0-3⊗-1-1-1-1-2	4.5	3.4	1.5	2.7	2.5
27	Indimyt-100-2⊗-1-1-2-1-1	4.0	6.0	2.8	3.7	4.2
28	Indimyt-100-2⊗-1-1-2-1-2	3.5	8.7	1.5	4.0	4.7
29	Indimyt-300-B (Bold gra-in Golden colour)-2⊗-1-1-2-1-1	2.5	4.7	5.4	3.1	4.4
30	Indimyt-345-2⊗-1-1-1	2.0	6.7	2.5	2.1	3.8
31	Indimyt-345-3⊗-2-1-1	2.0	5.5	1.5	3.0	3.3
32	Indimyt-345-3⊗-2-1-2	2.5	7.2	1.8	2.3	3.8
33	Indimyt-345-3⊗-2-1-3	2.5	4.2	2.6	1.9	2.9
34	PFSR (Y)-C1-A-A1 Pink heart Bold grains-2⊗-1-2-1-1-1	2.0	4.7	3.4	2.8	3.6

35	PFSR (Y)-C1-A-A1 Pink heart Bold grains-2⊗-1-2-1-1-2	2.5	6.4	2.8	2.4	3.9
36	North east 3-1 (N)- ⊗ -1-1-1	2.0	5.3	2.3	4.4	4.0
37	CML 27-1-1-1-1	2.5	3.0	3.8	4.8	3.9
38	North east 4-1 (N)- ⊗ -1-1-1	3.0	4.0	3.8	4.8	4.2
39	North east 4-1 (N)- ⊗ -1-1-2	2.0	5.7	2.8	4.3	4.3
40	North east 4-1 (N)- ⊗ -1-1-3	2.5	4.5	2.9	4.4	3.9
41	North east 4-2 (N)- ⊗-1-1-1	3.5	9.0	1.5	4.9	5.1
42	North east 4-3 (N)- ⊗-1-1-1	3.5	9.0	1.7	2.0	4.2
43	CML 269-1-2-1-1-1-1	3.5	5.4	1.5	2.7	3.2
44	PFSR (Y)-C1-A-A1Pink heart Bold grains-2⊗-1-2-1-1-1	3.0	7.2	1.7	2.5	3.8
45	PFSR (Y)-C1-A-A1Pink heart Bold grains-2⊗-1-2-1-1-2	4.0	NG	2.5	2.0	2.3
46	PFSR (Y)-C1-A-B1White heart Small grains-3⊗-1-2-1-1-1	2.5	7.5	1.4	2.7	3.9
47	NEH (W) -1 (N)-1-1	3.0	6.2	4.0	3.4	4.5
48	NEH (W) -1 (N)-1-2	3.0	3.8	1.6	1.5	2.3
49	NEH (W) -2 (N)-1-1	4.0	4.7	3.0	1.9	3.2
50	CML 389-1-1-1-1	3.5	5.2	2.5	2.7	3.5
51	CML 342 – 1-1-1	4.5	3.0	2.4	1.9	2.4
52	CML 342 – 1-1-2	4.5	3.0	1.2	1.5	1.9
53	PFSR (Y)-C1-A-A1 Pink heart B.G. ⊗-1-2-1-1	3.0	NG	1.8	1.6	1.7
54	PFSR (Y)-C1-A-B1 White heart S. G. ⊗-1-1-1-1	3.0	5.0	2.7	4.1	3.9
55	PFSR (Y)-C1-B ⊗-1-1-1-1	3.5	3.7	1.6	4.1	3.1
56	PFSR (Y)-C1-B ⊗-1-1-1-2	3.5	5.0	2.2	3.9	3.7
57	PFSR (Y)-C1-B ⊗-1-2-1-1	2.5	4.0	2.5	3.1	3.2
58	PFSR (Y)-C1-B ⊗-2-1-1-1	4.0	3.4	1.8	1.9	2.4
59	PFSR (Y)-C1-B ⊗-2-2-1-1	3.5	3.6	2.6	3.7	3.3
60	PFSR (Y)-C1-B ⊗-2-2-1-2	3.0	4.4	2.7	4.7	3.9
61	PFSR (Y)-C1-B ⊗-2-2-1-2	3.5	9.0	3.8	5.0	5.9
62	PFSR (Y)-C0 ⊗-2-1-1-1	4.0	3.0	2.5	3.5	3.0
63	PFSR (White) ⊗-2-1-1-1	4.5	9.0	1.8	2.1	4.3
64	PFSR (White) ⊗-2-2-1-1	4.5	5.6	2.5	2.5	3.5
65	Extra-early (White) ⊗-1-1-1-1	4.0	5.5	1.0	2.8	3.1
66	Resistant Check	2.0	3.2	-	2.0	2.6
67	Susceptible Check	4.5	7.2	6.0	4.8	6.0

Resistant Check:-MLB- LET DR 99x Ent 49 (Ludhiana), PFSR- LET DR 99x Ent 49 (Ludhiana), JCY2-7 (Hyderabad)

Susceptible Check:-MLB- LEP-1⊗b-⊗b (Ludhiana), PFSR- LEP-1⊗b-⊗b (Ludhiana), BML 6 (Hyderabad)

Table 14. Disease screening of inbred lines of maize against different diseases

S.No.	Genotype	Maydis leaf blight score (1-5)						
		DELH	LUDH	DHAU	KARN	Av. Score	Range	Reaction
1.	TL02A-1184A-32-1-3-1-2-1-1	2.0	3.5	4.0	2.2	2.9	2.0-4.0	MR
2.	AF-04-B-5796-A- 7-1-2-2-1-2-1-1-1	2.5	4.0	4.0	3.0	3.4	2.5-4.0	MS
3.	Indimyt-300-B (Bold grain Golden colour)-2⊗-1-1-2-1-1	3.5	3.5	3.0	3.2	3.3	3.0-3.5	MS
4.	Indimyt-345-3⊗-2-1-1	2.5	3.0	3.0	3.2	2.9	2.5-3.2	MR
5.	PFSR (Y)-C1-A-A1 Pink heart Bold grains-2⊗-1-2-1-1-1	3.0	2.0	2.5	1.4	2.2	1.4-3.0	MR
6.	PFSR (Y)-C1-A-A1 Pink heart B.G. ⊗-1-2-1-1	2.0	2.0	3.0	1.6	2.2	1.6-3.0	MR
7.	PFSR (Y)-C1-B ⊗-1-1-1-2	2.5	2.5	4.0	2.8	3.0	2.5-4.0	MR
8.	PFSR (Y)-C1-B ⊗-2-1-1-1	3.5	3.5	2.0	3.2	3.1	2.0-3.5	MS
9.	PFSR (Y)-C1-B ⊗-2-2-1-1	3.0	3.5	4.0	3.2	3.4	3.0-4.0	MS
10.	PFSR (Y)-C0 ⊗-2-1-1-1	2.5	4.0	4.0	3.0	3.4	2.5-4.0	MS
11.	PFSR (White) ⊗-2-2-1-1	2.5	4.0	4.0	3.4	3.5	2.5-4.0	MS
12.	AF-04-B-5796-A- 7-1-2-2-1-2-2-2	2.5	3.5	4.0	2.8	3.2	2.5-4.0	MS
13.	V406 -2 ⊗-1-1 -1-1-1	2.5	4.0	2.0	3.0	2.9	2.0-4.0	MR
14.	PFSR (Y)-C1-B-1⊗-1-2-1-1-1	2.0	3.5	3.0	3.0	2.9	2.0-3.5	MR
15.	Indimyt-100-2⊗-1-2-1-1	2.0	2.5	3.0	1.4	2.2	1.4-3.0	MR
16.	Indimyt-100-2⊗-1-2-2-1	2.0	2.0	1.5	2.2	1.9	1.5-2.2	R
17.	North east 4-1 (N)-1	2.5	3.0	2.0	3.0	2.6	2.0-3.0	MR
18.	Indimyt-145 ⊗-1-1-1-1	2.5	3.5	3.0	2.2	2.8	2.2-3.5	MR
19.	Indimyt-345 ⊗-1-1-1	2.5	2.5	-	3.0	2.7	2.5-3.0	MR
20.	PFSR (Y)-C1-A-A1 Pink heart B.G. ⊗-1-2-1-1	3.0	3.5	2.5	2.6	2.9	2.5-3.5	MR
21.	PFSR (Y)-C1-A-A1 Pink heart B.G. ⊗-3-1-1-1	2.5	2.0	2.5	2.6	2.4	2.0-2.6	MR
22.	PFSR (Y)-C1-A-A1 Pink heart B.G. ⊗-3-2-1-1	2.0	2.0	3.0	3.0	2.5	2.0-3.0	MR
23.	PFSR (Y)-C1-A-B1 White heart S. G. ⊗-1-2-1-1 (Good)	2.5	4.5	2.0	3.0	3.0	2.0-4.5	MR
24.	PFSR (Y)-C1-A-B1 White heart S.G. ⊗-2-1-1-1	2.5	4.0	3.0	2.0	2.9	2.0-4.0	MR
25.	PFSR (Y)-C1-B ⊗-3-1-1-1	2.0	4.0	3.0	2.4	2.9	2.0-4.0	MR
26.	PFSR (Y)-C1-B ⊗-3-2-1-1	3.0	4.5	3.0	1.4	3.0	1.4-4.5	MR

27.	PFSR (White) ⊗-2-2-1-2	2.5	4.5	3.0	1.4	2.9	1.4-4.5	MR
28.	PFSR (White) ⊗-2-2-1-2	2.5	2.0	2.0	1.4	2.0	1.4-2.5	MR
29.	Indimyt-300-A (B. G. Yellow) ⊗-1-1-1-1	2.5	2.5	3.0	3.2	2.8	2.5-3.2	MR
30.	Indimyt-300-A (B. G. Yellow) ⊗-1-2-1-1	2.5	2.5	2.5	3.6	2.8	2.5-3.6	MR
31.	Indimyt-300-A (B. G. Yellow) ⊗-1-3-1-1 (Big)	2.0	4.0	3.0	3.0	3.0	2.0-4.0	MR
32.	Indimyt-300-A (B. G. Yellow) ⊗-2-2-1-1	2.5	3.0	3.0	2.6	2.8	2.5-3.0	MR
33.	Indimyt-145 ⊗-1-1-1-1	3.5	2.5	3.0	2.4	2.9	2.4-3.5	MR
34.	Indimyt-145 ⊗-1-2-1-1	3.0	2.5	3.5	2.6	2.9	2.5-3.5	MR
35.	HEY Pool (Extra Early) ⊗-1-1-1-1	4.0	3.5	1.5	2.6	2.9	1.5-4.0	MR
36.	PFSR (Y)-C1-A-A1 (Pink heart BG) ⊗-1 -1	2.5	3.0	3.0	2.8	2.8	2.5-3.0	MR
37.	PFSR (Y)-C1-B ⊗-1-3	3.5	2.5	2.0	2.2	2.6	2.0-3.5	MR
38.	PFSR (Y)-C0 ⊗-1-1	3.0	2.0	0.0	3.0	2.0	0.0-3.0	MR
39.	PFSR (White) ⊗-1-1	2.5	2.5	4.0	3.2	3.1	2.5-4.0	MS
40.	Indimyt-300-B (BG Golden colour) ⊗-1-1	2.5	2.5	3.0	2.0	2.5	2.0-3.0	MR
41.	Indimyt-145 ⊗-1-1	3.0	3.0	1.0	3.2	2.6	1.0-3.2	MR
42.	Indimyt-345 ⊗-1-1	2.5	3.5	3.0	3.8	-	-	-
43.	Res. Check	2.5	2.5	-	1.4	2.1	1.4-2.5	MR
44.	Sus. Local Check	3.5	4.0	3.0	3.8	3.6	3.0-4.0	MS

Contd.

Resistant Check:- MLB- SC 24 (Delhi), HQPM 1 (Karnal)

Susceptible Check:- MLB- CM 119 (Delhi), WP 2 (Ludhiana), CML 186 (Dhaulakuan), HKI 1105 (Karnal)

S. No	Genotype	Turcium leaf blight score (1-5)						
		MAND	BAJA	ALMO	ARBH	Av. Score	Range	Reaction
1.	TL02A-1184A-32-1-3-1-2-1-1	2.5	1.5	2.5	5.0	2.9	1.5-5.0	MR
2.	AF-04-B-5796-A- 7-1-2-2-1-2-1-1-1	3.5	2.5	1.5	5.0	3.1	1.5-5.0	MS
3.	Indimyt-300-B (Bold grain Golden colour)-2⊗-1-1-2-1-1	3.5	2.5	2.0	5.0	3.3	2.0-5.0	MS
4.	Indimyt-345-3⊗-2-1-1	3.0	2.5	2.0	5.0	3.1	2.0-5.0	MS
5.	PFSR (Y)-C1-A-A1 Pink heart Bold grains-2⊗-1-2-1-1-1	3.0	2.5	2.5	5.0	3.3	2.5-5.0	MS
6.	PFSR (Y)-C1-A-A1 Pink heart B.G. ⊗-1-2-1-1	4.5	2.0	2.0	5.0	3.4	2.0-5.0	MS
7.	PFSR (Y)-C1-B ⊗-1-1-1-2	3.5	3.0	1.5	5.0	3.3	1.5-5.0	MS
8.	PFSR (Y)-C1-B ⊗-2-1-1-1	4.0	2.5	2.0	5.0	3.4	2.0-5.0	MS
9.	PFSR (Y)-C1-B ⊗-2-2-1-1	3.5	2.5	2.5	4.0	3.1	2.5-4.0	MS
10.	PFSR (Y)-C0 ⊗-2-1-1-1	4.0	2.0	2.5	3.0	2.9	2.0-4.0	MR
11.	PFSR (White) ⊗-2-2-1-1	2.5	2.5	1.5	5.0	2.9	1.5-5.0	MR
12.	AF-04-B-5796-A- 7-1-2-2-1-2-2-2	3.0	2.5	1.0	4.0	2.6	1.0-4.0	MR
13.	V406 -2 ⊗-1-1 -1-1-1	2.5	2.5	1.5	3.0	2.4	1.5-3.0	MR
14.	PFSR (Y)-C1-B-1⊗-1-2-1-1-1	3.0	2.5	3.0	3.0	2.9	2.5-3.0	MR
15.	Indimyt-100-2⊗-1-2-1-1	2.0	3.0	1.5	3.0	2.4	1.5-3.0	MR
16.	Indimyt-100-2⊗-1-2-2-1	2.5	3.0	2.0	3.0	2.6	2.0-3.0	MR
17.	North east 4-1 (N)-1	3.0	2.5	1.0	2.0	2.1	1.0-3.0	MR
18.	Indimyt-145 ⊗-1-1-1-1	3.0	2.5	1.5	3.0	2.5	1.5-3.0	MR
19.	Indimyt-345 ⊗-1-1-1	4.0	2.5	1.5	4.0	3.0	1.5-4.0	MR
20.	PFSR (Y)-C1-A-A1 Pink heart B.G. ⊗-1-2-1-1	4.5	3.5	1.5	5.0	3.6	1.5-5.0	MS
21.	PFSR (Y)-C1-A-A1 Pink heart B.G. ⊗-3-1-1-1	2.5	3.0	2.5	3.0	2.8	2.5-3.0	MR
22.	PFSR (Y)-C1-A-A1 Pink heart B.G. ⊗-3-2-1-1	3.0	2.5	2.0	5.0	3.1	2.0-5.0	MS
23.	PFSR (Y)-C1-A-B1 White heart S. G. ⊗-1-2-1-1 (Good)	3.5	3.5	3.5	5.0	3.9	3.5-5.0	MS

24.	PFSR (Y)-C1-A-B1 White heart S.G. ⊗-2- 1-1-1	3.0	3.0	1.5	5.0	3.1	1.5-5.0	MS
25.	PFSR (Y)-C1-B ⊗-3- 1-1-1	4.0	2.5	1.5	5.0	3.3	1.5-5.0	MS
26.	PFSR (Y)-C1-B ⊗-3- 2-1-1	3.0	2.5	2.0	4.0	2.9	2.0-4.0	MR
27.	PFSR (White) ⊗-2-2- 1-2	3.5	3.5	1.5	4.0	3.1	1.5-4.0	MS
28.	PFSR (White) ⊗-2-2- 1-2	4.0	3.0	2.5	5.0	3.6	2.5-5.0	MS
29.	Indimyt-300-A (B. G. Yellow) ⊗-1-1-1-1	4.0	3.5	2.0	5.0	3.6	2.0-5.0	MS
30.	Indimyt-300-A (B. G. Yellow) ⊗-1-2-1-1	2.5	3.0	2.0	4.0	2.9	2.0-4.0	MR
31.	Indimyt-300-A (B. G. Yellow) ⊗-1-3-1-1 (Big)	3.0	2.0	3.0	4.0	3.0	2.0-4.0	MR
32.	Indimyt-300-A (B. G. Yellow) ⊗-2-2-1-1	4.0	2.0	3.0	3.0	3.0	2.0-4.0	MR
33.	Indimyt-145 ⊗-1-1-1- 1	3.5	2.0	3.0	4.0	3.1	2.0-4.0	MS
34.	Indimyt-145 ⊗-1-2-1- 1	4.5	2.5	3.0	5.0	3.8	2.5-5.0	MS
35.	HEY Pool (Extra Early) ⊗-1-1-1-1	3.5	3.0	3.0	5.0	3.6	3.0-5.0	MS
36.	PFSR (Y)-C1-A-A1 (Pink heart BG) ⊗-1 -1	2.5	2.5	2.0	3.0	2.5	2.0-3.0	MR
37.	PFSR (Y)-C1-B ⊗-1-3	3.0	2.0	1.5	4.0	2.6	1.5-4.0	MR
38.	PFSR (Y)-C0 ⊗-1-1	3.5	2.0	1.5	5.0	3.0	1.5-5.0	MR
39.	PFSR (White) ⊗-1-1	4.0	2.0	1.5	5.0	3.1	1.5-5.0	MS
40.	Indimyt-300-B (BG Golden colour) ⊗-1-1	3.0	2.0	4.5	5.0	3.6	2.0-5.0	MS
41.	Indimyt-145 ⊗-1-1	2.0	2.5	1.0	5.0	2.6	1.0-5.0	MR
42.	Indimyt-345 ⊗-1-1	4.0	4.5	-	-	4.3	4.0-4.5	S
43.	Sus. Check Local	4.5	4.5	-	-	4.5	4.5-4.5	S

Contd.

Susceptible Check:- TLB- 219J (Mandya); CM 202 (Bajaura)

S. No	Genotype	Banded leaf and sheath blight (1-5)						
		PANT	DELH	KARN	DHAU	Av. Score	Range	Reaction
1.	TL02A-1184A-32-1-3-1-2-1-1	4.0	3.0	3.6	3.0	3.4	3.0-4.0	MS
2.	AF-04-B-5796-A- 7-1-2-2-1-2-1-1-1	5.0	3.5	3.6	3.0	3.8	3.0-5.0	MS
3.	Indimyt-300-B (Bold grain Golden colour)-2⊗-1-1-2-1-1	3.5	4.0	2.8	3.0	3.3	2.8-4.0	MS
4.	Indimyt-345-3⊗-2-1-1	4.0	4.0	3.6	3.0	3.7	3.0-4.0	MS
5.	PFSR (Y)-C1-A-A1 Pink heart Bold grains-2⊗-1-2-1-1-1	5.0	4.0	2.8	3.0	3.7	2.8-5.0	MS
6.	PFSR (Y)-C1-A-A1 Pink heart B.G. ⊗-1-2-1-1	4.0	3.5	2.8	4.0	3.6	2.8-4.0	MS
7.	PFSR (Y)-C1-B ⊗-1-1-1-2	4.5	3.5	3.6	3.0	3.7	3.0-4.5	MS
8.	PFSR (Y)-C1-B ⊗-2-1-1-1	3.5	3.5	2.8	2.0	3.0	2.0-3.5	MR
9.	PFSR (Y)-C1-B ⊗-2-2-1-1	3.0	4.0	3.6	3.0	3.4	3.0-4.0	MS
10.	PFSR (Y)-C0 ⊗-2-1-1-1	5.0	3.5	2.8	3.0	3.6	2.8-5.0	MS
11.	PFSR (White) ⊗-2-2-1-1	3.0	4.5	4.2	2.5	3.6	2.5-4.5	MS
12.	AF-04-B-5796-A- 7-1-2-2-1-2-2-2	4.0	4.0	3.6	4.0	3.9	3.6-4.0	MS
13.	V406 -2 ⊗-1-1 -1-1-1	4.0	4.0	4.2	3.0	3.8	3.0-4.2	MS
14.	PFSR (Y)-C1-B-1⊗-1-2-1-1-1	3.5	3.0	2.0	3.0	2.9	2.0-3.5	MR
15.	Indimyt-100-2⊗-1-2-1-1	4.0	3.0	2.8	3.0	3.2	2.8-4.0	MS
16.	Indimyt-100-2⊗-1-2-2-1	3.5	3.5	3.6	1.5	3.0	1.5-3.5	MR
17.	North east 4-1 (N)-1	5.0	3.0	4.2	2.0	3.6	2.0-5.0	MS
18.	Indimyt-145 ⊗-1-1-1-1	5.0	3.5	4.2	2.0	3.7	2.0-5.0	MS
19.	Indimyt-345 ⊗-1-1-1	5.0	3.5	2.8	-	3.8	2.8-5.0	MS
20.	PFSR (Y)-C1-A-A1 Pink heart B.G. ⊗-1-2-1-1	4.5	4.0	1.2	3.0	3.2	1.2-4.5	MS
21.	PFSR (Y)-C1-A-A1 Pink heart B.G. ⊗-3-1-1-1	3.0	4.0	1.2	3.0	2.8	1.2-4.0	MR
22.	PFSR (Y)-C1-A-A1 Pink heart B.G. ⊗-3-2-1-1	5.0	4.5	1.2	3.0	3.4	1.2-5.0	MS
23.	PFSR (Y)-C1-A-B1 White heart S. G. ⊗-1-2-1-1 (Good)	5.0	4.0	4.2	2.0	3.8	2.0-5.0	MS
24.	PFSR (Y)-C1-A-B1 White heart S.G. ⊗-2-1-1-1	5.0	3.0	2.8	1.5	3.1	1.5-5.0	MS
25.	PFSR (Y)-C1-B ⊗-3-1-1-1	4.5	3.0	1.2	2.5	2.8	1.2-4.5	MR
26.	PFSR (Y)-C1-B ⊗-3-2-1-1	5.0	4.0	2.0	2.5	3.4	2.0-5.0	MS
27.	PFSR (White) ⊗-2-2-1-2	4.0	4.0	2.8	3.0	3.5	2.8-4.0	MS
28.	PFSR (White) ⊗-2-2-1-2	4.0	4.0	2.0	2.5	3.1	2.0-4.0	MS
29.	Indimyt-300-A (B. G. Yellow) ⊗-1-1-1-1	3.5	3.5	2.8	3.0	3.2	2.8-3.5	MS
30.	Indimyt-300-A (B. G. Yellow) ⊗-1-2-1-1	5.0	4.0	2.0	2.0	3.3	2.0-5.0	MS
31.	Indimyt-300-A (B. G. Yellow) ⊗-1-3-1-1 (Big)	3.0	3.5	2.0	1.5	2.5	1.5-3.5	MR
32.	Indimyt-300-A (B. G. Yellow) ⊗-2-2-1-1	4.5	3.5	4.2	3.0	3.8	3.0-4.5	MS
33.	Indimyt-145 ⊗-1-1-1-1	5.0	4.0	3.6	4.0	4.2	3.6-5.0	S
34.	Indimyt-145 ⊗-1-2-1-1	5.0	3.5	2.0	3.0	3.4	2.0-5.0	MS

35.	HEY Pool (Extra Early) ⊗-1-1-1-1	5.0	4.5	2.8	2.0	3.6	2.0-5.0	MS
36.	PFSR (Y)-C1-A-A1 (Pink heart BG) ⊗-1 -1	4.5	3.5	2.8	1.3	3.0	1.3-4.5	MR
37.	PFSR (Y)-C1-B ⊗-1-3	4.5	3.5	1.2	2.0	2.8	1.2-4.5	MR
38.	PFSR (Y)-C0 ⊗-1-1	5.0	3.5	2.0	2.0	3.1	2.0-5.0	MS
39.	PFSR (White) ⊗-1-1	5.0	4.0	2.0	3.0	3.5	2.0-5.0	MS
40.	Indimyt-300-B (BG Golden colour) ⊗-1-1	5.0	4.5	2.0	2.0	3.4	2.0-5.0	MS
41.	Indimyt-145 ⊗-1-1	5.0	4.5	2.8	1.0	3.3	1.0-5.0	MS
42.	Indimyt-345 ⊗-1-1	5.0	2.5	4.2	2.0	3.4	2.0-5.0	MS
43.	Res. check	-	-	1.8	-	1.8	1.8-1.8	R
44.	LOCAL SUSC CHECK	5.0	4.0	4.2	4.0	4.3	1.8-4.0	MS

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Resistant Check:- BLSB- HQPM-1 (Karnal)

Susceptible Check:- BLSB- CM 501 (Pantnagar), CM 501 (Delhi), HKI 1105 (Karnal), CML 186 (Dhaulakuan)

S. No	Genotype	C. Rot	C.Rust	SDM	P. Rust	BSR
		(1-9)	(1-5)	(%)	(1-5)	(%)
		LUDH	ARBH	MAND	MAND	DHU
1.	TL02A-1184A-32-1-3-1-2-1-1	5.2	4.0	100.00	2.5	0.0
2.	AF-04-B-5796-A- 7-1-2-2-1-2-1-1-1	5.2	4.0	100.00	2.5	0.0
3.	Indimyt-300-B (Bold grain Golden colour)- 2⊗-1-1-2-1-1	3.3	5.0	100.00	3.5	0.0
4.	Indimyt-345-3⊗-2-1-1	7.3	5.0	100.00	3.0	60.0
5.	PFSR (Y)-C1-A-A1 Pink heart Bold grains- 2⊗-1-2-1-1-1	4.7	5.0	100.00	2.5	12.5
6.	PFSR (Y)-C1-A-A1 Pink heart B.G. ⊗-1-2-1- 1	3.2	4.0	100.00	3.5	0.0
7.	PFSR (Y)-C1-B ⊗-1-1-1-2	5.0	5.0	83.33	3.0	12.5
8.	PFSR (Y)-C1-B ⊗-2-1-1-1	4.7	5.0	85.71	2.5	0.0
9.	PFSR (Y)-C1-B ⊗-2-2-1-1	6.7	5.0	100.00	3.0	0.0
10.	PFSR (Y)-C0 ⊗-2-1-1-1	7.4	4.0	100.00	2.5	40.0
11.	PFSR (White) ⊗-2-2-1-1	3.2	4.0	100.00	4.0	16.7
12.	AF-04-B-5796-A- 7-1-2-2-1-2-2-2	7.0	5.0	66.67	2.5	11.1
13.	V406 -2 ⊗-1-1 -1-1-1	2.8	4.0	100.00	3.5	14.3
14.	PFSR (Y)-C1-B-1⊗-1-2-1-1-1	3.4	4.0	100.00	3.0	20.0
15.	Indimyt-100-2⊗-1-2-1-1	5.5	3.0	100.00	2.0	25.0
16.	Indimyt-100-2⊗-1-2-2-1	4.0	4.0	33.00	2.5	42.9
17.	North east 4-1 (N)-1	4.4	3.0	50.00	2.0	0.0
18.	Indimyt-145 ⊗-1-1-1-1	4.7	3.0	100.00	3.0	25.0
19.	Indimyt-345 ⊗-1-1-1	4.4	3.0	100.00	3.0	14.2
20.	PFSR (Y)-C1-A-A1 Pink heart B.G. ⊗-1-2-1- 1	9.0	3.0	100.00	3.0	14.2
21.	PFSR (Y))-C1-A-A1 Pink heart B.G. ⊗-3-1- 1-1	4.7	5.0	100.00	3.5	100.0
22.	PFSR (Y))-C1-A-A1 Pink heart B.G. ⊗-3-2- 1-1	4.0	5.0	100.00	3.0	0.0
23.	PFSR (Y)-C1-A-B1 White heart S. G. ⊗-1-2- 1-1 (Good)	3.7	4.0	100.00	1.5	0.0
24.	PFSR (Y)-C1-A-B1 White heart S.G. ⊗-2-1- 1-1	2.8	5.0	100.00	2.0	0.0
25.	PFSR (Y)-C1-B ⊗-3-1-1-1	6.2	5.0	100.00	3.5	0.0
26.	PFSR (Y)-C1-B ⊗-3-2-1-1	3.3	5.0	100.00	2.5	0.0
27.	PFSR (White) ⊗-2-2-1-2	3.5	5.0	100.00	3.0	0.0
28.	PFSR (White) ⊗-2-2-1-2	6.5	4.0	100.00	3.5	0.0
29.	Indimyt-300-A (B. G. Yellow) ⊗-1-1-1-1	5.5	4.0	100.00	3.5	25.0
30.	Indimyt-300-A (B. G. Yellow) ⊗-1-2-1-1	4.2	5.0	100.00	3.0	0.0
31.	Indimyt-300-A (B. G. Yellow) ⊗-1-3-1-1 (Big)	4.0	5.0	100.00	3.5	0.0
32.	Indimyt-300-A (B. G. Yellow) ⊗-2-2-1-1	5.0	5.0	100.00	2.0	22.2
33.	Indimyt-145 ⊗-1-1-1-1	4.0	5.0	100.00	2.0	0.0
34.	Indimyt-145 ⊗-1-2-1-1	9.0	4.0	100.00	2.5	0.0
35.	HEY Pool (Extra Early) ⊗-1-1-1-1	4.2	4.0	100.00	3.0	0.0
36.	PFSR (Y)-C1-A-A1 (Pink heart BG) ⊗-1 -1	5.0	5.0	100.00	3.5	0.0

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37.	PFSR (Y)-C1-B ⊗-1-3	3.8	5.0	100.00	2.0	0.0
38.	PFSR (Y)-C0 ⊗-1-1	4.0	4.0	100.00	2.5	50.0
39.	PFSR (White) ⊗-1-1	4.0	5.0	100.00	2.5	0.0
40.	Indimyt-300-B (BG Golden colour) ⊗-1-1	2.3	5.0	25.00	3.0	0.0
41.	Indimyt-145 ⊗-1-1	3.1	5.0	100.00	3.5	0.0
42.	Indimyt-345 ⊗-1-1	4.7	5.0	100.00	3.0	0.0
43.	LOCAL SUSC CHECK	6.0	-	100.00	4.0	25.0

Susceptible Check:- C. ROT- CM501 (Ludhiana), SDM, CM 500 (Mandya), P.RUST- 219 J (Mandya), BSR- CML 186 (Dhaulakuan)

Table 15. Disease screening of inbred lines of maize against FSR, CLS, RDM and cyst nematode at Udaipur

Sl. No	Entry No.	PFSR	CLS	RDM	cyst/ plant
		(1-9)	(1-5)	%	(n=5)
1.	EHQ-63	1.9	2.0	38.0	10-17
2.	EI-561-1	4.0	2.0	20.0	13-21
3.	EIQ-101	2.6	1.5	100.0	20-27
4.	EIQ-104	3.0	3.5	77.0	8-14
5.	EIQ-103	7.4	1.5	100.0	15-21
6.	EIQ-102	7.5	3.0	0.0	24-31
7.	EH-2384	2.7	1.0	38.0	5-8
8.	EH-2371	2.9	0.5	18.0	4-9
9.	EH-2410	2.8	1.0	94.0	5-11
10.	EH-2376	4.3	1.5	69.0	10-16
11.	EH-2384	3.8	1.5	0.0	6-9
12.	EH-2240	4.0	2.0	19.0	10-18
13.	EH-2380	5.1	0.5	79.0	9-16
14.	EH-2233	3.4	0.5	75.0	8-13
15.	EH-2401	3.7	1.5	25.0	9-15
16.	EH-2391	3.1	2.0	100.0	5-11
17.	CLQRCY-40	3.6	2.0	85.0	14-22
18.	EI-1126	2.6	1.5	0.0	10-15
19.	BML-6	2.4	1.0	36.0	9-17
20.	EI-561-2	2.2	1.0	20.0	7-16
21.	EI-1157	2.9	0.5	83.0	8-14
22.	EI-586-3	2.9	1.0	13.0	12-20
23.	EI-586-1	3.0	0.0	88.0	8-15
24.	HM-9	2.1	2.0	66.0	18-27
25.	EI-1105	3.4	1.0	83.0	7-15
26.	EI-1122	2.6	1.0	27.0	12-18
27.	EH-2234	2.2	2.0	9.0	13-22
28.	HKI-193-1	3.6	2.0	18.0	22-31
29.	Surya (Local Sus. Check)	8.8	4.5	100.0	26-33

Table 16. Disease screening of maize inbred lines against TLB at Mandya

Sl. No.	Pedigree	TLB (1-5)	Sl. No.	Pedigree	TLB (1-5)
1	NAI-102-X-MA-2013K	2.0	40	NAI-197-X-MA-2013K	2.0
2	NAI-104-X-MA-2013K	2.5		219J	4.5
3	NAI-109-X-MA-2013K	3.0	41	NAI-199-X-MA-2013K	3.5
4	NAI-113-X-MA-2013K	3.0	42	NAI-204-X-MA-2013K	2.5
5	NAI-116-X-MA-2013K	2.0	43	NAI-207-X-MA-2013K	2.0
6	NAI-117-#-MA-2013K	3.0	44	NAI-208-#-MA-2013K	2.5
7	NAI-123-#-MA-2013K	3.0	45	NAI-209-X-MA-2013K	2.0
8	NAI-124-X-MA-2013K	2.5	46	NAI-212-#-MA-2013K	4.5
9	NAI-125-X-MA-2013K	3.0	47	NAI-213-X-MA-2013K	4.0
10	NAI-127-X-MA-2013K	3.0	48	NAI-214-2-X-MA-2013K	2.5
	219J	4.5	49	NAI-215-X-MA-2013K	3.5
11	NAI-137-X-MA-2013K	2.0	50	NAI-217-1-#-MA-2013K	4.5
12	NAI-138-#-MA-2013K	2.0		219J	4.0
13	NAI-139-X-MA-2013K	3.0	51	NAI-218-10-X-MA-2013K	3.0
14	NAI-142-X-MA-2013K	2.0	52	NAI-219-4-X-MA-2013K	3.5
15	NAI-143-X-MA-2013K	2.5	53	NAI-221-7-X-MA-2013K	3.0
16	NAI-147-X-MA-2013K	2.5	54	NAI-222-4-X-MA-2013K	3.0
17	NAI-154-X-MA-2013K	2.5	55	NAI-224-6-X-MA-2013K	2.5
18	NAI-158-X-MA-2013K	3.0	56	NAI-225-3-X-MA-2013K	4.0
19	NAI-161-X-MA-2013K	2.0	57	NAI-226-X-MA-2013K	2.5
20	NAI-162-X-MA-2013K	3.0	58	NAI-227-X-MA-2013K	3.0
	219J	4.0	59	NAI-228-X-MA-2013K	4.0
21	NAI-165-X-MA-2013K	3.0	60	MAI-105-X-MA-2013K	2.5
22	NAI-167-X-MA-2013K	4.0		219J	4.5
23	NAI-169-X-MA-2013K	3.0	61	MAI-110-X-MA-2013K	2.5
24	NAI-170-#-MA-2013K	3.0	62	MAI-112-X-MA-2013K	3.5
25	NAI-171-X-MA-2013K	4.0	63	KUI-1411-X-MA-2013K	2.0
26	NAI-173-X-MA-2013K	4.0	64	KUI-1411a-X-MA-2013K	2.0
27	NAI-174-X-MA-2013K	3.0	65	CM-114-X-MA-2013K	2.0
28	NAI-175-X-MA-2013K	2.0	66	CM-118-X-MA-2013K	3.0
29	NAI-176-X-MA-2013K	2.0	67	CM-122-X-MA-2013K	3.0
30	NAI-177-X-MA-2013K	4.0	68	CM-123-X-MA-2013K	3.0
	219J	4.5	69	CM-131-X-MA-2013K	3.5
31	NAI-178-X-MA-2013K	3.0	70	CM-132-X-MA-2013K	2.0
32	NAI-179-X-MA-2013K	2.0		219J	4.0
33	NAI-180-X-MA-2013K	2.5	71	CM-137-X-MA-2013K	4.0
34	NAI-181-X-MA-2013K	4.0	72	CM-139-X-MA-2013K	4.5
35	NAI-188-X-MA-2013K	3.5	73	CM-142-X-MA-2013K	4.0
36	NAI-190-X-MA-2013K	3.5	74	CM-145-X-MA-2013K	3.5
37	NAI-191-X-MA-2013K	3.5	75	CM-205-X-MA-2013K	4.5
38	NAI-193-X-MA-2013K	4.0	76	NAB-(Y)-2-X-MA-2013K	4.0
39	NAI-194-X-MA-2013K	4.0	77	WINPOP-21-X-MA-2013K	4.0
78	WINPOP-26-X-MA-2013K	3.0	112	CML-480-#-MA-2013K	3.5
79	WINPOP-45-X-MA-2013K	4.0	113	CML-481-X-MA-2013K	3.5
80	WINPOP-47-X-MA-2013K	4.5	114	HKI-PC-5-X-MA-2013K	4.0
	219J	4.5	115	HKI-PC-7-X-MA-2013K	3.0
81	POP-61CI-QPMTEYE-X-	2.5	116	HKI-163-X-MA-2013K	2.0

	MA-2013K				
82	POP-446CI-X-MA-2013K	3.0	117	HKI-164-X-MA-2013K	3.5
83	DMSC-4-X-MA-2013K	4.5	118	HKI-164-7-2-X-MA-2013K	3.5
84	DMSC-8-X-MA-2013K	3.5	119	HKI-193-1-X-MA-2013K	3.0
85	DMSC-14-#-MA-2013K	3.5	120	HKI-209-X-MA-2013K	4.0
86	DMSC-15-X-MA-2013K	4.5		219J	3.5
87	DMSC-18-X-MA-2013K	4.5	121	HKI-PC-413-X-MA-2013K	4.0
88	DMSC-19-X-MA-2013K	4.0	122	HKI-488-#-MA-2013K	3.0
89	DMSC-20-#-MA-2013K	4.0	123	HKI-577-X-MA-2013K	NG
90	DMSC-24-X-MA-2013K	4.5	124	HKI-1040-#-MA-2013K	2.5
	219J	4.0	125	HKI-1040-5-X-MA-2013K	4.0
91	DMSC-28-X-MA-2013K	3.0	126	HKI-1344-X-MA-2013K	3.0
92	DMSC-36-X-MA-2013K	3.5	127	HKI-5072-2-BJ-X-MA-2013K	4.5
93	JCY-2-7-1-X-MA-2013K	3.0	128	POOL-16-X-MA-2013K	3.0
94	V-351-X-MA-2013K	2.5	129	DM-HOC-1-X-MA-2013K	3.0
95	U-139-X-MA-2013K	2.5	130	DM-HOC-14-X-MA-2013K	3.0
96	U-295-X-MA-2013K	3.5		219J	4.0
97	U-298-X-MA-2013K	4.5	131	DM-HOC-15-X-MA-2013K	4.0
98	U-488-X-MA-2013K	3.0	132	CLQ-RC-X-MA-2013K	4.0
99	U-536-X-MA-2013K	3.0	133	CLQ-PCY-#-MA-2013K	3.5
100	CML-134-X-MA-2013K	4.0	134	V-341-X-MA-2013K	4.5
	219J	4.5	135	DMR-QPM-58-X-MA-2013K	4.0
101	CML-154-X-MA-2013K	4.0	136	AQO-3134-B-B-X-MA-2013K	4.0
102	CML-247-X-MA-2013K	2.5	137	HP-36-4-X-MA-2013K	3.0
103	CML-248-X-MA-2013K	2.0	138	HP-35-X-MA-2013K	3.0
104	CML-300-X-MA-2013K	4.5	139	WEP-1-X-MA-2013K	3.5
105	CML-336-X-MA-2013K	4.0	140	WEP-6-X-MA-2013K	3.5
106	CML-360-X-MA-2013K	2.0		219J	4.5
107	CML-363-X-MA-2013K	3.5	141	LM-5-X-MA-2013K	3.5
108	CML-404-X-MA-2013K	4.0	142	ENT-1-X-MA-2013K	4.0
109	CML-410-X-MA-2013K	3.0	143	SHD-1ER-6-X-MA-2013K	3.5
110	CML-413-X-MA-2013K	4.0	144	POBLAC-616-X-MA-2013K	2.5
	219J	4.5		219J	4.5
111	CML-436-X-MA-2013K	4.0			

Table 17. Assessment of avoidable yield loss due to TLB at Almora

Season	: Kharif	Row No.	: 4
Treatment	2	Hybrid	: Vivek Hybrid 5
Replication	: 9	Plot size	: 2.2 x 2.4 m
Date of Sowing	: 20.06.14	Date of Observation	: 04.09.14
Date of Inoculation	: 15.07.14	Date of Harvesting	: 04.10.14

Replication	Treatment	Rating scale (1-5)	Yield (kg/ha)	Percent loss in yield (%)
R1	Protected	2.4	5675	16.03
	Unprotected	4.1	4765	
R2	Protected	2.2	5565	18.33
	Unprotected	4.1	4545	
R3	Protected	2.2	5641	17.72
	Unprotected	4.3	4641	
R4	Protected	2.3	5605	18.55
	Unprotected	4.3	4565	
R5	Protected	2.2	5568	19.88
	Unprotected	4.1	4461	
R6	Protected	2.2	5546	16.25
	Unprotected	4.2	4645	
R7	Protected	2.2	5465	15.08
	Unprotected	4.2	4641	
R8	Protected	2.1	5641	17.07
	Unprotected	4.2	4678	
R9	Protected	2.1	5578	16.01
	Unprotected	4.3	4685	
Avoidable yield loss =				17.21

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Table 18. Assessment of avoidable yield loss due MLB, CLS and BLSB at Dhaulakuan

Replication	Disease intensity (%)						Yield (q/ha)	
	Maydis leaf blight		Curvularia Leaf Spot		Banded Leaf and Sheath Blight			
	T1(UT)	T2 (T)	T1 (UT)	T2 (T)	T1 (UT)	T2 (T)	T1 (UT)	T2 (T)
R1	61.6	24.9	61.6	22.7	29.8	21.5	1843.6	2961.8
R2	71.2	40.8	56.8	27.1	49.2	22.0	2036.0	2996.0
R3	42.0	31.6	30.0	28.5	26.4	22.0	2556.0	3780.0
R4	73.3	51.7	53.2	40.0	41.8	23.8	2282.0	3639.0
R5	40.0	32.6	24.3	20.0	20.0	22.4	2480.0	4236.4
R6	77.7	45.9	46.9	35.0	20.0	20.0	2678.0	3708.4
R7	50.6	30.6	28.3	20.0	20.0	22.4	2394.0	3832.0
R8	71.7	37.5	33.1	33.3	33.1	28.3	2288.0	4020.0
R9	40.0	32.0	20.0	26.0	20.0	20.0	2936.9	4400.0
Mean	58.7	36.4	39.4	28.1	28.0	23.4	2388.3	3730.4
Disease control (%)		37.97		28.68		16.61		
Avoidable yield losses (%)								35.98
CD 5%								3.18
CV %								9.00

Variety; 30 P0V 92

Contd.

Table 19. Occurrence of diseases in trap nursery trial

Maydis leaf blight score (1-5)										
S.No	Inbred Line	DHOL	KARN	UDAI	PANT	DELH	LUDH	BAJA	BHUB	DHAU
1	WINPOP2	5.0	3.0	4.0	3.5	1.5	3.0	4.5	2.0	3.0
2	CM202	4.0	1.2	2.0	3.5	1.5	3.0	2.5	1.0	2.0
3	CM119	NG	3.2	1.5	5.0	2.5	4.0	NG	2.0	2.0
4	ITNA004	NG	2.2	2.5	4.0	3.5	4.0	2.0	1.0	NG
5	CM111	4.0	3.8	2.5	3.5	2.0	4.0	2.0	1.0	1.5
6	CM500	4.0	3.8	2.5	2.5	2.0	4.5	-	1.0	2.5
7	CM501	3.0	1.8	1.5	4.0	2.0	3.5	2.0	2.0	2.0
8	SC 24-2-1	NG	3.2	2.5	3.5	2.0	4.0	2.5	1.0	3.0
9	SC 24-1-2-6	3.0	3.0	2.5	-	1.5	2.5	-	1.0	NG
10	DMSC 8	3.0	3.2	2.0	3.5	2.0	1.5	1.5	1.0	3.0
11	Res. Check	-	-	-	-	1.5	-	-	-	-
12	Sus. Check	4.0	4.2	1.5	4.0	4.0	4.5	3.0	2.0	-

Resistant Check: MLB:-SC 24-(92)-3-2-1-1(DELHI)

**Susceptible Check :MLB:- CML 186(DHOLI), HKI 536CBT (KARNAL); SURYA (UDAIPUR); CM 600 (PANTNAGAR);
CM 600 (DELHI); CM 600 (LUDHIANA); CM 202 (BAJAURA); P3441 (BHUBNESWAR)**

Contd.

Turcicum leaf blight score (1-5)								
S.No	Inbred Line	BAJA	MAND	ALMO	COIM	ARBH	BHUB	PANT
1	WINPOP2	5.0	2.5	4.0	1.0	4.0	2.0	3.0
2	CM202	4.5	2.0	3.0	1.0	4.0	3.0	-
3	CM119	NG	2.5	1.5	1.0	3.0	3.0	-
4	ITNA004	3.0	2.5	3.5	1.0	5.0	2.0	-
5	CM111	-	3.0	1.5	1.0	3.0	2.0	-
6	CM500	3.5	3.5	2.5	1.0	3.0	3.0	-
7	CM501	3.0	3.0	1.5	1.0	3.0	3.0	-
8	SC 24-2-1	1.5	3.0	2.5	1.0	5.0	3.0	2.5
9	SC 24-1-2-6	2.0	3.5	1.5	1.0	2.0	2.0	-
10	DMSC 8	2.5	3.0	3.5	1.0	3.0	2.0	-
11	Res. Check	-	-	-	-	-	-	-
12	Sus. Check	4.5	4.5	-	1.0	4.0	3.0	-

Susceptible Check :TLB:- CM 202 (BAJAURA); P3441 (BHUBNESWAR); CM 202 (MANDYA)
 CM 202 (ARBHAVI); CM 500 (COIMBATORE)

Contd.

S.No	Inbred Line	Banded leaf and sheath blight score							BSDM	C. ROT			PFSR
		KARN	UDAI	PANT	LUDH	BAJA	BHUB	DHAU	(1-5)	(1-9)	(%)	(1-9)	
1	WINPOP2	4.2	0.0	2.0	4.0	-	2.5	3.0	2.0	2.8	5.5	63.63	5.0
2	CM202	2.2	0.5	5.0	0.0	-	3.5	2.0	0.0	1.5	7.2	80.00	3.5
3	CM119	4.0	2.0	5.0	3.0	NG	4.0	2.0	0.0	1.9	0.0	100.00	6.0
4	ITNA004	3.8	0.0	5.0	0.0	-	3.5	NG	0.0	1.6	8.0	100.00	8.0
5	CM111	4.2	1.5	-	3.0	-	3.0	2.5	0.0	2.1	9.0	75.00	9.0
6	CM500	4.0	1.0	5.0	0.0	-	3.5	3.0	3.0	3.8	7.5	44.44	7.0
7	CM501	2.6	2.5	4.0	3.0	-	3.5	2.0	0.0	2.3	6.8	66.66	6.0
8	SC 24-2-1	3.2	1.5	3.0	2.5	-	4.0	3.0	0.0	1.9	8.2	28.57	8.0
9	SC 24-1-2-6	3.0	1.0	5.0	2.5	-	2.5	NG	2.5	2.3	9.0	60.00	8.0
10	DMSC 8	3.0	1.5	3.5	2.0	-	3.5	2.0	-	3.5	3.0	66.66	6.0
11	Res. Check	-	-	-	-	-	-	-	-	2.6	-	87.50	-
12	Sus. Check	4.0	0.0	3.5	4.5	3.5	4.0	-	-	4.0	7.7	81.81	8.0

Resistant Check:C.ROT:- SC24-(92)-3-2-1-1(DELHI); JCY 2-7 (HYDERABAD)

Susceptible Check :BLSB:-HKI 536CBT (KARNAL); SURYA(UDAIPUR); CM 600(PANTNAGAR); CM 202 (BAJAURA);

P3441 (BHUBNESWAR); **C.ROT:-**BML 6 (HYDERABAD); CM 600 (DELHI); LTP 1-B-B (LUDHIANA);

PFSR:-SURYA (UDAIPUR)

Contd.

S.No	Inbred Line	SDM	CLS					RDM	Brown Spot	P. RUST
		(%)	(1-5)					(%)	(1-5)	(1-5)
		COIM	UDAI	BAJA	PANT	KARN	DHAU	UDAI	UDAI	MAND
1	WINPOP2	33.3	1.5	-	5.0	1.2	2.3	8.0	1.5	3.0
2	CM202	6.7	1.0	-	-	2.2	2.0	5.0	1.0	3.0
3	CM119	0.0	1.0	NG	-	2.0	3.0	5.0	1.0	3.5
4	ITNA004	0.0	2.5	-	-	1.8	NG	10.0	1.5	3.0
5	CM111	40.0	1.5	-	3.0	2.0	2.0	15.0	1.5	3.5
6	CM500	46.7	1.5	2.5	5.0	1.2	2.0	10.0	1.5	3.5
7	CM501	100.0	1.0	-	3.5	1.4	2.0	10.0	1.0	3.5
8	SC 24-2-1	6.7	2.5	-	-	2.0	3.0	25.0	1.0	3.0
9	SC 24-1-2-6	-	1.5	-	3.5	1.2	NG	30.0	1.5	3.5
10	DMSC 8	20.0	2.5	-	-	2.2	1.5	40.0	-	4.0
11	Res. Check	-	-	-	-	-	-	-	-	-
12	Sus. Check	40.0	1.0	-	4.0	1.6	-	60.0	1.5	5.0

**Susceptible Check :SDM:- CM 500 (COIMBATORE); CLS:-HKI 1105 (KARNAL); SURYA (UDAIPUR);
AMAR (PANTNAGAR); RDM:- SURYA (UDAIPUR); BROWN SPOT:- SURYA (UDAIPUR);**

P.RUST:- 219J (MANDYA)

Contd.

		C.RUST	P.RUST	BSR	BSR	Other Diseases
		(1-5)	(1-5)		(1-5)	
S.No	Inbred Line	ARBH	COIM	LUDH	DHAU	MAND
1	WINPOP2	4.0	0.0	6.5	0.5	Maydis Leaf Blight
2	CM202	4.0	3.0	12.5	1.0	-
3	CM119	4.0	0.0	0.0	0.0	-
4	ITNA004	5.0	1.0	0.0	NG	Maydis Leaf Blight
5	CM111	4.0	3.0	18.8	0.0	-
6	CM500	1.0	0.0	18.8	1.0	Curvularia Leaf Spot, Post Flowering Stalk Rot
7	CM501	4.0	0.0	12.5	5.0	-
8	SC 24-2-1	2.0	0.0	25.0	2.0	Curvularia Leaf Spot, Post Flowering Stalk Rot
9	SC 24-1-2-6	3.0	0.0	12.5	NG	-
10	DMSC 8	2.0	0.0	0.0	0.0	Phaeospharia Leaf Spot
11	Res. Check	-	-	-	-	-
12	Sus. Check	4.0	0.0	6.5	-	-

Susceptible Check : C.RUST:- CM 202 (ARBHAVI); BSR:- LTP 1-B-B (LUDHIANA);

Table 20. Survey and surveillance of maize diseases in Odisha

Season: Kharif, 2014

State : Odisha

Zone : III

S.N.	Place		Dated	Area (ha)	Variety/ Hybrid	Crop stage		Foliar diseases					
	District	Village, Block				Veg. Stage	Grain filling Stage	TLB (1-5)	PDI	MLB (1-5)	PDI	BLSB (1-9)	PDI
1	Angul	Ogi Chhendipada	11.09.2014	10	Hybrid	✓	✓	2.0	40	2.5	50	3.0	60
		Jarpada, Angul		5	Hybrid	✓	✓	-		2.0	40	3.5	70
		Tulasipal, Banrpal		7	Hybrid	✓	✓	1.5	30	2.5	50	3.0	60
2	Dhenkanal	Paramhanspur, Parjanga	11.09.2014	12	Hybrid	✓	✓	2.0	40	1.5	30	4.0	80
		Badagila, Dhenkanal		6	Hybrid	✓	✓	-	--	2.0	40	4.0	80
		Dadhikhai, Kamakhyanagar		8	Hybrid	✓	✓	-	-	2.0	40	3.5	70
3	Kalahandi	Jamjore, Kesinga	22.09.2014	15	Hybrid	✓	✓	-		2.5	50	3.0	60
		Kuskella Narla		8	Hybrid	✓	✓	1.0	20	2.0	40	3.0	60
		Kusumdar Bhawanipatna		8	Hybrid	✓	✓	-		2.0	40	3.0	60

In Bhubaneswar, extensive surveys were conducted in maize growing areas of three districts viz., Angul, Dhenkanal and Kalahandi covering 17 village/block during vegetative and grain filling stage of commonly cultivated maize hybrids. Banded leaf and sheath blight (BLSB) was the most predominant diseases with moderate to severe disease incidence from 3.0 to 4.0 with PDI up to 80. Incidence of Maydis leaf blight (MLB) was moderate (1.5-2.5) with PDI up to 50, whereas the incidence of Turcicum Leaf Blight (TLB) was in traces with PDI up to 40.

Table 21. Survey and surveillance of maize diseases in Punjab

S.No.	District	Crop Stage	Foliar diseases			Stalk rots	
			MLB	BLSB	BSDM	BSR	PFSR
1.	Hoshiarpur	Knee high and grain filling stage	Moderate	Moderate to high	-	Moderate	Low to Moderate
2.	Ludhiana	Knee high and grain filling stage	Moderate	Moderate	-	Low	Low
3.	Shaheed Bhagat Singh Nagar	Knee high and grain filling stage	Moderate	Moderate to High	-	Moderate	Low to Moderate
4.	Jalandhar	Knee high and grain filling stage	Low to Moderate	Moderate	-	Low	Low
5.	Ropar	Knee high and grain filling stage	Low to Moderate	Moderate	-	Low to Moderate	Low
6.	Gurdaspur	Knee high and grain filling stage	Moderate	Moderate to High	Traces	Moderate	Low

MLB- Maydis Leaf Blight**BLSB-** Banded leaf and Sheath blight**BSDM-** Brown Stripe Downy Mildew**BSR-**Bacterial stalk rot**PFSR-** Post flowering stalk rots

In Punjab a total of five districts viz., Hoshiarpur, Ludhiana, Shaheed Bhagat Singh Nagar, Jalandhar, Ropar and Gurdashpur were surveyed by Ludhiana centre. Disease incidence in maize crop recorded at knee high and grain filling stages. The most common disease of these areas was MLB recorded from low to moderate, BLSB from moderate to severe. Incidence of Bacterial Stalk Rot (BSR) was observed from low to moderate and Post Flowering Stalk Rot (PFSR) from low to moderate. Brown Strip Downy mildew (BSDM) was noticed in traces from Gurdaspur.

Table 22. Survey and surveillance of maize diseases in Uttarakhand

Season: Kharif: 2014
State : Uttarakhand

Zone : 2
Centre : Pantnagar

Sl. No	Place	Date	No. of field surveyed	Crop stage	Foliar diseases Scale (1-5)				Remarks
				Grain filling stage	MLB	TLB	BL& SB	CLS	
1.	Haldwani	09.10.2014	26	yes	3.0	3.5	3.0	2.0	During the survey BSDM was not observed.
2.	Kashipur	09.10.2014	20	yes	3.5	3.0	3.5	2.0	
3.	Haridwar	10.10.2014	30	yes	3.0	2.0	-	1.0	
4.	Dehradun	10.10.2014	305	yes	5.0	4.5	-	2.0	

MLB = Maydis leaf blight
TLB = Turicum leaf blight

BL&SB = Banded leaf & sheath blight
CLS = Curvularia leaf spot

Pantnagar and Almora region were surveyed in Uttarakhand. A total of 381 fields were surveyed from Pantnagar covering Haldwani, Kashipur, Haridwar and Dehradun at grain filling stages. The diseases recorded in severe condition in these areas were MLB, TLB and BLSB, as the incidence recorded up to 4.5. Curvularia Leaf Spot (CLS) noticed in all these areas but in traces. Brown Stripe Downey Mildew was not observed during survey. At Almora and nearby areas the incidence of TLB was low this year due to delayed and erratic rainfall during the cropping season. A survey was conducted in Bimola, Dhamus, Nola, Dohra, Shitlakhet, Majkhali, Basulicera, Someswar, Devsthal and Ravolicera areas. In most of the maize fields TLB was the most predominant and appeared in low to moderate form (20-30%).

Table 23 Survey and surveillance of maize diseases in Himachal Pradesh

Systematic surveys were conducted under survey and surveillance programme in maize growing areas of Mandi, Kullu and Bilaspur district of Himachal Pradesh during Kharif, 2014. The most common diseases of these areas were Turcicum Leaf Blight (TLB), Banded leaf and sheath blight (BLSB) and Maydis leaf blight. Brown spot and curvularia leaf spot diseases of maize were of minor importance.

District/Disease	Turcicum Leaf Blight	Banded Leaf and Sheath Blight	Maydis Leaf Blight	Brown Spot	Curvularia Leaf Spot
Mandi	Moderate	High	Moderate	Low	Low
Kullu	Moderate to High	Moderate to High	Low to Moderate	Low	Low
Bilaspur	Moderate	Moderate to High	Moderate to High	Low	Low

Location (height amsl)	Variety	Reaction to diseases (1-5)					
		Maydis leaf blight incidence (%)	Banded leaf and sheath blight (%incidence)	Curvularia leaf spot (%incidence)	Brown spot	BSR (%incidence)	Turcicum leaf blight
District Sirmour							
Nihal garh	DAC 7074	Tr	2-3 (60)	Tr	-	-	-
	Local	Tr	2-3 (70)				
Kartarpur	Local	3-4 (60%)	Tr				
	Hybrid 740	2-3 (10)	3-4 (10)			Tr	
Shivpur						10	
Akalgarh	KH 517	Tr	2-3 (80)			12	
Kollar	Local	3-4 (80)	2 (10)	2-3 (20)	Tr	5	
Ladu (1249)	Local	2-3 (10)	2 (10)			Tr	
Shatri (875)	Hybrid		2 (Tr)	Tr			*2-3 (20)
	Local	3-4 (60)	3-4 (10)	Tr	1-2		*2-3 (5)
Kahan (1583)	Hybrid	Tr	2-3 (30)		Tr		*1.1-2 (5)
	Local		2-3 (10)				2-3 (5)
Karchhia(1412)	Local	3-4 (60)	2-3 (25)	3-4 (100)			3-4 (10)
	Hybrid	1.5-3 (20)		Tr			2-3 (Tr)

Contd.

Kano	Local	Tr	Tr			Tr	Tr
District Solan							
Subathoo	Local	2-3 (60)	2-3 (10)	Tr	Tr		2 (5)
Jadli (900)	Local	2-3 (60)	Tr	Tr	Tr		1-2 (5)
District Bilaspur							
Kunihar	Local	2-3 (100)	2 (20)	1-2	Tr	Tr	3-4 (20)
	Hybrid	2-2.5 (tr)	1.5-2 (60)	Tr	1-2 (10)		
Piplughat	Local	Tr	2-3 (20)	Tr	Tr	5	Tr
Damla ghat	Hybrid	2-3 (90)	2-3 (20)	2-3	2	2	Tr
Namhol	Local	2-2.5 (10)	2-3 (30)	Tr	Tr		
Jukhala	Hybrid	Tr	3-4 (40)	Tr	Tr		
Braham Pukhar	Local	1.5-2 (100)	2-3 (60)	2 (100)	Tr		
Ghagas	Local	1.5-2 (80)	2-3 (100)	2-3 (60)	1-2 (1)	Tr	
Bagher	Local	3-4 (100)			2-3 (100)	1	
Amarpura	Local	3-4 (100)	3-4 (40)	2-3 (100)	Tr	5	
Berthin		3-4 (20)	3-4 (60)	2-3 (100)	Tr		
Jhamrarian	Local	3-4 (100)	3-4 (60)	2-3 (100)	1-2 (10)	5	
Giarah Ganv	Local	3-4 (100)	2-3 (60)	2-3 (10)	2-3 (20)	Tr	
District Hamirpur							
Karer			2-4 (40)	Tr	Tr	10	
Bhota						1	
Bhira	Local	3-4 (100)	2-3 (25)		2 (20)		
Kuthera						2	
District Kangra							
Alampur	Local	3-4 (100)	2-3 (15)		2 (20)	2	
Thural	Local	3-4 (100)			Tr	2	
Droh	Local	3-4 (100)	3-4 (40)	2-3 (100)	Tr	2	
Palampur	(Breeding)	1.5-4 (10)			3-4		1.5-4

Contd.

	Girija (Organic)	3-4 (15)			2-3 (5)		2-3 (60)
Malan	Local	Tr	2-3 (10)		2-3 (10)		
Kangra	Sweet Corn	3-4	Tr	2-3			
	Popcorn	2-3	2-4	2-3	3	10	
Ranital	Local	3-4 (60)	3-4 (25)	Tr	Tr	1	
Baglamukhi	Local	3-4 (50)	2-3 (10)	Tr	Tr	1	
Mangarh	Local	3-4 (80)	2-3 (30)	Tr	Tr	1	
District Una							
Duki	Hybrid	1-2 (5)	2-3 (20)	2	Tr	2	
	Local	100 (80)	1.5-2 (20)	2	Tr	2	
Akrot	Hybrid	1-2 (5)	3-4(25)	2-3 (20)	Tr	1	
Tkarala	Hybrid	Tr	3-4 (25)	2-3 (10)	Te	2	
Panog	Hybrid	Tr				1	1
Dehlan	Local	3-4 (90)	3-4 (20)	2	Tr	1	

Tr= disease in traces, BSR= Bacterial stalk rot

In Himachal Pradesh extensive surveys were conducted in maize growing areas covering districts Sirmour, Solan, Bilaspur, Hamirpur, Kangra Una, Nihal garh, Kartarpur, Shivpur, Akalgarh, Kollar, Ladu (1249), Shatri (875), Karchhia (1412), Kano, Bajaura, Mandi and Kullu were covered. The varieties adopted by farmers in these areas were local and Hybrids viz., DAC 7074 and KH 517. The predominant diseases noticed from these areas were MLB, BLSB and TLB with disease incidence from traces to severe. However, CLS, Brown Spot and BSR were noticed in traces. Places Subathoo and Jadli (900) were covered in Solan District where MLB and TLB were common with disease incidence from traces to moderate whereas CLS and Brown Spot were in traces. In district Bilaspur a total of 12 places viz., Kunihar, Piplughat, Damla ghat, Namhol, Jukhala, Braham Pukhar, Ghagas, Bagher, Amarpura, Berthin, Jhamrarian, Giarah Ganv were covered. MLB and BLSB were most common diseases in these areas with incidence from traces to sever. CLS and Brown spot noticed from traces to moderate incidence whereas TLB observed in traces from few areas. Places Karer, Bhota, Bhira, Kuthera were covered in Hamirpur District where MLB and BLSB were common. In Kangra Alampur, Thural, Droh, Palampur, Malan, Kangra, Ranital, Baglamukhi, Mangarh places were surveyed where MLB was predominant with severe incidence and rest diseases were in traces. The last surveyed district was Una where places Duki, Akrot, Tkarala, Panog, Dehlan were visited.

Table 24. Survey and surveillance of maize diseases in Rajasthan

Zone: IV a

S.No	Place	Date	No. of field surveyed	Crop variety	Disease Intensity/Severity											
					Foliar diseases								PFSR/ SMUT			
					RDM	MLB	TLB	BSDM	BLSB	CLS	BS	OTHER	PFSR	CS R	LW	Head smut
1	Nai	11.9.13	2	Maize local	15.0	3.0	-	-	-	1.0	1.5	-	-	-	-	-
2	Fateh nagar	4.9.13	3	Maize Local (Yellow/white)	10.0	3.0	-	-	1.0	3.0	1.5	-	Mod.	-	-	Flag smut Mod.
3	Kharwa chanda	17.8.13	4	Maize local	15.0	2.0	-	-	-	1.5	2.0	-	-	-	-	-
4	Bujhda	11.9.13	3	Maize Local	25.0	2.0	-	-	-	2.5	1.5	-	Sev.	-	-	-
5	Mavli	4.9.13	4	Maize Local (Yellow/white)	-	2.5	-	-	-	2.0	2.0	-	Mod.	-	-	-
6	Sisarama	6.09.2014	5	DHM-117	0.0	1.0	-	-	-	1.5	1.0	-	Mod.	-	-	-
7	Dabok	4.9.13	6	Maize Local	-	2.0	1.0	-	-	2.5	2.0	-	Tr. To Mod.	-	-	-
8	Kaladwas	17.8.13	4	Sweet Corn	10.0	2.5	-	-	-	2.0	1.0	-	-	-	-	-
9	Mangal war	4.9.13	5	Maize Local	-	1.5	-	-	2.0	1.5	2.0	-	-	-	-	Flag smut Mod.
10	Bheel khera	14.9.13	4	Maize Local (Yellow/white)	30.0	1.0	1.5	20.0	2.5	1.5	1.5	-	-	-	-	-
11	Kavita	7.9.13	3	Maize Local	25.0	2.0	-	-	1.0	1.0	1.0	-	Sev.	-	-	-
12	Iswal	7.9.13	4	Maize Local	20.0	2.0	1.0	25.0	1.5	1.5	0.5	-	Sev.	--	-	-

RDM – Rajasthan Downy Mildew, PFSR – Post Flowering Stalk Rot, MLB – Maydis Leaf Blight, CLS – Curvularia Leaf spot, BS – Brown Spot, BLSB – Banded Leaf & Sheath Blight, HS = Head Smut, Tr. – Traces, Mod. – Moderate, Sev. – Severe.

In Rajasthan, a total of 12 places viz., Nai, Fateh nagar, Kharwa chanda, Bujhda, Mavli, Sisarama, Dabok, Kaladwas, Mangal war, Bheel khera, Kavita and Iswal were surveyed covering a total of 47 fields. Local yellow/white, maize local, sweet corn, and DHM-117 were predominant variety in these areas. The most predominant disease of the areas was Rajasthan Downy Mildew (RDM), MLB, CLS, Brown spot (BS) and PFSR. Incidence of RDM, MLB was from moderate to severe whereas CLS and BS were from traces to moderate. Incidence of Flag smut was moderate in Fateh Nagar and Mangalwar areas.

Table 25. Survey and surveillance of maize diseases in Karnataka

Sl. No.	State District Taluk	Area (ha)	Date of survey	Variety/ Hybrid	Crop stage		Disease intensity		Irrigated/ Rainfed
					Veg. stage	Grain filling stage	Foliar disease	Stalk rot	
	Karnataka								
1	Belgaum	20	15.10.2014	Hybrids	✓	✓	Severe	Mild	Irrigated
2	Bagalkot	5	06.09.2014	Hybrids	✓	✓	Severe	-	Irrigated
3	Dharwad	8	16.10.2014	Hybrids	✓	✓	Severe	-	Rainfed
4	Gadag	4	08.09.2014	Hybrids	✓	✓	Severe	-	Rainfed
5	Haveri	15	08.09.2014	Hybrids	✓	✓	Severe	-	Rainfed

In Karnataka state five places i.e. Belgaum, Bagalkot, Dharwad, Gadak and Haveri were surveyed covering 52 hectares. The disease observations were taken at the vegetative as well as in grain filling stage on predominant hybrids of these areas. The most important disease of the region was foliar disease and intensity was severe in all surveyed districts. Incidence of stalk rot was observed in moderate intensity.

Table 26. Survey and surveillance of maize diseases in Gujarat

S. No.	Place	Date	No. of field surveyed	Grain filling stage	Foliar diseases (Disease Score)				Date of disease appearance (MMRS, Godhra)	Period of rapid spread (MMRS, Godhra)
					MLB (1-5)	TLB (1-5)	CLS (1-5)	BLSB (1-5)		
1.	Panchmahal	19.09.14	20	Yes	3.0	3.0	2.0	3.5	MLB : 17.08.14 TLB : 19.08.14 CLS : 19.08.14 BLSB : 25.08.14 1. MLB : 08.09.14 to 01.10.14 2. TLB : 07.09.14 to 03.10.14 3. CLS : 08.09.14 to 05.10.14 4. BLSB : 15.09.14 to 10.10.14	
2.	Santrampur	20.09.14	22	Yes	3.0	3.0	3.0	3.0		
3.	Kadana	03.10.14	20	Yes	4.0	4.0	1.0	4.5		
4.	Dahod	04.10.14	20	Yes	3.0	3.0	2.0	3.0		
5.	Garbada	05.10.14	20	Yes	3.0	3.0	3.0	3.0		
6.	Chhotaudipur	18.10.14	22	Yes	3.0	3.0	3.0	3.0		
7.	Pavijetpur	18.10.14	20	Yes	3.0	3.0	3.0	2.0		
8.	Amirgadh	19.10.14	22	Yes	4.0	4.0	3.0	2.5		
9.	Khedbrahma	20.10.14	20	Yes	3.0	4.0	3.0	2.0		
10.	Bhiloda	21.10.14	22	Yes	3.0	3.0	2.0	3.0		

MLB = Maydis leaf blight

TLB = Turcicum leaf blight

BLSB = Banded leaf and sheath blight

CLS = Curvularia leaf spot

In Gujarat state, disease surveying was done in 10 places viz., Panchmahal, Santrampur, Kadana, Dahod, Garbada, Chhotaudipur, Pavijetpur, Amirgadh, Khedbrahma and Bhiloda undertaken. A total of 208 fields were covered at grain filling stages. The foliar diseases viz., MLB, TLB, CLS and BLSB were observed in intensities.

Table - 27: Survey and surveillance of cyst nematode in Rajasthan

Name of Places/villages	No. of samples collected	No. of samples containing <i>H. zea</i>	Occurrence (%)	Average Nematode Population			Other Dominant Nematodes
				Cyst / plant	Cyst/ 100 cc soil	Larvae / 100 cc soil	
Udaipur	11	7	63.64	8.00	11.43	450.67	RLN, SN
Gudli (Udaipur)	4	3	75.00	10.33	12.67	520.00	RKN , LN , SN
Audvadia (Udaipur)	5	3	60.00	8.00	10.33	460.33	LN, RLN
Negdia (Rajsamand)	3	2	66.67	6.50	9.00	425.00	RLN, SN
Delwara (Rajsamand)	3	3	100.00	9.00	11.67	500.00	SN, LN , RKN
Ramgarh (Ajmer)	5	3	60.00	3.00	6.00	316.67	RLN, SN
Salarmala (Ajmer)	7	4	57.14	5.00	6.50	350.25	SN, LN
Chada Ka Badia (Ajmer)	4	2	50.00	6.00	8.50	400.00	RLN, SN
Dhani Kheda (Ajmer)	3	2	66.67	4.00	6.00	355.00	SN, LN
Grand Total	45	29	64.44				

RLN: Root lesion nematode , *Pratylenchus* spp.

LN : Lance nematode , *Hoplolaimus* spp.

RKN: Root-knot nematode, *Meloidogyne* spp.

SN : Stunt nematode, *Tylenchorhynchus* spp.

Table 28: Efficacy of fungicides on incidence of maydis leaf blight under field condition at Karnal

Treatment	Location :Karnal			
	PDI*	Disease control (%)	Yield (q/ha)	Yield increase (%)
T ₁ -Propiconazole @ 0.1 %	50.56(45.30)	39.33	7.75	36.20
T ₂ -Hexaconazole @ 0.1%	52.22(46.28)	37.33	7.48	31.52
T ₃ -Carbendazim @ 0.1%	51.11(45.62)	38.67	7.60	33.57
T ₄ -Mancozeb @ 0.2%	52.78(46.58)	36.67	7.60	33.57
T ₅ -Carbendazim 12 WP + Mancozeb 63 WP @ 0.3%	49.44(44.66)	40.67	7.87	38.25
T ₆ -Untreated check (water spray)	83.33(65.90)	-	5.69	-
Sem+	0.85	-	0.09	-
CD 0.05	2.72	-	0.40	-
CV %	3.02	-	5.28	-

*Test Variety Name: HKI 536 YN

* Statistically data analysis (CD, CV & Sem) with transformed values in parenthesis

Table 29. Efficacy of botanicals/bioagents on incidence of maydis leaf blight under field condition at Karnal

Treatment	PDI*	Disease control (%)	Yield (q/ha)	Yield increase (%)
T ₁ -Azadirachtin 3000ppm @ 0.3%	69.44(56.45)	15.54	7.67	54.26
T ₂ - <i>R. serpentine</i> leaves (Sarpghandaha) @10%	52.78(46.58)	35.81	8.08	62.64
T ₃ - <i>A. marmelos</i> leaves (Bel Pathar) @25 %	63.89(53.06)	22.30	6.21	24.92
T ₄ - <i>TH-3</i> @ 0.5% as seed treatment, bioagentfortified FYM (1:50) and spray @ 0.5%	63.33(52.71)	22.97	5.54	11.50
T ₅ - <i>TV-3</i> @ 0.5% as seed treatment, bioagentfortified FYM (1:50) and spray@ 0.5%	58.89(50.11)	28.38	5.28	6.14
T ₆ -Untreated check (water sprays)	82.22(65.08)	-	-	-
Sem+	1.30	-	0.07	-
CD 0.05	4.13	-	0.23	-
CV %	4.16	-	5.02	-

*Test Variety Name : HKI 536 YN

* Statistically data analysis (CD, CV & Sem) with transformed values in parenthesis

Table 30. Efficacy of bio-agents on incidence of banded leaf & sheath blight and yield at Pantnagar

Treatments	PDI	Disease control (%)	Yield (q/ha)	Yield increase (%)
T ₁ <i>Pseudomonas fluorescens</i> - seed treatment (4g/kg)	46.66 (43.07)	41.7	46.92	43.11
T ₂ <i>Trichoderma harzianum</i> - seed treatment (2.5g/kg)+ <i>Pseudomonas fluorescens</i> seed treatment (4g/kg)	63.33 (52.85)	20.8	33.70	26.26
T ₃ <i>Trichoderma harzianum</i> - seed treatment (2.5g/kg)	70.00 (56.99)	12.5	32.79	18.60
T ₄ FYM(100kg/ha)-soil application + <i>Pseudomonas fluorescens</i> - seed treatment (4g/kg)	56.66 (48.84)	29.2	36.42	26.71
T ₅ FYM(100kg/ha)- soil application + <i>Pseudomonas fluorescens</i> - seed treatment (4g/kg)+ <i>Trichoderma harzianum</i> - seed treatment (2.5g/kg)	53.33 (46.92)	33.3	40.96	34.83
T ₆ FYM(100kg/ha)- soil application + <i>Trichoderma harzianum</i> (2.5g/kg)	43.33 (41.15)	45.9	54.44	50.97
T ₇ Check	80.00 (63.92)	-	26.69	-
CD at 5%	15.11 (9.49)		8.90	
CV	14.39		12.88	

Table 31. Efficacy of newer fungicides on incidence of banded leaf and sheath blight at different hot spot locations

Treatment	Bajaura				Ludhiana				Karnal			
	PDI	Disease Control (%)	Yield (q/ha)	Increase in yield (%)	PDI	Disease control (%)	Yield (q/ha)	Increase in yield (%)	PDI	Disease Control (%)	Yield (q/ha)	Increase in yield (%)
T ₁ - Difenconazole @ 0.1 %	50.0 (44.9)	34.8	59.1	23.8	37.7 (37.8)	46.2	87.3	50.0	53.33 (46.89)	40.0	42.42	32.55
T ₂ - Hexaconazole @ 0.1%	50.0 (44.9)	34.8	59.7	25.1	53.0 (46.7)	24.4	64.7	11.2	54.00 (47.28)	39.3	45.36	41.74
T ₃ - Carbendazim @ 0.1%	53.3 (46.9)	30.4	56.6	18.6	47.2 (43.3)	32.7	72.4	24.4	52.89 (46.63)	40.5	40.34	26.07
T ₄ - Validamycin @ 0.1%	43.3 (41.1)	43.5	65.9	38.1	37.2 (37.5)	46.9	93.8	61.2	47.55 (43.56)	46.5	47.42	48.18
T ₅ - Tebuconazole @ 0.05%	46.7 (43.1)	39.1	66.5	39.4	50.2 (45.1)	28.4	66.7	14.6	51.81 (46.02)	41.7	41.92	30.99
T ₆ -Trifloxystrobin 25% + Tebuconazole 50% @ 0.05%	43.3 (41.1)	43.5	66.7	40.7	39.5 (38.9)	43.7	82.5	41.8	50.44 (45.24)	43.3	43.44	35.76
T ₇ - Azoxystrobin @ 0.05%	50.0 (44.9)	34.8	63.6	33.3	31.8 (34.3)	54.6	100.9	73.4	53.33 (46.89)	40.0	41.01	28.15
T ₈ - Pencycuron @ 0.1%	-	-	-	-	41.2 (39.9)	41.2	76.0	30.6	50.55 (45.23)	43.1	41.50	29.69
T ₉ - Untreated check (water spray)	76.7 (61.2)	-	47.7	-	70.1 (56.8)	-	58.2	-	88.89 (71.07)	-	32.00	-
CD 0.05	5.0	-	5.9	-	1.51	-	-	-	4.59	-	-	1.52
CV %	10.2	-	11.6	-	-	-	-	-	5.39	-	-	5.20

Treatment	Delhi				Pantnagar				Dhaulakuan			
	PDI	Disease control (%)	Yield (q/ha)	Increase in yield (%)	PDI	Disease control (%)	Yield (q/ha)	Increase in yield (%)	PDI	Disease control (%)	Yield (q/ha)	Increase in yield (%)
T ₁ - Difenconazole @ 0.1 %	-	-	-	-	53.32	30.64	45.19	36.95	27.9 (31.91)	56.12	6030	49.5
T ₂ - Hexaconazole @ 0.1%	63.3	15.73	-	-	54.77	28.75	36.25	21.40	29.4 (32.76)	53.88	4900	21.5
T ₃ - Carbendazim @ 0.1%	63.0	13.9	-	-	56.82	26.09	38.24	25.49	26.1 (30.68)	59.10	4940	22.5
T ₄ - Validamycin @ 0.1%	57.6	23.2	-	-	51.93	32.45	36.83	22.64	24.9 (29.9)	60.95	6422	59.2
T ₅ - Tebuconazole @ 0.05%	67.3	10.4	-	-	51.30	32.27	40.66	29.93	26.4 (30.88)	58.58	5966	47.9
T ₆ -Trifloxystrobin 25% + Tebuconazole 50% @ 0.05%	-	-	-	-	50.52	34.28	40.16	29.05	22.7 (28.41)	64.44	5403	34.0
T ₇ - Azoxystrobin @ 0.05%	-	-	-	-	49.34	35.82	51.82	45.02	25.1 (30.04)	60.54	4770	18.3
T ₈ - Pencycuron @ 0.1%	74.9	0.26	-	-	46.63	39.34	55.66	48.81	25.7 (30.46)	59.61	5357	32.8
T ₉ - Untreated check (water spray)	75.0	-	-	-	76.88	-	28.49	-	63.7 (52.99)	-	4033	-
CD 0.05	11.12	-	-	-	2.95	-	6.77	-	(3.1)	-	791	-
CV %	9.02	-	-	-	3.12	-	9.43	-	5.41	-	8.6	-

Treatment	Bhubaneswar				Godhra				Mean			
	PDI	Disease control (%)	Yield (q/ha)	Increase in yield (%)	PDI	Disease control (%)	Yield (q/ha)	Increase in yield (%)	PDI	Disease control (%)	Yield (q/ha)	Increase in yield (%)
T ₁ - Difenconazole @ 0.1 %	73.33 (58.92)	14.76	47.9	99.58	12.47 (11.13)	54.72	29.30	20.6	44.00	39.61	53.07	44.71
T ₂ - Hexaconazole @ 0.1%	76.66 (61.15)	10.46	39.6	65.00	19.80 (14.09)	28.09	27.43	12.9	50.16	29.43	46.01	28.41
T ₃ - Carbendazim @ 0.1%	40.0 (39.20)	53.48	54.2	125.83	20.87 (14.46)	24.21	25.92	6.7	45.02	35.05	51.86	34.48
T ₄ - Validamycin @ 0.1%	23.33 (28.55)	73.25	60.4	151.66	22.20 (14.92)	19.37	26.04	7.2	38.46	43.27	56.37	55.45
T ₅ - Tebuconazole @ 0.05%	53.33 (46.91)	38.37	50.0	108.33	18.87 (13.75)	31.48	28.56	17.5	45.70	35.04	50.57	41.24
T ₆ -Trifloxystrobin 25% + Tebuconazole 50% @ 0.05%	30.00 (33.11)	65.11	55.2	130.00	10.87 (10.39)	60.53	33.06	36.1	35.33	50.69	53.58	49.63
T ₇ - Azoxystrobin @ 0.05%	46.66 (43.09)	45.34	53.1	121.25	21.53 (14.71)	21.79	25.42	4.6	39.73	41.84	54.79	46.29
T ₈ - Pencycuron @ 0.1%	80.00 (63.55)	6.97	35.4	47.50	12.00 (10.92)	56.42	30.91	27.2	47.28	35.27	48.84	36.10
T ₉ - Untreated check (water spray)	86.66 (68.67)	-	24.0		27.53 (16.68)	-	24.29	-	70.60	-	36.43	-
Sem+	1.12	-	-	-	-	-	-	-	-	-	-	-
CD 0.05	3.35	-	-	-	0.50	-	120.25	-	-	-	-	-
CV %	3.93	-	-	-	2.18	-	2.51	-	-	-	-	-

Table 32: Efficacy of newer fungicides on incidence of banded leaf and sheath blight at Almora

Treatments	BLSB Severity (%)
ST [*] with Trichoderma (T-204 & T-207) and FS ^{**} of Azoxystrobin 23 SC @ 0.1%	22.7 (28.4 ^{***})
ST with Trichoderma (T-204 & T-207) and FS of Difenoconazole 25 EC @ 0.1%	46.3 (42.9)
ST with Trichoderma (T-204 & T-207) and FS of Propiconazole 25EC @ 0.05%	63.0 (52.5)
ST with Trichoderma (T-204 & T-207) and FS of Tebuconazole (0.05%)	61.0 (51.3)
ST with Trichoderma (T-204 & T-207) and FS of Nativo (0.05%)	24.3 (29.5)
ST with Trichoderma (T-204 & T-207) and FS of Validomycin (0.1%)	63.3 (52.7)
ST & FS of Trichoderma (T-204 & T-207)	65.0 (53.7)
ST & FS of Carbendazim @0.1%	72.0 (58.3)
Untreated check (water sprays)	82.3 (65.1)
CD(P = 0.05)	4.065
SE (m)	1.344
CV	4.823

Table 33. Efficacy of newer fungicides on incidence of common rust and turicum leaf blight at Arbhavi

Variety	CM 500	Date of sowing	31.07.2014
No. of treatments	Seven	Date of harvesting	31.11.2014
No. of replication	Three	Date of observation	27.10.2014

Treatments*		Dose (ml or g/liter)	PDI		PDI		Yield (q/ha)	Increase in yield (%)
			TLB	Disease control (%)	Rust	Disease control (%)		
T ₁	Difenconazole	1ml	33.33	1.07	30.00	30.8	30.72	56.4
T ₂	Hexaconazole	1ml	43.33	23.1	30.00	30.8	26.39	34.4
T ₃	Tebuconazole	0.5ml	26.67	38.4	23.33	46.1	29.85	52.1
T ₄	Propiconazole	1ml	40.00	7.7	30.00	30.8	28.32	44.3
T ₅	Trifloxystrobin 25% + Tebuconazole 50% @ 0.05%	0.5g	40.00	7.7	26.67	38.4	28.16	43.4
T ₆	Azoxystrobin @ 0.05%	0.5ml	40.00	7.7	20.00	53.8	22.44	14.3
T ₇	Untreated check	-	43.33	-	43.33	-	19.63	-
SEm			2.67	-	3.29	-	1.12	-
CD (p=0.05)			12.15	-	19.67	-	3.44	-

*Disease data is non- significant and cannot be used for distinction between treatment.

Among the different treatments Difenconazole and Tebuconazole @ 0.1% has significantly superior over other treatments with grain yield of 30.72 and 29.85 q/ha respectively. Similarly, TLB and common rust are in the rang of 3 grade. Propiconazole and Nativo are the next best fungicides. However, all the tested chemicals are significantly superior over untreated check except Amistar.

Table 34. Management of downy mildews (SDM) with bioagents and fungicides at Mandya

Treatments: 8

Replications: 3

Variety used: CM 500

DOS: 08-08-2014

Date of observation on % SDM : 18-09-2014

* Values in the parenthesis indicate square root transformation

Treatments		* SDM (%)	Disease control(%)	Grain yield	
				(kg/ha)	Increase over control (%)
T ₁	<i>Bacillus amyloliquefaciens</i> @10g/kg as seed treatment, bioagent-fortified FYM (1:50) and spray @ 1.0%	90.74 (72.91)	2.3	242.0	106
T ₂	TH-3 @ 0.5% as seed treatment, bioagent-fortified FYM (1:50) and spray @ 0.5%	79.17 (62.93)	14.8	786.3	570
T ₃	TV-3 (<i>Trichoderma viride</i>) @ 0.5% as seed treatment, bioagent-fortified FYM (1:50) and spray @ 0.5%	82.59 (68.13)	11.1	683.9	482
T ₄	Fosetyl-al @ 0.2% seed treatment and spray @ 0.2%	77.93 (62.20)	16.1	848.3	622
T ₅	Azoxystrobin @ 0.2% seed treatment and spray @ 0.15%	6.94 (14.55)	89.4	4360.3	3613
T ₆	Metalaxyl+Mancozeb @ 0.25% seed treatment and spray @ 0.25%	9.86 (18.26)	92.5	3965.7	3277
T ₇	Metalaxyl @ 0.25% seed treatment and spray @ 0.25%	9.79 (17.90)	89.5	4099.5	3391
T ₈	Untreated check (water spray)	92.92 (75.54)	-	117.4	-
	S.Em.±	4.45	-	178.29	-
	CD at 5%	13.49	-	540.78	-

Table 35. Identification of promising components for management of maize cyst nematode on maize at Udaipur

Treatments	Nematode Population						Grain Yield	
	Cyst / 5 g root	Per cent reduction over check	Cyst/ 100 cc soil	Per cent reduction over check	Larvae/ 100 cc soil	Per cent reduction over check	q/ha	Per cent increase over check
Neem Leaf at 1 q/ha	20.67	7.43	24.33	13.11	780.00	17.89	31.00	9.50
Neem Leaf at 2 q/ha	17.00	23.87	21.67	22.61	660.00	30.53	34.90	23.28
Aak Leaf at 1 q/ha	21.67	2.96	26.00	7.14	850.00	10.53	29.61	4.59
Aak Leaf at 2 q/ha	19.33	13.43	23.67	15.46	756.67	30.35	32.59	15.12
Lantana Leaf at 1 q/ha	18.33	17.91	22.33	20.25	680.00	28.42	33.24	17.41
Lantana Leaf at 2 q/ha	16.00	28.35	19.67	29.75	553.33	41.75	36.24	28.01
Neem cake at 2 q/ha	15.33	31.35	18.33	34.56	520.00	45.26	37.43	32.21
Untreated check	22.33	--	28.00	--	950.00	--	28.31	--
SEm ±	0.96	--	1.54	--	47.87	--	1.02	--
CD at 5%	2.92	--	4.69	--	145.21	--	3.10	--

Initial Nematode Population : 640 larvae/100 cc soil
 Replication : 3
 Date of harvesting : 21.10.2014
 Design : R.B.D.

Date of sowing : 14.07.2014
 Soil type : Clay loam
 Plot size : 7.50 sq. m
 Crop variety : PEEHM-5

Table 36. Interaction of maize cyst nematode, *Heteodera zae* with PFSR pathogen, *Fusarium verticillioides* and stem borer, *Chilo partellus* on maize at Udaipur

Treatment	Cyst / 5 g root	Cyst/ 100 cc soil	Larvae/ 100 cc soil	Disease Rating Scale of PFSR	LIR of <i>C. partellus</i>	Yield q/ha
Nematode + PFSR (N+F)	20.50 (15.18)	22.67 (11.69)	838.33 (11.60)	4.12	---	25.22 (11.26)
Nematode + Stem Borer (N+I)	15.83 (34.51)	17.67 (31.16)	653.33 (31.11)	---	4.37	23.75 (16.43)
Nematode + PFSR + Stem Borer (N+F+I)	14.50 (40.01)	16.00 (37.67)	605.00 (36.21)	5.35	5.72	17.83 (37.26)
Nematode alone (Check)	24.17	25.67	948.33	---	---	28.42
SEm ±	1.52	1.61	54.99	---	---	1.04
CD at 5%	4.58	4.86	165.75	---	---	3.15

Date of sowing : 23.07.2014

soil

Soil type : Clay loam

Plot size : 5.00 sq. m

Initial Nematode Population : 650 larvae/100 cc

Crop variety :

PEEHM - 5

Design : R.B.D.

Replication : 6

Figures in parentheses are the percent decrease over check

Table 37. Studies on interaction of maize cyst nematode, *Heteodera zae* with termite on maize

Treatments	Nematode Population					Yield	
	Initial Nematode population/ 100 cc soil	Cyst / 100 cc soil	Per cent decrease over check	Final nematode larvae / 100 cc soil	Per cent decrease over check	Yield/ plant (g)	Per cent decrease over check
Nematode +Termite (N+T)	625.00	19.00	36.31	623.33	32.49	30.83	29.40
Nematode alone (Check)	625.00	29.83	--	923.33	--	43.67	--

Data are the average of twelve entries/plants.

Table 38: Evaluation of maize genotypes in AET and IET Late maturity for various maize diseases during *Rabi* 2013-14

Sl.No	Genotype	TLB	SDM	C. ROT			BLSB	
		DHOL	COIM	MAND	ARBH	LUDH	HYDE	MIDN
AVTII-LATE								
1	A 7501	1.5	0.0	6.8	3.8	4.9	3.9	2.2
2	Bio 237	3.0	0.0	16.7	7.8	4.8	4.7	2.6
3	Bisco X 5141	3.5	0.0	25.2	5.3	5.0	2.4	2.5
4	KMH-7148	3.5	0.0	35.2	8.5	4.4	5.5	2.3
5	NMH-1247	1.5	0.0	38.7	6.0	5.5	3.1	2.6
6	PRO-385	1.0	9.0	28.0	4.8	4.6	2.1	2.4
7	X35B349	2.0	0.0	7.9	3.3	5.2	3.5	2.1
AVTI-LATE								
8	Bisco X 6573	2.5	0.0	98.4	3.0	3.6	4.7	2.1
9	GK 3149	2.0	8.6	13.6	4.3	6.4	4.7	2.3
10	GK 3150	2.5	6.8	7.1	7.0	4.8	4.2	2.8
11	X-1228	3.0	0.0	96.8	3.0	6.2	2.6	2.6
12	KH-K25 Gold	3.0	0.0	48.7	3.0	4.9	3.9	2.6
13	KMH-2589	3.5	0.0	57.0	5.8	6.2	4.4	3.1
14	II 8212	3.0	0.0	55.8	3.0	4.2	3.1	2.5
15	DKC 9120	3.0	0.0	70.7	6.0	5.4	3.4	2.5
16	IL 8534	2.5	0.0	75.7	3.3	3.8	4.5	2.2
17	Venus	1.0	0.0	73.8	8.0	6.2	5.6	3.1
18	PMH-2277	3.0	0.0	88.1	6.3	4.8	5.7	2.2
19	Ivory	2.5	0.0	78.4	7.0	5.2	4.7	2.6
20	Megan-G	1.5	8.9	94.6	7.5	4.6	4.0	2.5
21	PMH-189	1.5	0.0	95.3	8.0	6.2	6.1	2.7
22	Rasi-750	3.0	0.0	34.7	6.0	6.2	4.9	3.5
23	X35C537	1.5	0.0	39.0	7.0	4.5	3.1	2.2
24	P3533	2.5	0.0	33.9	4.3	4.6	5.0	3.0
25	DADA	1.0	0.0	94.4	7.0	4.6	4.8	3.5
26	TH2	2.5	0.0	56.3	7.5	3.5	5.4	2.2
27	TH22	3.0	11.4	66.6	7.3	3.8	3.6	2.0
IVT-LATE								
28	CP-808	3.5	0.0	56.9	7.5	3.8	4.5	2.5
29	CP-838	3.0	0.0	79.1	6.0	3.9	3.7	2.5
30	CP-999	1.5	0.0	39.0	3.5	3.3	4.7	2.5
31	CP-111	2.5	0.0	52.0	5.0	4.1	4.2	3.2
32	CP-333	3.0	0.0	20.2	8.5	4.3	3.7	3.5
33	GK 3118	1.5	0.0	22.5	6.0	3.3	4.9	3.4
34	GK 3155	2.5	7.4	31.4	5.3	3.8	4.0	3.0
35	HTMH 5108	3.0	9.2	28.1	7.0	3.3	4.1	3.6
36	HTMH 5202	3.0	0.0	50.8	7.0	3.5	2.7	3.0
37	KH-2192	2.0	0.0	58.6	3.3	3.5	5.7	3.0

Contd.

Sl.No	Genotype	TLB	SDM	C. ROT			BLSB	
		DHOL	COIM	MAND	ARBH	LUDH	HYDE	MIDN
38	KH-3021	3.5	0.0	53.9	6.5	4.3	4.5	3.8
39	KMH-1411	2.5	0.0	56.5	6.5	3.3	4.7	3.2
40	IM 8222	1.5	0.0	68.6	7.3	3.3	5.1	3.2
41	IM 8226	2.5	0.0	43.3	2.5	3.0	4.9	3.6
42	X35F880	2.5	0.0	74.0	7.0	4.0	5.2	3.4
43	Rasi 864	3.0	0.0	51.6	8.0	3.9	3.4	3.9
44	Rasi 393	2.5	6.8	70.2	3.8	2.9	3.9	3.8
45	Rasi 950	3.0	0.0	75.5	4.0	4.8	4.2	3.5
46	VEH 13-1	3.0	0.0	39.3	6.5	4.1	4.5	3.8
47	CSM1	1.5	0.0	41.1	3.3	5.1	5.6	3.2
48	JH 248	3.5	0.0	76.6	3.0	4.9	3.9	3.8
49	JH 358	2.0	0.0	63.2	7.0	4.0	4.2	3.4
50	JH 412	3.0	0.0	68.1	5.0	5.5	5.1	3.4
51	DMRH1308	2.5	4.9	43.7	5.3	6.5	3.2	3.7
CHECK VARIETIES -LATE								
52	Buland (C)	3.5	0.0	61.2	8.5	5.6	4.5	3.0
53	Seed Tech2324 (C)	2.5	0.0	24.7	5.0	5.3	3.8	3.5
54	Bio 9681 (C)	3.0	0.0	61.9	6.3	6.0	5.3	3.4
AVTII-MEDIUM								
55	VEH 11-1	3.0	0.0	82.3	7.5	5.9	5.5	2.3
AVTI-MEDIUM								
56	KH-K26	3.5	0.0	41.3	2.3	5.8	4.6	2.5
57	KMH-4210	1.0	0.0	73.9	5.0	6.1	4.3	2.1
58	IJ 8521	2.5	0.0	92.0	4.5	6.7	3.9	3.1
59	IL 8536	3.0	7.0	73.7	2.0	3.9	4.1	2.0
60	IL 8537	2.5	0.0	82.9	2.8	5.9	3.5	3.1
61	IJ8214	2.0	0.0	66.3	4.5	5.0	3.4	3.5
62	PMH-2246	3.5	0.0	60.8	5.0	6.4	4.2	3.1
IVT-MEDIUM								
63	Bio 9662	1.5	0.0	38.3	6.8	7.1	4.6	2.2
64	BL 798	2.5	0.0	94.4	3.0	6.4	3.0	2.1
65	BL 900	2.0	0.0	12.1	3.5	4.5	3.5	2.0
66	BL 147	3.0	0.0	57.8	8.3	6.4	5.6	2.6
67	KH-517	2.5	6.6	51.6	3.5	6.5	3.8	3.2
68	IM 8303	3.5	0.0	73.9	2.8	4.6	3.8	3.5
69	IM 8189	3.5	0.0	90.0	7.5	6.3	2.5	2.5
70	MMH11-12-13	2.0	0.0	92.3	8.0	6.1	3.9	3.4
71	MMH12-12-13	2.5	7.3	96.6	5.8	6.2	4.8	2.6
72	MMH-13-12-13	2.5	0.0	88.6	3.0	6.1	5.9	3.3
73	MMH-14-12-13	2.5	0.0	86.1	3.8	6.8	5.6	2.4
74	MMH-15-12-13	2.0	0.0	88.9	7.5	6.7	4.5	3.8

Contd.

Sl.No	Genotype	TLB	SDM	C. ROT			BLSB	
		DHOL	COIM	MAND	ARBH	LUDH	HYDE	MIDN
75	VaMH 08015	2.5	0.0	40.1	4.8	5.5	3.6	3.4
76	GPS Maina	3.0	4.8	81.7	7.0	4.1	4.3	3.8
77	GPS Sarayu	2.5	0.0	93.3	7.5	7.0	3.4	3.1
78	CSM2	2.5	0.0	53.2	4.8	5.8	4.1	2.8
79	DMRH1301	2.5	0.0	58.7	5.0	4.0	3.3	2.4
80	DMRH1302	1.5	4.7	41.3	5.3	4.6	4.6	2.4
81	DMRH1306	3.5	0.0	48.9	4.5	4.3	2.8	2.6
82	DMRH1307	2.5	0.0	100.0	3.5	6.5	2.8	3.6
83	AH1314	3.0	6.9	72.3	3.0	6.9	1.5	3.8
84	AH1315	1.0	6.7	80.4	3.3	6.7	3.0	3.1
CHECK VARIETIES -MEDIUM								
85	Bio9637 (C)	2.5	0.0	61.5	3.0	6.8	4.6	3.0
86	KH-K25	2.0	0.0	36.4	7.0	6.5	3.1	3.7
IVT -EARLY								
87	B-52	2.5	0.0	15.2	2.5	6.2	2.8	3.4
88	NMH-51	2.5	0.0	6.7	4.8	5.3	5.2	3.0
89	IM 8013	1.5	0.0	73.7	5.0	4.6	3.2	3.5
90	IL 8033	1.5	0.0	64.7	2.8	5.0	4.0	3.4
91	IL 8235	3.5	5.1	93.9	2.5	4.6	5.2	2.5
92	IH-072	3.0	0.0	83.5	3.8	6.4	4.7	2.4
93	IH-061	1.5	0.0	85.7	5.5	4.2	3.3	2.0
94	IHQ-091	2.5	0.0	11.1	2.8	5.2	2.1	3.7
95	DMRH1303	3.0	0.0	67.5	5.3	5.5	2.0	3.4
96	DMRH1304	1.5	0.0	71.6	6.5	5.4	1.8	3.4
97	DMRH1305	2.5	0.0	90.0	3.5	4.8	1.8	3.8
98	AH1312	2.5	0.0	75.0	2.5	6.4	1.8	3.6
99	AH1313	1.5	0.0	90.2	3.0	4.4	2.2	3.0
CHECK VARIETIES -EARLY								
100	Prakash (C)	1.5	0.0	96.0	7.5	6.9	5.2	3.7
QPM ENTRIES								
101	QPM-3	2.5	4.6	93.6	4.5	4.8	3.5	3.4
102	MMHQPM-6-12-13	3.5	0.0	76.7	3.8	5.1	2.8	3.6
CHECK VARIETIES QPM								
103	HQPM 1(C)	1.5	4.6	77.1	3.3	5.1	3.2	2.6
104	HQPM7 (C)	1.5	0.0	81.5	2.5	4.9	2.0	3.7
105	RC	-	0.0	0.00	-	-	2.2	-
106	SC	3.5	-	84.1	-	6.8	6.1	-
107	Local Check	-	16.6	-	-	-	-	-

RESISTANT CHECK-SDM: MANDYA (NAH 1137), COIMBATORE (COH6)

SUSCEPTIBLE CHECK- TLB : DHOLI (CML 186), SDM: MANDYA (CM 500), CHARCOAL ROT: LUDHIANA (WINPOP-1)

Entomology

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ABBREVIATIONS USED

AVT-Advanced Variety Trail

DAG- Days after Germination

DAI-Days after Infestation

EC-Emulsifiable Concentration

HS-Highly Susceptible

LIR-Leaf Injury Rating

LS-Least Susceptible

MS-Moderately Susceptible

NG-No Germination

SC-Suspension Concentration

WP-Wettable Powder

Executive Summary

Evaluation of germplasm against stem borers under AICRP

During Kharif 2014, AICRP trials of 94 entries of different maturity periods were evaluated at Delhi, Karnal, Kolhapur, Hyderabad, Ludhiana and Udaipur for resistance against *Chilo partellus* under artificial infestation.

The entries were sown in two rows of three metres each. Sixteen seeds were sown; after ten days of germination, extra plants were rouged out leaving twelve plants in each row. When the plants were 14-16 days-old; 10-12 black-headed eggs of *C. partellus* laid on butter paper were pinned in the whorl. The eggs hatched within few hours and the neonate larvae nibbled on the leaves and found their way in the stem. After 25 days of release of eggs, plants were observed for level of infestation by recording the leaf injury rating on 1-9 scale.

1= Plants showing no infestation symptom

2= 1-2 leaves with pinholes

3= 3-4 leaves with holes

4= 1/3 leaves showing infestation symptoms

5= Half the number of the leaves with infestation symptoms

6= 2/3 leaves with infestation symptoms and the holes becoming windows

7= Leaves with long window and plant growth is stunted

8= Almost all leaves displaying heavy infestation and plant growth is stunted

9= Dead heart formation observed

The following entries registered leaf injury rating (LIR) less than that of checks.

Full Season Maturity period: Zone II: DKC 9133(IM9133), HTMH 5108, KMH-2811, JH 12247, IM 8556, JANA HIT, PRO-392, NMH 1265; Zone IV: VNR 31834, X35D601, DKC 9133(IM9133), HTMH 5108, HTMH 5404, RMH 972, SIRI 4527, JH 12247, IM 8562, CP. 999, DAS-MH-105, JANA HIT, PRO 392, NMH 1265 Zone V: X35D601, DKC 9133(IM9133), DKC 9141 (IM8539), HTMH 5108, RMH 972, IM 8562, JANA HIT and PRO 392

Medium Maturity period: Zone II: LG 32.82, AQH 4, CMH 10-547, DKC 9144, (IM8478), DKC 9149, (IM8581), FCH 11231, JKMH 4545, S-6750, TH-38, AQH 9, CMH 11-582, DKC 8144, (IM 8479), HTMH 5402, BH 41150, CMH 11-617 EH-2205, EH-2240, EHL 3412, KDMH 2705, KNMH 4010131, Kuber shakthi, AQH 8, DKC 9145 (IJ8533); Zone IV: TH 38, AQH 9, AQH 8, BH 41150, CMH 11-617, EH-2205, EH-2240, EHL 3412, PRMH-2177, KNMH 4010131; Zone V: DKC 9149 (IM8581), JKMH 4545, TH 38, CMH 11-617 and EH-2240

Early Maturity period: Zone II: DMH-63, FH 3669, MEH 1-12-13, GWH 0712, CMH 11-579, CMH -11-611, CMH-11-626, NMH-1258, EH 2212, FH 3605, FH 3626, KMH 7021, CMH 10-531; Zone IV: DMH 63, FH 3669, MEH 1-12-13, GWH 0712, CMH 11-579, CMH 11-595,

CMH 11-611, CMH 11-629, NMH 1258, JH 31613, EH 2212, FH 3605, FH 3626, KMH 7021, CMH 531; Zone V: MEH 1-12-13, CMH 11-611 and EH 2214

Extra Early Maturity period: All the nine entries have LIR more than check.

Screening of inbred lines against *Chilo partellus*

Forty-two inbred lines were evaluated for resistance against *C. partellus*. In Zone II: 21 were moderately susceptible (LIR=3.1-6.0) and 21 highly susceptible (LIR 6.1-9.0); Zone IV: germplasm WNZPBT9, HKI 488 EARLY, CML 49, CML 482 and CML 227 were least susceptible (LIR \leq 3.0), 33 germplasm moderately susceptible and four highly susceptible; Zone V: Hybrid 9415-BBB-4, CML 49, ABB CYC5342-1, P390AM/CMLC4F230 B2, AEBCYC534-3-1, HKI 326-3, CMI227, P63 C2-BBB 17B and CML 408 were found to be least susceptible whereas 24 moderately susceptible and nine highly susceptible.

Incidence of cob borer complex

Maize crop when monitored from tasseling till hard dough stage to record the insect pests infesting cobs recorded 16.93, 5.18, 2.0 and 1.14 percent at Ludhiana, Karnal, Hyderabad and Delhi respectively. Insect complex of *Helicoverpa*, *Sesamia inferens*, *Spodoptera* and *Euproctis* was observed in cobs. Incidence of *Helicoverpa* was recorded in all the AICRP centres with its varying infestation level of 33, 116, 50, 6.25 and 0.56 percent at Ludhiana, Karnal, Hyderabad, Delhi and Kolhapur respectively. *Sesamia* infestation (13.6%) was recorded only in Ludhiana. Severe infestation of *Euproctis* (72%) was observed at Hyderabad while 21.23 and 5.6 % infestation was recorded at Kolhapur and Ludhiana respectively. The cobs at Hyderabad were also found to be infested with *Spodoptera* with severity of 26 percent. The incidence of *Helicoverpa*, *Sesamia*, *Euproctis* and *Spodoptera* was 61.27, 2.27, 16.47 and 4.33 percent respectively. *Euproctis* can be a potential cob borer other than *Helicoverpa* in terms of economic loss.

Evaluation of biocontrol agents against *Chilo partellus*

Egg parasitization The parasitization was recorded on the freshly laid eggs by *C. partellus* by artificially releasing the adults on HQPM1 and PMH1 at 12 DAG covered by net cage. The plants were harvested and the egg masses obtained were kept under ambient conditions for observing the emergence of parasitoids. No parasitization was observed at Delhi, Ludhiana, Karnal and Kolhapur while 1.32 percent parasitization by *Trichogramma* was recorded at Hyderabad.

Larval Parasitization The larvae collected from infested maize plants when reared in laboratory, resulted in 4.56, 2.95, 6.25 22.85, 35 and 3.7 percent parasitization by *Cotesia flavipes* at Ludhiana, Karnal, Hyderabad Delhi and Kolhapur respectively. The incidence of *Cotesia* was found to be minimum (3.03) at 30 DAG crop while maximum larvae were found parasitized (18.42%) at 50 DAG of maize crop. The incidence of *Cotesia* decreases thereafter as observed from number of parasitized larvae recovered from the plants dissected at 60 and 70 DAG.

Efficacy of insecticides

The efficacy of four insecticides Chlorantriliniprole 20 SC, Flubendiamide 480 SC, Novaluron 10EC and Deltamethrin 2.8 EC was evaluated at AICRP centres during Kharif, 2014. Flubendiamide 480 SC followed by Chlorantriliniprole 20 SC were found to be most effective, based on leaf injury rating observed at 25 days after infestation.

Validation of formula for crop loss assessment

The formula for crop loss assessment caused by *C. partellus* was validated for second year during kharif 2014 at Delhi and Ludhiana centres. The estimated yield varied 3 percent from the actual yield obtained.

Pest management in maize through habitat management

Habitat management including cowpea as intercrop and sorghum as trap crop in maize for stem borers was practiced at IIMR farm, Ladhowal, Ludhiana. Sesamum and marigold were raised as alternate source of pollen, nectar and shelter for adult parasitoids. Maize crop with Sesamum and marigold was found to be the best in terms of LIR (1.25) and percent dead hearts (0.01) observed at 30 DAG. Intercropping of sorghum with marigold on borders of maize crop was found the next best treatment. The plant damage in the form of leaf injury and dead hearts was less than control in all the treatments.

MET 1: Evaluation of maize AICRP trails under artificial infestation for AVT I and II**Table 1: Summary of AICRP entries evaluation against *Chilo partellus* in each maturity group at different Coordinating Centres**

Level of susceptibility	Full season maturity		Medium maturity		Early maturity		Extra-early maturity
	AVT I	AVT II	AVT I	AVT II	AVT I	AVT II	AVT I
			No. of entries				
KARN							
Least susceptible	03	-	04	-	04	-	02
Moderately susceptible	11	05	19	07	15	06	07
Highly susceptible	06	02	1	-	01	-	01
KOLH							
Least susceptible	06	-	02	-	02	01	-
Moderately susceptible	08	04	18	05	12	05	07
Highly susceptible	06	03	04	02	06	-	03
HYDE							
Least susceptible	-	-	-	-	-	-	-
Moderately susceptible	-	-	13	01	06	04	07
Highly susceptible	20	07	11	06	14	02	03
LUDH							
Least susceptible	-	-	04	01	01	02	-
Moderately susceptible	15	05	19	06	17	04	09
Highly susceptible	05	01	01	-	02	-	01
UDAI							
Least susceptible	08	02	05	03	04	01	03
Moderately susceptible	04	04	12	03	07	02	06
Highly susceptible	08	01	07	01	09	03	01
DELH							
Least susceptible	03	02	11	-	01	01	-
Moderately susceptible	17	05	12	07	15	05	09
Highly susceptible	-	-	01	-	04	-	01

(The figures indicate number of entries)

Table 2: Screening of maize AICRP entries of Full Season Maturity group against *Chilo partellus* during Kharif, 2014

Ent. No.	Pedigree	Zone II				Zone IV			Zone V
		LUDH	KARN	DELH	Mean LIR	KOLH	HYDE	Mean LIR	UDAI
AVT-I									

1	VNR 31834	7.1	5.8	3.5	5.5	4.1	7.4	5.8	5.5
2	X35D601	5.0	5.6	3.7	4.8	3.9	6.7	5.3	<u>2.0</u>
3	DKC 9133(IM9133)	5.2	2.5	2.4	3.4	2.9	6.8	4.9	<u>1.5</u>
4	DKC 9141 (IM8539)	5.8	6.4	3.3	5.2	6.7	7.6	7.2	<u>2.5</u>
5	HTMH 5108	5.1	2.6	3.1	3.6	4.5	7.6	6.1	<u>2.0</u>
6	HTMH 5202	4.9	5.5	3.3	4.6	6.1	7.2	6.7	8.5
7	HTMH 5404	4.5	5.1	3.9	4.5	2.3	7.5	4.9	5.0
8	KMH-2811	4.0	5.2	4.1	4.4	7.4	7.2	7.3	6.5
9	RMH-972	6.1	5.7	3.7	5.2	3.2	6.8	5.0	<u>2.5</u>
10	SUPER GA-105	5.8	6.8	4.0	5.5	8.3	7.0	7.7	8.0
11	VNR 31355	6.9	7.0	4.2	6.0	6.6	7.3	7.0	9.0
12	Siri 4527	6.9	7.3	4.0	6.1	5.4	6.6	6.0	9.0
13	JH 12247	5.9	5.2	1.5	4.2	2.8	8.0	5.4	8.0
14	Bio 032 (BB032)	5.8	5.8	3.7	5.1	7.6	7.4	7.5	5.5
15	IM 8562	6.0	5.4	5.6	5.7	3.0	7.7	5.4	<u>2.0</u>
16	CP.999	5.8	7.1	4.0	5.6	5.2	6.7	6.0	8.0
17	DAS-MH-105	3.2	7.1	3.3	4.5	2.5	7.7	5.1	8.5
18	IM 8556	3.2	4.8	3.9	4.0	5.9	7.4	6.7	5.0
19	JANAHIT	5.9	2.6	3.3	3.9	2.7	7.4	5.1	<u>2.0</u>
20	PRO-392	4.4	5.2	2.5	4.0	5.3	6.9	6.1	<u>2.0</u>
AVT-II									
21	LTH-22	5.9	6.2	3.8	5.3	6.7	6.7	6.7	8.5
22	NMH-1265	5.0	6.5	1.7	4.4	4.0	6.9	5.5	5.5
23	Geo Primium Diamond	6.2	5.3	2.5	4.7	5.4	7.1	6.3	5.0
24	PMH 1-C	4.7	5.0	3.4	4.4	6.9	8.5	7.7	<u>1.0</u>
25	PMH 3-C	7.6	5.7	3.5	5.6	4.0	8.5	6.3	5.5
26	Bio -9681-C	5.5	5.0	4.7	5.1	4.7	7.6	6.2	<u>2.5</u>
27	Seedtech 2324	5.5	5.5	3.2	4.7	6.9	7.6	7.3	5.5

The figures indicate mean score in terms of LIR

Figures in bold represent highly susceptible and the underlined least susceptible germplasm

Table 3: Screening of maize AICRP entries of Medium Maturity group against *Chilo partellus* during Kharif, 2014

Ent. No.	Pedigree	Zone I				Zone IV			Zone V
		KARN	LUDH	DELH	Mean LIR	KOLH	HYDE	Mean LIR	UDAI
AVT-I									
1	LG 32.82	4.1	4.6	2.3	3.7	4.4	6.3	5.4	4.5
2	AQH 4	4.9	4.9	2.4	4.1	6.7	6.7	6.7	8.5
3	CMH 10-547	4.4	6.0	3.3	4.6	4.8	6.9	5.9	5.0
4	DKC 9144	4.8	3.0	2.1	3.3	6.4	6.3	6.4	9.0

	(IM8478)								
5	DKC 9149 (IM8581)	4.4	3.2	2.3	3.3	4.8	6	5.4	<u>2.0</u>
6	FCH 11231	4.7	5.4	1.4	3.8	6.3	6.1	6.2	5.5
7	JKMH 4545	4.3	3.7	3.2	3.7	4.8	6.2	5.5	<u>2.0</u>
8	S-6750	4.1	3.0	1.7	<u>2.9</u>	5.4	6.2	5.8	6.0
9	TH-38	2.4	3.3	3.0	<u>2.9</u>	4.7	4.9	4.8	<u>2.0</u>
10	AQH 9	2.2	5.0	4.5	3.9	4.6	5.8	5.2	5.0
11	CMH 11-582	4.5	4.6	2.9	4.0	5.6	6.4	6.0	5.0
12	DKC 8144 (IM 8479)	5.0	4.0	2.3	3.8	5.4	5.9	5.7	6.0
13	Kuber shakthi	4.2	4.5	3.4	4.0	5.7	5.8	5.8	5.5
14	AQH 8	1.6	6.6	2.6	3.6	4.1	5.9	5.0	5.5
15	HTMH 5402	4.3	4.0	3.1	3.8	5.3	5.9	5.6	5.5
16	BH 41150	5.3	3.9	2.9	4.0	2.8	6.2	4.5	6.0
17	CMH 11-617	4.4	3.9	5.7	4.7	4.2	5.5	4.9	<u>2.0</u>
18	EH-2205	3.7	2.9	5.3	4.0	4.1	5.8	5.0	4.5
19	EH-2240	6.5	6.0	5.1	5.9	3.8	6.3	5.1	<u>2.0</u>
20	EHL 3412	2.7	2.9	4.8	3.5	3.6	6	4.8	9.0
21	KMH-5951	4.9	5.1	7.0	5.7	5.9	6.7	6.3	8.0
22	PRMH-2177	5.0	4.3	5.3	4.9	3.7	5.8	4.8	8.5
23	KDMH 2705	4.4	3.8	5.2	4.5	7.3	5.1	6.2	8.0
24	KNMH 4010131	4.3	3.4	6.0	4.6	2.8	4	3.4	9.0
AVT-II									
25	DKC 9145 (IJ8533)	4.8	2.9	4.7	4.1	7.0	6.8	6.9	8.5
26	Rasi-3033	4.2	5.3	4.7	4.7	4.5	7.0	5.8	5.0
27	PMH 4 (C)	4.6	4.5	5.4	4.8	3.7	6.7	5.2	5.5
28	Bio -9637(C)	4.3	4.7	5.7	4.9	5.4	6.2	5.8	<u>2.0</u>
29	HM4-C	4.6	4.4	4.8	4.6	5.1	5.3	5.2	5.0
30	HM8-C	4.4	5.2	5.7	5.1	5.2	6.8	6.0	<u>2.5</u>
31	HM9-C	6.3	3.73	5.7	5.2	7.3	6.1	6.7	5.5

The figures indicate mean score in terms of LIR

Figures in bold represent highly susceptible and the underlined least susceptible germplasm

Table 4: Screening of maize AICRP entries of Early Maturity group against *Chilo partellus* during Kharif, 2014

Ent. No.	Pedigree	Zone II				Zone IV			Zone V
		KARN	LUDH	DELH	Mean LIR	KOLH	HYDE	Mean LIR	UDAI
AVT-I									
1	AH 1261	4.7	5.2	4.7	4.9	7.5	6.9	7.2	4.0
2	DMH-63	4.0	3.2	3.5	3.6	3.4	5.7	4.6	4.5
3	FH 3664	4.3	4.3	4.2	4.3	6.9	6.2	6.6	5.0
4	FH 3669	3.6	3.0	4.6	3.7	4.1	5.0	4.6	6.5
5	JH-31610	3.9	6.4	4.4	4.9	4.8	6.1	5.5	6.5

6	LG 31.81	4.4	4.2	4.7	4.4	7.8	5.5	6.7	<u>2.5</u>
7	MEH 1-12-13	1.7	5.3	4.1	3.7	4.6	5.3	5.0	<u>2.0</u>
8	Bio 9720	4.0	5.4	4.6	4.7	5.4	5.9	5.7	7.0
9	GWH 0712	3.8	4.6	2.5	3.6	3.7	6.3	5.0	6.5
10	CMH 11-579	4.9	3.1	3.9	4.0	4.9	4.9	4.9	7.0
11	CMH 11-595	4.9	4.0	5.1	4.7	4.2	5.7	5.0	5.5
12	CMH 11-611	1.8	4.7	5.3	3.9	5.3	4.7	5.0	<u>1.0</u>
13	CMH 11-626	4.1	4.1	4.0	4.1	6.4	4.9	5.7	8.0
14	CMH 11-629	1.8	5.1	6.1	4.3	2.7	5.1	3.9	5.0
15	B-52	6.6	4.7	5.8	5.7	7.0	5.3	6.2	8.5
16	EH-2214	4.0	4.2	6.1	4.8	4.9	6.8	5.9	<u>2.5</u>
17	NMH-1258	1.8	4.6	5.4	3.9	4.6	5.4	5.0	5.0
18	HKH341	3.1	6.4	4.0	4.5	6.4	4.8	5.6	5.5
19	EH-2233	6.8	4.3	6.7	5.9	5.3	5.6	5.5	8.0
20	JH-31613	3.9	4.0	5.7	4.5	3.0	6.5	4.8	7.0
AVT-II									
21	EH-2212	4.2	4.6	3.9	4.2	4.0	5.1	4.6	7.5
22	FH 3605	4.8	4.5	2.1	3.8	3.3	6.6	5.0	5.5
23	FH 3626	3.6	3.0	5.2	3.9	4.3	5.9	5.1	5.0
24	KMH-7021	4.5	3.2	4.5	4.1	3.9	5.9	4.9	7.5
25	CMH10-531	4.3	3.2	5.0	4.2	2.9	5.2	4.1	6.5
26	Parkash (C)	4.5	2.9	5.3	4.2	4.3	6.5	5.4	<u>2.5</u>

The figures indicate mean score in terms of LIR

Figures in bold represent highly susceptible and the underlined least susceptible germplasm

Table 5: Screening of maize AICRP entries of Extra Early Maturity group against *Chilo partellus* during Kharif, 2014

Ent. No.	Pedigree	Zone II				Zone IV			Zone V
		KARN	LUDH	DELH	Mean LIR	KOLH	HYDE	Mean LIR	UDAI
AVT-I									
1	APQH 9	5.1	4.4	4.7	4.7	4.5	6.8	5.7	5.0
2	AH-1212	6.2	6.2	7.5	6.6	6.2	7.5	6.9	4.5
3	KH-7502	4.4	4.9	5.6	5.0	7.5	5.7	6.6	5.0
4	Vivek Hybrids-21 (C)	2.5	4.1	4.1	3.6	5.5	6.2	5.9	<u>2.0</u>
5	Vivek Hybrids-43(C)	5.1	4.5	4.5	4.7	4.4	5.7	5.1	<u>2.5</u>
6	VIVEK QPM9-C	5.2	3.5	4.5	4.4	6.5	5.7	6.1	4.5
7	PMH-1-F	4.4	4.6	4.8	4.6	3.4	4.2	3.8	5.0
8	BIO 9681-F	1.8	4.9	4.9	3.9	3.6	5.0	4.3	<u>1.5</u>
9	PMH3-F	5.9	4.0	3.6	4.5	4.0	5.4	4.7	9.0

10	HM10-F	4.3	5.7	5.8	5.3	4.7	5.3	5.0	5.0
		4.5	4.7	5.0		5.0	5.8		4.4

The figures indicate mean score in terms of LIR

Figures in bold represent highly susceptible and the underlined least susceptible germplasm

MET II: Evaluation of inbred lines under artificial infestation

Table 1: Screening of maize inbred lines against stem borer, *Chilo partellus* during Kharif, 2014

S.No.	Pedigree	Zone II				Zone IV			Zone V
		KARN	LUDH	DELH	Mean LIR	KOLH	HYDE	Mean LIR	UDAI
1	CM 202	6.1	8.8	5.0	6.6	8.9	3.0	6.0	5.5
2	CM501	4.2	3.2	5.3	4.2	5.6	3.3	4.5	9.0
3	AEB(Y)	5.0	6.8	2.9	4.9	NG	4.1	4.1	5.0
4	BCK/BC8	5.4	6.4	7.3	6.4	6.8	3.7	5.3	9.0
5	WINPOP3	4.3	8.4	5.2	6.0	7.0	4.7	5.9	5.5
6	HYBRID 9415-BBB-4	4.3	7.5	8.6	6.8	6.8	2.4	4.6	<u>1.0</u>
7	EC672591	1.5	7.9	2.0	3.8	NG	4.5	4.5	4.5
8	PFSRS3	1.9	8.4	1.0	3.8	NG	6.5	6.5	4.5
9	DC2	4.5	6.5	4.8	5.3	7.0	3.4	5.2	3.5
10	CM 500	4.5	6.9	3.1	4.8	2.4	5.1	3.8	8.0
11	JCS80106H	N.G.	6.6	5.9	6.3	NG	3.5	3.5	5.5
12	WINPOP8	4.7	7.1	2.4	4.7	5.8	4.0	4.9	3.5
13	HK1170(1+2)	5.0	7.1	5.5	5.9	4.6	7.2	5.9	6.0
14	WNZPBTL9	3.5	8.0	5.4	5.6	3.0	2.9	<u>3.0</u>	7.0
15	CM142	2.4	7.4	4.4	4.7	5.5	5.6	5.6	9.0
16	JCS2-7	2.0	7.4	1.5	3.6	7.7	5.7	6.7	5.0
17	DMR E 63.	1.7	5.8	5.5	4.3	4.0	3.5	3.8	5.0
18	97P65-BBB-26-B	4.9	8.3	5.9	6.4	4.9	5.3	5.1	6.0
19	CML491-B6	7.4	7.7	8.4	7.8	NG	3.9	3.9	8.0
20	CM130	7.4	7.6	5.0	6.7	4.5	7.1	5.8	4.0
21	PFSRS2	4.2	5.7	5.5	5.1	NG	3.6	3.6	4.5
22	HK1488 EARLY	5.2	7.4	8.3	7.0	NG	2.0	<u>2.0</u>	5.5
23	CML49	5.7	8.1	7.0	6.9	NG	2.7	<u>2.7</u>	<u>2.0</u>
24	AEBCYC534-2-1	1.8	7.1	7.3	5.4	6.8	4.2	5.5	<u>3.0</u>
25	CML281	6.0	6.9	5.5	6.1	NG	3.1	3.1	9.0
26	CML338	N.G.	NG	7.8	7.8	NG	NG	0.0	4.0
27	CML344BB	6.5	6.8	7.5	6.9	5.9	2.9	4.4	4.5
28	AEBYC534-1-1	4.9	9.0	9.0	7.6	7.0	1.6	4.3	8.5
29	WNZEXOTIC POOL1 A	4.8	6.0	1.8	4.2	5.3	2.6	4.0	5.0
30	HK1 586	6.5	7.7	2.5	5.6	7.1	4.5	5.8	5.5
31	P390AM/CMLC4F230-B-2	5.4	8.9	7.6	7.3	5.3	5.1	5.2	<u>2.0</u>
32	AEBYC538-1-1	4.0	8.1	6.8	6.3	4.8	2.7	3.8	5.0
33	AEBCYC534-3-1	4.7	3.4	8.5	5.5	5.8	2.6	4.2	<u>1.0</u>
34	CML384X176F3- 100-9	4.8	8.0	3.7	5.5	7.1	4.3	5.7	4.0
35	G33QC20-BBB-37	4.3	7.8	5.0	5.7	5.5	3.7	4.6	8.5

36	CML482	N.G.	6.4	7.1	6.8	NG	1.7	<u>1.7</u>	4.0
37	P3C4S5-33-11-BBBB-2	5.0	7.5	6.8	6.4	7.0	4.6	<u>5.8</u>	5.0
38	HKI326-3	4.9	6.4	4.5	5.3	5.0	4.8	<u>4.9</u>	<u>2.5</u>
39	CML227	6.6	7.8	7.6	7.3	2.9	1.9	<u>2.4</u>	<u>2.0</u>
40	P63C2-BBB-17B	5.8	7.4	5.0	6.1	3.0	4.2	3.6	<u>1.5</u>
41	CML408	8.2	8.2	2.3	6.2	8.1	4.3	6.2	<u>2.0</u>
42	CML12	4.7	8.3	3.1	5.4	8.5	6.3	7.4	5.0

The figures indicate mean score in terms of LIR

Figures in bold represent highly susceptible and the underlined least susceptible germplasm

MET III: Identification of cob borer complex and level of infestation during *Kharif*, 2014

DELH

Date of observation: 20.9.14

Germplasm sampled: AICRP germplasm and Inbred lines

Table 3.a: Cob borer complex and level of infestation

Total no. of samples	No. of cobs infested	No. of larvae recovered	Name of borer/others	% incidence	Severity (larvae/cob)
567	15	0	-	-	-
838	94	1	<i>Helicoverpa</i>	1.14	6.25

KARN

Table 3.b: Cob borer complex and level of infestation

Total no. of samples	No. of cobs infested	No. of larvae recovered	Name of borer/others	% incidence	Severity (larvae/cob)
965	50	58	<i>Helicoverpa</i>	5.18	1.16

HYDE

Variety/hybrid: Laxmi

Date of sowing: 8.7.2014

Table 3.c: Cob borer complex and level of infestation

Total no. of samples	No. of cobs infested	No. of larvae recovered	Name of borer/others	Per cent incidence	Severity (larvae/cob)
2500	50	25	<i>Helicoverpa</i>	2.0	1.48
		13	<i>Spodoptera</i>		
		36	<i>Euproctis</i>		

Note: Crop was surrounded by cotton and was inter cropped with Red gram

LUDH

Table 3.d: Cob borer complex and level of infestation

Total number of the cobs observed (a)	No. of infested cobs	No. of larvae recovered	Name of cob borer	Per cent incidence	Severity of infestation
Spring 2014					
Location 1: Farmer field near KVK, Rauni District Patiala, Date of observation: 21.5.14					
147	50	28	<i>Helicoverpa armigera</i>	34.01	0.56
Location 2: BISA, PAU Ladawal Farm: Date of observation: 26.5.14					
246	50	18	<i>Helicoverpa armigera</i>	20.32	0.36
Kharif 2014					
Location 1: PAU research area (Tube well no. 5); Date of observation: 16.10.14					
297	50	14	Army worm	16.83	0.58
		10	Pink stem borer		
		5	Silk cutter <i>Euproctis sp.</i>		
Location 2: PAU research area (Tube well no. 5); Date of observation: 22.10.14					
334	50	12	Army worm	14.97	0.68
		18	Pink stem borer		
		4	Silk cutter <i>Euproctis sp.</i>		
Location 3: PAU Regional Research Station, Abohar ; Date of observation: 13.11.14					
453	50	10	Army worm	11.03	0.42
		6	Pink stem borer		
		5	<i>Helicoverpa armigera</i>		

KOLH

Date of Sowing: 21/07/2014

Date of germination: 26/07/2014

Table 3.e: Cob borer complex and level of infestation

Std. Week	Percent infestation	
	<i>H. armigera</i>	<i>Euproctis spp.</i>
15.9.14	0.00	0.00
22.9.14	0.00	2.87

29.9.14	0.00	10.47
05.10.14	0.00	20.12
12.10.14	0.00	32.24
19.10.14	0.41	34.70
26.10.14	1.23	34.70
02.11.14	2.87	34.70

UDAI

Table 3.f: Cob borer complex and level of infestation

Total no. of samples	No. of cobs infested	No. of larvae recovered	Name of borer/others	Percent incidence	Severity (larvae/cob)
1012	263	426	<i>Helicoverpa</i>	25.98	1.61

MET IV: Evaluation of bio-control agents (egg and larval parasitoids of *Chilo partellus*)

DELH

Egg Parasitoids

Cultivar : HQPM1 and PMH1

Date of release of adults: 2.8.14

Date of sample collection: 5.8.14

Table 4.1a: Percent incidence of egg parasitoids of *Chilo partellus*

Cultivar	Repl.	No. of pl.	No. of plants oviposited	No. of eggs masses	No. of parasitoids	Incidence (%)
PMH1	R1	36	3	1	0	0
	R2	40	0	0	0	0
	R3	50	6	8	0	0
HQPM1	R1	20	1	1	0	0
	R2	41	5	5	0	0
	R3	27	3	5	0	0

Table 4.1b: Percent parasitization of *Chilo partellus* larvae

Date of sampling	Germplasm sampled	DAG	No. of infested plants	No. of larvae	No. of parasitized larvae	No. of parasitoids (<i>Cotesia</i>)	Parasitization (%)	Severity (parasitoids/larva)
02.9.14	AICRP	40	25	29	12	232	41.37	23.2

11.9.14	Inbreds	50	100	4	2	59	50	29.5
16.9.14	Inbreds	55	20	0	0	0	0	0
1.10.14	Inbreds	70	262	0	0	0	0	0

KARN

Egg Parasitoids

Date of Sowing : 25/07/2014
 Date of germination : 29/07/2014

Table 4.2a: Percent incidence of egg parasitoids of *Chilo partellus*

Replication	Date of adult released	Date of collection	No. of egg masses	No. of eggs	No of eggs hatched	No of parasitoids emerged	Parasitization (%)
R1	08.08.14	11.08.14	28	448	362	0	0
R2	09.08.14	12.08.14	36	552	456	0	0
R3	10.08.14	13.08.14	26	456	368	0	0

Table 4.2b: Percent parasitization of *Chilo partellus* larvae

DAG	No. of plant samples	No. of larvae recorded	No. of parasitized larvae	No. of parasitoids (<i>Cotesia</i>)	Incidence (%)	Severity (parasitoids/larva)
40	20	46	3	38	6.52	12.66
50	20	38	2	31	5.26	15.50
60	20	14	0	0	0	0
70	20	06	0	0	0	0

HYDE

Egg Parasitization

Hybrid/variety: DHM 117 Date of sowing: 27.08.2014
 Date of release of adults: 12.9.2014

Table 4.3a: Percent incidence of egg parasitoids of *Chilo partellus*

Replica-tions	No. of Egg mass	No. of eggs	No. of neonates <i>Chilo</i>	Trichogramma parasitization (%)
R1	12	475	272	--
R2	7	287	187	--
R3	8	302	182	1.32%

Table 4.3b: Percent parasitization of *Chilo partellus* larvae

DAG	No. of plant samples	No. of larvae recovered	No. of infested larvae	No. of parasitoids (Cotesia)	Incidence (%)
40	20	4	1	10	25
50	20	5	--	--	--
60	20	--	--	--	--
70	20	--	--	--	--

LUDH

Table 4.4a: Percent incidence of egg parasitoids of *Chilo partellus*

Date of adult release	Date of collection of eggs from field	Mean no of egg masses (number of eggs)	Percent parasitization of eggs	Remarks
26/7/14	28/7/14	6 (144)	-	No parasitoids were observed
1/8/14	4/8/14	6.7 (153)	-	
11/8/14	14/8/14	29 (455)	-	
16/8/14	19/8/14	13.7 (247)	-	
29/8/14	2/9/14	7.3 (110)	-	

Table 4.4b: Percent parasitization of *Chilo partellus* larvae

Germplasm	Days after Germination (DAG)	Date and no. of plants dissected	No. of larvae recovered	No of pupae formed	Percentage of larvae parasitized	Remarks
Inbred lines	30	18/7/14 (20)	74	72	Nil	Cotesia was present in all the parasitized larvae.
	40	27/7/14 (10)	30	29	Nil	
Tr. No. 75	30	3/08/14 (20)	44	38	Nil	
	35	7/08/14 (10)	30	26	6.67	
Tr. No. 76	30	11/8/14 (10)	22	15	9.09	
	36	16/8/14 (15)	45	36	6.67	
	40	20/8/14 (10)	20	15	5.00	
Tr. No. 77	35	25/8/14 (20)	36	26	8.33	
	42	2/9/14 (10)	19	16	5.26	

KOLH

Egg Parasitoids

Date of Sowing: 21/07/2014

Date of germination: 26/07/2014

Table 4.5a: Percent incidence of egg parasitoids of *Chilo partellus*

Date of Egg exposed	Date of eggs collected	Parasitization (%)
11/08/2014	12/08/2014	Nil
18/08/2014	19/08/2014	Nil
25/08/2014	26/08/2014	Nil
01/09/2014	02/09/2014	Nil
08/09/2014	09/09/2014	Nil
15/09/2014	16/09/2014	Nil
22/09/2014	23/09/2014	Nil
29/09/2014	30/09/2014	Nil

Table 4.5b: Percent parasitization of *Chilo partellus* larvae

Meteorological Week	Date of dissection of plants	No. of larvae recovered from 20 plants	Parasitization (%)
22.9.2014	22/09/2014	27	3.70

MET V: Evaluation of insecticides against maize stem borer, *Chilo partellus* during Kharif, 2014

DELH

Variety: HQPM1

Date of infestation: 06.08.14

Date of spray: 08.08.14

Date of observation: 01.09.14

Table 5.a. Efficacy of insecticides against *Chilo partellus* in terms of LIR

Sr. No.	Insecticide	Dose (mL/L water)	Mean LIR
1	Chlorantriliprole 20 SC	0.3	2.08
2	Chlorantriliprole 20 SC	0.4	2.64
3	Flubendiamide 480 SC	0.1	2.47
4	Flubendiamide 480 SC	0.2	2.47
5	Novaluron 10EC	0.75	2.45
6	Novaluron 10EC	1	2.24
7	Deltamethrin 2.8 EC	0.4	2.26
8	Control (Water)	--	4.87

Mean of three replications

E15

KARN

Variety: HQPM 1

Date of spray : 02/08/14

Date of artificial infestation: 04/08/14

Date of observation: 29/08/14

Table 5.b: Efficacy of insecticides against *Chilo partellus* in terms of LIR

Sl. No	Treatment	Dose (mL/L water)	Mean LIR
1	Chlorantaniliprole 20 SC	0.3	1.51
2	Chlorantaniliprole 20 SC	0.4	1.39
3	Flubendiamide 480 SC	0.1	1.42
4	Flubendiamide 480 SC	0.2	1.34
5	Novaluron 10 EC	0.75	2.36
6	Novaluron 10 EC	1.0	2.25
7	Decis 2.8 EC	1.0	2.04
8	Control (Water)	-	5.95

Mean of three replications

HYDE

Variety/hybrid: DHM 117

Date of sowing: 14.8.2014

Date of infestation: 03.09.2014

Date of spray: 05.09.14

Table 5.c: Efficacy of insecticides against *Chilo partellus* in terms of LIR

S.No.	Treatments / insecticide	Dose (mL/L water)	Mean LIR
1.	Chlorantriliniprole 20 SC	0.3	2.65
2.	Chlorantriliniprole 20 SC	0.4	2.55
3.	Flubendiamide 480 SC	0.1	2.88
4.	Flubendiamide 480 SC	0.2	2.36
5.	Novaluron 10EC	0.75	2.75
6.	Novaluron 10EC	1.0	2.24
7.	Deltamethrin 2.8 EC	1.0	3.55
8.	Control (Water)	-	4.56

Mean of three replications

LUDH

Hybrid: PMH 1

Date of sowing: 18.7.14

Date of Germination.: 23.7.14

Date of insect release: 4.8.14

Date of spray: 7.8.14

Table 5.d: Efficacy of insecticides against *Chilo partellus* in terms of LIR

Insecticide	Dose (mL/L water)	Infestation (%) Before spray	Infestation one week after spray		Incidence 3 weeks after spray		LIR at 3 weeks after spray	Grain yield (q/ha)
			*Infested plants	#Dead heart	*Infested plants	#Dead heart		
Chlorantriliprole 20 SC	0.3	30.19	14.26 (21.99)	1.02 (1.39)	13.31 (21.32)	1.02 (1.39)	2.40	58.75
Chlorantriliprole 20 SC	0.4	33.40	12.12 (20.20)	0.54 (1.20)	11.80 (19.96)	1.03 (1.33)	2.73	62.82
Flubendiamide 480 SC	0.1	38.54	13.02 (21.03)	1.04 (1.40)	11.98 (19.92)	2.08 (1.68)	3.23	57.45
Flubendiamide 480 SC	0.2	33.31	12.17 (20.39)	1.07 (1.40)	11.13 (19.35)	1.06 (1.40)	2.70	59.86
Novaluron 10EC	0.75	32.29	13.04 (20.66)	1.11 (1.36)	9.15 (17.56)	3.35 (1.96)	3.80	56.67
Novaluron 10EC	1.0	36.46	14.81 (22.56)	1.12 (1.42)	8.18 (16.55)	1.61 (1.61)	3.93	58.94
Deltamethrin 2.8 EC	1.0	29.79	10.26 (18.66)	0.53 (1.20)	7.61 (15.55)	1.09 (1.41)	3.50	60.69
Control (Water)	-	41.95	46.29 (42.85)	7.46 (2.87)	43.01 (40.96)	17.13 (4.21)	6.07	49.91
CD (p=0.05)		NS	(5.62)	(0.78)	(5.69)	(0.83)		6.38

* Figures in parentheses are arc sine transformed values. # Figures in parentheses n+1 sq. root transformed values

KOLH

Date of Sowing: 28.7.14

Date of spray: 13.8.14

Date of infestation: 15.8.14

Date of second spray: 17.8.14

* Heavy rains received immediately after spraying.

Table 5.e: Efficacy of insecticides against *Chilo partellus* in terms of LIR

S.No.	Chemical Name	Dose (mL/L water)	Mean LIR	Grain Yield (kg/ha)
1	Chlorantriliprole 20 SC	0.3	4.29	3017
2	Chlorantriliprole 20 SC	0.4	4.13	2994
3	Flubendiamide 480 SC	0.1	3.62	3883

4	Flubendiamide 480 SC	0.2	3.16	4522
5	Novaluron 10 EC	0.75	4.15	3944
6	Novaluron 10 EC	1.0	3.98	3533
7	Deltamethrin 2.8 EC	1.0	4.59	4189
8	Control	Water	4.87	2983

Mean of three replications

UDAI

Variety: Pratap Makka-5

Date of sowing: 13.07.14

Date of germination: 19.07.14

Date of release: 2/08/14

Table 5.f: Efficacy of insecticides against *Chilo partellus* in terms of LIR

S. No	Treatment	Dose (mL/ L water)	Mean LIR	
			Before spray	After spray
1	Chlorantaniliprole 20 SC	0.3	2.33	1.60
2	Chlorantaniliprole 20 SC	0.4	2.26	1.46
3	Flubendiamide 480 SC	0.1	3.06	1.26
4	Flubendiamide 480 SC	0.2	2.33	1.06
5	Novaluron 10 EC	0.75	2.53	2.33
6	Novaluron 10 EC	1.0	2.66	2.20
7	Deltamethrin 2.8 EC	0.4	2.66	2.13
8	Control	Water	5.60	6.20

Mean of three replications

MET VI: Assessment of crop losses caused by *Chilo partellus*

DELH

Area sampled: Agronomy trials of IIMR

Variety: HQPM1

Table 6.a: Estimated crop loss in maize due to *C. partellus* using crop loss assessment formula

Treatment	Sub Treatment	1	2	3	4	5	6	7	8	9	Crop loss (%)
Permanent bed	Maize-Wheat-Moongbean	313	24	4	0	2	3	1	0	9	4.11
	Maize-Chickpea-Sesbania	357	52	2	2	0	0	0	0	15	4.72
	Maize-Mustard-Moongbean	475	24	3	3	2	2	1	0	6	2.29
Zero Tillage	Maize-Wheat-Moongbean	342	8	1	1	1	0	0	0	4	1.54
	Maize-Chickpea-sesbania	475	16	3	1	2	1	0	0	1	0.89
	Maize-Mustard-Moongbean	406	10	0	0	0	0	0	1	0	0.39
	Maize-Maize-Sesbania	428	9	0	0	0	0	0	0	0	0.17
Conventional Tillage	Maize-Wheat-Moongbean	384	28	0	0	0	0	0	0	0	0.55
	Maize-Chickpea-sesbania	461	10	0	0	2	0	0	0	0	0.33
	Maize-Mustard-Moongbean	394	22	0	0	0	0	0	0	0	0.43
	Maize-Maize-Sesbania	359	28	3	1	1	0	0	0	0	0.9

LUDH

Table 6.b: Estimated crop loss in maize due to *C. partellus* using crop loss assessment formula

LIR	Village-Chaggran, Hoshiarpur		Village-Mal Hoshiarpur	Majra,	Village- Loppo, Ludhiana	Village- Chaklan, Ludhiana
1	151	144	86	101	51	42
2	14	12	3	7	9	29
3	10	16	4	7	14	11
4	6	11	8	5	8	9
5	4	2	1	2	5	2
6	2	0	0	2	2	1
7	0	1	0	1	2	0
8	2	3	4	0	4	0
9	19	11	17	16	11	1
Name of Cultivar	PMH 1	PMH 1	PMH 1	PMH 1	PMH 1	DKC 9125
*Actual Yield obtained q/ha	43.75	45	40	42.5	40	47.5
Yield potential q/ha	52.5	52.5	52.5	52.5	52.5	55
Expected yield as per formula q/ha	45.42	46.69	42.23	44.39	40.49	49.56
Crop loss due to <i>C. partellus</i> as per formula	7.08	5.81	10.27	8.11	12.01	5.43

Table 6.c. Validation of crop loss formula at Delhi and Ludhiana

Location	Cultivar	Replication	calculated yield(q/ha)	Actual yield	% variation
Delhi	HQPM1	1	43.15	49.78	-15.37
		2	42.88	51.13	-19.26
		3	45.00	45.64	-1.43
		4	43.97	37.02	15.80
		5	44.31	42.46	4.17
		6	44.60	41.19	7.64
		7	44.82	44.23	1.33
		8	44.92	45.23	-0.68
		9	44.75	38.74	13.43
		10	44.85	45.12	-0.61
		11	44.81	36.87	17.72
		12	44.60	40.00	10.31
Ludhiana	PMH1	1	45.42	43.75	3.68
		2	46.69	45.00	3.62
		3	42.23	40.00	5.28
		4	44.39	42.50	4.26
		5	40.49	40.00	1.21
	DKC 9125	6	49.56	47.50	4.16

MET VII: Pest management in maize ecosystem through habitat management

Location: IIMR farm, Ladhowal, Ludhiana

Cultivars: Maize : PMH1
Cowpea: Sukomal

Date of sowing: Maize/Till/Sorghum/Marigold: 11 and 12 .7.14

Date of germination: 22.07.14

Date of transplantation of marigold: 20.08.14

Table 7.a: Components of habitat manipulation for management of *Chilo partellus*

Agricultural Practice	Components of IPM/Habitat management			Plant protection measures
	Intercropping	Trap crop	Flowering refuge/alternate host	
Module 1-T1	Maize+Cowpea	-	-	-
Module 2 -T2	Maize+Cowpea	Sorghum	-	-
Module 3-T3	Maize+Cowpea	-	Sesamum	-
Module 4-T4	Maize+Cowpea	-	Marigold	-
Module 5-T5	Maize+Cowpea	Sorghum	Sesamum	-
Module 6-T6	Maize+Cowpea	Sorghum	Marigold	-
Module 7-T7	Maize+Cowpea	-	Sesamum+Marigold	-
Module 8-T8	Maize+Cowpea	Sorghum	Sesamum+Marigold	-
Farmer Practice-T9	Maize	-	-	Need based application of carbofuron granules
Control-T10	Maize	-	-	No insecticide application

Table 7.b: LIR and dead hearts due to *C. partellus* observed under different management practices

Treatment	LIR	Dead hearts (%)	Yield (kg/ha)
M+C	1.90	0.11	3143.00
M+C+S	1.93	0.10	3439.88
M+C+T	1.69	0.06	4311.42
M+C+Mg	1.48	0.04	4617.94
M+C+S+T	1.40	0.04	3676.11

M+C+S+Mg	1.35	0.03	3464.57
M+C+T+Mg	1.25	0.01	3296.91
M+C+S+T+Mg	1.38	0.04	2271.77
M (Farmer's practice)	1.59	0.06	3996.00
Maize	1.99	0.10	5163.42

M= Maize; C= Cowpea; S=Sorghum; T=Sesamum; Mg=Marigold

Biochemistry

S. No.	Contents	Page No.
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2.	Protein quality and Oil content of newly introduced maize inbreds received WNC Hyderabad	BC20
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BIOCHEMISTRY

Maize is a globally important crop mainly utilized as feed, food and raw material for diverse industrial applications. Among cereals, it occupies third place after wheat and rice and is a staple food for a large segment of population worldwide particularly in the Asian as well as African countries. In India, maize is the third most important crop and is a staple food for millions of people residing particularly in Assam, Bihar, Gujarat, Rajasthan, Madhya Pradesh and Himachal Pradesh. The quality of maize is poor as the biochemists had demonstrated several decades ago that maize protein is nutritionally deficient because of the limiting quantities of two essential amino acids lysine and tryptophan. Improving the nutritional quality of maize is, therefore, an important research area for the maize scientists working worldwide. The biochemical characterization and identification of suitable germplasm is, therefore, the major prerequisite in developing nutritionally improved maize cultivars. The biochemistry laboratory of Indian Institute of Maize Research is the centralized analytical facility which helps in developing nutritionally improved maize particularly quality protein maize (QPM) cultivars across India. The Biochemistry laboratory of Indian Institute of Maize Research facilitates the biochemical analysis of maize germplasm received from various maize centres of the coordinating unit and State Agricultural Universities. The laboratory is well equipped with state of the art instruments such as Ultra Performance Liquid Chromatography (UPLC), automated geltech, automatic solvent extractor system, vacuum concentrator, lypholyzer, NIRT, double beam spectrophotometer, fermenter, alcohol distillation system, polarimeter, etc. The laboratory meets the requirement for analysis of various biochemical parameters such as protein quality (protein, tryptophan and lysine), carbohydrate profile (starch, sugar, amylose and amylopectin), oil, carotenoids etc. across India.

During the period of 2014–2015 a large number of samples were analyzed for various quality parameters viz. protein, tryptophan, lysine, oil, sugar, starch, etc. Around 1050 samples were analyzed for protein quality, 98 for sugar, 149 for starch, 66 for oil content, 80 for starch profile i.e. amylose and amylopectin content and 80 for resistant starch content.

QPM development requires continuous monitoring of protein quality. In QPM analysis, the kernels were first screened on the basis of opaqueness to select the representative sample. Out crossed as well as non uniform kernels were discarded. The endosperm was separated, defatted and processed for protein quality. Germplasm having threshold concentrations of protein quantity ($\geq 9\%$ protein) along with quality ($\geq 0.6\%$ tryptophan in the endosperm protein) was selected and identified as promising QPM material.

Protein quality of newly introduced maize inbreds received WNC Hyderabad

In the first set of experiment a total of 588 newly introduced inbreds received from Winter Nursery Center, Hyderabad were analyzed for protein quality. The kernels were screened on the basis of opaqueness to select the representative sample containing 25 to 50% of opaqueness. Out crossed as well as non uniform kernels were discarded. The endosperm was separated, defatted and processed for protein quality. The range of protein was 7.26 to 13.78 per cent with lowest and highest values being exhibited by the genotypes HighOilQPMc13-BBB-71-BBB and S01SIWQ-2-BBB-74-BBB, respectively. The range of tryptophan was 0.30 {S99TLYQ-HG-

AB*4-17-BBB} to 0.87 {S99TLWQ-1-BBB-18-BBB} per cent (Table 1). A total of 112 lines were found to possess the required concentrations of protein quality (Table 1.1)

Table 1: Protein quality of newly introduced maize inbreds received WNC Hyderabad

S. NO.	PEDIGREE	PROTEIN (%)	TRP (%)	100KWT	SP.GR
1.	P61C1-BBB-2-BBB	10.46	0.49	22.1	1.3
2.	P61C1-BBB-3-BBB	10.78	0.56	20.64	1.15
3.	P61C1-BBB-5-BBB	9.68	0.51	22.85	1.2
4.	P61C1-BBB-11-BBB	9.57	0.42	18.03	1.2
5.	P61C1-BBB-12-BBB	10.23	0.48	20.58	1.14
6.	P61C1-BBB-16-BBB	9.24	0.47	20.79	1.16
7.	P61C1-BBB-19-BBB	10.91	0.34	19.31	1.29
8.	P61C1-BBB-20-BBB	8.61	0.48	23.64	1.24
9.	P61C1-BBB-22-BBB	8.21	0.44	18.8	1.25
10.	P61C1-BBB-24-BBB	9.15	0.49	20.1	1.18
11.	P61C1-BBB-26-BBB	8.8	0.54	14.59	1.12
12.	P61C1-BBB-28-BBB	10.13	0.46	17.95	1.12
13.	P61C1-BBB-30-BBB	10.98	0.54	21.82	1.28
14.	P61C1-BBB-31-BBB	8.02	0.54	22.79	1.2
15.	P61C1-BBB-34-BBB	10.3	0.53	15.7	1.21
16.	P61C1-BBB-35-BBB	8.41	0.53	18.58	1.24
17.	P61C1-BBB-36-BBB	9.75	0.48	29.51	1.18
18.	P61C1-BBB-39-BBB	8.57	0.62	19.64	1.16
19.	P61C1-BBB-40-BBB	9.71	0.53	32.41	1.25
20.	P61C1-BBB-41-BBB	9.08	0.53	22.5	1.18
21.	P61C1-BBB-43-BBB	10.7	0.61	14.11	1.18
22.	P61C1-BBB-45-BBB	8.52	0.67	18.59	1.24
23.	P61C1-BBB-46-BBB	9.96	0.57	16	1.23
24.	P61C1-BBB-47-BBB	10.61	0.57	22.63	1.19
25.	P61C1-BBB-48-BBB	11.27	0.68	16.43	1.17
26.	P61C1-BBB-6-BBB	10.84	0.38	30.35	1.21
27.	P61C1-BBB-7-BBB	11.96	0.41	28.82	1.92
28.	P61C1-BBB-8-BBB	12.6	0.36	23.27	1.12
29.	P61C1-BBB-10-BBB	11.96	0.4	17.5	1.17
30.	P61C1-BBB-42-BBB	9.56	0.41	26.7	1.16
31.	P65C6-BBB-9-BBB	9.74	0.63	19.2	1.2
32.	P65C6-BBB-15-BBB	11.71	0.53	18.78	1.17
33.	P65C6-BBB-17-BBB	9.46	0.55	22.25	1.24
34.	P65C6-BBB-18-BBB	10.24	0.5	22.25	1.24
35.	P65C6-BBB-21-BBB	9.18	0.6	19.86	1.24
36.	P65C6-BBB-23-BBB	10.03	0.66	17.5	1.17

37.	P65C6-BBB-24-BBB	10.81	0.44	18.57	1.24
38.	P65C6-BBB-3-BBB	9.14	0.56	14.94	1.07
39.	P65C6-BBB-4-BBB	10.86	0.47	19.14	1.13
40.	P65C6-BBB-14-BBB	10.62	0.63	18.36	1.15
41.	P65C6-BBB-16-BBB	10.63	0.6	20.38	1.13
42.	P65C6-BBB-17-BBB	10.04	0.47	23.25	1.16
43.	P65C6-BBB-19-BBB	8.73	0.52	16.25	1.16
44.	P65C6-BBB-26-BBB	9.43	0.53	18.84	1.18
45.	P65C6-BBB-29-BBB	9.81	0.41	18.37	1.22
46.	P65C6-BBB-31-BBB	9.82	0.51	22.06	1.16
47.	P65C6-BBB-32-BBB	10.74	0.62	20.03	1.5
48.	P65C6-BBB-39-BBB	9.92	0.62	30.33	1.21
49.	P65C6-BBB-41-BBB	10.88	0.47	21.43	1.19
50.	P65C6-BBB-44-BBB	9.82	0.6	22.11	1.16
51.	P66C0-BBB-7-BBB	7.36	0.66	16.1	1.15
52.	P66C0-BBB-9-BBB	7.89	0.59	17.09	1.22
53.	P66C0-BBB-11-BBB	7.82	0.58	19.14	1.2
54.	P66C0-BBB-21-BBB	8.6	0.63	20.09	1.18
55.	P66C0-BBB-23-BBB	8.2	0.66	15.49	1.19
56.	P66C0-BBB-25-BBB	7.86	0.62	17.72	1.18
57.	P66C0-BBB-26-BBB	8.5	0.47	22.2	1.17
58.	P66C0-BBB-28-BBB	8	0.51	21.4	1.19
59.	P66C0-BBB-5-BBB	11.59	0.4	28.1	1.17
60.	P66C0-BBB-7-BBB	11.87	0.37	21.3	1.12
61.	P66C0-BBB-8-BBB	11.99	0.33	21.4	1.13
62.	P66C0-BBB-10-BBB	10.24	0.34	26	1.13
63.	P66C0-BBB-11-BBB	11.01	0.38	21.1	1.17
64.	P66C0-BBB-16-BBB	12.53	0.32	24.4	1.11
65.	P66C0-BBB-17-BBB	10.15	0.36	17.8	1.19
66.	P66C0-BBB-18-BBB	11.63	0.36	24.3	1.22
67.	P66C0-BBB-22-BBB	10.88	0.41	29.3	1.22
68.	P66C0-BBB-26-BBB	10.57	0.55	20.9	1.16
69.	P66C0-BBB-29-BBB	11.16	0.44	30.4	1.22
70.	P66C0-BBB-30-BBB	10.41	0.54	16	1.14
71.	P66C0-BBB-36-BBB	9.2	0.62	20.7	1.22
72.	P66C0-BBB-44-BBB	10.34	0.62	19.8	1.16
73.	P66C0-BBB-45-BBB	13.33	0.34	19.4	1.21
74.	P66C0-BBB-47-BBB	11.07	0.41	22.4	1.24
75.	P66C0-BBB-51-BBB	9.81	0.47	21.4	1.19
76.	P66C0-BBB-54-BBB	11.81	0.43	24.1	1.15
77.	P66C0-BBB-59-BBB	11.44	0.38	21.3	1.12

78.	P66C0-BBB-60-BBB	10.01	0.34	20.4	1.13
79.	P66C0-BBB-61-BBB	10.88	0.35	18.6	1.16
80.	G17QC8-BBB-5-BBB	9.42	0.63	16.6	1.19
81.	G17QC8-BBB-6-BBB	10.13	0.61	26.7	1.16
82.	G17QC8-BBB-12-BBB	8.95	0.63	23.1	1.16
83.	G17QC8-BBB-15-BBB	11.31	0.49	15.9	1.14
84.	G17QC8-BBB-28-BBB	9.28	0.45	19.61	1.15
85.	G17QC8-BBB-30-BBB	12.62	0.45	14.02	1.16
86.	G17QC8-BBB-34-BBB	8.24	0.53	19.08	1.12
87.	G17QC8-BBB-36-BBB	10.62	0.61	15.68	1.21
88.	G17QC8-BBB-38-BBB	10.72	0.49	24.15	1.1
89.	G18QC8-BBB-3-BBB	8.89	0.62	26.38	1.2
90.	G18QC8-BBB-11-BBB	9.28	0.62	19.05	1.12
91.	G25QC23-BBB-2-BBB	9.54	0.61	18.38	1.12
92.	G25QC23-BBB-8-BBB	9.09	0.62	22.11	1.16
93.	G25QC23-BBB-15-BBB	9.12	0.45	14.51	1.12
94.	G25QC23-BBB-18-BBB	11.5	0.45	14.64	1.13
95.	G25QC23-BBB-20-BBB	7.97	----	----	----
96.	G25QC23-BBB-23-BBB	10.49	0.31	22.63	1.13
97.	G26QC23-BBB-5-BBB	12.2	0.3	24.85	1.13
98.	G26QC23-BBB-17-BBB	11.84	0.45	20.15	1.12
99.	G26QC23-BBB-18-BBB	9.97	0.56	20.77	1.15
100.	G26QC23-BBB-27-BBB	12.67	0.3	13.21	1.15
101.	G26QC23-BBB-28-BBB	12.04	0.37	15.93	1.22
102.	S99TLYQ-HG-AB*4-7-BBB	7.4	0.78	11.49	1.05
103.	S99TLYQ-HG-AB*4-8-BBB	9.65	0.69	28.13	1.22
104.	S99TLYQ-HG-AB*4-17-BBB	8.36	0.3	22.05	1.22
105.	S99TLYQ-HG-AB*4-20-BBB	9.72	0.4	22.31	1.24
106.	S99TLYQ-HG-AB*4-22-BBB	7.64	0.6	19.52	1.15
107.	S99TLYQ-HG-AB*4-23-BBB	8.81	0.3	18.76	1.25
108.	S99TLYQ-HG-AB*4-24-BBB	8.16	0.61	17.42	1.16
109.	S99TLYQ-HG-AB*4-25-BBB	9	0.37	21.32	1.18
110.	S99TLYQ-HG-AB*4-26-BBB	9.34	0.46	23.55	1.18
111.	S99TLYQ-HG-AB*4-32-BBB	8.02	0.65	16.17	1.24
112.	S99TLYQ-HG-AB*4-33-BBB	9	0.67	18.27	1.22
113.	S99TLYQ-HG-AB*4-34-BBB	8.56	0.49	17.18	1.23
114.	S99TLYQ-HG-AB*4-5-BBB	8.8	0.48	18.93	1.18
115.	S99TLYQ-HG-AB*4-6-BBB	8.54	0.37	14.69	1.13
116.	S99TLYQ-HG-AB*4-7-BBB	9.61	0.67	19.61	1.1
117.	S99TLYQ-HG-AB*4-9-BBB	10.43	0.6	20.37	1.1
118.	S99TLYQ-HG-AB*4-11-BBB	9.73	0.57	22.7	1.19

119.	S99TLYQ-HG-AB*4-12-BBB	9.26	0.45	20.29	1.13
120.	S99TLYQ-HG-AB*4-13-BBB	8.76	0.7	24.35	1.16
121.	S99TLYQ-HG-AB*4-17-BBB	9.9	0.61	19.46	1.14
122.	S99TLYQ-HG-AB*4-22-BBB	9.78	0.64	20.5	1.08
123.	S99TLYQ-HG-AB*4-23-BBB	9.12	0.55	21.76	1.2
124.	S99TLYQ-HG-AB*4-25-BBB	9.32	0.6	22.2	1.17
125.	S99TLYQ-HG-AB*4-28-BBB	9.31	0.44	22.9	1.15
126.	S99TLYQ-HG-AB*4-29-BBB	9.21	0.6	27.22	1.18
127.	S99TLYQ-HG-AB*4-32-BBB	8.44	0.7	20.89	1.1
128.	S99TLYQ-HG-AB*4-34-BBB	10.45	0.61	18.31	1.21
129.	S99TLYQ-HG-AB*4-36-BBB	9.43	0.63	23.11	1.22
130.	S99TLYQ-HG-AB*4-37-BBB	9.52	0.62	13.98	1.1
131.	S99TLYQ-HG-AB*4-47-BBB	8.89	0.61	17.61	1.17
132.	S00TLYQ-HG-BBB-3-BBB	8.94	0.67	17.37	1.16
133.	S00TLYQ-HG-BBB-8-BBB	8.81	0.49	20.74	1.22
134.	S00TLYQ-HG-BBB-9-BBB	7.27	0.64	20.29	1.19
135.	S00TLYQ-HG-BBB-10-BBB	7.71	0.69	20.76	1.15
136.	S00TLYQ-HG-BBB-15-BBB	8.26	0.6	28.25	1.13
137.	S00TLYQ-HG-BBB-17-BBB	7.29	0.67	18.88	1.18
138.	S00TLYQ-HG-BBB-23-BBB	7.36	0.65	19.46	1.14
139.	S00TLYQ-HG-BBB-29-BBB	9.61	0.5	23.55	1.18
140.	S00TLYQ-HG-BBB-30-BBB	7.66	0.71	23.14	1.16
141.	S00TLYQ-HG-BBB-31-BBB	11.03	0.48	19.64	1.23
142.	S00TLYQ-HG-BBB-32-BBB	8.86	0.57	27.47	1.14
143.	S00TLYQ-HG-BBB-33-BBB	8.82	0.6	20.46	1.1
144.	S00TLYQ-HG-BBB-34-BBB	7.83	0.7	22.68	1.13
145.	S00TLYQ-HG-BBB-35-BBB	9.42	0.65	17.38	1.24
146.	S00TLYQ-HG-BBB-36-BBB	11.5	0.47	17.34	1.16
147.	S00TLYQ-HG-BBB-37-BBB	9.02	0.58	20.14	1.12
148.	S00TLYQ-HG-BBB-38-BBB	7.83	0.47	22.86	1.2
149.	S00TLYQ-HG-BBB-40-BBB	8.9	0.68	18.5	1.16
150.	S00TLYQ-HG-BBB-48-BBB	8.06	0.6	18.6	1.16
151.	S87(P65Q)-BBB-6-BBB	7.94	0.61	23	1.15
152.	S87(P65Q)-BBB-11-BBB	9.65	0.6	23	1.14
153.	S87(P65Q)-BBB-13-BBB	9.52	0.62	25	1.17
154.	G17QC8-BBB-30-BBB	8.88	0.67	22.2	1.1
155.	S87(P65Q)-BBB-18-BBB	10.47	0.58	26.5	1.13
156.	S87(P65Q)-BBB-19-BBB	10.45	0.49	22.5	1.11
157.	S87(P65Q)-BBB-20-BBB	9.5	0.67	22.1	1.14
158.	S87(P65Q)-BBB-23-BBB	8.55	0.54	22.7	1.19
159.	S87(P65Q)-BBB-25-BBB	9.17	0.57	17.8	1.16

160.	S87(P65Q)-BBB-30-BBB	7.81	0.75	32.5	1.05
161.	S87(P65Q)-BBB-33-BBB	9.31	0.68	25.1	1.03
162.	S87(P65Q)-BBB-34-BBB	10.06	0.57	23.8	1.13
163.	S87(P65Q)-BBB-36-BBB	10.39	0.57	23	1.15
164.	S87(P66Q)-BBB-8-BBB	10.41	0.55	23.06	1.21
165.	S87(P66Q)-BBB-20-BBB	8.55	0.54	17.94	1.2
166.	S87(P66Q)-BBB-23-BBB	9.81	0.57	32.44	1.16
167.	P69(58969Q)-BBB-2-BBB	10.3	0.58	22.38	1.12
168.	P69(58969Q)-BBB-3-BBB	9.38	0.59	20.66	1.15
169.	P69(58969Q)-BBB-7-BBB	9.56	0.59	22.05	1.1
170.	P69(58969Q)-BBB-11-BBB	10.44	0.53	26.16	1.19
171.	P69(58969Q)-BBB-12-BBB	10.04	0.56	20.22	1.06
172.	P69(58969Q)-BBB-13-BBB	8.71	0.65	19.69	1.16
173.	P69(58969Q)-BBB-17-BBB	9.13	0.6	27.94	1.12
174.	P69(58969Q)-BBB-18-BBB	9.25	0.56	21.49	1.07
175.	P69(58969Q)-BBB-19-BBB	8.67	0.61	21.27	1.18
176.	P69(58969Q)-BBB-21-BBB	9.21	0.55	23.07	1.21
177.	P69(58969Q)-BBB-23-BBB	9.12	0.52	23.27	1.11
178.	P69(58969Q)-BBB-24-BBB	9.67	0.7	20.2	1.06
179.	P69(58969Q)-BBB-25-BBB	10.39	0.54	29.47	1.09
180.	P69(58969Q)-BBB-28-BBB	9.74	0.64	23.29	1.11
181.	P69(58969Q)-BBB-29-BBB	9.06	0.56	27.72	1.11
182.	P69(58969Q)-BBB-31-BBB	9.58	0.63	25.3	1.15
183.	P69(58969Q)-BBB-34-BBB	11.05	0.41	20.55	1.21
184.	P69(58969Q)-BBB-35-BBB	10.13	0.58	21.13	1.17
185.	P69(58969Q)-BBB-37-BBB	9.39	0.5	22.81	1.2
186.	P69(58969Q)-BBB-39-BBB	9.21	0.57	26.03	1.13
187.	P69(58969Q)-BBB-42-BBB	10.6	0.51	24.27	1.1
188.	P70C0-BBB-2-BBB	11.11	0.44	17.65	1.18
189.	P70C0-BBB-12-BBB	9.94	0.6	19.08	1.12
190.	G33QC20-BBB-1-BBB	11.25	0.55	19.13	1.13
191.	G33QC20-BBB-5-BBB	11.36	0.48	14.71	1.13
192.	G33QC20-BBB-6-BBB	11.44	0.62	17.38	1.16
193.	G33QC20-BBB-10-BBB	10.69	0.55	16.27	1.16
194.	G33QC20-BBB-11-BBB	11.25	0.48	18.03	1.2
195.	G33QC20-BBB-14-BBB	11.49	0.52	12.28	1.02
196.	G33QC20-BBB-15-BBB	9.09	0.62	23.09	1.10
197.	G33QC20-BBB-20-BBB	9.22	0.64	13.95	1.07
198.	G33QC20-BBB-32-BBB	10.58	0.58	16.34	1.17
199.	G34QC24-BBB-5-BBB	8.6	0.67	28.88	1.07
200.	G34QC24-BBB-16-BBB	10.18	0.58	26.8	1.12

201.	G34QC24-BBB-53-BBB	11.05	0.61	22.09	1.16
202.	S01SIYQ-BBB-1-BBB	9.28	0.62	22.87	1.09
203.	S01SIYQ-BBB-2-BBB	11.5	0.55	25.45	1.11
204.	S01SIYQ-BBB-4-BBB	12.59	0.45	20.65	1.15
205.	S01SIYQ-BBB-7-BBB	10.5	0.61	16.06	1.24
206.	S01SIYQ-BBB-11-BBB	11.8	0.56	19.73	1.23
207.	S01SIYQ-BBB-12-BBB	11.6	0.45	20.93	1.23
208.	S01SIYQ-BBB-13-BBB	9.17	0.62	20.67	1.22
209.	S01SIYQ-BBB-15-BBB	10.53	0.44	28.88	1.16
210.	S01SIYQ-BBB-17-BBB	9	0.64	17.27	1.15
211.	S01SIYQ-BBB-19-BBB	11.5	0.56	20.6	1.14
212.	S01SIYQ-BBB-20-BBB	10.3	0.48	16.33	1.17
213.	S01SIYQ-BBB-21-BBB	9.87	0.61	16.69	1.11
214.	S01SIYQ-BBB-23-BBB	11.8	0.42	23.4	1.23
215.	S01SIYQ-BBB-24-BBB	8.85	0.65	17.12	1.14
216.	S01SIYQ-BBB-25-BBB	11.9	0.46	16.19	1.16
217.	S01SIYQ-BBB-26-BBB	9.71	0.58	19.24	1.13
218.	S01SIYQ-BBB-27-BBB	10.44	0.55	23.74	1.13
219.	S01SIYQ-BBB-30-BBB	8.85	0.63	26.32	1.2
220.	S01SIYQ-BBB-32-BBB	10.39	0.35	23.87	1.14
221.	S99SIYQ-BBB-1-BBB	9.97	0.56	18.92	1.18
222.	S99SIYQ-BBB-3-BBB	9.6	0.6	21.58	1.14
223.	S99SIYQ-BBB-4-BBB	9.72	0.52	18.5	1.23
224.	S99SIYQ-BBB-5-BBB	10.37	0.6	26.53	1.21
225.	S99SIYQ-BBB-8-BBB	10.18	0.62	18.18	1.21
226.	S99SIYQ-BBB-14-BBB	9.95	0.65	25.62	1.11
227.	S99SIYQ-BBB-16-BBB	8.76	0.71	19.51	1.22
228.	S99SIYQ-BBB-18-BBB	9.14	0.57	21.88	1.15
229.	S99SIYQ-BBB-22-BBB	9.78	0.61	22.52	1.13
230.	S99SIYQ-BBB-24-BBB	10.07	0.58	19.04	1.19
231.	(CML161/CML165)-BBB-1-BBB	9.3	0.62	24.3	1.16
232.	(CML161/CML165)-BBB-3-BBB	9.39	0.69	26.7	1.16
233.	(CML161/CML165)-BBB-4-BBB	11.04	0.62	19.4	1.14
234.	(CML161/CML165)-BBB-8-BBB	7.93	0.74	21.4	1.19
235.	(CML161/CML165)-BBB-9-BBB	9.42	0.47	25.1	1.09
236.	(CML161/CML165)-BBB-11-BBB	9.73	0.48	18.3	1.22
237.	(CML161/CML165)-BBB-15-BBB	9.3	0.49	23	1.27
238.	(CML161/CML165)-BBB-16-BBB	11.4	0.46	23.6	1.07
239.	(CML161/CML165)-BBB-18-BBB	10.87	0.64	22	1.05

240.	(CML161/CML165)-BBB-20-BBB	9.69	0.6	22.1	1.16
241.	(CML161/CML165)-BBB-21-BBB	11.47	0.37	23.7	1.13
242.	97P65-BBB-4-BBB	12.04	0.37	28.5	1.24
243.	97P65-BBB-5-BBB	11.62	0.35	20.8	1.22
244.	97P65-BBB-7-BBB	11.93	0.38	23.8	1.13
245.	97P65-BBB-8-BBB	11.85	0.32	25	1.09
246.	97P65-BBB-9-BBB	9.47	0.41	21.6	1.14
247.	97P65-BBB-18-BBB	8.42	0.55	25.4	1.1
248.	97P65-BBB-19-BBB	11.31	0.43	19.2	1.01
249.	97P65-BBB-26-BBB	11.08	0.35	24	1.14
250.	97P65-BBB-33-BBB	11	0.43	28.8	1.2
251.	97P65-BBB-34-BBB	9.25	0.4	28.5	1.19
252.	97P65-BBB-38-BBB	8.26	0.41	15.8	1.05
253.	97P65-BBB-39-BBB	9.91	0.41	24.1	1.15
254.	97P65-BBB-40-BBB	9.25	0.62	19	1.19
255.	97P65-BBB-48-BBB	8.82	0.63	19.5	1.22
256.	CML187-BBB	10.43	0.49	16	1.14
257.	CML189-BBB	10.17	0.62	18.5	1.23
258.	CML493-BBB	10.61	0.45	26.5	1.15
259.	CLQ-RCYQ035-B*6	9	0.62	26.3	1.14
260.	CLQ-RCYQ12-B*6	9.43	0.48	21.5	1.13
261.	P69QC3HC7-5-2-1-B*19	10.72	0.62	27.3	1.14
262.	G33QMH103-3-1-5-1-B*10	8.95	0.45	23.9	1.2
263.	S91SYQ-207-1-1-3-B*10	10.86	0.64	17.9	1.19
264.	89[G25Q/MO17]-B-1-4-3-2-7-B*14	10.13	0.63	20.7	1.22
265.	89[G25Q/MO17]-B-4-4-2-2-6-B*14	10.03	0.6	24.3	1.1
266.	89[G25Q/MO17]-B-4-4-1-1-4-B*14	9.48	0.63	17.6	1.21
267.	89[G25Qc1STE18C5/MO1760202-2-BB]-B-2-2-1-3-4-B*5-1-B*7	8.9	0.57	16.5	1.18
268.	P69QC3HC107-1-1H-4-2H-3-1-B-1-B*12	8.79	0.61	27.7	1.2
269.	P61C1-BBB-4-BBB	9.4	0.61	19.4	1.21
270.	P61C1-BBB-9-BBB	8.28	0.6	19	1.19
271.	P61C1-BBB-14-BBB	9.73	0.46	21.2	1.18
272.	P61C1-BBB-17-BBB	9.34	0.47	23.3	1.22
273.	P61C1-BBB-18-BBB	8.38	0.42	21.7	1.21
274.	P61C1-BBB-21-BBB	8.55	0.63	17.9	1.19
275.	P61C1-BBB-23-BBB	7.38	0.77	22.3	1.17
276.	P61C1-BBB-33-BBB	7.99	0.75	20.6	1.14

277.	P65C6-BBB-5-BBB	9.67	0.61	20.2	1.12
278.	P65C6-BBB-8-BBB	9.93	0.62	15.8	1.22
279.	P65C6-BBB-34-BBB	9.49	0.61	21	1.17
280.	P66C0-BBB-1-BBB	7.5	0.64	13.7	1.14
281.	P66C0-BBB-2-BBB	7.34	0.65	17.5	1.25
282.	P66C0-BBB-6-BBB	7.29	0.48	15.7	1.21
283.	P66C0-BBB-13-BBB	8.25	0.47	19.9	1.17
284.	P66C0-BBB-15-BBB	7.95	0.62	19.3	1.21
285.	P66C0-BBB-31-BBB	10.44	0.5	17.8	1.19
286.	P66C0-BBB-1-BBB	11.02	0.5	18.2	1.21
287.	P66C0-BBB-3-BBB	11.6	0.4	22.3	1.12
288.	P66C0-BBB-34-BBB	11.53	0.41	13.6	1.13
289.	P66C0-BBB-35-BBB	10.51	0.51	24.6	1.17
290.	P66C0-BBB-38-BBB	12	0.44	23.2	1.16
291.	P66C0-BBB-55-BBB	12.12	0.42	16.3	1.16
292.	G26QC23-BBB-14-BBB	9.1	0.62	23.9	1.2
293.	S99TLYQ-HG-AB*4-10-BBB	10.39	0.46	28.6	1.19
294.	S99TLYQ-HG-AB*4-16-BBB	9.42	0.62	17.4	1.16
295.	S00TLYQ-HG-BBB-1-BBB	8.03	0.63	13.7	1.14
296.	S00TLYQ-HG-BBB-24-BBB	7.9	0.6	12.6	1.15
297.	S00TLYQ-HG-BBB-42-BBB	9.16	0.71	20.7	1.09
298.	S87(P65Q)-BBB-16-BBB	10.85	0.61	13.5	1.13
299.	S87(P66Q)-BBB-7-BBB	10.94	0.6	19.6	1.15
300.	P69(58969Q)-BBB-4-BBB	9.57	0.63	17.9	1.19
301.	P70C0-BBB-7-BBB	10.88	0.63	17	1.13
302.	P70C0-BBB-8-BBB	11.26	0.42	30.4	1.13
303.	G33QC20-BBB-27-BBB	10.2	0.52	26.1	1.13
304.	G33QC20-BBB-31-BBB	9.33	0.6	15.5	1.19
305.	G33QC20-BBB-36-BBB	10.9	----	26.9	1.17
306.	G34QC24-BBB-44-BBB	10.2	----	17.2	1.23
307.	S01SIYQ-BBB-3-BBB	11.5	----	22.2	1.17
308.	S01SIYQ-BBB-6-BBB	11.6	----	26.4	1.2
309.	S01SIYQ-BBB-10-BBB	10.62	----	25.5	1.16
310.	S01SIYQ-BBB-14-BBB	11	----	30.9	1.19
311.	S01SIYQ-BBB-16-BBB	11.07	----	17.6	1.19
312.	S99SIYQ-BBB-13-BBB	9.87	----	25.3	1.15
313.	S99SIYQ-BBB-20-BBB	9.68	----	19.3	1.14
314.	S99SIYQ-BBB-23-BBB	9.37	----	22.4	1.18
315.	P63C2-BBB-2-BBB	9.49	0.5	21.64	1.08
316.	P63C2-BBB-4-BBB	9.06	0.47	16.27	1.35
317.	P63C2-BBB-11-BBB	7.95	0.42	19.56	1.22

318.	P63C2-BBB-14-BBB	7.48	0.62	25.23	1.14
319.	P63C2-BBB-20-BBB	10.44	0.46	32.05	1.33
320.	P64C1-BBB-6-BBB	8.76	0.37	19.42	1.38
321.	P64C1-BBB-21-BBB	7.92	0.45	15	1.25
322.	P64C1-BBB-26-BBB	8.97	0.64	27.94	1.27
323.	P64C1-BBB-5-BBB	11.63	0.6	19.62	1.09
324.	G15QC7-BBB-6-BBB	7.59	0.61	23.35	1.16
325.	G15QC7-BBB-15-BBB	9.95	0.35	21.15	1.32
326.	G15QC7-BBB-29-BBB	10.54	0.34	20.89	1.16
327.	G15QC7-BBB-40-BBB	----	----	19.24	1.2
328.	G15QC7-BBB-42-BBB	8.63	0.36	20.45	1.27
329.	G23QC19-BBB-1-BBB	8.5	0.38	20.39	1.13
330.	G23QC19-BBB-19-BBB	8.44	0.33	15.63	1.3
331.	G23QC19-BBB-24-BBB	8.66	0.62	18.63	1.16
332.	G24QC19-BBB-6-BBB	10.38	0.45	26.9	1.34
333.	G24QC19-BBB-7-BBB	13.22	0.44	17.68	1.1
334.	G24QC19-BBB-8-BBB	13.17	0.45	17.55	1.25
335.	G24QC19-BBB-10-BBB	11.48	0.44	24.56	1.36
336.	G24QC19-BBB-15-BBB	12.5	0.42	22.34	1.24
337.	G24QC19-BBB-18-BBB	11.78	0.47	17.14	1.22
338.	G24QC19-BBB-21-BBB	11.9	0.63	21.68	1.54
339.	G24QC19-BBB-51-BBB	10.13	0.46	15	0.75
340.	S99TLWQ-1-BBB-9-BBB	7.84	0.48	20.83	1.3
341.	S99TLWQ-1-BBB-10-BBB	9.27	0.45	19.14	1.47
342.	S99TLWQ-1-BBB-14-BBB	10.54	0.64	23.13	1.28
343.	S99TLWQ-1-BBB-16-BBB	9.66	0.5	20.41	1.27
344.	S99TLWQ-1-BBB-17-BBB	10.92	0.37	17.06	1.21
345.	S99TLWQ-1-BBB-18-BBB	11.64	0.87	20.24	1.01
346.	S99TLWQ-1-BBB-21-BBB	8.04	0.65	16.13	1.34
347.	S99TLWQ-1-BBB-26-BBB	11.3	0.42	26.54	1.2
348.	S99TLWQ-1-BBB-48-BBB	8.32	0.63	19.6	1.4
349.	S99TLWQ-1-BBB-50-BBB	9.97	0.45	14.7	1.47
350.	S99TLWQ-1-BBB-53-BBB	10.87	0.42	19.18	1.37
351.	S99TLWQ-1-BBB-57-BBB	10.68	0.44	17.76	1.11
352.	S99TLWQ-1-BBB-59-BBB	8.18	0.42	17.76	1.11
353.	S99TLWQ-HG-A-BBB-1-BBB	8.54	0.46	19.81	1.23
354.	S99TLWQ-HG-A-BBB-3-BBB	8.45	0.47	17.47	1.24
355.	S99TLWQ-HG-A-BBB-17-BBB	8.84	0.45	18.73	1.17
356.	S99TLWQ-HG-A-BBB-24-BBB	10.82	0.42	13.55	1.12
357.	S99TLWQ-HG-A-BBB-61-BBB	8.87	0.45	19.37	1.38
358.	S99TLWQ-HG-A-BBB-65-BBB	7.83	0.47	16.36	1.16

359.	S99TLWQ-HG-BBB-2-BBB	8.8	0.35	30.36	1.89
360.	S99TLWQ-HG-BBB-3-BBB	8.08	0.37	25.45	1.15
361.	S99TLWQ-HG-BBB-9-BBB	11.75	0.6	24.05	1.2
362.	S99TLWQ-HG-BBB-12-BBB	10.35	0.45	22.35	1.24
363.	S99TLWQ-HG-BBB-15-BBB	10.59	0.42	22.39	1.24
364.	S99TLWQ-HG-BBB-21-BBB	10.21	0.44	20.05	1.11
365.	S99TLWQ-HG-BBB-32-BBB	11.88	0.62	17.63	1.1
366.	S99TLWQ-HG-BBB-34-BBB	8.51	0.42	16.89	1.2
367.	S99TLWQ-HG-BBB-62-BBB	9.08	0.35	19.54	1.22
368.	S99TLWQ-HG-BBB-67-BBB	8.94	0.46	25.66	1.16
369.	S99TLYQ-HG-AB*4-2-BBB	8.87	0.44	17.4	1.24
370.	P67C1-BBB-2-BBB	9.43	0.33	25.86	1.29
371.	P67C1-BBB-4-BBB	8.17	0.44	22.27	1.11
372.	P67C1-BBB-11-BBB	9.34	0.36	21.76	1.2
373.	P67C1-BBB-14-BBB	10.13	0.34	18.64	1.16
374.	P67C1-BBB-25-BBB	9.96	0.45	22.46	1.24
375.	P67C1-BBB-31-BBB	10.02	0.63	24.85	1.12
376.	P67C1-BBB-32-BBB	8.6	0.47	26.38	1.31
377.	P67C1-BBB-33-BBB	9.5	0.45	24.16	1.2
378.	P67C1-BBB-34-BBB	10.63	0.44	24.46	1.35
379.	P67C1-BBB-37-BBB	10.04	0.46	26.41	1.32
380.	P67C1-BBB-38-BBB	8.57	0.47	13.35	1.66
381.	P67C1-BBB-44-BBB	10.27	0.35	12.95	1.07
382.	P67C1-BBB-51-BBB	10.84	0.46	31.67	1.31
383.	P67C1-BBB-52-BBB	11.69	0.38	18.36	1.14
384.	P67C1-BBB-54-BBB	9.25	0.47	24.51	1.22
385.	P67C1-BBB-56-BBB	9.68	0.45	18.33	1.3
386.	P68C0-BBB-8-BBB	10.51	0.42	13.05	1.3
387.	G27QC3-BBB-3-BBB	11.51	0.35	16.12	1.15
388.	G27QC3-BBB-7-BBB	12.42	0.32	28.62	1.1
389.	G27QC3-BBB-22-BBB	9.13	0.63	19.33	1.2
390.	G27QC3-BBB-24-BBB	8.24	0.46	27.63	1.25
391.	G27QC3-BBB-25-BBB	11.03	0.48	17.3	1.23
392.	G27QC3-BBB-30-BBB	10.59	0.46	20.46	1.27
393.	G27QC3-BBB-32-BBB	10.84	0.34	23.18	1.15
394.	G29QC2-BB-16-BBB	10.35	0.62	16.13	1.34
395.	G31QC2-BBB-5-BBB	----	----	17.12	1.42
396.	G31QC2-BBB-12-BBB	11.06	0.6	17.51	1.25
397.	G31QC2-BBB-13-BBB	9.76	0.64	14.4	1.2
398.	G31QC2-BBB-20-BBB	9.34	0.47	12.81	1.28
399.	G31QC2-BBB-23-BBB	9.7	0.64	11.28	1.12

400.	G31QC2-BBB-30-BBB	10.23	0.34	22.57	1.25
401.	G31QC2-BBB-35-BBB	9.92	0.48	16.44	1.34
402.	G31QC2-BBB-49-BBB	9.88	0.46	15.24	1.27
403.	G31QC2-BBB-51-BBB	10.48	0.47	31.13	1.19
404.	G32QC12-BBB-3-BBB	9.44	0.64	16.35	1.16
405.	G32QC12-BBB-8-BBB	10.37	0.62	26.28	1.31
406.	G32QC12-BBB-20-BBB	10.01	0.45	22.24	1.11
407.	G32QC12-BBB-21-BBB	9.03	0.63	26.32	1.19
408.	G32QC12-BBB-33-BBB	10.87	0.34	32.73	1.25
409.	S91SIWQ-BBB-5-BBB	10.17	0.36	28.09	1.17
410.	S91SIWQ-BBB-6-BBB	13.67	0.32	34.58	1.33
411.	S91SIWQ-BBB-10-BBB	10.83	0.33	22.91	1.14
412.	S91SIWQ-BBB-11-BBB	12.26	0.3	30.42	1.26
413.	S91SIWQ-BBB-12-BBB	9.47	0.37	35.94	1.28
414.	S91SIWQ-BBB-16-BBB	11.08	0.35	35.25	1.35
415.	S91SIWQ-BBB-17-BBB	10.24	0.34	35.15	1.25
416.	S91SIWQ-BBB-19-BBB	13.64	0.32	33.04	1.27
417.	S91SIWQ-BBB-22-BBB	13.72	0.33	25.16	1.25
418.	S91SIWQ-BBB-24-BBB	10.46	0.37	34.85	1.34
419.	S91SIWQ-BBB-25-BBB	11.26	0.31	24.48	1.22
420.	S91SIWQ-BBB-29-BBB	11.46	0.35	31.06	1.29
421.	S91SIWQ-BBB-31-BBB	9.22	0.39	36.01	1.28
422.	S91SIWQ-BBB-37-BBB	7.96	0.48	26.34	1.31
423.	S91SIWQ-BBB-38-BBB	11.29	0.35	30.1	1.25
424.	S91SIWQ-BBB-47-BBB	9.31	0.35	33.23	1.27
425.	S91SIWQ-BBB-48-BBB	11.15	0.3	26.28	1.19
426.	S91SIWQ-BBB-49-BBB	11.48	0.32	34.17	1.31
427.	S91SIWQ-BBB-53-BBB	10.74	0.61	16.08	1.34
428.	S91SIWQ-BBB-60-BBB	11.31	0.31	27.49	1.24
429.	S91SIWQ-BBB-61-BBB	10.1	0.35	28.02	1.4
430.	S91SIWQ-BBB-63-BBB	8.32	0.37	33.83	1.3
431.	S91SIWQ-BBB-68-BBB	12.5	0.3	23.13	1.28
432.	S91SIWQ-BBB-69-BBB	10.85	0.36	19.86	1.24
433.	S91SIWQ-BBB-71-BBB	11.91	0.33	20.32	1.27
434.	S91SIWQ-BBB-72-BBB	12.13	0.3	28.89	1.31
435.	S91SIWQ-BBB-77-BBB	11.58	0.35	32.83	1.26
436.	S91SIWQ-BBB-79-BBB	10.3	0.37	38.27	1.47
437.	S91SIWQ-BBB-80-BBB	13.15	0.32	31.29	1.57
438.	S91SIWQ-BBB-82-BBB	12.02	0.35	27.07	1.23
439.	S91SIWQ-BBB-74-BBB	12.79	0.34	30.98	1.29
440.	S01SIWQ-2-BBB-8-BBB	9.39	0.51	25.22	1.26

441.	S01SIWQ-2-BBB-10-BBB	10.78	0.32	20.75	1.15
442.	S01SIWQ-2-BBB-12-BBB	9.33	0.38	22.21	1.38
443.	S01SIWQ-2-BBB-13-BBB	9.43	0.37	24.33	1.21
444.	S01SIWQ-2-BBB-20-BBB	11.39	0.34	17	1.21
445.	S01SIWQ-2-BBB-29-BBB	10.3	0.63	18.46	1.15
446.	S01SIWQ-2-BBB-31-BBB	9.91	0.5	16.69	1.19
447.	S01SIWQ-2-BBB-37-BBB	10.83	0.46	23.99	1.19
448.	S01SIWQ-2-BBB-40-BBB	11.3	0.44	21.1	1.17
449.	S01SIWQ-2-BBB-41-BBB	9.78	0.64	21.87	1.21
450.	S01SIWQ-2-BBB-43-BBB	9.53	0.47	18.25	1.14
451.	S01SIWQ-2-BBB-44-BBB	9.97	0.63	18.93	1.18
452.	S01SIWQ-2-BBB-45-BBB	9.95	0.64	20.98	1.16
453.	S01SIWQ-2-BBB-51-BBB	9	0.47	25.42	1.27
454.	S01SIWQ-2-BBB-55-BBB	9.17	0.52	23.07	1.28
455.	S01SIWQ-2-BBB-56-BBB	9.58	0.46	20.45	1.13
456.	S01SIWQ-2-BBB-65-BBB	10.78	0.6	19.59	1.08
457.	S01SIWQ-2-BBB-68-BBB	10.82	0.44	20.83	1.3
458.	S01SIWQ-2-BBB-72-BBB	8.29	0.46	16.75	1.39
459.	S01SIWQ-1-BBB-7-BBB	10.62	0.45	18.69	1.16
460.	S01SIWQ-1-BBB-26-BBB	7.86	0.48	15.35	1.28
461.	S01SIWQ-1-BBB-27-BBB	8.63	0.46	20.6	1.28
462.	S01SIWQ-1-BBB-34-BBB	9.88	0.44	19.39	1.38
463.	S01SIWQ-1-BBB-39-BBB	9.77	0.47	15.53	1.29
464.	S01SIWQ-1-BBB-40-BBB	7.79	0.76	18.01	1.28
465.	S01SIWQ-1-BBB-44-BBB	9.92	0.44	18.24	1.14
466.	S01SIWQ-1-BBB-46-BBB	9.62	0.42	18.66	1.16
467.	S991SIWQ-ET-BBB-1-BBB	8.94	0.45	21.65	1.2
468.	S991SIWQ-ET-BBB-2-BBB	8.37	0.48	17.85	1.11
469.	S991SIWQ-ET-BBB-3-BBB	8.52	0.46	16.73	1.19
470.	S991SIWQ-ET-BBB-8-BBB	9.54	0.45	19.97	1.25
471.	S991SIWQ-ET-BBB-12-BBB	8.74	0.63	19.33	1.21
472.	S991SIWQ-ET-BBB-16-BBB	8.77	0.64	20.41	1.27
473.	S991SIWQ-ET-BBB-18-BBB	7.31	0.48	20.61	1.28
474.	S991SIWQ-ET-BBB-23-BBB	9.48	0.62	25.31	1.26
475.	S991SIWQ-ET-BBB-30-BBB	9.03	0.47	19.61	1.22
476.	S991SIWQ-ET-BBB-33-BBB	8.27	0.54	21.95	1.37
477.	S991SIWQ-ET-BBB-35-BBB	10.37	0.6	21.11	1.31
478.	S991SIWQ-ET-BBB-36-BBB	9.12	0.46	24.32	1.22
479.	S991SIWQ-ET-BBB-37-BBB	8.35	0.53	27.21	1.24
480.	S991SIWQ-ET-BBB-38-BBB	9.54	0.45	22.71	1.26
481.	S991SIWQ-ET-BBB-40-BBB	9.05	0.64	23.38	1.29

482.	S991SIWQ-ET-BBB-42-BBB	8.89	0.48	23.67	1.18
483.	S991SIWQ-ET-BBB-44-BBB	10.32	0.44	18.45	1.32
484.	S991SIWQ-ET-BBB-46-BBB	10.57	0.62	24.63	1.37
485.	S991SIWQ-ET-BBB-47-BBB	7.62	0.48	25.63	1.28
486.	S991SIWQ-ET-BBB-49-BBB	8.55	0.46	24.68	1.23
487.	S991SIWQ-ET-BBB-50-BBB	10.98	0.42	19.39	1.38
488.	S991SIWQ-ET-BBB-53-BBB	8.91	0.44	22.7	1.26
489.	S991SIWQ-ET-BBB-54-BBB	8.46	0.64	19.85	1.24
490.	S991SIWQ-ET-BBB-55-BBB	10.35	0.42	26.09	1.3
491.	S991SIWQ-ET-BBB-57-BBB	9.78	0.62	21.79	1.21
492.	S991SIWQ-ET-BBB-58-BBB	9.77	0.63	32.58	1.25
493.	S991SIWQ-ET-BBB-61-BBB	8.7	0.47	23.51	1.31
494.	S01SIWQ-2-BBB-1-BBB	8.52	0.35	23.92	1.19
495.	S01SIWQ-2-BBB-5-BBB	10.49	0.32	26.96	1.22
496.	S01SIWQ-2-BBB-8-BBB	8.18	0.64	30.77	1.28
497.	S01SIWQ-2-BBB-9-BBB	10.45	0.46	25.91	1.29
498.	S01SIWQ-2-BBB-12-BBB	12.15	0.32	28.45	2.03
499.	S01SIWQ-2-BBB-14-BBB	11.47	0.34	28.16	2.01
500.	S01SIWQ-2-BBB-16-BBB	7.83	0.49	14.55	1.21
501.	S01SIWQ-2-BBB-55-BBB	11.97	0.42	32.17	1.23
502.	S01SIWQ-2-BBB-59-BBB	12.58	0.41	23.04	1.15
503.	S01SIWQ-2-BBB-61-BBB	10.81	0.44	23.02	1.28
504.	S01SIWQ-2-BBB-62-BBB	9.79	0.46	30.39	1.26
505.	S01SIWQ-2-BBB-63-BBB	9.68	0.47	28.58	1.29
506.	S01SIWQ-2-BBB-70-BBB	9.89	0.45	30.56	1.17
507.	S01SIWQ-2-BBB-74-BBB	13.78	0.33	22.73	1.26
508.	CompMod(BC0)-BBB-9-BBB	10.24	0.43	26.27	1.31
509.	CompMod(BC0)-BBB-11-BBB	9.41	0.63	24.83	1.24
510.	CompMod(BC0)-BBB-15-BBB	9.36	0.47	26.32	1.31
511.	CompMod(BC0)-BBB-18-BBB	9.88	0.46	27.81	1.26
512.	CompMod(BC0)-BBB-19-BBB	9.75	0.45	24.8	1.37
513.	CompMod(BC0)-BBB-24-BBB	8.58	0.48	21.16	1.32
514.	CompMod(BC0)-BBB-44-BBB	8.43	0.47	26.66	1.21
515.	CompMod(BC0)-BBB-45-BBB	9.36	0.53	23.41	1.3
516.	CompMod(BC0)-BBB-48-BBB	9.5	0.45	24.61	1.23
517.	CompMod(BC0)-BBB-26-BBB	10.6	0.42	24.06	1.33
518.	CompMod(BC0)-BBB-50-BBB	9.16	0.65	25.53	1.27
519.	CompMod(BC0)-BBB-51-BBB	9.93	0.63	26.27	1.19
520.	CompMod(BC0)-BBB-18-BBB	9.77	0.46	16.49	1.17
521.	su2su2o2o2Comp(Y)-BBB-18-BBB	9.77	0.64	19.74	1.23
522.	CML162-BBB	9.1	0.54	20.96	1.16

523.	CML181-BBB	10.92	0.41	20.99	1.31
524.	CML186-BBB	10.05	0.42	19.87	1.24
525.	CML491-BBB	11.1	0.4	23.11	1.28
526.	CML492-B*6	10.64	0.43	14.11	1.41
527.	CLQ-RCWQ02-B*6	9.24	0.45	20.7	1.29
528.	CLQ-RCWQ15-B*6	8.03	0.65	25.01	1.25
529.	CLQ-RCWQ19-B*6	12.81	0.4	14.3	1.19
530.	CLQ-RCWQ31-B*6	10.76	0.46	21.1	1.21
531.	CLQ-RCWQ36-B*6	9.45	0.48	20.23	1.26
532.	CLQ-RCWQ83-B*6	11.57	0.41	21.4	1.52
533.	(CML146/CML176)-B-29-1-1-2-B*7	11.09	0.6	23.96	1.19
534.	CML264Q(BC3)F2(65)-BB-10-B*7	9.8	0.46	19.91	1.24
535.	(CML384x176)F3-100-1-2-B*10	11.68	0.42	20.92	1.3
536.	(CML384x176)F3-100-1-3-4-B*9	10.89	0.62	26.12	1.18
537.	(CML384x176)F3-100-1-4-3-B*9	11.1	0.43	26.56	2.41
538.	CML114-BBB	12.97	0.4	18.9	1.18
539.	CML223-BBB	12.61	0.37	23.48	1.3
540.	CML289-BBB	13.5	0.35	13.92	1.16
541.	CML295-BBB	11.95	0.37	25.04	1.25
542.	CML298-BBB	13.2	0.34	25.91	1.29
543.	CML303-BBB	9.77	0.37	16.13	1.34
544.	CML306-BBB	10.39	0.45	37.86	1.35
545.	CML307-BBB	9.76	0.47	21.93	1.21
546.	CML326-BBB	11.38	0.35	20.34	1.27
547.	CML327-BBB	10.23	0.37	20.06	1.25
548.	CML335-BBB	10.36	0.44	21.54	1.19
549.	CML337-BBB	13.28	0.57	25.28	1.26
550.	CML338-BBB	10.7	0.42	23	1.27
551.	CML360-BBB	13.04	0.4	30.75	1.18
552.	CML411-BBB	10.61	0.42	21.75	1.35
553.	CML422-BBB	12.9	0.41	11.7	1.17
554.	CML424-BBB	11.58	0.44	18.46	1.31
555.	CML479-BBB CMLs White	13.17	0.32	20.99	1.31
556.	CML30-BBB	11.08	0.46	22.19	1.23
557.	CML44-BBB	13.3	0.41	24.56	1.22
558.	CML90-BBB	12.64	0.33	24.89	1.13
559.	CML103-BBB	11.52	0.35	29.4	1.22
560.	CML208-BBB	10.11	0.45	23.24	1.29
561.	CML111-BBB	11.24	0.34	23.95	1.33
562.	CML218-BBB	10.51	0.42	27.35	1.36

563.	CML230-BBB	11.36	0.3	30.13	1.36
564.	CML235-BBB	13.46	0.42	23.01	1.15
565.	CML237-BBB	12.08	0.44	21.16	1.32
566.	CML317-BBB	10.47	0.48	21.34	1.33
567.	CML336-BBB	11.77	0.42	22.79	1.26
568.	CML376-BBB	10.47	0.45	23.24	1.16
569.	CML334-BBB	11.73	0.41	12.42	1.03
570.	CML333-BBB	10.75	0.34	20.23	1.26
571.	S99TLWQ-HG-A-BBB-37-BBB	10.45	0.45	27.49	1.37
572.	S99TLWQ-HG-A-BBB-40-BBB	9.67	0.48	20.65	1.29
573.	S99TLWQ-HG-A-BBB-41-BBB	9.03	0.48	19.84	1.24
574.	S99TLWQ-HG-A-BBB-42-BBB	8.24	0.49	21	1.31
575.	S99TLWQ-HG-A-BBB-45-BBB	9.75	0.46	20.3	1.26
576.	S99TLWQ-HG-A-BBB-47-BBB	9.85	0.64	19.66	1.22
577.	S99TLWQ-HG-A-BBB-52-BBB	8.89	0.48	28.52	1.29
578.	S01SIWQ-2-BBB-47-BBB	8.61	0.48	24.07	1.2
579.	HighOilQPMc13-BBB-37-BBB	7.7	0.49	17.28	1.44
580.	TLWQ(H0)QPMC15-BBB-40-BBB	10.36	0.34	13.1	1.09
581.	TLWQ(H0)QPMC15-BBB-45-BBB	13.31	0.31	20.55	1.28
582.	TLWQ(H0)QPMC15-BBB-51-BBB	10.48	0.48	20.8	1.3
583.	HighOilQPMc13-BBB-6-BBB	8.68	0.46	16.17	1.15
584.	HighOilQPMc13-BBB-50-BBB	7.73	0.48	18.35	1.31
585.	HighOilQPMc13-BBB-33-BBB	9.37	0.46	16.9	1.05
586.	HighOilQPMc13-BBB-34-BBB	9.23	0.48	14.05	1.17
587.	HighOilQPMc13-BBB-71-BBB	7.26	0.37	16.01	1.33
588.	HighOilQPMc13-BBB-95-BBB	8.63	0.65	24.4	1.22

Table 1.1: Most promising lines for protein quality

S. NO.	PEDIGREE	PROTEIN (%)	TRP (%)	100KWT	SP.GR
1.	CLQ-RCYQ035-B*6	9	0.62	26.3	1.14
2.	S01SIYQ-BBB-17-BBB	9	0.64	17.27	1.15
3.	S99TLYQ-HG-AB*4-33-BBB	9	0.67	18.27	1.22
4.	G32QC12-BBB-21-BBB	9.03	0.63	26.32	1.19
5.	S991SIWQ-ET-BBB-40-BBB	9.05	0.64	23.38	1.29
6.	G25QC23-BBB-8-BBB	9.09	0.62	22.11	1.16
7.	G33QC20-BBB-15-BBB	9.09	0.62	23.09	1.10
8.	G26QC23-BBB-14-BBB	9.1	0.62	23.9	1.2
9.	P69(58969Q)-BBB-17-BBB	9.13	0.6	27.94	1.12

10.	G27QC3-BBB-22-BBB	9.13	0.63	19.33	1.2
11.	CompMod(BC0)-BBB-50-BBB	9.16	0.65	25.53	1.27
12.	S00TLYQ-HG-BBB-42-BBB	9.16	0.71	20.7	1.09
13.	S01SIYQ-BBB-13-BBB	9.17	0.62	20.67	1.22
14.	P65C6-BBB-21-BBB	9.18	0.6	19.86	1.24
15.	P66C0-BBB-36-BBB	9.2	0.62	20.7	1.22
16.	S99TLYQ-HG-AB*4-29-BBB	9.21	0.6	27.22	1.18
17.	G33QC20-BBB-20-BBB	9.22	0.64	13.95	1.07
18.	97P65-BBB-40-BBB	9.25	0.62	19	1.19
19.	G18QC8-BBB-11-BBB	9.28	0.62	19.05	1.12
20.	S01SIYQ-BBB-1-BBB	9.28	0.62	22.87	1.09
21.	(CML161/CML165)-BBB-1-BBB	9.3	0.62	24.3	1.16
22.	S87(P65Q)-BBB-33-BBB	9.31	0.68	25.1	1.03
23.	S99TLYQ-HG-AB*4-25-BBB	9.32	0.6	22.2	1.17
24.	G33QC20-BBB-31-BBB	9.33	0.6	15.5	1.19
25.	(CML161/CML165)-BBB-3-BBB	9.39	0.69	26.7	1.16
26.	P61C1-BBB-4-BBB	9.4	0.61	19.4	1.21
27.	CompMod(BC0)-BBB-11-BBB	9.41	0.63	24.83	1.24
28.	S99TLYQ-HG-AB*4-16-BBB	9.42	0.62	17.4	1.16
29.	G17QC8-BBB-5-BBB	9.42	0.63	16.6	1.19
30.	S00TLYQ-HG-BBB-35-BBB	9.42	0.65	17.38	1.24
31.	S99TLYQ-HG-AB*4-36-BBB	9.43	0.63	23.11	1.22
32.	G32QC12-BBB-3-BBB	9.44	0.64	16.35	1.16
33.	S991SIWQ-ET-BBB-23-BBB	9.48	0.62	25.31	1.26
34.	89[G25Q/MO17]-B-4-4-1-1-4-B*14	9.48	0.63	17.6	1.21
35.	P65C6-BBB-34-BBB	9.49	0.61	21	1.17
36.	S87(P65Q)-BBB-20-BBB	9.5	0.67	22.1	1.14
37.	S99TLYQ-HG-AB*4-37-BBB	9.52	0.62	13.98	1.1
38.	S87(P65Q)-BBB-13-BBB	9.52	0.62	25	1.17
39.	G25QC23-BBB-2-BBB	9.54	0.61	18.38	1.12
40.	P69(58969Q)-BBB-4-BBB	9.57	0.63	17.9	1.19
41.	P69(58969Q)-BBB-31-BBB	9.58	0.63	25.3	1.15
42.	S99SIYQ-BBB-3-BBB	9.6	0.6	21.58	1.14
43.	S99TLYQ-HG-AB*4-7-BBB	9.61	0.67	19.61	1.1
44.	S87(P65Q)-BBB-11-BBB	9.65	0.6	23	1.14
45.	S99TLYQ-HG-AB*4-8-BBB	9.65	0.69	28.13	1.22
46.	P65C6-BBB-5-BBB	9.67	0.61	20.2	1.12
47.	P69(58969Q)-BBB-24-BBB	9.67	0.7	20.2	1.06
48.	(CML161/CML165)-BBB-20-BBB	9.69	0.6	22.1	1.16
49.	G31QC2-BBB-23-BBB	9.7	0.64	11.28	1.12

50.	P65C6-BBB-9-BBB	9.74	0.63	19.2	1.2
51.	P69(58969Q)-BBB-28-BBB	9.74	0.64	23.29	1.11
52.	G31QC2-BBB-13-BBB	9.76	0.64	14.4	1.2
53.	S991SIWQ-ET-BBB-58-BBB	9.77	0.63	32.58	1.25
54.	su2su2o2o2Comp(Y)-BBB-18-BBB	9.77	0.64	19.74	1.23
55.	S99SIYQ-BBB-22-BBB	9.78	0.61	22.52	1.13
56.	S991SIWQ-ET-BBB-57-BBB	9.78	0.62	21.79	1.21
57.	S99TLYQ-HG-AB*4-22-BBB	9.78	0.64	20.5	1.08
58.	S01SIWQ-2-BBB-41-BBB	9.78	0.64	21.87	1.21
59.	P65C6-BBB-44-BBB	9.82	0.6	22.11	1.16
60.	S99TLWQ-HG-A-BBB-47-BBB	9.85	0.64	19.66	1.22
61.	S01SIYQ-BBB-21-BBB	9.87	0.61	16.69	1.11
62.	S99TLYQ-HG-AB*4-17-BBB	9.9	0.61	19.46	1.14
63.	P65C6-BBB-39-BBB	9.92	0.62	30.33	1.21
64.	P65C6-BBB-8-BBB	9.93	0.62	15.8	1.22
65.	CompMod(BC0)-BBB-51-BBB	9.93	0.63	26.27	1.19
66.	P70C0-BBB-12-BBB	9.94	0.6	19.08	1.12
67.	S01SIWQ-2-BBB-45-BBB	9.95	0.64	20.98	1.16
68.	S99SIYQ-BBB-14-BBB	9.95	0.65	25.62	1.11
69.	S01SIWQ-2-BBB-44-BBB	9.97	0.63	18.93	1.18
70.	P67C1-BBB-31-BBB	10.02	0.63	24.85	1.12
71.	89[G25Q/MO17]-B-4-4-2-2-6-B*14	10.03	0.6	24.3	1.1
72.	P65C6-BBB-23-BBB	10.03	0.66	17.5	1.17
73.	G17QC8-BBB-6-BBB	10.13	0.61	26.7	1.16
74.	89[G25Q/MO17]-B-1-4-3-2-7-B*14	10.13	0.63	20.7	1.22
75.	CML189-BBB	10.17	0.62	18.5	1.23
76.	S99SIYQ-BBB-8-BBB	10.18	0.62	18.18	1.21
77.	S01SIWQ-2-BBB-29-BBB	10.3	0.63	18.46	1.15
78.	P66C0-BBB-44-BBB	10.34	0.62	19.8	1.16
79.	G29QC2-BB-16-BBB	10.35	0.62	16.13	1.34
80.	S99SIYQ-BBB-5-BBB	10.37	0.6	26.53	1.21
81.	S991SIWQ-ET-BBB-35-BBB	10.37	0.6	21.11	1.31
82.	G32QC12-BBB-8-BBB	10.37	0.62	26.28	1.31
83.	S99TLYQ-HG-AB*4-9-BBB	10.43	0.6	20.37	1.1
84.	S99TLYQ-HG-AB*4-34-BBB	10.45	0.61	18.31	1.21
85.	S01SIYQ-BBB-7-BBB	10.5	0.61	16.06	1.24
86.	S99TLWQ-1-BBB-14-BBB	10.54	0.64	23.13	1.28
87.	S991SIWQ-ET-BBB-46-BBB	10.57	0.62	24.63	1.37
88.	G17QC8-BBB-36-BBB	10.62	0.61	15.68	1.21

89.	P65C6-BBB-14-BBB	10.62	0.63	18.36	1.15
90.	P65C6-BBB-16-BBB	10.63	0.6	20.38	1.13
91.	P61C1-BBB-43-BBB	10.7	0.61	14.11	1.18
92.	P69QC3HC7-5-2-1-B*19	10.72	0.62	27.3	1.14
93.	S91SIWQ-BBB-53-BBB	10.74	0.61	16.08	1.34
94.	P65C6-BBB-32-BBB	10.74	0.62	20.03	1.5
95.	S01SIWQ-2-BBB-65-BBB	10.78	0.6	19.59	1.08
96.	S87(P65Q)-BBB-16-BBB	10.85	0.61	13.5	1.13
97.	S91SYQ-207-1-1-3-B*10	10.86	0.64	17.9	1.19
98.	(CML161/CML165)-BBB-18-BBB	10.87	0.64	22	1.05
99.	P70C0-BBB-7-BBB	10.88	0.63	17	1.13
100.	(CML384x176)F3-100-1-3-4-B*9	10.89	0.62	26.12	1.18
101.	S87(P66Q)-BBB-7-BBB	10.94	0.6	19.6	1.15
102.	(CML161/CML165)-BBB-4-BBB	11.04	0.62	19.4	1.14
103.	G34QC24-BBB-53-BBB	11.05	0.61	22.09	1.16
104.	G31QC2-BBB-12-BBB	11.06	0.6	17.51	1.25
105.	(CML146/CML176)-B-29-1-1-2-B*7	11.09	0.6	23.96	1.19
106.	P61C1-BBB-48-BBB	11.27	0.68	16.43	1.17
107.	G33QC20-BBB-6-BBB	11.44	0.62	17.38	1.16
108.	P64C1-BBB-5-BBB	11.63	0.6	19.62	1.09
109.	S99TLWQ-1-BBB-18-BBB	11.64	0.87	20.24	1.01
110.	S99TLWQ-HG-BBB-9-BBB	11.75	0.6	24.05	1.2
111.	S99TLWQ-HG-BBB-32-BBB	11.88	0.62	17.63	1.1
112.	G24QC19-BBB-21-BBB	11.9	0.63	21.68	1.54

Protein quality and Oil content of newly introduced maize inbreds received WNC Hyderabad

From the introduction nursery a set of 21 lines (Table 2) were analyzed for oil content along with protein quality and another set of 11 lines (Table 3) were analyzed for oil content only. A total of 5 inbreds yields more than 5 per cent of oil (Table 4).

Table 2: Protein quality and Oil content of newly introduced maize inbreds received WNC Hyderabad

S. No.	PEDIGREE	PROTEIN (%)	TRP %	100 K. WT.	SP. GR	OIL (%)
1.	TLWQ(H0)QPMC15-BBB-9-BBB	10.47	0.36	17.94	1.28	4.19
2.	TLWQ(H0)QPMC15-BBB-15-BBB	13.53	0.3	23.19	1.15	4.17

3.	TLWQ(H0)QPMC15-BBB-18-BBB	13.21	0.33	21.28	2.05	4.69
4.	TLWQ(H0)QPMC15-BBB-20-BBB	13.34	0.32	22.47	1.24	4.14
5.	TLWQ(H0)QPMC15-BBB-28-BBB	12.19	0.35	25.48	1.27	3.6
6.	TLWQ(H0)QPMC15-BBB-34-BBB	10.01	0.42	20.22	1.26	3.79
7.	TLWQ(H0)QPMC15-BBB-37-BBB	13.83	0.3	20.07	1.25	3.67
8.	TLWQ(H0)QPMC15-BBB-55-BBB	13.76	0.32	20.31	1.45	5.07
9.	TLWQ(H0)QPMC15-BBB-58-BBB	10.9	0.45	16.67	1.19	3.27
10.	TLWQ(H0)QPMC15-BBB-59-BBB	8.79	0.35	14.23	1.18	3.56
11.	TLWQ(H0)QPMC15-BBB-61-BBB	10.78	0.6	14.74	1.22	3.25
12.	TLWQ(H0)QPMC15-BBB-63-BBB	9.94	0.62	9.6	1.2	3.6
13.	TLWQ(H0)QPMC15-BBB-64-BBB	9.33	0.48	21.7	1.35	5.51
14.	TempxTrop(H0)QPM-BBB-2-BBB	9.86	0.65	19.77	1.23	4.51
15.	HighOilQPMc13-BBB-16-BBB	7.89	0.48	19.2	1.2	2.59
16.	HighOilQPMc13-BBB-19-BBB	10.41	0.72	14.96	1.24	3.45
17.	HighOilQPMc13-BBB-27-BBB	7.31	0.49	18.37	1.31	3.93
18.	HighOilQPMc13-BBB-78-BBB	7.56	0.47	15.72	1.31	2.86
19.	HighOilQPMc13-BBB-90-BBB	7.25	0.48	18.16	1.29	2.91
20.	CompMod(BC0)-BBB-2-BBB	9.57	0.46	23.57	1.3	2.78
21.	CompMod(BC0)-BBB-8-BBB	10.13	0.52	26.17	1.3	2.75

Table 3: Oil content of newly introduced maize inbreds received WNC Hyderabad

S. No.	PEDIGREE	Oil (%)
1.	TempxTrop(H0)QPM-BBB-10-BBB	3.97
2.	TempxTrop(H0)QPM-BBB-11-BBB	4.52
3.	TempxTrop(H0)QPM-BBB-45-BBB	3.86
4.	TempxTrop(H0)QPM-BBB-56-BBB	4.86
5.	TempxTrop(H0)QPM-BBB-59-BBB	4.58
6.	TempxTrop(H0)QPM-BBB-60-BBB	4.83
7.	TempxTrop(H0)QPM-BBB-69-BBB	5.98
8.	TempxTrop(H0)QPM-BBB-73-BBB	5.56
9.	TempxTrop(H0)QPM-BBB-86-BBB	4.32
10.	TempxTrop(H0)QPM-BBB-87-BBB	3.59
11.	TempxTrop(H0)QPM-BBB-100-BBB	5.82

Table 4: Promising lines for oil content

S.NO.	PEDIGREE	OIL (%)
1	TLWQ(H0)QPMC15-BBB-55-BBB	5.07
2	TLWQ(H0)QPMC15-BBB-64-BBB	5.51
3	TempxTrop(H0)QPM-BBB-69-BBB	6.00
4	TempxTrop(H0)QPM-BBB-73-BBB	5.56
5	TempxTrop(H0)QPM-BBB-100-BBB	5.82

Protein quality of maize inbreds received IIMR, New Delhi

In another experiment a set of 453 inbreds received from IIMR, New Delhi was screened on the basis of kernels opaqueness and out of the 453, 247 samples were found to possess some opaqueness and therefore analyzed for protein quality. Rest of the line are normal and do not possess any opaqueness. It was again recommended that only fixed lines should be analyzed for protein quality to avoid the loss of precious resources. From the selected lines, out crossed as well as non uniform kernels were discarded. The endosperm was separated, defatted and processed for protein quality. Germplasm having threshold concentrations of protein quantity (\geq 9% protein) along with quality (\geq 0.6 % tryptophan in the endosperm protein) was selected and identified as promising QPM material. The range of protein was 6.00 to 13.27 per cent with lowest and highest values being exhibited by the DQL-621-12-4 and DQL-771-8-3, respectively. The range of tryptophan was 0.34 {DQL-590-1-1} to 0.99 {DQL-593-2-4} per cent (Table 5). A total of 30 lines were found to possess the required concentrations of protein quality (Table 5.1)

Table 5: Protein quality of maize inbreds received IIMR, New Delhi

S. NO	PEDIGREE	PROTEIN (%)	TRY (%)	100 KWT	SP. GR
1	DQL 502-17-1	11.02	0.42	25.3	1.4
2	DQL 504-6-1	9.27	0.47	23.3	1.66
3	DQL 505-3(y)-1	9.66	0.75	35.7	1.19
4	DQL 505-4(y)-2	8.02	0.62	17.8	0.98
5	DQL 505-1(3)	10.52	0.45	22.1	1.16
6	DQL 506-3(2)	9.38	0.47	19.2	1.06
7	DQL 506-4-1	9.57	0.44	17.9	1.27
8	DQL 506-8-3	9.82	0.63	17.3	0.86
9	DQL 506-12-3	10.42	0.46	29.8	1.24
10	DQL 565(U)-1-1	12.46	0.61	23.6	1.18
11	DQL 565(U)-3-1	7.58	0.71	20.6	1.14
12	DQL 565(U)-4-3(0)	9.3	0.64	25.6	1.16
13	DQL 565(U)-5-1(0)	10.37	0.62	34.8	1.2
14	DQL 565(U)-5-2(0)	9.85	0.53	24.9	1.18

15	DQL 565(U)-6-2(0)	8.87	0.77	32.3	1.11
16	DQL 598(y/c)-1-1	8.89	0.52	23.1	1.15
17	DQL 592(u)-1-4	8.73	0.94	21.4	1.07
18	DQL (600)-1-5	7.88	0.5	24.9	1.24
19	DQL (600)-1-7	10.79	0.47	24.8	1.24
20	DQL (626)-2-1	9.77	0.48	29.7	1.23
21	DQL (626)-1-1	8.54	0.93	21.9	1.09
22	DQL (641)-4-4	8.79	0.5	24.4	1.22
23	DQL (641)-6-5	11.42	0.5	33.5	1.19
24	DQL (644)-4-5	7.58	0.81	18.3	1.09
25	DQL (644)-4-6	12.77	0.73	22	1.1
26	DQL (653)-3-6	12.51	0.43	27.7	1.38
27	DQL (654)-2-5	10.44	0.5	23	1.25
28	DQL (659)(o)-1-1	10.82	0.49	29	1.38
29	DQL (659)-4-2	11.06	0.95	25	1.19
30	DQL (659)-4-9	9.08	0.53	20.3	1.01
31	DQL (659)-4-12	8.57	0.94	24.3	1.2
32	DQL (660)-1-2	9.69	0.9	19.77	1.09
33	DQL 678-5-2	8	0.62	25.14	1.14
34	DQL 685-13-1	8.37	0.6	26.2	0.84
35	DQL 685-13-11	11.32	0.48	17.56	0.7
36	DQL 685-18-2	7.77	0.53	19.45	0.92
37	DQL 689-1-1	10.48	0.82	22.1	1.01
38	DQL 690(0)-2-8	10.04	0.76	22.53	1.12
39	DQL 716-(Y)-5	7.6	0.51	20.4	1.07
40	DQL 720-4-3	8.07	0.5	22.3	1.06
41	DQL 720-5-3	9.06	0.48	27.7	1.15
42	DQL 720-7-10	9.95	0.46	22.23	1.11
43	DQL 720-10-2	9.84	0.44	23.5	1.17
44	DQL 721-3-1	8.03	0.91	28.49	1.18
45	DQL 747-3-2	7.22	0.97	19.27	0.96
46	DQL 747-3-4	7.95	0.48	20.5	1.13
47	DQL 769-1-3	10.33	0.53	19.93	1.05
48	DQL 769-1-4	10.05	0.49	26.14	1.18
49	DQL-769-1-5	8.47	0.49	21.32	1.06
50	DQL-769-20-1	8.03	0.47	22.6	1.18
51	DQL-769-22-1	9.64	0.47	26.14	1.18
52	DQL-770-9	9.09	0.47	21.62	1.13
53	DQL-770-3-5	7.97	0.55	15.73	1.31
54	DQL-771-8-3	13.27	0.49	28.36	1.28
55	DQL-771-8-6	12.46	0.47	25.59	1.27

56	DQL-771-8-12	9.34	0.47	19.85	1.1
57	DQL-771-9-4	9.87	0.49	24.05	1.2
58	DQL-772-1-3	8.73	0.46	21.45	1.07
59	DQL-772-1-4	10.05	0.48	23.6	1.12
60	DQL-772-2-3	11.61	0.48	27.25	0.97
61	DQL-773-1-2	10.3	0.57	25.3	1.26
62	DQL-774-5-3	10.42	0.47	21.37	1.18
63	DQL-774-6-1	10	0.48	20.99	1.16
64	DQL-774-17-1	9.34	0.49	22.04	1.1
65	DQL-774-17-1(LE)	12.57	0.46	23.57	1.24
66	DQL-774-17-2	11.42	0.46	17.34	1.24
67	DQL-774-18-1	9.51	0.47	21.57	1.13
68	DQL-778-1-3	8.03	0.51	28.04	1.17
69	DQL-779-4	7.47	0.62	25.7	1.22
70	DQL-779-5	8.36	0.53	28.48	1.29
71	DQL-779-6	10.08	0.48	30.42	1.27
72	DQL-779-2-3	11.39	0.48	29.93	1.36
73	DQL-779-2-9	7.74	0.52	21.12	1.06
74	DQL-779-13-5	11.79	0.64	22.66	0.99
75	DQL-779-15-2	8.84	0.51	26.62	1.27
76	DQL-781-1-6	11.01	0.49	24.18	1.34
77	DQL-782(SEGDENT)6-1	8.45	0.48	28.33	1.29
78	DQL-782(SEGDENT)6-2	8.23	0.49	28.94	1.32
79	DQL-783-31-1	9.06	0.7	28.15	1.17
80	DQL-783-31-15	8.6	0.52	30.94	1.29
81	DQL-784-2-1	11.44	0.6	26.92	1.22
82	DQL-784-4-1	9.25	0.48	22.39	1.24
83	DQL-784-1-3	9.63	0.61	19.75	1.23
84	DQL-784-5-1	10.13	0.51	26.82	1.34
85	DQL-784-5-3	11.15	0.49	30.26	1.36
86	DQL-785-1-1	10.37	0.51	18.42	1.15
87	DQL-785-1-10	10.44	0.48	31.94	1.23
88	DQL-785-2-5	8.04	0.52	18.89	1.35
89	DQL-785-2-6	10.47	0.49	19.51	1.3
90	DQL-785-6-4	8.13	0.74	27.57	1.51
91	DQL-785 (Y flint)-2-4	8.82	0.61	25.79	1.17
92	DQL-785-(Y flint)-2-7	10.5	0.49	16.94	1.41
93	DQL-785-2-4	10.31	0.64	27.22	1.24
94	DQL-786-3-4	10.24	0.5	18.52	1.32
95	DQL-787-6-4	7.67	0.54	19.67	1.4
96	DQL-787-6-10	7.66	0.73	18.21	1.3

97	DQL-787-6-1	10.55	0.63	25.5	1.27
98	DQL-788-2-4	11.06	0.47	18.96	1.18
99	DQL-788-2-10	9.85	0.42	22.89	1.2
100	DQL-788-10-3	11.35	0.46	28.88	1.31
101	DQL-790-2-2	11.48	0.48	25.76	1.28
102	DQL-790-2-4	11.57	0.48	18.28	1.3
103	DQL-574-7-1	9.75	0.41	28.3	1.41
104	DQL-575-2-1	8.84	0.49	24.79	1.23
105	DQL-577-4-2	10.37	0.42	24.79	1.23
106	DQL-590-1-1	9.85	0.34	25.48	1.27
107	DQL-593-2-4	9.17	0.99	14.12	1.41
108	DQL-593-10-2	11.39	0.45	18.72	1.33
109	DQL-596-2-1-1	9.54	0.9	18.89	0.99
110	DQL-596-2-1-3	9.32	0.95	21.12	1.05
111	DQL-598-1-2	10.73	0.74	10.19	1.27
112	DQL-602-1	9.45	0.45	29	1.45
113	DQL-602-2-2	11.27	0.41	14.99	1.24
114	DQL-602-5-1	10.12	0.4	29.56	1.33
115	DQL-602-7-2	10.21	0.77	24.23	1.21
116	DQL-602-7-3	9.63	0.5	29.75	1.06
117	DQL-602-10-6	9.46	0.46	30.93	1.28
118	DQL-602-13-2	9.72	0.49	24.85	1.3
119	DQL-602-4-1	8.08	0.45	28.66	1.3
120	DQL-606-1-1	7.86	0.46	22.05	1.22
121	DQL-608-3-5	8.23	0.46	18.71	1.55
122	DQL-609-2-1	9.79	0.49	26.1	1.3
123	DQL-613-3-3	8.88	0.5	27.16	1.23
124	DQL-613-4-1	9.28	0.53	17.47	1.58
125	DQL-614-2-3	9.36	0.53	25.97	1.23
126	DQL-614-3-2	7.27	0.97	19.72	1.09
127	DQL-614-5-4	8.73	0.46	23.86	1.32
128	DQL-619-5-5	9.98	0.86	33.7	1.2
129	DQL-620-2-1	7.11	0.74	25.94	1.17
130	DQL-621-4-2	7.01	0.78	30.28	1.37
131	DQL-621-9-1	8.51	0.47	27.14	1.35
132	DQL-621-9-7	8.12	0.96	30.99	1.03
133	DQL-621-12-4	6	0.79	29.64	1.23
134	DQL-621-16-5	7.11	0.47	19.96	1.24
135	DQL-623-5-8	7.05	0.43	26.1	1.24
136	DQL-630-3-3	10.04	0.65	16.65	1.38
137	DQL-633-1-1	10.34	0.47	19.82	1.32

139	DQL-633-1-7	11.35	0.42	19.7	1.31
140	DQL-634-1-4	8.57	0.43	25.2	1.06
141	DQL-609-2-1	7.8	0.44	21.78	1.21
142	DQL-609-5-1	7.09	0.47	23.86	1.32
143	DQL-609-10-3	7.59	0.41	25.74	1.35
144	DQL-609-10-4	7.46	0.44	21.55	1.34
145	DQL-609-20-3	8.3	0.4	22.26	1.39
146	DQL-12-3-1	8.3	0.46	21.56	1.18
147	DQL-13-1-1	9.61	0.46	20.39	1.07
148	DQL-13-2-2	11.36	0.49	23.48	1.3
149	DQL-18-2-1	9.07	0.47	17.46	1.45
150	DQL-74-1-1	8.3	0.77	28.92	1.31
151	DQL-74-1-1(B)	7	0.42	19.15	1.06
152	DQL-74-1-2	8.73	0.49	37.12	1.23
153	DQL-101-2-1	7	0.62	25.68	1.28
154	DQL-131-1-3	10.33	0.63	22.33	1.24
155	DQL-142-4-4	10.42	0.61	24.95	1.24
156	DQL-142-4-6	9.35	0.62	25.07	1.25
157	DQL-142-4-8	8.65	0.61	18.1	1.5
158	DQL-146-9	9.37	0.62	21.5	1.34
159	DQL-146-9-B	7.07	0.74	15.56	1.29
160	DQL-146-10	11.79	0.61	21.3	1.25
161	DQL-146-12	8.38	0.63	21.22	1.23
162	DQL-166-1-2	8.29	0.48	22.98	1.27
163	DQL-169-1-2A	8.91	0.47	24.38	1.35
164	DQL-169-1-2B	7.15	0.65	17.79	1.36
165	DQL-185-1-1	9.19	0.47	17.29	1.44
166	DQL-185-1-3	10.17	0.46	25.37	1.4
167	DQL-197-1-5	8.19	0.72	12.88	1.77
168	DQL-205-1-1	9.1	0.45	20.93	1.39
169	DQL-209-1-1	10.08	0.4	20.77	1.29
170	DQL-213-1-2	8.08	0.48	17.49	1.24
171	DQL-218-1-1	7.08	0.45	23.45	1.3
172	DQL-234-2-1	8.16	0.41	18.67	1.33
173	DQL-236-1-1	7.74	0.62	19.35	1.38
174	DQL-247-1-1	9.17	0.49	26.06	1.3
175	DQL-248-1-1	8.77	0.47	20.51	1.46
176	DQL-634-3-2	11.57	0.42	25.57	1.27
177	DQL-635-1-1	7.11	0.4	21.5	1.13
178	DQL-635-3-1	8.72	0.41	21.88	1.15
179	DQL-638-4-3	10.22	0.41	26.97	1.34

180	DQL-645-2-1	8.12	0.4	28.07	1.27
181	DQL-645-2-3	10.41	0.42	30.97	1.41
182	DQL-646-2-1	11.57	0.42	25.28	1.26
183	DQL-653-1-2	10.7	0.44	20.04	1.11
184	DQL-653-2-1	12.55	0.47	17.01	1.42
185	DQL-653-2-2	11.5	0.44	27.22	1.36
186	DQL-659-1-2	7.96	0.44	31.79	1.32
187	DQL-662-2-2	10.14	0.51	28.92	1.31
188	DQL-662-2-5	10.14	0.46	21.58	1.13
189	DQL-662-3-3	8.44	0.42	25.09	1.25
190	DQL-669-13-3	9.64	0.47	23.92	1.25
191	DQL-676-4-2	10.31	0.41	30.28	1.37
192	DQL-676-4-5	7.25	0.49	18.1	1.29
193	DQL-676-9-1	8.83	0.48	29.2	1.21
194	DQL-676-9-2	10.49	0.42	24.15	1.2
195	DQL-676-11-3	9.66	0.4	30.93	1.28
196	DQL-676-14-1	7.73	0.63	13.02	1.08
197	DQL-676-14-3	9.76	0.62	29.05	1.21
198	DQL-683-11-1	11.46	0.44	25.94	1.29
199	DQL-683-12-1	10.11	0.41	24.89	1.24
200	DQL-683-18-1	9.89	0.43	28.74	1.19
201	DQL-687-5-2	9.15	0.4	22.19	1.23
202	DQL-687-5-4	8.42	0.47	15.56	1.11
203	DQL-690-8-4	9.85	0.48	26.65	1.21
204	DQL-698-2-4	8.37	0.66	18.3	1.14
205	DQL-702-1-1	9.84	0.48	19.33	1.07
206	DQL-708-8-1	7.7	0.42	24.42	1.35
207	DQL-717-4-1	8.8	0.44	19.82	1.23
208	DQL-765-1-4	8.99	0.4	18.27	1.14
209	DQL-769-6-2	8.53	0.45	20.83	1.15
210	DQL-769-6-3	8.65	0.46	17.51	1.09
211	CLQRCY-12-1	8.34	0.66	21.47	1.13
212	DQL-258-1-1	9.33	0.59	24.72	1.23
213	DQL-266-1-1	8.02	0.53	27.57	1.37
214	DQL-267-1-2	8.45	0.54	16.91	1.53
215	DQL-273-2-1	10.41	0.5	19.31	1.37
216	DQL-291-1-1	7.38	0.76	21.53	1.07
217	DQL-291-1-4	7.23	0.77	22.28	1.23
218	DQL-295-1-1	8.46	0.54	18.07	1.5
219	DQL-297-1-1	7.01	0.61	16.37	1.36
220	DQL-297-1-3	7.37	0.63	21.65	1.13

221	DQL-299-1-1	7.46	0.54	25.57	1.34
222	DQL-299-1-4	7.01	0.51	22.3	1.06
223	DQL-305-1-1	9.12	0.57	25,44	1.15
224	DQL-305-1-2	8.59	0.63	18.65	1.33
225	DQL-318-1-3	8.41	0.48	17.88	1.49
226	DQL-321-1-1	7.55	0.63	16.81	1.4
227	DQL-341-1-1	8.75	0.51	20.05	1.11
228	DQL-343-1-1	10.49	0.51	22.69	1.26
229	DQL-364-1-4	7.47	0.47	18.25	1.01
230	DQL-379-1-1A	7.44	0.5	29.79	1.06
231	DQL-379-1-1B	7.97	0.48	27.19	1.23
232	DQL-382-1-1	8.59	0.55	21.86	1.56
233	DQL-382-1-3	8.39	0.52	26.98	1.22
234	DQL-382-1-4	7.51	0.55	18.95	1.57
235	DQL-383-1-3	10.34	0.47	30.13	1.36
236	DQL-384-1-1	9.16	0.51	26.29	1.31
237	DQL-390-1-1	8.32	0.49	24.51	1.29
238	DQL-390-1-2	9.75	0.48	21.77	1.2
239	DQL-393-1-3	8.26	0.5	21.81	1.77
240	DQL-393-1-4	10.48	0.48	22.2	1.51
241	DQL-394-1-1	8.57	0.74	27.43	1.24
242	DQL-396-1-2A	9.17	0.47	24.05	1.26
243	DQL-396-1-2B	9.14	0.49	28.6	1.3
244	DQL-385-1-1	10.74	0.47	32.49	1.16
245	HKI 164-7-6 X HKI	10.06	0.76	19.42	1.38
246	DQL-405-1-1	7.94	0.49	17.96	1.79
247	KH-2014-1	11.8	0.44	30.04	1.36

Table 5.1: Most promising lines for protein quality

S. NO	PEDIGREE	PROTEIN (%)	TRY (%)	100 KWT	SP. GR
1.	DQL-783-31-1	9.06	0.7	28.15	1.17
2.	DQL-593-2-4	9.17	0.99	14.12	1.41
3.	DQL 565(U)-4-3(0)	9.3	0.64	25.6	1.16
4.	DQL-596-2-1-3	9.32	0.95	21.12	1.05
5.	DQL-142-4-6	9.35	0.62	25.07	1.25
6.	DQL-146-9	9.37	0.62	21.5	1.34
7.	DQL-596-2-1-1	9.54	0.9	18.89	0.99
8.	DQL-784-1-3	9.63	0.61	19.75	1.23
9.	DQL 505-3(y)-1	9.66	0.75	35.7	1.19

10.	DQL (660)-1-2	9.69	0.9	19.77	1.09
11.	DQL-676-14-3	9.76	0.62	29.05	1.21
12.	DQL 506-8-3	9.82	0.63	17.3	0.86
13.	DQL-619-5-5	9.98	0.86	33.7	1.2
14.	DQL-630-3-3	10.04	0.65	16.65	1.38
15.	DQL 690(0)-2-8	10.04	0.76	22.53	1.12
16.	HKI 164-7-6 X HKI	10.06	0.76	19.42	1.38
17.	DQL-602-7-2	10.21	0.77	24.23	1.21
18.	DQL-785-2-4	10.31	0.64	27.22	1.24
19.	DQL-131-1-3	10.33	0.63	22.33	1.24
20.	DQL 565(U)-5-1(0)	10.37	0.62	34.8	1.2
21.	DQL-142-4-4	10.42	0.61	24.95	1.24
22.	DQL 689-1-1	10.48	0.82	22.1	1.01
23.	DQL-787-6-1	10.55	0.63	25.5	1.27
24.	DQL-598-1-2	10.73	0.74	10.19	1.27
25.	DQL (659)-4-2	11.06	0.95	25	1.19
26.	DQL-784-2-1	11.44	0.6	26.92	1.22
27.	DQL-146-10	11.79	0.61	21.3	1.25
28.	DQL-779-13-5	11.79	0.64	22.66	0.99
29.	DQL 565(U)-1-1	12.46	0.61	23.6	1.18
30.	DQL (644)-4-6	12.77	0.73	22	1.1

Nutritional profile of elite maize inbreds

In another set of experiment a panel of 35 elite maize inbreds is analyzed for protein, starch, tryptophan and lysine content. Starch and protein are analyzed in the whole kernel, whereas, only endosperm protein is measured in the samples analyzed for protein quality. A total of 8 lines showed higher starch content (>70%) for the consecutive two years, whereas 2 lines are identified as high protein ($\geq 13\%$). The complete data is presented in the Table 6

Table 6: Nutritional profile of elite maize inbreds

S. No	PEDIGREE	STARCH (%)	PROTEIN (%)	TRP (%)	LYS (%)
1	DML-1	68.99	12.17	---	---
2	DML-6	66.91	12.12	---	---
3	DML-16-B	66.40	10.96	---	---
4	DML-37-A	68.35	12.74	---	---
5	DML-60-A	70.55	11.31	---	---
6	DML-62	69.23	12.47	---	---
7	DML-92	74.67	11.66	---	---
8	DML-106	69.14	11.78	---	---
9	DML-116-A	69.20	9.71	---	---

10	DML-117-A	67.20	12.15	---	---
11	DML-154-A	69.31	12.51	---	---
12	DML-162	66.94	12.91	---	---
13	DML-187	69.11	12.25	---	---
14	DML-212-A	67.40	11.5	---	---
15	DML-216-A	67.57	11.54	---	---
16	DML-223	69.57	11.76	---	---
17	DML-227	66.51	12.27	---	---
18	DML-269A	71.23	10.06	0.37	1.73
19	DML-281	66.19	13.24	0.29	1.59
20	DML-298-A	68.72	12.17	0.40	1.63
21	DML-300	66.91	12.35	0.45	1.77
22	DML-301	67.85	13.09	0.41	1.54
23	DML-310-A	70.91	9.9	0.31	1.50
24	DML-339	68.34	11.66	0.37	1.90
25	DPCL-102	68.32	11.08	0.41	1.81
26	DPCL-106-A	74.06	9.86	0.45	1.98
27	DQL-1001	68.66	12.27	0.51	2.22
28	DQL-1005	67.34	11.75	0.63	2.73
29	DQL-1017-A	71.40	11.19	0.67	2.90
30	DQL-1017-B	66.87	11.31	0.60	2.69
31	DQL-1019	68.94	10.71	0.55	2.31
32	DQL-1022	71.63	8.92	0.71	3.10
33	CML-292-B	71.21	10.65	---	---
34	JP-8	70.28	11.32	---	---
35	BML-6-C	68.30	11.05	---	---

Biochemical characterization of maize samples received from AAU, Anand

As required the samples received from Anand Agricultural University, Anand are evaluated for protein, oil and starch and the data is presented in Table 7. None of the genotypes was found to be exceptionally superior in terms of nutritional quality.

Table 7: Biochemical characterization of maize samples received from AAU, Anand

S. No.	Genotypes	Protein (%)	Oil (%)	Starch (%)
1	IH-1216	11.13	4.6	69.72
2	IH-1257	12.12	4.07	69.3
3	IH-1103	10.42	4.24	69.06
4	IH-1005	11.05	3.95	70.18
5	IH-0965	11.39	4.2	69.94
6	IH-1214	11.25	3.96	69.53

7	IH-1001	11.89	4.63	69.07
8	IHQ-0906	11.94	5.08	68.78
9	IC-0911	11.15	4.34	69.96
10	IC-0301	10.89	4.6	69.71
11	IH-0461	11.28	3.64	70.52
12	IH-0503	10.2	4.36	69.71
13	GM-6	11.08	4.05	70.15
14	GM-3	9.82	3.92	68.89
15	HQPM-1	10.3	4.4	69.13

Nutritional Quality and Value Addition in Maize

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Nutritional quality and value addition in maize

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Nutritional quality and value addition in maize

The work on specialty maize quality assessment, value addition in baby corn and its preservation along with value added maize product response of consumers was undertaken at Mandya centre while maize flour soya blend and biscuits along with maize processing for higher quality was undertaken at Dholi centre during 2014-15. The salient findings are presented below in this section.

Quality in specialty maize

Pop corn: Among the genotypes tested, **DMR 715** was good in terms of popping per cent age (100) and popped volume (9.367g/ml) followed by **DMR712** and **DMR711** with 97.66 and 96.00 popping per cent respectively.

Sweet corn: Under sweet corn trials the genotype **DMR 734** had significantly more total soluble solids (TSS) (**22.33**⁰ brix,) with **22.52** per cent total sugar followed by DMR 745 which had a TSS content of **17.33**⁰ brix with a total sugar content of **19.74** percent.

Baby corn: Among the genotypes tested **DMR 757** had the highest beta carotene content of 611 µg, with an ascorbic acid and TSS content of 7.11 mg and 6.20 brix respectively, followed by genotype **DMR 755** which contained β carotene, vitamin c and TSS⁰ of 595 µg, 7.33 mg and 6.2 brix respectively.

Value addition

Baby corn candy: The nutritional composition of the baby corn candy showed that it was good in terms of crude fibre (1.95), protein (1.93 g), energy (359 Kcal), calcium (24 mg) magnesium (85.33 mg), phosphorus (64.3 mg) and Iron (0.23mg). Out of 8 different treatments best two candies were selected based on sensory scores. Two treatments Whole candy (40⁰:50⁰:60⁰ B) and Rectangular candy (40⁰:50⁰:60⁰ B) were scored above 7.0 out of 9.0 on a 9 point Hedonic scale (ranking test). Best two candies were packed in two packaging materials (LDPE and MPP (Metalized Polyester Polyethylene laminated pouches) and stored at ambient conditions to study the shelf life. Rectangular MPP packed candies scores highest organoleptic scores with an overall acceptability score of 4.1 on a 5 point hedonic scale, followed by whole candies (3.8). Hence MPP pouches were taken for further experiments.

Two types of candies (Rectangular candy, Whole candy) were stored in three months in MPP pouches. There was significant difference in pH, moisture, and ash contents of candies stored in MPP pouches. While the TSS and titrable acidity changes were non-significant in two types of candies, indicating that both the types of candies were acceptable in MPP pouches throughout the storage period of three months as indicated by sensory scores. Further the results were supported well by the microbial studies indicating that there were no mould or fungal colonies throughout the storage period except few bacterial colonies noticed after two months and there were found to be gram negative.

Baby corn murraba: Among two different treatments of sugar preservation T₂ (with daily addition of sugar with TSS of 60⁰ brix) yielded good product. Whereas, T₁ (without daily addition of sugar) spoiled after 10 days of storage and it could not even retained the shape.

Preservation of baby corn

A. Brine solution: Under brine method of preservation, among four different treatments 8% salt solution with 4 minute blanching + 0.75% citric acid kept baby corn well beyond four months of storage. Whereas, 8% salt solution with blanching +1% acetic acid could able to keep well up to three months, while other treatments not cross two months.

B. Dry salt: Under dry salting method of preservation, among two different treatments 15% Salt +1% citric acid + 1% KMS with 4 minute hot water blanching was kept baby corn well up to three months of storage. Whereas 15% Salt + 0.5% citric acid + 0.5% KMS with 4 minute hot water blanching could able to kept well up to two months of storage only.

C. Dehydration: Under dehydration method of preservation, among the different treatments Baby corn + 6% KMS solution yielded the better product with good keeping quality of more than three months with a rehydration ratio of 1:2.8 compare to other treatments in terms of appearance, colour, taste, texture and overall acceptability.

Consumer acceptability of value added products: Around 250 people including male (71.6%) and female (28.4%) were randomly interviewed to elicit the information on acceptability of maize kesari bath during V.C.Farm Krishi mela 2014. Majority of the people interviewed identified the kesari bath as prepared from wheat suji (42%). Majority of the people liked the colour (66.8%) and taste (70.4%) of the product. Over 46% rated the product as good followed by very good (30%), average (19.2%) and not good (4.4%).

Improving nutritional quality of maize

Corn-soya blend/biscuit for supplementary nutrition: To prepare a ready to use food product from maize along with soybean to support the nutrition assistance programme this project was undertaken. The corn-soya blend has been developed. This is a product which can be taken just after mixing it in hot water or milk. The product is suitable for children and women especially in case of malnutrition. To prepare a high energy biscuit from maize along with soybean to provide energy and protein to school going children. The high energy corn-soya biscuit from maize has been developed.

Processing methods for quality maize flour: The most common form of consumption of maize is flour which is generally prepared by drying or roasting the maize grains followed by milling. But, which processing method will be suitable for the preparation of safe and nutritious flour, is not known to us. Keeping this in view, the investigation was planned to observe the effect of different processing methods on the quality of maize grains and thereby on flour. The processing methods applied for the maize grains were drying, roasting, boiling and alkali treatment. Further, the maize grains and flour with or without processing treatment were analysed for different quality parameters at varying period of storage. As well, these were tested for the detection and determination of aflatoxin contamination.

Freshly harvested maize grains taken as 'control' sample was found to have 13.06 percent moisture, 3.23 percent fat, 1.14 percent ash, 3.87 percent fibre, 10.83 percent protein and 67.87 percent carbohydrate. In maize grains, the changes in protein content were not significant after processing except boiling. On the contrary, the carbohydrate content increased after processing. The ash content reduced significantly after roasting and alkali treatment whereas fibre content reduced in roasted maize samples. The fat content increased significantly after boiling and roasting. Since the maize grains selected were free from aflatoxin contamination, none of the samples (either control or processed) showed the presence of aflatoxin at 0 month of storage. Till 4 months of storage none of the samples either grains or flour showed fluorescence under ultraviolet light by BGY Fluorescence test.

But after soaking in petridish, the samples from control, boiled, roasted and alkali treated showed the presence of fungus. All the seventeen kernels (100%) from control maize samples got infested by fungi. Among the processed maize grain samples the maximum fungal contamination was found in roasted maize kernels followed by boiled maize kernels (70.58%) and alkali treated maize kernels (64.70%). When these soaked kernels after

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getting contaminated with fungus were observed for BGY fluorescence under ultraviolet light, only the samples from control and roasted kernels shows the presence of aflatoxin. In control maize grain kernels out of the total seventeen kernels only 5 (29.42%) kernels were detected for the presence of aflatoxin. In roasted maize grain kernels out of the total seventeen kernels only 3 (17.64%) kernels showed the presence of aflatoxin. None of the kernels from boiled and alkali treated samples even after getting contaminated with fungus showed the presence of aflatoxin.

At 4 months of storage, the processed maize grains and flour were found prone to bacterial contamination under dilution techniques and not to the fungal one. Therefore if the processed flour are kept away from the moisture attack then it can be made free even from the bacterial contamination. The control flour was observed to be contaminated with bacteria and fungi both. In case of grains, boiling and alkali treatment are the best processing methods to make the maize grains free from fungal contamination and thereby the presence of aflatoxin. It is recommended to use the maize grains after boiling or the application of alkali treatment to avoid aflatoxin and fungal contamination in order to provide safe and wholesome food.

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Table 1. Assessment of popping quality in popcorn at Mandya.

S. No.	Genotype	Popped mass(g)	Popping %	Popped density(g/ml)	Popped volume (ml/g)	Moisture%
1	DMR711	12.66	96.00	0.153	6.98	14.16
2	DMR712	13.33	97.66	0.130	7.33	12.43
3	DMR713	16.00	83.00	0.373	2.76	12.73
4	DMR714	19.00	84.00	0.120	2.80	12.53
5	DMR715	21.00	100.00	0.190	9.36	13.66
6	DMR716	19.00	93.33	0.160	4.76	12.00
7	DMR717	14.66	91.66	0.153	6.10	11.86
8	DMR718	17.66	92.33	0.153	6.90	12.43
9	DMR719	16.66	92.66	0.313	3.12	12.00
Mean		16.667	92.74	0.194	5.46	12.42

Popping Characteristics	F Value			
	Between replications	Between genotypes	SEm±	CD @ 5%
Popped mass	0.32 ^{NS}	16.63**	0.684	2.049
Popping %	0.73 ^{NS}	29.43**	1.134	3.398
Popped density	0.10 ^{NS}	91.30**	0.009	0.028
Popped volume	0.86 ^{NS}	626.16**	0.091	0.274
Moisture	3.60 ^{NS}	5.92**	0.304	0.912

Table 2. Assessment of Total Soluble Solids (Tss⁰Brix), reducing and non reducing sugar content in Sweet Corn at Mandya

Sl.no	DMR code	Tss ⁰ Brix	Reducing sugar (%)	Non reducing sugar (%)	Total sugar (%)
1	DMR 731	14.66	3.16	11.397	14.63
2	DMR 732	17.00	3.26	12.260	15.53
3	DMR 733	16.00	2.80	11.440	14.23
4	DMR 734	22.33	3.71	18.833	22.52
5	DMR 735	15.00	2.36	13.670	16.10
6	DMR 736	13.33	3.41	13.203	16.56
7	DMR 737	14.33	3.43	12.280	15.66
8	DMR 738	14.33	2.80	13.623	16.66
9	DMR 739	13.66	2.60	14.243	16.82
10	DMR 740	14.66	2.86	13.833	16.70
11	DMR 741	14.00	2.88	12.653	15.53
12	DMR 742	15.00	2.66	11.460	14.20
13	DMR 743	14.00	2.76	14.833	17.60
14	DMR 744	16.00	3.03	15.467	18.53
15	DMR 745	17.33	3.50	16.277	19.74
Mean		15.444	3.01	13.698	16.828
F Value					

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	Between replications	Between genotypes	SEm±	CD at 5%
Total soluble solids (TSS)	2.62 ^{NS}	18.22 ^{**}	0.524	1.517
Reducing sugar	0.10 ^{NS}	34.29 ^{**}	0.065	0.190
Non reducing sugar	1.33 ^{NS}	102.53 ^{**}	0.065	0.187
Total sugar	0.24 ^{NS}	226.32 ^{**}	0.149	0.431

Table 3. Estimation of Vitamin C, total soluble solids and β carotene content in fresh baby corn at Mandya

Sl.no	DMR code	Tss° Brix	Vitamin c (mg/100g)	β Carotene(μ g/100g)	
1	DMR 751	6.167	7.400	575.84	
2	DMR 752	5.200	8.260	590.82	
3	DMR 753	6.467	7.260	541.43	
4	DMR 754	6.267	7.880	491.80	
5	DMR 755	6.233	7.333	595.72	
6	DMR 756	6.033	7.207	560.61	
7	DMR 757	6.200	7.197	611.71	
8	DMR 758	5.967	7.257	595.73	
Mean		6.067	7.474	570.46	
F Value					
		Between replications	Between genotypes	SEm±	CD at 5%
Total soluble solids (TSS)		0.58 ^{NS}	19.44 ^{**}	0.086	0.262
VITAMIN C		0.22 ^{NS}	109.97 ^{**}	0.037	0.112
β carotene		1.75 ^{NS}	1582.0 ^{**}	0.309	0.936

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Table 4. Studies on baby corn value addition at Mandya.

A. Baby corn candy (sugar preservation) preparation at Mandya

Table 4.1. Initial organoleptic scores of baby corn candy samples for various sensory attributes.

Treatment s	Quality Parameters				
	Colour	Appearance	Taste (Aroma & Sweetness)	Texture	Overall acceptability
T ₁	4.0	4.1	2.7	3	3
T ₂	3.8	3	2.7	2.8	2.7
T ₃	4.9	4.7	4.5	4.5	4.1
T ₄	4.6	5	3.9	3.9	3.7
T₅	7.25	6.8	6.7	6.8	7
T₆	8.25	8.3	8.5	8.3	8.2
T ₇	6.08	6.25	5	5	4.8
T ₈	5.5	5.6	4.5	4.4	4.7
Mean	5.5	5.51	4.8	4.8	4.8
F-Value	18.22*	22.52*	23.49*	22.62*	35.34*
SEm±	0.36	0.34	0.4	0.39	0.32
CD at 5%	1.08	0.97	1.13	1.11	0.91

Treatment details:

T₁ : Whole baby corn (20⁰:30⁰:40⁰B)

T₂ : Rectangular baby corn (20⁰:30⁰:40⁰B)

T₃ : Whole baby corn (30⁰:40⁰:50⁰B)

T₄ : Rectangular baby corn (30⁰:40⁰:50⁰ B)

T₅ : Whole baby corn (40⁰:50⁰:60⁰ B)

T₆ : Rectangular baby corn (40⁰:50⁰:60⁰ B)

T₇ : Whole baby corn (50⁰:60⁰:70⁰ B)

T₈ : Rectangular baby corn (50⁰:60⁰:70⁰ B)

Table 4.2. Sensory evaluation of baby corn candy in two types of packages

Characteristics	Treatments				Statistical analysis		
	A	B	C	D	F - Value	SEm±	CD at 5%
Appearance	3.7	3.0	4.0	3.0	5.09	0.32	0.64
Color	3.6	3.0	4.2	3.0	5.94	0.33	0.68
Texture	3.3	3.2	3.3	3.1	0.12	0.39	0.78
Flavor	3.3	3.2	3.6	3.1	3.46	0.31	0.62
Taste	4.0	3.7	4.1	3.1	4.07	0.32	0.64
OAA	3.8	3.5	4.1	3.1	3.67	0.32	0.64

A- Whole candy in MPP, B- Whole candy in LDPE , C-Rectangular candy in MPP, D- Rectangular candy in LDPE

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Table 4.3. Biochemical changes in candies during storage:

Biochemical Parameters	Months of Storage							
	0 month		I month		II month		III month	
	A	B	A	B	A	B	A	B
TSS	33.00	30.00	32.00	28.00	31.50	28.00	31.50	27.00
Moisture	5.92	5.60	5.97	5.64	6.12	5.75	6.20	5.80
Ash	2.24	2.23	2.28	2.24	2.32	2.28	2.38	2.3
Titration acidity	0.72	0.70	0.68	0.63	0.53	0.58	0.42	0.45
pH	4.90	4.80	4.72	4.81	4.31	4.64	4.00	4.20

S. No.	Parameter		F - Value	SEm±	CD at 5%
1	TSS	Between months	35.00 **	0.164	0.547
		Between treatments	525.00 **	0.116	0.387
		Months x Treatments	3.89 NS	0.231	NS
2	Moisture	Between months	159.60 **	0.009	0.029
		Between treatments	1663.80 **	0.006	0.021
		Months x Treatments	4.53 *	0.012	0.041
3	Ash	Between months	96.88 **	0.005	0.016
		Between treatments	99.51 **	0.003	0.011
		Months x Treatments	9.72 **	0.007	0.022
4	Titration acidity	Between months	1615.55 **	0.003	0.010
		Between treatments	1.61 NS	0.002	NS
		Months x Treatments	55.03 **	0.004	0.014
5	pH	Between months	1930.99 **	0.007	0.025
		Between treatments	248.43 **	0.005	0.018
		Months x Treatments	144.07 **	0.011	0.035

A-Rectangular candy in MPP, B-Whole candy in MPP.

Table 4.4. Sensory evaluation scores of baby corn candy samples during storage

Characteristics	Months of Storage							
	0 Month		I Month		II Month		III Month	
	A	B	A	B	A	B	A	B
Appearance	4.5	4.5	4.2	4.2	4.1	4.0	4.0	3.6
Colour	4.5	4.5	4.2	4.1	4.0	4.0	4.0	3.8
Texture	4.5	4.5	4.2	4.0	4.1	3.8.	4.0	3.8
Taste	4.5	4.5	4.2	4.2	4.2	4.0	4.0	3.8
Flavor	4.5	4.5	4.4	4.2	4.2	3.8	4.0	3.6
Overall Acceptability	4.5	4.2	4.2	4.0	4.1	3.8	4.0	3.6

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Characteristics	F-Value		SEm ±	CD at 5%
	Between Samples	Between months		
Appearance	24.57**	16.80*	0.09	0.21
Colour	21.43**	11.31*	0.11	0.26
Texture	113.87**	9.48*	0.10	0.25
Taste	16.09**	8.96*	0.12	0.29
Flavor	25.44**	8.21*	0.13	0.30
Overall acceptability	34.62**	11.99**	0.08	0.19

Table 4.5. Microbial studies of baby corn candies during storage

Months of Microbial studies	Samples	Fungi (cfu/ml)	Bacteria(cfu/ml)	Moulds(cfu/ml)
		10 ⁻⁵	10 ⁻³	10 ⁻⁵
Initial	A	0	0	0
	B	0	0	0
1 st Month	A	0	0	0
	B	0	0	0
2 nd Month	A	0	1.02±0.12	0
	B	0	1.16±0.15	0
3 rd Month	A	0	2.11±0.16	0
	B	0	1.18±0.15	0

A-Rectangular candy in MPP, B-Whole candy in MPP

Table 4.6. Nutritional Composition of baby corn candy (per 100g)

PARTICULARS	Candy
Moisture (%)	7.0±0.30
Ash (%)	2.2±0.02
Fat (g)	0.5±0.19
Fibre (g)	1.95±0.01
Protein (g)	1.93±0.04
Carbohydrate (g)	86±0.01
Energy (K.cal)	359±0.1
Calcium (mg)	24±0.57
Magnesium (mg)	85.33±0.50
Phosphorous (mg)	64.13±0.34
Iron (mg)	0.23±0.01

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Flow chart 1. Standardized flowchart for baby corn candy preparation

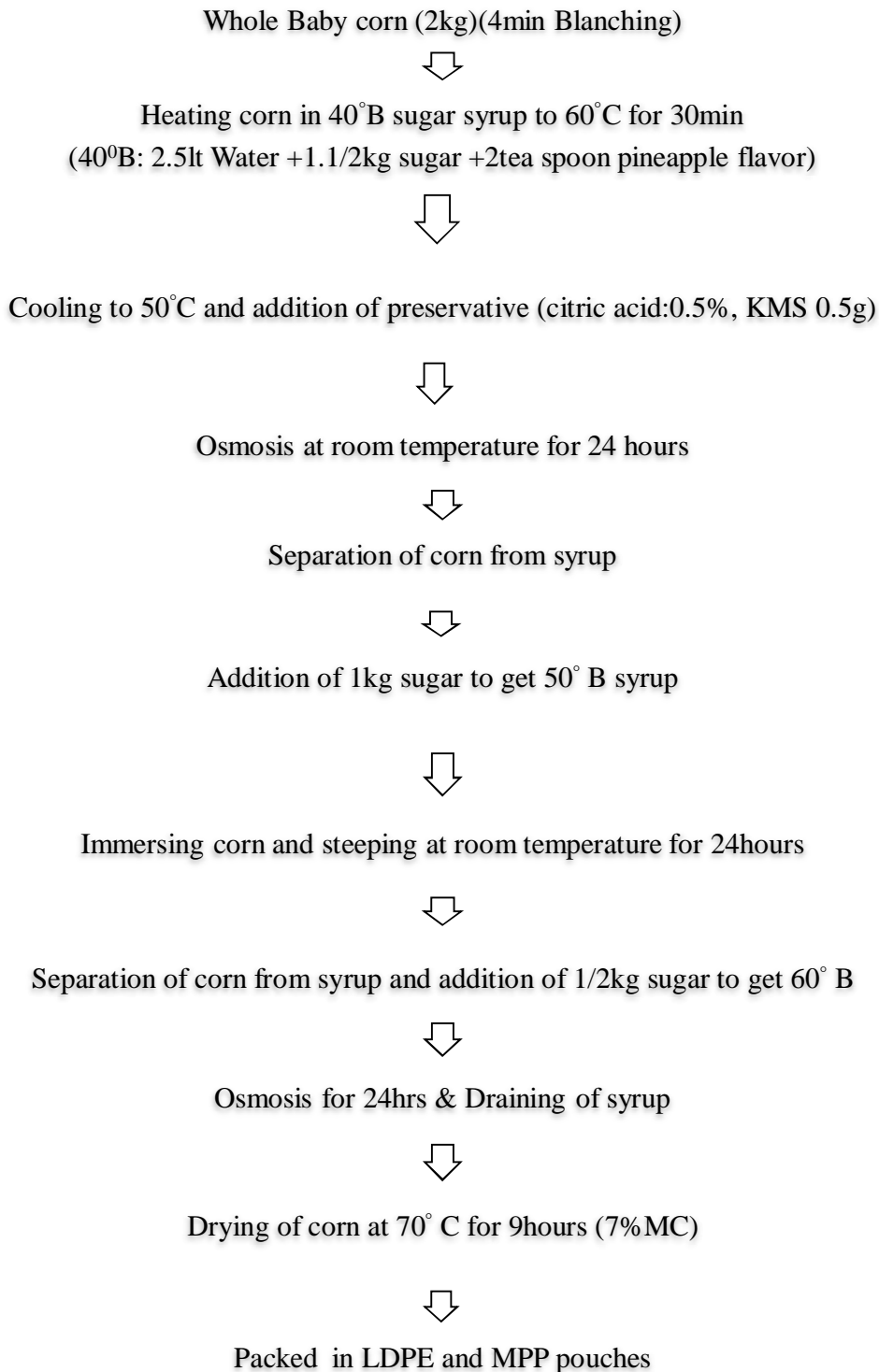


Table 5. Baby corn Murabba preparation at Mandya

Table 5.1. Steps involved in murabba preparation.

T ₁	T ₂
Baby corn (2" rectangular slices)	Baby corn (2" rectangular slices)
4 min hot water blanching with citric acid	4 min hot water blanching with citric acid
Sugar syrup 40 ⁰ B	Sugar syrup 40 ⁰ B
Add blanched baby corn in to sugar syrup	Add blanched Baby corn in to sugar syrup
Next day TSS 36 ⁰ B	TSS after two days 34 ⁰ B, Separation of corn from syrup, Addition of sugar to get 50 ⁰ B syrup (1/2kg)
Next day TSS 34 ⁰ B	TSS after two days 40 ⁰ B, Separation of corn from syrup. Addition of sugar to get 60 ⁰ B syrup (1/2kg)
Next day TSS 30 ⁰ B then stored	Next day TSS 60 ⁰ B then stored
Spoiled after 10 days	Stored over 3 months

Flow chart 2. Standardized flowchart for baby corn Murabba preparation

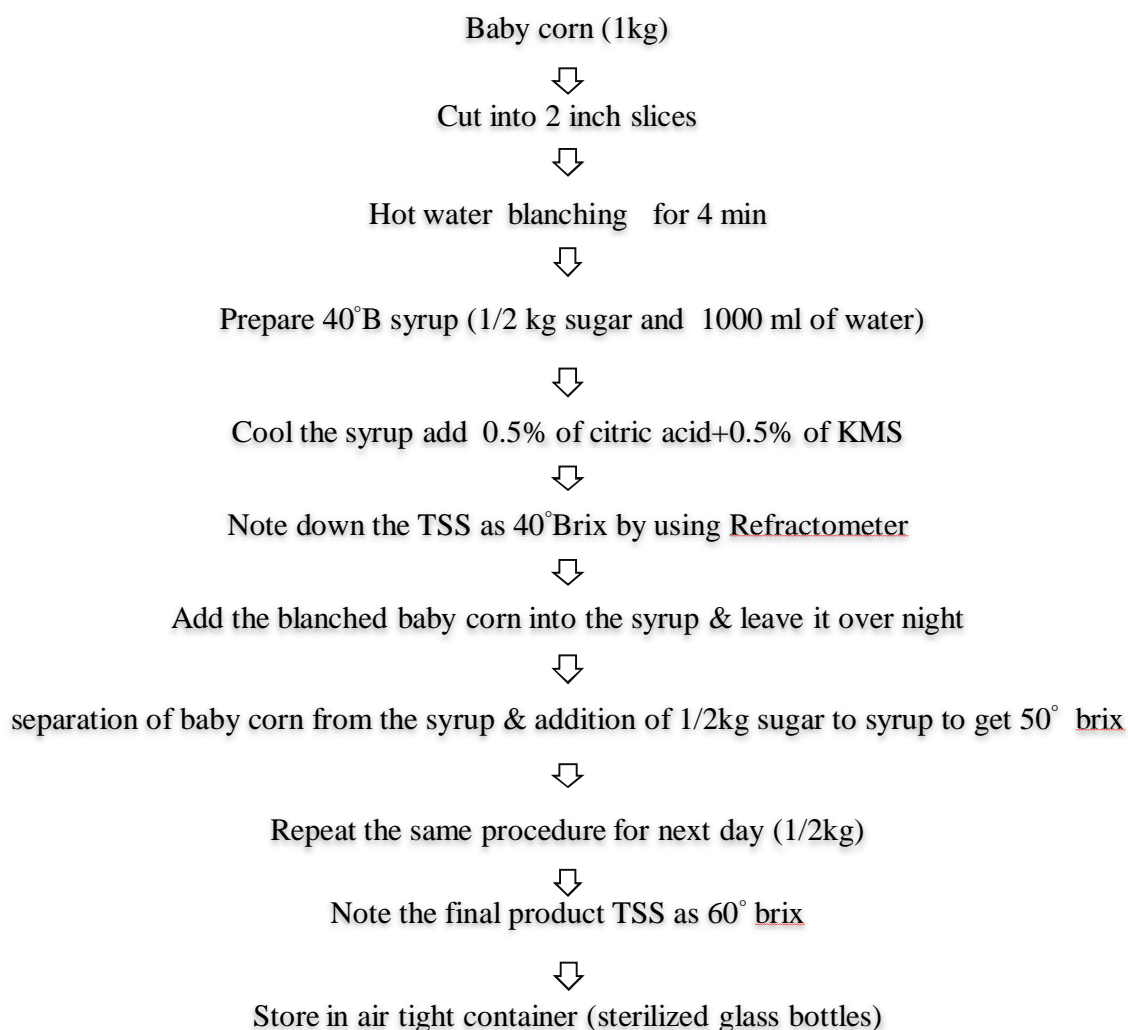


Table 6. Preservation of baby corn by brine solution at Mandya

Treatments	Colour	Taste	Odour	Appearance	Types of spoilage	Inference
T ₁	Colour changed during 5 th week	Good up to 1month	Started changing after 1month	Good up to 1month	Spoiled by turbidity along with bad odour.	Shelf life of four weeks
T ₂	Good up to 2months	Good up to 2months	Good up to 2months	Good up to 2months	Development of brown colour and bad smell	Shelf life up to two months
T ₃	Good up to 3 months	Good up to 3 months	Good up to 3 months	Good up to 3 months	Colour changes to brown	Shelf life up to three months
T ₄	Good up to 4months	Good up to 4months	Good up to 4months	Good up to 4months	Keeping good in all attributes up to 4 months	Keeping well beyond 4 months

** - not Analyse due to spoilage

Treatment details:

T₁: 4% salt solution (with 4min blanching +1% acetic acid)

T₂: 6% salt solution (with 4min blanching +1% acetic acid)

T₃: 8% salt solution (with 4min blanching +1% acetic acid)

T₄: 8% salt solution (with 4min blanching +0.75% citric acid)

Table 7. Preservation of baby corn by dry salt at Mandya

Table 7.1 Change in colour, odour, appearance and acceptability of baby corn preserved in dry salt by different methods

Treatments	Colour	Odour	Appearance	Over all acceptability	Inference
T ₁	Colour change during 2 nd month	Changed during 2 nd month	No change up to two month	Browning was noticed beyond 2 nd month.	Can be kept up to two month
T ₂	Good up to 3months	Good up to 3 months	Good up to 3 months	No changes in perceptible parameters up to three months	Keeping well up to three month

Treatment details:

T₁- 15% (Salt +0.5% citric acid + 0.5% KMS with 4 min hot water blanching)

T₂- 15% (Salt +1% citric acid + 1% KMS with 4 min hot water blanching)

Table 7.2. Change in pH and titrable acidity of baby corn preserved in dry salt by different methods

Characteristics	Weeks of Storage									
	0 month		I month		II month		III month		IV month	
	T ₁	T ₂	T ₁	T ₂	T ₁	T ₂	T ₁	T ₂	T ₁	T ₂
pH	3.8	4.0	3.5	3.8	3.3	3.6	-	3.5	-	3.2
Titrable Acidity	0.64	0.72	0.68	0.74	0.69	0.76	-	0.79	-	0.88

Treatment details:

T₁- 15% (Salt +0.5% citric acid + 0.5% KMS with 4 min hot water blanching)

T₂- 15% (Salt +1% citric acid + 1% KMS with 4 min hot water blanching)

Table 8. Dehydration studies of baby corns at Mandya

Table 8.1: Effect of treatments on sensory scores of dehydrated baby corn

Characteristics	Treatments				Statistical analysis		
	T ₁	T ₂	T ₃	T ₄	F - Value	SEm±	CD @ 5%
Appearance/Colour	3.0	3.7	4.0	3.0	5.09	0.32	0.64
Taste	3.0	3.6	4.2	3.0	5.94	0.33	0.68
Texture	3.1	3.3	3.3	3.2	0.12	0.39	0.78
OAA	3.1	3.8	4.1	3.5	3.67	0.32	0.64

Treatment details

T ₁	T ₂	T ₃	T ₄
Baby corn (contro	Baby corn + 5% Salt 1% KMS + 0.5% citric acid	Baby corn + 6% KMS solution	Baby corn+2%salt brine solution
Procedure			
4min hot water blanching, steeping for 40min	4min hot water blanching, steeping for 40min	4min hot water blanching, steeping for 40min	4min hot water blanching, steeping for 40min
Dried at 70 ⁰ C for 6 hours	Dried at 70 ⁰ C for 6 hours	Dried at 70⁰C for 6 hours	Dried at 70 ⁰ Cfor 6 hours
6.9% moisture content	5.1 % moisture content	4.3 % moisture content	5.3% moisture content
Rehydration ratio 1:1.0	Rehydration ratio 1:1.6	Rehydration ratio 1:2.8	Rehydration ratio 1:1.4

Table 9. Consumer acceptability of maize kesari bath during Krishi mela 2014-15 at Mandya

Sl.no	Parameters	Characters	Number	%
I	Sex	Male	179	71.6
		Female	71	28.4
II	Education	Below SSLC	82	32.8
		SSLC & above	106	42.4
		Degree	50	20
		Master degree & above	12	4.8
III	Occupation	Agriculture	144	57.6
		Housewife	54	21.6
		Govt job		16
		Self employed	36	14.4
IV	Suji type	Rice suji	51	20.4
		Wheat suji	105	42
		Millet suji	20	8
		Maize suji	74	29.6
V	Colour	Good	167	66.8
		Very good	76	30.4
		Not good	7	2.8
VI	Taste	Good	176	70.4
		very good	59	23.6
		Not good	15	6
VII	Overall acceptability	Average	48	19.2
		Good	115	46
		Very good	76	30.4
		Not good	11	4.4

Table 10. Nutritional fact of corn-soya blend made at Dholi

Quality Parameters	Nutritional fact per 100 g	Children (7-9 years)	% RDA
Energy (K cal)	376.27	1950	19.30
Protein (g)	13.49	41	32.90
Fat (g)	4.85	25	19.4
CHO (g)	69.31	-	
Calcium(mg)	192.14	400	48.04
Iron (mg)	2.10	26	8.08

Table 11. Proximate composition of freshly harvested maize grains before and after processing at Dholi.

Maize grain sample	Parameters(g/100g)					
	Moisture (Mean±S.D)	Fat (Mean±S.D)	Ash (Mean±S.D)	Fibre (Mean±S.D)	Protein (Mean±S.D)	Carbohydrate (Mean±S.D)
Control (A)	13.06±2.395	3.23±1.232	1.14±0.437	3.87±1.566	10.83±0.260	67.87±2.738
Boiled (B)	8.21±3.195	3.28±1.229	1.24±0.015	3.79±0.094	10.35±0.405	73.13±0.839
Roasted (C)	3.65±0.292	3.92±0.032	1.25±0.027	2.64±0.060	10.77±0.236	77.77±0.446
Alkali treated (D)	4.80±0.465	3.40±0.042	0.93±0.013	3.30±0.083	10.85±0.286	76.72±0.267
't' value among maize samples						
A×B	7.006***	(-)1.219 ^{NS}	(-)2.501 ^{NS}	0.330 ^{NS}	2.903*	(-)5.990**
A×C	9.274***	(-)25.02***	(-)2.944*	5.137**	0.778 ^{NS}	(-)8.331***
A×D	9.916***	(-)7.164***	6.346**	2.206 ^{NS}	(-)0.275 ^{NS}	(-)8.340***
B×C	12.715***	(-)25.66***	(-)0.439 ^{NS}	25.214***	(-)2.094 ^{NS}	(-)10.26***
B×D	19.145***	(-)3.585*	25.802***	10.144***	(-)4.797**	(-)13.82***
C×D	(-)5.974**	39.401***	23.833***	(-)12.68***	(-)0.595 ^{NS}	4.362**

Each value is the mean of six observations

^{NS} Not significant

*Significant at 5% level of probability

** Significant at 1% level of probability

*** Significant at 0.1% level of probability

Table 12. Proximate composition of maize flour from freshly harvested maize grain before and after processing at Dholi.

Maize flour sample	Parameters (g/100g)					
	Moisture (Mean±S.D)	Fat (Mean±S.D)	Ash (Mean±S.D)	Fibre (Mean±S.D)	Protein (Mean±S.D)	Carbohydrate (Mean±S.D)
Control (A)	9.92±0.294	3.49±0.021	1.28±0.039	1.11±0.060	10.93±0.631	73.27±0.423
Boiled (B)	7.64±0.387	3.64±0.087	1.18±0.009	1.03±0.044	11.76±0.571	74.75±0.927
Roasted (C)	6.42±1.328	3.96±0.011	1.20±0.007	1.04±0.023	9.54±0.572	77.84±0.910
Alkali treated (D)	10.58±1.157	4.01±0.016	1.03±0.017	1.09±0.028	10.88±0.343	72.41±1.075
't' value among maize flour samples						
A×B	19.994***	(-)4.934**	6.539**	3.052*	(-)3.421*	(-)4.122**
A×C	7.793***	(-)37.342***	5.674**	2.983*	5.274**	(-)16.626***
A×D	(-)1.219 ^{NS}	(-)41.645***	12.775***	0.885 ^{NS}	0.235 ^{NS}	1.595 ^{NS}
B×C	3.127*	(-)7.773***	(-)6.033**	(-)0.185 ^{NS}	5.310**	(-)8.605***
B×D	(-)6.393**	(-)11.539***	30.123***	(-)2.655*	2.593*	5.239**
C×D	(-)5.880**	(-)5.046**	26.580***	(-)3.905*	(-)6.203**	8.276***

Each value is the mean of six observations

^{NS}Not significant

*Significant at 5% level of probability

** Significant at 1% level of probability

*** Significant at 0.1% level of probability

Table 13. Proximate composition of control and processed maize grains at varying period of the storage at Dholi.

Maize grains sample	Period of storage	Parameter(g/100g)					
		Moisture	Fat	Ash	Fibre	Protein	Carbohydrate
Control (A)	(X) 0	13.06±2.395	3.23±1.232	1.14±0.437	3.87±1.566	10.83±0.260	67.87±2.738
	(Y) 2	13.45±0.156	3.11±0.004	1.23±0.059	4.03±0.131	11.19±0.406	66.99±0.346
	(Z) 4	15.24±0.395	2.84±0.306	1.19±0.038	3.90±0.156	11.19±0.406	65.64±0.520
Boiled (B)	(X) 0	8.21±3.195	3.28±1.229	1.24±0.015	3.79±0.940	10.35±0.405	73.13±0.839
	(Y) 2	10.61±0.197	3.34±0.034	1.17±0.013	3.89±0.057	10.88±0.460	70.11±0.467
	(Z) 4	11.94±0.337	4.13±0.225	1.19±0.033	3.69±0.137	11.72±0.233	67.33±0.407
Roasted (C)	(X) 0	3.65±0.292	3.92±0.032	1.25±0.027	2.64±0.060	10.77±0.236	77.77±0.446
	(Y) 2	8.30±0.228	3.24±0.031	1.23±0.041	1.54±0.028	11.97±0.189	73.72±0.250
	(Z) 4	7.39±0.211	4.00±0.187	1.09±0.034	2.44±0.637	11.66±0.126	73.42±0.668
Alkali treated (D)	(X) 0	4.80±0.465	3.40±0.042	0.93±0.013	3.30±0.83	10.85±0.286	76.72±0.267
	(Y) 2	8.22±0.887	4.23±0.017	1.01±0.059	3.07±0.022	10.47±0.420	73.00±1.284
	(Z) 4	9.45±0.472	3.80±0.167	1.09±0.045	3.25±0.154	11.89±0.337	70.52±0.825

Each value is the mean of six observations

Table 14. Proximate composition of control and processed maize flour at varying period of the storage at Dholi.

Maize flour sample	Period of storage	Parameter (g/100g)					
		Moisture	Fat	Ash	Fibre	Protein	Carbohydrate
Control (A)	(X) 0	9.92±0.294	3.49±0.021	1.28±0.039	1.11±0.060	10.93±0.631	73.27±0.423
	(Y) 2	10.30±0.355	4.28±0.027	2.42±0.006	1.33±0.029	11.97±0.213	69.70±0.206
	(Z) 4	12.22±0.302	4.04±0.373	1.24±0.079	1.16±0.048	11.97±0.288	69.37±0.766
Boiled (B)	(X) 0	7.64±0.387	3.64±0.087	1.18±0.009	1.03±0.044	11.76±0.570	74.75±0.927
	(Y) 2	13.80±0.063	2.94±0.005	1.23±0.046	1.13±0.216	12.01±0.207	68.89±0.191
	(Z) 4	9.78±0.336	4.02±0.315	1.22±0.038	1.16±0.045	11.84±0.201	71.98±0.365
Roasted (C)	(X) 0	6.42±1.328	3.96±0.011	1.20±0.007	1.04±0.023	9.54±0.572	77.84±0.910
	(Y) 2	7.05±0.088	2.77±0.002	1.24±0.018	1.13±0.216	10.26±0.231	77.55±0.365
	(Z) 4	8.20±0.107	4.00±0.483	1.28±0.082	1.14±0.060	10.95±0.282	74.43±0.584
Alkali treated (D)	(X) 0	10.58±1.157	4.01±0.016	1.03±0.017	1.09±0.028	10.88±0.343	72.47±1.075
	(Y) 2	9.91±0.724	3.32±0.028	1.51±0.010	1.01±0.236	10.81±0.227	73.44±0.758
	(Z) 4	10.13±0.506	4.17±0.306	1.14±0.050	1.15±0.100	11.82±0.320	71.59±0.542

Each value is the mean of six observations

Table 15. Detection of maize grains for fungal and aflatoxin contamination at Dholi.

Samples	Detection of maize grain samples at 4 months of storage			
	BGY fluorescence		Presence of fungus	
	(+ve)	(-ve)	(+ve)	(-ve)
Control (A)	5 (29.42%)	12 (70.58%)	17 (100.00%)	-
Boiled (B)	-	17 (100.00%)	12 (70.58%)	5 (29.42%)
Roasted (C)	3 (17.64%)	14 (82.36%)	15 (88.23%)	2 (11.77%)
Alkali treated (D)	-	17 (100.00%)	11 (64.70%)	6 (35.30%)

+Ve shows the presence

-Ve shows the absence

Table 16. Detection of maize flour for fungal and aflatoxin contamination at Dholi

Samples	Detection of maize flour samples for contamination at 4 months of storage	
	Presence (+ve)	
	Bacterial	Fungal
Control (A)	(+ve)	(+ve)
Boiled (B)	(+ve)	(-ve)
Roasted (C)	(+ve)	(-ve)
Alkali treated (D)	(+ve)	(-ve)

+Ve shows the presence

-Ve shows the absence

Table 17. Level of aflatoxin in maize grains after BGY Fluorescence Test at Dholi.

Maize grains Samples	Level of aflatoxin (ppb)
Control	8.932
Roasted	2.581

FRONT LINE DEMONSTRATIONS

Front Line Demonstrations

The Indian Institute of Maize Research is providing extension service to the nation through organizing Frontline Demonstrations (FLDs) under Integrated Scheme on Oilseed, Pulses, Oilpalm and Maize (ISOPOM) and NFSM, Ministry of Agriculture, Government of India. The institute organized FLDs in collaboration of different AICRIP centre spread across the country, NGO and other agencies. This Institute (IIMR) has also conducted field days, participated in Kisan Melas and Exhibitions. IIMR has allocated 4489 acres FLDs for *rabi*/spring 2013-14 and 130 hectares FLDs for *kharif* 2014. Out of these, various IIMR centres, agencies and NGOs conducted FLDs on 1812.7 acres during *rabi* 2013-14, 816 acres in spring 2014 and 301 hectares FLDs during *kharif* 2014. Thus, a total of 2628.7 acres FLDs for *rabi*/spring and 301 hectares FLDs for *kharif* were conducted against total allotment of 4489 acres and 130 hectares, respectively. These demonstrations were laid out twenty-six states by thirty two centres/agencies/NGOs and an average grain yield of 5497 kg/ha was recorded which showed an increase of 112.8 per cent over all India average yield of maize.

All promising technologies were demonstrated at farmers field. Twenty five FLDs in *rabi* 2013-14 were conducted on seed production of single cross hybrid. The demonstrations on quality protein maize were conducted in Bihar, Gujarat, Haryana, H.P., Jharkhand, Mizoram and Uttar Pradesh. Thirty one FLDs in *rabi* 2013-14 and seventy six FLDs in spring 2014 were conducted on baby corn cultivation in Haryana, U.P. , Delhi, M.P. and Rajasthan using HM 4 variety. An average yield of 1413 kg/ha dehusked baby corn in *rabi* 2013-14 and 1490 kg/ha and 5670 kg/ha dehusked and with husked respectively in *kharif* 2014 was obtained. Some FLDs were conducted on sweet corn and Pop corn cultivation in Himachal Pradesh during *kharif* 2014.

Table 1: Statewise achievements of Frontline demonstrations on Maize conducted by various centres of IIMR during kharif-2014

S. No.	State	Name of the centres/agency	Districts covered	Variety/ hybrid	Conducted FLDs (ha)	Average yield of FLDs (kg/ha)	State average yield - kharif 2014(kg/ha)	% increase over state average yield
1.	Andhra Pradesh	Maize Research centre, ARI, Ranjender, Hydrabad, Telangana	Ranga Reddy district	DHM-117, DHM-121, COH(M)8, P3396, NK6240, 900 M Gold	10	5250	3487	50.6
2.	Gujarat	Main Maize Research Station, Anand Agriculture University, Godhra	Panchmahal	HQPM- 1, GAYMH-1, GAWMH-2, CO-6, HQPM-5	10	3940	1303	202.4
3.	Haryana	CCSHAU, RRS, Uchani, Kamal	Panchkula	HQPM-1, HQPM-5, HQPM-7, HQPM-4, HM-10	10	6263 16780 (Green Cob)	3000	108.8
4.	Himachal Pradesh	CSKHPKV, Hill Agriculture & Extension Centre, Bajaura, Kullu	Mandi	HPQM1, Bajaura Makka, Girija, Early Composite, Bajaura Pop Com, Bajaura Sweet Com(Green Cob)	8	4089 2622(PC) 10428 (Green Cob)	2325	75.9
5.	Jammu & Kashmir	Dryland Agriculture Research Station, Srinagar Centre SKUAST	Pulwama, Bandipora, Ganderbal, Kulgam, Budgam, Kupwara, Srinagar, Anantnag, Baramulla	C-3, C-4, C-5, C-6, C-8, C-15, SMC-5, Bio-605 & KG-2	174	4379	1776	146.6
6.	Jharkhand	Birsa Agriculture University, Ranchi	Ramgarh	HQPM-1	10	3285	1991	65.0
7.	Karnataka	ZARS, V.C, FARM, Mandya	Mandya	Hema, Nityashree, Arjun, Co(H)-08, GH-0726	10	4991	2872	73.8
8.	Maharashtra	Maize Improved Project, Kasabe Bawada, Kolhapur	Dhule	Rajarshri	9.2	4519	2596	74.1

FLD3

9.	Odisha	AICRIP on Maize, OUAT, Bhubneswar	Angul	Hisell, P-3441, P-3501, NMH-920, Sriram-9682, NK-30	10	5910	2766	113.7
10.	Rajasthan	DEE, Udaipur	Udaipur	Prabal, DKC-7074,	10	1648	1597	3.2
11.	Tamil Nadu	AICRP-Maize, Department of Millets, CPBG, Coimbatore	Perambalur	Co6	10	6843	5682	20.4
12.	Uttar Pradesh	Institute of Agricultural Sciences, Banaras Hindu University	Chandauli		9.8	5514	1654	233.4
13.	Uttarakhand	GBPUA&T, Pantnagar	Nainital, Haridwar, and Dehradun	Rasi-4212	20	4416	1398	215.9
				Normal maize for grain	301	4518	2583	74.9
				Bajaura Pop Com		2622		
				Bajaura Sweet Com(Green Cob)		13604		
			Total		301			

Table 2: Statewise achievements of Frontline demonstration on Maize conducted by various centre of IIMR and NGOs during *rabi* 2013-14

S. No.	State	Name of the centres/agency	Districts covered	Variety/ hybrid	Conducted FLDs (acre)	Average yield of FLDs (kg/ha)	State average yield during <i>rabi</i> , 2013-14	% increase over state average yield
1.	Andhra Pradesh	Maize Research Centre, ARI, ANGRAU, Rajendra Nagar, Hyderabad	Guntur, Prakasam, Krishna, East Godavari, Medak, RangaReddy, Warangal, Vizianagaram and Srikakulam	DHM-117	100	6570	6347	3.5
		Maize Winter Nursery, Rajendra Nagar, Hyderabad	Warangal, East Godavari	DHM-117	100	8376	6347	32
2.	Assam	RARS.AAU, Gossaigaon, Kokrajhar	Kokrajhar, Dhubri	PAC-740	70	5499	3925	40.1
3.	Bihar	RMR& SPC Begusrai	Begusarai, Khagaria, Mungyer, Vaishali, Jamui, Gaya	DHM-117, HPQM-1, HKI-193-1, HKI-163	100	6321	3053	107
		TCA Dholi	Samstipur, Muzaffarpur, Buxer, Madhubani, Madhepura	Shaktiman-5	36	6584	3053	115.7
	Bihar	VASFA, Vaishali	Vaishali, Muzaffarpur	NK6607	75	4272	3053	39.93
4.	Chhattisgarh	KVKs Zone VII	Balrampur, Dantewada, Bastar & Kondagaon, Janjgir Champa, Kanker, Narayanpur, Surguja	Hybrid Maize variety NK-30, Aditya, Dhaniya-8255, JK-502, Pioneer3396, 900M Gold, NK-30	300	4374	3925	11.4
5.	Gujarat	Maize Research Station, Anand Agri. University, Godhra	Panchmahals, Dahod	HQPM-1	45	4233	2016	110
6.	Maharashtra	Maize improved Project, Kasaba Bawada, Kolhapur	Gadchiroli, Kolhapur, Sangli	Rajarshi	64	5993	2346	155.5
7.	Madhya pradesh	RVSKVV, Krishi Vigyan Kendra, Jhabua	Jhabua	Biostad HT Moti-101, JK-Ujala, DMH-7314	100	5202	3925	32.5
		JNKVV, Chhindwara	Chhindwara	JM-216	8	6070	3925	54.6
8.	Mizoram	KVK, Aizawal Zone III	Aizawal, Manipur, Nagaland, Meghalaya, Tripura	HQPM-1, RCM-75, Disha 3502	42	3680	1611	128.4*

FLD5

S. No.	State	Name of the centres/agency	Districts covered	Variety/ hybrid	Conducted FLDs (acre)	Average yield of FLDs (kg/ha)	State average yield during rabi, 2013-14	% increase over state average yield
9.	Odisha	OUAT, Bhubneswar	Balasore, Kalahandi	SUPPER 900M HISHELL	150	6535	2807	132.8
10.	Tamil nadu	TNAU, Vagarai	Dindigul, Theni, Karur, Coimbatore, Tiruppur, Perambalur	Maize hybrid TNAU CO6	50	7183	5125	40.2
		Department of Millets, CPBG, TNAU, Coimbatore	Erode, Tirpur, coimbatore, Dindigul, Salem, Tiruvannamalai, Pudukkottai, Nilgiris, Trichi, Theni, Tanjore, Villupuram	CO-6	200	7888	5125	53.9
11.	Uttar pradesh	AICRP ON MAIZE , Deppt.of GPB, B.H.U Varanasi	Chandauli, Deoria, Mirzapur, Sonbhadra	HQPM-1,	16.68	5862	1941	202
		NDUAT, Bahraich	Bahraich	Sri Ram H-9682	50	5450	1941	180.8
		VARDAN, New Delhi	Bulandshahar	31Y45, Visco-740, High Sell, PEMH-5	50	5635	1941	190.3
	Uttar Pradesh	U.P. Maize development Association	Aligarh, Banswara	Hi-Shell, All Rounder, Bio 9681	100	5857	1941	201.1
		Udyaniki Krishi Anusandhan Samiti, Lucknow	Ballia, Banda, Hardoi, Lakimpur Khiri Azamgarh, Maharaj Nagar, Faizabad	Pro. Agro 4640	50	7218	1941	271.9
		Bhartiya Shiksha Gramin Vikas Avam Anusandhan Samiti		HM-4, Syngenta 5414	50(BC)	1375(BC)		
12.	New delhi	IIMR Delhi	NCR Delhi, Indor, Seekar, Bagpat, Alipur, Sonipat	HM-4(Baby corn)	31(BC)	1413(BC)		
				Normal maize for grain	1706.68	5971	2583	131.2
				Seed Production	25			
				Babycorn (dehusked)	81	1390		
			Total		1812.68			

*Percentage increase over average yield of rabi 2012-13

Table 3: State-wise achievements of frontline demonstrations on maize conducted by various centres of IIMR and NGO during spring, 2014

S. No.	States	Name of the centres/ agency	Districts covered	Variety/ hybrid	Conducted FLDs (acre)	Average yield of FLDs (kg/ha)	State average yield (kharif 2014) (kg/ha)	% increase over state average yield
1.	Arunachal Pradesh	KVKs Zone III	Tawang, Tirap	HYB-4226	15	4446	2288	94.4
2.	Bihar	Regional Maize Research and Seed Production Centre, Begusarai	Madhubani, Supaul, Muzzaffarpur, Khagaria, Begusarai, Samastipur	DHM-117& HQPM-1	50	6794	2103	223.1
		IIMR New Delhi	Madhubani, Samastipur	DHM-117	1	6650	2103	216.2
		IMDA	Katihar, Begusarai, Hazaribagh	9108 Power, Pioneer 31Y45	40	5259	2103	150.1
3.	Chhattisgarh	KVK Zone VII	Balrampur, Kondagaon and Bastar, Dantewada, Kanker, Narayanpur	Bioseed-9780, Hisell, Dhaniya-8255, JK-502, Pioneer 3396, Hybrids, 900 M Gold	150	4433	2062	115
4.	Haryana	KVK Zone I	Ambala	Pioneer 31Y45	30	6035	3000	101.2
		CCS HAU RRS Uchani	Kurukshetra, Karnal, Panipat, Kaithal	HM-4 (Baby corn)	34(BC) 4(Green Cob)	5670(BC) 16840 (Green Cob)		
		IIMR New Delhi	Sonipat, Jhajhar, Rohtak, Karnal, Faridabad	HM-4 (Baby corn)	22.5(BC)	1478(BC)		
5.	New Delhi	IIMR New Delhi	Delhi NCR	HM-4 (Baby corn)	1(BC)	1350(BC)		
6.	Odisha	KVK Zone VII	Sundargarh, Deogarh, Koraput	Super-36, JK-101	100	4755	2766	71.9
7.	Punjab	KVK Zone I	Amritsar, Shaheed Bhagat Singh Nagar	DKC-9018, Pioneer-31Y45, PMH-7	20	6764	3900	73.4

FLD7

S. No.	States	Name of the centres/ agency	Districts covered	Variety/ hybrid	Conducted FLDs (acre)	Average yield of FLDs (kg/ha)	State average yield (kharif 2014) (kg/ha)	% increase over state average yield
		PAU, Ludhiana	Ludhiana, Hoshiarpur, Kapurthala, Sangrur, Ropar, Gurdaspur, Patiala, Shaheed Bhagat Singh Nagar	PMH7, PMH8	71	6254	3900	60.4
8.	Rajasthan	IIMR New Delhi	Alwar, Rajsamand, Jhunjhunu	DHM-117, HM-4 (Baby corn)	0.5 2(BC)	6500 1450(BC)	1597	307
9.	Uttar Pradesh	IIMR New Delhi	Bulandshaher, Kanpur, Agra, Meerut, Kasganj	DHM-117	48.5 16.5(BC)	6585 1521(BC)	1654	298.1
				HM-4 (Baby corn)				
		U.P. Maize Development Association	Bulandshahar, Meerut	Hishell, 900M	50	4942	1654	198.8
		IMDA	Kushinagar, Ballia, Deoria, Agra	Hi-Shell, Pioneer 31Y45	35	4941	1654	198.8
		GVS Barabanki	Barabanki, Sitapur	31Y45	50	5000	1654	202.3
		VARDAN, New Delhi	Bulandshahar	31Y45, X-47, High Sell, PEMH-2	25	5060	1654	205.9
		Udyaniki	Hardoi, Lucknow, Pratrapgarh, Chatpati Saujimaharh Nagar, Lakhimpur Khiri, Ballia	Pro. Agro 4640	50	6600	1654	299
				Normal maize for grain	736	5399	2583	109.02
				Baby Corn (with husk)	34	5670		
				Baby Corn(dehusked)	42	1490		
				Green Cob	4	16840		
			Total		816			

TRIBAL SUB PLAN

Tribal Sub Plan scheme

To acquaint with the latest technologies and uplift the economic condition of tribal farmers, a scheme *viz.* Tribal Sub Plan was launched by the Government of India. The Indian Institute of Maize Research implemented this scheme in various forms *viz.* skill enrichment through trainings, field days and field visits, demonstration of technologies at farmers field; and supporting tribal farmers by providing various farm inputs like seed of hybrids, fertilizers, small farm implements *etc.*

During 2014, 171 demonstrations were carried out at tribal farmer's field by Indian Institute of Maize Research through its AICRIP centers in the states of Maharashtra, Karnataka, Uttar Pradesh, Odisha, Madhya Pradesh and Andhra Pradesh. The mean yield under the demonstration varied from 2875 to 6555 kg/ha with the % increase of 9.1 to 87.9 over average state yield in the state of Madhya Pradesh and Andhra Pradesh, respectively.

The Indian Institute of Maize Research organized ten National level trainings comprised of three days at New Delhi for the tribal farmers of Assam, Andhra Pradesh, Bihar, Chhattisgarh, Delhi, Gujarat, Jammu and Kashmir, Jharkhand, Madhya Pradesh, *Odisha*, Rajasthan and Uttar Pradesh states (Table 2). The women participation in these trainings was 7.4 %. The trainings covered all aspects of maize production system *viz.* latest technologies related to production; protection and value addition. Farmers learnt methods for preparation of various value added products of maize at domestic level. The farmers were also benefited through visiting the National level Hybrid Demonstration Programme organized by the Institute. During the training programme farmers also visited the fields of progressive farmers located in National Capital Region and during these visits farmers were not only exposed to maize and specialty corn technologies but also the other technologies like protected crop production techniques, mushroom cultivation and resource efficient technologies. IIMR also organized one Regional level training each in RMR and SPC, *Begusarai* (Bihar) and Maharashtra for tribal farmers. The inputs like seed of latest hybrid and maize *shellers* were also distributed to the trainee farmers. The literature in the form of posters and booklets on covering all aspects of maize technologies were also provided to these farmers, so that they may teach other farmers in their villages.

Table 1. National and regional level training programmes under Tribal Sub Plan scheme

Date	Beneficiaries		Total	Input distraction	State covered
	Male	Female			
NATIONAL LEVEL TRAINING					
Seed Production technology and value addition					
26 to 28 Feb.2014	28	02	30	Hybrid Seed, Maize Sheller	Jharkhand, Rajasthan, Jammu and Kashmir and Madhya Pradesh
05 to 07 March 2014	41	-	41	Hybrid Seed, Maize Sheller	Uttar Pradesh, Gujarat, Rajasthan, Jammu and Kashmir and New Delhi
10 to 12 March 2014	34	-	34	Hybrid Seed, Maize Sheller	Chhattisgarh, Rajasthan, Gujarat, Madhya Pradesh and U.P.
21 to 23 March 2014	45	-	45	Hybrid Seed, Maize Sheller	Odisha, Madhya Pradesh, Rajasthan, Gujarat and Chhattisgarh
25 to 27 March 2014	37	-	37	Hybrid Seed, Maize Sheller	Madhya Pradesh , Rajasthan and Gujarat
29 to 31 March 2014	27	09	36	Hybrid Seed, Maize Sheller	Assam, Madhya Pradesh, Odisha Andhra Pradesh and Jharkhand
Improved production and value addition technologies for speciality corn					
10 to 12 September 2014	49	-	49	Hybrid Seed, Maize Sheller	Madhya Pradesh, Uttar Pradesh Rajasthan, Chhattisgarh and Gujarat
Production system and value addition in maize					
17 to 19 September 2014	47	-	47	Hybrid Seed, Maize Sheller	Gujarat, Andhra Pradesh , Assam, Madhya Pradesh and Rajasthan
Maize production and value addition technologies increasing income of farmer					
24 to 26 September 2014	36	-	36	Hybrid Seed, Maize Sheller	Assam, Gujarat, Rajasthan and Uttar Pradesh
Improved production and value addition for technologies speciality corn					
8 to 10 October 2014	37	07	44	Hybrid Seed, Maize Sheller	Assam, Chhattisgarh, Rajasthan and Uttar Pradesh
Regional level training					
Tribal farmers training programme East region maize production technologies					
17 October 2014	41	18	59		Bihar

AICRP Monitoring Report - Kharif 2014

AICRP Monitoring Report-Kharif 2014

Sl. No	Name of Centre	Monitoring Team and Date of Monitoring	Remarks/Comments	Overall Grading
1	Barapani	1. Dr. Dilip Singh, MPUAT, Udaipur. 2. Dr. Pramod Rokadia, MPUAT, Banswara. 3. Dr. S.S. Sharma, Pathologist, MPUAT, Udaipur	Breeding- Seed of Kharif trials is required by first week of May for timely planting. Centre needs good inbred lines.	Good
			Agronomy:- PMH-4, Bio-9681 and Vivek QPM-9 were found better in integrated farming system.	
			Plant Pathology:-Three trials were conducted. Major disease is TLB.	
2	Gossaingaon	1. Dr. Dilip Singh, Agronomist, MPUAT, Udaipur 2. Dr. Pramod Rokadia, MPUAT, Banswara. 3. Dr. S.S. Sharma, Pathologist, MPUAT, Udaipur	Breeding:-Two trials namely 66 and 68 were rejected due to water logging.	Good
			Plant Pathology & Entomology: No trials	
3	Pantnagar	1. Dr. R.B.Dubey, Breeder, MPUAT, Udaipur 2. Dr. Hargilas, Agronomist, MPUAT, Banswara 3. Dr. R.Devlash, Pathologist, HAREC, Bajaura (H.P.) Date : 15-16 September 2014	Breeding: All the trials were conducted as per technical program. Development of inbred lines and single cross hybrid is required.	Excellent
			Agronomy: All the trials were conducted as per technical program.	Excellent
			Plant Pathology: Trials were conducted in good manner. All the entries were artificially inoculated to screen against BLSB and Stalk rot.	Excellent
			Entomology: No trials.	
4	Almora	1. Dr. R.B.Dubey, Breeder, MPUAT, Udaipur 2. Dr. Hargilas, Agronomist, MPUAT, Banswara 3. Dr. R.Devlash, Pathologist, HAREC, Bajaura (H.P.) Date : 15-16 September 2014	Breeding:- All the trials were conducted as per technical program.	Excellent
			Agronomy:- All trials were conducted as per technical program in good manner.	Excellent
			Plant Pathology:- Excellent experimentations and data recording.	Excellent
			Entomology:-No trials.	
5	Behraich	1. Dr. N.K.Singh, Plant Breeding, GBPUAT, Pantnagar. 2. Dr. Mahesh Kumar, Agronomist, PAU, Ludhiana Date : 25-26 September 2014	Breeding:- All the trials were planted, however popcorn trial was rejected due to heavy logging. The post of breeder should be filled on priority basis.	Very Good
			Agronomy:- All the trials were planted as per technical program and For N X G trial sufficient seed should be provided.	Very Good
			Plant Pathology:- No trials.	
			Entomology:No trials.	
6	Kanpur	1. Dr. N.K.Singh, Plant Breeding, GBPUAT, Pantnagar. 2. Dr. Mahesh Kumar, Agronomist, PAU, Ludhiana	Breeding:- All the trials were planted, however Baby corn and sweet corn trials were rejected due to poor plant population.	Average
			Agronomy:- Four trials were allotted and all four trials were rejected due to poor plant population.	Average
			Plant Pathology:- No trials.	

Sl. No	Name of Centre	Monitoring Team and Date of Monitoring	Remarks/Comments	Overall Grading
		Date : 25-26 September 2014	Entomology:-No trials.	
7	Bajaura	1. Dr. Bhupender Kumar, Scientist, Breeding, DMR, New Delhi 2. Dr. Mritunjay Kumar Agronomist, Tirhut College of Agriculture, Dholi, Bihar 3. Dr. Vinod Kumar, Pathologist, RRS, Uchani, Karnal. Date : 17-20 September 2014	Breeding:-Excellent growth expression was observed in all the trials. The sowing season in this region starts from mid-May to 25 th June. Therefore, the seed of the trials needs to deliver at the end of May or at least in first week of June.	Excellent
			Agronomy:- Excellent growth expression was observed in all the trials.	Excellent
			Plant Pathology:- All the trials were conducted under good field practices. Plant population was good in sick plots for BLSB.	Good
			Entomology:-No trials.	
8	Kangra	1. Dr. Bhupender Kumar, Scientist, IIMR, New Delhi 2. Dr. Mritunjay Kumar Agronomist, Tirhut College of Agriculture, Dholi, Bihar 3. Dr. Vinod Kumar, Pathologist, RRS, Uchani, Karnal. Date : 17-20 September 2014	Breeding:- The experiments were conducted in very good manner however, one trial of popcorn was rejected due to lodging.	Very Good
			Agronomy:- The trials conducted very neatly and over all expression was very good.	Very Good
			Plant Pathology:-No trials.	
			Entomology:-No trials.	
9	Dhaulakuan	1. Dr. Bhupender Kumar, Scientist, IIMR, New Delhi 2. Dr. Mritunjay Kumar Agronomist, Tirhut College of Agriculture, Dholi, Bihar 3. Dr. Vinod Kumar, Pathologist, RRS, Uchani, Karnal. Date : 17-20 September 2014	Breeding:- (Volunteer Centre), Private hybrids showing resistant reaction for various diseases can be used to extract inbred lines. Fixed lines can be used in breeding program.	Very Good
			Plant Pathology:- All the trials were conducted in good manner and sick plots for BLSB and BSR were developed.	Very Good
			Entomology : No trials	
10	Hyderabad	1. Dr. J.C. Sekhar, Pr. Scientist, Winter Nursery . 2. Dr. K.C.Arya, Agronomist, CSA, Kanpur 3. Dr. Maha Singh, Entomologist, RRS, Uchani, Karnal 4. Dr. P. Renuka Devi, Pathologist, TNAU, Coimbatore Date : 25-27 September 2014	Breeding:- Technical programme has been implemented as per the plan.	Excellent
			Agronomy:- All allotted trials were conducted neatly and systematically.	Excellent
			Plant Pathology:- Technical programme has been implemented as per the plan.	Excellent
			Entomology:- Technical programme has been implemented as per the plan and experiments were conducted very neatly.	Very Good
11	Karimnagar	1. Dr. J.C. Sekhar, Pr. Scientist, Winter Nursery . 2. Dr. K.C.Arya, Agronomist, CSA, Kanpur 3. Dr. Maha Singh, Entomologist, RRS, Uchani, Karnal 4. Dr. P. Renuka Devi, Pathologist, TNAU, Coimbatore Date : 25-27 September 2014	Breeding:- All the allotted trials were conducted as per the technical programme. Breeding program on line maintenance needs to be improved.	Very Good
			Agronomy:-All the allotted trials were conducted as per the technical programme.	Excellent,
			Plant Pathology:- No trials	

Sl. No	Name of Centre	Monitoring Team and Date of Monitoring	Remarks/Comments	Overall Grading
			Entomology:- No trials	
12	Karnal	1. Dr. Manoj Mahla, Entomologist, MPUAT, Udaipur 2. Dr. C M Parihar, Scientist, IIMR, New Delhi 3. Dr. C. Chandrashekhar, VPKAS, Almora 4. Dr. J. P Tyagi, Breeding, ICAR NEH, Barapani. 5. Dr. Amit Dadheech, Breeder, MPUAT, Udaipur Date : 22-24 September 2014	Breeding:- The centre is doing excellent work in maize breeding and all the trials were well managed.	Excellent,
			Agronomy:- Trials were conducted as per approved technical program.	Very Good
			Plant Pathology:- Trials were conducted as per technical program.	Very Good
			Entomology:- Trials were conducted as per approved technical program.	Very Good
13	Ludhiana	Dr. Manoj Mahla, Entomologist, MPUAT, Udaipur 2. Dr. C M Parihar, Scientist, IIMR, New Delhi 3. Dr. C. Chandrashekhar, VPKAS, Almora 4. Dr. J. P Tyagi, Breeding, ICAR NEH, Barapani. 5. Dr. Amit Dadheech, Breeder, MPUAT, Udaipur Date : 22-24 September 2014	Breeding:- The centre is doing excellent work in maize breeding.	Excellent
			Agronomy:- The centre is doing excellent work in maize agronomy and all the trials were well managed.	Excellent
			Plant Pathology:- The centre is doing excellent work in maize.	Excellent
			Entomology:- The centre is doing excellent work in maize pathology.	Excellent
14	Udhampur	Dr. Manoj Mahla, Entomologist, MPUAT, Udaipur 2. Dr. C M Parihar, Scientist, IIMR, New Delhi 3. Dr. C. Chandrashekhar, VPKAS, Almora 4. Dr. J. P Tyagi, Breeding, ICAR NEH, Barapani. 5. Dr. Amit Dadheech, Breeder, MPUAT, Udaipur Date : 22-24 September 2014	Breeding:-Monitoring team could not visit centre due to severe flood.	Good
			Agronomy:-No agronomy trials were allotted by DMR as the scientist has gone on study leave. No alternative arrangement has been made by the university.	
			Plant Pathology:-No trials.	
			Entomology:- No trials	
15	Varanasi	1. Dr. D. R. Thakur, Prof. Agron, HAREC, Bajaura, HP 2. Dr. S.K. Gularia, Sr. Breeder, HAREC, Bajaura,H.P. Date : 25-27 September 2014	Breeding:- All the allotted trials were conducted as per the technical programme	Very Good
			Agronomy, Plant Pathology & Entomology :-No Trials..	
16	Ambikapur	1. Dr. D. R. Thakur, Prof. Agron, HAREC, Bajaura, HP 2. Dr. S.K. Gularia, Sr. Breeder, HAREC, Bajaura,H.P. Date : 25-27 September 2014	Breeding:- The growth expression was very good in most of the trials. Plant stand was optimum, and all the trials were well managed.	Very Good
			Agronomy:- All the allotted trials were conducted as per the technical programme	Very Good
			Plant Pathology & Entomology:-No trials.	
17	Udaipur	1. Dr. J.S. Chawla Prof. Plant Bree., PAU Ludhiana 2. Dr. Ganapati Mukri, Sci, Breeding, IIMR, Ludhiana 3. Dr. N. Mallikarjuna, Pathologist ARS, Mandya 4. Dr. Jawala Jindala, Entomologist, PAU, Ludhiana Date : 29 September to 03 October 2014	Breeding:- The plan was implemented as per technical program, layout of the experiment needs to done in compact block.	Excellent
			Agronomy:- The plan was implemented as per technical program, Seed material in N X G trial was less so it should be send in sufficient amount by IIMR Scientist.	Excellent
			Plant Pathology:- All the trials were conducted as per plan.	Excellent

Sl. No	Name of Centre	Monitoring Team and Date of Monitoring	Remarks/Comments	Overall Grading
			Nematology :- All the trials were conducted as per plan.	Very Good
			Entomology:-All the trials were properly managed and recorded as per technical plan.	Good
18	Banswara	1. Dr. J.S. Chawla Prof. Plant Bree., PAU Ludhiana 2. Dr. Ganapati Mukri, Sci, Breeding, IIMR, Ludhiana 3. Dr. N. Mallikarjuna, Pathologist ARS, Mandya 4. Dr. Jawala Jindala, Entomologist, PAU, Ludhiana Date : 29 September to 03 October 2014	Breeding:- All trials were conducted in good manner.	Very Good
			Agronomy:- Out of six trials three trials viz. late maturity (N x G), medium maturity (N x G) and SSNM in maize-chickpea system were rejected due to poor growth expression of the crop. Dry seeding and proper drainage is required in aberrant weather condition.	Very Good
			Plant Pathology:-No trials,	
			Entomology:-No trials.	
19	Godhara	1. Dr. J.S. Chawla Prof. Plant Bree., PAU Ludhiana 2. Dr. Ganapati Mukri, Sci, Breeding, IIMR, Ludhiana 3. Dr. N. Mallikarjuna, Pathologist ARS, Mandya 4. Dr. Jawala Jindala, Entomologist, PAU, Ludhiana Date : 29 September to 03 October 2014	Breeding:-Rating: All the trials were conducted in very good manner under rainfed condition. Layout of the trials need to be planted in compact blocks rather than full length of the field.	Very Good,
			Agronomy:- Experiments were conducted in very good conditions and program implemented as per technical programme. Sufficient seed should be send for NXGtrial.	Very Good
			Plant Pathology & Entomology :-No trials	
20	Jhabua	1. Dr. J.S. Chawla Prof. Plant Bree., PAU Ludhiana 2. Dr. Ganapati Mukri, Sci, Breeding, IIMR, Ludhiana 3. Dr. N. Mallikarjuna, Pathologist ARS, Mandya 4. Dr. Jawala Jindala, Entomologist, PAU, Ludhiana Date : 29 September to 03 October 2014	Breeding:- out of eight trials two trials were not conducted due to shortage of land.	Good
			Agronomy:-Agronomic trials were conducted in good manner. Due to erratic rainfall crop growth expression was poor.	Good
			Plant Pathology:-No trials	
			Entomology:-No trials.	
21	Chhindwara	1. Dr. S.R. Kulkarni, I/c AICRP, (Maize), Maharashtra Shahu Agri School Campus, Kolhapur 2. Dr. Mahender Singh, I/c AICRP (Maize), Zonal ARS , RVSKVV, Jhabua (M.P.) Date : 23 September to 24 September, 2014	Breeding:- All the trials were planted, however six trials viz. 64, 65, 68, QPM, sweet corn and P.C were rejected due to poor plant stand.	Average
			Agronomy:- All the trials were planted and managed as per plan.	Very Good
			Plant Pathology:-No trials.	
			Entomology:-No trials.	
22	Coimbatore	1. Dr. P. Kumar, Pri. Scientist, IIMR, New Delhi 2. Dr. Chikkappa, Breeding, IIMR, New Delhi 3. Dr. S.S. Hallikeri, Pr. Scientist, ARS, Dharwad 4. Dr. I.K.Kalappanavar, ARS, MRU, UAS, Dharwad Date : 19-22 Sept,2014	Breeding:- The centre is doing very good work in maize breeding.	Very Good
			Agronomy:-No trials.	
			Plant Pathology:-No trials.	
			Entomology:- Trials were conducted in very good conditions.	Very Good

Sl. No	Name of Centre	Monitoring Team and Date of Monitoring	Remarks/Comments	Overall Grading
23	Vagarai	1. Dr. P. Kumar, Pri. Scientist, IIMR, New Delhi 2. Dr. Chikkappa, Breeding, IIMR, New Delhi 3. Dr. S.S. Hallikeri, Pr. Scientist, ARS, Dharwad 4. Dr. I.K.Kalappanavar, ARS, MRU, UAS, Dharwad Date : 19-22 Sept,2014	Breeding:- Trial were conducted in very good manner however due to water scarcity expression of hybrids was slightly affected.	Very Good
			Agronomy:- The trials were conducted very neatly.	Very Good
			Plant Pathology:-No trials.	
			Entomology:-No trials.	
24	Mandya	1. Dr. P. Kumar, Pri. Scientist, IIMR, New Delhi 2. Dr. Chikkappa, Breeding, IIMR, New Delhi 3. Dr. S.S. Hallikeri, Pr. Scientist, ARS, Dharwad 4. Dr. I.K.Kalappanavar, ARS, MRU, UAS, Dharwad Date : 19-22 Sept,2014	Breeding:- The centre is doing very good work in maize breeding.	Very Good
			Agronomy:- No trials	
			Plant Pathology:-No trials	
			Entomology:- Downy mildew screening is done in very good manner.	Very Good
25	Kolhapur	1. Dr. J. P. Shahi, Professor, BHU, Varanasi-UP 2. Dr. T. A. Srirama Shetty, ARS,Mandya 3. Dr. Vijay Pooniya, Scientist, IARI, New Delhi 4. Dr. Ravinder Kumar, Entomologist, PAU, Ludhiana Date : 30 Sept-03 Oct,2014	Breeding:- Trial 61(Late maturity, IVT) and 62(Medium maturity, IVT) were conducted in very light soil; hence the expression were not good as expected.	Good
			Agronomy:- Trial were conducted in average manner.	Average
			Entomology:- Trial were conducted in good manner.	Good
26	Arbhavi	Dr. J. P. Shahi, Professor, BHU, Varanasi-UP 2. Dr. T. A. Srirama Shetty, ARS,Mandya 3. Dr. Vijay Pooniya, Scientist, IARI, New Delhi 4. Dr. Ravinder Kumar, Entomologist, PAU, Ludhiana Date : 30 Sept-03 Oct,2014	Breeding:- Breeding program was observed and was well planned and executed. ?	Very good
			Agronomy:- All trials were conducted in very good manner and seed needs to be sent in first week of June so that early sowing can be done.	Very Good
			Plant Pathology:- All trials were implemented and disease incidence was also good. There is an urgent need to have separate fully equipped pathology laboratory.	Very Good
27	Dharwad	Dr. J. P. Shahi, Professor, BHU, Varanasi-UP 2. Dr. T. A. Srirama Shetty, ARS,Mandya 3. Dr. Vijay Pooniya, Scientist, IARI, New Delhi 4. Dr. Ravinder Kumar, Entomologist, PAU, Ludhiana Date : Date : 30 Sept-03 Oct,2014	Breeding:- Trials were conducted in very good manner.	Good
			Agronomy:- No trials.	
			Entomology:- No trials.	
28	KSSC, Dharwad	1. Dr. J. P. Shahi, Professor, Plant Breeding Institute of Agricultural Sciences, BHU, Varanasi-UP 2. Dr. T. A. Srirama Shetty, Pathologist, Plant Pathology, Zonal ARS, V.C. Farm, Mandya 3. Dr. Vijay Pooniya, Scientist, Agronomy IARI, New Delhi 4. Dr. Ravinder Kumar, Entomologist, PAU, Ludhiana Date : 30 Sept-03 Oct,2014	Breeding:-Trial 62 and 64 recommended for rejection because of low plant density. The trials were conducted in along fertility gradient whereas layout has to be perpendicular to fertility gradient.	

Sl. No	Name of Centre	Monitoring Team and Date of Monitoring	Remarks/Comments	Overall Grading
29	Kashmir	Dr. Avinash Singode, Scientist, IIMR, Ludhiana Date-20-22Aug, 2014	Breeding:- All trials were conducted in a good manner.	Good
			Agronomy:- No Trial.	
			Entomology:- No Trial.	
30	Bhubneshwar	1. Dr. S.M.Khanorkar, Plant Breeding, ARS, Godhra. 2. Dr. S.L.Jat, Agronomist, IIMR, New Delhi. Date : 24-27 Sept,2014	Breeding:- Twelve trials were conducted and one trial of pop corn was rejected.	Very Good
			Agronomy:- All three trials were conducted in good manner.	Very Good
			Plant Pathology:- Out of twelve trials, one trial on speciality corn AVT was not conducted.	Very Good
			Entomology:- No trials.	
31	Ranchi	1. Dr. S.M.Khanorkar, Sr. Scientist, Plant Breeding, ARS, Godhra. 2. Dr. S.L.Jat, Agronomist, IIMR, New Delhi. Date : 24-27 Sept,2014	Breeding:- All twelve coordinated trials were conducted in good condition.	Very Good
			Agronomy:- All three trials were conducted in very good condition.	Very Good
			Plant Pathology:-No trials	
			Entomology:- No trials.	
32	Dholi	1. Dr. S.M.Khanorkar, Senior Scientist, Plant Breeding, ARS, Godhra. 2. Dr. S.L.Jat, Agronomist, IIMR, New Delhi. Date : 24-27 Sept,2014	Breeding:- Out of twelve coordinated trials, two trials viz. 68 I-3 and pop corn I-II-III were rejected.	Good
			Agronomy:- The data on soil health must be recorded in long term tillage experiment. Seeding of water logging tolerant plants.	Very Good
			Plant Pathology:- The plant population must be maintained.	Very Good
			Entomology:- No artificial inoculation of chilo was performed.	Good
Volunteer centres				
1.	Berthin KVK, Bertin (CSKHPKV, Palampur)		Breeding:- Plots used for trial should be replaced as the present location is surrounded by trees. There is water tunnel passing near the field trials and due to which heavy infection of disease and pest is occurring. Rejected: Third replication of T-68-72	Good
			Agronomy, Plant Pathology, Entomology: No trials	
2.	Koraput OUAT, Pottange, Koraput (Odisha)		Breeding:- All the trials have been conducted under good crop management as per technical program.	Good
			Agronomy, Plant Pathology, Entomology: No trials	
3.	Medianapur (West Bengal)		Breeding:- Four trials were allotted and all four trials were rejected.	Poor

Sl. No	Name of Centre	Monitoring Team and Date of Monitoring	Remarks/Comments	Overall Grading
			Plant Pathology:- : One trial was rejected	Good
			Agronomy, Entomology: No trials	
4.	ARS, Kota (Agriculture University, Kota)		Breeding:- All four trials were conducted as per technical program	Good
			Agronomy, Plant Pathology, Entomology: No trials	
5.	NARP, Aurangabad (VNMKV, Parbhani, Maharashtra)		Breeding:- All four trials were conducted as per technical program	Good
			Agronomy, Plant Pathology, Entomology: No trials	
6.	ARS, Dhule (MPKV, Rahauri, Maharashtra)		Breeding:- All four trials were conducted as per technical program	Good
			Agronomy, Plant Pathology, Entomology: No trials	
7.	ARS, Niphad, Distt. Nasik (MPKV, Rahauri, Maharashtra)		Breeding:- All four trials were conducted as per technical program	Good
			Agronomy, Plant Pathology, Entomology: No trials	
8.	S. M. Sehgal Foundation Hyderabad		Breeding:- All the allotted trials were conducted according to the technical programme..	Excellent
			Agronomy, Plant Pathology, Entomology: No trials	
9.	Regional Agriculture Research Station Ujjain (RVSKVV, Gwalior)		Breeding:- All four trials were conducted as per technical program	Good
			Agronomy, Plant Pathology, Entomology: No trials	
10.	College of Agriculture Indore (RVSKVV, Gwalio)		Breeding:- All four trials were conducted as per technical program	Good
			Agronomy, Plant Pathology, Entomology: No trials	
11.	KVK, Bhiloda (Anand Agriculture University)		Breeding:-Crop growth, expression and management were very good. Collection of land races was suggested for their bio-chemical analysis and promising lines may be used for breeding programme.	Very Good
			Agronomy, Plant Pathology, Entomology: No trials	
12.	Hidl Millets Research Station Dahod (AAU)		Breeding:- All six trials were conducted in very good manner	Very Good
			Agronomy, Plant Pathology, Entomology: No trials	

ICAR-CIMMYT COLLABORATION

CONTENTS

Table No.	Trial Code	Trial Description	Page No.
		Executive Summary of ICAR-CIMMYT Technical Programme - 2014-15	i
		Brief Summary of ICAR-CIMMYT Technical programme 2014-15	ii – iii
		Pedigree Details of Trials	Table 1-18 IC1 – IC41
Optimum management condition			
1	CAT1475 [VHTJ1310 (Srinagar), VHTJ138 (Bajaura)]	IET of Early duration yellow hybrids	IC42 – IC43
2	CAT1476 (Srinagar)	IET of White QPM Hybrids	IC44
3	CAT1476 (Godra)	IET of White QPM Hybrids	IC45 –IC46
Water-logging condition			
4	CAT1431 [ABHT-29]	Advance stage early-medium maturity yellow hybrids-Set 4	IC47
5	CAT1431 [ABHT112]	Advance stage early-medium maturity yellow hybrids-Set 4	IC48 – IC49
6	CAT1432 [ADWUTC-19]	Advance stage early-medium maturity yellow hybrids-Set 5	IC50 – IC51
7	CAT1432 [ADWBCTC-114]	Advance stage early-medium maturity yellow hybrids-Set 5	IC52
8	CAT1433 [AWWTC15]	Advance stage early-medium maturity yellow hybrids-Set 6	IC53 – IC54
9	CAT1433 [AWWTC25]	Advance stage early-medium maturity yellow hybrids-Set 6	IC55 – IC56
10	CAT1434 [EDWBCTC19]	Advance stage early-medium maturity yellow hybrids-Set 7	IC57
11	CAT1434 [EDWBCTC210]	Advance stage early-medium maturity yellow hybrids-Set 7	IC58
Screening for different diseases (BLSB, MSR, FSR, TLB, DM)			
12	BLSBAMP-22 (Udaipur), FSRAMP-23 (Arbhavi), MSRAMP-25 (Hyderabad)	Mean disease score for BLSB (Udaipur), TLB (Arbhavi) and MSR (Hyderabad)	IC59 –IC63
13	FSRAMP-32 (Udaipur), FSRAMP-33 (Arbhavi), MSRAMP-35 (Hyderabad)	The mean disease score and percentage disease incidence (PDI) of trials	IC64 – IC66
14	BLSBIT-52 (Udaipur), DMIT-32 (Udaipur)	The mean disease score of trials	IC67
15	BLSBIT-12 (Ludhiana)	The mean disease score of trials	IC68
16	BLSBIT-33 (Dhaulakuan), TLBIT-11 or SCAT-1453 (Arbhavi)	The mean disease score of trials	IC69
17	FSRAMP-13 (Arbhavi) and MSRAMP-15 (Hyderabad)	The mean disease score and percentage disease incidence (PDI) of trials	IC70
18	SCAT-1457 (Arbhavi)	The mean disease score for TLB	IC71 –IC72

Executive Summary of ICAR-CIMMYT Technical Programme - 2014-15

As part of the ICAR-CIMMYT Technical Programme 2014-15, 61 trials were approved during 57th Annual Maize Workshop of All India Coordinated Maize Improvement Project held at MPUAT, Udaipur during April 21-23, 2014. Sixty-one trials were planned to conduct among 22 centres with an average of 2.7 trials per centre. Twenty centres comprises 15 AICRP on maize centres [Bajaura, Srinagar, Karnal, Ludhiana, Pantnagar, Ambikapur, Ranchi, Varanasi, Arbhavi, Hyderabad, Karimnagar, Kolhapur, Banswara, Godhra, Udaipur] and 7 cooperating centres [Barapani, Begusarai, Bhiloda, Delhi, Dharwad, Dhaulakuan, Midnapur]. The details of trials and location are given in the tabular form i.e. Summary [ICAR-CIMMYT Technical Programme - 2014-15]. The number of trials approved for different centres varies from 1 (Bajaura and Godra) to 7 (Udaipur) depending upon the resources available with the centre. During Kharif 2014, 42 trials among 18 centres and in Rabi 2014-15, 19 trials among 8 centres were planned to conduct. However, nine centres namely Srinagar, Bajaura, Dhaulakuan (zone-I), Ludhiana (zone-II), Begusarai (Zone-III), Arbhavi, Hyderabad (zone-IV), Udaipur and Godra (zone-V) together executed 26 trials (~62% of the approved trials), successfully during Kharif 2014. The reason for conducting less than the approved number of trials was non-receipt of the trial from CIMMYT by the centre. Among 26 trials, four trials were under optimum management conditions, 8 trials were under water logging conditions and the remaining 14 trials were under artificial infestation for different diseases [BLSB, MSR, FSR, TLB and DM]. In case of optimum management conditions, IET early duration yellow [VHTJ1310 at Srinagar and VHTJ138 at Bajaura] and white QPM hybrids [CAT1476 at Godra and Srinagar] were evaluated. Four different sets [CAT1431 (ABHT-29, ABHT112), CAT1432 (ADWUTC-19, ADWBCTC-114), CAT1433 (AWWTC15, AWWTC25), CAT1434 (EDWBCTC19, EDWBCTC210)] comprising advance stage early-medium maturity yellow hybrids were evaluated under water-logging condition at Begusarai. Screening for different diseases was undertaken under artificial infestation at hot-spot locations for respective disease. Fourteen trials of different diseases comprises five trials of TLB [FSRAMP-23, FSRAMP-33, FSRAMP-13, FSRAMP-13 and SCAT-1457 at Arbhavi], four trials of BLSB [BLSBAMP-22 and BLSBIT-52 at Udaipur; BLSBIT-12 at Ludhiana and BLSBIT-33 at Dhaulakuan], three trials of MSR [MSRAMP-25, MSRAMP-35 and MSRAMP-15 at Hyderabad], one each of FSR [FSRAMP-32 and DM [DMIT-32] at Udaipur. The results of all the above mentioned trials are presented in Table 1 to 18.

Brief Summary of ICAR-CIMMYT Technical Programme - 2014-15

S.No.	Description of evaluation Nursery/Trial	Ent x reps x rows	Srn J&K	Baj HP	Dhk HP	Bar MG	Ptn UK	Del DL	Krn HR	Lud PJ	Var UP	Bgs BH	Rnc JH	Mdn WB	Kol MH	Hyd TL	Kar TL	Arb KA	Dwd KA	Amb CH	Bld GJ	Gdr GJ	Bns RJ	Udp RJ	Total loc.	
Optimum management condition																										
1	CAT1416-Advance stage early-medium maturity yellow hybrids-Set 4	20 × 2 × 1									x									x						
2	CAT1417-Advance stage medium maturity yellow hybrids-Set 5	13 × 2 × 1									x				x	x							x			
3	CAT1419-Advance stage early-medium maturity yellow hybrids-Set 7	40 × 2 × 1											R							x						
4	CAT1418-Advance stage medium maturity yellow hybrids-Set 6	13 × 2 × 1														x										
5	CAT1475-IET of Early duration yellow hybrids	36 × 3 × 2	√	√		R												x							2	
6	CAT1476-IET of White QPM Hybrids	24 × 3 × 4	√																			√			2	
Water-logging condition																										
7	CAT1431-Advance stage early-medium maturity yellow hybrids-Set 4	20 × 2 × 1					x					√													1	
8	CAT1432-Advance stage medium maturity yellow hybrids-Set 5	13 × 2 × 1										√													1	
9	CAT1433-Advance stage medium maturity yellow hybrids-Set 6	13 × 2 × 1										√													1	
10	CAT1434-Advance stage early-medium maturity yellow hybrids-Set 7	40 × 2 × 1					x					√													1	
Drought condition																										
11	CAT1440-Advance stage early-medium maturity yellow hybrids-Set 4	20 × 2 × 1												x							R	R		R	1	
12	CAT1441-Advance stage medium maturity yellow hybrids-Set 5	13 × 2 × 1												x			R		R							
13	CAT1442-Advance stage medium maturity yellow hybrids-Set 6	13 × 2 × 1												x	x		R		R							
14	CAT1443-Advance stage early-medium maturity yellow hybrids-Set 7	40 × 2 × 1											R								R	R		R	1	

S.No.	Description of evaluation Nursery/Trial	Ent x reps x rows	Srn J&K	Baj HP	Dhk HP	Bar MG	Ptn UK	Del DL	Krn HR	Lud PJ	Var UP	Bgs BH	Rnc JH	Mdn WB	Kol MH	Hyd TL	Kar TL	Arb KA	Dwd KA	Amb CH	Blid GJ	Gdr GJ	Bns RJ	Udp RJ	Total loc.	
Cold																										
15	CAT1477-Test crosses with elite CIMMYT-Asia lines	30 × 2 × 2				R			R																	
16	CAT1478-Test crosses of elite CIMMYT-Asia lines with Mexican High Land lines	30 × 2 × 2				R			R																	
17	CAT1479-Advanced CIMMYT Africa lines	100 × 2 × 2				R				R																
Banded Leaf and Sheath Blight (BLSB)																										
18	CAT1446-Advanced stage CIMMYT Asia lines	420 × 2 × 1						x						x												
19	CAT1447-BC1F2 population of BLSB resistant/elite crosses	200 × 2 × 1								√														√		2
20	CAT1449-F5-6 lines derived from BLSB pedigree crosses	68 × 2 × 1			√		x	x	x																	1
Fusarium Stalk Rot (FSR)																										
21	CAT1451-Advanced stage CIMMYT Asia lines	420 × 2 × 1													x		√							√		2
Macrophomina Stalk Rot (MSR)																										
22	CAT1452-Advanced stage CIMMYT Asia lines	420 × 2 × 1														√										1
Turcicum Leaf Blight (TLB)																										
23	CAT1453-F2:3 population from TLB resistant/susceptible lines	600 × 2 × 1																√								1
24	CAT1457-S2-S4 lines for Turcicum evaluation	250 × 1 × 1																√			x		x			1
Downy Mildew (DM)																										
25	CAT1454-Advanced stage CIMMYT Asia lines	420 × 2 × 1																						x		
26	CAT1455-F6-7 lines derived from DM pedigree crosses	160 × 2 × 1																						x		
27	CAT1456-Lines derived from DM Syn pop.	115 × 2 × 1																						√		1
<p style="text-align: center;">√ = Trials conducted R = Proposed for rabi 2014-15 x = The shipment not reached Total number of locations 19</p>																										

Table 1. CAT1475 [VHTJ-1310 (Srinagar), VHTJ-138 (Bajaura)] - IET of Early duration yellow hybrids (Srinagar) **Table 2. CAT1476 - IET of White QPM Hybrids (Srinagar)**

Entry	Name	Pedigree	Entry	Name	Pedigree
1	VH132429	VH132429	1	VH142059	VH142059
2	VH112895	VH112895	2	VH142077	VH142077
3	VH111150	VH111150	3	VH064	VH064
4	VH112900	VH112900	4	VH142078	VH142078
5	VH1253	VH1253	5	VH142055	VH142055
6	VH1253	VH1253	6	VH142074	VH142074
7	VH101429	VH101429	7	VH142076	VH142076
8	VH1253	VH1253	8	VH142070	VH142070
9	VH101429	VH101429	9	VH142065	VH142065
10	VH111152	VH111152	10	VH142080	VH142080
11	VH101427	VH101427	11	VH142053	VH142053
12	VH101115	VH101115	12	VH142052	VH142052
13	VH101363	VH101363	13	VH142048	VH142048
14	VH1267	VH1267	14	VH142046	VH142046
15	VH132430	VH132430	15	VH142039	VH142039
16	VH132431	VH132431	16	VH142044	VH142044
17	VH132431	VH132431	17	VH142043	VH142043
18	VH1282	VH1282	18	VH051353	VH051353
19	VH122987	VH122987	19	VH051355	VH051355
20	VH132432	VH132432	20	VH142081	VH142081
21	VH132433	VH132433	21	VH142066	VH142066
22	VH112479	VH112479	22	VH051348	VH051348
23	VH101438	VH101438	23	VH053980	VH053980
24	VH112926	VH112926	24	VH142067	VH142067
25	VH101438	VH101438	25	VH142061	VH142061
26	VH101425	VH101425	26	VH072513	VH072513
27	VH121056	VH121056	27	VH142050	VH142050
28	VH12105	VH12105	28	VH142037	VH142037
29	VH12106	VH12106	29	VH142041	VH142041
30	VH101414	VH101414	30	VH142036	VH142036
31	VH112924	VH112924	31	VH142060	VH142060
32	VH112954	VH112954	32	VH06675	VH06675
33	VH112934	VH112934	33	VH142062	VH142062
34	VH12133	VH12133	34	VH142068	VH142068
35	30V92	30V92	35	VH142054	VH142054
36	CP838	CP838	36	Local Check1	Local Check1
37	900MGold	900MGold	37	Local Check2	Local Check2
38	PAC745	PAC745	38	Local Check3	Local Check3
39	KMH-7148	KMH-7148	39	Local Check4	Local Check4
40	HTMH5101	HTMH5101	40	Local Check5	Local Check5

Table 3. CAT1476 - IET of White QPM Hybrids (Godra)

Entry No.	Entry Name	Entry No.	Entry Name	Entry No.	Entry Name
1	SN193-2	51	V931-4	101	Z489-34
2	SN193-10	52	V931-7	102	Z489-38
3	SN193-12	53	V931-10	103	Z489-43
4	SN193-14	54	V931-12	104	Z489-47
5	SN193-17	55	V931-14	105	Z489-49
6	SN194-10	56	V931-16	106	Z489-61
7	SN194-12	57	V931-20	107	Z489-63
8	SN194-16	58	V931-24	108	Z489-69
9	SN194-20	59	V929-7	109	Z489-78
10	SN194-25	60	V929-22	110	Z489-87
11	SN194-32	61	V929-27	111	Z489-90
12	SN194-41	62	Z485-2	112	Z489-91
13	SN194-47	63	Z485-6	113	Z489-97
14	SN194-49	64	Z485-17	114	Z489-101
15	SN194-58	65	Z485-20	115	Z489-104
16	SN194-59	66	Z485-24	116	Z489-107
17	V938-2	67	Z485-35	117	Z489-115
18	V938-5	68	Z486-1	118	Z489-116
19	V938-12	69	Z486-4	119	Z489-124
20	V938-15	70	Z486-6	120	Z489-130
21	V938-28	71	Z487-1	121	Z489-138
22	V938-30	72	Z487-4	122	Z489-139
23	V938-35	73	Z487-7	123	Z489-140
24	V939-1	74	Z487-10	124	Z489-146
25	V939-2	75	Z488-1	125	Z489-147
26	V939-3	76	Z488-2	126	Z489-150
27	V939-4	77	Z488-5	127	Z489-152
28	V939-5	78	Z488-8	128	Z489-161
29	V939-6	79	Z491-16	129	Z489-162
30	V939-9	80	Z491-18	130	V937-1
31	V939-22	81	Z491-20	131	V937-3
32	V939-30	82	Z491-22		
33	V939-32	83	Z491-30		
34	V939-34	84	Z491-35		
35	V939-54	85	Z491-40		
36	V940-3	86	Z491-46		
37	V940-4	87	V941-2		
38	V940-5	88	V941-15		
39	V940-6	89	V941-48		
40	V940-9	90	V941-55		
41	V940-11	91	Z490-12		
42	V940-12	92	Z490-20		
43	V940-16	93	Z490-21		
44	V940-26	94	Z490-22		
45	V940-41	95	Z490-23		
46	V940-43	96	Z490-24		
47	V940-47	97	Z490-25		
48	V940-50	98	Z490-28		
49	V933-13	99	Z489-15		
50	V931-2	100	Z489-29		

IC3

Table 4. CAT1431 [ABHT-29] - Advance stage early-medium maturity yellow hybrids-Set 4

Entry	Name	Pedigree
1	1	G18SeqC5F236-1-2-1-2-1-B*5/CL02450
2	2	SO4YLWL-172-B-1-1-B-1-B*5/CL02450
3	3	CA14507-BB-2-BBB/CL02450
4	4	CML326-BB/CL02450
5	5	POB45c8-152-1-1-1-2-B*12/CL02450
6	6	(CTS013050/(AMATLC0HS167-1-1-1-2F/R)-B*5/Ki44)-B*9/CL02450
7	7	(CML474/S92145-2EV-7-3-B*5)-F2-58-1-B*8/CL02450
8	8	90[SPMATC4/P500(SELY)]#-B-4-2-B*5/CL02450
9	9	(CLQ-6601xCL-02843)-B-26-1-1-BB-1-B*4/CL02450
10	10	(CLQ-RCYQ14=(CML164*CML161)-B-1-1-1-BBBxP390Am/CMLc4F218-B-1-B)-B-4-2-BB-2-BBB/CL02450
11	11	CA00102/CA00106-B-12-2-B*4/CL02450
12	12	DTPWC9-F115-1-4-1-2-2-1-3-B*4/CL02450
13	13	DTPWC9-F55-2-1-1-2-3-1-2-BBB/CL02450
14	14	MAS[206/312]-23-2-1-1-B*7-1-B*4/CL02450
15	15	(CML161xCLQ-RCYQ31)-B-10-3-BB-3-B*6/CL02450
16	16	(CTS013008/AMATLC0HS71-1-1-2-1-1-1-B*5/Nei402020)-B*9/CL02450
17	17	CLRCW88-BB/CL02450
18	18	ZM621A-10-1-1-1-2-B*10-1-B*4/CL02450
19	19	INTA-F2-192-2-1-1-1-B*6-1-B*6/CL02450
20	20	[Ent320:92SEW2-77/[DMRESR-W]EarlySel-#I-2-4-B/CML386]-B-11-3-B-2-#-B*4-1-B*6/CL02450
21	21	CML440-B/CL02450
22	22	ZEWAac1F2-134-4-1-B-1-B*4-1-B-1-B*4/CL02450
23	Hytech	Local check-1 HTMH5401
24	CP seeds	Local check-1 CP818
25	Pioneer	Local check-1 Pio3396

Table 5. CAT1431 [ABHT-112] - Advance stage early-medium maturity yellow hybrids-Set 4

Entry	Name	Pedigree
1	ZH111948	WLCY2-7-1-2-1-5-B-2-3-1-2-2-B*4/CML451-BB
2	ZH116072	[SYN-USAB2/SYN-ELIB2]-12-1-1-2-B*5-1-BB/CML451-BB
3	ZH111948	WLCY2-7-1-2-1-5-B-2-2-2-2-1-B*5/CML451-BB
4	ZH114233	[CML327xCML287]F2-32-1-B*5-2-B*4/CML451-BB
5	VH11129	(CTS011004/EY-DMR-G-C5-S2-BB-3-1-B*4/Pop147)F2#89-3-2-B-1-B*8/CML451-BB
6	ZH137855	(CA14502/CA14509)-F2-14-1-BBB/CML451-BB
7	ZH114228	[CML226x[CATETODC1276/7619]-2-B-5-2-B]F2-10-1-B*8/CML451-BB
8	ZH137856	[SC/CML204//FR812]-X-30-2-3-2-1-B*4-1-BBB/CML451-BB
9	ZH116108	DTPWC9-F55-2-1-1-2-3-1-2-BBB/CML451-BB
10	ZH116120	NEI9008-BB/CML451-BB
11	ZH114252	KSX3601F2-4-4-3-2-1-B*6/CML451-BB
12	ZH137857	CA00370/(AMATLCOHS133-1-F/R)-1-3-1-2-5-B*10/CML451-BB
13	ZH114181	CLQG2508-BBB/CML451-BB
14	ZH137858	[[[K64R/G16SR]-39-1/[K64R/G16SR]-20-2]-5-1-2-B*4/CML390]-B-38-1-B-7-#-B*6-1/CML451-BB
15	ZH137859	CML344-BBB/CML451-BB
16	ZH137860	POP352CO-B-82-B*5-2-BBB/CML451-BB
17	ZH137313	CML326-1-BB/CML451-BB
18	ZH114229	P45c8-164-1-1-2-8-B*4-2-B*4/CML451-BB
19	ZH137861	(CTS013008/AMATLCOHS71-1-1-2-1-1-1-B*5/Nei402020)-B*6/CML451-BB
20	ZH116100	[G16SeqC1F47-2-1-2-1-B*5xP84c1F26-2-2-6-B-3-B]F25-2-3-1x[KILIMAST94A]-30/MSV-03-101-08-BB-1xP84c1F27-4-1-4-B-3-B]F2-1-2-2-4-2-BxCML161]-1-1-BB/CML451-BB
21	VH101490	POP351C0-HS274-1-1-B*4-2-BB/CML451-BB
22	ZH114234	[CML329xCML287]F2-38-1-B*8/CML451-BB
23	ZH137862	CML162-B*5/CML451-BB
24	ZH112007	CML449-BB/CML451-BB
25	ZH137863	SW5-10-B*5-2-BBB/CML451-BB
26	ZH111698	(CML165xKI45)-B-14-1-B*4-1-BBB/CML451-BB
27	ZH111697	(CLQ-6601xCL-02843)-B-26-1-1-BB-1-BBB/CML451-BB
28	ZH137864	DTPWC9-F24-2-3-1-3-2-1-2-B*4/CML451-BB
29	ZH114240	(CML226xCML295)-67-3-4-2-B*8/CML451-BB
30	ZH114233	[CML327xCML287]F2-32-1-B*5-1-B*4/CML451-BB
31	ZH114256	CA00326-6-B-2-BBB/CML451-BB
32	ZH116108	DTPWC9-F55-2-1-1-2-3-1-2-BBB/CML451-BB
33	ZH137865	DTPYC9-F102-4-5-1-1-BBB-B2-B/CML451-BB
34	ZH116078	DTPYC9-F46-1-7-1-2-1-2-2-BBB/CML451-BB
35	ZH114210	CML433-BBB/CML451-BB
36	VH11121	CML442-BBB/CML451-BB
37	ZH116126	[Ent52:92SEW1-2/[DMRESR-W]EarlySel-#L-2-1-B/CML386]-B-22-1-B-4-#-1-B*4-1-BB/CML451-BB
38	ZH137855	(CA14502/CA14509)-F2-14-1-BBB/CML451-BB
39	VH11129	(CTS011004/EY-DMR-G-C5-S2-BB-3-1-B*4/Pop147)F2#89-3-2-B-1-B*8/CML451-BB
40	ZH137856	[SC/CML204//FR812]-X-30-2-3-2-1-B*4-1-BBB/CML451-BB
41	ZH137866	[DTPYC9-F74-1-1-1-1-BBxDTPYC9-F65-2-2-1-1-BB]-B-3-4-B*5/CML451-BB
42	ZH116100	[G16SeqC1F47-2-1-2-1-B*5xP84c1F26-2-2-6-B-3-B]F25-2-3-1x[KILIMAST94A]-30/MSV-03-101-08-BB-1xP84c1F27-4-1-4-B-3-B]F2-1-2-2-4-2-BxCML161]-1-1-BB/CML451-BB
43	ZH137867	CLA91-B/CML451-BB
44	ZH12418	DTPYC9-F143-1-6-1-BBB/CML451-BB
45	ZH116098	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F14-1-1-1-B1/CML451-BB
46	ZH111662	Saracura-11-3-2-2-1-B*6/CML451-BB
47	ZH137864	DTPWC9-F24-2-3-1-3-2-1-2-B*4/CML451-BB
48	ZH137868	[[[NAW5867/P30SR]-40-1/[NAW5867/P30SR]-114-2]-16-2-2-B-2-B/CML395-6]-B-20-1-B-3-#[[BETASYN]BC1-3-1-1-#-B*6/CML451-BB
49	ZH116116	DTPYC9-F143-5-5-1-2-1-2-2-BBB/CML451-BB
50	ZH137869	CML68-BBB/CML451-BB
51	ZH111471	DTPYC9-F69-3-1-1-2-2-1-1-BB/CML451-BB

Table 5. CAT1431 [ABHT-112] - Advance stage early-medium maturity yellow hybrids-Set 4

Entry	Name	Pedigree
52	ZH137870	(CML165xCL-02843)-B-12-3-1-BB-1-BBB/CML451-BB
53	ZH111705	POOL16BNSEQC3F22x1-3-2-2-2-B*4/CML451-BB
54	ZH111458	DTPYC9-F103-5-4-1-2-1-2-2-BBB/CML451-BB
55	ZH112061	G18SeqC5F105-1-1-1-2-2-BBB/CML451-BB
56	ZH116079	DTPYC9-F46-3-6-1-2-2-1-1-BB-B1/CML451-BB
57	Hytech	Local check-1 HTMH5401
58	CP seeds	Local check-1 CP818
59	Syngenta	Local check-1 NK6240
60	Pioneer	Local check-1 Pio3396

IC6

Table 6. CAT1432 [ADWUTC-19] - Advance stage early-medium maturity yellow hybrids-Set 5

Entry	Name	Pedigree
1	ZH137799	(CML442-3/Bio9681-WLS-6-3-2-1-2-B*4)-BB-6-BB/CML451-BB
2	ZH137800	(CML442-3/Bio9681-WLS-6-3-2-1-2-B*4)-BB-10-BB/CML451-BB
3	ZH137801	(DTPWC9-F5-4-1-1-2-2-1-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-2-BB/CML451-BB
4	ZH137802	(CML442-3/Bio9681-WLS-6-3-2-1-2-B*4)-BB-8-BB/CML451-BB
5	ZH137803	(DTPWC9-F5-4-1-1-2-2-1-1-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-5-BB/CML451-BB
6	ZH137804	(DTPWC9-F5-4-1-1-2-2-1-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-8-BB/CML451-BB
7	ZH137805	(DTPWC9-F67-2-2-1-3-2-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-2-BB/CML451-BB
8	ZH137808	(DTPWC9-F5-4-1-1-2-2-1-1-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-1-BB/CML451-BB
9	ZH137809	(DTPWC9-F5-4-1-1-2-2-1-1-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-6-BB/CML451-BB
10	ZH137810	(DTPWC9-F5-4-1-1-2-2-1-1-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-3-BB/CML451-BB
11	ZH137811	(CML440-1/Bio9681-WLS-6-3-2-1-2-B*4)-BB-7-BB/CML451-BB
12	ZH137800	(CML442-3/Bio9681-WLS-6-3-2-1-2-B*4)-BB-10-BB/CML451-BB
13	ZH137804	(DTPWC9-F5-4-1-1-2-2-1-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-8-BB/CML451-BB
14	ZH137812	(DTPWC9-F5-4-1-1-2-2-1-1-B/WLS-F36-4-2-2-B)-BB-2-BB/CML451-BB
15	ZH137802	(CML442-3/Bio9681-WLS-6-3-2-1-2-B*4)-BB-8-BB/CML451-BB
16	ZH137813	(CML444-2/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-2-BB/CML451-BB
17	ZH137814	(DTPYC9-F46-3-6-1-2-2-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-1-BB/CML451-BB
18	ZH137815	(DTPWC9-F67-2-2-1-3-2-1-2-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-4-B1-B1/CML451-BB
19	ZH137815	(DTPWC9-F67-2-2-1-3-2-1-2-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-4-B1-B2/CML451-BB
20	ZH137815	(DTPWC9-F67-2-2-1-3-2-1-2-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-4-B2-B1/CML451-BB
21	ZH137815	(DTPWC9-F67-2-2-1-3-2-1-2-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-4-B2-B2/CML451-BB
22	ZH137816	(G18SeqC5F100-1-1-3-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-3-BB/CML451-BB
23	ZH137817	(DTPYC9-F69-3-1-1-2-2-1-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-5-BB/CML451-BB
24	ZH137818	(G18SeqC5F100-1-1-3-1-2-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-5-BB/CML451-BB
25	ZH137818	(DTPYC9-F38-4-3-1-3-2-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-7-BB/CML451-BB
26	ZH137819	(DTPYC9-F46-3-6-1-2-2-1-2-B/WLS-F36-4-2-2-B)-BB-6-BB/CML451-BB
27	ZH137819	(DTPYC9-F69-3-1-1-2-2-1-1-B/WLS-F36-4-2-2-B)-BB-6-BB/CML451-BB
28	ZH137820	(DTPYC9-F46-3-1-1-2-3-2-2-B/WLS-F36-4-2-2-B)-BB-4-BB/CML451-BB
29	ZH137821	(G18SeqC5F100-1-1-3-1-2-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-4-BB/CML451-BB
30	ZH137821	(DTPYC9-F38-4-3-1-3-2-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-8-BB/CML451-BB
31	ZH137822	(DTPYC9-F38-4-3-1-3-2-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-6-BB/CML451-BB
32	ZH137823	(DTPYC9-F46-3-1-1-2-3-2-2-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-6-BB/CML451-BB
33	ZH137824	(G18SeqC5F100-1-1-3-1-2-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-6-BB/CML451-BB
34	ZH137824	(DTPYC9-F69-3-1-1-2-2-1-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-3-BB/CML451-BB
35	ZH137825	(G18SeqC5F100-1-1-3-1-2-B/WLS-F36-4-2-2-B)-BB-4-BB/CML451-BB
36	ZH137825	(DTPWC9-F67-2-2-1-3-2-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-5-BB/CML451-BB
37	ZH137826	(DTPYC9-F46-3-6-1-2-2-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-14-B1-B1/CML451-BB
38	ZH137826	(DTPYC9-F46-3-6-1-2-2-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-14-B1-B2/CML451-BB
39	ZH137826	(DTPYC9-F46-3-6-1-2-2-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-14-B2-B1/CML451-BB
40	ZH137826	(DTPYC9-F46-3-6-1-2-2-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-14-B2-B2/CML451-BB
41	ZH137815	(DTPWC9-F67-2-2-1-3-2-1-2-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-4-BB/CML451-BB
42	ZH137827	(ZM523B-29-2-1-1-BBB-2/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-5-BB/CML451-BB
43	ZH137828	(G18SeqC5F105-1-1-1-2-3-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-10-BB/CML451-BB
44	ZH137829	(ZM621A-10-1-1-1-2-B*10-6/WLS-F36-4-2-2-B)-BB-1-BB/CML451-BB
45	ZH137830	(ZM621A-10-1-1-1-2-B*10-6/Bio9681-WLS-6-3-2-1-2-B*4)-BB-7-BB/CML451-BB
46	ZH137831	(ZM523B-29-2-1-1-BBB-2/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-7-B1-B1/CML451-BB
47	ZH137831	(ZM523B-29-2-1-1-BBB-2/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-7-B1-B2/CML451-BB
48	ZH137831	(ZM523B-29-2-1-1-BBB-2/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-7-B2-B1/CML451-BB
49	ZH137831	(ZM523B-29-2-1-1-BBB-2/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-7-B2-B2/CML451-BB
50	ZH137832	(G18SeqC5F19-1-2-1-2-2-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-5-BB/CML451-BB
51	ZH137833	(G18SeqC5F105-1-1-1-2-3-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-2-BB/CML451-BB
52	ZH137834	(ZM621A-10-1-1-1-2-B*10-6/Bio9681-WLS-6-3-2-1-2-B*4)-BB-1-BB/CML451-BB
53	ZH137832	(ZM621A-10-1-1-1-2-B*10-6/Bio9681-WLS-6-3-2-1-2-B*4)-BB-15-BB/CML451-BB
54	ZH137836	(G18SeqC5F19-1-2-1-2-2-B/WLS-F36-4-2-2-B)-BB-1-BB/CML451-BB

Table 6. CAT1432 [ADWUTC-19] - Advance stage early-medium maturity yellow hybrids-Set 5

Entry	Name	Pedigree
55	ZH137837	(ZM523B-29-2-1-1-BBB-2)/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-1-BB/CML451-BB
56	ZH137835	(G18SeqC5F19-1-2-1-2-3-B)/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-8-BB/CML451-BB
57	ZH137838	(G18SeqC5F19-1-2-1-2-3-B/WLS-F36-4-2-2-B)-BB-2-BB/CML451-BB
58	ZH137836	(G18SeqC5F19-1-2-1-2-3-B/WLS-F36-4-2-2-B)-BB-1-BB/CML451-BB
59	ZH137839	(G18SeqC5F19-1-2-1-2-3-B)/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-2-BB/CML451-BB
60	ZH137840	(G18SeqC5F76-2-2-1-1-1-B/WLS-F36-4-2-2-B)-BB-10-BB/CML451-BB
61	ZH137838	(G18SeqC5F19-1-2-1-2-3-B)/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-1-BB/CML451-BB
62	ZH137841	(G18SeqC5F19-1-2-1-2-3-B)/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-7-BB/CML451-BB
63	ZH137842	(G18SeqC5F105-1-1-1-2-3-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-1-BB/CML451-BB
64	ZH137840	(ZM621A-10-1-1-1-2-B*10-6)/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-14-BB/CML451-BB
65	ZH137843	(ZM621A-10-1-1-1-2-B*10-6/Bio9681-WLS-6-3-2-1-2-B*4)-BB-3-BB/CML451-BB
66	ZH137844	(DTPWC9-F5-4-1-1-2-2-1-1-B/WLS-F36-4-2-2-B)-BB-6-BB/CML451-BB
67	ZH137845	(DTPWC9-F67-2-2-1-3-2-1-2-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-6-BB/CML451-BB
68	ZH137844	(DTPWC9-F5-4-1-1-2-2-1-1-B/WLS-F36-4-2-2-B)-BB-6-BB/CML451-BB
69	ZH137846	(G18SeqC5F76-2-2-1-1-1-B)/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-1-B1-B1/CML451-BB
70	ZH137846	(G18SeqC5F76-2-2-1-1-1-B)/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-1-B2-B1/CML451-BB
71	ZH137846	(G18SeqC5F76-2-2-1-1-1-B)/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-1-B2-B2/CML451-BB
72	ZH137847	(DTPWC9-F5-4-1-1-2-2-1-1-B)/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-5-BB/CML451-BB
73	ZH137848	(DTPWC9-F24-4-3-1-2-1-2-B)/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-5-BB/CML451-BB
74	ZH137846	(CML442-3/Bio9681-WLS-6-3-2-1-2-B*4)-BB-1-BB/CML451-BB
75	ZH137849	(DTPWC9-F2-3-1-1-2-1-2-1-B/WLS-F36-4-2-2-B)-BB-3-BB/CML451-BB
76	ZH137851	(ZM621A-10-1-1-1-2-B*10-6)/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-9-BB/CML451-BB
77	ZH137852	(ZM523B-29-2-1-1-BBB-2)/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-8-BB/CML451-BB
78	ZH137853	(CML440-1/Bio9681-WLS-6-3-2-1-2-B*4)-BB-5-BB/CML451-BB
79	ZH137851	(G18SeqC5F105-1-1-1-2-3-B)/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-9-BB/CML451-BB
80	ZH137852	(ZM621A-10-1-1-1-2-B*10-6)/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-3-BB/CML451-BB
81	ZH137852	(DTPYC9-F46-3-6-1-2-2-1-2-B)/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-5-BB/CML451-BB
82	HTMH5401	Local check-1 HTMH5401
83	NK6240	Local check-2 NK6260
84	CP818	Local check 3 CP818
85	DKC8101	Local check 4 DKC8101

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Table 7. CAT1432 [ADWBCTC-114] - Advance stage early-medium maturity yellow hybrids-Set 5

Entry	Name	Pedigree
1	ZH12211	CML444-2/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1-B-1-BB/CML451-BB
2	ZH12198	G18SeqC5F100-1-1-3-1-2-B/WLS-F36-4-2-2-B/WLS-F36-4-2-2-BB-1-BB/CML451-BB
3	ZH12201	DTPWC9-F38-4-3-1-3-2-1-2-B/WLS-F36-4-2-2-B/WLS-F36-4-2-2-BB-1-BB/CML451-BB
4	ZH12207	DTPWC9-F2-3-1-1-2-1-2-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1-B-1-BB/CML451-BB
5	ZH12204	ZM621A-10-1-1-1-2-B*10-6/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1-B-1-BB/CML451-BB
6	ZH12200	DTPWC9-F2-3-1-1-2-1-2-1-B/WLS-F36-4-2-2-B/WLS-F36-4-2-2-BB-1-BB/CML451-BB
7	ZH12198	G18SeqC5F100-1-1-3-1-2-B/WLS-F36-4-2-2-B/WLS-F36-4-2-2-BB-1-BB/CML451-BB
8	ZH12202	ZM621A-10-1-1-1-2-B*10-6/WLS-F36-4-2-2-B/WLS-F36-4-2-2-BB-1-BB/CML451-BB
9	ZH12207	DTPWC9-F2-3-1-1-2-1-2-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1-B-1-BB/CML451-BB
10	ZH12210	CML442-3/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1-B-1-BB/CML451-BB
11	ZH12199	DTPWC9-F16-1-1-3-2-2-1-B/WLS-F36-4-2-2-B/WLS-F36-4-2-2-BB-1-BB/CML451-BB
12	ZH12203	G18SeqC5F100-1-1-3-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1-B-1-BB/CML451-BB
13	ZH12205	G18SeqC5F76-2-2-1-1-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1-B-1-BB/CML451-BB
14	ZH12203	G18SeqC5F100-1-1-3-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1-B-1-BB/CML451-BB
15	ZH12204	ZM621A-10-1-1-1-2-B*10-6/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1-B-1-BB/CML451-BB
16	Local check1 HTMH5401	Local check1 HTMH5401
17	Local check2 CP818	Local check2 CP818
18	Local check3 NK6240	Local check3 NK6240
19	Local check4 Pio3396	Local check4 Pio3396
20	Local check5 DKC8101	Local check5 DKC8101

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Table 8. CAT1433 [AWWTC-15] - Advance stage early-medium maturity yellow hybrids-Set 6

Entry	Name	Pedigree
1	ZH141371	(Jlocal-18-6-2-3-3-1-B*4/WLS-F287-1-3-1-B-1-B)-B*5/CML451
2	ZH141372	(WLS-F102-3-2-1-B-1-B/Saracura-11-3-2-2-1-B*4)-B*5/CML451
3	ZH141373	(SO4YLWL-172-B-1-1-B-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-B)-B*4-B1/CML451
4	ZH141374	(SO4YLWL-172-B-1-1-B-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-B)-B*4-B2/CML451
5	ZH141375	((CML165xCL-02839)-B-22-1-1-BB-1-B/WLS-F102-3-2-1-B-1-B)-B*5/CML451
6	ZH141376	WLS-F183-3-2-2-B-2-B/SO4YLWL-172-B-1-1-B-1-B*5-B1/CML451
7	ZH141377	WLS-F183-3-2-2-B-2-B/SO4YLWL-172-B-1-1-B-1-B*5-B2/CML451
8	ZH141378	P31C4S5B-23-##-4-B*7-4-B/P31C4S5B-23-##-6-B*6-3-B-2-B*5-B1/CML451
9	ZH141379	P31C4S5B-23-##-4-B*7-4-B/P31C4S5B-23-##-6-B*6-3-B-2-B*5-B2/CML451
10	ZH141380	(CML165xCL-02839)-B-22-1-1-BB-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-B*6/CML451
11	ZH141381	(CML165xCL-02839)-B-22-1-1-BB-1-B/SO4YLWL-172-B-1-1-B-1-B*5-B1/CML451
12	ZH141382	(CML165xCL-02839)-B-22-1-1-BB-1-B/SO4YLWL-172-B-1-1-B-1-B*5-B2/CML451
13	ZH141383	CA03130-BB-2-B-1-B/CA00314-2-B-3-B*6/CML451
14	ZH141384	WLS-F191-2-1-1-B-1-B/Jlocal-16-2-1-1-3-1-B*8-B1/CML451
15	ZH141385	WLS-F191-2-1-1-B-1-B/Jlocal-16-2-1-1-3-1-B*8-B2/CML451
16	ZH141386	WLS-F73-3-2-1-B-1-B/Saracura-11-3-2-2-1-B*9/CML451
17	ZH141387	WLS-F102-3-2-1-B-1-B/SO4YLWL-96-B-1-1-B-1-B*6/CML451
18	ZH141388	SO4YLWL-172-B-1-1-B-1-B/Saracura-11-3-2-2-1-B*8-B1/CML451
19	ZH141389	SO4YLWL-172-B-1-1-B-1-B/Saracura-11-3-2-2-1-B*8-B2/CML451
20	ZH141390	WLS-F73-3-2-1-B-1-B/Saracura-11-3-2-2-1-B*8-B1/CML451
21	ZH141391	WLS-F73-3-2-1-B-1-B/Saracura-11-3-2-2-1-B*8-B2/CML451
22	ZH141392	WLS-F102-3-2-1-B-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-B*5-B1/CML451
23	ZH141393	WLS-F102-3-2-1-B-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-B*5-B2/CML451
24	ZH141394	WLS-F102-3-2-1-B-1-B/SO4YLWL-96-B-1-1-B-1-B*5-B1/CML451
25	ZH141395	WLS-F102-3-2-1-B-1-B/SO4YLWL-96-B-1-1-B-1-B*5-B2/CML451
26	ZH141396	P31C4S5B-23-##-6-B*7-6-B-2-B/Pop61C1QPMTEYF-40-1-3-2-1-B-1-B*6/CML451
27	ZH141397	WLS-F191-2-1-1-B-1-B/CML226-2-3-2-1-B*9-B1/CML451
28	ZH141398	WLS-F191-2-1-1-B-1-B/CML226-2-3-2-1-B*9-B2/CML451
29	ZH141399	(CLQ-RCYQ28xP390Am/CMLc4F218-B-1-B)-B-43-1-BB-2-B/(CML165xKI45)-B-14-1-B*4-1-B*5-B1/CML451
30	ZH141400	(CLQ-RCYQ28xP390Am/CMLc4F218-B-1-B)-B-43-1-BB-2-B/(CML165xKI45)-B-14-1-B*4-1-B*5-B2/CML451
31	ZH141401	WLS-F102-3-2-1-B-1-B/WLS-F287-1-3-1-B-1-B*5-B1/CML451
32	ZH141402	WLS-F102-3-2-1-B-1-B/WLS-F287-1-3-1-B-1-B*5-B2/CML451
33	ZH141403	P31C4S5B-23-##-4-B*7-4-B/P31C4S5B-23-##-6-B*7-6-B-2-B*5-B1/CML451
34	ZH141404	P31C4S5B-23-##-4-B*7-4-B/P31C4S5B-23-##-6-B*7-6-B-2-B*5-B2/CML451
35	ZH141405	(CML165xCL-02839)-B-22-1-1-BB-1-B/Pop61C1QPMTEYF-40-1-3-2-1-B-1-B*5-B1/CML451
36	ZH141406	(CML165xCL-02839)-B-22-1-1-BB-1-B/Pop61C1QPMTEYF-40-1-3-2-1-B-1-B*5-B2/CML451
37	ZH141407	(CML165xCL-02839)-B-22-1-1-BB-1-B/(CML161xCLQ-RCYQ31)-B-12-2-BB-2-B*5-B1/CML451
38	ZH141408	(CML165xCL-02839)-B-22-1-1-BB-1-B/(CML161xCLQ-RCYQ31)-B-12-2-BB-2-B*5-B2/CML451
39	ZH141409	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F240-1-1-1-B*4-B1/CML451
40	ZH141410	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F240-1-1-1-B*4-B2/CML451
41	ZH141411	WLS-F102-3-2-1-B-1-B/SO4YLWL-112-B-1-2-B-1-B*5-B1/CML451
42	ZH141412	WLS-F102-3-2-1-B-1-B/SO4YLWL-112-B-1-2-B-1-B*5-B2/CML451
43	ZH141413	WLS-F191-2-1-1-B-1-B/SO4YLWL-172-B-1-1-B-1-B*5-B1/CML451
44	ZH141414	WLS-F191-2-1-1-B-1-B/SO4YLWL-172-B-1-1-B-1-B*5-B2/CML451
45	ZH141415	WLS-F212-3-2-1-B-2-B/AMATLCOHS44-5-2-2-1-1-B*8-B1/CML451
46	ZH141416	WLS-F212-3-2-1-B-2-B/AMATLCOHS44-5-2-2-1-1-B*8-B2/CML451
47	ZH141417	CA14701-BB-1-B/P31C4S5B-23-##-6-B*6-1-7-2-B*5-B1/CML451
48	ZH141418	CA14701-BB-1-B/P31C4S5B-23-##-6-B*6-1-7-2-B*5-B2/CML451
49	ZH141419	Jlocal-18-6-2-3-3-1-B*4/(CML165xCL-02839)-B-22-1-1-BB-1-B*6/CML451
50	ZH141420	P31C4S5B-23-##-4-B*7-4-B/P31C4S5B-23-##-6-B*7-6-B-2-B*6/CML451
51	ZH141421	((CML165xCL-02839)-B-22-1-1-BB-1-B/SO4YLWL-172-B-1-1-B-1-B)-B*4/CML451
52	ZH141422	(WLS-F191-2-1-1-B-1-B/SO4YLWL-96-B-1-1-B-1-B)-B*4/CML451

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Table 8. CAT1433 [AWWTC-15] - Advance stage early-medium maturity yellow hybrids-Set 6

Entry	Name	Pedigree
53	ZH141423	(WLS-F90-2-1-3-B-3-B/SO4YLWL-96-B-1-1-B-1-B)-B*4/CML451
54	ZH141424	(P31C4S5B-23-##-6-B*7-6-B-2-B/Pop61C1QPMTEYF-40-1-3-2-1-B-1-B)-B*4/CML451
55	ZH141425	(MAS[206/312]-23-2-1-1-BBB/[BETASYN]BC1-11-3-1-BBB/[[[NAW5867/P30SR]-43-2/[NAW5867/P30SR]-114-1]-9-3-3-B-1-B/CML395-1]-B-13-1-B-4-#[[BETASYN]BC1-8-1-1-1-BB)-BBB-B1/CML451
56	ZH141426	(MAS[206/312]-23-2-1-1-BBB/[BETASYN]BC1-11-3-1-BBB/[[[NAW5867/P30SR]-43-2/[NAW5867/P30SR]-114-1]-9-3-3-B-1-B/CML395-1]-B-13-1-B-4-#[[BETASYN]BC1-8-1-1-1-BB)-BBB-B2/CML451
57	ZH141427	(CML226-2-3-2-1-B*5/P31C4S5B-23-##-6-B*7-6-B-2-B)-B*4-B1/CML451
58	ZH141428	(CML226-2-3-2-1-B*5/P31C4S5B-23-##-6-B*7-6-B-2-B)-B*4-B2/CML451
59	ZH141429	(SO4YLWL-172-B-1-1-B-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-B)-B*5/CML451
60	ZH141430	(Jlocal-18-6-2-3-3-1-B*4/WLS-F287-1-3-1-B-1-B)-B*4-B1/CML451
61	ZH141431	(Jlocal-18-6-2-3-3-1-B*4/WLS-F287-1-3-1-B-1-B)-B*4-B2/CML451
62	ZH141432	(G33QC25MH103-31-5-1-B*6-1-BBB/CA14709-B-2-B-1-BB)-BBB-B1/CML451
63	ZH141433	(G33QC25MH103-31-5-1-B*6-1-BBB/CA14709-B-2-B-1-BB)-BBB-B2/CML451
64	ZH141434	CA14514-1-B-1-B/P31C4S5B-23-##-6-B*7-6-B-2-B*5-B1/CML451
65	ZH141435	CA14514-1-B-1-B/P31C4S5B-23-##-6-B*7-6-B-2-B*5-B2/CML451
66	ZH141436	(WLS-F90-2-1-3-B-3-B/SO4YLWL-96-B-1-1-B-1-B)-BBB-B1/CML451
67	ZH141437	(WLS-F90-2-1-3-B-3-B/SO4YLWL-96-B-1-1-B-1-B)-BBB-B2/CML451
68	ZH141438	WLS-F102-3-2-1-B-1-B/WLS-F287-1-3-1-B-1-B*6/CML451
69	ZH141439	P31C4S5B-6-*-*3-1-B*8-3-B/P31C4S5B-23-##-6-B*7-3-B-2-B*5-B1/CML451
70	ZH141440	P31C4S5B-6-*-*3-1-B*8-3-B/P31C4S5B-23-##-6-B*7-3-B-2-B*5-B2/CML451
71	ZH141441	CA03130-BB-2-B-1-B/P31C4S5B-23-##-6-B*6-1-7-2-B*5-B1/CML451
72	ZH141442	CA03130-BB-2-B-1-B/P31C4S5B-23-##-6-B*6-1-7-2-B*5-B2/CML451
73	ZH141443	LaPostaSeqC7-F64-2-4-1-2-B*5/DTPWC9-F18-1-2-1-1-2-2-2-B*6-B1/CML451
74	ZH141444	LaPostaSeqC7-F64-2-4-1-2-B*5/DTPWC9-F18-1-2-1-1-2-2-2-B*6-B2/CML451
75	ZH141445	DTPYC9-F134-2-1-2-1-2-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1-B-1-BB-B1/CML451
76	ZH141446	DTPYC9-F134-2-1-2-1-2-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1-B-1-BB-B2/CML451
77	ZH141447	(HK1-34-(1+2)-1-1-B1-B/Pop61C1QPMTEYF-40-1-3-2-1-B-1-B)-BBB-B1/CML451
78	ZH141448	(HK1-34-(1+2)-1-1-B1-B/Pop61C1QPMTEYF-40-1-3-2-1-B-1-B)-BBB-B2/CML451
79	ZH141449	(Jlocal-18-6-2-3-3-1-B*4/(CML165xCL-02839)-B-22-1-1-BB-1-B)-B*5/CML451
80	ZH141450	CML442-3/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1-B-1-BB-B1/CML451
81	ZH141451	CML442-3/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1-B-1-BB-B2/CML451
82	ZH141452	(CML165xCL-02839)-B-22-1-1-BB-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-B*5-B1/CML451
83	ZH141453	(CML165xCL-02839)-B-22-1-1-BB-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-B*5-B2/CML451
84	ZH141454	((CML165xCL-02839)-B-22-1-1-BB-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-B)-B*4-B1/CML451
85	ZH141455	((CML165xCL-02839)-B-22-1-1-BB-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-B)-B*4-B2/CML451
86	ZH141456	CML444-2/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1-B-1-BB-BBB/CML451
87	ZH141457	(G33QC25MH103-31-5-1-B*6-1-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B)-BBB-B1/CML451
88	ZH141458	(DTPWC9-F31-1-1-3-1-2-1-3-BBB/LaPostaSeqC7-F33-1-1-2-2-B*6)-B*4/CML451
89	Pioneer	Pioneer
90	Monsanto	Monsanto

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Table 9. CAT1433 [AWWTC-25] - Advance stage early-medium maturity yellow hybrids-Set 6

Entry	Name	Pedigree
1	ZH141459	(Jlocal-18-6-2-3-3-1-B*4/WLS-F287-1-3-1-B-1-B)-B*5/CL02450
2	ZH141460	(WLS-F102-3-2-1-B-1-B/Saracura-11-3-2-2-1-B*4)-B*5/CL02450
3	ZH141461	(SO4YLWL-172-B-1-1-B-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-B)-B*4-B1/CL02450
4	ZH141462	(SO4YLWL-172-B-1-1-B-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-B)-B*4-B2/CL02450
5	ZH141463	((CML165xCL-02839)-B-22-1-1-BB-1-B/WLS-F102-3-2-1-B-1-B)-B*5/CL02450
6	ZH141464	WLS-F183-3-2-2-B-2-B/SO4YLWL-172-B-1-1-B-1-B*5-B1/CL02450
7	ZH141465	WLS-F183-3-2-2-B-2-B/SO4YLWL-172-B-1-1-B-1-B*5-B2/CL02450
8	ZH141466	P31C4S5B-23-##-4-B*7-4-B/P31C4S5B-23-##-6-B*6-3-B-2-B*5-B1/CL02450
9	ZH141467	P31C4S5B-23-##-4-B*7-4-B/P31C4S5B-23-##-6-B*6-3-B-2-B*5-B2/CL02450
10	ZH141468	(CML165xCL-02839)-B-22-1-1-BB-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-B*6/CL02450
11	ZH141469	(CML165xCL-02839)-B-22-1-1-BB-1-B/SO4YLWL-172-B-1-1-B-1-B*5-B1/CL02450
12	ZH141470	(CML165xCL-02839)-B-22-1-1-BB-1-B/SO4YLWL-172-B-1-1-B-1-B*5-B2/CL02450
13	ZH141471	CA03130-BB-2-B-1-B/CA00314-2-B-3-B*6/CL02450
14	ZH141472	WLS-F191-2-1-1-B-1-B/Jlocal-16-2-1-1-3-1-B*8-B1/CL02450
15	ZH141473	WLS-F191-2-1-1-B-1-B/Jlocal-16-2-1-1-3-1-B*8-B2/CL02450
16	ZH141474	WLS-F73-3-2-1-B-1-B/Saracura-11-3-2-2-1-B*9/CL02450
17	ZH141475	WLS-F102-3-2-1-B-1-B/SO4YLWL-96-B-1-1-B-1-B*6/CL02450
18	ZH141476	SO4YLWL-172-B-1-1-B-1-B/Saracura-11-3-2-2-1-B*8-B1/CL02450
19	ZH141477	SO4YLWL-172-B-1-1-B-1-B/Saracura-11-3-2-2-1-B*8-B2/CL02450
20	ZH141478	WLS-F73-3-2-1-B-1-B/Saracura-11-3-2-2-1-B*8-B1/CL02450
21	ZH141480	WLS-F102-3-2-1-B-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-B*5-B1/CL02450
22	ZH141481	WLS-F102-3-2-1-B-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-B*5-B2/CL02450
23	ZH141482	WLS-F102-3-2-1-B-1-B/SO4YLWL-96-B-1-1-B-1-B*5-B1/CL02450
24	ZH141483	WLS-F102-3-2-1-B-1-B/SO4YLWL-96-B-1-1-B-1-B*5-B2/CL02450
25	ZH141484	P31C4S5B-23-##-6-B*7-6-B-2-B/Pop61C1QPMTEYF-40-1-3-2-1-B-1-B*6/CL02450
26	ZH141485	WLS-F191-2-1-1-B-1-B/CML226-2-3-2-1-B*9-B1/CL02450
27	ZH141486	WLS-F191-2-1-1-B-1-B/CML226-2-3-2-1-B*9-B2/CL02450
28	ZH141487	(CLQ-RCYQ28xP390Am/CMLc4F218-B-1-B)-B-43-1-BB-2-B/(CML165xKI45)-B-14-1-B*4-1-B*5-B1/CL02450
29	ZH141488	(CLQ-RCYQ28xP390Am/CMLc4F218-B-1-B)-B-43-1-BB-2-B/(CML165xKI45)-B-14-1-B*4-1-B*5-B2/CL02450
30	ZH141490	WLS-F102-3-2-1-B-1-B/WLS-F287-1-3-1-B-1-B*5-B2/CL02450
31	ZH141491	P31C4S5B-23-##-4-B*7-4-B/P31C4S5B-23-##-6-B*7-6-B-2-B*5-B1/CL02450
32	ZH141492	P31C4S5B-23-##-4-B*7-4-B/P31C4S5B-23-##-6-B*7-6-B-2-B*5-B2/CL02450
33	ZH141493	(CML165xCL-02839)-B-22-1-1-BB-1-B/Pop61C1QPMTEYF-40-1-3-2-1-B-1-B*5-B1/CL02450
34	ZH141494	(CML165xCL-02839)-B-22-1-1-BB-1-B/Pop61C1QPMTEYF-40-1-3-2-1-B-1-B*5-B2/CL02450
35	ZH141495	(CML165xCL-02839)-B-22-1-1-BB-1-B/(CML161xCLQ-RCYQ31)-B-12-2-BB-2-B*5-B1/CL02450
36	ZH141496	(CML165xCL-02839)-B-22-1-1-BB-1-B/(CML161xCLQ-RCYQ31)-B-12-2-BB-2-B*5-B2/CL02450
37	ZH141497	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F240-1-1-1-B*4-B1/CL02450
38	ZH141498	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F240-1-1-1-B*4-B2/CL02450
39	ZH141499	WLS-F102-3-2-1-B-1-B/SO4YLWL-112-B-1-2-B-1-B*5-B1/CL02450
40	ZH141500	WLS-F102-3-2-1-B-1-B/SO4YLWL-112-B-1-2-B-1-B*5-B2/CL02450
41	ZH141501	WLS-F191-2-1-1-B-1-B/SO4YLWL-172-B-1-1-B-1-B*5-B1/CL02450
42	ZH141502	WLS-F191-2-1-1-B-1-B/SO4YLWL-172-B-1-1-B-1-B*5-B2/CL02450
43	ZH141503	WLS-F212-3-2-1-B-2-B/AMATLCOHS44-5-2-2-1-1-B*8-B1/CL02450
44	ZH141504	WLS-F212-3-2-1-B-2-B/AMATLCOHS44-5-2-2-1-1-B*8-B2/CL02450
45	ZH141505	CA14701-BB-1-B/P31C4S5B-23-##-6-B*6-1-7-2-B*5-B1/CL02450
46	ZH141506	CA14701-BB-1-B/P31C4S5B-23-##-6-B*6-1-7-2-B*5-B2/CL02450
47	ZH141507	Jlocal-18-6-2-3-3-1-B*4/(CML165xCL-02839)-B-22-1-1-BB-1-B*6/CL02450
48	ZH141508	P31C4S5B-23-##-4-B*7-4-B/P31C4S5B-23-##-6-B*7-6-B-2-B*6/CL02450
49	ZH141509	((CML165xCL-02839)-B-22-1-1-BB-1-B/SO4YLWL-172-B-1-1-B-1-B)-B*4/CL02450
50	ZH141510	(WLS-F191-2-1-1-B-1-B/SO4YLWL-96-B-1-1-B-1-B)-B*4/CL02450
51	ZH141511	(WLS-F90-2-1-3-B-3-B/SO4YLWL-96-B-1-1-B-1-B)-B*4/CL02450
52	ZH141512	(P31C4S5B-23-##-6-B*7-6-B-2-B/Pop61C1QPMTEYF-40-1-3-2-1-B-1-B)-B*4/CL02450

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Table 9. CAT1433 [AWWTC-25] - Advance stage early-medium maturity yellow hybrids-Set 6

Entry	Name	Pedigree
53	ZH141513	(MAS[206/312]-23-2-1-1-BBB/[BETASYN]BC1-11-3-1-BBB/[[[NAW5867/P30SR]-43-2[NAW5867/P30SR]-114-1]-9-3-3-B-1-B/CML395-1]-B-13-1-B-4-#[[BETASYN]BC1-8-1-1-1-BB)-BBB-B1/CL02450
54	ZH141515	(CML226-2-3-2-1-B*5/P31C4S5B-23-##-6-B*7-6-B-2-B)-B*4-B1/CL02450
55	ZH141516	(CML226-2-3-2-1-B*5/P31C4S5B-23-##-6-B*7-6-B-2-B)-B*4-B2/CL02450
56	ZH141517	(SO4YLWL-172-B-1-1-B-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-B)-B*5/CL02450
57	ZH141518	(Jlocal-18-6-2-3-3-1-B*4/WLS-F287-1-3-1-B-1-B)-B*4-B1/CL02450
58	ZH141519	(Jlocal-18-6-2-3-3-1-B*4/WLS-F287-1-3-1-B-1-B)-B*4-B2/CL02450
59	ZH141520	(G33QC25MH103-31-5-1-B*6-1-BBB/CA14709-B-2-B-1-BB)-BBB-B1/CL02450
60	ZH141521	(G33QC25MH103-31-5-1-B*6-1-BBB/CA14709-B-2-B-1-BB)-BBB-B2/CL02450
61	ZH141522	CA14514-1-B-1-B/P31C4S5B-23-##-6-B*7-6-B-2-B*5-B1/CL02450
62	ZH141523	CA14514-1-B-1-B/P31C4S5B-23-##-6-B*7-6-B-2-B*5-B2/CL02450
63	ZH141524	(WLS-F90-2-1-3-B-3-B/SO4YLWL-96-B-1-1-B-1-B)-BBB-B1/CL02450
64	ZH141525	(WLS-F90-2-1-3-B-3-B/SO4YLWL-96-B-1-1-B-1-B)-BBB-B2/CL02450
65	ZH141526	WLS-F102-3-2-1-B-1-B/WLS-F287-1-3-1-B-1-B*6/CL02450
66	ZH141527	P31C4S5B-6-*3-1-B*8-3-B/P31C4S5B-23-##-6-B*7-3-B-2-B*5-B1/CL02450
67	ZH141528	P31C4S5B-6-*3-1-B*8-3-B/P31C4S5B-23-##-6-B*7-3-B-2-B*5-B2/CL02450
68	ZH141529	CA03130-BB-2-B-1-B/P31C4S5B-23-##-6-B*6-1-7-2-B*5-B1/CL02450
69	ZH141530	CA03130-BB-2-B-1-B/P31C4S5B-23-##-6-B*6-1-7-2-B*5-B2/CL02450
70	ZH141531	LaPostaSeqC7-F64-2-4-1-2-B*5/DTPWC9-F18-1-2-1-1-2-2-2-B*6-B1/CL02450
71	ZH141532	LaPostaSeqC7-F64-2-4-1-2-B*5/DTPWC9-F18-1-2-1-1-2-2-2-B*6-B2/CL02450
72	ZH141533	DTPYC9-F134-2-1-2-1-2-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1-B-1-BB-B1/CL02450
73	ZH141534	DTPYC9-F134-2-1-2-1-2-1-2-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1-B-1-BB-B2/CL02450
74	ZH141535	(HKI-34-(1+2)-1-1-B1-B/Pop61C1QPMTEYF-40-1-3-2-1-B-1-B)-BBB-B1/CL02450
75	ZH141536	(HKI-34-(1+2)-1-1-B1-B/Pop61C1QPMTEYF-40-1-3-2-1-B-1-B)-BBB-B2/CL02450
76	ZH141537	(Jlocal-18-6-2-3-3-1-B*4/(CML165xCL-02839)-B-22-1-1-BB-1-B)-B*5/CL02450
77	ZH141538	CML442-3/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1-B-1-BB-B1/CL02450
78	ZH141539	CML442-3/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1-B-1-BB-B2/CL02450
79	ZH141540	(CML165xCL-02839)-B-22-1-1-BB-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-B*5-B1/CL02450
80	ZH141541	(CML165xCL-02839)-B-22-1-1-BB-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-B*5-B2/CL02450
81	ZH141542	((CML165xCL-02839)-B-22-1-1-BB-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-B)-B*4-B1/CL02450
82	ZH141543	((CML165xCL-02839)-B-22-1-1-BB-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-B)-B*4-B2/CL02450
83	ZH141544	CML444-2/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1-B-1-BB-B1/CL02450
84	ZH141545	(G33QC25MH103-31-5-1-B*6-1-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B)-BBB-B1/CL02450
85	ZH141546	(DTPWC9-F31-1-1-3-1-2-1-3-BBB/LaPostaSeqC7-F33-1-1-2-2-B*6)-B*4/CL02450
86	Pioneer	Pioneer
87	Monsanto	Monsanto
88	Hytech	Hytech
89	CP Seeds	CP Seeds
90	Pioneer	Pioneer

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Table 10. CAT1434 [EDWBCTC-19] - Advance stage early-medium maturity yellow hybrids-Set 7

Entry	Name	Pedigree
1	ZH137750	((POOL16BNSEQC3F37x3-2-2-3-2-BBB/DTPWC9-F2-3-1-1-2-1-2-1-BBB)//(POOL16BNSEQC3F37x3-2-2-3-2-B*4))-B-10-B/CML451-BB
2	ZH137751	((POOL16BNSEQC3F37x3-2-2-3-2-BBB/DTPWC9-F2-3-1-1-2-1-2-1-BBB)//(POOL16BNSEQC3F37x3-2-2-3-2-B*4))-B-14-B/CML451-BB
3	ZH137752	((POOL16BNSEQC3F37x3-2-2-3-2-BBB/DTPWC9-F2-3-1-1-2-1-2-1-BBB)//(POOL16BNSEQC3F37x3-2-2-3-2-B*4))-B-16-B/CML451-BB
4	ZH137753	((DTPWC9-F115-1-4-1-2-2-1-3-BBB/LaPostaSeqC7-F33-1-1-2-2-B*6)//(DTPWC9-F115-1-4-1-2-2-1-3-B*4))-B-4-B/CML451-BB
5	ZH137754	((DTPWC9-F67-2-2-1-3-2-1-2-BBB/LaPostaSeqC7-F33-1-1-2-2-B*6)//(DTPWC9-F67-2-2-1-3-2-1-2-B*4))-B-6-B/CML451-BB
6	ZH137755	((DTPWC9-F67-2-2-1-3-2-1-2-BBB/LaPostaSeqC7-F33-1-1-2-2-B*6)//(DTPWC9-F67-2-2-1-3-2-1-2-B*4))-B-7-B/CML451-BB
7	ZH137756	((DTPWC9-F67-2-2-1-3-2-1-2-BBB/LaPostaSeqC7-F33-1-1-2-2-B*6)//(DTPWC9-F67-2-2-1-3-2-1-2-B*4))-B-8-B/CML451-BB
8	ZH137757	((DTPWC9-F67-2-2-1-3-2-1-2-BBB/LaPostaSeqC7-F33-1-1-2-2-B*6)//(DTPWC9-F67-2-2-1-3-2-1-2-B*4))-B-9-B/CML451-BB
9	ZH137758	((G18SeqC5F100-1-1-3-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-1-1)//(G18SeqC5F100-1-1-3-1-2-B*4))-B-2-B/CML451-BB
10	ZH137759	((G18SeqC5F100-1-1-3-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-1-1)//(G18SeqC5F100-1-1-3-1-2-B*4))-B-6-B/CML451-BB
11	ZH137760	((G18SeqC5F100-1-1-3-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-1-1)//(G18SeqC5F100-1-1-3-1-2-B*4))-B-7-B/CML451-BB
12	ZH137761	((G18SeqC5F76-2-1-2-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-1-1)//(G18SeqC5F76-2-1-2-1-2-BB-B3-B))-B-1-B/CML451-BB
13	ZH137762	((G18SeqC5F76-2-1-2-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-1-1)//(G18SeqC5F76-2-1-2-1-2-BB-B3-B))-B-4-B/CML451-BB
14	ZH137763	((G18SeqC5F76-2-1-2-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-1-1)//(G18SeqC5F76-2-1-2-1-2-BB-B3-B))-B-5-B/CML451-BB
15	ZH137764	((G18SeqC5F76-2-1-2-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-1-1)//(G18SeqC5F76-2-1-2-1-2-BB-B3-B))-B-11-B/CML451-BB
16	ZH137765	((G18SeqC5F76-2-1-2-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-1-1)//(G18SeqC5F76-2-1-2-1-2-BB-B3-B))-B-14-B/CML451-BB
17	ZH137766	((CA03139-6-5-1-BB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-1-1)//(CA03139-6-5-1-BBB))-B-9-B/CML451-BB
18	ZH137767	((G18SeqC5F76-2-1-2-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F303-1-1-1-B)//(G18SeqC5F76-2-1-2-1-2-BB-B3-B))-B-3-B/CML451-BB
19	ZH137768	((G18SeqC5F76-2-1-2-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F303-1-1-1-B)//(G18SeqC5F76-2-1-2-1-2-BB-B3-B))-B-6-B/CML451-BB
20	ZH137769	((G18SeqC5F76-2-1-2-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F303-1-1-1-B)//(G18SeqC5F76-2-1-2-1-2-BB-B3-B))-B-8-B/CML451-BB
21	ZH137770	((G18SeqC5F76-2-1-2-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F303-1-1-1-B)//(G18SeqC5F76-2-1-2-1-2-BB-B3-B))-B-11-B/CML451-BB
22	ZH137771	((P31C4S5B-23-##-6-B*6-3-B-1-BB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F303-1-1-1-B)//(P31C4S5B-23-##-6-B*6-3-B-1-B-B1-B))-B-1-B/CML451-BB
23	ZH137772	((P31C4S5B-23-##-6-B*6-3-B-1-BB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F303-1-1-1-B)//(P31C4S5B-23-##-6-B*6-3-B-1-B-B1-B))-B-7-B/CML451-BB
24	ZH137773	((DTPYC9-F46-3-9-1-2-2-1-3-BBB/Jlocal-18-6-2-3-3-1-B*5)//(DTPYC9-F46-3-9-1-2-2-1-3-B*4))-B-1-B/CML451-BB
25	ZH137774	((DTPYC9-F87-1-1-1-2-1-2-1-BBB/Jlocal-18-6-2-3-3-1-B*5)//(DTPYC9-F87-1-1-1-2-1-2-1-B*5))-B-3-B/CML451-BB
26	ZH137775	((DTPYC9-F87-1-1-1-2-1-2-1-BBB/Jlocal-18-6-2-3-3-1-B*5)//(DTPYC9-F87-1-1-1-2-1-2-1-B*5))-B-9-B/CML451-BB
27	ZH137776	((HKI-34-(1+2)-1-1-B1-B/Jlocal-18-6-2-3-3-1-B*5)//(HKI-34-(1+2)-1-1-BBB))-B-1-B/CML451-BB
28	ZH137777	((HKI-34-(1+2)-1-1-B1-B/Jlocal-18-6-2-3-3-1-B*5)//(HKI-34-(1+2)-1-1-BBB))-B-4-B/CML451-BB

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Table 10. CAT1434 [EDWBCTC-19] - Advance stage early-medium maturity yellow hybrids-Set 7

Entry	Name	Pedigree
29	ZH137778	((HKI-34-(1+2)-1-1-B1-B/Jlocal-18-6-2-3-3-1-B*5)//(HKI-34-(1+2)-1-1-BBB))-B-8-B/CML451-BB
30	ZH137779	((HKI-34-(1+2)-1-1-B1-B/Jlocal-18-6-2-3-3-1-B*5)//(HKI-34-(1+2)-1-1-BBB))-B-11-B/CML451-BB
31	ZH137780	((HKI-34-(1+2)-1-1-B1-B/Jlocal-18-6-2-3-3-1-B*5)//(HKI-34-(1+2)-1-1-BBB))-B-12-B/CML451-BB
32	ZH137781	((DTPYC9-F142-1-3-1-2-1-2-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3))-B-F192-1-1-1-B)//(DTPYC9-F142-1-3-1-2-1-2-2-B*4))-B-5-B/CML451-BB
33	ZH137782	((DTPYC9-F142-1-3-1-2-1-2-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3))-B-F192-1-1-1-B)//(DTPYC9-F142-1-3-1-2-1-2-2-B*4))-B-12-B/CML451-BB
34	ZH137783	((DTPYC9-F87-1-1-1-2-1-2-1-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3))-B-F192-1-1-1-B)//(DTPYC9-F87-1-1-1-2-1-2-1-B*4))-B-6-B/CML451-BB
35	ZH137784	((DTPYC9-F87-1-1-1-2-1-2-1-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3))-B-F192-1-1-1-B)//(DTPYC9-F87-1-1-1-2-1-2-1-B*4))-B-9-B/CML451-BB
36	ZH137785	((DTPYC9-F87-1-1-1-2-1-2-1-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3))-B-F192-1-1-1-B)//(DTPYC9-F87-1-1-1-2-1-2-1-B*4))-B-10-B/CML451-BB
37	ZH137786	((DTPYC9-F87-1-1-1-2-1-2-1-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3))-B-F192-1-1-1-B)//(DTPYC9-F87-1-1-1-2-1-2-1-B*4))-B-11-B/CML451-BB
38	ZH137787	((DTPYC9-F87-1-1-1-2-1-2-1-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3))-B-F192-1-1-1-B)//(DTPYC9-F87-1-1-1-2-1-2-1-B*4))-B-14-B/CML451-BB
39	ZH137788	((DTPYC9-F87-1-1-1-2-1-2-1-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3))-B-F192-1-1-1-B)//(DTPYC9-F87-1-1-1-2-1-2-1-B*4))-B-16-B/CML451-BB
40	ZH137789	((HKI-34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3))-B-F192-1-1-1-B)//(HKI-34-(1+2)-1-1-B1-BBB))-B-1-B/CML451-BB
41	ZH137790	((HKI-34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3))-B-F192-1-1-1-B)//(HKI-34-(1+2)-1-1-B1-BBB))-B-2-B/CML451-BB
42	ZH137791	((HKI-34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3))-B-F192-1-1-1-B)//(HKI-34-(1+2)-1-1-B1-BBB))-B-4-B/CML451-BB
43	ZH137792	((HKI-34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3))-B-F192-1-1-1-B)//(HKI-34-(1+2)-1-1-B1-BBB))-B-7-B/CML451-BB
44	ZH137793	((HKI-34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3))-B-F192-1-1-1-B)//(HKI-34-(1+2)-1-1-B1-BBB))-B-9-B/CML451-BB
45	ZH137794	((HKI-34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3))-B-F192-1-1-1-B)//(HKI-34-(1+2)-1-1-B1-BBB))-B-11-B/CML451-BB
46	ZH137795	((HKI-34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3))-B-F192-1-1-1-B)//(HKI-34-(1+2)-1-1-B1-BBB))-B-12-B/CML451-BB
47	ZH137796	((HKI-34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3))-B-F192-1-1-1-B)//(HKI-34-(1+2)-1-1-B1-BBB))-B-14-B/CML451-BB
48	ZH137797	((HKI-34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3))-B-F192-1-1-1-B)//(HKI-34-(1+2)-1-1-B1-BBB))-B-15-B/CML451-BB
49	ZH137798	((HKI-34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3))-B-F192-1-1-1-B)//(HKI-34-(1+2)-1-1-B1-BBB))-B-16-B/CML451-BB
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Table 11. CAT1434 [EDWBCTC-210] - Advance stage early-medium maturity yellow hybrids-Set 7

Entry	Name	Pedigree
1	1	((POOL16BNSEQC3F37x3-2-2-3-2-BBB/DTPWC9-F2-3-1-1-2-1-2-1-BBB)//(POOL16BNSEQC3F37x3-2-2-3-2-B*4))-B-10-B/CL02450
2	2	((POOL16BNSEQC3F37x3-2-2-3-2-BBB/DTPWC9-F2-3-1-1-2-1-2-1-BBB)//(POOL16BNSEQC3F37x3-2-2-3-2-B*4))-B-14-B/CL02450
3	3	((POOL16BNSEQC3F37x3-2-2-3-2-BBB/DTPWC9-F2-3-1-1-2-1-2-1-BBB)//(POOL16BNSEQC3F37x3-2-2-3-2-B*4))-B-16-B/CL02450
4	4	((DTPWC9-F115-1-4-1-2-2-1-3-BBB/LaPostaSeqC7-F33-1-1-2-2-B*6)//(DTPWC9-F115-1-4-1-2-2-1-3-B*4))-B-4-B/CL02450
5	5	((DTPWC9-F67-2-2-1-3-2-1-2-BBB/LaPostaSeqC7-F33-1-1-2-2-B*6)//(DTPWC9-F67-2-2-1-3-2-1-2-B*4))-B-6-B/CL02450
6	6	((DTPWC9-F67-2-2-1-3-2-1-2-BBB/LaPostaSeqC7-F33-1-1-2-2-B*6)//(DTPWC9-F67-2-2-1-3-2-1-2-B*4))-B-7-B/CL02450
7	7	((DTPWC9-F67-2-2-1-3-2-1-2-BBB/LaPostaSeqC7-F33-1-1-2-2-B*6)//(DTPWC9-F67-2-2-1-3-2-1-2-B*4))-B-8-B/CL02450
8	8	((DTPWC9-F67-2-2-1-3-2-1-2-BBB/LaPostaSeqC7-F33-1-1-2-2-B*6)//(DTPWC9-F67-2-2-1-3-2-1-2-B*4))-B-9-B/CL02450
9	9	((G18SeqC5F100-1-1-3-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-1-1)//(G18SeqC5F100-1-1-3-1-2-B*4))-B-6-B/CL02450
10	10	((G18SeqC5F100-1-1-3-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-1-1)//(G18SeqC5F100-1-1-3-1-2-B*4))-B-7-B/CL02450
11	11	((G18SeqC5F76-2-1-2-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-1-1)//(G18SeqC5F76-2-1-2-1-2-BB-B3-B))-B-1-B/CL02450
12	12	((G18SeqC5F76-2-1-2-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-1-1)//(G18SeqC5F76-2-1-2-1-2-BB-B3-B))-B-4-B/CL02450
13	13	((G18SeqC5F76-2-1-2-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-1-1)//(G18SeqC5F76-2-1-2-1-2-BB-B3-B))-B-5-B/CL02450
14	14	((G18SeqC5F76-2-1-2-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-1-1)//(G18SeqC5F76-2-1-2-1-2-BB-B3-B))-B-11-B/CL02450
15	15	((G18SeqC5F76-2-1-2-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-1-1)//(G18SeqC5F76-2-1-2-1-2-BB-B3-B))-B-14-B/CL02450
16	16	((CA03139-6-5-1-BB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-1-1)//(CA03139-6-5-1-BBB))-B-9-B/CL02450
17	17	((G18SeqC5F76-2-1-2-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F303-1-1-1-B)//(G18SeqC5F76-2-1-2-1-2-BB-B3-B))-B-3-B/CL02450
18	18	((G18SeqC5F76-2-1-2-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F303-1-1-1-B)//(G18SeqC5F76-2-1-2-1-2-BB-B3-B))-B-6-B/CL02450
19	19	((G18SeqC5F76-2-1-2-1-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F303-1-1-1-B)//(G18SeqC5F76-2-1-2-1-2-BB-B3-B))-B-11-B/CL02450
20	20	((P31C4S5B-23-##-6-B*6-3-B-1-BB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F303-1-1-1-B)//(P31C4S5B-23-##-6-B*6-3-B-1-B-B1-B))-B-1-B/CL02450
21	21	((DTPYC9-F46-3-9-1-2-2-1-3-BBB/Jlocal-18-6-2-3-3-1-B*5)//(DTPYC9-F46-3-9-1-2-2-1-3-B*4))-B-1-B/CL02450
22	22	((DTPYC9-F87-1-1-1-2-1-2-1-BBB/Jlocal-18-6-2-3-3-1-B*5)//(DTPYC9-F87-1-1-1-2-1-2-1-B*5))-B-3-B/CL02450
23	23	((DTPYC9-F87-1-1-1-2-1-2-1-BBB/Jlocal-18-6-2-3-3-1-B*5)//(DTPYC9-F87-1-1-1-2-1-2-1-B*5))-B-9-B/CL02450
24	24	((HKI-34-(1+2)-1-1-B1-B/Jlocal-18-6-2-3-3-1-B*5)//(HKI-34-(1+2)-1-1-BBB))-B-1-B/CL02450
25	25	((HKI-34-(1+2)-1-1-B1-B/Jlocal-18-6-2-3-3-1-B*5)//(HKI-34-(1+2)-1-1-BBB))-B-4-B/CL02450
26	26	((HKI-34-(1+2)-1-1-B1-B/Jlocal-18-6-2-3-3-1-B*5)//(HKI-34-(1+2)-1-1-BBB))-B-8-B/CL02450
27	27	((HKI-34-(1+2)-1-1-B1-B/Jlocal-18-6-2-3-3-1-B*5)//(HKI-34-(1+2)-1-1-BBB))-B-11-B/CL02450
28	28	((HKI-34-(1+2)-1-1-B1-B/Jlocal-18-6-2-3-3-1-B*5)//(HKI-34-(1+2)-1-1-BBB))-B-12-B/CL02450
29	29	((DTPYC9-F142-1-3-1-2-1-2-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B)//(DTPYC9-F142-1-3-1-2-1-2-2-B*4))-B-5-B/CL02450
30	30	((DTPYC9-F142-1-3-1-2-1-2-2-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B)//(DTPYC9-F142-1-3-1-2-1-2-2-B*4))-B-12-B/CL02450
31	31	((DTPYC9-F87-1-1-1-2-1-2-1-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B)//(DTPYC9-F87-1-1-1-2-1-2-1-B*4))-B-6-B/CL02450

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Table 11. CAT1434 [EDWBCTC-210] - Advance stage early-medium maturity yellow hybrids-Set 7

Entry	Name	Pedigree
32	32	((DTPYC9-F87-1-1-1-2-1-2-1-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B))//((DTPYC9-F87-1-1-1-2-1-2-1-B*4))-B-9-B/CL02450
33	33	((DTPYC9-F87-1-1-1-2-1-2-1-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B))//((DTPYC9-F87-1-1-1-2-1-2-1-B*4))-B-10-B/CL02450
34	34	((DTPYC9-F87-1-1-1-2-1-2-1-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B))//((DTPYC9-F87-1-1-1-2-1-2-1-B*4))-B-11-B/CL02450
35	35	((DTPYC9-F87-1-1-1-2-1-2-1-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B))//((DTPYC9-F87-1-1-1-2-1-2-1-B*4))-B-14-B/CL02450
36	36	((DTPYC9-F87-1-1-1-2-1-2-1-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B))//((DTPYC9-F87-1-1-1-2-1-2-1-B*4))-B-16-B/CL02450
37	37	((HKI-34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B))//((HKI-34-(1+2)-1-1-B1-BBB))-B-1-B/CL02450
38	38	((HKI-34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B))//((HKI-34-(1+2)-1-1-B1-BBB))-B-2-B/CL02450
39	39	((HKI-34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B))//((HKI-34-(1+2)-1-1-B1-BBB))-B-4-B/CL02450
40	40	((HKI-34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B))//((HKI-34-(1+2)-1-1-B1-BBB))-B-7-B/CL02450
41	41	((HKI-34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B))//((HKI-34-(1+2)-1-1-B1-BBB))-B-9-B/CL02450
42	42	((HKI-34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B))//((HKI-34-(1+2)-1-1-B1-BBB))-B-11-B/CL02450
43	43	((HKI-34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B))//((HKI-34-(1+2)-1-1-B1-BBB))-B-12-B/CL02450
44	44	((HKI-34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B))//((HKI-34-(1+2)-1-1-B1-BBB))-B-14-B/CL02450
45	45	((HKI-34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B))//((HKI-34-(1+2)-1-1-B1-BBB))-B-15-B/CL02450
46	46	((HKI-34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B))//((HKI-34-(1+2)-1-1-B1-BBB))-B-16-B/CL02450
47	47	Local Check-3 CP818
48	48	Local check 4 Pio3396
49	49	Heat tolerant check-1 DKC9501
50	50	Heat tolerant check-2 31Y45

Table 12. Pedigree details of BLSBAMP-22 (Udaipur), FSRAMP-23 (Arbhavi), MSRAMP-25 (Hyderabad)

Entry	Name	Pedigree
1	VL1225	AMATLCOHS44-5-2-2-1-1-B*10
2	VL108851	DTPYC9-F103-5-4-1-2-1-2-2-B*7
3	VL062606	DTPYC9-F142-3-2-1-2-1-2-2-B*7
4	VL108863	DTPYC9-F148-2-2-1-2-1-2-1-B*7
5	VL108870	DTPYC9-F46-3-6-1-2-2-1-2-B*7
6	VL109079	G18SeqC5F105-1-1-1-1-2-3-B*7
7	VL109087	G18SeqC5F76-2-2-1-1-2-B*8
8	VL109179	P31C4S5B-23-##-6-B*6-1-2-1-B*7
9	VL109179	P31C4S5B-23-##-6-B*6-1-4-2-B*6
10	VL109179	P31C4S5B-23-##-6-B*6-5-B-1-B*6
11	VL109179	P31C4S5B-23-##-6-B*7-6-B-2-B*8
12	VL1016214	P446-34-1-4-B*5-1-B*8
13	VL1018171	POOL16BNSEQC3F10x34-3-1-2-2-B*7
14	VL1018169	POOL16BNSEQC3F19x6-3-1-2-2-B*8
15	VL1013294	POOL16BNSEQC3F37x3-2-2-3-2-B*9
16	VL1018147	POOL16BNSEQC3F6x3-1-1-2-1-B*7
17	VL1238	SO4YLWL-172-B-1-1-B-1-B*8
18	VL1245	WLS-F191-2-1-1-B-1-B*7
19	VL1247	WLS-F238-2-2-1-B-1-B*4-B1-BB
20	VL1248	WLS-F287-1-3-1-B-1-B*8
21	VL0512420	CML226-1-2-2-1-B*11
22	VL055199	CML440-1-B*6
23	VL105612	CML474-BBB-2-B*7
24	VL106	(CA14502/CA14509)-F2-31-1-B*9
25	VL107	(CA14502/CA14509)-F2-32-2-B*9
26	VL1026	CA003134-BBB-2-B*8
27	VL108735	CML425/P31C4S5B-6-##-B*9-B1-B*6
28	VL057847	ZEWAac1F2-300-2-2-B-1-B*4-1-B-1-B*8
29	VL1011	(CA14515/CA14502)-F2-10-2-B*9
30	VL1065	P31C4S5B-38-##-4-B*8-2-B*7
31	VL109085	G18SeqC5F76-1-1-1-1-2-1-B*6
32	VL107649	(CML474/S92145-2EV-7-3-B*5)-F2-25-1-B*10
33	VL1077	TL-SEQUIAS03446-1-B-7-1-B*9
34	VL062627	DTPYC9-F143-1-6-1-B*7
35	VL1018808	CLA113-B*5
36	VL1018807	CLA91-B*5
37	VL062632	DTPYC9-F72-1-2-1-1-B*7
38	VL1219	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F70-1-1-1-B*4
39	VL108859	DTPYC9-F143-5-5-1-2-1-2-2-B*8
40	VL1250	WLS-F310-3-2-2-B-1-B*8
41	VL1010766	(CML165xKI45)-B-11-3-BB-1-B*8
42	VL108842	DTPWC9-F102-3-1-2-2-1-2-1-B*7
43	VL1018391	CML162-B*10
44	VL108870	DTPYC9-F46-3-6-1-2-2-1-1-BB-B1-B2-BBB
45	VL109079	G18SeqC5F105-1-1-1-1-2-2-B*7
46	VL1018145	POOL16BNSEQC3F22x1-3-2-2-2-B*9
47	VL1010923	TL-SEQUIAS03446-2-B-24-2-B*8
48	VL0512420	CML226-2-3-2-1-B*6-B1-B*5
49	VL1061	Messina-03445(S2-Syn)-F1Bulk-22-1-2-B*10
50	VL058589	INTA-F2-192-2-1-1-1-B*6-1-B*8
51	VL105555	SW5-10-B*5-2-B*8
52	VL107539	(CA14515/CA14509)-F2-7-3-B*11
53	VL1022	[DTPYC9-F74-1-1-1-1-BBxDTPYC9-F65-2-2-1-1-BB]-B-3-4-B*10
54	VL108727	CA14517/P145C4MH7-1-B-1-1-B-1-1-B*16

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Table 12. Pedigree details of BLSBAMP-22 (Udaipur), FSRAMP-23 (Arbhavi), MSRAMP-25 (Hyderabad)

Entry	Name	Pedigree
55	VL109579	CLQ-RCYQ12-B-1-B*8
56	VL109583	CLQ-RCYQ40=(CML165xCLQ-6203)-B-9-1-1-B-2-B*4-1-B*8
57	VL1254	[(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*5
58	VL1018809	CLA149-B*5
59	VL1018805	CLA18-B-2-B*4
60	VL062604	DTPYC9-F86-1-1-1-1-B*8
61	VL124	(DT/LN/EM-46-3-1x CML311-2-1-3)-B-F154-1-1-1-BBB
62	VL108729	CA00106-BBB-5-B*7
63	VL1033	CA14514-2-6-2-B*6
64	VL1033	CA14514-8-3-2-B*6
65	VL108848	DTPWC9-F55-2-1-1-2-3-1-2-B*7
66	VL108867	DTPYC9-F38-5-2-1-1-2-2-1-B*8
67	VL108871	DTPYC9-F87-1-1-1-2-1-2-1-B*9
68	VL058454	NIP25-20-1-1-B-1-B*4-1-B-1-B*6
69	VL1237	SO4YLWL-112-B-1-2-B-1-B*7
70	VL1016220	SW92145-2P9S2-##-B*6-1-B-2-B*6
71	VL1249	WLS-F299-2-1-2-B-2-B*6
72	VL1031	CA03141-1-B-2-B*8
73	VL109499	(CML161xCLQ-RCYQ31)-B-10-3-BB-3-B*8
74	VL1211	(DT/LN/EM-46-3-1x CML311-2-1-3)-B-F293-1-1-1-B*5
75	VL108306	[CML329xCML20]F2-47-2-B*13
76	VL1016196	CA14509-BBB-2-B*5
77	VL108849	DTPWC9-F67-2-2-1-3-2-1-1-B*8
78	VL108869	DTPYC9-F46-3-1-1-2-3-2-2-B*9
79	VL1018297	CML68-B*8
80	VL12284	[Ent52:92SEW1-2][DMRESR-W]EarlySel-#L-2-1-B/CML386]-B-22-1-B-4-#-1-B*4-1-B*7
81	VL1020	[[[K64R/G16SR]-39-1/[K64R/G16SR]-20-2]-5-1-2-B*4/CML390]-B-38-1-B-7-#[[BETASYN]BC1-1-1-1-#-B*10
82	VL109084	G18SeqC5F74-2-1-1-2-2-B*7
83	VL1239	SO4YLWL-90-B-3-1-B-1-B*7
84	VL1012756	CML472-B*8
85	VL105617	Pop31C4S5B-85-##-1-4-3-B*7-4-B*8
86	VL1017529	POP351C0-HS236-2-1-B*4-1-B*5-B1-BB
87	VL057967	ZEWAac1F2-219-4-3-B-1-B*4-3-B-1-B*7
88	VL108720	DTPWC9-F24-2-3-1-3-2-1-2-B*9
89	VL1018804	CLA12-B*6
90	VL1018811	CLA158-B*5
91	VL1258	CL-G1839=G18SeqC3-17-1-1-2-2-B*10
92	VL127	(DT/LN/EM-46-3-1x CML311-2-1-3)-B-F192-1-1-1-B*7
93	VL109309	CLQ-RCYQ28-B-3-B*8
94	VL0510832	DRB-F2-60-1-1-1-B*8
95	VL062614	DTPYC9-F74-1-1-1-1-B*8
96	VL1223	[G16SeqC1F47-2-1-2-1-B*5xP84c1F26-2-2-6-B-3-B]F25-2-3-1x[KILIMAST94A]-30/MSV-03-101-08-BB-1xP84c1F27-4-1-4-B-3-B]F2-1-2-2-4-2-BxCML161]-1-1-B*6
97	VL1223	[G16SeqC1F47-2-1-2-1-B*5xP84c1F26-2-2-6-B-3-B]F25-2-3-1x[KILIMAST94A]-30/MSV-03-101-08-BB-1xP84c1F27-4-1-4-B-3-B]F2-1-2-2-4-2-BxCML161]-1-1-B*6
98	VL108151	5406-119P28TSR-(S2)-3-1-2-2-B-###-B*14
99	VL1033	CA14514-1-B-1-B*6
100	VL1034	CA14709-4-7-5-1-B*6
101	VL062623	DTPYC9-F102-4-5-1-1-BBB-B1-B*4
102	VL108862	DTPYC9-F148-2-1-1-2-2-1-3-B*6
103	VL108868	DTPYC9-F46-1-7-1-2-1-2-2-B*7
104	VL108882	EY-DMR-C5-S2-BB-3-2-B*6-1-B*6
105	VL1018151	POOL16BNSEQC3F32x37-4-1-2-1-B*8

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Table 12. Pedigree details of BLSBAMP-22 (Udaipur), FSRAMP-23 (Arbhavi), MSRAMP-25 (Hyderabad)

Entry	Name	Pedigree
106	VL1240	SO4YLWL-96-B-1-1-B-1-B*7
107	VL056364	CML442-B*8
108	VL054799	[[[K64R/G16SR]-39-1/[K64R/G16SR]-20-2]-5-1-2-B*4/CML390]-B-38-1-B-7-#-B*6-1-B*5
109	VL105606	(CML427/CML474)-F2-19-1-B*8
110	VL122	(DT/LN/EM-46-3-1x CML311-2-1-3)-B-F14-1-1-1-B1-B*4
111	VL1012767	(CTS013050/(AMATLC0HS167-1-1-1-2F/R)-B*5/Ki44)-B*11
112	VL062623	DTPYC9-F102-4-5-1-1-BBB-B2-B*5
113	VL1030	CA03139-BBB-2-B*7
114	VL1016210	P33c3-238-1-1-1-1-B*12
115	VL109407	Pop61C1QPMTEYF-74-1-1-2-2-B-1-B*8
116	VL0512388	CML171-BBB-1-B*8
117	VL05127	CML181-B*8
118	VL1046	CLQS89YQ06-B*8
119	VL109180	P31C4S5B-33-##-11-B*8-3-B*7
120	VL105551	POP352CO-HS324-2-2-BB-2-B-1-B*8
121	VL108732	Pop147-F2#134-1-2-B-1-B*14
122	VL062618	DTPYC9-F38-4-3-1-2-B*8
123	VL1018806	CLA44-B*5
124	VL05615	ZEWBc1F2-216-2-2-B-2-B*4-1-B-1-B*7
125	VL128	(DT/LN/EM-46-3-1x CML311-2-1-3)-B-F216-1-1-1-B*5
126	VL108807	CLG2502-B*7
127	VL0512439	ZM523B-29-2-1-1-B*8
128	VL1217	(DT/LN/EM-46-3-1x CML311-2-1-3)-B-F43-1-1-1-B*5
129	VL1016179	POB45c9F223-4-2-1-B*11
130	VL108303	[CML327xCML287]F2-32-1-B*5-1-B*8
131	VL109451	(CLQ-6601xCL-02843)-B-26-1-1-BB-1-B*7
132	VL108501	CA00102/CA00106-B-12-2-B*7
133	VL062624	DTPYC9-F46-3-9-1-1-B*9
134	VL1017777	G33QC25MH103-31-5-1-B*6-1-B*7
135	VL1232	KSX3601F2-4-4-3-2-1-B*10
136	VL1016212	P45c8-164-1-1-2-8-B*4-2-B*8
137	VL1016247	POB45c8-152-1-1-1-2-B*16
138	VL1016213	POB45c9F212-18-2-1-B*14
139	VL056864	SW89300-1P5S2-5-##1-6-1-BB-1-B-1-B*6
140	VL0511298	MAS[MSR/312]-117-2-2-1-BBB-1-B*6
141	VL103	(CA14502/CA14509)-F2-14-1-B*8
142	VL1021	[[[NAW5867/P30SR]-40-1/[NAW5867/P30SR]-114-2]-16-2-2-B-2-B/CML395-6]-B-20-1-B-3-#/[BETASYN]BC1-3-1-1-#-B*11
143	VL1012768	(CTS013058/(AMATLC0HS167-1-1-1-2F/R)-B*5/Nei402011)-B*11
144	VL109524	(CML165xKI45)-B-14-1-B*4-1-B*7
145	VL107580	(CML226xCML295)-67-3-4-2-B*12
146	VL1212	(DT/LN/EM-46-3-1x CML311-2-1-3)-B-F294-1-1-1-B*4
147	VL108282	[CML226x[CATETODC1276/7619]-2-B-5-2-B]F2-19-2-B*4-2-B*8
148	VL1016197	CA00314-2-B-3-B*8
149	VL1018135	DTPWC9-F31-1-1-3-1-2-1-3-B*8
150	VL1016211	POB33c4F26-2-1-1-B*14
151	VL0512386	CML163-BBB-2-B*8
152	VL1012841	CML468-B*7
153	VL109547	[CL-G2501xCML170]-B-3-1-1-BB-1-B*8
154	VL1056	CML451Q-B*8
155	VL125	(DT/LN/EM-46-3-1x CML311-2-1-3)-B-F164-1-1-1-B*6
156	VL1016212	P45c8-164-1-1-2-8-B*4-3-B*7
157	VL109516	(CML161xCLQ-RCYQ49=(CML176/CL-G2501)-B-55-2-1-B)-B-20-1-B*9
158	VL107505	(CA14515/CA14509)-F2-18-2-B*9

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Table 12. Pedigree details of BLSBAMP-22 (Udaipur), FSRAMP-23 (Arbhavi), MSRAMP-25 (Hyderabad)

Entry	Name	Pedigree
159	VL05616	[SC/CML204//FR812]-X-30-2-3-2-1-B*4-1-B*8
160	VL109480	(CML150xCL-03618)-B-11-1-1-1-B*4-1-B*8
161	VL123	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F149-1-1-1-B*5
162	VL133726	CL-RCY031=(CL-02410*CML287)-B-9-1-1-2-B*12
163	VL108304	[CML327xCML287]F2-32-1-B*5-2-B*8
164	VL108308	[CML329xCML287]F2-38-1-B*12
165	VL1224	5406-29P24STEC1HC17-4-2-1-1-B*10
166	VL1018793	90[SPMATC4/P500(SELY)]#-B-4-2-B*8
167	VL108496	CA00102/CA00106-B-11-1-B*7
168	VL108504	CA00102/CA00106-B-13-1-B*7
169	VL108665	CA00102/CA03149-B-5-2-B*7
170	VL109452	(CLQ-6601xCL-02843)-B-26-3-1-BB-2-B*7
171	VL1010090	CA00102-B-1-B-2-B*6
172	VL108706	CA00106/CA03147-BB-3-B*6
173	VL1016073	CA14701-BB-1-B*6
174	VL109251	(CLQ-RCYQ28xP390Am/CMLc4F218-B-1-B)-B-6-2-BB-2-B*6
175	VL1016242	POB45c8-67-1-1-3-B*16
176	VL1016178	POB45c9F22-18-3-1-B*4-1-B*8
177	VL107578	(CML20xCML329)-17-3-3-1-B*11
178	VL0511305	ZM621A-10-1-1-1-2-B*10-1-B*6
179	VL1043	CLQRCYQ59-B*8
180	VL107389	(AC7643/AC7729/TZSRW)-1-75-#-B*4-1-5-6-B*4-B1-B*6
181	VL073318	[SYN-USAB2/SYN-ELIB2]-12-1-1-2-B*5-1-B*6
182	VL1010779	Pop61C1QPMTEYF-54-2-2-2-2-B-2-B*7
183	VL1018369	CML140-B*10
184	VL0512423	CML229-B*9
185	VL1018496	CML284-2-B*6
186	VL1018510	CML298-2-B*7
187	VL1018532	CML323-B*4
188	VL105618	Pop31DMR-88-3#-B*15-2-B-2-B*5
189	VL109449	(CLQ-6601xCL-02843)-B-2-2-1-BB-1-B*8
190	VL109456	(CLQ-RCYQ28xP390Am/CMLc4F218-B-1-B)-B-9-1-B*9
191	VL109545	[CL-G2501xCML170]-B-2-3-2-BB-3-B*8
192	VL109855	Pop61C1QPMTEYF-46-1-1-1-2-B-1-B*8
193	VL1018	(S92145-2EV-7-3-B*5/CML427)-F2-32-2-B*9
194	VL1040	CLQG2508-B*8
195	VL1069	Pop445c1F2-207-2-B-6-BB-1-B*6
196	VL108726	CA03147-B*7
197	VL057982	ZEWAc1F2-134-4-1-B-1-B*4-1-B-1-B*8
198	VL109287	(CML161xCLQ-RCYQ49=(CML176/CL-G2501)-B-55-2-1-B)-B-19-1-B*9
199	VL1017795	POB45c9F210-17-1-2-B*12
200	VL109485	(CML161xCML451)-B-18-1-B*4-2-B*7
201	VL107579	(CML226xCML295)-32-1-2-2-B*12
202	VL121095	CLA41-B*6
203	VL1018140	DTPWC9-F75-3-2-1-2-2-1-3-B*7
204	VL108880	EW-DMR-G-C7-HS-(SIB)-9-B-1-B*7
205	VL1018299	CML70-2-B*6
206	VL0511311	CML149-B*9
207	VL051963	CML186-1-B*6
208	VL1018667	CML479-2-B*7
209	VL1037	CL02450Q-B*8
210	VL1038	CL02603-B*8
211	VL1045	CLQS89YQ04-B*8
212	VL105614	P72c1xCML297xCL-02410-3-1-1-B*8

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Table 12. Pedigree details of BLSBAMP-22 (Udaipur), FSRAMP-23 (Arbhavi), MSRAMP-25 (Hyderabad)

Entry	Name	Pedigree
213	VL109470	(CLQ-RCYQ31xCLQ-RCYQ49=(CML176xCL-G2501)-B-55-2-1-B)-B-34-1-BB-4-B*8
214	VL109307	CLQ-RCYQ035-B*13
215	VL1259	CL-RCY023=(CL-02439*CML286)-B-1-2-2-B*13

Table 13. Pedigree details of FSRAMP-32 (Udaipur), FSRAMP-33 (Arbhavi), MSRAMP-35 (Hyderabad)

Entry	Name	Pedigree
1	VL1016173	POB33c4F213-6-1-1-B*4-2-B*8
2	VL1018148	POOL16BNSEQC3F6x3-1-2-3-2-B*7
3	VL1017544	Pop446c1F2-59-1-B*10
4	VL109582	CLQ-RCYQ36-B-1-B*8
5	VL0511321	[TS6C1F238-1-3-3-1-2-#-BB/[EV7992#/EV8449-SR]C1F2-334-1(OSU8i)-10-7(I)-X-X-X-2-BB-1]-1-1-2-1-1-B*5-1-B-B2-B*4
6	VL108473	90[SPMATC4/P500(SELY)]#-B-48-4-B*10
7	VL108849	DTPWC9-F67-2-2-1-3-2-1-2-B*9
8	VL108851	DTPYC9-F103-5-4-1-2-1-2-1-B*7
9	VL1018268	CML39-B*8
10	VL107657	(CML474/S92145-2EV-7-3-B*5)-F2-58-1-B*10
11	VL1012763	(CTS011004/EY-DMR-G-C5-S2-BB-3-1-B*4/Pop147)F2#89-3-2-B-1-B*13
12	VL105554	SW3-17-BB-2-BBB-2-B*8
13	VL109501	(CML161xCLQ-RCYQ31)-B-12-2-BB-2-B*7
14	VL1018673	CML486=P45c8-76-1-2-1-2-B*15
15	VL1050	CLRCY041-B*8
16	VL1049	CLRCY040-B*8
17	VL062609	DTPYC9-F46-3-9-1-2-2-1-3-B*9
18	VL062605	DTPYC9-F69-3-1-1-2-2-1-1-B*7
19	VL1012837	CML421-BBB-1-B*7
20	VL108731	CML425-B*7
21	VL1012849	POP352CO-HS110-2-1-B*5-1-B*7
22	VL1010762	(CL-RCY016x(CML165xCLQ-6203)-B-54-1-1-BB)-B-20-2-BB-1-B*6
23	VL107579	(CML226xCLQ-295)-32-1-2-2-B-1-B*9
24	VL105544	CA00326-6-B-2-B*7
25	VL121654	CLQRCYQ63-B*6
26	VL1018108	LaPostaSeqC7-F71-1-2-2-1-B*10
27	VL1012847	POP351C0-HS274-1-1-B*4-2-B*6
28	VL1053	CML165-B*8
29	VL1018419	CML193-B*5
30	VL0512418	CML224-B*9
31	VL1018503	CML291-1-B*7
32	VL058725	CML312-1-B*7
33	VL1018553	CML344-B*8
34	VL109138	CML433-B*7
35	VL1055	CML451-B*8
36	VL1253	CML452=Ac8328BNC6-166-1-1-1-B*15
37	VL1012903	CML465-B*7
38	VL05552	CML491-B*8
39	VL1018680	CML495-B*7
40	VL05550	CML503-B*8
41	VL0512595	MAS[206/312]-23-2-1-1-B*7-1-B*6
42	VL1017761	POP352CO-B-82-B*5-2-B*8
43	VL109507	(CML161xCLQ-RCYQ31)-B-23-2-BB-1-B*8
44	VL1042	CLQRCYQ49-B*8
45	VL108723	CA00310/AMATLC0HS71-1-1-2-1-1-1-B*17
46	VL108733	PT963216-B*17
47	VL1257	CLQ-RCYQ54=(CML176xCL-G2501)-B-3-1-B*8
48	VL1011020	CLRCY016-B*5
49	VL1036	CL02450-B*8
50	VL058726	CML395-2-B*5
51	VL1035	CarotenoidSyn3-FS8-4-3-B*9
52	VL108724	CA00370/(AMATLC0HS133-1-F/R)-1-3-1-2-5-B*15
53	VL1051	CLRCY044-B*8
54	VL1044	CLQRCYQ60-B*8

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Table 13. Pedigree details of FSRAMP-32 (Udaipur), FSRAMP-33 (Arbhavi), MSRAMP-35 (Hyderabad)

Entry	Name	Pedigree
55	VL1012765	(CTS013004/AMATLC0HS71-1-1-2-1-1-1-B*5/Ki45)-B*11
56	VL1012766	(CTS013008/AMATLC0HS71-1-1-2-1-1-1-B*5/Nei402020)-B*11
57	VL109463	(CLQ-RCYQ31xCLQ-RCYQ35)-B-5-5-BB-1-B*8
58	VL1018798	CLRCY018-B*5
59	VL1010760	(CLQ-RCYQ14=(CML164*CML161)-B-1-1-1-BBBxP390Am/CMLc4F218-B-1-B)-B-4-2-BB-2-B*6
60	VL109250	(CLQ-RCYQ28xP390Am/CMLc4F218-B-1-B)-B-43-1-BB-2-B*7
61	VL109282	(CML161xCLQ-RCYQ31)-B-3-6-BB-3-B*8
62	VL108721	LaPostaSeqC7-F18-3-2-2-3-B*12
63	VL1018812	CLA309-B*4
64	VL1210	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F239-1-1-1-B*6
65	VL121096	NEI9008-B*6
66	VL1018527	CML317-2-B*6
67	VL1018604	CML400-B*6
68	VL058727	CML444-1-B*6
69	VL1018640	CML448-B*6
70	VL1018641	CML449-B*6
71	VL05606	CLQ-RCWQ50-B*12
72	VL0536	[CML389/CML176]-B-29-2-2-B*6-1-B*7
73	VL108722	LaPostaSeqC7-F86-3-1-2-1-B*10
74	VL109479	CLQRCYQ44-B*8
75	VL1048	CLRCY039-B*7
76	VL1010764	(CML165xCL-02843)-B-12-3-1-BB-1-B*8
77	VL1010778	Pop61C1QPMTEYF-40-1-1-1-1-B-1-B*8
78	VL109200	CLRCW88-B*8
79	VL108808	CLRCY015-B*6
80	VL108335	[CML329/MBRc2Am]F14-1-B*13
81	VL1018530	CML320-2-B*6
82	VL05614	CZL99014-B-2-B*6
83	VL1047	CLRCY030-B*8
84	VL105546	P45C6HC63-3-1-1-B-2-3-4-1-B*4-1-B*7
85	VL1018158	POOL16BNSEQC3F6x38-1-1-2-2-B*7
86	VL0512421	CML227-B*9
87	VL1018466	CML254-B*8
88	VL055063	[Ent320:92SEW2-77/[DMRESR-W]EarlySel-#I-2-4-B/CML386]-B-11-3-B-2-#-B*4-1-B*8
89	VL108806	CL02457-1-B-1-B*5
90	VL1010861	Messina-03445(S2-Syn)-F1Bulk-45-3-1-B*5
91	VL062607	DTPYC9-F143-5-4-1-2-B*4-B1-BBB
92	VL062630	DTPYC9-F114-2-4-1-2-B*5
93	VL1214	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F330-1-1-1-B-B1-BB
94	VL1231	CL-RCW97-B*6
95	VL108810	CLRCY038-B*7
96	VL109475	(CLQ-RCYQ46=(CML150xCL-03618)-B-17-2-2-BxCL-RCY017)-B-23-2-BB-2-B*5
97	VL108281	[CML226x[CATETODC1276/7619]-2-B-5-2-B]F2-10-1-B*10
98	VL121094	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F148-1-1-1-1-1-BBB
99	VL0510130	CML488-B*5
100	VL109584	CLQ-RCYQ41-BB-2-B*5
101	VL0511320	CML489-1-B*4
102	ZL11276	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F12-1-1-1-1-B
103	VL109293	(PHY11-3-1-3-1-1-2-B*5/CML161)-B-3-2-BB-1-B*5
104	VL1017256	P390amC3/285x287F73-3-2-3xMIRTC5AmF96-1-1-1-3-1)-1-1-B*6
105	VL0511286	[CML198/ZSR923S4BULK-2-2-X-X-X-1-BB]-3-3-1-1-2-B*9-1-B*4
106	ZL11295	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F73-1-1-1-BB
107	CML470	CML470
108	CML451	CML451

Table 14. Pedigree details of BLSBIT-52 (Udaipur)

Entry	Name	Pedigree
1	SNL148611	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-1
2	SNL148612	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-2
3	SNL148613	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-3
4	SNL148614	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-4
5	SNL148615	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-5
6	SNL148616	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-6
7	SNL148617	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-7
8	SNL148618	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-8
9	SNL148619	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-9
10	SNL148620	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-10
11	SNL148621	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-11
12	SNL148622	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-12
13	SNL148623	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-13
14	SNL148624	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-14
15	SNL148625	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-15
16	SNL148626	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-16
17	SNL148627	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-17
18	SNL148628	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-18
19	SNL148629	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-19
20	SNL148630	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-20
21	SNL148631	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-21
22	SNL148632	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-22
23	SNL148633	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-23
24	SNL148634	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-24
25	SNL148635	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-25
26	SNL148636	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-26
27	SNL148637	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-27
28	SNL148638	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-28
29	SNL148639	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-29
30	SNL148640	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-30
31	SNL148641	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-31
32	SNL148642	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-32
33	SNL148643	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-33
34	SNL148644	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-34
35	SNL148645	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-35
36	SNL148646	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-36
37	SNL148647	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-37
38	SNL148648	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-38
39	SNL148649	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-39
40	SNL148650	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-40
41	SNL148651	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-41
42	SNL148652	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-42
43	SNL148653	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-43
44	SNL148654	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-44
45	SNL148655	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-45
46	SNL148656	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-46
47	SNL148657	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-47
48	SNL148658	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-48
49	SNL148659	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-49
50	SNL148660	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-50
51	SNL148661	((CML193/CML486=P45c8-76-1-2-1-2-B*13)/CML193)-51
52	SNL1410769	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-1
53	SNL1410770	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-2
54	SNL1410771	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-3

Table 14. Pedigree details of BLSBIT-52 (Udaipur)

Entry	Name	Pedigree
55	SNL1410772	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-4
56	SNL1410773	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-5
57	SNL1410774	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-6
58	SNL1410775	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-7
59	SNL1410776	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-8
60	SNL1410777	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-9
61	SNL1410778	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-10
62	SNL1410779	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-11
63	SNL1410780	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-12
64	SNL1410781	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-13
65	SNL1410782	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-14
66	SNL1410783	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-15
67	SNL1410784	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-16
68	SNL1410785	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-17
69	SNL1410786	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-18
70	SNL1410787	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-19
71	SNL1410788	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-20
72	SNL1410789	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-21
73	SNL1410790	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-22
74	SNL1410791	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-23
75	SNL1410792	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-24
76	SNL1410793	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-25
77	SNL1410794	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-26
78	SNL1410795	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-27
79	SNL1410796	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-28
80	SNL1410797	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-29
81	SNL1410798	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-30
82	SNL1410799	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-31
83	SNL1410800	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-32
84	SNL1410801	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-33
85	SNL1410802	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-34
86	SNL1410803	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-35
87	SNL1410804	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-36
88	SNL1410805	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-37
89	SNL1410806	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-38
90	SNL1410807	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-39
91	SNL1410808	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-40
92	SNL1410809	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-41
93	SNL1410810	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-42
94	SNL1410811	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-43
95	SNL1410812	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-44
96	SNL1410813	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-45
97	SNL1410814	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-46
98	SNL1410815	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-47
99	SNL1410816	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-48
100	SNL1410817	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-49
101	SNL1410818	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-50
102	SNL1410819	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-51
103	SNL1410820	((CL0-2450/CLQRCYQ59-B*4)/CL02450)-52
104	CML193	CML193

Table 14. Pedigree details of DMIT-32 (Udaipur)

Entry	Name	Pedigree
1	VL073318	[SYN-USAB2/SYN-ELIB2]-12-1-1-2-B*5-1-B*4
2	VL108849	DTPWC9-F67-2-2-1-3-2-1-1-B*6
3	VL1018140	DTPWC9-F75-3-2-1-2-2-1-3-B*5
4	VL108880	EW-DMR-G-C7-HS-(SIB)-9-B-1-B*5
5	VL1012847	POP351C0-HS274-1-1-B*4-2-B*4
6	VL1018419	CML193-BBB
7	VL0512418	CML224-B*7
8	VL0512423	CML229-B*7
9	VL109138	CML433-B*5
10	VL108723	CA00310/AMATLC0HS71-1-1-2-1-1-1-B*15
11	VL1016197	CA00314-2-B-3-B*6
12	VL108732	Pop147-F2#134-1-2-B-1-B*12
13	VL108870	DTPYC9-F46-3-6-1-2-2-1-2-B*5
14	VL109079	G18SeqC5F105-1-1-1-2-3-B*5
15	VL109179	P31C4S5B-23-##-6-B*6-3-B-2-B*5
16	VL1018162	POOL16BNSEQC3F19x39-1-1-2-2-B*5
17	VL1238	SO4YLWL-172-B-1-1-B-1-B*6
18	VL1248	WLS-F287-1-3-1-B-1-B*6
19	VL1012756	CML472-B*6
20	VL107539	(CA14515/CA14509)-F2-7-3-B*9
21	VL107649	(CML474/S92145-2EV-7-3-B*5)-F2-25-1-B*8
22	VL1077	TL-SEQUIAS03446-1-B-7-1-B*7
23	VL1219	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F70-1-1-1-BBB
24	VL108504	CA00102/CA00106-B-13-1-B*5
25	VL108665	CA00102/CA03149-B-5-2-B*5
26	VL108729	CA00106-9-B-2-B*4
27	VL1030	CA03139-7-B-2-B*4
28	VL1030	CA03139-BBB-2-B*5
29	VL1033	CA14514-B-2-B-2-B*4
30	VL1033	CA14514-1-B-1-B*4
31	VL1033	CA14514-2-6-2-B*4
32	VL1033	CA14514-4-3-1-B*4
33	VL1033	CA14514-8-3-2-B*4
34	VL1016073	CA14701-BB-1-B*4
35	VL108868	DTPYC9-F46-1-7-1-2-1-2-2-B*5
36	VL108882	EY-DMR-C5-S2-BB-3-2-B*6-1-B*4
37	VL1016212	P45c8-164-1-1-2-8-B*4-2-B*6
38	VL105549	POP351C0-HS155-3-1-BB-1-B-1-B*5
39	VL1249	WLS-F299-2-1-2-B-2-B*4
40	VL105606	(CML427/CML474)-F2-19-1-B*6
41	VL1031	CA03141-1-B-2-B*6
42	VL1012768	(CTS013058/(AMATLC0HS167-1-1-1-2F/R)-B*5/Nei402011)-B*9

Table 15. Pedigree details of BLSBIT-12 (Ludhiana)

Entry	Stock ID	Name	Pedigree
1	SN188-539	SNL143940	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-1
2	SN188-540	SNL143941	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-2
3	SN188-541	SNL143942	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-3
4	SN188-542	SNL143943	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-4
5	SN188-543	SNL143944	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-5
6	SN188-544	SNL143945	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-6
7	SN188-545	SNL143946	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-7
8	SN188-546	SNL143947	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-8
9	SN188-547	SNL143948	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-9
10	SN188-548	SNL143949	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-10
11	SN188-549	SNL143950	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-11
12	SN188-550	SNL143951	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-12
13	SN188-551	SNL143952	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-13
14	SN188-552	SNL143953	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-14
15	SN188-553	SNL143954	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-15
16	SN188-554	SNL143955	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-16
17	SN188-555	SNL143956	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-17
18	SN188-556	SNL143957	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-18
19	SN188-557	SNL143958	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-19
20	SN188-558	SNL143959	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-20
21	SN188-559	SNL143960	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-21
22	SN188-560	SNL143961	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-22
23	SN188-561	SNL143962	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-23
24	SN188-562	SNL143963	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-24
25	SN188-563	SNL143964	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-25
26	SN188-564	SNL143965	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-26
27	SN188-565	SNL143966	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-27
28	SN188-566	SNL143967	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-28
29	SN188-567	SNL143968	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-29
30	SN188-568	SNL143969	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-30
31	SN188-569	SNL143970	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-31
32	SN188-570	SNL143971	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-32
33	SN188-571	SNL143972	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-33
34	SN188-572	SNL143973	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-34
35	SN188-573	SNL143974	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-35
36	SN188-574	SNL143975	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-36
37	SN188-575	SNL143976	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-37
38	SN188-576	SNL143977	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-38
39	SN188-577	SNL143978	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-39
40	SN188-578	SNL143979	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-40
41	SN188-579	SNL143980	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-41
42	SN188-580	SNL143981	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-42
43	SN188-581	SNL143982	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-43
44	SN188-582	SNL143983	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-44
45	SN188-583	SNL143984	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-45
46	SN188-584	SNL143985	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-46
47	SN188-585	SNL143986	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-47
48	SN188-586	SNL143987	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-48
49	SN188-587	SNL143988	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-49
50	SN188-588	SNL143989	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-50
51	SN188-589	SNL143990	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-51
52	SN188-590	SNL143991	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-52
53	SN188-591	SNL143992	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-53
54	SN188-592	SNL143993	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-54

Table 15. Pedigree details of BLSBIT-12 (Ludhiana)

Entry	Stock ID	Name	Pedigree
55	SN188-593	SNL143994	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-55
56	SN188-594	SNL143995	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-56
57	SN188-595	SNL143996	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-57
58	SN188-596	SNL143997	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-58
59	SN188-597	SNL143998	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-59
60	SN188-598	SNL143999	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-60
61	SN188-599	SNL144000	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-61
62	SN188-600	SNL144001	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-62
63	SN188-601	SNL144002	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-63
64	SN188-602	SNL144003	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-64
65	SN188-603	SNL144004	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-65
66	SN188-604	SNL144005	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-66
67	SN188-605	SNL144006	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-67
68	SN188-606	SNL144007	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-68
69	SN188-607	SNL144008	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-69
70	SN188-608	SNL144009	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-70
71	SN188-609	SNL144010	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-71
72	SN188-610	SNL144011	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-72
73	SN188-611	SNL144012	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-73
74	SN188-612	SNL144013	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-74
75	SN188-613	SNL144014	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-75
76	SN188-614	SNL144015	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-76
77	SN188-615	SNL144016	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-77
78	SN188-616	SNL144017	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-78
79	SN188-617	SNL144018	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-79
80	SN188-618	SNL144019	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-80
81	SN188-619	SNL144020	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-81
82	SN188-620	SNL144021	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-82
83	SN188-621	SNL144022	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-83
84	SN188-622	SNL144023	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-84
85	SN188-623	SNL144024	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-85
86	SN188-624	SNL144025	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-86
87	SN188-625	SNL144026	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-87
88	SN188-626	SNL144027	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-88
89	SN188-627	SNL144028	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-89
90	SN188-628	SNL144029	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-90
91	SN188-629	SNL144030	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-91
92	SN188-630	SNL144031	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-92
93	SN188-631	SNL144032	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-93
94	SN188-632	SNL144033	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-94
95	SN188-633	SNL144034	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-95
96	SN188-634	SNL144035	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-96
97	SN188-635	SNL144036	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-97
98	SN188-636	SNL144037	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-98
99	SN188-637	SNL144038	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-99
100	SN188-638	SNL144039	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-100
101	SN188-639	SNL144040	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-101
102	SN188-640	SNL144041	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-102
103	SN188-641	SNL144042	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-103
104	SN188-642	SNL144043	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-104
105	SN188-643	SNL144044	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-105
106	SN188-644	SNL144045	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-106
107	SN188-645	SNL144046	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-107
108	SN188-646	SNL144047	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-108

Table 15. Pedigree details of BLSBIT-12 (Ludhiana)

Entry	Stock ID	Name	Pedigree
109	SN188-647	SNL144048	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-109
110	SN188-648	SNL144049	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-110
111	SN188-649	SNL144050	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-111
112	SN188-650	SNL144051	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-112
113	SN188-651	SNL144052	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-113
114	SN188-652	SNL144053	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-114
115	SN188-653	SNL144054	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-115
116	SN188-654	SNL144055	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-116
117	SN188-655	SNL144056	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-117
118	SN188-656	SNL144057	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-118
119	SN188-657	SNL144058	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-119
120	SN188-658	SNL144059	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-120
121	SN188-659	SNL144060	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-121
122	SN188-660	SNL144061	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-122
123	SN188-661	SNL144062	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-123
124	SN188-662	SNL144063	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-124
125	SN188-663	SNL144064	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-125
126	SN188-664	SNL144065	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-126
127	SN188-665	SNL144066	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-127
128	SN188-666	SNL144067	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-128
129	SN188-667	SNL144068	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-129
130	SN188-668	SNL144069	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-130
131	SN188-669	SNL144070	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-131
132	SN188-670	SNL144071	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-132
133	SN188-671	SNL144072	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-133
134	SN188-672	SNL144073	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-134
135	SN188-673	SNL144074	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-135
136	SN188-674	SNL144075	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-136
137	SN188-675	SNL144076	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-137
138	SN188-676	SNL144077	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-138
139	SN188-677	SNL144078	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-139
140	SN188-678	SNL144079	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-140
141	SN188-679	SNL144080	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-141
142	SN188-680	SNL144081	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-142
143	SN188-681	SNL144082	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-143
144	SN188-682	SNL144083	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-144
145	SN188-683	SNL144084	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-145
146	SN188-684	SNL144085	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-146
147	SN188-685	SNL144086	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-147
148	SN188-686	SNL144087	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-148
149	SN188-687	SNL144088	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-149
150	SN188-688	SNL144089	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-150
151	SN188-689	SNL144090	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-151
152	SN188-690	SNL144091	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-152
153	SN188-691	SNL144092	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-153
154	SN188-692	SNL144093	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-154
155	SN188-693	SNL144094	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-155
156	SN188-694	SNL144095	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-156
157	SN188-695	SNL144096	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-157
158	SN188-696	SNL144097	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-158
159	SN188-697	SNL144098	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-159
160	SN188-698	SNL144099	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-160
161	SN188-699	SNL144100	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-161
162	SN188-700	SNL144101	(CLO-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-162

Table 15. Pedigree details of BLSBIT-12 (Ludhiana)

Entry	Stock ID	Name	Pedigree
163	SN188-701	SNL144102	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-163
164	SN188-702	SNL144103	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-164
165	SN188-703	SNL144104	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-165
166	SN188-704	SNL144105	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-166
167	SN188-705	SNL144106	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-167
168	SN188-706	SNL144107	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-168
169	SN188-707	SNL144108	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-169
170	SN188-708	SNL144109	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-170
171	SN188-709	SNL144110	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-171
172	SN188-710	SNL144111	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-172
173	SN188-711	SNL144112	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-173
174	SN188-712	SNL144113	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-174
175	SN188-713	SNL144114	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-175
176	SN188-714	SNL144115	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-176
177	SN188-715	SNL144116	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-177
178	SN188-716	SNL144117	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-178
179	SN188-717	SNL144118	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-179
180	SN188-718	SNL144119	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-180
181	SN188-719	SNL144120	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-181
182	SN188-720	SNL144121	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-182
183	SN188-721	SNL144122	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-183
184	SN188-722	SNL144123	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-184
185	SN188-723	SNL144124	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-185
186	SN188-724	SNL144125	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-186
187	SN188-725	SNL144126	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-187
188	SN188-726	SNL144127	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-188
189	SN188-727	SNL144128	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-189
190	SN188-728	SNL144129	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-190
191	SN188-729	SNL144130	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-191
192	SN188-730	SNL144131	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-192
193	SN188-731	SNL144132	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-193
194	SN188-732	SNL144133	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-194
195	SN188-733	SNL144134	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-195
196	SN188-734	SNL144135	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-196
197	SN188-735	SNL144136	(CL0-2450/CML486=P45c8-76-1-2-1-2-B*13)-1-197
198	SN193-1	VL1018673	CML486=P45c8-76-1-2-1-2-B*13-B
199	CL02450	CL02450	CL02450
200	CML474	CML474	CML474

Table 16. Pedigree details of BLSBIT-33 (Dhaulakuan)

Entry	Stock ID	Pedigree	Pedigree
1	SN208-1	SNL142319	(NEI412004-B/BLSB-R(China))-BB-10-B-B-B
2	SN208-2	SNL142320	(NEI412004-B/BLSB-R(China))-BB-12-B-B-B
3	SN208-3	SNL142321	(NEI412004-B/BLSB-R(China))-BB-14-B-B-B1
4	SN208-4	SNL1411604	(NEI412004-B/BLSB-R(China))-BB-14-B-B-B2
5	SN208-5	SNL142322	(NEI411011-B/BLSB-R(China))-BB-1-B1-B-B
6	SN208-6	SNL142323	(NEI411011-B/BLSB-R(China))-BB-1-B2-B-B1
7	SN208-7	SNL1411605	(NEI411011-B/BLSB-R(China))-BB-1-B2-B-B2
8	SN208-8	SNL142324	(NEI411011-B/BLSB-R(China))-BB-12-B1-B-B
9	SN208-9	SNL142325	(NEI411011-B/BLSB-R(China))-BB-12-B2-B-B1
10	SN208-10	SNL1411606	(NEI411011-B/BLSB-R(China))-BB-12-B2-B-B2
11	SN208-11	SNL142326	(NEI411011-B/BLSB-R(China))-BB-13-B1-B-B
12	SN208-12	SNL142327	(NEI411011-B/BLSB-R(China))-BB-13-B2-B-B1
13	SN208-13	SNL1411607	(NEI411011-B/BLSB-R(China))-BB-13-B2-B-B2
14	SN208-14	SNL142328	(NEI9008-B/BLSB-R(China))-BB-1-B1-B-B
15	SN208-15	SNL142329	(NEI9008-B/BLSB-R(China))-BB-1-B2-B-B1
16	SN208-16	SNL1411608	(NEI9008-B/BLSB-R(China))-BB-1-B2-B-B2
17	SN208-17	SNL142330	(NEI9008-B/BLSB-R(China))-BB-3-B1-B-B
18	SN208-18	SNL142331	(NEI9008-B/BLSB-R(China))-BB-3-B2-B-B
19	SN208-19	SNL142332	(NEI9008-B/BLSB-R(China))-BB-5-B1-B-B
20	SN208-20	SNL142333	(NEI9008-B/BLSB-R(China))-BB-5-B2-B-B
21	SN208-21	SNL142334	(NEI9008-B/BLSB-R(China))-BB-6-B1-B-B
22	SN208-22	SNL142335	(NEI9008-B/BLSB-R(China))-BB-6-B2-B-B
23	SN208-23	SNL142336	(NEI9008-B/BLSB-R(China))-BB-7-B1-B-B
24	SN208-24	SNL142337	(NEI9008-B/BLSB-R(China))-BB-7-B2-B-B
25	SN208-25	SNL142338	(NEI9008-B/BLSB-R(China))-BB-8-B-B-B
26	SN208-26	SNL142339	(NEI9008-B/BLSB-R(China))-BB-9-B1-B-B
27	SN208-27	SNL142340	(NEI9008-B/BLSB-R(China))-BB-9-B2-B-B
28	SN208-28	SNL142341	(NEI9008-B/BLSB-R(China))-BB-10-B-B1-B
29	SN208-29	SNL142342	(NEI9008-B/BLSB-R(China))-BB-10-B-B2-B1
30	SN208-30	SNL1411609	(NEI9008-B/BLSB-R(China))-BB-10-B-B2-B2
31	SN208-31	SNL1411610	(NEI9008-B/BLSB-R(China))-BB-10-B-B2-B3
32	SN208-32	SNL142343	(NEI9008-B/BLSB-R(China))-BB-11-B-B-B
33	SN208-33	SNL142344	(NEI9008-B/BLSB-R(China))-BB-12-B1-B-B
34	SN208-34	SNL142345	(NEI9008-B/BLSB-R(China))-BB-12-B2-B-B
35	SN208-35	SNL142346	(NEI9008-B/BLSB-R(China))-BB-13-B1-B-B
36	SN208-36	SNL142347	(NEI9008-B/BLSB-R(China))-BB-13-B2-B-B1
37	SN208-37	SNL142347	(NEI9008-B/BLSB-R(China))-BB-13-B2-B-B2
38	SN208-38	SNL142348	(NEI9008-B/BLSB-R(China))-BB-14-B-B-B
39	SN208-39	SNL142349	(NEI9008-B/BLSB-R(China))-BB-15-B-B-B
40	SN208-40	SNL142350	(NEI9008-B/BLSB-R(China))-BB-16-B1-B1-B
41	SN208-41	SNL142351	(NEI9008-B/BLSB-R(China))-BB-16-B1-B2-B
42	SN208-42	SNL142352	(NEI9008-B/BLSB-R(China))-BB-16-B2-B-B
43	SN208-43	SNL142353	(NEI9008-B/BLSB-R(China))-BB-17-B-B-B
44	SN208-44	SNL142354	(NEI9008-B/BLSB-R(China))-BB-18-B-B-B
45	SN208-45	SNL142355	(NEI9008-B/BLSB-R(China))-BB-19-B-B-B
46	SN208-46	SNL142356	(NEI9008-B/BLSB-R(China))-BB-20-B-B-B
47	SN208-47	SNL142357	(NEI9008-B/BLSB-R(China))-BB-21-B-B-B
48	SN208-48	SNL142358	(NEI9008-B/BLSB-R(China))-BB-22-B-B-B
49	SN208-49	SNL142359	(NEI9202-B/BLSB-R(China))-BB-5-B-B-B
50	SN208-50	SNL142360	(NEI9202-B/BLSB-R(China))-BB-6-B1-B1-B
51	SN208-51	SNL142361	(NEI9202-B/BLSB-R(China))-BB-6-B1-B2-B
52	SN208-52	SNL142362	(NEI9202-B/BLSB-R(China))-BB-6-B2-B-B
53	SN208-53	SNL142363	(NEI9202-B/BLSB-R(China))-BB-7-B-B-B
54	SN208-54	SNL142364	(NEI9202-B/BLSB-R(China))-BB-8-B1-B1-B

Table 16. Pedigree details of BLSBIT-33 (Dhaulakuan)

Entry	Stock ID	Pedigree	Pedigree
55	SN208-55	SNL142365	(NEI9202-B/BLSB-R(China)-BB-8-B1-B2-B
56	SN208-56	SNL142366	(NEI9202-B/BLSB-R(China)-BB-8-B2-B-B
57	SN208-57	SNL142367	(NEI9202-B/BLSB-R(China)-BB-9-B-B-B
58	SN208-58	SNL142368	(NEI9202-B/BLSB-R(China)-BB-11-B-B-B
59	SN208-59	SNL142369	(NEI9202-B/BLSB-R(China)-BB-12-B-B-B
60	SN208-60	SNL142370	(NEI9202-B/BLSB-R(China)-BB-14-B-B-B
61	SN208-61	SNL142371	(NEI9202-B/BLSB-R(China)-BB-15-B-B-B
62	SN208-62	SNL142372	(NEI9202-B/BLSB-R(China)-BB-16-B1-B-B
63	SN208-63	SNL142373	(NEI9202-B/BLSB-R(China)-BB-16-B2-B-B
64	SN208-64	SNL142374	(NEI9202-B/BLSB-R(China)-BB-19-B1-B-B
65	SN208-65	SNL142375	(NEI9202-B/BLSB-R(China)-BB-19-B2-B-B
66	SN208-66	SNL142376	(NEI9202-B/BLSB-R(China)-BB-21-B-B-B
67	SN208-67	SNL142377	(NEI9202-B/BLSB-R(China)-BB-23-B1-B-B
68	SN208-68	SNL142378	(NEI9202-B/BLSB-R(China)-BB-23-B2-B1-B
69	SN208-69	SNL142379	(NEI9202-B/BLSB-R(China)-BB-23-B2-B2-B
70	SN208-70	SNL142380	(NEI411008-B/CML465)-BB-6-B-B-B
71	SN208-71	SNL142381	(NEI9008-B/BLSB-R(China)-BB-23-B-B
72	SN208-72	SNL142382	(NEI9202-B/BLSB-R(China)-BB-2-B1-B
73	SN208-73	SNL142383	(NEI9202-B/BLSB-R(China)-BB-2-B2-B
74	SN208-74	SNL142384	(NEI9202-B/BLSB-R(China)-BB-20-B-B
75	SN208-75	SNL142385	(NEI9202-B/BLSB-R(China)-BB-23-B-B
76	SN208-76	SNL142386	(NEI9202-B/BLSB-R(China)-BB-24-B-B

Table 16. Pedigree details of TLBIT11-SCAT-1453 (Arbhavi)

Entry	Name	Pedigree
1	SNL144989	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-1
2	SNL144990	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-2
3	SNL144991	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-3
4	SNL144992	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-4
5	SNL144993	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-5
6	SNL144994	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-6
7	SNL144995	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-7
8	SNL144996	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-8
9	SNL144997	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-9
10	SNL144998	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-10
11	SNL144999	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-11
12	SNL145000	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-12
13	SNL145001	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-13
14	SNL145002	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-14
15	SNL145003	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-15
16	SNL145004	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-16
17	SNL145005	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-17
18	SNL145006	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-18
19	SNL145007	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-19
20	SNL145008	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-20
21	SNL145009	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-21
22	SNL145010	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-22
23	SNL145011	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-23
24	SNL145012	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-24
25	SNL145013	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-25
26	SNL145014	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-26
27	SNL145015	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-27
28	SNL145016	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-28
29	SNL145017	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-29
30	SNL145018	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-30
31	SNL145019	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-31
32	SNL145020	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-32
33	SNL145021	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-33
34	SNL145022	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-34
35	SNL145023	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-35
36	SNL145024	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-36
37	SNL145025	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-37
38	SNL145026	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-38
39	SNL145027	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-39
40	SNL145028	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-40
41	SNL145029	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-41
42	SNL145030	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-42
43	SNL145031	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-43
44	SNL145032	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-44
45	SNL145033	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-45
46	SNL145034	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-46
47	SNL145035	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-47
48	SNL145036	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-48
49	SNL145037	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-49
50	SNL145038	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-50
51	SNL145039	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-51
52	SNL145040	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-52
53	SNL145041	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-53
54	SNL145042	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-54

Table 16. Pedigree details of TLBIT11-SCAT-1453 (Arbhavi)

Entry	Name	Pedigree
55	SNL145043	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-55
56	SNL145044	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-56
57	SNL145045	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-57
58	SNL145046	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-58
59	SNL145047	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-59
60	SNL145048	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-60
61	SNL145049	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-61
62	SNL145050	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-62
63	SNL145051	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-63
64	SNL145052	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-64
65	SNL145053	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-65
66	SNL145054	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-66
67	SNL145055	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-67
68	SNL145056	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-68
69	SNL145057	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-69
70	SNL145058	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-70
71	SNL145059	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-71
72	SNL145060	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-72
73	SNL145061	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-73
74	SNL145062	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-74
75	SNL145063	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-75
76	SNL145064	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-76
77	SNL145065	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-77
78	SNL145066	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-78
79	SNL145067	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-79
80	SNL145068	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-80
81	SNL145069	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-81
82	SNL145070	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-82
83	SNL145071	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-83
84	SNL145072	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-84
85	SNL145073	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-85
86	SNL145074	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-86
87	SNL145075	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-87
88	SNL145076	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-88
89	SNL145077	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-89
90	SNL145078	(CML193/WLS-F299-2-1-2-B-2-B-B)-1-90
91		WLS-F299-2-1-2-B-2-B-B
92	CML193	CML193

Table 17. Pedigree details of FSRAMP-13 (Arbhavi) and MSRAMP-15 (Hyderabad)

Entry	Name	Pedigree
1	VL109474	(CLQ-RCYQ46=(CML150xCL-03618)-B-17-2-2-BxCL-02450)-B-6-3-BB-1-B*8
2	VL1018165	POOL16BNSEQC3F24x10-1-1-2-1-B*9
3	VL109078	G18SeqC5F100-1-1-3-1-2-B*9
4	VL109081	G18SeqC5F236-1-2-1-2-2-B*7
5	VL1010856	Messina-03445(S2-Syn)-F1Bulk-22-3-1-B*8
6	VL1010885	Pop445c1F2-219-2-B*4-1-B*7
7	VL1074	Pop446c1F2-269-1-B-3-BB-2-B*7
8	VL105542	89(G34/AC8536)#-88-1-2-B-1-1-1-B*4-1-B*8
9	VL1052	CML161-B*8
10	VL1028	CA03118-B-4-2-1-B*8
11	VL1028	CA03118-B-4-4-2-B-B2-B*4
12	VL109079	G18SeqC5F105-1-1-1-2-1-BB-B2-B*4
13	VL1018157	POOL16BNSEQC3F6x38-1-1-2-1-B*7
14	VL1252	WLS-F90-2-1-3-B-3-B*8
15	VL102	([Pop445c1F2-1-1xPop446c1F2]x[Pop446c1F2-358-2xPop445c1F2])#-38-2-B*9
16	VL1032	CA14507-BB-2-B*8
17	VL1066	P31C4S5B-41-##-B*6-1-B-1-B*8
18	VL1226	CA03139-6-5-1-B*8
19	VL1227	CA03139-6-7-1-B*7
20	VL062611	DTPYC9-F46-3-4-1-1-B*8
21	VL1029	CA03130-BB-2-B-1-B*7
22	VL1033	CA14514-B-2-B-2-B*6
23	VL108855	DTPYC9-F142-1-3-1-2-1-2-2-B*7
24	VL109080	G18SeqC5F19-1-2-1-2-4-B*7
25	VL121103	NEI411018-B*6
26	VL1018155	POOL16BNSEQC3F34x31-2-1-2-3-B*7
27	VL1063	Messina-03446(S2-Syn)-F1Bulk-72-1-1-B*9
28	VL108769	CA03120-1-B-1-B*7
29	VL107459	(CA14502/CA14509)-F2-8-1-B*10
30	VL1012935	Pop446c1F2-394-1-B*4-1-B*7
31	VL1255	[M37W/ZM607#bF37sr-2-3sr-6-2-X]-8-2-X-1-BBB-xP84c1F27-4-3-3-B-1-B]F29-1-2-2x[KILIMAST94A]-30/MSV-03-101-08-BB-1xP84c1F27-4-1-4-B-3-B]F2-1-2-1-1-1-BxCML486]-1-1-BB-B1-BB
32	VL1221	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F76-1-1-1-B*5
33	VL1216	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F4-1-1-1-B*5
34	VL062625	DTPYC9-F46-1-2-1-1-B*7
35	VL108844	DTPWC9-F115-1-4-1-2-2-1-3-B*7
36	VL105549	POP351C0-HS155-3-1-BB-1-B-1-B*7
37	VL1018794	S87P69Q(SIYF)131-2-2-1-B*7
38	VL109184	P31C4S5B-85-##-1-4-5-B*5-1-B-1-B*8
39	VL1215	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F331-1-1-1-B*5
40	VL1222	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F81-1-1-1-B*5
41	VL1029	CA03130-BB-3-B-1-B*7
42	VL108853	DTPYC9-F134-2-1-2-1-2-1-1-B*6
43	VL108860	DTPYC9-F145-3-2-1-2-2-1-2-B*6
44	VL109080	G18SeqC5F19-1-2-1-2-2-B*6
45	VL109081	G18SeqC5F236-1-2-1-2-3-B*8
46	VL109086	G18SeqC5F76-2-1-2-1-1-B*8
47	VL109086	G18SeqC5F76-2-1-2-1-2-BB-B3-B-B1-BB
48	VL121102	NEI411010-B*6
49	VL109179	P31C4S5B-23-##-6-B*6-1-1-1-B*6
50	VL109179	P31C4S5B-23-##-6-B*6-3-B-2-B*7
51	VL109179	P31C4S5B-23-##-6-B*7-3-B-1-B*6
52	VL109179	P31C4S5B-23-##-6-B*7-3-B-1-B*6

Table 17. Pedigree details of FSRAMP-13 (Arbhavi) and MSRAMP-15 (Hyderabad)

Entry	Name	Pedigree
53	VL1017749	P31C4S5B-99-JMM-B*8-1-B*6
54	VL1018160	POOL16BNSEQC3F10x1-1-1-2-2-B*8
55	VL1018162	POOL16BNSEQC3F19x39-1-1-2-2-B*7
56	VL1018172	POOL16BNSEQC3F28x15-3-1-2-2-B*8
57	VL109186	Pop31C4S5B-6-##-1-2-B*5-B1-BB-2-B*6
58	VL1246	WLS-F211-2-2-2-B-2-B*8
59	VL1018625	CML422-2-B*7
60	VL105611	CML470-B*7
61	VL1062	Messina-03445(S2-Syn)-F1Bulk-78-2-1-B*9
62	VL1076	Pop31C4S5B-85-##-1-2-B*5-B2-BB-4-B*8
63	VL109181	P31C4S5B-38-##-3-B*6-2-B*7
64	VL1012764	(CTS011072/P31C4S5B-38-##-2-B*4/P31DMR-88-3#)-B*25
65	VL105605	CarotenoidSyn3-FS11-4-3-B*5(B1)-B*6
66	VL1068	Pop445c1F2-167-1-2-1-BBB-1-B*7
67	VL1072	Pop446c1F2-256-1-B-4-11-BB-1-B*7
68	VL108725	CA03109/P31C4S5B-85-##-3-B*16
69	VL109576	CLQ-6603-B-1-B*8
70	VL1213	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F303-1-1-1-B*7
71	VL1256	CL-G1829=G18C23-61-3-1-1-B*12
72	VL126	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F191-1-1-1-B1-B*4
73	VL1236	Saracura-11-3-2-2-1-B*11
74	VL1241	WLS-F102-3-2-1-B-1-B*8
75	VL1244	WLS-F190-2-1-1-B-2-B*6
76	VL1018803	DTPYC9-F125-2-8-1-1-B*8
77	VL108850	DTPYC9-F102-4-5-1-2-1-2-1-B*5
78	VL1218	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F50-1-1-1-B1-B*4
79	VL108734	SW92145-2EV-7-3-B*5-5-B-1-B*5
80	VL129	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F232-1-1-1-1-B*4
81	VL1030	CA03139-7-B-2-B*6
82	VL1033	CA14514-4-3-1-B*6
83	VL1228	CA14514-6-B-1-B*7
84	VL1033	CA14514-9-6-3-B*6
85	VL108856	DTPYC9-F142-1-4-1-2-1-2-1-B*4-B1-BBB
86	VL062660	LaPostaSeqC7-F64-1-1-1-2-B*10
87	VL1251	WLS-F36-4-2-2-B-1-B*7
88	VL1018393	CML164-B*8
89	VL1018535	CML326-1-B*7
90	VL109863	Pop61C1QPMTEYF-76-2-1-1-2-B-1-B*8
91	VL062626	DTPYC9-F46-1-2-1-2-B*7
92	VL109178	P31C4S5B-23-##-4-B*7-4-B*8
93	VL1242	WLS-F173-3-1-1-B-2-B*7
94	VL1018810	CLA155-B*5
95	VL1018792	CML329/MBRc2amF14-2-B*9
96	VL108866	DTPYC9-F38-4-3-1-3-2-1-2-B*8
97	VL108729	CA00106-9-B-2-B*6
98	VL1243	WLS-F183-3-2-2-B-2-B*8
99	CML474	CML474
100	CL02450	CL02450

Table 18. Pedigree details of SCAT-1457 (Arbhavi)

Entry	Name	Pedigree
1	VL143569	(VH112650)-B-1
2	VL143570	(VH112650)-B-2
3	VL143571	(VH112650)-B-3
4	VL143572	(VH112650)-B-4
5	VL143573	(VH112650)-B-5
6	VL143574	(VH112650)-B-6
7	VL143575	(VH112650)-B-7
8	VL143576	(VH112650)-B-8
9	VL143577	(VH112650)-B-9
10	VL143578	(VH112650)-B-10
11	VL143579	(VH112650)-B-11
12	VL143580	(VH112650)-B-12
13	VL143581	(VH112650)-B-13
14	VL143582	(VH112650)-B-14
15	VL143583	(VH112650)-B-15
16	VL143584	(VH112650)-B-16
17	VL143585	(VH112650)-B-17
18	VL143586	(VH112650)-B-18
19	VL143587	(VH112650)-B-19
20	VL143588	(VH112650)-B-20
21	VL143589	(VH112650)-B-21
22	VL143590	(VH112650)-B-22
23	VL143591	(VH112650)-B-23
24	VL143592	(VH112650)-B-24
25	VL143593	(VH112650)-B-25
26	VL143594	(VH112650)-B-26
27	VL143595	(VH112650)-B-27
28	VL143596	(VH112650)-B-28
29	VL143597	(VH112650)-B-29
30	VL143598	(VH112650)-B-30
31	VL143599	(VH112650)-B-31
32	VL143600	(VH112650)-B-32
33	VL143601	(VH112650)-B-33
34	VL143602	(VH112650)-B-34
35	VL143603	(VH112650)-B-35
36	VL143604	(VH112650)-B-36
37	VL143605	(VH112650)-B-37
38	VL143606	(VH112650)-B-38
39	VL143607	(VH112650)-B-39
40	VL143608	(VH112650)-B-40
41	VL143609	(VH112650)-B-41
42	VL143610	(VH112650)-B-42
43	VL143611	(VH112650)-B-43
44	VL143612	(VH112650)-B-44
45	VL143613	(VH112650)-B-45
46	VL143614	(VH112650)-B-46
47	VL143615	(VH112650)-B-47
48	VL143616	(VH112650)-B-48
49	VL143617	(VH112650)-B-49
50	VL143618	(VH112650)-B-50
51	VL143619	(VH112650)-B-51
52	VL143620	(VH112650)-B-52
53	VL143621	(VH112650)-B-53
54	VL143622	(VH112650)-B-54

Table 18. Pedigree details of SCAT-1457 (Arbhavi)

Entry	Name	Pedigree
55	VL143623	(VH112650)-B-55
56	VL143624	(VH112650)-B-56
57	VL143625	(VH112650)-B-57
58	VL143626	(VH112650)-B-58
59	VL143627	(VH112650)-B-59
60	VL143628	(VH112650)-B-60
61	VL143629	(VH112650)-B-61
62	VL143630	(VH112650)-B-62
63	VL143631	(VH112650)-B-63
64	VL143632	(VH112650)-B-64
65	VL143633	(VH112650)-B-65
66	VL143634	(VH112650)-B-66
67	VL143635	(VH112650)-B-67
68	VL143636	(VH112650)-B-68
69	VL143637	(VH112650)-B-69
70	VL143638	(VH112650)-B-70
71	VL143639	(VH112650)-B-71
72	VL143640	(VH112650)-B-72
73	VL143641	(VH112650)-B-73
74	VL143642	(VH112650)-B-74
75	VL143643	(VH112650)-B-75
76	VL143644	(VH112650)-B-76
77	VL143645	(VH112650)-B-77
78	VL143646	(VH112650)-B-78
79	VL143647	(VH112650)-B-79
80	VL143648	(VH112650)-B-80
81	VL143649	(VH112650)-B-81
82	VL143650	(VH112650)-B-82
83	VL143651	(VH112650)-B-83
84	VL143652	(VH112650)-B-84
85	VL143653	(VH112650)-B-85
86	VL143654	(VH112650)-B-86
87	VL143655	(VH112650)-B-87
88	VL143656	(VH112650)-B-88
89	VL143657	(VH112650)-B-89
90	VL143658	(VH112650)-B-90
91	VL143659	(VH112650)-B-91
92	VL143660	(VH112650)-B-92
93	VL143661	(VH112650)-B-93
94	VL143662	(VH112650)-B-94
95	VL143663	(VH112650)-B-95
96	VL143664	(VH112650)-B-96
97	VL143665	(VH112650)-B-97
98	VL143666	(VH112650)-B-98
99	VL143667	(VH112650)-B-99
100	VL143668	(VH112650)-B-100
101	VL143669	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-1-B
102	VL143670	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-3-B
103	VL143671	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-4-B
104	VL143672	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-6-B
105	VL143673	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-13-B
106	VL143674	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-17-B
107	VL143675	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-21-B
108	VL143676	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-23-B

Table 18. Pedigree details of SCAT-1457 (Arbhavi)

Entry	Name	Pedigree
109	VL143677	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-26-B
110	VL143678	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-27-B
111	VL143679	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-30-B
112	VL143680	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-31-B
113	VL143681	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-32-B
114	VL143682	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-33-B
115	VL143683	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-37-B
116	VL143684	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-38-B
117	VL143685	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-39-B
118	VL143686	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-40-B
119	VL143687	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-52-B
120	VL143688	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-56-B
121	VL143689	(AMDROUT1(DT-Tester)c1/AMDROUT4(DT)c1)-57-B
122	VL143690	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-1-B
123	VL143691	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-4-B
124	VL143692	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-5-B
125	VL143693	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-6-B
126	VL143694	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-8-B
127	VL143695	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-12-B
128	VL143696	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-14-B
129	VL143697	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-20-B
130	VL143698	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-23-B
131	VL143699	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-24-B
132	VL143700	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-27-B
133	VL143701	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-28-B
134	VL143702	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-29-B
135	VL143703	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-33-B
136	VL143704	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-34-B
137	VL143705	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-35-B
138	VL143706	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-36-B
139	VL143707	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-38-B
140	VL143708	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-39-B
141	VL143709	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-40-B
142	VL143710	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-41-B
143	VL143711	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-42-B
144	VL143712	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-44-B
145	VL143713	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-45-B
146	VL143714	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-47-B
147	VL143715	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-53-B
148	VL143716	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-54-B
149	VL143717	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-58-B
150	VL143718	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-60-B
151	VL143719	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-62-B
152	VL143720	(AMDROUT1(DT-Tester)c1/AMDROUT2(Ac)c1)-64-B
153	VL143721	(CML444-1-B*4/AMDROUT2(Ac)c1)-1-B
154	VL143722	(CML444-1-B*4/AMDROUT2(Ac)c1)-2-B
155	VL143723	(CML444-1-B*4/AMDROUT2(Ac)c1)-4-B
156	VL143724	(CML444-1-B*4/AMDROUT2(Ac)c1)-5-B
157	VL143725	(CML444-1-B*4/AMDROUT2(Ac)c1)-6-B
158	VL143726	(CML444-1-B*4/AMDROUT2(Ac)c1)-7-B
159	VL143727	(CML444-1-B*4/AMDROUT2(Ac)c1)-9-B
160	VL143728	(CML444-1-B*4/AMDROUT2(Ac)c1)-11-B
161	VL143729	(CML444-1-B*4/AMDROUT2(Ac)c1)-13-B
162	VL143730	(CML444-1-B*4/AMDROUT2(Ac)c1)-14-B

Table 18. Pedigree details of SCAT-1457 (Arbhavi)

Entry	Name	Pedigree
163	VL143731	(CML444-1-B*4/AMDROUT2(Ac)c1)-15-B
164	VL143732	(CML444-1-B*4/AMDROUT2(Ac)c1)-16-B
165	VL143733	(CML444-1-B*4/AMDROUT2(Ac)c1)-17-B
166	VL143734	(CML444-1-B*4/AMDROUT2(Ac)c1)-18-B
167	VL143735	(CML444-1-B*4/AMDROUT2(Ac)c1)-21-B
168	VL143736	(CML444-1-B*4/AMDROUT2(Ac)c1)-22-B
169	VL143737	(CML444-1-B*4/AMDROUT2(Ac)c1)-23-B
170	VL143738	(CML444-1-B*4/AMDROUT2(Ac)c1)-26-B
171	VL143739	(CML444-1-B*4/AMDROUT2(Ac)c1)-27-B
172	VL143740	(CML444-1-B*4/AMDROUT3(DT)c1)-1-B
173	VL143741	(CML444-1-B*4/AMDROUT3(DT)c1)-3-B
174	VL143742	(CML444-1-B*4/AMDROUT3(DT)c1)-7-B
175	VL143743	(CML444-1-B*4/AMDROUT3(DT)c1)-8-B
176	VL143744	(CML444-1-B*4/AMDROUT3(DT)c1)-11-B
177	VL143745	(CML444-1-B*4/AMDROUT3(DT)c1)-15-B
178	VL143746	(CML444-1-B*4/AMDROUT3(DT)c1)-18-B
179	VL143747	(CML444-1-B*4/AMDROUT3(DT)c1)-19-B
180	VL143748	(CML444-1-B*4/AMDROUT3(DT)c1)-20-B
181	VL143749	(CML444-1-B*4/AMDROUT3(DT)c1)-23-B
182	VL143750	(CML444-1-B*4/AMDROUT3(DT)c1)-25-B
183	VL143751	(CML444-1-B*4/AMDROUT3(DT)c1)-28-B
184	VL143752	(CML444-1-B*4/AMDROUT3(DT)c1)-29-B
185	VL143753	(CML444-1-B*4/AMDROUT3(DT)c1)-30-B
186	VL143754	(CML444-1-B*4/AMDROUT3(DT)c1)-31-B
187	VL143755	(CML444-1-B*4/AMDROUT3(DT)c1)-32-B
188	VL143756	(CML444-1-B*4/AMDROUT3(DT)c1)-33-B
189	VL143757	(CML444-1-B*4/AMDROUT3(DT)c1)-34-B
190	VL143758	(CML444-1-B*4/AMDROUT3(DT)c1)-35-B
191	VL143759	(CML444-1-B*4/AMDROUT3(DT)c1)-36-B
192	VL143760	(CML444-1-B*4/AMDROUT3(DT)c1)-37-B
193	VL143761	(CML444-1-B*4/AMDROUT3(DT)c1)-39-B
194	VL143762	(CML444-1-B*4/AMDROUT3(DT)c1)-40-B
195	VL143763	(CML444-1-B*4/AMDROUT3(DT)c1)-45-B
196	VL143764	(CML444-1-B*4/AMDROUT3(DT)c1)-47-B
197	VL143765	(CML444-1-B*4/AMDROUT3(Ac)c1)-1-B
198	VL143766	(CML444-1-B*4/AMDROUT3(Ac)c1)-2-B
199	VL143767	(CML444-1-B*4/AMDROUT3(Ac)c1)-5-B
200	VL143768	(CML444-1-B*4/AMDROUT3(Ac)c1)-10-B
201	VL143769	(CML444-1-B*4/AMDROUT3(Ac)c1)-11-B
202	VL143770	(CML444-1-B*4/AMDROUT3(Ac)c1)-12-B
203	VL143771	(CML444-1-B*4/AMDROUT3(Ac)c1)-15-B
204	VL143772	(CML444-1-B*4/AMDROUT3(Ac)c1)-16-B
205	VL143773	(CML444-1-B*4/AMDROUT3(Ac)c1)-18-B
206	VL143774	(CML444-1-B*4/AMDROUT3(Ac)c1)-19-B
207	VL143775	(CML444-1-B*4/AMDROUT3(Ac)c1)-20-B
208	VL143776	(CML444-1-B*4/AMDROUT3(Ac)c1)-22-B
209	VL143777	(CML444-1-B*4/AMDROUT3(Ac)c1)-25-B
210	VL143778	(CML444-1-B*4/AMDROUT3(Ac)c1)-26-B
211	VL143779	(CML444-1-B*4/AMDROUT3(Ac)c1)-31-B
212	VL143780	(CML444-1-B*4/AMDROUT3(Ac)c1)-32-B
213	VL143781	(CML444-1-B*4/AMDROUT3(Ac)c1)-34-B
214	VL143782	(CML444-1-B*4/AMDROUT3(Ac)c1)-36-B
215	VL143783	(CML444-1-B*4/AMDROUT3(Ac)c1)-37-B
216	VL143784	(CML444-1-B*4/AMDROUT3(Ac)c1)-38-B

Table 18. Pedigree details of SCAT-1457 (Arbhavi)

Entry	Name	Pedigree
217	VL143785	(CML444-1-B*4/AMDROUT3(Ac)c1)-40-B
218	VL143786	(CML470-B*4/AMDROUT1(Ac)c1)-1-B
219	VL143787	(CML470-B*4/AMDROUT1(Ac)c1)-4-B
220	VL143788	(CML470-B*4/AMDROUT1(Ac)c1)-5-B
221	VL143789	(CML470-B*4/AMDROUT1(Ac)c1)-6-B
222	VL143790	(CML470-B*4/AMDROUT1(Ac)c1)-7-B
223	VL143791	(CML470-B*4/AMDROUT1(Ac)c1)-8-B
224	VL143792	(CML470-B*4/AMDROUT1(Ac)c1)-9-B
225	VL143793	(CML470-B*4/AMDROUT1(Ac)c1)-10-B
226	VL143794	(CML470-B*4/AMDROUT1(Ac)c1)-11-B
227	VL143795	(CML470-B*4/AMDROUT1(Ac)c1)-12-B
228	VL143796	(CML470-B*4/AMDROUT1(Ac)c1)-13-B
229	VL143797	(CML470-B*4/AMDROUT1(Ac)c1)-14-B
230	VL143798	(CML470-B*4/AMDROUT1(Ac)c1)-15-B
231	VL143799	(CML470-B*4/AMDROUT1(Ac)c1)-16-B
232	VL143800	(CML470-B*4/AMDROUT1(Ac)c1)-18-B
233	VL143801	(CML470-B*4/AMDROUT1(Ac)c1)-19-B
234	VL143802	(CML470-B*4/AMDROUT1(Ac)c1)-20-B
235	VL143803	(CML470-B*4/AMDROUT1(Ac)c1)-21-B
236	VL143804	(CML470-B*4/AMDROUT1(Ac)c1)-25-B
237	VL143805	(CML470-B*4/AMDROUT1(Ac)c1)-26-B
238	VL143806	(CML470-B*4/AMDROUT1(Ac)c1)-29-B
239	VL143807	(CML470-B*4/AMDROUT1(Ac)c1)-30-B
240	VL143808	(CML470-B*4/AMDROUT1(Ac)c1)-31-B
241	VL143809	(CML470-B*4/AMDROUT1(Ac)c1)-32-B
242	VL143810	(CML470-B*4/AMDROUT1(Ac)c1)-33-B
243	VL143811	(CML470-B*4/AMDROUT1(Ac)c1)-34-B
244	VL143812	(CML470-B*4/AMDROUT1(Ac)c1)-35-B
245	VL143813	(CML470-B*4/AMDROUT1(Ac)c1)-36-B
246	VL143814	(CML470-B*4/AMDROUT1(Ac)c1)-37-B
247	VL143815	(CML470-B*4/AMDROUT1(Ac)c1)-38-B
248	VL143816	(CML470-B*4/AMDROUT1(Ac)c1)-41-B
249	VL143817	(CML470-B*4/AMDROUT1(Ac)c1)-42-B
250	VL143818	(CML470-B*4/AMDROUT1(Ac)c1)-43-B
251	VL143819	(CML470-B*4/AMDROUT1(Ac)c1)-44-B
252	VL143820	(CML470-B*4/AMDROUT1(Ac)c1)-45-B
253	VL143821	(CML470-B*4/AMDROUT1(Ac)c1)-50-B
254	VL143822	(CML470-B*4/AMDROUT1(Ac)c1)-51-B
255	VL143823	(CML470-B*4/AMDROUT1(Ac)c1)-52-B
256	VL143824	(CML470-B*4/AMDROUT1(Ac)c1)-53-B
257	VL143825	(CML470-B*4/AMDROUT1(Ac)c1)-57-B
258	VL143826	(CML470-B*4/AMDROUT1(Ac)c1)-58-B
259	VL143827	(CML470-B*4/AMDROUT1(Ac)c1)-60-B
260	VL143828	(CML470-B*4/AMDROUT1(Ac)c1)-62-B

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Table 1. CAT1475 [VHTJ-1310 (Srinagar), VHTJ-138 (Bajaura)] -IET of Early duration yellow hybrids

Trait	50% Anthesis (days)			50% Silking (days)			50% Dry husk (days)	Plant height (cms)		
	SRIN	BAJA	Mean	SRIN	BAJA	Mean		SRIN	BAJA	Mean
1	71.1	54	62.5	74.8	56	65.4	97.5	171.6	190	180.8
2	66.5	54	60.3	70.8	56.5	63.6	103	163.2	187.5	175.3
3	63.0	60	61.5	65.9	62	63.9	102.5	177.9	182.5	180.2
4	68.1	55	61.5	70.6	57.5	64.1	101	171.8	170	170.9
5	63.7	56.5	60.1	67.1	59	63.0	101	170.6	180	175.3
6	61.1	56.5	58.8	64.6	59	61.8	101	168.8	187.5	178.2
7	61.8	52.5	57.2	64.7	54.5	59.6	96	164.7	202.5	183.6
8	61.5	57	59.3	64.2	59.5	61.9	101.5	169.1	183	176.1
9	60.6	52	56.3	63.5	55	59.3	97.5	161.2	177.5	169.3
10	59.1	54	56.5	61.6	56	58.8	99.5	171.1	190	180.5
11	67.1	55.5	61.3	70.8	58	64.4	102.5	168.8	167.5	168.2
12	72.0	57	64.5	74.4	59.5	67.0	106.5	172.4	187.5	179.9
13	73.2	55	64.1	75.5	57	66.3	93	174.1	155	164.5
14	60.3	56	58.1	63.0	58.5	60.8	102	164.7	157.5	161.1
15	62.7	52	57.3	64.9	54	59.4	101	164.4	192.5	178.5
16	63.5	53	58.2	66.4	55.5	60.9	96	168.1	185	176.6
17	63.4	57	60.2	66.3	59.5	62.9	101.5	168.6	165	166.8
18	60.7	60	60.3	63.5	62	62.7	109.5	162.7	170	166.3
19	63.7	55.5	59.6	66.6	58	62.3	105	171.5	175	173.2
20	64.6	52.5	58.6	67.5	54.5	61.0	97	172.2	182.5	177.3
21	68.7	53	60.9	72.2	55	63.6	99	176.5	160	168.3
22	67.7	49.5	58.6	71.4	52.5	61.9	96	165.7	160	162.9
23	63.8	56.5	60.1	66.1	59.5	62.8	93	165.4	152.5	158.9
24	59.2	53.5	56.4	62.4	55.5	58.9	105	166.5	182.5	174.5
25	64.9	52	58.4	68.3	54	61.1	96	161.6	150	155.8
26	66.1	54.5	60.3	69.6	57	63.3	104	166.8	192.5	179.6
27	63.4	57	60.2	66.2	59	62.6	103	168.5	200	184.3
28	65.7	59.5	62.6	69.1	61.5	65.3	105	171.7	190	180.8
29	64.7	57.5	61.1	66.6	60	63.3	101	177.9	182.5	180.2
30	70.3	56	63.2	73.6	58.5	66.1	102	156.8	182.5	169.7
31	68.0	55	61.5	70.8	57	63.9	104.5	170.7	185.5	178.1
32	69.5	57.5	63.5	73.4	60	66.7	103	170.9	175	172.9
33	59.2	58.5	58.8	61.6	61	61.3	111	174.2	155	164.6
34	60.0	59	59.5	62.9	61	61.9	107	163.4	195	179.2
35	61.8	59	60.4	65.0	61	63.0	108.5	174.6	190	182.3
36	64.1	56	60.0	67.5	58	62.8	112	166.4	197.5	182.0
37	66.9	58	62.5	71.0	60	65.5	105.5	161.8	170	165.9
38	70.1	58	64.0	73.2	60.5	66.9	102	176.4	202.5	189.4
39	64.1	55.5	59.8	68.0	58.5	63.2	115	176.1	222.5	199.3
40	67.2	59.5	63.4	71.1	61.5	66.3	116	166.4	225	195.7
Mean	64.8	55.8	60.3	67.9	58.1	63.0	102.6	168.9	181.5	175.2

Table 1. CAT1 Table 1. (Continued...)

Trait	Ear height (cms)			Shelling %			Grain Yield (Kg/ha)		
	SRIN	BAJA	Mean	SRIN	BAJA	Mean	SRIN	BAJA	Mean
1	77.9	102.5	90.2	74.3	80.0	77.1	8842.0	5569.1	7205.5
2	73.2	87.5	80.3	70.1	80.0	75.1	8115.3	7579.0	7847.1
3	80.0	97.5	88.7	66.2	80.0	73.1	7179.9	9739.3	8459.6
4	77.3	77.5	77.4	69.5	80.0	74.8	7316.4	8719.9	8018.2
5	76.7	95	85.9	71.3	80.0	75.6	8034.7	6801.7	7418.2
6	75.1	95	85.1	71.1	80.0	75.5	8034.7	7340.1	7687.4
7	81.9	100	91.0	71.8	80.0	75.9	8611.9	7453.3	8032.6
8	76.2	82.5	79.3	71.3	80.0	75.6	8065.9	8833.2	8449.5
9	80.6	92.5	86.6	73.9	80.0	77.0	8634.6	6127.9	7381.3
10	76.9	115	96.0	70.2	80.0	75.1	6758.7	8886.9	7822.8
11	75.8	97.5	86.7	71.2	80.0	75.6	6846.5	3341.1	5093.8
12	77.4	90	83.7	68.5	80.0	74.3	8006.1	8199.5	8102.8
13	78.1	75	76.6	71.7	80.0	75.9	8637.2	3054.6	5845.9
14	65.7	75	70.4	74.4	80.0	77.2	6817.2	7253.2	7035.2
15	81.8	115	98.4	74.1	80.0	77.0	8808.2	7756.3	8282.2
16	84.0	102.5	93.2	74.0	80.0	77.0	7048.0	6771.5	6909.7
17	84.3	90	87.1	73.8	80.0	76.9	7077.9	6627.2	6852.5
18	73.1	90	81.6	75.2	80.0	77.6	5634.2	5854.5	5744.3
19	77.0	70	73.5	70.6	80.0	75.3	6845.2	6186.8	6516.0
20	77.2	95	86.1	66.5	80.0	73.2	5501.6	5592.4	5547.0
21	79.3	77.5	78.4	73.2	80.0	76.6	8520.9	5075.8	6798.3
22	74.5	80	77.3	68.6	80.0	74.3	7187.1	6019.8	6603.4
23	82.6	87.5	85.0	75.0	80.0	77.5	7270.9	2492.2	4881.6
24	74.9	87.5	81.2	74.1	80.0	77.0	5898.8	8671.2	7285.0
25	81.1	70	75.6	74.7	80.0	77.3	7228.7	2927.4	5078.0
26	82.9	82.5	82.7	71.6	80.0	75.8	8792.6	6356.9	7574.7
27	75.7	105	90.3	72.5	80.0	76.3	7472.4	8045.4	7758.9
28	76.7	90	83.4	64.2	80.0	72.1	8466.3	9424.4	8945.3
29	71.1	94	82.5	67.8	80.0	73.9	7565.4	8754.0	8159.7
30	70.5	100	85.3	73.3	80.0	76.6	6749.6	4902.8	5826.2
31	76.0	102.5	89.2	74.5	80.0	77.3	6812.0	5656.5	6234.3
32	85.1	97.5	91.3	72.9	80.0	76.4	6325.2	7231.6	6778.4
33	78.3	70	74.1	66.9	80.0	73.5	8108.1	6893.9	7501.0
34	73.5	97.5	85.5	69.6	80.0	74.8	7440.6	7531.0	7485.8
35	78.5	90	84.2	64.3	80.0	72.1	8074.3	8390.8	8232.5
36	83.1	90	86.5	74.0	80.0	77.0	8628.1	6951.4	7789.8
37	72.8	72.5	72.6	71.6	80.0	75.8	6992.1	7616.5	7304.3
38	70.8	110	90.4	66.6	80.0	73.3	6241.3	8412.3	7326.8
39	70.7	115	92.9	74.0	80.0	77.0	5932.6	9096.6	7514.6
40	74.8	112.5	93.6	69.6	80.0	74.8	8547.5	9002.7	8775.1
Mean	77.1	91.9	84.5	71.2	80.0	75.6	7476.7	6928.5	7202.6
	Location			Srinagar		Bajaura			
	Plot size(sq.m)			6		3.6			
	Sowing date			30.06.2014		16.07.2014			
	Harvest date			15-10-2014		11.11.2014			

Table 2. CAT1476-IET of White QPM Hybrids (Srinagar)

Entry	50% Anthesis (days)	50% Silking (days)	Plant height (cms)	Ear height (cms)	Shelling %	Grain Yield (Kg/ha)
1	58.9	61.5	155.8	71.0	72.2	4557.4
2	68.7	72.1	173.5	83.0	72.0	4245.8
3	61.8	64.8	156.9	69.9	71.4	3861.7
4	62.6	66.4	170.7	73.3	69.6	4684.8
5	62.9	65.6	161.3	68.7	70.3	3893.1
6	69.7	73.6	172.6	80.8	71.2	3820.3
7	67.3	70.4	165.7	77.0	71.3	4452.9
8	68.3	71.5	173.5	78.9	71.0	4501.9
9	56.6	59.0	155.0	62.0	73.0	4609.8
10	63.4	67.0	171.4	79.1	70.8	4812.2
11	60.5	63.5	174.0	76.7	72.8	3505.2
12	67.9	72.3	175.7	76.0	70.9	3172.0
13	57.8	60.9	175.6	83.0	69.8	4743.3
14	60.6	63.3	168.8	82.1	71.3	4074.2
15	69.5	73.5	176.0	81.1	73.1	5042.3
16	68.6	72.9	161.6	75.5	68.9	4086.3
17	61.8	64.6	166.3	66.4	70.3	3452.8
18	60.4	63.8	169.1	76.7	71.4	4735.0
19	60.7	64.0	153.7	70.0	71.1	4319.5
20	61.1	65.8	173.3	77.3	70.9	3880.5
21	70.3	74.6	169.6	78.3	70.1	4251.4
22	62.7	66.7	164.3	74.1	71.5	4398.3
23	68.2	71.8	168.3	79.8	71.7	5088.2
24	58.8	62.7	156.2	77.9	72.7	4298.2
25	62.8	66.2	167.6	78.5	72.3	4559.1
26	61.1	64.9	163.0	76.7	70.9	4117.1
27	63.9	66.8	165.3	75.1	71.2	3663.8
28	68.0	61.8	168.9	82.3	73.1	4351.1
29	68.1	71.6	162.9	70.7	72.5	3979.7
30	67.3	70.6	169.4	84.0	70.4	4306.0
31	68.5	71.8	176.8	83.9	72.6	4060.8
32	66.3	68.7	166.0	77.3	73.1	4021.3
33	61.4	64.3	172.5	74.7	71.3	3874.0
34	59.5	63.0	177.1	78.5	70.9	4054.3
35	61.2	64.5	164.0	82.2	69.4	3980.6
36	58.7	61.5	171.3	82.0	70.8	4166.1
37	68.8	71.6	161.7	72.7	69.8	4202.9
38	60.2	63.7	160.9	80.4	72.0	4120.6
39	59.3	62.0	172.0	84.4	70.2	4695.2
40	58.8	61.6	173.1	86.5	70.4	3351.8
Mean	63.6	66.7	167.5	77.2	71.3	4199.8
Location						Srinagar
Plot size(sq.m)						6
Sowing date						30.06.2014
Harvest date						20-10-2014

IC45

Table 3. CAT1476-IET of White QPM Hybrids (Godra)

Entry	50% Anthesis (days)	50% Silking (days)	Plant height (cms)	Ear height (cms)	Shellin g %	50% Dry husk (days)	Grain Yield (Kg/ha)	Entry	50% Anthesis (days)	50% Silking (days)	Plant height (cms)	Ear height (cms)	Shellin g %	50% Dry husk (days)	Grain Yield (Kg/ha)
1	51.0	52.0	156.0	70.0	82.4	83.0	3942.0	44	51.0	52.0	145.0	53.0	86.2	83.0	2319.6
2	50.0	51.0	170.0	75.0	85.1	83.0	352.5	45	55.0	57.0	173.0	83.0	83.2	85.0	3257.8
3	54.0	55.0	148.0	75.0	80.1	84.0	2753.7	46	54.0	56.0	171.0	76.0	89.4	85.0	1635.1
4	55.0	56.0	163.0	75.0	84.2	84.0	1874.1	47	56.0	58.0	185.0	88.0	83.3	87.0	840.7
5	51.0	52.0	165.0	71.0	80.6	83.0	4166.0	48	55.0	56.0	163.0	73.0	77.2	87.0	3079.3
6	50.0	51.0	160.0	71.0	83.8	83.0	1819.0	49	47.0	48.0	166.0	76.0	81.3	79.0	1521.5
7	47.0	48.0	170.0	66.0	81.4	80.0	2721.3	50	52.0	53.0	151.0	56.0	84.6	84.0	353.8
8	50.0	51.0	156.0	75.0	83.3	83.0	3292.7	51	53.0	54.0	150.0	68.0	82.9	85.0	340.0
9	49.0	51.0	156.0	78.0	82.5	83.0	2209.2	52	54.0	55.0	150.0	66.0	85.2	86.0	712.1
10	47.0	48.0	171.0	78.0	84.6	81.0	1931.6	53	54.0	55.0	120.0	43.0	82.9	85.0	1194.3
11	47.0	48.0	156.0	61.0	78.5	80.0	2129.8	54	48.0	49.0	170.0	76.0	86.0	80.0	2327.3
12	50.0	51.0	141.0	45.0	83.4	80.0	1370.3	55	53.0	54.0	140.0	66.0	86.7	85.0	1631.1
13	47.0	48.0	140.0	52.0	77.6	81.0	4054.7	56	47.0	48.0	153.0	66.0	82.6	80.0	3707.4
14	47.0	48.0	150.0	61.0	87.2	81.0	4874.1	57	54.0	55.0	143.0	50.0	82.9	85.0	6818.9
15	47.0	48.0	156.0	65.0	89.6	80.0	2439.6	58	53.0	56.0	160.0	70.0	81.4	85.0	1519.8
16	47.0	48.0	153.0	43.0	83.6	80.0	858.1	59	52.0	53.0	156.0	70.0	85.9	85.0	2696.1
17	47.0	48.0	160.0	58.0	82.9	86.0	2945.8	60	51.0	52.0	170.0	90.0	82.4	83.0	3385.8
18	50.0	51.0	166.0	85.0	58.2	83.0	2033.9	61	47.0	48.0	170.0	76.0	77.1	80.0	2749.3
19	50.0	51.0	170.0	65.0	86.5	83.0	3936.0	62	54.0	55.0	148.0	65.0	79.1	85.0	2783.9
20	50.0	51.0	166.0	55.0	84.6	83.0	4475.5	63	54.0	55.0	138.0	55.0	67.5	85.0	415.4
21	50.0	51.0	141.0	61.0	83.9	83.0	2274.6	64	47.0	48.0	160.0	61.0	85.1	85.0	2424.7
22	55.0	56.0	180.0	93.0	81.6	85.0	1509.2	65	47.0	48.0	180.0	86.0	85.7	80.0	2282.8
23	50.0	51.0	218.0	116.0	82.6	83.0	4453.6	66	51.0	52.0	153.0	58.0	84.1	83.0	1709.0
24	47.0	48.0	156.0	65.0	85.3	80.0	1451.7	67	52.0	53.0	156.0	65.0	84.7	85.0	1390.3
25	47.0	48.0	153.0	60.0	81.8	80.0	2242.6	68	52.0	53.0	141.0	53.0	84.3	85.0	2269.9
26	47.0	48.0	161.0	66.0	85.1	80.0	1236.8	69	47.0	48.0	151.0	61.0	82.1	80.0	1027.2
27	53.0	54.0	158.0	61.0	81.2	85.0	1000.9	70	47.0	48.0	155.0	65.0	81.8	80.0	3741.2
28	51.0	52.0	158.0	71.0	82.9	83.0	3469.6	71	47.0	48.0	135.0	50.0	93.3	79.0	1135.1
29	47.0	48.0	158.0	71.0	77.1	80.0	4898.7	72	47.0	48.0	130.0	50.0	64.8	80.0	2663.7
30	47.0	48.0	176.0	83.0	80.9	80.0	675.3	73	47.0	48.0	213.0	113.0	85.3	80.0	3542.0
31	49.0	50.0	158.0	71.0	83.8	82.0	1714.5	74	47.0	48.0	148.0	55.0	85.5	80.0	3926.4
32	55.0	56.0	151.0	70.0	81.2	85.0	3069.2	75	54.0	55.0	180.0	78.0	83.1	85.0	340.8
33	55.0	56.0	180.0	93.0	84.5	85.0	3817.1	76	47.0	48.0	185.0	85.0	85.5	80.0	1073.3
34	47.0	48.0	153.0	68.0	81.5	79.0	4401.1	77	54.0	55.0	155.0	63.0	87.9	85.0	1644.0
35	56.0	57.0	156.0	75.0	82.5	85.0	5551.8	78	47.0	48.0	138.0	55.0	85.8	80.0	4849.2
36	51.0	52.0	153.0	63.0	83.3	83.0	3801.5	79	47.0	48.0	146.0	63.0	79.6	80.0	4123.0
37	52.0	53.0	160.0	76.0	85.4	84.0	3513.0	80	51.0	52.0	153.0	75.0	85.8	83.0	1413.1
38	55.0	51.0	155.0	66.0	80.1	83.0	4320.2	81	46.0	47.0	130.0	58.0	82.0	79.0	5206.5
39	50.0	51.0	143.0	60.0	87.2	83.0	4994.9	82	53.0	54.0	171.0	83.0	82.3	85.0	4940.1
40	52.0	53.0	151.0	68.0	81.9	85.0	3693.4	83	52.0	53.0	170.0	76.0	80.7	85.0	3153.1
41	52.0	53.0	191.0	83.0	83.4	84.0	2875.1	84	53.0	54.0	216.0	116.0	80.4	85.0	1482.1
42	53.0	54.0	146.0	60.0	85.4	85.0	2269.5	85	53.0	54.0	205.0	108.0	91.7	85.0	1519.7

Table 3. CAT1476-IET of White QPM Hybrids (Godra)

Entry	50% Anthesis (days)	50% Silking (days)	Plant height (cms)	Ear height (cms)	Shelling g %	50% Dry husk (days)	Grain Yield (Kg/ha)	Entry	50% Anthesis (days)	50% Silking (days)	Plant height (cms)	Ear height (cms)	Shelling g %	50% Dry husk (days)	Grain Yield (Kg/ha)	
43	47.0	48.0	151.0	66.0	70.8	49.0	886.5	86	47.0	48.0	141.0	55.0	83.4	80.0	3431.8	
87	51.0	52.0	166.0	75.0	84.0	85.0	3524.7	110	47.0	48.0	145.0	46.0	83.8	79.0	3490.2	
88	53.0	54.0	178.0	80.0	74.4	85.0	2624.3	111	51.0	52.0	171.0	76.0	80.3	84.0	3962.9	
89	53.0	54.0	130.0	46.0	83.3	85.0	513.5	112	46.0	47.0	166.0	66.0	78.5	79.0	3289.8	
90	49.0	50.0	160.0	56.0	83.3	82.0	871.5	113	49.0	50.0	128.0	36.0	86.1	82.0	3236.3	
91	47.0	48.0	156.0	63.0	88.7	80.0	919.3	114	49.0	50.0	151.0	60.0	82.3	82.0	2736.7	
92	47.0	48.0	171.0	81.0	88.0	79.0	1084.2	115	49.0	50.0	150.0	48.0	86.1	82.0	2343.5	
93	48.0	49.0	150.0	50.0	82.2	82.0	1369.6	116	51.0	52.0	166.0	70.0	82.2	83.0	4736.3	
94	50.0	51.0	170.0	70.0	80.0	82.0	1512.4	117	53.0	54.0	143.0	50.0	82.0	85.0	2045.6	
95	47.0	48.0	150.0	63.0	86.4	79.0	3989.3	118	52.0	53.0	135.0	43.0	81.5	84.0	1194.4	
96	47.0	48.0	170.0	83.0	82.0	80.0	1221.6	119	47.0	48.0	148.0	61.0	81.0	79.0	4104.6	
97	47.0	48.0	173.0	53.0	82.9	80.0	1231.5	120	48.0	49.0	168.0	71.0	85.4	80.0	351.2	
98	48.0	49.0	153.0	60.0	87.9	81.0	5857.7	121	47.0	48.0	156.0	63.0	84.5	79.0	5614.5	
99	48.0	49.0	165.0	58.0	84.2	80.0	1579.8	122	54.0	55.0	160.0	63.0	87.0	85.0	1430.3	
100	48.0	49.0	151.0	56.0	83.2	80.0	2110.0	123	56.0	55.0	165.0	73.0	82.9	86.0	700.6	
101	52.0	53.0	170.0	70.0	79.5	82.0	1500.7	124	54.0	55.0	141.0	58.0	87.1	87.0	3614.6	
102	52.0	53.0	166.0	71.0	82.4	85.0	1028.5	125	52.0	53.0	148.0	63.0	84.8	84.0	3452.2	
103	52.0	53.0	163.0	66.0	79.2	86.0	648.1	126	47.0	48.0	160.0	70.0	85.9	79.0	4722.4	
104	52.0	53.0	173.0	73.0	81.1	84.0	989.7	127	47.0	48.0	163.0	73.0	82.8	81.0	4876.8	
105	47.0	48.0	130.0	43.0	68.4	79.0	3559.4	128	53.0	54.0	150.0	61.0	83.9	85.0	4901.2	
106	47.0	48.0	170.0	75.0	83.3	79.0	703.4	129	52.0	53.0	161.0	70.0	84.7	86.0	703.5	
107	53.0	54.0	146.0	53.0	81.7	85.0	1015.5	130	51.0	52.0	165.0	73.0	79.8	85.0	2300.1	
108	47.0	48.0	148.0	60.0	83.9	79.0	3546.1	131	52.0	53.0	173.0	70.0	83.9	85.0	872.5	
109	47.0	48.0	141.0	40.0	86.9	79.0	2367.1	Mean	50.1	51.1	158.6	68.0	82.7	82.2	2803.9	
															Location	Godra
															Plot size(sq.m)	2.4
															Sowing date	17.07.2014
															Harvest date	06.11.2014

IC47

Table 4. CAT1431 [ABHT-29] - Advance stage early-medium maturity yellow hybrids-Set 4

Entry	50% Anthesis (days)	50% Silking (days)	Plant height (cms)	Ear height (cms)	Shelling %	Grain Yield (Kg/ha)
1	54.5	60.0	130.0	82.5	72.6	270.3
2	52.5	57.5	112.5	77.5	58.3	145.8
3	52.0	63.0	115.0	80.0		
4	55.0	61.5	112.5	72.5	60.3	207.8
5	52.0	56.0	100.0	60.0	75.0	125.0
6	58.0	65.5	117.5	72.5	55.6	125.0
7	52.0	62.0	107.5	60.0	45.0	104.2
8	59.5	66.5	82.5	57.5	82.4	582.6
9	51.0	55.5	141.5	95.0	65.2	1145.2
10	54.0	60.5	110.0	77.5	63.3	208.9
11	51.5	63.0	107.5	77.5	65.6	436.5
12	54.0	62.5	85.0	60.0	77.5	395.8
13	52.5	60.0	107.5	65.0	75.0	125.0
14	57.0	64.5	75.0	50.0		
15	52.5	63.5	102.5	82.5	65.7	229.3
16	58.5	66.5	72.5	50.0	55.0	167.1
17	57.0	66.5	100.0	70.0	75.0	374.6
18	54.0	64.5	117.5	65.0	57.1	166.7
19	55.5	64.0	110.0	62.5	58.3	166.7
20	53.0	59.5	117.5	80.0	60.0	166.5
21	52.5	60.5	100.0	65.0	59.7	913.5
22	52.0	58.5	120.0	65.0	62.9	541.2
23	59.0	67.0	125.0	95.0	71.4	208.3
24	55.0	62.0	110.0	70.0	66.7	250.0
25	54.5	63.0	95.0	57.5	58.3	104.2
Mean	54.4	62.1	107.0	70.0	64.6	311.3
					Location	Begusarai
					Plot size(sq.m)	2.4
					Sowing date	13.07.2014
					Harvest date	21.10.2014

IC48

Table 5. CAT1431 [ABHT-112] - Advance stage early-medium maturity yellow hybrids-Set 4

Entry	50% Anthesis (days)	50% Silking (days)	Plant height (cms)	Ear height (cms)	Shelling %	Grain Yield (Kg/ha)
1	53.5	60.5	117.5	67.5	85.4	1512.0
2	54.0	59.0	120.0	72.5	74.6	353.4
3	52.5	59.5	122.5	82.5	77.5	1285.6
4	50.5	59.0	100.0	62.5	71.4	477.4
5	55.5	64.5	125.0	80.0	71.6	643.4
6	52.5	59.5	115.0	67.5	62.6	1207.9
7	55.0	62.0	107.5	72.5	65.2	312.0
8	59.0	68.0	90.0	52.5	63.6	291.7
9	55.5	65.5	115.0	70.0	69.4	1023.2
10	53.0	61.0	122.5	77.5	75.8	478.1
11	51.5	56.5	112.5	70.0	80.0	915.3
12	53.5	63.0	102.5	59.5	89.1	892.7
13	54.5	65.0	130.0	80.0	82.7	1163.9
14	54.0	62.0	110.0	65.0	78.1	918.2
15	56.0	65.5	107.5	55.0	77.8	705.9
16	53.0	62.0	107.5	72.5	82.3	437.5
17	53.5	63.5	125.0	80.0	79.5	1122.5
18	53.5	60.0	130.0	80.0	76.0	1618.7
19	56.5	65.5	120.0	77.5	76.9	622.1
20	51.5	56.5	105.0	67.5	82.9	537.3
21	57.5	65.5	115.0	77.5	73.9	434.9
22	50.0	56.0	117.5	77.5	85.1	1370.6
23	53.0	61.0	130.0	82.5	71.8	645.2
24	56.0	63.5	95.0	60.0	64.8	437.9
25	52.5	61.0	122.5	72.5	74.8	2032.4
26	55.5	65.5	112.5	65.0	78.7	1217.3
27	55.0	66.0	120.0	80.0	70.5	291.4
28	55.0	63.0	105.0	52.5	80.4	1744.2
29	51.0	55.0	117.5	70.0	73.4	663.8
30	55.5	63.0	130.0	75.0	75.7	437.5
31	57.0	65.0	95.0	55.0	60.0	62.5
32	55.5	63.5	130.0	82.5	79.9	1963.2
33	52.0	59.5	117.5	75.0	82.4	1973.4
34	53.5	61.0	102.5	65.0	76.6	771.2
35	58.0	66.5	110.0	67.5	63.1	352.7
36	56.0	62.5	117.5	62.5		
37	60.0	68.5	105.0	57.5	73.4	581.7
38	52.0	60.0	105.0	60.0	78.9	1054.3
39	56.0	64.5	107.5	60.0	74.6	457.2

IC49

Table 5. CAT1431 [ABHT-112] - Advance stage early-medium maturity yellow hybrids-Set 4

Entry	50% Anthesis (days)	50% Silking (days)	Plant height (cms)	Ear height (cms)	Shelling %	Grain Yield (Kg/ha)
40	58.0	67.0	90.0	52.5	73.0	557.5
41	59.5	67.5	97.5	62.5	70.0	145.8
42	51.5	59.5	125.0	75.0	85.2	706.3
43	57.5	63.5	95.0	62.5	82.4	892.7
44	56.0	62.0	120.0	67.5	79.3	1179.7
45	53.0	58.5	121.5	70.0	80.5	500.1
46	53.5	59.5	115.0	75.0	77.7	1434.3
47	53.5	59.5	120.0	75.0	78.3	1699.2
48	55.0	65.0	115.0	67.5	77.1	416.4
49	52.0	56.0	100.0	60.0	82.6	929.7
50	55.0	64.5	110.0	62.5	78.3	706.3
51	50.0	55.0	110.0	70.0	82.0	2074.8
52	57.0	64.5	105.0	60.0	65.2	396.0
53	53.0	61.0	102.5	65.0	78.7	769.7
54	55.0	64.5	137.5	80.0	83.8	1548.5
55	53.5	61.0	125.0	67.5	83.1	1905.8
56	52.0	58.5	117.5	75.0	76.7	913.4
57	58.0	66.0	117.5	67.5	73.3	166.7
58	55.5	63.0	110.0	72.5	78.7	622.9
59	53.0	63.0	105.0	60.0	75.7	1145.8
60	55.5	62.5	132.5	75.0	85.5	454.8
Mean	54.4	62.2	113.5	68.9	76.4	884.3
					Location	Begusarai
					Plot size(sq.m)	2.4
					Sowing date	13.07.2014
					Harvest date	21.10.2014

IC50

Table 6. CAT1432 [ADWUTC-19] - Advance stage early-medium maturity yellow hybrids-Set 5

Entry	50% Anthesis (days)	50% Silking (days)	Plant height (cms)	Ear height (cms)	Shelling %	Grain Yield (Kg/ha)
1	50.5	55.5	135.0	82.5	78.0	1488.9
2	53.0	57.0	135.0	80.0	68.8	353.6
3	52.0	56.0	127.5	70.0	76.0	1035.2
4	52.5	56.5	105.0	52.5	76.9	868.8
5	51.5	57.5	105.0	60.0	81.3	2958.1
6	51.0	54.0	145.0	80.0	71.1	1552.7
7	53.0	59.0	102.5	55.0	91.4	1322.4
8	53.0	60.0	120.0	62.5	71.8	1012.1
9	53.5	57.5	95.0	40.0	73.7	1240.0
10	52.5	55.5	120.0	70.0	77.5	1118.0
11	52.5	60.5	80.0	35.0	71.3	684.0
12	52.5	57.0	125.0	75.0	66.2	620.9
13	51.0	55.5	110.0	67.5	77.3	1571.3
14	52.5	57.0	95.0	102.5	65.9	954.1
15	49.5	56.5	125.0	85.0	68.9	1096.9
16	54.5	59.5	95.0	40.0	63.8	643.4
17	54.0	61.0	95.0	47.5	68.4	1035.2
18	52.0	58.5	102.5	60.0	63.8	686.0
19	52.5	57.0	155.0	80.0	66.7	165.9
20	49.0	55.0	120.0	60.0	84.0	868.8
21	54.0	57.5	117.5	60.0	79.0	579.5
22	54.5	63.5	90.0	55.0	71.4	311.5
23	53.0	60.0	112.5	52.5	71.3	1402.6
24	51.5	56.5	115.0	65.0	70.4	1016.1
25	52.5	60.0	115.0	65.0	81.9	1306.3
26	53.5	61.0	102.5	57.5	73.3	890.8
27	52.0	60.0	115.0	67.5	76.5	2004.9
28	57.5	65.0	87.5	55.0	66.3	496.6
29	54.0	57.0	125.0	62.5	80.7	870.4
30	54.0	62.0	130.0	62.5	78.1	806.5
31	52.5	59.0	112.5	65.0	70.2	374.0
32	52.0	55.5	115.0	50.0	76.0	1343.4
33	53.0	60.5	102.5	55.0	76.3	952.3
34	52.5	56.5	127.5	82.5	73.7	681.6
35	52.0	57.0	112.5	55.0	76.5	1548.7
36	53.5	60.5	112.5	52.5	72.5	888.2
37	53.0	60.5	122.5	72.5	79.8	1635.4
38	52.5	57.0	127.5	67.5	72.6	992.7
39	52.5	57.0	142.5	75.0	77.1	2670.3
40	55.0	60.5	110.0	62.5	69.4	517.0
41	52.0	57.0	130.0	75.0	72.0	2008.3
42	53.0	63.0	127.5	70.0	63.3	208.3
43	53.0	59.0	127.5	82.5	69.0	435.4
44	51.5	55.5	120.0	62.5	72.9	559.2
45	54.0	56.5	97.5	55.0	75.9	454.6

IC51

Table 6. CAT1432 [ADWUTC-19] - Advance stage early-medium maturity yellow hybrids-Set 5

Entry	50% Anthesis (days)	50% Silking (days)	Plant height (cms)	Ear height (cms)	Shelling %	Grain Yield (Kg/ha)
46	52.5	57.0	120.0	67.5	78.7	662.0
47	55.5	63.0	92.5	52.5	80.9	434.3
48	51.5	58.5	127.5	77.5	75.6	1159.2
49	53.0	57.5	107.5	55.0	70.0	868.8
50	51.5	55.0	145.0	87.5	73.5	1839.9
51	53.5	56.5	112.5	55.0	73.3	1511.1
52	52.5	56.5	122.5	70.0	76.8	808.3
53	56.0	62.0	120.0	70.0	78.8	1903.2
54	53.5	57.0	100.0	62.5	74.6	1488.4
55	52.5	57.0	125.0	65.0	72.9	1451.2
56	54.5	60.0	110.0	65.0	81.4	909.6
57	51.0	56.5	95.0	57.5	74.0	1615.7
58	52.0	57.5	127.5	82.5	68.9	849.0
59	52.0	58.5	145.0	87.5	67.5	867.8
60	54.5	60.5	87.5	50.0	80.0	1304.8
61	53.5	57.0	125.0	75.0	75.2	828.2
62	52.5	56.0	135.0	70.0	80.4	1756.5
63	51.5	55.5	142.5	70.0	79.1	517.3
64	51.5	56.0	142.5	92.5	84.3	1403.3
65	54.5	60.5	100.0	70.0	68.0	641.9
66	54.0	56.5	155.0	82.5	83.6	1036.3
67	53.0	59.0	107.5	67.5	75.5	951.0
68	52.5	57.0	127.5	72.5	74.6	951.5
69	54.0	59.5	87.5	45.0	72.2	848.2
70	53.5	57.5	87.5	47.5	74.1	663.6
71	58.0	56.5	125.0	80.0	72.5	703.1
72	52.5	57.0	125.0	80.0	74.0	642.2
73	51.5	60.0	112.5	55.0	65.0	414.6
74	52.5	57.5	107.5	60.0	63.5	497.5
75	56.5	56.5	105.0	57.5	76.4	1511.9
76	53.0	57.5	107.5	60.0	73.5	745.6
77	53.0	60.0	112.5	67.5	67.2	724.0
78	52.5	57.0	115.0	60.0	65.6	910.1
79	54.5	63.5	105.0	47.5	74.2	930.9
80	54.5	64.0	137.5	75.0	76.2	683.2
81	52.5	60.0	140.0	70.0	76.9	1860.0
82	56.5	66.5	92.5	52.5	57.1	83.3
83	53.5	59.0	115.0	55.0	62.5	805.8
84	53.5	57.0	140.0	87.5	70.8	1114.1
85	54.0	57.5	140.0	72.5	74.8	1345.5
Mean	53.0	58.4	116.7	65.5	73.6	1017.3
Location						Begusarai
Plot size(sq.m)						2.4
Sowing date						13.07.2014
Harvest date						21.10.2014

IC52

Table 7. CAT1432 [ADWBCTC-114] - Advance stage early-medium maturity yellow hybrids-Set 5

Entry	50% Anthesis (days)	50% Silking (days)	Plant height (cms)	Ear height (cms)	Shelling %	Grain Yield (kg/ha)
1	56.0	63.5	105.0	72.5	70.2	1161.1
2	53.5	59.0	117.5	65.0	75.3	830.5
3	54.5	66.0	107.5	60.0	87.3	705.7
4	53.5	62.0	127.5	77.5	82.7	1438.0
5	53.5	62.5	97.5	57.5	75.4	602.9
6	56.0	65.0	102.5	62.5	83.6	873.7
7	54.5	65.5	85.0	50.0	84.5	1120.5
8	56.0	66.0	115.0	75.0	69.9	875.0
9	57.0	65.0	95.0	55.0	71.4	726.6
10	54.5	64.5	115.0	62.5	73.2	707.9
11	52.5	56.0	105.0	67.5	76.9	1372.4
12	52.5	63.5	100.0	65.0	70.1	250.2
13	55.5	64.5	107.5	70.0	72.3	584.1
14	52.5	62.0	105.0	70.0	85.6	871.5
15	54.0	63.0	102.5	70.0	81.1	686.7
16	57.5	66.5	105.0	62.5	78.9	311.0
17	52.0	60.0	105.0	62.5	81.0	561.5
18	51.0	56.0	115.0	75.0	78.0	663.5
19	54.5	64.0	130.0	82.5	80.5	584.0
20	52.5	62.0	130.0	90.0	65.2	229.9
Mean	54.2	62.8	108.6	67.6	77.2	757.8
Location						Begusarai
Plot size(sq.m)						2.4
Sowing date						13.07.2014
Harvest date						21.10.2014

Table 8. CAT1433 [AWWTC-15] - Advance stage early-medium maturity yellow hybrids-Set 6

Entry	50% Anthesis (days)	50% Silking (days)	Plant height (cms)	Ear height (cms)	Shelling %	Grain Yield (Kg/ha)
1	53.0	67.0	135.0	80.0	70.0	291.0
2	58.0	66.0	110.0	90.0	33.3	20.8
3	51.5	58.5	107.5	82.5	69.0	187.5
4	51.0	59.0	160.0	85.0	85.7	374.1
5	54.0	60.5	122.5	80.0	70.8	290.8
6	54.0	61.0	110.0	65.0	66.7	248.8
7	53.5	63.5	95.0	65.0	54.8	145.8
8	54.0	61.5	87.5	55.0	71.4	104.2
9	54.5	60.5	92.5	65.0	61.3	271.1
10	49.0	56.0	135.0	110.0	80.8	436.0
11	53.0	62.5	112.5	77.5	72.0	1038.3
12	58.0	59.0	135.0	70.0	73.9	353.3
13	56.0	61.0	80.0	52.5	79.1	789.8
14	54.5	59.0	95.0	62.5	85.7	125.0
15	57.0	67.0	125.0	90.0		0.0
16	51.0	56.0	115.0	80.0	80.0	83.3
17	51.5	55.5	150.0	90.0	65.4	1142.1
18	52.0	57.5	115.0	82.5	68.6	333.6
19	53.0	61.0	105.0	75.0	66.7	124.9
20	56.5	64.0	102.5	72.5	55.0	104.2
21	51.5	59.0	110.0	80.0	63.1	416.3
22	52.0	56.0	115.0	75.0	75.0	248.5
23	52.0	64.0	97.5	60.0	63.3	166.7
24	52.0	59.5	105.0	57.5	72.2	291.0
25	58.0	66.0	115.0	85.0	40.0	41.7
26	53.5	63.0	132.5	82.5	80.6	602.0
27	50.5	61.5	97.5	70.0	79.5	395.1
28	54.0	59.0	130.0	95.0	60.0	62.5
29	57.0	61.0	92.5	62.5	85.7	373.7
30	55.5	59.0	105.0	75.0	70.0	293.0
31	50.0	64.0	165.0	95.0	77.8	144.6
32						0.0
33	52.0	58.0	110.0	75.0		0.0
34	51.0	58.0	100.0	70.0	77.5	646.6
35	58.0	61.0	90.0	60.0	83.3	208.3
36	54.0	65.0	85.0	55.0	62.5	104.2
37	54.0	60.0	85.0	60.0	80.0	249.4
38	53.0	58.0	100.0	55.0	64.7	229.4
39	50.0	64.0	135.0	82.5	71.8	331.4
40	57.0	68.0	60.0	35.0	60.0	125.0
41						0.0
42	50.0	55.0	120.0	85.0	78.3	1121.0
43	54.0	62.0	100.0	75.0	70.0	146.0
44						0.0
45	49.0	58.0		85.0	90.0	187.7
46	51.5	57.5	107.5	65.0	73.3	416.3
47	52.5	60.0	105.0	67.5	79.4	643.2
48	55.0	64.0	90.0	65.0	67.4	705.1

IC54

Table 8. CAT1433 [AWWTC-15] - Advance stage early-medium maturity yellow hybrids-Set 6

Entry	50% Anthesis (days)	50% Silking (days)	Plant height (cms)	Ear height (cms)	Shelling %	Grain Yield (Kg/ha)
49	52.0	61.5	130.0	90.0	78.4	373.9
50						0.0
51	51.0	60.0	100.0	70.0	33.3	20.8
52	51.5	58.0	110.0	72.5	76.1	847.6
53	54.5	64.0	95.0	67.5	69.0	229.0
54	53.0	59.0	90.0	50.0	50.0	104.2
55						0.0
56	51.0	55.0	170.0	80.0	77.8	289.3
57	53.5	63.5	102.5	70.0	80.0	331.8
58	51.0	55.0	115.0	70.0	85.0	353.8
59	52.0	58.0	120.0	75.0	81.0	353.3
60	55.0	60.0	110.0	80.0	60.0	436.0
61	52.5	59.5	115.0	75.0	74.2	395.1
62	51.0	56.5	125.0	77.5	63.7	540.5
63	54.0	59.0	90.0	55.0	75.0	62.5
64	51.5	58.5	90.0	62.5	66.1	998.4
65	52.5	59.5	107.5	72.5	79.1	456.0
66	59.0	65.0	115.0	85.0	71.4	104.2
67	51.0	60.0	145.0	85.0	71.4	104.2
68	50.0	56.0	115.0	45.0	76.5	271.2
69						0.0
70	54.0	61.0	102.5	70.0	76.2	415.8
71	58.0	65.0	135.0	65.0	83.3	104.2
72	56.0	61.0	70.0	55.0	55.6	104.2
73	51.0	56.0	110.0	80.0	77.8	145.5
74	53.0	59.0	128.5	85.0	63.3	145.8
75	50.0	55.5	132.5	70.0	66.7	208.3
76	54.5	59.5	102.5	72.5	72.2	187.3
77	58.0	62.0	160.0	90.0	81.8	188.2
78						0.0
79	55.0	62.0	125.0	80.0	76.5	541.0
80	53.0	58.5	112.5	82.5	66.1	479.2
81	52.0	62.0	112.5	80.0	66.7	83.3
82	55.0	61.5	102.5	72.5	65.7	394.6
83	52.5	58.5	110.0	85.0	65.2	790.7
84	54.5	64.0	107.5	75.0	61.7	250.5
85	55.0	62.0	135.0	70.0	60.0	62.5
86	51.0	62.0	90.0	60.0	42.9	62.5
87						0.0
88	51.0	55.0	100.0	75.0	76.9	208.1
89	57.0	67.0	120.0	75.0	68.2	313.2
90	54.0	60.0	115.0	75.0	67.9	789.8
Mean	53.3	60.4	111.8	73.2	70.0	292.9
					Location	Begusarai
					Plot size(sq.m)	2.4
					Sowing date	13.07.2014
					Harvest date	21.10.2014

IC55

Table 9. CAT1433 [AWWTC-25] - Advance stage early-medium maturity yellow hybrids-Set 6

Entry	50% Anthesis (days)	50% Silking (days)	Plant height (cms)	Ear height (cms)	Shelling %	Grain Yield (Kg/ha)
1	54.5	61.5	105.0	82.5	79.7	812.0
2	55.0	60.5	110.0	60.0	75.8	396.7
3	55.0	59.5	130.0	60.0	75.1	644.9
4	54.0	58.0	142.5	87.5	78.0	1641.6
5	55.0	63.5	145.0	100.0	73.5	892.5
6	53.0	56.0	110.0	60.0	76.1	726.6
7	55.5	61.0	142.5	87.5	85.9	932.4
8	54.5	60.5	115.0	77.5	73.6	994.5
9	54.5	64.5	90.0	55.0	72.5	209.0
10	56.5	64.0	147.5	85.0	64.3	292.4
11	54.0	62.0	95.0	60.0	85.7	249.7
12	54.5	58.5	92.5	60.0	74.1	415.2
13	55.5	59.0	125.0	70.0	89.0	620.6
14	55.0	61.0	125.0	80.0	76.2	291.1
15	51.0	57.5	115.0	65.0	80.5	1448.0
16	56.0	62.5	107.5	57.5	78.6	478.3
17	55.5	59.0	100.0	57.5	83.0	1099.3
18	55.5	64.0	117.5	82.5	43.8	208.4
19	54.5	58.5	107.5	65.0	86.2	746.8
20	56.0	60.0	130.0	72.5	57.1	580.0
21	55.0	65.0	100.0	62.5	84.7	664.3
22	55.5	61.0	87.5	45.0	83.0	456.9
23	55.0	61.0	110.0	67.5	78.4	376.5
24	56.0	62.5	112.5	55.0	60.0	458.3
25	52.5	56.5	102.5	62.5	55.6	520.2
26	54.5	61.0	135.0	85.0	82.6	1139.1
27	53.5	58.5	112.5	77.5	77.1	580.8
28	55.0	59.5	157.5	97.5	81.5	725.7
29	55.5	63.5	92.5	52.5	72.7	497.6
30	53.0	60.0	140.0	67.5	71.4	417.2
31	55.0	60.0	125.0	85.0	85.4	1244.5
32	56.0	64.5	120.0	57.5	80.4	683.8
33	54.5	61.0	125.0	70.0	76.5	854.0
34	54.0	60.5	127.5	85.0	81.4	999.8
35	54.5	60.5	132.5	70.0	65.6	314.1
36	56.5	65.0	122.5	70.0	76.4	270.8
37	53.0	65.0	165.0	100.0	81.0	353.3
38	56.0	61.0	140.0	100.0	80.0	83.3
39	54.5	65.0	132.5	85.0	81.1	393.9
40	55.5	61.0	127.5	82.5	70.3	1248.5
41	54.0	58.0	105.0	57.5	77.3	876.9
42	54.0	60.5	137.5	77.5	83.3	312.9
43	54.5	60.0	137.5	72.5	81.3	1391.1
44	55.0	63.0	130.0	80.0	71.4	104.2
45	54.5	61.0	172.5	75.0	70.1	539.6
46	56.0	62.0	140.0	82.5	85.6	747.2
47	56.0	65.0	120.0	65.0	73.5	934.2
48	56.0	62.0	160.0	100.0	77.8	582.8

IC56

Table 9. CAT1433 [AWWTC-25] - Advance stage early-medium maturity yellow hybrids-Set 6

Entry	50% Anthesis (days)	50% Silking (days)	Plant height (cms)	Ear height (cms)	Shelling %	Grain Yield (Kg/ha)
49	54.5	60.0	130.0	62.5	83.3	1040.4
50	55.0	59.5	87.5	50.0	74.5	373.3
51	54.0	60.0	140.0	72.5	73.4	1244.1
52	54.5	58.0	115.0	67.5	76.8	745.1
53	53.5	61.5	125.0	72.5	84.2	729.7
54	55.0	63.0	112.5	62.5	82.6	853.3
55	55.5	60.0	105.0	80.0	84.1	1612.5
56	55.5	61.5	135.0	80.0	76.7	352.7
57	54.5	65.0	105.0	70.0	70.8	872.4
58	56.0	60.5	120.0	82.5	76.7	1429.1
59	53.0	56.5	147.5	82.5	71.0	914.7
60	56.5	63.0	115.0	75.0	84.2	664.6
61	53.5	57.5	127.5	77.5	70.5	749.4
62	55.5	61.5	110.0	65.0	80.8	684.2
63	56.0	65.0	95.0	45.0	81.3	270.5
64	54.5	66.0	107.5	82.5	83.0	747.0
65	55.5	61.5	142.5	62.5	79.8	334.2
66	52.5	56.5	132.5	72.5	84.0	703.5
67	53.5	57.0	112.5	77.5	82.0	521.9
68	56.0	61.0	120.0	67.5	84.2	353.8
69	55.0	62.5	150.0	77.5	80.9	1036.8
70	54.0	61.0	145.0	87.5	73.1	1802.7
71	54.5	57.5	132.5	60.0	83.8	888.8
72	55.5	60.5	120.0	60.0		0.0
73	56.5	63.5	105.0	45.0	78.4	851.7
74	54.5	62.5	112.5	62.5	86.4	684.2
75	55.5	63.5	122.5	75.0	80.8	517.8
76	55.5	61.5	135.0	70.0	80.2	665.1
77	55.0	59.0	107.5	77.5	73.7	519.8
78	56.5	63.5	100.0	57.5	78.6	1060.1
79	55.0	60.5	137.5	70.0	82.2	683.0
80	55.5	62.5	135.0	85.0	81.7	394.0
81	56.0	64.0	107.5	72.5	79.8	414.8
82	54.5	58.0	140.0	80.0	81.2	1582.2
83	53.5	60.5	107.5	55.0	51.2	415.8
84	55.0	64.0	102.5	67.5	61.9	792.5
85	57.0	64.0	100.0	62.5	80.4	1040.2
86	56.5	65.0	92.5	60.0	84.7	770.3
87	52.0	60.0	132.5	77.5	72.2	643.8
88	56.0	60.5	92.5	55.0	72.2	518.8
89	54.0	64.0	77.5	47.5	69.0	187.5
90	55.0	65.0	125.0	77.5	80.1	415.4
Mean	54.9	61.2	121.0	71.1	77.0	694.8
					Location	Begusarai
					Plot size(sq.m)	2.4
					Sowing date	13.07.2014
					Harvest date	21.10.2014

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Table 10. CAT1434 [EDWBCTC-19] - Advance stage early-medium maturity yellow hybrids-Set 7

Entry	50% Anthesis (days)	50% Silking (days)	Plant height (cms)	Ear height (cms)	Shelling %	Grain Yield (Kg/ha)
1	53.0	60.5	92.5	82.5	67.0	421.8
2	56.0	64.0	92.5	55.0	69.0	294.9
3	54.5	62.0	107.5	62.5	75.3	419.5
4	52.0	61.5	120.0	75.0	82.9	794.1
5	54.5	63.0	110.0	65.0		0.0
6	57.0	65.5	87.5	37.5	77.8	147.0
7	55.0	64.0	105.5	60.0		0.0
8	56.5	63.5	82.5	37.5		0.0
9	52.5	66.5	77.5	35.0	85.7	125.0
10	50.0	64.0	100.0	75.0		0.0
11	53.0	59.5	125.0	67.5	61.8	208.5
12	56.5	67.0	95.0	55.0	62.5	104.2
13	53.5	59.5	105.0	65.0	62.4	292.7
14	53.5	64.5	122.5	77.5	62.5	104.2
15	56.5	63.5	107.5	67.5	75.0	125.0
16	52.5	56.0	127.5	90.0	85.7	379.0
17	49.0	55.0	110.0	60.0	71.4	210.3
18	57.5	63.5	87.5	35.0	63.3	272.3
19	56.0	67.0	97.5	57.5	70.0	146.5
20	54.5	64.5	115.0	67.5		0.0
21	53.0	63.0	112.5	55.0	81.0	355.4
22	56.0	63.5	77.5	42.5	66.7	83.3
23	52.5	60.0	115.0	67.5	69.0	187.5
24	54.0	60.5	110.0	65.0	70.9	250.4
25	59.0		105.0	60.0		0.0
26	52.5	60.0	110.0	66.5	75.7	398.7
27	55.5	64.0	100.0	70.0	71.4	208.3
28	53.5	61.5	92.5	62.5	80.0	166.9
29	52.5	60.0	115.0	67.5	80.6	521.4
30	55.0	61.5	115.0	70.0	71.4	209.3
31	52.5	58.5	117.5	67.5	85.7	250.0
32	55.5	62.5	90.0	55.0	71.4	104.2
33	53.0		85.0	50.0		0.0
34	55.0	66.5	105.0	60.0	74.6	250.3
35	54.0	61.5	112.5	62.5		0.0
36	57.0	64.0	90.0	60.0	62.5	104.2
37	55.5	65.5	105.0	72.5	74.3	378.7
38	55.5	62.5	107.5	57.5	71.4	208.6
39	54.0	61.0	90.0	62.5	79.2	1069.5
40	52.0	56.0	117.5	72.5	81.0	357.5
41	52.5	57.0	127.5	82.5	75.4	586.6
42	53.5	61.5	110.0	60.0	62.5	104.2
43	55.0	65.5	110.0	75.0	72.2	273.1
44	54.0	66.0	97.5	60.0	56.7	104.2
45	56.0	64.5	95.0	47.5	61.9	336.9
46	54.0	62.5	117.5	72.5	79.2	272.8
47	53.0	58.0	122.5	77.5	81.7	544.1
48	55.5	65.0	105.0	70.0	68.9	210.2
49	54.5	61.0	102.5	55.0	77.5	375.3
50	55.0	63.5	105.0	50.0	50.0	41.7
Mean	54.3	62.3	104.7	62.5	72.0	240.0
					Location	Begusarai
					Plot size(sq.m)	2.4
					Sowing date	13.07.2014
					Harvest date	21.10.2014

Table 11. CAT1434 [EDWBCTC-210] - Advance stage early-medium maturity yellow hybrids-Set 7

Entry	50% Anthesis (days)	50% Silking (days)	Plant height (cms)	Ear height (cms)	Shelling %	Grain Yield (Kg/ha)
1	53.5	59.5	117.5	60.0	87.2	706.7
2	51.0	57.5	110.0	62.5	76.7	809.3
3	57.0	64.0	100.0	47.5	70.1	250.0
4	50.5	59.0	104.0	60.0	80.2	414.9
5	52.5	59.0	112.5	57.5	86.3	1142.5
6	51.5	56.0	105.0	65.0	80.4	1370.9
7	52.0	58.5	77.5	37.5	81.7	291.2
8	52.0	59.0	102.5	62.5	80.0	665.1
9	55.5	63.0	90.0	50.0	63.5	457.8
10	49.5	56.0	147.5	92.5	80.4	1369.9
11	52.5	60.0	90.0	47.5	85.0	710.0
12	56.0	66.0	90.0	35.0	82.3	500.4
13	53.0	57.5	120.0	65.0	80.4	685.3
14	51.5	57.0	130.0	77.5	82.5	1077.0
15	49.5	50.0	97.5	52.5	82.5	956.1
16	54.0	63.5	92.5	62.5	77.8	415.1
17	52.5	59.5	100.0	55.0	84.3	1847.6
18	55.5	64.0	100.0	47.5	75.0	249.8
19	52.5	59.0	102.5	67.5	83.3	726.6
20	54.5	64.0	80.0	42.5	80.4	312.3
21	52.0	65.0	107.5	65.0	83.3	414.7
22	53.0	62.0	92.5	45.0	87.1	559.5
23	52.5	62.0	97.5	57.5	77.4	1704.3
24	54.0	60.0	117.5	57.5	76.2	831.1
25	56.0	62.0	122.5	67.5	73.1	540.7
26	54.0	60.0	75.0	45.0	77.8	874.0
27	56.0	61.0	85.0	52.5	59.1	540.2
28	53.0	65.0	100.0	60.0	72.7	665.1
29	53.5	63.0	80.0	40.0	88.6	1288.6
30	53.5	58.0	117.5	65.0	82.1	1036.8
31	52.0	57.5	97.5	60.0	81.1	1120.7
32	53.0	57.5	120.0	72.5	76.9	1702.9
33	55.5	64.0	90.0	42.5	75.0	500.0
34	53.5	59.0	112.5	57.5	83.2	1226.8
35	54.0	60.0	120.0	70.0	85.7	1826.1
36	52.0	61.0	90.0	52.5	70.0	705.7
37	52.0	57.5	105.0	67.5	58.2	832.4
38	52.5	60.5	95.0	52.5	114.1	456.9
39	50.0	56.5	102.5	55.0	81.7	601.6
40	51.5	60.0	112.5	65.0	70.9	624.3
41	56.5	67.0	95.0	37.5	80.1	415.9
42	54.5	61.0	107.5	60.0	85.9	2523.7
43	53.0	60.5	90.0	47.5	77.4	561.0
44	53.5	57.5	117.5	70.0	85.7	1204.1
45	51.5	57.5	117.5	60.0	81.0	1398.7
46	51.0	60.5	122.5	67.5	81.0	1597.1
47	54.0	61.0	90.0	57.5	85.2	1268.9
48	53.0	59.5	92.5	45.0	69.0	187.5
49	53.5	59.5	120.0	72.5	82.4	1203.0
50	54.0	64.0	95.0	55.0	80.4	312.7
Mean	53.1	60.2	103.1	57.4	79.6	873.7
					Location	Begusarai
					Plot size(sq.m)	2.4
					Sowing date	13.07.2014
					Harvest date	21.10.2014

Table 12. The mean disease score and percentage disease incidence (PDI) of trials BLSBAMP-22 (Udaipur), FSRAMP-23 (Arbhavi), MSRAMP-25 (Hyderabad)

Trial Name	BLSBAMP-22-Udai	FSRAMP-23-Arbh	MSRAMP-25-Hyde	MSRAMP-25-Hyde
Entry	BLSB	TLB	MSR	PDI
1	3.0	3.5	4.1	45.9
2	3.0	3.0	3.5	38.6
3	1.0	1.5	3.4	38.1
4	4.5	3.0	4.8	53.6
5	3.0	3.0	4.7	51.8
6	1.5	3.5	4.3	47.4
7	4.0	3.5	3.3	36.1
8	4.0	4.5	5.6	62.2
9	4.0	5.0	3.3	36.9
10	2.0	5.0	5.1	57.1
11	3.0	3.5	5.3	58.4
12	4.5	4.0	2.0	22.5
13	3.5	2.5	3.4	37.2
14	3.5	4.5	3.1	34.9
15	4.5	2.5	3.7	40.6
16	2.8	3.0	2.2	24.1
17	1.8	3.5	3.8	42.1
18	3.3	4.5	4.1	45.3
19	2.5	5.0	3.3	36.7
20	3.3	5.0	5.2	57.9
21	3.3	4.0	2.7	29.6
22	3.8	3.0	1.8	19.8
23	3.8	4.0	4.8	53.6
24	2.0	4.5	3.0	33.5
25	4.0	4.5	4.5	50.0
26	3.5	4.5	3.4	37.9
27	4.8	4.0	5.0	55.6
28	3.0	4.0	2.2	24.9
29	2.3	4.0	3.5	38.7
30	3.5	4.5	2.3	25.7
31	4.5	3.0	2.1	23.0
32	3.0	2.0	4.3	47.2
33	1.8	3.5	1.5	16.5
34	4.5	5.0	5.3	58.4
35	3.0	4.5	3.2	35.6
36	4.5	4.0	3.5	38.9
37	2.0	3.0	3.7	41.4
38	3.8	5.0	3.6	39.7
39	2.8	2.0	2.9	32.4
40	3.5	3.5	2.6	29.3
41	3.3	3.5	1.8	19.6
42	3.3	4.0	5.2	58.3
43	3.0	5.0	2.7	29.5
44	1.8	3.5	4.3	47.7
45	4.5	4.0	3.7	41.1
46	3.0	3.5	4.2	46.8
47	3.8	5.0	5.1	56.4
48	3.0	5.0	5.1	56.3
49	2.0	4.0	1.9	21.3
50	1.5	3.5	1.3	14.7
51	1.5	3.5	1.4	15.2

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Table 12. The mean disease score and percentage disease incidence (PDI) of trials BLSBAMP-22 (Udaipur), FSRAMP-23 (Arbhavi), MSRAMP-25 (Hyderabad)

Trial Name	BLSBAMP-22-Udai	FSRAMP-23-Arbh	MSRAMP-25-Hyde	MSRAMP-25-Hyde
Entry	BLSB	TLB	MSR	PDI
52	1.8	2.5	5.3	58.6
53	3.5	3.0	4.5	49.8
54	4.3	3.0	4.5	50.0
55	2.8	3.5	5.4	60.3
56	2.0	2.5	3.3	36.1
57	3.3	4.0	2.7	30.3
58	3.5	4.5	5.2	57.4
59	3.3	4.0	3.2	35.2
60	2.0	2.5	2.5	27.3
61	3.0	NA	NA	NA
62	3.3	4.0	5.3	59.0
63	4.0	4.0	4.3	48.1
64	3.3	4.0	2.4	26.3
65	3.8	2.5	2.5	28.0
66	3.3	4.0	4.5	49.6
67	3.5	3.5	3.5	38.9
68	3.0	3.0	3.6	39.7
69	3.3	5.0	4.1	45.4
70	4.3	3.0	2.1	23.4
71	3.0	4.0	3.7	40.6
72	3.0	2.0	5.8	64.5
73	3.5	3.0	3.6	39.6
74	3.5	5.0	2.9	32.6
75	3.3	3.5	4.3	48.0
76	2.8	4.5	3.7	40.8
77	4.0	4.5	5.1	56.4
78	2.0	4.0	2.3	25.9
79	4.0	3.5	2.7	29.9
80	1.8	3.5	1.7	18.7
81	3.3	2.5	5.0	55.6
82	2.8	3.5	1.7	18.5
83	4.0	4.5	3.3	36.7
84	1.5	3.5	4.3	47.4
85	3.0	4.0	4.1	45.6
86	3.0	4.5	4.0	44.6
87	3.3	2.5	3.1	34.0
88	2.3	4.5	5.1	57.1
89	4.8	5.0	3.2	35.8
90	3.3	4.0	4.1	45.6
91	3.3	3.5	3.2	35.5
92	4.0	4.0	2.0	22.1
93	2.8	4.5	1.6	18.0
94	2.0	3.0	3.5	39.0
95	2.8	4.0	1.3	14.2
96	3.8	5.0	4.8	53.6
97	3.3	4.5	2.4	26.7
98	2.5	3.0	2.1	23.4
99	4.8	5.0	3.1	34.6
100	3.8	2.0	1.8	19.7
101	2.5	3.5	3.4	37.9
102	4.5	4.5	2.8	31.3

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Table 12. The mean disease score and percentage disease incidence (PDI) of trials BLSBAMP-22 (Udaipur), FSRAMP-23 (Arbhavi), MSRAMP-25 (Hyderabad)

Trial Name	BLSBAMP-22-Udai	FSRAMP-23-Arbh	MSRAMP-25-Hyde	MSRAMP-25-Hyde
Entry	BLSB	TLB	MSR	PDI
103	4.0	4.0	3.4	38.1
104	3.3	3.0	3.3	36.6
105	3.8	3.5	3.9	43.1
106	1.8	5.0	3.5	39.3
107	1.5	4.0	3.6	39.8
108	1.8	4.0	1.2	13.8
109	1.5	4.5	3.6	40.4
110	4.8	5.0	4.1	45.6
111	2.3	3.5	3.2	36.1
112	4.5	4.5	4.1	45.9
113	2.5	2.5	2.7	29.6
114	3.0	3.0	2.0	22.2
115	3.8	3.0	4.7	52.2
116	3.3	3.5	5.5	61.2
117	1.8	2.0	5.1	56.3
118	3.0	3.5	3.0	33.6
119	4.5	3.5	5.1	56.6
120	2.3	4.0	3.1	34.7
121	2.3	4.0	1.5	16.2
122	3.5	3.5	3.5	39.1
123	2.3	4.5	3.8	42.7
124	4.3	3.5	4.4	48.4
125	4.5	4.0	2.6	28.7
126	3.0	4.0	1.1	12.6
127	4.5	4.0	3.1	34.8
128	2.8	3.5	2.6	28.4
129	1.5	4.0	1.6	18.2
130	1.8	3.5	1.4	15.3
131	1.8	2.5	1.5	16.1
132	2.8	2.0	3.1	34.1
133	3.3	3.5	3.7	41.2
134	2.0	3.5	3.1	34.7
135	1.8	3.5	3.2	35.3
136	3.8	4.5	3.2	35.7
137	3.0	4.5	1.9	21.0
138	3.5	2.5	4.3	47.9
139	2.8	3.0	1.7	18.4
140	2.0	3.0	5.3	59.1
141	3.0	3.5	5.6	62.2
142	3.5	4.0	2.3	25.9
143	4.8	3.0	1.5	16.9
144	1.5	3.5	1.3	14.6
145	4.3	3.5	3.4	38.1
146	4.3	5.0	4.4	49.2
147	2.5	3.0	4.0	43.9
148	1.3	4.0	2.0	21.8
149	2.0	3.5	3.4	37.9
150	1.0	2.0	2.1	23.6
151	4.5	3.0	1.7	18.4
152	3.0	4.5	2.7	29.8
153	2.0	4.5	1.4	16.0

Table 12. The mean disease score and percentage disease incidence (PDI) of trials BLSBAMP-22 (Udaipur), FSRAMP-23 (Arbhavi), MSRAMP-25 (Hyderabad)

Trial Name	BLSBAMP-22-Udai	FSRAMP-23-Arbh	MSRAMP-25-Hyde	MSRAMP-25-Hyde
Entry	BLSB	TLB	MSR	PDI
154	4.5	4.0	2.4	26.3
155	4.5	4.0	2.5	27.6
156	3.8	3.5	1.2	13.7
157	4.5	3.0	4.0	44.4
158	4.3	3.5	5.6	61.8
159	0.8	3.0	1.6	17.5
160	2.5	4.0	2.9	32.4
161	3.8	5.0	1.8	19.8
162	2.3	4.0	1.7	19.2
163	2.0	3.5	5.2	57.4
164	4.0	3.0	2.8	31.1
165	2.0	4.0	3.3	37.1
166	4.5	3.5	2.6	29.3
167	2.5	2.5	1.9	20.9
168	2.8	3.0	2.8	30.6
169	1.8	2.0	3.6	39.8
170	1.8	4.0	2.1	23.6
171	1.5	4.0	2.2	24.1
172	1.8	3.5	4.3	47.3
173	4.3	3.0	3.2	35.4
174	2.3	3.0	3.9	43.8
175	1.8	4.0	1.3	14.1
176	2.0	4.0	3.5	38.6
177	4.8	4.5	3.3	36.4
178	4.5	3.5	3.1	34.9
179	4.0	4.5	2.3	25.0
180	3.0	3.5	2.1	23.1
181	3.8	3.0	2.7	30.5
182	2.5	3.5	4.2	46.8
183	2.0	4.5	3.8	41.7
184	3.0	3.0	2.8	30.6
185	1.8	3.0	3.3	36.6
186	2.0	3.0	3.0	33.7
187	3.3	2.5	1.6	17.9
188	2.5	3.5	2.1	22.9
189	2.8	2.5	1.6	17.8
190	2.8	3.0	1.7	18.8
191	1.5	2.0	4.0	44.7
192	2.5	5.0	3.6	39.6
193	2.3	3.0	3.3	36.6
194	1.5	3.5	3.1	34.7
195	4.0	4.0	1.5	16.3
196	1.8	4.5	4.3	48.1
197	4.3	4.0	2.7	30.3
198	1.3	4.5	4.6	51.2
199	3.5	5.0	2.2	24.7
200	5.0	3.5	3.4	37.2
201	3.0	4.0	4.1	45.8
202	3.5	3.5	5.1	56.3
203	3.3	2.0	2.8	30.9
204	1.8	4.5	3.2	35.7

Table 12. The mean disease score and percentage disease incidence (PDI) of trials BLSBAMP-22 (Udaipur), FSRAMP-23 (Arbhavi), MSRAMP-25 (Hyderabad)

Trial Name	BLSBAMP-22-Udai	FSRAMP-23-Arbh	MSRAMP-25-Hyde	MSRAMP-25-Hyde
Entry	BLSB	TLB	MSR	PDI
205	4.0	2.5	2.6	29.3
206	2.5	4.0	3.3	37.0
207	4.3	4.0	2.6	28.3
208	2.8	2.5	4.0	44.5
209	3.0	3.0	2.7	30.3
210	3.0	3.0	3.1	34.6
211	3.0	3.5	1.5	17.1
212	3.5	3.0	2.3	25.3
213	1.8	2.5	1.6	18.1
214	4.8	3.5	5.1	57.1
215	4.0	3.5	3.4	37.5
General Mean	3.0	3.7	3.3	36.5
Plot size(sq.m)	2.3	2.4	1.9	1.9
Sowing date	18.07.2014	31.07.2014	10.07.2014	10.07.2014
Harvest date	07.11.2014	08.12.2014	13-15.11.2014	13-15.11.2014
Date of inoc.				

Table 13. The mean disease score and percentage disease incidence (PDI) of trials FSRAMP-32 (Udaipur), FSRAMP-33 (Arbhavi), MSRAMP-35 (Hyderabad)

Trial Name	FSRAMP-32-Udai	FSRAMP-33-Arbh	MSRAMP-35-Hyde	MSRAMP-35-Hyde
Entry	FSR	TLB	MSR	PDI
1	3.3	3.0	3.8	41.7
2	3.0	3.5	3.5	39.3
3	2.4	5.0	3.4	38.1
4	3.4	3.5	3.1	34.9
5	3.3	3.0	2.3	25.6
6	3.4	4.0	3.1	34.1
7	3.5	4.0	2.0	22.3
8	3.2	4.5	2.7	29.6
9	4.2	3.5	3.3	37.1
10	2.4	3.0	3.4	37.6
11	3.0	2.5	2.1	23.8
12	3.0	3.5	1.9	21.1
13	3.6	3.5	3.6	40.4
14	4.5	4.0	1.9	21.2
15	2.3	3.0	3.7	41.6
16	2.5	2.5	2.0	22.2
17	2.8	5.0	4.2	46.9
18	2.1	5.0	4.2	46.8
19	3.1	3.0	2.2	24.9
20	3.8	4.0	4.4	49.3
21	3.4	4.5	4.5	49.7
22	3.1	3.0	1.8	19.6
23	2.7	2.0	3.0	33.7
24	3.4	4.5	2.1	23.0
25	3.3	3.0	1.7	19.0
26	4.5	4.0	3.8	42.3
27	2.4	3.5	1.4	15.9
28	3.8	4.0	9.0	100.0
29	3.5	3.5	1.5	16.7
30	3.4	2.5	1.4	15.8
31	2.6	4.0	1.0	11.1
32	3.7	2.5	1.6	17.2
33	3.2	3.0	3.4	37.9
34	3.3	3.0	2.3	25.1
35	2.7	3.0	1.4	15.7
36	2.6	3.0	1.8	19.4
37	3.3	2.0	2.7	30.1
38	2.0	2.5	3.2	35.5
39	3.0	2.5	1.1	12.7
40	4.8	3.5	1.4	15.7
41	4.1	3.5	3.2	36.1
42	3.5	4.5	2.5	28.2
43	3.0	3.0	2.4	27.0
44	3.2	4.0	1.2	13.3
45	2.9	3.0	1.6	18.1
46	5.5	4.5	3.5	38.6
47	3.0	3.5	3.2	35.2
48	2.8	4.5	1.8	19.8
49	3.2	4.0	1.2	12.8
50	4.4	3.5	1.1	12.7
51	2.4	4.0	1.1	12.0

Table 13. The mean disease score and percentage disease incidence (PDI) of trials FSRAMP-32 (Udaipur), FSRAMP-33 (Arbhavi), MSRAMP-35 (Hyderabad)

Trial Name	FSRAMP-32-Udai	FSRAMP-33-Arbh	MSRAMP-35-Hyde	MSRAMP-35-Hyde
Entry	FSR	TLB	MSR	PDI
52	3.3	3.5	1.3	14.7
53	3.3	3.5	2.1	23.3
54	3.0	3.5	1.3	13.9
55	2.9	3.5	1.4	15.7
56	4.2	5.0	4.6	50.8
57	3.4	3.5	1.4	15.8
58	3.1	3.0	5.5	61.1
59	2.8	2.0	1.3	14.7
60	2.9	2.0	1.1	11.9
61	2.6	3.5	1.2	13.6
62	3.0	3.5	4.3	47.8
63	3.9	4.0	1.7	18.7
64	5.5	5.0	1.1	12.5
65	5.2	3.5	1.3	14.5
66	4.1	3.0	4.8	53.8
67	2.4	3.0	3.3	36.1
68	3.1	4.0	1.7	19.0
69	2.4	4.0	1.1	12.5
70	3.8	2.5	1.2	12.9
71	3.7	2.5	1.1	12.0
72	4.0	2.0	1.1	11.9
73	3.0	3.0	4.2	46.2
74	3.1	3.5	4.9	53.9
75	4.1	3.5	1.1	11.9
76	3.0	3.5	1.4	15.9
77	2.3	4.5	1.2	13.8
78	2.9	4.0	3.2	35.2
79	3.6	2.5	2.4	26.1
80	2.2	3.0	1.7	18.9
81	3.2	4.0	2.6	28.5
82	3.4	3.0	1.1	12.6
83	2.9	3.0	1.2	13.8
84	3.4	3.5	2.3	25.9
85	3.1	4.0	9.0	100.0
86	3.0	2.5	1.2	13.8
87	3.3	3.0	3.4	38.2
88	3.4	3.0	1.1	12.6
89	3.1	2.0	1.7	18.7
90	3.4	4.5	3.1	33.9
91	4.1	2.0	1.1	12.5
92	4.8	3.5	4.5	49.6
93	3.0	5.0	1.3	14.7
94	4.1	3.0	2.3	25.3
95	3.9	3.0	1.3	14.1
96	2.8	3.5	2.4	26.4
97	3.0	4.5	2.2	24.4
98	3.2	4.5	1.8	20.1
99	3.5	3.5	3.5	39.1
100	3.1	3.5	1.9	20.8
101	5.1	3.0	3.6	39.9
102	3.2	4.0	1.8	20.3

Table 13. The mean disease score and percentage disease incidence (PDI) of trials FSRAMP-32 (Udaipur), FSRAMP-33 (Arbhavi), MSRAMP-35 (Hyderabad)

Trial Name	FSRAMP-32-Udai	FSRAMP-33-Arbh	MSRAMP-35-Hyde	MSRAMP-35-Hyde
Entry	FSR	TLB	MSR	PDI
103	3.9	4.0	1.7	19.0
104	3.1	3.5	1.7	19.3
105	3.0	2.5	9.0	100.0
106	2.5	4.5	9.0	100.0
107	3.7	5.0	4.0	44.7
108	3.1	4.0	3.1	33.9
General Mean	3.3	3.5	2.6	28.9
Plot size(sq.m)	2.3	2.4	1.9	1.9
Sowing date	18.07.2014	31.07.2014	25.07.2014	25.07.2014
Harvest date	07.11.2014	08.12.2014	17-18.11.2014	17-18.11.2014
Date of inoc.				

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Table 14. The mean disease score of trials BLSBIT-52 (Udaipur), DMIT-32 (Udaipur)

BLSBIT-52-Udai						DMIT-32-Udai		
Entry	Name	BLSB	Entry	Name	BLSB	Entry	Name	DM
1	SNL148611	2.5	57	SNL1410774	1.8	1	VL073318	100.0
2	SNL148612	2.5	58	SNL1410775	2.0	2	VL108849	91.5
3	SNL148613	2.8	59	SNL1410776	2.0	3	VL1018140	35.0
4	SNL148614	4.3	60	SNL1410777	2.3	4	VL108880	45.5
5	SNL148615	2.0	61	SNL1410778	2.0	5	VL1012847	48.0
6	SNL148616	2.8	62	SNL1410779	2.8	6	VL1018419	51.5
7	SNL148617	1.5	63	SNL1410780	2.8	7	VL0512418	81.0
8	SNL148618	2.3	64	SNL1410781	2.5	8	VL0512423	100.0
9	SNL148619	2.5	65	SNL1410782	4.5	9	VL109138	13.5
10	SNL148620	3.0	66	SNL1410783	2.8	10	VL108723	17.5
11	SNL148621	2.5	67	SNL1410784	2.3	11	VL1016197	9.5
12	SNL148622	3.0	68	SNL1410785	3.0	12	VL108732	28.0
13	SNL148623	2.5	69	SNL1410786	2.5	13	VL108870	72.5
14	SNL148624	1.0	70	SNL1410787	4.0	14	VL109079	100.0
15	SNL148625	3.5	71	SNL1410788	3.3	15	VL109179	91.5
16	SNL148626	2.0	72	SNL1410789	2.3	16	VL1018162	32.5
17	SNL148627	1.0	73	SNL1410790	3.8	17	VL1238	14.5
18	SNL148628	2.0	74	SNL1410791	1.3	18	VL1248	52.0
19	SNL148629	2.3	75	SNL1410792	1.3	19	VL1012756	76.0
20	SNL148630	1.8	76	SNL1410793	1.3	20	VL107539	60.0
21	SNL148631	1.5	77	SNL1410794	3.5	21	VL107649	69.0
22	SNL148632	2.8	78	SNL1410795	2.8	22	VL1077	10.0
23	SNL148633	2.0	79	SNL1410796	2.3	23	VL1219	93.5
24	SNL148634	3.3	80	SNL1410797	1.8	24	VL108504	53.5
25	SNL148635	1.8	81	SNL1410798	3.0	25	VL108665	54.5
26	SNL148636	2.8	82	SNL1410799	3.5	26	VL108729	62.5
27	SNL148637	2.8	83	SNL1410800	3.5	27	VL1030	96.0
28	SNL148638	4.0	84	SNL1410801	2.8	28	VL1030	35.5
29	SNL148639	2.3	85	SNL1410802	2.3	29	VL1033	64.5
30	SNL148640	3.0	86	SNL1410803	2.8	30	VL1033	81.0
31	SNL148641	2.5	87	SNL1410804	1.8	31	VL1033	42.0
32	SNL148642	1.5	88	SNL1410805	3.0	32	VL1033	40.5
33	SNL148643	2.5	89	SNL1410806	3.5	33	VL1033	49.0
34	SNL148644	2.8	90	SNL1410807	1.8	34	VL1016073	39.0
35	SNL148645	1.8	91	SNL1410808	3.0	35	VL108868	54.0
36	SNL148646	2.8	92	SNL1410809	3.3	36	VL108882	20.0
37	SNL148647	2.3	93	SNL1410810	2.8	37	VL1016212	17.0
38	SNL148648	2.0	94	SNL1410811	2.5	38	VL105549	65.5
39	SNL148649	4.8	95	SNL1410812	1.8	39	VL1249	9.5
40	SNL148650	2.5	96	SNL1410813	2.3	40	VL105606	0.0
41	SNL148651	2.5	97	SNL1410814	2.0	41	VL1031	36.5
42	SNL148652	4.3	98	SNL1410815	2.8	42	VL1012768	100.0
43	SNL148653	4.8	99	SNL1410816	2.0		General Mean	52.7
44	SNL148654	2.3	100	SNL1410817	1.8		Plot size(sq.m)	2.3
45	SNL148655	1.5	101	SNL1410818	2.0		Sowing date	05.09.2014
46	SNL148656	4.0	102	SNL1410819	3.8		Harvest date	12.12.2014
47	SNL148657	3.3	103	SNL1410820	3.3		Date of inoc.	
48	SNL148658	1.8	104	CML193	1.8			
49	SNL148659	1.5		General Mean	2.6			
50	SNL148660	3.3		Plot size(sq.m)	1.9			
51	SNL148661	3.3		Sowing date	17-18.07.2014			
52	SNL1410769	2.0		Harvest date	25.10.2014			
53	SNL1410770	2.0		Date of inoc.				
54	SNL1410771	4.0						
55	SNL1410772	2.3						
56	SNL1410773	2.8						

Table 15. The mean disease score of trials BLSBIT-12 (Ludhiana)

BLSBIT-12-Ludh											
Entry	Name	BLSB	Entry	Name	BLSB	Entry	Name	BLSB	Entry	Name	BLSB
1	SNL143940	2.3	53	SNL143992	3.3	105	SNL144044	3.3	157	SNL144096	3.0
2	SNL143941	3.3	54	SNL143993	3.3	106	SNL144045	3.3	158	SNL144097	3.5
3	SNL143942	3.5	55	SNL143994	3.5	107	SNL144046	3.5	159	SNL144098	3.3
4	SNL143943	2.5	56	SNL143995	2.8	108	SNL144047	4.8	160	SNL144099	3.3
5	SNL143944	3.3	57	SNL143996	3.0	109	SNL144048	2.3	161	SNL144100	3.8
6	SNL143945	4.0	58	SNL143997	3.8	110	SNL144049	3.3	162	SNL144101	3.8
7	SNL143946	2.8	59	SNL143998	3.3	111	SNL144050	2.8	163	SNL144102	3.0
8	SNL143947	3.3	60	SNL143999	3.5	112	SNL144051	2.8	164	SNL144103	3.3
9	SNL143948	4.8	61	SNL144000	2.3	113	SNL144052	3.8	165	SNL144104	3.8
10	SNL143949	2.5	62	SNL144001	3.8	114	SNL144053	3.8	166	SNL144105	3.8
11	SNL143950	3.8	63	SNL144002	2.8	115	SNL144054	3.3	167	SNL144106	3.3
12	SNL143951	2.8	64	SNL144003	3.8	116	SNL144055	4.3	168	SNL144107	3.0
13	SNL143952	3.8	65	SNL144004	3.5	117	SNL144056	2.3	169	SNL144108	2.8
14	SNL143953	3.8	66	SNL144005	4.3	118	SNL144057	3.3	170	SNL144109	2.8
15	SNL143954	3.3	67	SNL144006	2.8	119	SNL144058	3.8	171	SNL144110	3.3
16	SNL143955	3.0	68	SNL144007	2.8	120	SNL144059	3.8	172	SNL144111	2.3
17	SNL143956	2.8	69	SNL144008	3.3	121	SNL144060	3.8	173	SNL144112	3.3
18	SNL143957	3.0	70	SNL144009	2.8	122	SNL144061	3.8	174	SNL144113	4.3
19	SNL143958	3.8	71	SNL144010	3.3	123	SNL144062	3.3	175	SNL144114	3.3
20	SNL143959	3.3	72	SNL144011	2.8	124	SNL144063	3.3	176	SNL144115	3.8
21	SNL143960	3.8	73	SNL144012	3.0	125	SNL144064	2.8	177	SNL144116	2.8
22	SNL143961	3.8	74	SNL144013	3.8	126	SNL144065	3.0	178	SNL144117	3.3
23	SNL143962	2.8	75	SNL144014	2.8	127	SNL144066	4.3	179	SNL144118	3.5
24	SNL143963	4.3	76	SNL144015	4.0	128	SNL144067	3.3	180	SNL144119	2.3
25	SNL143964	2.8	77	SNL144016	3.3	129	SNL144068	3.0	181	SNL144120	3.3
26	SNL143965	3.8	78	SNL144017	2.3	130	SNL144069	3.8	182	SNL144121	2.0
27	SNL143966	3.5	79	SNL144018	3.3	131	SNL144070	3.3	183	SNL144122	2.3
28	SNL143967	4.3	80	SNL144019	4.0	132	SNL144071	2.5	184	SNL144123	2.8
29	SNL143968	2.8	81	SNL144020	4.0	133	SNL144072	4.0	185	SNL144124	3.8
30	SNL143969	3.3	82	SNL144021	2.0	134	SNL144073	2.8	186	SNL144125	3.0
31	SNL143970	2.5	83	SNL144022	3.0	135	SNL144074	3.3	187	SNL144126	2.3
32	SNL143971	2.8	84	SNL144023	3.5	136	SNL144075	3.0	188	SNL144127	3.3
33	SNL143972	3.8	85	SNL144024	3.3	137	SNL144076	2.8	189	SNL144128	2.8
34	SNL143973	4.3	86	SNL144025	2.8	138	SNL144077	2.8	190	SNL144129	3.3
35	SNL143974	2.8	87	SNL144026	2.0	139	SNL144078	3.8	191	SNL144130	3.3
36	SNL143975	2.8	88	SNL144027	2.3	140	SNL144079	2.0	192	SNL144131	3.3
37	SNL143976	3.5	89	SNL144028	2.5	141	SNL144080	3.8	193	SNL144132	2.8
38	SNL143977	3.0	90	SNL144029	3.8	142	SNL144081	3.3	194	SNL144133	3.8
39	SNL143978	3.8	91	SNL144030	3.3	143	SNL144082	3.3	195	SNL144134	2.5
40	SNL143979	3.0	92	SNL144031	3.5	144	SNL144083	3.3	196	SNL144135	2.5
41	SNL143980	3.8	93	SNL144032	3.0	145	SNL144084	3.0	197	SNL144136	2.5
42	SNL143981	3.3	94	SNL144033	2.5	146	SNL144085	3.3	198	VL1018673	2.8
43	SNL143982	3.3	95	SNL144034	3.8	147	SNL144086	4.5	199	CL02450	2.8
44	SNL143983	3.8	96	SNL144035	3.3	148	SNL144087	3.0	200	CML474	3.5
45	SNL143984	3.8	97	SNL144036	3.8	149	SNL144088	3.8		General Mean	3.2
46	SNL143985	3.8	98	SNL144037	3.8	150	SNL144089	3.5		Plot size(sq.m)	1.9
47	SNL143986	3.3	99	SNL144038	3.3	151	SNL144090	2.3		Sowing date	03.07.2014
48	SNL143987	3.0	100	SNL144039	4.5	152	SNL144091	2.8		Harvest date	14.10.2014
49	SNL143988	3.3	101	SNL144040	2.8	153	SNL144092	3.3		Date of inoc.	12.08.2014
50	SNL143989	3.8	102	SNL144041	3.3	154	SNL144093	2.5			
51	SNL143990	4.0	103	SNL144042	2.8	155	SNL144094	2.8			
52	SNL143991	4.3	104	SNL144043	3.8	156	SNL144095	3.8			

Table 16. The mean disease score of trials BLSBIT-33 (Dhaulakuan) and TLBIT-11 or SCAT-1453 (Arbhavi)

BLSBIT-33-Dhau						TLBIT11-Arbh-SCAT-1453					
Entry	Name	BLSB	Entry	Name	BLSB	Entry	Name	TLB	Entry	Name	TLB
1	SNL142319	2.5	53	SNL142363	3.0	1	SNL144989	3.0	53	SNL145041	3.5
2	SNL142320	3.3	54	SNL142364	2.1	2	SNL144990	4.0	54	SNL145042	2.5
3	SNL142321	3.0	55	SNL142365	2.5	3	SNL144991	3.5	55	SNL145043	3.5
4	SNL1411604	3.3	56	SNL142366	3.8	4	SNL144992	2.5	56	SNL145044	3.5
5	SNL142322	2.8	57	SNL142367	2.0	5	SNL144993	3.0	57	SNL145045	3.0
6	SNL142323	2.5	58	SNL142368	2.8	6	SNL144994	3.5	58	SNL145046	2.5
7	SNL1411605	3.5	59	SNL142369	3.0	7	SNL144995	3.5	59	SNL145047	3.0
8	SNL142324	2.6	60	SNL142370	2.3	8	SNL144996	2.5	60	SNL145048	3.5
9	SNL142325	3.5	61	SNL142371	2.8	9	SNL144997	3.0	61	SNL145049	3.5
10	SNL1411606	2.3	62	SNL142372	3.0	10	SNL144998	3.5	62	SNL145050	3.5
11	SNL142326	3.8	63	SNL142373	3.5	11	SNL144999	3.5	63	SNL145051	3.5
12	SNL142327	2.5	64	SNL142374	3.3	12	SNL145000	3.5	64	SNL145052	3.0
13	SNL1411607	3.5	65	SNL142375	3.0	13	SNL145001	4.0	65	SNL145053	4.0
14	SNL142328	2.5	66	SNL142376	4.5	14	SNL145002	3.0	66	SNL145054	2.5
15	SNL142329	2.1	67	SNL142377	3.0	15	SNL145003	3.0	67	SNL145055	3.0
16	SNL1411608	2.8	68	SNL142378	3.3	16	SNL145004	3.5	68	SNL145056	3.0
17	SNL142330	2.8	69	SNL142379	3.3	17	SNL145005	4.0	69	SNL145057	3.0
18	SNL142331	2.5	70	SNL142380	3.5	18	SNL145006	3.5	70	SNL145058	3.5
19	SNL142332	4.0	71	SNL142381	2.8	19	SNL145007	3.5	71	SNL145059	2.0
20	SNL142333	3.5	72	SNL142382	2.8	20	SNL145008	3.5	72	SNL145060	4.0
21	SNL142334	2.8	73	SNL142383	3.3	21	SNL145009	3.0	73	SNL145061	3.0
22	SNL142335	3.0	74	SNL142384	1.5	22	SNL145010	3.5	74	SNL145062	3.5
23	SNL142336	3.0	75	SNL142385	3.3	23	SNL145011	3.5	75	SNL145063	3.5
24	SNL142337	2.3	76	SNL142386	3.5	24	SNL145012	3.0	76	SNL145064	3.0
25	SNL142338	3.3		General Mean	2.9	25	SNL145013	3.5	77	SNL145065	3.5
26	SNL142339	2.5		Plot size(sq.m)		26	SNL145014	3.0	78	SNL145066	3.5
27	SNL142340	2.6		Sowing date		27	SNL145015	3.5	79	SNL145067	3.0
28	SNL142341	3.0		Harvest date		28	SNL145016	3.0	80	SNL145068	3.5
29	SNL142342	3.3		Date of inoc.		29	SNL145017	3.5	81	SNL145069	3.5
30	SNL1411609	2.5				30	SNL145018	3.0	82	SNL145070	3.0
31	SNL1411610	3.3				31	SNL145019	3.0	83	SNL145071	3.5
32	SNL142343	2.8				32	SNL145020	3.5	84	SNL145072	3.0
33	SNL142344	2.6				33	SNL145021	3.5	85	SNL145073	4.0
34	SNL142345	2.0				34	SNL145022	3.0	86	SNL145074	3.5
35	SNL142346	3.0				35	SNL145023	3.0	87	SNL145075	3.0
36	SNL142347	2.8				36	SNL145024	3.5	88	SNL145076	3.0
37	SNL142347	4.0				37	SNL145025	3.0	89	SNL145077	2.5
38	SNL142348	3.5				38	SNL145026	2.5	90	SNL145078	4.0
39	SNL142349	3.5				39	SNL145027	3.5	91	WLS-F299-2-1-	4.5
40	SNL142350	3.3				40	SNL145028	2.0	92	CML193	2.5
41	SNL142351	1.6				41	SNL145029	3.0		General Mean	3.3
42	SNL142352	1.8				42	SNL145030	3.0		Plot size(sq.m)	2.4
43	SNL142353	2.5				43	SNL145031	3.5		Sowing date	31.07.2014
44	SNL142354	4.0				44	SNL145032	3.0		Harvest date	08.12.2014
45	SNL142355	3.5				45	SNL145033	3.0		Date of inoc.	
46	SNL142356	3.8				46	SNL145034	3.0			
47	SNL142357	3.0				47	SNL145035	3.5			
48	SNL142358	3.5				48	SNL145036	3.5			
49	SNL142359	2.3				49	SNL145037	4.0			
50	SNL142360	2.0				50	SNL145038	4.0			
51	SNL142361	2.6				51	SNL145039	3.5			
52	SNL142362	2.6				52	SNL145040	3.5			

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Table 17. The mean disease score and percentage disease incidence (PDI) of trials FSRAMP-13 (Arbhavi) and MSRAMP-15 (Hyderabad)

Trial Name		FSRAMP-13-Arbh			MSRAMP-15-Hyde			Trial Name		FSRAMP-13-Arbh			MSRAMP-15-Hyde		
Entry	Name	TLB	MSR	PDI	Entry	Name	TLB	MSR	PDI	Entry	Name	TLB	MSR	PDI	
1	VL109474	4.0	1.3	14.6	54	VL1018160	3.0	1.9	20.8						
2	VL1018165	2.5	3.1	34.0	55	VL1018162	4.5	1.6	17.6						
3	VL109078	4.5	2.5	28.2	56	VL1018172	4.5	2.9	31.7						
4	VL109081	2.0	3.3	36.7	57	VL109186	3.5	3.9	43.6						
5	VL1010856	5.0	2.5	28.2	58	VL1246	3.5	2.8	30.7						
6	VL1010885	4.0	2.2	24.3	59	VL1018625	2.0	3.5	38.8						
7	VL1074	4.5	1.9	20.8	60	VL105611	4.0	2.9	31.8						
8	VL105542	3.0	2.7	30.1	61	VL1062	3.0	2.6	29.1						
9	VL1052	3.0	3.3	36.8	62	VL1076	2.5	3.0	33.0						
10	VL1028	5.0	4.3	47.3	63	VL109181	5.0	4.0	44.5						
11	VL1028	4.0	3.1	35.0	64	VL1012764	4.5	3.2	35.7						
12	VL109079	5.0	3.0	32.9	65	VL105605	3.0	2.5	27.3						
13	VL1018157	3.0	2.6	28.3	66	VL1068	3.0	NA	NA						
14	VL1252	5.0	3.2	35.4	67	VL1072	4.5	3.4	37.8						
15	VL102	2.0	3.5	38.9	68	VL108725	3.0	4.1	46.0						
16	VL1032	3.0	1.9	21.5	69	VL109576	2.5	2.2	24.9						
17	VL1066	4.0	3.5	38.7	70	VL1213	3.0	1.8	20.1						
18	VL1226	4.5	4.3	47.8	71	VL1256	3.0	2.5	27.6						
19	VL1227	4.5	4.1	46.1	72	VL126	3.0	3.1	34.4						
20	VL062611	3.0	2.3	25.9	73	VL1236	4.0	3.6	40.1						
21	VL1029	4.0	3.3	36.3	74	VL1241	3.5	4.7	52.3						
22	VL1033	2.5	1.8	19.7	75	VL1244	2.0	1.7	18.9						
23	VL108855	2.5	2.4	27.1	76	VL1018803	4.5	3.8	42.1						
24	VL109080	2.5	4.3	48.1	77	VL108850	1.5	2.4	26.8						
25	VL121103	3.0	5.0	55.6	78	VL1218	5.0	2.1	23.1						
26	VL1018155	4.0	2.6	28.8	79	VL108734	2.5	3.5	38.3						
27	VL1063	3.5	3.8	42.4	80	VL129	2.5	1.3	14.5						
28	VL108769	4.0	4.2	46.4	81	VL1030	4.0	3.6	40.3						
29	VL107459	3.0	3.2	36.1	82	VL1033	5.0	3.2	35.9						
30	VL1012935	3.5	2.0	21.8	83	VL1228	3.0	3.4	37.3						
31	VL1255	3.0	3.6	40.4	84	VL1033	3.0	4.0	44.2						
32	VL1221	3.0	2.7	29.6	85	VL108856	2.0	5.2	58.2						
33	VL1216	4.5	2.4	27.1	86	VL062660	4.0	2.8	31.6						
34	VL062625	2.5	2.9	31.9	87	VL1251	5.0	2.8	30.8						
35	VL108844	3.5	4.9	54.2	88	VL1018393	3.0	2.7	30.3						
36	VL105549	2.0	2.0	22.2	89	VL1018535	5.0	3.1	34.2						
37	VL1018794	3.0	2.5	27.8	90	VL109863	3.0	2.3	25.6						
38	VL109184	3.0	3.0	33.2	91	VL062626	3.0	3.7	41.6						
39	VL1215	4.5	1.8	19.8	92	VL109178	4.5	3.0	33.1						
40	VL1222	5.0	3.9	42.8	93	VL1242	3.5	2.9	32.4						
41	VL1029	4.5	2.1	23.6	94	VL1018810	3.5	3.8	41.7						
42	VL108853	2.5	3.4	38.3	95	VL1018792	3.0	1.7	19.0						
43	VL108860	2.0	2.5	27.4	96	VL108866	3.0	3.0	33.3						
44	VL109080	2.0	3.0	33.3	97	VL108729	4.5	3.3	36.5						
45	VL109081	4.0	2.8	31.5	98	VL1243	3.5	5.3	59.4						
46	VL109086	3.5	3.4	37.3	99	CML474	5.0	3.9	42.8						
47	VL109086	2.5	4.1	45.4	100	CLO2450	2.0	2.0	21.8						
48	VL121102	3.0	3.0	33.3		General Mean	3.5	3.1	34.8						
49	VL109179	5.0	3.2	35.7		Plot size(sq.m)	2.4	1.9	1.9						
50	VL109179	5.0	4.4	49.3		Sowing date	31.07.2014	14.07.2014	14.07.2014						
51	VL109179	4.0	3.7	41.4		Harvest date	08.12.2014	10-11.11.2014	10-11.11.2014						
52	VL109179	5.0	2.9	32.5		Date of inoc.									
53	VL1017749	4.0	4.3	47.6											

Table 18. The mean disease score of trials SCAT-1457 (Arbhavi)

Entry	Name	TLB	Rust	Entry	Name	TLB	Rust	Entry	Name	TLB	Rust
1	VL143569	4	3	48	VL143616	3	4	95	VL143663	4	3
2	VL143570	3	2	49	VL143617	3	4	96	VL143664	3	4
3	VL143571	3	4	50	VL143618	2	3	97	VL143665	4	4
4	VL143572	4	3	51	VL143619	4	3	98	VL143666	4	3
5	VL143573	3	3	52	VL143620	4	3	99	VL143667	3	3
6	VL143574	4	3	53	VL143621	5	4	100	VL143668	4	4
7	VL143575	3	3	54	VL143622	4	3	101	VL143669	4	4
8	VL143576	4	3	55	VL143623	4	4	102	VL143670	5	2
9	VL143577	4	3	56	VL143624	4	3	103	VL143671	4	
10	VL143578	3	4	57	VL143625	5	2	104	VL143672	5	2
11	VL143579	4	3	58	VL143626	4	4	105	VL143673	5	4
12	VL143580	3	3	59	VL143627	3	4	106	VL143674	5	5
13	VL143581	3	3	60	VL143628	3	3	107	VL143675	5	
14	VL143582	4	3	61	VL143629	2	3	108	VL143676	5	3
15	VL143583	4	3	62	VL143630	3	3	109	VL143677	4	
16	VL143584	3	3	63	VL143631	4	3	110	VL143678	4	2
17	VL143585	3	3	64	VL143632	5	3	111	VL143679	5	3
18	VL143586	4	3	65	VL143633	3	4	112	VL143680	4	3
19	VL143587	3	3	66	VL143634	4	4	113	VL143681	3	3
20	VL143588	4	3	67	VL143635	2	3	114	VL143682	5	3
21	VL143589	3	3	68	VL143636	4	3	115	VL143683	3	3
22	VL143590	5	4	69	VL143637	3	4	116	VL143684	4	3
23	VL143591	3	3	70	VL143638	2	4	117	VL143685	3	
24	VL143592	4	4	71	VL143639	3	3	118	VL143686	4	3
25	VL143593	3	2	72	VL143640	4	4	119	VL143687	4	4
26	VL143594	3	3	73	VL143641	2	3	120	VL143688	5	2
27	VL143595	3	4	74	VL143642	3	4	121	VL143689	4	3
28	VL143596	4	3	75	VL143643	5	4	122	VL143690	3	4
29	VL143597	2	3	76	VL143644	4	4	123	VL143691	2	3
30	VL143598	3	3	77	VL143645	5	4	124	VL143692	3	3
31	VL143599	4	3	78	VL143646	4	5	125	VL143693	3	2
32	VL143600	3	4	79	VL143647	3	3	126	VL143694	5	4
33	VL143601	5	3	80	VL143648	2	4	127	VL143695	3	2
34	VL143602	4	3	81	VL143649	2	3	128	VL143696	3	2
35	VL143603	3	3	82	VL143650	2	3	129	VL143697	3	4
36	VL143604	5	4	83	VL143651	4	3	130	VL143698	3	3
37	VL143605	3	3	84	VL143652	4	4	131	VL143699	3	3
38	VL143606	3	2	85	VL143653	3	2	132	VL143700	3	4
39	VL143607	3	3	86	VL143654	4	3	133	VL143701	4	3
40	VL143608	4		87	VL143655	4	4	134	VL143702	3	2
41	VL143609	4	3	88	VL143656	3	3	135	VL143703	4	3
42	VL143610	4	4	89	VL143657	3	3	136	VL143704	3	4
43	VL143611	4	4	90	VL143658	4	4	137	VL143705	4	4
44	VL143612	3		91	VL143659	4	4	138	VL143706	4	3
45	VL143613	3	3	92	VL143660	4	3	139	VL143707	3	3
46	VL143614	4	3	93	VL143661	4	3	140	VL143708	5	5
47	VL143615	3	2	94	VL143662	4	3	141	VL143709	4	3

Table 18. The mean disease score of trials SCAT-1457 (Arbhavi)

Entry	Name	TLB	Rust	Entry	Name	TLB	Rust	Entry	Name	TLB	Rust
142	VL143710	3	4	189	VL143757	4	3	236	VL143804	5	4
143	VL143711	3	4	190	VL143758	3	4	237	VL143805	5	3
144	VL143712	2	3	191	VL143759	3	3	238	VL143806	4	3
145	VL143713	4	3	192	VL143760	3	2	239	VL143807	4	4
146	VL143714	3	2	193	VL143761	4	3	240	VL143808	5	3
147	VL143715	3	4	194	VL143762	3	2	241	VL143809	4	3
148	VL143716	2		195	VL143763	3	3	242	VL143810	4	
149	VL143717	3	3	196	VL143764	4	3	243	VL143811	5	4
150	VL143718	3		197	VL143765	4	3	244	VL143812	5	
151	VL143719		4	198	VL143766	4	3	245	VL143813	4	4
152	VL143720	3	2	199	VL143767	4	3	246	VL143814	5	
153	VL143721	2	3	200	VL143768	4	3	247	VL143815	5	4
154	VL143722	4	4	201	VL143769	4	3	248	VL143816	4	
155	VL143723	3	4	202	VL143770	3		249	VL143817	5	4
156	VL143724	4	3	203	VL143771	3	3	250	VL143818	5	3
157	VL143725	4	4	204	VL143772	3	4	251	VL143819	5	2
158	VL143726	4	3	205	VL143773	3	2	252	VL143820	5	3
159	VL143727	3	3	206	VL143774	3	3	253	VL143821	5	4
160	VL143728	3	2	207	VL143775	4	3	254	VL143822	4	3
161	VL143729	3	2	208	VL143776	3	4	255	VL143823	4	3
162	VL143730	4	2	209	VL143777	4	4	256	VL143824	5	3
163	VL143731	3	3	210	VL143778	4	3	257	VL143825	4	4
164	VL143732	3	2	211	VL143779	4	3	258	VL143826	5	4
165	VL143733	3	2	212	VL143780	3	3	259	VL143827	4	3
166	VL143734	4	2	213	VL143781	3	3	260	VL143828	5	3
167	VL143735	4	3	214	VL143782	3	2	General Mean		3.6	3.1
168	VL143736	3		215	VL143783	4	4	Plot size(sq.m)		2.4	2.4
169	VL143737	2		216	VL143784	4	2	Sowing date		31.07.2014	
170	VL143738	3		217	VL143785	3	4	Harvest date		08.12.2014	
171	VL143739	3	2	218	VL143786	3		Date of inoc.			
172	VL143740	2	2	219	VL143787	3	2				
173	VL143741	3	2	220	VL143788	3	2				
174	VL143742	4	2	221	VL143789	3	3				
175	VL143743	4	2	222	VL143790	3	4				
176	VL143744	4		223	VL143791	2	3				
177	VL143745	5		224	VL143792	4	3				
178	VL143746	4	4	225	VL143793	3	2				
179	VL143747	3		226	VL143794	4	2				
180	VL143748	4	3	227	VL143795	3	2				
181	VL143749	4	5	228	VL143796	2	2				
182	VL143750	4	3	229	VL143797	5	2				
183	VL143751	3	4	230	VL143798	4	3				
184	VL143752	3	3	231	VL143799	5	3				
185	VL143753	3	3	232	VL143800	5	3				
186	VL143754	3	3	233	VL143801	5	4				
187	VL143755	4	3	234	VL143802	5	3				
188	VL143756	5	2	235	VL143803	5					

Annexures

Annexure I

Maize area, production and yield statistics in Indian states from 2011-12 to 2013-14

State/ UT	Season	Area ('000 Hectares)			Production ('000 Tonnes)			Yield (Kg/ha)		
		2011-12	2012-13	2013-14	2011-12	2012-13	2013-14	2011-12	2012-13	2013-14
Andhra Pradesh	Khariif	531.0	565	622.0	1493.0	2342	2168.9	2812	4145	3487
	Rabi	333.0	407	441.0	2165.0	2513	2799.0	6502	6174	6347
	Total	864.0	972	1063.0	3658.0	4855	4967.9	4234	4995	4673
Arunachal Pradesh	Khariif	40.5	*	*	58.1	*	*	1434	NA	NA
	Rabi	6.0	*	*	10.4	*	*	1736	NA	NA
	Total	46.5	*	*	68.5	*	*	1473	NA	NA
Asom	Khariif	21.3	21.3	21.0	15.3	23.7	17.0	719	1113	810
Bihar	Autumn	263.9	261	291.9	622.4	646.2	613.9	2358	2476	2103
	Rabi	411.0	424.6	459.8	988.3	1829.6	1403.8	2404	4309	3053
	Total	675.0	685.6	751.7	1610.7	2475.8	2017.7	2386	3611	2684
Chhattisgarh	Khariif	104.0	107.2	111.1	172.0	207.5	229.1	1654	1936	2062
Gujarat	Khariif	387.0	373	333.0	539.0	625	434.0	1393	1676	1303
	Rabi	129.0	85	128.0	247.0	166	258.0	1915	1953	2016
	Total	516.0	458	461.0	786.0	791	692.0	1523	1727	1501
Haryana	Khariif	9.0	9	9.0	24.0	23	27.0	2667	2556	3000
Himachal Pradesh	Khariif	294.2	294.3	292.1	715.4	657.2	679.0	2432	2233	2325
Jammu & Kashmir	Khariif	314.0	310.9	298.7	505.0	512.3	530.5	1608	1648	1776
Jharkhand	Autumn	207.4	243.4	253.4	305.6	435.8	504.5	1473	1790	1991
	Rabi	8.1	5.9	6.3	15.9	15.9	11.8	1970	2695	1873
	Total	215.5	249.3	259.7	321.5	451.7	516.2	1492	1812	1988
Karnataka	Khariif	1206.0	1162	1250.0	3644.0	2978	3590.0	3022	2563	2872
	Rabi	143.0	160	132.0	441.0	497	394.0	3084	3106	2985
	Total	1349.0	1322.0	1382.0	4085.0	3475.0	3984.0	3028	2629	2883
Madhya Pradesh	Khariif	862.8	845.4	1003.0	1287.4	1513.6	1510.2	1492	1790	1506
Maharashtra	Khariif	736.0	689	955.0	2127.0	1582	2479.2	2890	2296	2596
	rabi	145.0	133	254.0	306.0	242	596.0	2110	1820	2346
	Total	881.0	822	1209.0	2433.0	1824	3075.2	2762	2219	2544
Manipur	Khariif	20.0	*	*	35.4	*	*	1768	NA	NA
	Rabi	4.9	*	*	10.5	*	*	2165	NA	NA
	Total	24.9	*	*	45.9	*	*	1845	NA	NA
Meghalaya	Khariif	17.4	*	*	26.5	*	*	1529	NA	NA
Mizoram	Khariif	6.7	*	*	8.1	*	*	1214	NA	NA
	Rabi	0.2	*	*	0.3	*	*	1238	NA	NA
	Total	6.9	*	*	8.4	*	*	1214	NA	NA
Nagaland	Khariif	68.5	*	*	134.3	*	*	1960	NA	NA

State/ UT	Season	Area ('000 Hectares)			Production ('000 Tonnes)			Yield (Kg/ha)		
		2011-12	2012-13	2013-14	2011-12	2012-13	2013-14	2011-12	2012-13	2013-14
Odisha	Kharif	98.9	90.9	91.5	202.3	217.5	253.2	2046	2393	2767
	Rabi	4.0	3.6	3.7	9.9	10	10.5	2496	2778	2838
	Total	102.9	94.5	95.3	212.2	227.5	263.7	2063	2407	2767
Punjab	Kharif	126.0	129	130.0	502.0	475	507.0	3984	3682	3900
Rajasthan	Kharif	1039.1	978.4	916.4	1644.9	1725.2	1463.8	1583	1763	1597
	Rabi	6.5	7.8	10.3	22.2	29.9	38.4	3434	3833	3728
	Total	1045.6	986.2	926.7	1667.0	1755.1	1502.2	1594	1780	1621
Sikkim	Kharif	40.0	*	*	66.2	*	*	1657	NA	NA
Tamil Nadu	Kharif	176.3	171.3	175.2	1001.7	609	995.5	5682	3555	5682
	Rabi	104.3	119.6	125.0	693.8	337.2	640.6	6649	2819	5125
	Total	280.6	291	300.2	1695.5	946.2	1636.1	6042	3252	5450
Tripura	Kharif	3.7	*	*	5.1	*	*	1353	NA	NA
Uttar Pradesh	Kharif	745.0	698	696.0	1232.0	1154.5	1151.2	1654	1654	1654
	Rabi	42.0	38	44.0	76.0	80	85.4	1810	2105	1941
	Total	787.0	736	740.0	1308.0	1234.5	1236.6	1662	1677	1671
Uttarakhand	Kharif	28.0	27.9	25.0	41.0	40.1	35.0	1464	1437	1400
	Rabi	*	0.1		*	0.1			1000	
	Total	28.0	28	25.0	41.0	40.2	35.0	1464	1436	1400
West Bengal	Kharif	34.1	40.6	43.7	77.3	96.8	117.4	2270	2384	2686
	Rabi	63.8	65	85.0	286.8	320	405.0	4497	4923	4765
	Total	97.8	105.6	128.7	364.1	416.8	522.4	3722	3947	4059
A & N Islands	Kharif	0.2	*	*	0.3	*	*	2125	NA	NA
D & N Haveli	Kharif	0.1	*	*	0.1	*	*	1000	NA	NA
	Rabi	0.0	*	*	0.0	*	*	1000	NA	NA
	Total	0.2	*	*	0.2	*	*	1000	NA	NA
Others	Kharif	-	194.1	208.0	-	332.6	370.1	NA	1714	1779
	Rabi	-	8.7	10.7	-	23.1	28.4	NA	2655	2654
	Total	-	202.8	218.7	-	355.6		NA	1753	1822
All India	Kharif	7381.2	7214.5	7726.1	16486	16197	17677	2234	2245	2288
	Rabi	1400.7	1458.2	1699.8	5273	6064	6671	3765	4158	3925
	Total	8713.4	8672.7	9425.8	21625	22261	24347.5	2482	2567	2583

*Included in the others

Annexure II**Meteorological Observations during Kharif- 2014**

S.No	Station Name	Month	Temperature (°C)		Rainfall of Month (mm)	R.H (%)		Sunshine Hrs.
			Min	Max		Min	Max	
1.	Bajaura	April	8.2	25.2	89.9	42.0	93.0	97.7
		May	12.6	28.2	113.3	47.0	91.0	120.0
		June	16.8	32.4	39.5	45.0	90.0	136.9
		July	21.1	30.7	135.0	60.0	92.0	126.7
		August	20.8	31.1	117.9	57.0	93.0	138.4
		September	17.0	29.5	50.4	57.0	91.0	106.5
		October	12.6	27.7	16.6	46.0	92.0	104.8
		November	2.8	24.8	7.1	35.0	95.0	58.5
2	Bhubaneswar	May	25.7	39.2	7.7	48.0	87.0	202.2
		June	26.3	36.6	5.1	61.0	87.0	110.0
		July	24.7	31.4	2.6	82.0	94.0	410.5
		August	24.7	33.2	4.7	78.0	93.0	261.5
		September	24.3	31.6	4.4	75.0	95.0	261.1
		October	22.0	32.0	6.3	63.0	93.0	383.1
		November	18.0	30.9	3.6	44.0	90.0	163.1
3.	Barapani	August	19.2	27.9	582.8	76.2	87.7	-
		September	18.2	27.0	463.1	74.0	86.9	-
		October	14.4	27.0	213.3	65.8	85.0	-
		November	10.9	24.1	2.8	58.6	85.6	-
5.	Mandya	March	14.70	31.78	20	39.08	83.82	7.98
		April	19.28	34.24	20.2	34.05	83.55	5.40
		May	19.78	33.56	176	39.22	88.7	7.04
		June	19.10	32.33	149.9	36.28	90.24	5.81
		July	18.60	30.43	41.1	45.15	88.18	3.88
		August	18.74	29.44	111.6	53.54	89.74	3.74
		September	18.50	29.63	28.24	55.68	90.03	5.5
		October	18.52	30.38	141.2	62.57	91.33	4.68
	November	17.02	29.30	10	50.02	90.20	6.47	
6.	Dhaulakaun	June	22.72	39.16	0.987	39.73	64.43	-
		July	32.52	32.52	32.52	32.52	32.52	-
		August	22.19	33.57	15.46	65.39	88.97	-
		September	20.39	31.46	7.187	71.00	90.00	-
		October	29.66	29.66	29.66	29.66	29.66	-
7.	Ludhiana	June	27.1	40.6	32.2	44		16.3
		July	27.9	35.5	154.2	67		6.3
		August	26.9	34.1	89.6	71		7.4
		September	23.4	31.3	160.8	76		7.7
		October	18.9	31.2	12.9	69		6.0
8.	Arbhavi	June	-	-	63.0	-		-
		July	-	-	85.3	-		-
		August	-	-	82.1	-		-
		September	-	-	85.3	-		-
		October	-	-	82.4	-		-
	November	-	-	37.7	-		-	
9.	Coimbatore	June	24.3	32.8	10.6	53		7.4
		July	23.3	30.7	41.2	60		4.3
		August	23.1	30.6	75.8	59		5.0
		September	22.6	31.9	90.4	55		7.3
		October	22.5	30.1	352.1	68		5.4
	November	21.3	29.5	3.4	58		4.2	

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

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

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

Sorghum grains soaked in water in a conical flask, autoclaved twice, seeded with fungus under aseptic condition are kept for incubation at 25-27°C. The flasks are shaken once in 2-3 days to facilitate uniform growth on grains. After 10 days the material is ready for inoculation. Prepare a fine powder of impregnated sorghum grains after shade drying. Put a pinch of this powder in the leaf whorl of 30-35 days old plant. Maintain adequate moisture for longer period to permit spore germination with the help of sprayer. Disease can also be created by spraying the spore suspension prepared from the pure culture of fungi or placing a pinch of leaf meal (prepared by grinding dried diseased leaves collected from the previous season) into whorl of each plant at 30-35 centimeter plant height with spray of 10-12 ml of water in whorl in case of dry weather. Second inoculation can be followed if the symptoms do not appear even after a week of first inoculation. Data can be recorded on 30-35 days after inoculation following rating scale of Payak and Sharma[#] (1983) mentioned below:

Rating scale	Disease severity (%)	PDI*	Disease reaction
1.0	Very slight to slight infection, one or two to few scattered lesions on lower leaves	20.0	Resistant (Score: ≤ 2.0) (PDI: ≤ 40.0)
2.0	Light infection, moderate number of lesions on lower leaves only	40.0	
3.0	Moderate infection, abundant lesions on lower leaves, few on middle leaves	60.0	Moderately resistant (Score: 2.1 – 3.0) (PDI: 40.1 – 60.0)
4.0	Heavy infections abundant on lower and middle leaves, extending to upper leaves	80.0	Moderately susceptible (Score: 3.1 – 4.0) (PDI: 60.1 – 80.0)
5.0	Very heavy infection, lesions abundant on almost all leaves plants prematurely dry or killed by the disease.	100.0	Susceptible (Score: ≥ 4.1) (PDI: ≥ 80.0)

*Percent disease index (PDI)

2. Banded leaf and sheath blight (BLSB)

Soak barley grains in water for 24 hours and dispense 40g in 250 ml Erlenmeyer flask after removing excess water; autoclave at a pressure of 1.05 kg/sq. cm for 30 minutes. Homogenize 2-3 days old growth of pathogen taken from potato dextrose agar in sterile water and seed 5 ml in each flask. Incubate at 27°C for 10 days. Inoculations should be made during the rainy season on 30-45 days old plants with grain culture (2-4 grains) inserted between stalk and sheath at second or third level from soil. Grains placed at junction of sheath and leaf can

also create optimum disease level and do not fall away with strong wind or heavy rain. Disease is recoded after 30-35 days of inoculations on basis of following rating scale of Payak and Sharma[#] (1983).

Rating scale	Disease severity (%)	PDI*	Disease reaction
1.0	Disease on one leaf sheath only; few small, non-coalescent lesions present	20.0	Resistant (Score: ≤ 2.0) (PDI ≤ 40.0)
1.5	Disease on two sheaths: lesions large and coalescent	30.0	
2.0	Disease up to four sheaths; lesions many and always coalescent	40.0	
2.5	As in disease rating symptoms of 2.0 + rind discolored with small lesions	50.0	Moderately resistant (Score: 2.1 - 3.0) (PDI 40.1 - 60.0)
3.0	Disease on all sheaths except two internodes below the ear	60.0	
3.5	Disease up to one internode below ear shoot; rind discoloration on many internodes with large depressed lesions	70.0	Moderately susceptible (Score: 3.1 - 4.0) (PDI 60.1 - 80.0)
4.0	Disease up to the internode bearing the ear shoot but shank not affected	80.0	
4.5	Disease on the ear; husk leaves show bleaching, bands and caking among themselves as also silk fibres; abundant fungal growth between and on kernels; kernel formation normal except being lusterless; ear size less than normal; some plants prematurely dead	90.0	Susceptible (Score: ≥ 4.0) (≥ 80.0)
5.0	In addition to disease rating symptoms of 4.5, shrinkage of stalk; reduced ear dimensions, wet rot and disorganization of ear; kernel formation absent or rudimentary; prematurely dead plants common; abundant sclerotial production on husk leaves, kernels, ear tips and stalk fibres	100.0	

*Percent disease index (PDI)

3. Brown stripe downy mildew (BSDM)

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

Artificial epiphytotic condition could also be created by putting 2-3 cm pieces of freshly infected leaves containing sporangia of the fungus in the whorls of seedlings. This should be done during cloudy weather in the evening between 5 and 7 P.M. at 17, 24 and 30 days after planting. In experimental plots, where disease occurs year after year, only this method is adequate for creating epidemics. In areas of low disease incidence, both the methods of inoculation can

be combined to obtain better results. Disease rating of individual maize varieties can be done by evaluation all plants of the row (s) using 1-5 rating scale of Payak and Sharma[#] (1983) as described below:

Rating scale	Disease severity (%)	PDI*	Disease reaction
1.0	No infection	20.0	Resistant (Score: ≤ 2.0) (PDI: ≤ 40.0)
2.0	Light infection, a few scattered to moderate number of stripes on lower leaves	40.0	
3.0	Moderate infection, abundant stripes on lower leaves and few on middle leaves	60.0	Moderately resistant (Score: 2.1 - 3.0) (PDI: 40.1 - 60 .0)
4.0	Heavy infection, stripes abundant on lower and middle leaves extending to upper leaves	80.0	Moderately susceptible (Score: 3.1 - 4.0) (PDI: 60.1 - 80 .0)
5.0	Very heavy infection, stripes abundant on all leaves. No cob formation. Plants may be killed prematurely.	100.0	Susceptible (Score: ≥ 4.0) (PDI: ≥ 80 .0)

*Percent disease index (PDI)

4. Curvularia leaf spot (CLS)

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

At least three observations are made and third observation at 80-85 DAS would be final based on leaf area covered by spots caused by pathogen. Observations are recorded using 1-5 rating scale as described below:

Rating scale	Disease severity (%)	Disease reaction
1.0	1-20 % area of leaf infected	Resistant (Score: ≤ 2.0) (Severity: ≤ 40.0)
2.0	21-40 % area of leaf infected	
3.0	41-60 % area of leaf infected	Moderately resistant (Score: 2.1 - 3.0) (Severity: 40.1 - 60 .0)
4.0	61-80 % area of leaf infected	Moderately susceptible (Score: 3.1 - 4.0) (Severity: 60.1 - 80 .0)
5.0	81-100 % area of leaf infected	Susceptible (Score: ≥ 4.0) (Severity: ≥ 80 .0)

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

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

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

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

Repeating the inoculation two to three times give a good result. In addition 2-4 lines of susceptible varieties grown as border rows around the screening plots also help to spread the disease. Disease rating is done as per scale devised by Payak and Sharma[#] (1983).

Rating scale	Disease severity (%)	PDI*	Disease reaction
1.0	Very slight to slight infection, one or two to few scattered pustules on lower leaves only.	20.0	Resistant (Score: ≤ 1.0) (PDI: ≤ 20.0)
2.0	Moderate number of pustules on lower leaves only (light infection)	40.0	Moderately resistant (Score: 1.1 - 2.0) (PDI: 20.1 - 40.0)
3.0	Abundant pustules on lower leaves; few on middle leaves (moderate infection)	60.0	Moderately susceptible (Score: 2.1 - 3.0) (PDI: 40.1 - 60.0)
4.0	Abundant pustules on lower and middle leaves; extending to upper leaves (heavy infection)	80.0	Susceptible (Score: 3.1 - 4.0) (PDI: 60.1 - 80.0)
5.0	Abundant pustules on all leaves, plant may dry prematurely or killed by the disease (very heavy infection)	100.0	Highly susceptible (Score: ≥ 4.0) (PDI: ≥ 80.0)

*Percent disease index (PDI)

6. Sorghum downy mildew (SDM)

A. Screening through direct inoculation with conidia:

- i. *Collection and maintenance of inoculum:* Sorghum plants showing systemic infection of downy mildew from the farmer's fields in and are collected during morning hours, preserved in polythene bags and brought to the laboratory. Conidiophores and conidia from the white bloom found on the lower surface of the leaves are washed with a fine jet of distilled water and conidial suspension is collected from the sorghum leaves. The seedlings of susceptible cultivar are spray inoculated at 2 leaf stage (6-7 days old) with the conidial suspension collected from the sorghum leaves. The inoculation of the seedlings is continued till the plants reached 15 days and systemic symptoms are seen. The inoculum from these plants is multiplied by spray inoculating to the fortnightly sowings of maize. The infected plants are maintained in the plot throughout the experimental period. Artificial inoculation technique developed by Lal and Singh (1984) is followed to induce the disease incidence by spraying conidial suspension between 2.30 a.m. and 4.00 a.m.
 - ii. *Evaluation of maize genotypes under artificial inoculation:* Maize genotypes are evaluated against sorghum downy mildew by artificial inoculation. Artificial inoculation is done when the plants are at two leaves stage as described by Lal and Singh (1984). Diseased plants from which inoculum required to be drawn is sprayed with water at 6.00 PM so that leaves would have a thin film of water for good sporulation. By 2.00 AM, the inoculation crew assembles in the field with cleaned sprayers, torches and buckets. By 2.30 AM the diseased leaves with good sporulation are searched and washed in the water at the rate of 15 leaves per litre of water collected in the buckets. This operation is completed by 3.00 AM. Then the collected spore suspension in different buckets is thoroughly mixed and made upto 25 litres. The 25 litres of conidial inoculum is collected from 375 diseased leaves. The inoculation is completed by 4.00 AM with hand compression sprayer. Between 6.00 AM and at 6.00 PM water spray is given to the inoculated plot to create the required humidity artificially. With this method 100 percent disease incidence was created.
- B. Spreader row technique: Spreader rows are sown 15-20 days prior to the sowing of the entries in 2.5 meter bands with a row spacing of 60 cm and plant to plant spacing of 30 cm. each band consisting of four rows surrounding on all the four directions. For this, highly susceptible variety will be used. Inoculation of these spreader rows is done by following the above artificial inoculation procedure. Test entries were sown as mentioned above.

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

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

7. Rajasthan Downy Mildew (RDM)

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

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

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

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

A virulent isolate of *Erwina chrysanthemi* corn pathotype should be selected for inoculation. To maintain the virulence of the bacterium, it should be inoculated on healthy plants and then reisolated every year before mass inoculation. In order to isolate a virulent strain, the inoculated plants showing characteristic symptoms of the disease are selected. A small piece of rotten internode is immediately dipped into mercuric chloride solution (1:1000) for 5 seconds and passed through three changes of sterile water. The piece is then cut into two halves with sterilized blade, put into little sterile water and then teased apart with sterile needle. The small quantities of resulting suspension are then removed with a flamed wireloop and streaked out on well dried nutrient agar plates, the aim being to separate the cells so that they produce individual colonies. The characteristic colonies are identified after 2 days of incubation at 30°C and used for subculturing. The culture is used for testing the

pathogenicity. The cultures which induce the typical symptoms of the disease within 48 hours of inoculation are used for mass inoculation. The inoculum is increased for mass inoculation on nutrient broth for 48 hours at 30°C. The inoculum was diluted 10 times with sterile water to maintain a concentration of approximate $1 \times 10^{7-9}$ bacteria/ml.

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

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

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

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

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

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

internodes and its subsequent spread. For scoring disease severity of PFSR, 1-9 rating scale of Payak and Sharma[#] (1983) is followed:

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

*Percent disease index (PDI)

10. Maize cyst nematode (*Heterodera zae*)

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

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

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

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

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

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

#M.M. Payak and R.C. Sharma. Disease rating scales in maize in India. *In: Techniques of Scoring for Resistance to Important Diseases of Maize*. All India Coordinated Maize Improvement Project, Indian Agriculture Research Institute, New Delhi, 1983, pp. 1-4.

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