

International Chickpea Nurseries



Project: C-102(85)IC: International trials for the semi-arid tropics

**Report of the
Thirteenth International Chickpea Trials and Nurseries
1987-88**

Appendix Tables



**ICRISAT
Legumes Program**

International Crops Research Institute for the Semi-Arid Tropics

Patancheru, Andhra Pradesh 502 324, India

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Appendix 1. Characteristics of entries in ICBN-DB at
Dokri - 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flo wering	Plant hei- ght (cm)	Days to matu- rity	100 seed mass (g)	Seed Yield kg/ha	Rank
1	87233	78	43	121	24	2138	31
2	86221	79	40	148	18	2698	16
3	86223	77	38	121	18	2901	8
4	86203	76	42	121	15	3417	2
5	86229	78	48	123	16	3001	7
6	86205	76	41	119	18	1739	36
7	86214	74	42	120	13	2211	29
8	86211	77	42	106	18	2689	17
9	87201	75	59	114	17	2189	30
10	87202	77	60	119	17	1917	35
11	87203	76	41	114	15	976	39
12	87204	77	57	117	44	3343	4
13	87205	75	47	112	19	2214	28
14	87206	74	52	115	20	2337	26
15	87207	76	48	113	21	2425	24
16	87208	78	35	113	20	2713	15
17	87209	76	45	118	19	2522	21
18	87210	77	46	124	18	2113	34
19	87211	77	35	111	19	1468	37
20	87212	78	42	120	17	2841	11
21	87213	76	41	120	19	3269	5
22	87214	77	48	113	17	2841	10
23	87215	75	42	116	19	2269	27
24	87216	75	40	116	20	2781	13
25	87217	77	45	119	18	2492	23
26	87218	75	44	116	19	2606	18
27	87219	77	50	115	15	3409	3
28	87220	77	43	122	18	2894	9
29	87221	76	37	118	19	3086	6
30	87222	75	41	117	18	2560	19
31	87223	76	36	114	15	2130	32
32	87224	76	45	120	27	2124	33
33	87225	77	52	114	20	2834	12
34	87226	76	46	119	21	1436	38
35	87227	76	45	118	19	2522	21
36	87228	78	53	121	19	2776	14
37	87229	77	47	113	18	2548	20
38	87230	74	37	117	18	2356	25
39	87231	77	46	121	17	2498	22
40	87232	78	58	116	20	3602	1
41	4918	77	42	116	19	2747	
GM		76.41	44.9	118.0	19.1	2522.1	
SE		1.51	3.9	6.8	6.1	461.0	
CV		2.80	12.2	8.1	44.9	25.9	

Appendix 2. characteristics of entries in ICSN-DS at
Patancheru - 1987-88

Entry no	ICC./ ICCL.No	Days to 50% flo wering	Plant hei- ght (cm)	Days to matu- rity	100 seed mass (g)	Seed Yield kg/ha	Rank
1	87233	52	30	100	20	1250	39
2	86221	56	32	105	21	1535	23
3	86223	55	31	105	19	1402	31
4	86203	55	32	104	21	1662	14
5	86229	55	33	107	16	2137	1
6	86205	54	32	104	22	1432	28
7	86214	54	32	101	21	1830	6
8	86211	54	26	101	19	1812	7
9	87201	52	28	101	19	1555	21
10	87202	55	32	105	18	1890	4
11	87203	54	34	101	19	1400	32
12	87204	55	26	100	20	1512	25
13	87205	53	31	100	19	1398	33
14	87206	54	37	100	32	2000	3
15	87207	54	32	101	30	1466	26
16	87208	56	31	102	21	1887	5
17	87209	55	29	103	17	1329	35
18	87210	55	28	104	20	1320	36
19	87211	54	28	100	21	1379	34
20	87212	53	32	100	20	1625	16
21	87213	51	30	102	24	1723	9
22	87214	54	33	100	21	1682	11
23	87215	54	30	103	20	1668	13
24	87216	56	28	101	20	1677	12
25	87217	54	26	101	20	1454	27
26	87218	56	24	101	16	1173	40
27	87219	53	29	101	21	1576	20
28	87220	56	33	101	17	2048	2
29	87221	54	33	100	19	1625	15
30	87222	55	33	101	18	1427	29
31	87223	55	33	100	17	1611	18
32	87224	54	30	100	23	1252	38
33	87225	55	25	100	18	1270	37
34	87226	55	30	101	22	1424	30
35	87227	54	32	100	21	1618	17
36	87228	55	29	101	18	1553	22
37	87229	54	30	100	17	1590	19
38	87230	54	29	101	17	1513	24
39	87231	55	27	101	20	1683	10
40	87232	54	31	100	21	1743	8
41	4918	54	30	100	21	1473	
MEAN		54.25	30.3	101.5	20.1	1578.3	
SE		0.59	2.0	0.9	0.5	184.1	
CV		1.55	9.3	1.3	3.3	16.5	

Appendix 3. Characteristics of entries in TCSW-DS at Ranchi - 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flowering	Plant height (cm)	Days to maturity	100 seed mass (g)	Seed yield kg/ha	Rank
1	87233	61	35	132	18	1434	19
2	86221	66	41	133	19	1911	3
3	86223	64	39	137	18	1200	32
4	86203	66	35	129	21	1608	15
5	86229	66	41	136	17	1771	10
6	86205	62	41	130	22	994	35
7	86214	64	32	127	17	774	39
8	86211	66	40	130	19	1649	14
9	87201	62	42	137	18	1476	18
10	87202	64	38	132	18	1756	11
11	87203	65	46	133	18	1264	31
12	87204	66	36	139	20	1879	5
13	87205	61	36	134	23	1335	26
14	87206	62	48	129	35	1902	4
15	87207	67	39	135	28	1311	28
16	87208	66	44	134	17	2305	1
17	87209	66	42	138	12	643	40
18	87210	65	33	132	26	1789	8
19	87211	59	48	136	20	1357	24
20	87212	66	41	131	23	817	37
21	87213	60	36	134	29	1321	27
22	87214	65	50	140	23	1569	16
23	87215	59	35	128	22	1488	17
24	87216	63	43	129	22	1388	22
25	87217	64	49	129	23	818	36
26	87218	64	37	136	16	1353	25
27	87219	64	50	137	21	1968	2
28	87220	64	35	128	16	1401	21
29	87221	67	41	133	18	1789	9
30	87222	64	45	138	18	1705	13
31	87223	59	32	127	16	1280	29
32	87224	66	40	127	20	1833	6
33	87225	63	37	137	16	803	38
34	87226	62	43	130	19	1812	7
35	87227	63	48	133	21	1747	12
36	87228	63	41	128	21	1428	20
37	87229	61	34	129	16	1357	23
38	87230	59	35	125	11	1089	34
39	87231	64	35	137	22	1169	33
40	87232	63	45	132	27	1270	30
41	4918	63	43	129	17	1389	
MEAN		63.54	40.2	132.5	20.2	1444.1	
SE		0.29	1.6	0.8	0.6	55.7	
CV		0.64	5.6	0.8	4.4	5.4	

Appendix 4. Characteristics of entries in ICSM-DS at Junagadh - 1987-88

Entry no	ICC./ICCL.No.	Days to 50% flowering	Plant height (cm)	Days to maturity	100 seed mass (g)	Seed Yield kg/ha	Rank
1	87233	45	27	94	21	739	29
2	86221	46	25	97	19	771	26
3	86223	48	28	95	19	1134	5
4	86203	51	28	91	21	1090	8
5	86229	47	26	95	19	791	22
6	86205	45	27	96	20	826	15
7	86214	46	28	98	19	836	13
8	86211	48	25	88	21	1151	4
9	87201	46	28	102	18	780	24
10	87202	47	26	95	18	1208	2
11	87203	45	27	92	20	747	28
12	87204	45	27	95	17	881	10
13	87205	48	30	98	19	757	27
14	87206	46	27	92	26	817	17
15	87207	44	27	92	23	606	39
16	87208	46	25	86	26	707	30
17	87209	47	31	97	18	780	23
18	87210	47	23	92	21	647	36
19	87211	46	23	98	16	834	14
20	87212	47	28	102	20	775	25
21	87213	47	23	89	21	1134	6
22	87214	46	23	101	20	620	37
23	87215	46	25	101	20	678	33
24	87216	46	23	102	16	792	20
25	87217	47	25	96	18	1112	7
26	87218	46	25	94	19	869	11
27	87219	45	27	95	20	792	21
28	87220	45	27	102	18	682	32
29	87221	46	28	92	20	824	16
30	87222	46	24	96	20	808	18
31	87223	48	26	92	15	706	31
32	87224	47	20	88	19	325	40
33	87225	46	21	100	16	867	12
34	87226	46	24	100	19	805	19
35	87227	45	23	91	20	647	35
36	87228	47	23	92	16	614	38
37	87229	46	24	96	20	677	34
38	87230	46	24	95	19	1299	1
39	87231	51	28	92	21	1044	9
40	87232	47	22	93	18	1183	3
41	4918	50	25	96	21	894	
MEAN		46.41	25.4	95.1	19.4	833.9	
SE		1.57	2.5	3.0	2.3	132.4	
CV		4.80	13.9	4.4	17.1	22.5	

Appendix 5. Characteristics of entries in ICSN-DS at
Oulberga - 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flo wering	Days to matur ity	100 seed mass (g)	Seed Yield kg/ha	Rank
1	87233	54	95	17	1523	28
2	86221	52	92	19	1766	6
3	86223	57	99	17	1344	38
4	86203	57	95	17	1639	18
5	86229	56	96	14	1436	32
6	86205	54	98	18	1572	23
7	86214	55	93	19	1697	13
8	86211	55	95	16	1595	22
9	87201	55	96	16	1782	4
10	87202	56	96	14	1375	34
11	87203	53	94	17	1688	14
12	87204	52	100	18	1295	39
13	87205	58	93	18	1820	3
14	87206	53	98	28	1561	24
15	87207	51	100	25	1355	36
16	87208	59	97	20	2014	1
17	87209	56	95	15	1560	25
18	87210	53	96	18	1637	19
19	87211	58	96	19	1647	17
20	87212	57	95	18	1630	20
21	87213	54	94	23	1774	5
22	87214	55	99	19	1508	29
23	87215	54	98	19	1702	12
24	87216	56	97	18	1534	27
25	87217	55	102	19	1743	9
26	87218	58	101	16	1867	2
27	87219	53	96	22	1746	8
28	87220	53	93	15	1138	40
29	87221	52	92	16	1351	37
30	87222	52	96	17	1554	26
31	87223	51	93	19	1451	31
32	87224	53	97	19	1362	35
33	87225	53	98	16	1460	30
34	87226	56	92	18	1757	7
35	87227	51	94	20	1388	33
36	87228	58	96	16	1608	21
37	87229	57	92	16	1724	10
38	87230	56	93	15	1672	15
39	87231	57	105	20	1723	11
40	87232	55	94	18	1653	16
41	4918	57	95	19	1702	
MEAN		54.70	96.0	18.2	1591.3	
SE		0.55	1.1	-	108.1	
CV		1.42	1.5	-	9.6	

Appendix 6. Characteristics of entries in ICSN-DS at Raipur - 1987-88

Entry no	ICC./ ICCL.No.	Plant height (cm)	Days to maturity	100 seed mass (g)	Seed Yield	
					kg/ha	Rank
1	87233	42	109	19	1462	30
2	86221	42	108	19	1925	5
3	86223	41	108	16	1864	8
4	86203	42	108	18	1597	22
5	86229	43	110	16	1340	34
6	86205	43	108	19	1929	4
7	86214	46	109	12	2002	2
8	86211	43	109	17	1873	7
9	87201	37	108	15	1586	23
10	87202	49	107	15	2006	1
11	87203	44	106	15	1704	15
12	87204	39	110	21	1496	28
13	87205	32	112	18	1263	35
14	87206	44	108	23	1411	32
15	87207	43	108	17	1630	20
16	87208	43	108	16	1748	14
17	87209	43	107	14	1779	10
18	87210	43	108	17	1630	20
19	87211	42	105	18	1657	18
20	87212	43	108	16	1908	6
21	87213	44	107	23	1773	11
22	87214	43	110	16	1580	24
23	87215	43	108	17	1630	20
24	87216	39	108	16	1571	25
25	87217	46	108	18	1479	29
26	87218	42	107	25	1769	12
27	87219	43	110	18	1563	26
28	87220	43	109	14	1539	27
29	87221	44	108	15	1406	33
30	87222	40	109	16	1447	31
31	87223	49	108	16	1628	21
32	87224	47	107	21	1631	19
33	87225	43	105	15	1958	3
34	87226	44	106	14	1660	17
35	87227	43	111	17	860	37
36	87228	43	108	17	1630	20
37	87229	46	106	16	1805	9
38	87230	42	112	15	1755	13
39	87231	40	105	17	1675	16
40	87232	47	105	20	1016	36
41	4918	42	109	18	1610	
GM		42.88	108.0	17.2	1629.7	
SE		2.11	1.7	2.2	270.4	
CV		6.95	2.2	18.5	23.5	

Appendix 7. Characteristics of entries in ICSN-DS at Akola 1987-88

Entry no	ICC./ICCL.No	Days to 50% flowering	Plant height (cm)	Days to maturity	100 seed mass (g)	Seed Yield kg/ha	Rank
1	87233	44	29	99	17	851	36
2	86221	48	33	98	18	926	31
3	86223	54	34	100	17	1063	26
4	86203	53	37	100	19	952	30
5	86229	55	39	98	13	1116	23
6	86205	43	32	92	21	901	33
7	86214	46	31	99	17	1033	28
8	86211	50	34	99	18	1317	9
9	87201	41	29	94	15	1383	7
10	87202	53	35	97	15	1386	6
11	87203	43	35	99	17	1193	16
12	87204	43	27	92	18	890	35
13	87205	43	37	96	17	1233	14
14	87206	42	39	94	22	844	37
15	87207	44	39	98	19	689	38
16	87208	53	36	99	18	962	29
17	87209	48	36	97	15	1294	11
18	87210	50	25	93	16	619	39
19	87211	44	29	98	19	1205	15
20	87212	43	36	95	18	613	40
21	87213	43	33	101	21	1053	27
22	87214	43	31	96	18	1183	17
23	87215	46	36	96	16	924	32
24	87216	48	35	98	19	1270	12
25	87217	51	38	101	18	1536	3
26	87218	50	32	97	14	1139	20
27	87219	45	32	95	18	898	34
28	87220	53	39	96	15	1883	1
29	87221	52	38	95	18	1097	24
30	87222	51	31	96	17	1297	10
31	87223	47	34	95	14	1371	8
32	87224	49	32	92	21	1074	25
33	87225	43	34	93	16	1656	2
34	87226	45	38	103	18	1128	22
35	87227	42	32	98	17	1133	21
36	87228	47	28	92	17	1467	5
37	87229	44	31	97	16	1489	4
38	87230	43	35	98	15	1166	18
39	87231	47	38	98	19	1162	19
40	87232	46	35	97	21	1250	13
41	4918	46	34	98	19	1276	
MEAN		46.70	33.9	96.8	17.4	1141.2	
SE		1.89	3.5	2.4	1.8	291.7	
CV		5.72	14.6	3.5	14.9	36.1	

Appendix 8. Characteristics of entries in ICSM-DS at
Rahuri - 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flo wering	Plant hei- ght (cm)	Days to matur ity	100 seed mass (g)	Seed Yield kg/ha	Rank
1	87233	45	26	96	20	1002	34
2	86221	49	27	102	19	1365	10
3	86223	49	26	101	20	1102	28
4	86203	53	27	103	20	1255	20
5	86229	53	29	100	15	1274	19
6	86205	49	27	97	22	1231	23
7	86214	49	25	101	17	1003	33
8	86211	49	28	96	19	1254	21
9	87201	46	29	97	17	1350	12
10	87202	53	28	102	13	1218	25
11	87203	45	27	97	18	1351	11
12	87204	53	25	97	20	1718	3
13	87205	45	29	96	18	1483	6
14	87206	45	30	99	22	1792	2
15	87207	49	33	102	28	1912	1
16	87208	49	31	101	21	1376	9
17	87209	45	26	101	15	1073	32
18	87210	46	24	99	20	940	38
19	87211	45	30	98	20	1321	16
20	87212	45	31	98	19	1195	26
21	87213	45	26	102	23	961	37
22	87214	48	27	100	21	1568	5
23	87215	46	30	101	22	1220	24
24	87216	45	27	99	20	1085	31
25	87217	46	30	99	22	1232	22
26	87218	53	25	100	14	1327	15
27	87219	48	25	97	23	1097	29
28	87220	46	27	99	16	1282	18
29	87221	51	30	98	17	1409	8
30	87222	46	23	96	17	854	40
31	87223	50	28	97	14	970	36
32	87224	51	28	101	23	1189	27
33	87225	45	25	99	15	856	39
34	87226	49	27	96	20	1087	30
35	87227	45	28	97	22	1573	4
36	87228	44	30	96	21	1307	17
37	87229	45	25	98	15	1001	35
38	87230	45	27	96	15	1348	13
39	87231	49	28	98	22	1341	14
40	87232	45	28	97	23	1422	7
41	4918	49	29	99	20	1272	
MEAN		47.64	27.7	98.7	19.1	1258.6	
SE		2.05	1.8	1.2	0.0	238.1	
CV		6.07	9.0	1.7	0.0	26.7	

Appendix 9. Characteristics entries in ICSM-DS at
Gurdaspur - 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flo wering	Plant hei- ght (cm)	Days to matur ity	100 seed mass (g)	Seed Yield kg/ha	Rank
1	87233	100	62	174	15	336	19
2	86221	100	58	168	18	633	6
3	86223	103	54	168	17	446	10
4	86203	101	59	168	19	346	17
5	86229	98	58	169	17	388	15
6	86205	100	52	171	18	179	28
7	86214	97	58	169	18	385	16
8	86211	99	56	171	14	129	31
9	87201	96	54	169	17	26	38
10	87202	100	41	169	16	683	5
11	87203	96	64	167	19	58	35
12	87204	105	50	170	18	183	27
13	87205	98	63	167	15	214	23
14	87206	100	70	168	20	847	3
15	87207	98	61	168	17	31	37
16	87208	100	52	172	17	1568	2
17	87209	97	53	170	16	287	20
18	87210	98	54	171	19	422	12
19	87211	101	56	168	20	496	9
20	87212	101	54	168	19	169	29
21	87213	99	50	168	15	235	21
22	87214	100	55	168	20	428	11
23	87215	97	56	170	20	87	33
24	87216	100	61	168	17	32	36
25	87217	102	73	169	16	204	24
26	87218	100	63	168	15	536	7
27	87219	100	52	169	18	385	16
28	87220	98	62	170	19	144	30
29	87221	103	61	169	19	68	34
30	87222	100	59	168	15	95	32
31	87223	98	63	169	17	701	4
32	87224	98	54	167	20	222	22
33	87225	98	60	171	16	200	25
34	87226	98	62	170	19	701	4
35	87227	100	71	170	19	526	8
36	87228	96	57	169	19	400	13
37	87229	97	51	169	20	398	14
38	87230	101	55	171	18	1679	1
39	87231	106	65	169	18	198	26
40	87232	100	62	171	21	341	18
41	4918	101	57	169	15	188	
MEAN		99.45	58.0	169.2	17.8	385.1	
SE		0.46	1.9	0.4	0.4	56.2	
CV		0.65	4.7	0.3	3.0	20.7	

Appendix 10. Characteristics of entries in ICSW-DS at Ludhiana-1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flo- wering	Plant hei- ght (cm)	Days to Matur- ity	Seed Yield kg/ha	Rank
1	87233	74	62	168	1618	30
2	86221	69	60	168	1787	17
3	86223	84	63	168	2101	3
4	86203	75	50	169	1755	20
5	86229	84	68	170	1348	37
6	86205	75	57	168	2093	4
7	86214	76	53	167	1765	19
8	86211	75	46	168	1781	18
9	87201	73	61	167	1851	12
10	87202	89	72	170	1696	25
11	87203	81	63	169	1483	33
12	87204	73	65	169	1667	26
13	87205	84	58	167	1835	14
14	87206	76	72	167	1825	15
15	87207	76	63	168	2063	6
16	87208	79	59	169	2299	2
17	87209	74	69	168	1976	7
18	87210	76	41	165	1426	36
19	87211	75	54	169	1619	29
20	87212	72	78	169	1932	9
21	87213	72	72	169	1723	21
22	87214	72	65	168	1974	8
23	87215	71	70	169	1151	38
24	87216	84	43	168	1443	35
25	87217	89	56	170	1132	39
26	87218	84	57	169	2068	5
27	87219	84	61	168	1816	16
28	87220	74	67	171	1841	13
29	87221	89	67	171	1870	10
30	87222	76	36	167	1493	32
31	87223	74	55	168	1079	40
32	87224	89	60	168	2605	1
33	87225	74	60	168	1699	23
34	87226	73	70	171	1644	28
35	87227	77	71	168	1863	11
36	87228	69	71	169	1558	31
37	87229	85	49	167	1659	27
38	87230	71	70	168	1709	22
39	87231	85	50	167	1452	34
40	87232	73	66	168	1696	24
41	4918	77	62	168	1510	
MEAN		77.62	60.7	168.4	1734.9	
SE		-	-	-	176.3	
CV		-	-	-	14.4	

Appendix 11 . Characteristics of
entries in ICSM-DS
at Navgon - 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flo wering	Seed Yield kg/ha	Rank
1	87233	53	1636	6
2	86221	66	1140	23
3	86223	55	1663	9
4	86203	58	995	31
5	86229	71	1088	25
6	86205	51	623	38
7	86214	58	1250	16
8	86211	56	1003	29
9	87201	55	1350	11
10	87202	65	1303	12
11	87203	60	1098	24
12	87204	53	2774	1
13	87205	54	1423	8
14	87206	60	1272	14
15	87207	63	1867	2
16	87208	53	1858	3
17	87209	55	1027	27
18	87210	52	1049	26
19	87211	51	703	37
20	87212	53	1289	13
21	87213	53	1352	10
22	87214	51	1404	9
23	87215	62	898	35
24	87216	55	1167	21
25	87217	64	1249	17
26	87218	57	1251	15
27	87219	56	1015	28
28	87220	54	1173	20
29	87221	60	1001	30
30	87222	53	1842	4
31	87223	53	1232	19
32	87224	65	958	32
33	87225	54	1233	18
34	87226	53	1449	7
35	87227	57	1251	15
36	87228	57	1251	15
37	87229	54	1153	22
38	87230	56	941	34
39	87231	58	868	36
40	87232	55	945	33
41	4918	55	1167	
MEAN		56.69	1251.2	
SE		3.66	383.1	
CV		9.13	43.3	

Appendix 12. Characteristics of entries in ICGM-DN at
Ethiopia - (1986-87) 1987-88

Entry no	ICCL.No	Days to 50% flowering (cm)	Plant height (cm)	Stand at harvest	Straw yield (t/ha)	Wilt yield (t/ha)	Insect damage (%)	Days to maturity	Seed yield (kg/ha)	Rank	
1	85332	50	32	3	56	14	16	103	17	1330	11
2	85309	58	34	3	24	19	1	113	25	1164	22
3	85316	55	35	2	40	10	1	113	15	1411	4
4	86301	53	29	3	28	10	3	109	21	1200	19
5	86302	51	32	3	43	17	2	108	18	1280	17
6	86303	43	32	3	51	13	1	100	18	882	32
7	86304	47	32	1	65	9	1	99	17	1089	24
8	86305	46	29	3	27	8	2	104	22	889	30
9	86306	42	29	3	46	7	15	100	18	1074	25
10	86307	44	29	2	22	6	3	100	16	1195	20
11	86308	46	30	1	46	7	2	99	17	1610	3
12	86309	48	33	2	50	11	22	103	17	1741	1
13	86310	51	32	3	39	6	2	111	17	1302	15
14	86311	55	33	3	30	17	23	116	20	848	35
15	86312	53	28	4	29	15	3	100	19	669	39
16	86313	48	42	3	37	14	2	112	28	1050	27
17	86314	49	33	3	36	16	23	105	19	1071	26
18	86315	54	32	3	35	17	2	106	20	1367	8
19	86315	54	30	3	28	17	3	108	20	727	37
20	86317	57	35	3	20	6	3	112	24	584	42
21	86318	54	38	3	25	6	2	107	25	1130	23
22	86319	55	32	3	33	12	16	109	21	633	40
23	86320	57	34	3	41	15	24	115	27	1393	5
24	86321	55	29	3	21	14	2	107	15	852	34
25	86322	54	34	3	43	6	2	109	19	997	28
26	86323	57	36	3	49	9	3	113	17	1341	10
27	86324	53	34	2	48	7	2	108	27	1267	18
28	86325	43	28	3	48	8	1	100	19	592	41
29	86326	45	32	3	49	21	16	107	16	971	29
30	86327	51	33	2	43	10	1	109	17	1321	13
31	86328	60	44	3	51	10	3	119	18	1289	16
32	86329	55	35	3	39	8	2	107	19	1346	9
33	86330	55	30	3	24	7	4	108	21	1372	7
34	86331	46	36	2	36	20	2	110	14	679	38
35	86332	55	31	4	18	9	3	110	14	564	43
36	86333	48	29	3	28	15	18	100	15	1173	21
37	86334	47	31	3	37	11	2	100	17	1664	2
38	86335	59	31	3	42	9	3	116	22	1320	14
39	86336	49	35	3	45	16	1	120	15	1381	6
40	86337	55	33	2	28	16	23	107	15	792	36
41	5003	57	30	2	37	15	6	112	30	886	31
42	11525	58	34	3	31	18	6	119	15	870	33
43	K 050	52	32	3	46	9	7	105	26	1321	12

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SE 1.4 2.0 0.5 7.2 4.2 8.6 7.8 2.0 209.4
 MEAN 51.5 32.7 2.6 37.5 12.0 30.6 6.4 108 1107.7
 CV 4.0 0.6 29.4 27.2 49.1 39.7 171.9 3 26.7

Appendix 13 . Characteristics of entries in ICSN-DM at
Parvanipur Nepal - 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flo- wering	Plant hei- ght (cm)	Days to matur- ity	100 seed mass (g)	Seed Yield	
						kg/ha	Rank
1	86327	84	61	144	15	4335	6
2	86315	86	59	145	19	3360	24
3	86303	83	58	144	15	2408	38
4	87301	79	74	145	21	4137	8
5	87302	76	63	144	16	3498	20
6	87303	76	63	144	16	3498	20
7	87304	75	66	144	16	2765	31
8	87305	83	64	143	24	3356	25
9	87306	71	52	144	15	2701	32
10	87307	79	61	142	20	2424	36
11	87308	77	63	145	21	3701	14
12	87309	76	67	144	21	3506	19
13	87310	73	57	142	14	2878	30
14	87311	81	61	145	11	3454	21
15	87312	80	66	145	16	4261	7
16	87313	85	66	145	24	2606	33
17	87314	86	62	143	15	3642	16
18	87315	83	57	146	16	3571	18
19	87316	85	63	147	16	3176	27
20	87317	85	68	145	15	3370	23
21	87318	69	66	144	18	2572	34
22	87319	72	62	143	30	2411	37
23	87320	71	66	141	14	4427	5
24	87321	72	77	143	15	4726	3
25	87322	77	72	142	15	3322	26
26	87323	75	56	143	17	3043	29
27	87324	73	56	142	11	3619	17
28	87325	71	68	142	10	3788	12
29	87326	71	64	142	14	4762	2
30	87327	73	64	144	12	2388	39
31	87328	73	62	144	13	3834	11
32	87329	73	62	145	10	5206	1
33	87330	74	61	143	11	4028	10
34	87331	73	58	142	11	4526	4
35	87332	73	61	144	12	3653	15
36	87333	75	64	142	12	4083	9
37	87334	69	62	141	12	2504	35
38	87335	71	58	144	13	3165	28
39	87336	74	71	142	12	3780	13
40	87337	76	66	145	12	3432	22
41	5003	86	58	145	25	3570	
MEAN		76.42	62.9	143.6	15.5	3497.9	
SE		1.44	4.5	0.9	1.2	507.7	
CV		2.67	10.2	0.9	10.6	20.5	

Appendix 14. Characteristics of entries in IC5N-DM at
Patacheru - 1987-88

Entry no	ICC./ ICCL.No	Days to 50% flo- wering	Plant hei- ght (cm)	Days to matur- ity	100 seed mass (g)	Seed Yield	
						kg/ha	Rank
1	86327	57	35	105	17	1527	19
2	86315	58	34	107	22	1325	33
3	86303	55	32	102	19	1762	5
4	87301	55	39	104	27	1922	3
5	87302	58	36	109	22	1671	9
6	87303	54	35	102	29	1848	4
7	87304	56	29	103	19	2082	2
8	87305	56	34	104	27	1536	18
9	87306	56	32	101	18	1560	16
10	87307	56	31	104	24	1158	37
11	87308	58	39	107	29	1357	32
12	87309	59	37	107	29	1556	17
13	87310	55	34	103	16	1692	8
14	87311	59	36	113	18	1463	24
15	87312	58	32	105	17	1574	14
16	87313	59	36	106	31	1666	10
17	87314	56	33	102	19	1315	35
18	87315	56	33	104	19	2198	1
19	87316	59	32	104	20	1468	23
20	87317	58	32	105	19	1438	29
21	87318	55	31	103	20	1478	22
22	87319	55	35	106	33	1655	11
23	87320	55	34	103	15	1478	21
24	87321	55	47	117	20	912	40
25	87322	54	48	113	21	1043	39
26	87323	57	38	104	21	1620	12
27	87324	54	28	103	15	1598	13
28	87325	56	37	102	14	1450	27
29	87326	52	34	101	18	1747	6
30	87327	55	36	113	16	1317	34
31	87328	56	32	106	15	1453	26
32	87329	55	33	103	13	1571	15
33	87330	57	33	105	14	1460	25
34	87331	56	31	105	14	1439	28
35	87332	55	33	103	14	1739	7
36	87333	54	38	104	16	1488	20
37	87334	58	38	114	16	1391	31
38	87335	56	32	106	13	1182	36
39	87336	56	44	114	16	1395	30
40	87337	57	29	104	15	1133	38
41	5003	62	36	113	31	1461	
MEAN		56.11	34.7	105.7	19.5	1516.6	
SE		0.95	2.1	1.8	0.6	209.8	
CV		2.38	8.6	2.4	4.0	19.6	

Appendix 15. Characteristics of entries in ICW-DN at Delhi - 1967-68

Entry no	ICC./ ICCL.No.	Days to 50% flo- wering	Plant height (cm)	Days to matur- ity	100 seed mass (g)	Seed Yield kg/ha	Rank
1	86327	80	53	137	15	1273	26
2	86315	82	53	139	20	1224	30
3	86303	82	55	136	16	1293	24
4	87301	84	57	142	26	1393	21
5	87302	78	45	143	17	1557	15
6	87303	80	57	138	24	1486	18
7	87304	89	49	139	15	1500	12
8	87305	80	47	137	22	1754	6
9	87306	88	53	140	17	1249	27
10	87307	84	44	136	17	1243	29
11	87308	80	53	134	25	1567	13
12	87309	80	56	138	26	1589	10
13	87310	89	43	141	13	1467	20
14	87311	87	50	145	15	881	40
15	87312	78	44	137	18	1308	23
16	87313	82	52	139	25	1247	28
17	87314	81	48	138	16	1195	34
18	87315	82	51	140	18	1198	33
19	87316	81	48	141	17	1221	31
20	87317	86	40	139	16	1277	25
21	87318	80	47	138	20	984	38
22	87319	77	55	144	28	1096	36
23	87320	79	46	134	12	1477	19
24	87321	80	66	142	14	954	39
25	87322	79	58	141	16	1544	16
26	87323	80	59	135	20	1732	7
27	87324	86	50	138	13	1827	2
28	87325	79	49	138	13	1318	22
29	87326	79	49	145	15	1490	17
30	87327	79	53	139	15	1587	11
31	87328	78	46	134	12	1208	32
32	87329	80	51	135	13	1846	1
33	87330	78	44	136	10	1764	4
34	87331	78	44	134	11	1758	5
35	87332	78	50	142	13	1563	14
36	87333	82	58	134	14	1621	9
37	87334	80	49	140	11	1769	3
38	87335	82	51	143	13	1115	35
39	87336	78	59	139	25	1621	8
40	87337	81	49	134	12	1049	37
41	5003	83	50	142	24	1219	
MEAN		81.15	50.8	138.6	17.0	1408.1	
SE		-	3.5	-	0.7	157.3	
CV		-	9.7	-	5.6	15.8	

Appendix 16. Characteristics of entries in ICGM-DH at
Dahod - 1987-88

Entry no	ICCL.No	Days to 50% flowering	Plant height	Days to maturity	100 seed mass	Seed yield kg/ha	Rank
1	06327	66	37	118	18	1904	16
2	06315	64	36	115	20	1213	35
3	06303	62	41	116	15	1728	24
4	07301	61	34	115	30	2264	5
5	07302	65	39	117	28	1072	38
6	07303	64	38	116	26	1365	31
7	07304	62	29	115	27	1993	13
8	07305	57	38	110	29	1806	21
9	07306	67	38	119	20	1359	32
10	07307	58	45	112	27	2735	1
11	07308	63	41	116	28	1873	17
12	07309	60	43	113	28	1715	25
13	07310	65	38	115	20	2286	4
14	07311	61	32	115	19	952	40
15	07312	65	38	117	18	2120	10
16	07313	66	36	117	29	1429	30
17	07314	65	37	116	17	2203	8
18	07315	65	38	117	17	1810	20
19	07316	62	38	112	20	1967	14
20	07317	64	34	117	27	1692	26
21	07318	62	38	116	27	1844	19
22	07319	67	34	119	30	1106	37
23	07320	61	43	112	16	1334	33
24	07321	64	46	116	16	1132	36
25	07322	65	46	117	19	1033	39
26	07323	60	42	112	17	1549	28
27	07324	59	42	111	14	1774	23
28	07325	60	43	113	20	2204	7
29	07326	62	40	113	17	1846	18
30	07327	57	40	110	14	2415	2
31	07328	64	38	116	15	1607	27
32	07329	64	34	115	16	2084	11
33	07330	63	38	115	17	2371	3
34	07331	58	41	113	15	2263	6
35	07332	59	36	112	30	1451	29
36	07333	66	33	118	13	1309	34
37	07334	61	39	113	16	1963	15
38	07335	61	37	112	18	2144	9
39	07336	65	48	118	20	1786	22
40	07337	62	38	115	14	2083	12
41	5003	64	41	115	29	1452	12
MEAN		62.51	38.7	114.8	20.7	1769.6	
SE		1.51	0.9	1.8	0.8	173.9	
CV		3.42	3.4	2.2	5.3	13.9	

Appendix 17. Characteristics of entries in ICSN-DM at
Junagadh - 1987-88

Entry no	ICC./ ICCL.No	Days to 50% flo- wering	Plant hei- ght (cm)	Days to matur- ity	100 seed mass (g)	Seed Yield kg/ha	Rank
1	86327	57	28	101	20	911	12
2	86315	53	27	94	20	611	37
3	86303	56	27	97	17	816	23
4	87301	55	30	97	23	954	7
5	87302	56	30	92	19	777	28
6	87303	53	30	93	29	950	8
7	87304	51	25	94	18	666	36
8	87305	52	29	93	21	927	11
9	87306	52	28	93	17	833	19
10	87307	48	28	89	19	856	16
11	87308	52	28	91	23	830	20
12	87309	54	26	98	26	992	4
13	87310	52	29	94	22	898	14
14	87311	56	29	99	17	725	31
15	87312	57	27	104	29	886	15
16	87313	50	31	90	20	698	33
17	87314	49	34	93	16	689	35
18	87315	53	29	92	16	577	40
19	87316	56	27	99	18	1061	3
20	87317	55	30	97	21	775	29
21	87318	51	29	90	29	838	17
22	87319	48	29	90	25	785	27
23	87320	48	26	91	17	798	24
24	87321	52	34	99	16	599	39
25	87322	48	34	88	18	948	9
26	87323	57	28	99	18	718	32
27	87324	53	27	95	16	1220	1
28	87325	49	31	90	22	970	6
29	87326	51	30	93	15	1110	2
30	87327	50	30	96	17	906	13
31	87328	48	30	93	18	788	25
32	87329	52	29	95	24	828	21
33	87330	47	29	88	19	691	34
34	87331	51	27	94	18	990	5
35	87332	55	31	94	26	837	18
36	87333	52	30	93	15	599	38
37	87334	48	30	93	13	928	10
38	87335	55	32	99	15	824	22
39	87336	53	25	94	20	786	26
40	87337	56	24	98	19	762	30
41	5003	56	26	98	26	590	
MEAN		52.28	28.9	94.3	19.8	834.0	
SE		3.13	2.4	3.9	4.3	132.6	
CV		8.47	11.9	5.8	30.8	22.5	

Appendix 18. Characteristics of entries in ICEN-DM at
Gallor - 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flo oring	Plant hei- ght (cm)	Days to matur ity	100 seed mass (g)	Seed Yield kg/ha	Rank
1	86327	65	59	139	13	1973	28
2	86315	81	64	139	18	2208	19
3	86303	68	60	142	14	1638	31
4	87301	59	76	141	19	1825	30
5	87302	62	58	133	15	2559	7
6	87303	67	65	144	23	2552	8
7	87304	53	62	140	16	1995	27
8	87305	66	60	142	19	2110	24
9	87306	57	57	137	15	1351	37
10	87307	65	61	135	17	1964	29
11	87308	64	45	138	25	2473	11
12	87309	66	59	139	24	2119	22
13	87310	70	67	135	12	2482	10
14	87311	63	58	139	12	2204	21
15	87312	80	74	144	15	1421	33
16	87313	70	48	136	24	1997	26
17	87314	71	49	137	16	1414	34
18	87315	76	59	141	15	1392	35
19	87316	81	64	142	14	1250	39
20	87317	77	70	142	15	1132	40
21	87318	45	66	139	16	1579	32
22	87319	60	61	139	21	1367	36
23	87320	58	64	137	11	2577	6
24	87321	56	70	136	14	1326	38
25	87322	64	84	133	15	2723	3
26	87323	66	59	134	16	2307	16
27	87324	60	53	132	13	2361	15
28	87325	66	70	140	11	2666	4
29	87326	59	62	139	11	2417	13
30	87327	54	58	135	12	2381	14
31	87328	61	56	138	10	2418	12
32	87329	56	49	135	12	2019	25
33	87330	57	63	138	9	2623	5
34	87331	55	61	133	10	2548	9
35	87332	67	68	141	13	2119	23
36	87333	55	62	138	13	2205	20
37	87334	62	77	141	12	2758	2
38	87335	59	57	133	10	2300	18
39	87336	59	72	132	13	2780	1
40	87337	69	65	136	11	2307	17
41	5003	73	60	140	22	2185	
MEAN		63.71	62.4	137.9	14.8	2095.9	
SE		3.27	6.0	2.7	1.2	270.5	
CV		7.25	13.7	2.7	11.6	18.3	

Appendix 19. Characteristics of entries in
ICSN- DM at Faridkot - 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flo wering	Days to Matur ity	Sees Yield kg/ha	Rank
1	86327	89	122	1229	16
2	86315	93	120	1101	31
3	86303	93	123	1105	30
4	87301	88	122	876	39
5	87302	87	121	1501	3
6	87303	83	123	1624	1
7	87304	95	121	1289	12
8	87305	83	122	1440	4
9	87306	92	122	1415	6
10	87307	83	122	1166	24
11	87308	87	124	1274	13
12	87309	82	122	1392	7
13	87310	93	121	1188	21
14	87311	90	126	1292	11
15	87312	83	123	1187	22
16	87313	88	123	1206	20
17	87314	92	122	1140	25
18	87315	88	120	1269	14
19	87316	90	123	540	40
20	87317	88	123	1001	36
21	87318	88	123	1224	17
22	87319	93	122	1336	8
23	87320	88	122	1128	26
24	87321	88	121	1208	19
25	87322	88	125	1230	15
26	87323	83	125	1106	28
27	87324	88	121	1293	10
28	87325	89	123	957	38
29	87326	83	121	1438	5
30	87327	94	122	1120	27
31	87328	88	125	1168	23
32	87329	87	122	1208	18
33	87330	84	121	1019	35
34	87331	84	125	1064	32
35	87332	92	121	1042	34
36	87333	88	122	1106	29
37	87334	88	120	1311	9
38	87335	94	124	961	37
39	87336	90	123	1544	2
40	87337	95	129	1045	33
41	5003	90	123	1554	
GM		88.52	122.6	1193.6	
SE		3.76	1.9	140.7	
CV		6.00	2.2	16.7	

Appendix 20. Characteristics of entries in
ICSN-DM at Novgon - 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flo wering	Seed Yield kg/ha	Rank
1	86327	78	2142	1
2	86315	76	1408	17
3	86303	73	923	33
4	87301	73	1368	23
5	87302	76	2067	2
6	87303	68	1618	9
7	87304	68	1805	7
8	87305	76	673	37
9	87306	54	1287	26
10	87307	75	1266	27
11	87308	73	1400	19
12	87309	80	2058	3
13	87310	74	1406	18
14	87311	75	1000	32
15	87312	77	1553	13
16	87313	73	1378	22
17	87314	81	1288	25
18	87315	85	1989	5
19	87316	85	491	38
20	87317	80	1786	8
21	87318	60	684	36
22	87319	72	1397	20
23	87320	69	1260	28
24	87321	73	1378	22
25	87322	75	1192	30
26	87323	78	1542	14
27	87324	71	1245	29
28	87325	71	769	35
29	87326	73	1444	16
30	87327	54	1952	6
31	87328	76	2042	4
32	87329	72	1559	12
33	87330	74	1542	15
34	87331	75	1572	11
35	87332	73	1604	10
36	87333	71	916	34
37	87334	70	1332	24
38	87335	72	1081	31
39	87336	70	1391	21
40	87337	71	309	39
41	5003	79	1630	
MEAN		73.00	1377.9	
SE		2.82	403.0	
CV		5.46	41.4	

Appendix 21. Characteristics of entries in ICSN-DL at
Dokri - 1987-88

Entry no	ICC./ ICCL.No	Days to 50% flo- wering	Plant hei- ght (cm)	Days to matur- ity	100 seed mass (g)	Seed kg/ha	Yield Rank
1	87401	75	40	138	17	830	18
2	87402	74	52	138	17	572	30
3	87403	77	36	138	18	865	17
4	87404	75	30	135	15	1397	1
5	87405	80	45	142	17	1102	7
6	87406	77	31	137	17	997	13
7	87407	76	37	134	20	1294	2
8	87408	74	41	138	18	868	16
9	87409	75	40	138	17	838	18
10	87410	77	38	139	16	401	35
11	87411	76	35	139	16	565	33
12	87412	78	38	139	14	1044	9
13	87413	77	45	138	17	565	32
14	87414	72	47	137	18	761	24
15	87415	75	40	138	17	838	18
16	87416	75	36	139	19	1018	11
17	87417	74	34	135	18	1000	12
18	87418	75	40	135	26	567	31
19	87419	73	38	139	16	674	25
20	87420	74	41	136	19	672	26
21	87421	74	37	138	16	665	27
22	87422	76	35	141	14	777	21
23	87423	75	40	138	17	838	18
24	87424	76	49	140	20	648	28
25	87425	74	36	135	18	797	20
26	87426	75	57	136	18	901	15
27	87427	74	47	135	18	1219	5
28	87428	77	40	140	16	917	14
29	87429	76	41	135	16	579	29
30	87430	73	41	136	14	333	37
31	87431	74	40	140	14	348	36
32	87432	73	42	139	15	763	23
33	87433	74	44	141	20	1089	8
34	87434	73	29	140	17	1287	3
35	87435	75	48	138	19	823	19
36	87436	75	36	141	16	763	22
37	87437	77	32	138	15	1221	4
38	87438	75	38	136	13	1036	10
39	87439	75	49	139	20	1198	6
40	87440	75	40	138	19	432	34
41	4948	75	42	139	18	742	
MEAN		75.15	40.1	137.9	17.2	837.7	
SE		1.35	5.3	1.5	1.8	328.8	
CV		2.54	18.7	1.5	14.9	55.5	

Appendix 22. Characteristics of entries in
ICSN-DL at Sabour - 1987-88

Entry no	ICC./ ICCL.No	Days to 50% flo wering	Days to matur ity	Seed Yield kg/ha	Rank
1	87401	86	130	2433	1
2	87402	92	133	1574	28
3	87403	89	126	2162	6
4	87404	90	134	1582	27
5	87405	88	134	1868	15
6	87406	92	130	1639	22
7	87407	88	130	1648	21
8	87408	87	128	2305	4
9	87409	89	129	1603	24
10	87410	91	129	2211	5
11	87411	90	133	1486	32
12	87412	92	132	1584	25
13	87413	89	134	1481	33
14	87414	89	132	2313	3
15	87415	91	127	1975	13
16	87416	91	126	1298	38
17	87417	87	136	1350	37
18	87418	90	131	1536	29
19	87419	92	136	1533	30
20	87420	86	127	2388	2
21	87421	90	136	1226	39
22	87422	90	130	1437	34
23	87423	88	131	1756	16
24	87424	92	127	1666	19
25	87425	90	125	1584	26
26	87426	86	132	1664	20
27	87427	85	125	1881	14
28	87428	92	132	1377	35
29	87429	88	129	1990	11
30	87430	93	130	1980	12
31	87431	90	125	2014	10
32	87432	89	127	1491	31
33	87433	86	127	1618	23
34	87434	95	130	931	40
35	87435	91	128	2028	9
36	87436	85	134	2078	8
37	87437	90	130	1694	18
38	87438	87	129	2094	7
39	87439	87	128	1364	36
40	87440	86	128	1696	17
41	4948	89.00	131.6	1654.8	
MEAN		89.19	130.0	1738.5	
SE		2.55	3.0	326.1	
CV		4.04	3.2	26.5	

Appendix 23. Characteristics of entries in ICSN-DL at
Delhi - 1987-88

Entry no	ICC./ ICCL.No	Days to 50% flo- wering	Plant hei- ght (cm)	Days to matur- ity	100 seed mass (g)	Seed Yield kg/ha	Rank
1	87401	82	46	137	11	1491	15
2	87402	79	46	134	13	1678	2
3	87403	79	47	134	12	1725	1
4	87404	79	55	135	11	1501	14
5	87405	80	53	140	15	997	35
6	87406	80	51	136	13	1584	7
7	87407	82	47	135	11	1677	3
8	87408	81	70	138	18	1653	5
9	87409	81	50	136	12	1079	33
10	87410	80	47	135	11	1549	9
11	87411	79	68	142	16	1525	11
12	87412	81	48	135	12	1555	8
13	87413	81	50	135	11	1532	10
14	87414	80	67	134	16	1384	19
15	87415	79	56	141	12	1238	26
16	87416	80	46	135	13	1178	29
17	87417	80	49	136	13	1399	18
18	87418	80	50	139	14	1335	20
19	87419	81	47	140	16	1592	6
20	87420	82	51	135	12	1060	34
21	87421	81	54	138	19	1228	28
22	87422	82	48	139	24	741	40
23	87423	81	48	137	13	1511	12
24	87424	79	45	137	14	1480	16
25	87425	81	45	139	13	1246	25
26	87426	80	47	136	15	1319	22
27	87427	82	51	139	11	1439	17
28	87428	86	43	137	12	1112	32
29	87429	83	45	138	13	1133	30
30	87430	81	49	138	12	955	36
31	87431	81	53	137	10	1666	4
32	87432	82	48	140	12	1250	24
33	87433	81	52	140	13	1234	27
34	87434	82	51	139	13	1504	13
35	87435	82	50	139	13	1118	31
36	87436	83	64	138	15	876	39
37	87437	81	41	145	15	927	38
38	87438	80	51	140	13	1330	21
39	87439	79	49	140	17	931	37
40	87440	85	62	142	18	1315	23
41	4948	82	50	138	13	1145	
MEAN		80.95	51.0	137.8	13.7	1326.1	
SE		1.18	3.4	2.3	0.5	138.8	
CV		2.06	9.5	2.3	5.2	14.8	

Appendix 24. Characteristics of entries in ICSM-DL at
Misar - 1987-88

Entry no	ICC./ ICCL.No	Days to 50% flor wering	Plant height (cm)	Days to matur ity	100 seed mass (g)	Seed yield kg/ha	Rank
1	87401	77	31	143	16	1249	37
2	87402	77	33	145	16	1593	8
3	87403	75	30	141	17	1332	32
4	87404	78	33	143	15	1673	5
5	87405	72	32	144	18	1750	3
6	87406	76	40	142	15	1562	11
7	87407	74	34	147	15	1278	35
8	87408	78	46	146	22	1677	4
9	87409	81	32	146	15	1615	6
10	87410	70	36	144	13	1351	30
11	87411	64	47	145	18	1250	36
12	87412	78	35	141	17	1536	15
13	87413	79	42	144	14	1988	1
14	87414	78	49	145	17	1530	17
15	87415	77	44	141	16	1929	2
16	87416	76	35	144	22	1391	27
17	87417	78	36	144	18	1439	23
18	87418	73	34	141	19	1551	13
19	87419	80	41	146	21	1607	7
20	87420	79	34	142	16	1342	31
21	87421	74	36	145	25	1531	16
22	87422	77	50	145	31	1506	18
23	87423	77	35	147	17	1173	38
24	87424	80	36	144	17	1314	34
25	87425	73	30	146	17	1394	26
26	87426	76	31	145	20	1502	19
27	87427	76	39	146	15	1476	20
28	87428	85	42	145	15	1575	10
29	87429	79	39	141	15	1538	14
30	87430	81	34	146	15	1325	33
31	87431	81	32	144	14	1424	25
32	87432	81	37	145	16	1449	21
33	87433	77	36	143	16	1560	12
34	87434	81	34	144	16	1370	29
35	87435	84	39	147	14	1592	9
36	87436	90	47	150	17	1118	39
37	87437	73	36	147	20	1426	24
38	87438	75	36	141	18	1439	22
39	87439	71	32	145	21	1040	40
40	87440	80	41	147	21	1376	40
41	4948	81	38	146	15	1556	28
GM		77.89	37.2	144.4	17.5	1469.3	
SE		1.40	4.4	1.6	1.3	191.7	
CV		2.55	16.6	1.6	10.4	18.4	

Appendix 25. Characteristics of entries in ICSN-DL at
Owalior - 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flo- wering	Plant hei- ght (cm)	Days to matur- ity	100 seed mass (g)	Seed kg/ha	Yield Rank
1	87401	71	47	133	11	2461	12
2	87402	62	61	136	11	2086	33
3	87403	61	55	129	11	2333	19
4	87404	75	60	135	10	2071	34
5	87405	68	50	134	12	2755	3
6	87406	62	50	132	11	2150	28
7	87407	69	50	128	11	2814	2
8	87408	67	71	130	16	2280	22
9	87409	78	52	135	10	2715	4
10	87410	70	59	133	10	2445	13
11	87411	80	62	135	12	2122	31
12	87412	73	67	135	10	2034	36
13	87413	76	57	136	9	2014	38
14	87414	62	74	134	14	2415	16
15	87415	74	65	138	11	2423	15
16	87416	68	62	132	10	2396	17
17	87417	72	53	136	11	2437	14
18	87418	61	66	134	12	2651	6
19	87419	77	58	133	15	2168	27
20	87420	73	62	137	9	2320	21
21	87421	73	64	133	15	2472	11
22	87422	73	65	136	19	2967	1
23	87423	66	48	129	12	2275	23
24	87424	73	53	140	11	2120	32
25	87425	58	43	140	12	2143	30
26	87426	70	56	137	13	2394	18
27	87427	70	62	138	10	2609	7
28	87428	86	63	138	10	2514	9
29	87429	75	55	133	10	2204	26
30	87430	81	62	137	10	2060	35
31	87431	68	52	133	10	2219	25
32	87432	74	57	138	10	1885	39
33	87433	73	57	134	10	2543	8
34	87434	76	52	134	11	2149	29
35	87435	80	55	135	10	2020	37
36	87436	84	83	138	14	1856	40
37	87437	63	58	139	13	2658	5
38	87438	63	65	137	12	2491	10
39	87439	74	49	138	13	2332	20
40	87440	70	61	140	16	2246	24
41	4948	80	56	138	11	2094	
MEAN		71.25	58.6	135.1	11.7	2331.2	
SE		3.19	6.3	2.8	0.6	181.3	
CV		6.33	15.3	3.0	7.4	11.0	

Appendix 26. Characteristics of entries in
ICSN-DL at Paridkot - 1987-88

Entry no	ICC./ ICCL.No	Days to 50% flo wering	Days to matur ity	Seed Yield kg/ha	Rank
1	87401	92	127	1121	25
2	87402	94	125	1462	3
3	87403	88	128	1229	19
4	87404	93	120	1055	29
5	87405	93	119	1578	1
6	87406	93	121	1163	23
7	87407	93	123	1234	17
8	87408	93	121	961	34
9	87409	83	122	1241	16
10	87410	94	122	828	39
11	87411	93	121	1121	26
12	87412	93	122	867	38
13	87413	88	125	1439	5
14	87414	83	123	1212	21
15	87415	88	122	1299	14
16	87416	89	127	1306	13
17	87417	95	127	1132	24
18	87418	93	127	1416	8
19	87419	95	128	1406	9
20	87420	92	119	1232	18
21	87421	93	125	957	35
22	87422	93	119	783	40
23	87423	95	124	935	36
24	87424	93	121	1201	22
25	87425	95	127	1104	27
26	87426	88	123	1042	31
27	87427	83	125	924	37
28	87428	93	126	1404	11
29	87429	93	119	1405	10
30	87430	93	119	1220	20
31	87431	88	125	1049	30
32	87432	93	123	1001	32
33	87433	93	120	1427	6
34	87434	93	122	1104	28
35	87435	93	122	1293	15
36	87436	93	124	1458	4
37	87437	83	126	1424	7
38	87438	88	121	1342	12
39	87439	88	124	972	33
40	87440	91	123	1466	2
41	4948	92	123	1125	
MEAN		91.22	122.9	1195.3	
SE		2.23	1.7	252.4	
CV		3.45	2.0	29.9	

Appendix 27. Characteristics of entries in ICGM-DL at
Oerdasapur - 1987-88

Entry no	ICCL.No	Days to 50% flo wering	Plant height (cm)	Days to matur ity	100 seed mass (g)	Seed kg/ha	Yield Rank
1	87401	109	62	175	10	364	24
2	87402	106	52	169	11	623	10
3	87403	105	63	169	10	365	23
4	87404	104	55	162	11	519	18
5	87405	106	66	164	14	780	4
6	87406	109	54	174	11	259	29
7	87407	104	50	163	10	75	40
8	87408	106	85	167	15	111	38
9	87409	108	46	165	11	423	20
10	87410	104	53	163	14	580	11
11	87411	108	80	166	20	525	16
12	87412	111	65	168	12	726	7
13	87413	107	72	165	10	416	22
14	87414	104	78	167	12	314	26
15	87415	104	66	162	11	151	36
16	87416	106	54	172	10	989	2
17	87417	109	53	166	10	313	27
18	87418	106	66	164	14	419	21
19	87419	109	55	167	16	77	39
20	87420	107	58	166	12	571	14
21	87421	108	64	173	13	210	30
22	87422	107	63	172	24	209	32
23	87423	108	62	171	14	182	33
24	87424	106	56	168	14	731	5
25	87425	105	53	164	12	176	35
26	87426	107	49	165	13	520	17
27	87427	107	55	168	11	315	25
28	87428	113	62	172	12	468	19
29	87429	106	58	164	13	576	12
30	87430	111	53	176	11	728	6
31	87431	104	54	167	11	988	3
32	87432	107	57	173	11	681	8
33	87433	108	61	165	11	568	15
34	87434	104	54	163	13	1043	1
35	87435	112	62	174	12	573	13
36	87436	113	65	170	13	126	37
37	87437	108	61	164	14	178	34
38	87438	106	66	164	13	674	9
39	87439	102	64	162	14	209	31
40	87440	108	66	173	17	312	31
41	4948	113	56	171	10	573	28
MEAN		107.09	60.5	167.6	12.7	451.7	
SE		0.21	0.7	0.2	0.1	71.9	
CV		0.28	1.6	0.2	0.8	22.5	

Appendix 28. Characteristics of entries in ICSN-DL at
Ludhiana - 1987-88

Entry no	ICC./ ICCL.No	Days to 50% flo- wering	Plant hei- ght (cm)	days to matur- ity	Seed kg/ha	Yield Rank
1	87401	94	37	168	1720	36
2	87402	92	66	166	2966	1
3	87403	92	53	165	2081	26
4	87404	90	72	165	2813	4
5	87405	93	58	166	2395	14
6	87406	96	60	168	2594	8
7	87407	93	53	167	2861	3
8	87408	95	65	167	2245	20
9	87409	92	56	165	2089	24
10	87410	92	63	164	2445	12
11	87411	100	58	167	1561	38
12	87412	96	62	167	2496	10
13	87413	97	52	169	2051	27
14	87414	98	55	164	1509	40
15	87415	94	58	167	2247	19
16	87416	95	48	168	2033	28
17	87417	94	52	168	1937	31
18	87418	98	69	166	2654	7
19	87419	95	69	167	2031	29
20	87420	88	53	166	2201	22
21	87421	97	54	168	2493	11
22	87422	95	51	166	1881	34
23	87423	92	56	168	2705	6
24	87424	90	56	166	2292	18
25	87425	91	53	165	1928	33
26	87426	89	60	167	2188	23
27	87427	90	71	167	1768	35
28	87428	100	57	169	2862	2
29	87429	93	58	165	1930	32
30	87430	92	65	165	2395	15
31	87431	97	59	166	2083	25
32	87432	93	57	168	2398	13
33	87433	89	55	168	2501	9
34	87434	99	58	169	2390	16
35	87435	95	62	167	2387	17
36	87436	99	67	167	1623	37
37	87437	90	61	169	1976	30
38	87438	92	59	167	2761	5
39	87439	88	63	170	1559	39
40	87440	97	44	168	2244	21
41	4948	96	58	167	2438	
MEAN		93.86	58.1	166.9	2232.2	
SE		2.39	6.6	-	253.4	
CV		3.61	16.1	-	16.1	

Appendix 29. Characteristics of entries in ICSN-DL at Sriganganajar - 1987-88

Entry no	ICC./ ICCL.No	Days to 50% flo wering	Plant hei- ght (cm)	Days to matur ity	100 seed mass (g)	Seed kg/ha	Yield Rank
1	87401	87	63	163	13	3849	14
2	87402	88	66	162	13	4918	2
3	87403	87	64	164	14	4176	6
4	87404	86	63	162	18	3729	18
5	87405	88	66	163	15	4017	11
6	87406	88	66	164	17	3209	30
7	87407	87	66	164	19	4078	8
8	87408	88	65	163	19	4434	3
9	87409	87	61	162	13	5035	1
10	87410	88	70	163	10	3214	29
11	87411	88	67	164	14	3513	22
12	87412	89	65	165	17	2775	37
13	87413	90	63	163	14	3548	20
14	87414	88	62	162	12	4124	7
15	87415	90	65	162	15	2340	39
16	87416	87	66	163	12	3630	19
17	87417	86	63	161	15	4229	5
18	87418	86	64	163	13	4051	10
19	87419	88	68	162	16	3316	28
20	87420	90	68	161	19	3133	33
21	87421	93	66	163	13	3146	32
22	87422	90	69	163	27	2695	38
23	87423	87	67	162	19	3539	21
24	87424	91	62	163	13	3024	34
25	87425	88	66	162	18	3943	12
26	87426	87	66	163	16	4056	9
27	87427	87	67	163	12	3406	26
28	87428	90	64	165	20	3891	13
29	87429	88	63	163	10	2921	35
30	87430	88	66	162	18	3477	24
31	87431	88	64	163	11	3820	16
32	87432	89	68	162	15	2284	40
33	87433	86	67	162	12	3465	25
34	87434	87	64	162	12	3842	15
35	87435	89	68	166	13	4331	4
36	87436	90	65	163	12	2836	36
37	87437	88	63	163	12	3208	31
38	87438	87	64	164	13	3494	23
39	87439	87	65	162	17	3382	27
40	87440	88	66	163	20	3757	17
41	4948	89	66	162	13	3104	
MEAN		88.15	65.3	162.8	15.0	3595.9	
SE		1.55	2.8	0.9	-	467.4	
CV		2.48	6.0	0.8	-	18.4	

Appendix 30. Characteristics of entries in ICCT-DS at
Dokri- 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flowering	Plant height (cm)	Days to maturity	100 seed mass (g)	Seed yield kg/ha	Rank
1	4918	67	50	123	15	998	4
2	5003	71	44	125	16	764	11
3	11141	66	43	125	13	885	6
4	84204	68	39	125	14	851	8
5	85211	66	51	124	14	755	13
6	84215	70	39	122	15	1120	1
7	83149	69	44	123	14	1102	2
8	83227	67	46	125	13	721	15
9	86224	69	45	123	13	773	10
10	86226	70	40	123	13	842	9
11	83128	68	48	124	15	1085	3
12	84239	70	48	124	14	668	16
13	86206	66	46	124	13	938	5
14	86227	69	50	123	14	764	12
15	86209	67	45	125	16	747	14
16	Lo.ch	73	45	126	12	868	7
	SE	0.6	1.6	0.7	0.4	156.1	
	MEAN	68.3	44.9	123.9	13.7	867.5	
	CV	1.7	7.3	1.2	5.3	36.0	

Appendix 31. Characteristics of entries in ICCT-DS at
Srilanka - 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flowering	Plant height (cm)	Days to maturity	100 seed mass (g)	Seed yield kg/ha	Rank
1	4918	46	28	85	18	367	14
2	5003	63	33	95	21	286	15
3	11141	46	28	85	13	662	6
4	84204	57	27	85	14	634	8
5	85211	46	28	73	12	688	5
6	84215	44	32	84	19	749	3
7	83149	47	30	85	16	536	10
8	83227	52	31	85	14	494	12
9	86224	49	33	85	16	742	4
10	86226	51	33	85	17	653	7
11	83128	47	31	77	18	608	9
12	84239	49	27	81	16	506	11
13	86206	45	29	88	21	1028	1
14	86227	46	32	84	11	858	2
15	86209	46	32	92	21	428	13
	SE	1.2	1.1	2.8	-	616	
	MEAN	49.0	30.2	84.6	16.4	-	
	CV	4.3	6.4	5.8	-	37.8	

Appendix 32. Characteristics of entries in ICCT-DS at
Lam - 1987-88

Entry no	ICC./ ICCL.No.	Plant height (cm)	Days to maturity	100 seed mass (g)	Seed yield kg/ha	Rank
1	4918	45	111	19	1035	10
2	5003	46	106	29	796	14
3	11141	45	123	20	1144	7
4	84204	47	121	20	807	13
5	85211	43	117	15	1339	3
6	84215	50	101	21	1066	9
7	83149	47	100	15	1135	8
8	83227	46	110	15	1161	6
9	86224	40	100	16	1307	4
10	86226	41	101	12	1439	2
11	83128	48	121	17	977	11
12	84239	49	106	17	1600	1
13	86206	48	120	14	469	16
14	86227	44	116	12	1215	5
15	86209	48	106	18	954	12
16	Lo.ch	50	106	12	670	15
	SE	3.0	0.6	0.5	197.1	
	MEAN	46.0	110.2	16.9	1069.7	
	CV	11.3	0.9	4.9	31.9	

Appendix 33. Characteristics of entries in ICCT-DS at
Patancheru - 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flowering	Plant height (cm)	Days to maturity	100 seed mass (g)	Seed yield kg/ha	Rank
1	4918	55	30	100	20	1251	6
2	5003	62	33	113	30	1085	12
3	11141	54	28	100	16	1347	2
4	84204	55	28	105	23	1313	4
5	85211	54	27	100	16	1182	9
6	84215	55	31	105	23	1029	13
7	83149	54	29	102	19	1454	1
8	83227	54	28	102	19	1301	5
9	86224	54	32	100	19	1176	10
10	86226	54	29	101	13	1332	3
11	83128	54	30	102	19	665	16
12	84239	55	30	101	21	1229	8
13	86206	54	29	100	16	1238	7
14	86227	54	30	102	14	1115	11
15	86209	54	29	101	21	813	15
16	Lo.ch	55	28	103	19	1010	14
	SE	0.4	1.4	0.9	0.4	119.3	
	MEAN	54.8	29.1	102.3	19.4	1158.8	
	CV	1.6	9.3	1.7	4.1	20.6	

Appendix 34. Characteristics of entries in ICCT-DS at Junagadh - 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flowering	Plant height (cm)	Days to maturity	100 seed mass (g)	Seed yield kg/ha	Rank
1	4918	40	17	87	19	527	13
2	5003	57	20	95	27	546	12
3	11141	40	16	85	15	837	3
4	84204	41	18	91	21	696	9
5	85211	40	15	89	15	457	15
6	84215	41	25	94	19	744	5
7	83149	50	16	87	18	489	14
8	83227	44	18	88	19	1087	1
9	86224	45	22	87	15	989	2
10	86226	43	17	84	12	712	8
11	83128	45	17	89	19	739	6
12	84239	45	17	89	19	736	7
13	86206	42	16	89	16	739	6
14	86227	41	18	86	13	832	4
15	86209	40	19	90	18	609	11
16	Lo.ch	39	18	85	12	680	10
	SE	0.4	0.7	0.4	0.7	14.7	
	MEAN	43.2	18.0	88.4	17.4	713.6	
	CV	1.6	7.5	0.9	8.1	4.1	

Appendix 35. Characteristics of entries in ICCT-DS at Gulbarga - 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flowering	Days to maturity	100 seed mass (g)	Seed yield kg/ha	Rank
1	4918	54	95	18	1708	10
2	5003	49	95	26	1219	16
3	11141	51	92	15	2028	1
4	84204	61	101	20	1611	12
5	85211	49	92	15	1771	6
6	84215	56	93	20	1819	4
7	83149	54	94	16	1590	13
8	83227	55	95	18	1861	2
9	86224	54	96	18	1743	7
10	86226	55	97	19	1826	3
11	83128	49	93	18	1674	11
12	84239	50	97	18	1792	5
13	86206	59	101	15	1729	8
14	86227	53	93	14	1583	15
15	86209	52	91	18	1587	14
16	Lo.ch	57	97	20	1722	9
	SE	0.4	0.5	-	123.4	
	MEAN	53.7	95.0	18.1	1704.0	
	CV	1.4	0.9	-	12.5	

Appendix 36. Characteristics of entries in ICCT-DS at Raipur - 1987-88

Entry no	ICC./ICCL.No.	Days to 50% flowering	Plant height (cm)	Days to maturity	100 seed mass (g)	Seed yield kg/ha	Rank
1	4918	60	46	109	17	1851	13
2	5003	61	53	115	27	1458	16
3	11141	58	49	107	14	2274	2
4	84204	58	48	84	21	1917	11
5	85211	56	47	107	14	1571	15
6	84215	59	55	111	18	1756	14
7	83149	58	51	109	17	2077	6
8	83227	57	48	109	17	2012	7
9	86224	57	52	106	17	2006	8
10	86226	58	48	108	12	1976	9
11	83128	59	52	110	17	2131	4
12	84239	57	46	111	19	1964	10
13	86206	57	46	108	13	2232	3
14	86227	57	51	109	12	2113	5
15	86209	58	51	112	20	1905	12
16	Lo.ch	58	49	105	17	2280	1
	SE	0.3	1.6	6.1	0.4	128.5	
	MEAN	57.9	49.4	107.4	16.9	1970.3	
	CV	0.9	6.6	11.4	4.7	13.0	

Appendix 37. Characteristics of entries in ICCT-DS at Keonjhar - 1987-88

Entry no	ICC./ICCL.No.	Days to 50% flowering	Days to maturity	100 seed mass (g)	Seed yield kg/ha	Rank
1	4918	42	103	20	594	4
2	5003	64	111	29	313	16
3	11141	41	100	13	444	13
4	84204	43	101	19	531	6
5	85211	41	100	15	550	5
6	84215	43	103	18	500	9
7	83149	42	102	17	419	14
8	83227	51	104	16	650	1
9	86224	56	105	16	638	2
10	86226	50	104	11	506	8
11	83128	42	103	17	494	10
12	84239	43	103	20	488	11
13	86206	41	101	14	625	3
14	86227	50	102	13	481	12
15	86209	47	104	19	319	15
16	Lo.ch	47	100	16	519	7
	SE	1.0	0.8	0.4	77.1	
	MEAN	46.5	102.7	17.0	504.3	
	CV	4.5	1.6	5.2	30.6	

Appendix 38. Characteristics of entries in ICCT-DS at
Mayagach - 1987-88

Entry no	ICC./ ICCL.No.	Days to Plant 50% flowering	Plant height (cm)	Days to 100 maturity	100 seed mass (g)	Seed yield kg/ha	Rank
1	4918	46	30	83	13	174	7
2	5003	49	32	87	13	181	3
3	11141	46	32	72	11	150	12
4	84204	46	32	84	19	175	6
5	85211	48	26	86	13	180	5
6	84215	48	33	87	14	181	3
7	83149	48	26	87	16	180	4
8	83227	49	35	87	11	180	4
9	86224	46	31	83	12	174	7
10	86226	44	28	83	11	172	9
11	83128	45	26	83	12	174	7
12	84239	49	26	87	14	181	2
13	86206	46	29	81	15	169	11
14	86227	45	28	82	15	172	10
15	86209	48	27	87	17	181	1
16	Lo.ch	46	32	83	10	173	8
	SE	0.6	0.2	2.7	1.2	5.7	
	MEAN	46.7	29.5	83.8	13.5	174.6	
	CV	2.4	1.6	6.5	17.9	6.5	

Appendix 39. Characteristics of entries
in ICCT-DS at Kota- 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flowering	Days to maturity	100 seed mass (g)	Seed yield kg/ha	Rank
1	4918	83	138	21	2862	12
2	5003	85	139	30	2386	15
3	11141	82	137	13	3164	8
4	84204	83	133	18	2280	16
5	85211	83	136	15	2677	13
6	84215	80	138	21	3450	4
7	83149	80	134	18	3503	3
8	83227	80	135	21	3958	1
9	86224	82	132	17	3206	7
10	86226	83	138	12	2910	10
11	83128	81	136	17	3831	2
12	84239	81	139	22	2889	11
13	86206	82	140	14	3434	5
14	86227	84	140	13	2926	9
15	86209	80	138	21	2630	14
16	Lo.ch	82	137	13	3265	6
	SE	1.4	0.9	-	232.3	
	MEAN	81.9	137.0	18.0	3085.6	
	CV	3.0	1.1	-	13.0	

Appendix 40. Characteristics of entries in
ICCT-DS at Navon - 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flo wering	Seed yield kg/ha	Rank
1	4918	57	672	16
2	5003	72	1231	6
3	11141	56	902	14
4	84204	54	917	13
5	85211	53	750	15
6	84215	72	963	11
7	83149	53	1402	2
8	83227	57	1018	10
9	86224	61	1037	9
10	86226	56	1243	5
11	83128	54	1147	8
12	84239	57	930	12
13	86206	54	1500	1
14	86227	58	1217	7
15	86209	54	1353	3
16	Lo.ch	78	1291	4
	SE	1.7	167.3	
	MEAN	59.0	1098.2	
	CV	5.8	30.5	

Appendix 41. Characteristics of entries in ICCT-DM at Nepalganj - 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flowering	Plant height (cm)	Days to maturity	100 seed mass (g)	Seed yield kg/ha	Rank
1	4918	63	60	144	11	2474	8
2	5003	80	55	145	25	2927	3
3	11141	75	64	146	10	1813	16
4	85333	85	59	145	22	2349	11
5	84303	72	67	145	14	2572	6
6	85307	70	65	144	16	2764	5
7	85311	72	65	145	10	2351	10
8	85314	83	59	145	11	2965	2
9	86301	76	75	146	17	1849	15
10	85316	74	62	144	10	2203	13
11	86334	76	61	146	15	1975	14
12	86333	77	61	146	14	2834	4
13	85309	87	59	144	20	3317	1
14	86309	74	66	147	16	2288	12
15	85302	80	69	147	15	2408	9
16	Lo.ch	72	50	144	8	2493	7
	SE	1.4	6.1	0.9	0.9	265	
	MEAN	75.8	62.2	145.0	14.6	2474	
	CV	3.6	19.6	1.2	11.9	21.5	

Appendix 42. Characteristics of entries in ICCT-DM at Patnacheru- 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flowering	Plant height (cm)	Days to maturity	100 seed mass (g)	Seed yield kg/ha	Rank
1	4918	55	31	99	21	1236	12
2	5003	62	37	110	30	1240	11
3	11141	65	37	112	12	1218	13
4	85333	58	33	105	24	1037	16
5	84303	55	29	99	14	1258	9
6	85307	56	33	98	17	1316	7
7	85311	60	31	102	15	1307	8
8	85314	61	35	107	14	1248	10
9	86301	61	32	107	21	1519	2
10	85316	62	34	109	14	1364	6
11	86334	56	27	100	19	1168	14
12	86333	56	29	99	16	1522	1
13	85309	62	38	103	23	1373	5
14	86309	59	34	103	19	1138	15
15	85302	58	31	104	18	1405	3
16	Lo.ch	55	30	99	27	1401	4
	SE	0.9	1.2	0.9	0.7	106.8	
	MEAN	58.7	32.5	103.4	18.9	1296.9	
	CV	3.2	7.2	1.7	6.9	16.5	

Appendix 43. Characteristics of entries in ICCT-DM at Ranchi - 1987-88

Entry no	ICC./ICCL.No.	Days to 50% flowering	Plant height (cm)	Days to maturity	100 seed mass (g)	Seed yield kg/ha	Rank
1	4918	76	42	131	18	365	15
2	5003	81	44	130	25	833	7
3	11141	83	42	132	11	608	12
4	85333	79	41	128	20	885	4
5	84303	79	37	131	14	625	11
6	85307	76	48	127	17	833	7
7	85311	79	41	133	13	1024	2
8	85314	81	43	132	12	459	14
9	86301	81	35	134	19	677	10
10	85316	77	41	132	14	695	9
11	86334	81	44	130	16	851	6
12	86333	80	40	135	15	903	3
13	85309	81	45	128	21	1077	1
14	86309	78	45	130	18	521	13
15	85302	76	39	127	15	764	8
16	Lo.ch	83	43	142	13	882	5
	SE	0.9	1.9	1.1	0.4	48.2	
	MEAN	79.4	41.8	131.2	16.3	750.0	
	CV	2.4	8.9	1.7	4.9	12.9	

Appendix 44. Characteristics of entries in ICCT-DM at Junagadh - 1987-88

Entry no	ICC./ICCL.No.	Days to 50% flowering	Plant height (cm)	Days to maturity	100 seed mass (g)	Seed yield kg/ha	Rank
1	4918	40	18	90	19	677	13
2	5003	57	27	98	25	746	10
3	11141	66	22	108	13	165	16
4	85333	52	23	91	20	885	3
5	84303	49	18	91	14	811	7
6	85307	45	20	89	16	694	12
7	85311	60	22	104	13	951	1
8	85314	60	21	104	12	850	5
9	86301	57	21	107	20	932	2
10	85316	55	24	104	14	409	15
11	86334	44	17	90	16	836	6
12	86333	45	17	91	15	710	11
13	85309	63	26	106	21	883	4
14	86309	56	20	96	18	653	14
15	85302	49	19	90	18	803	8
16	Lo.ch	62	24	106	15	779	9
	SE	0.3	0.8	0.4	0.3	12.8	
	MEAN	53.6	21.1	97.7	16.7	736.4	
	CV	1.2	7.2	0.7	3.1	3.5	

Appendix 45. Characteristics of entries in ICCT-DM at
Gwalior- 1987-88

Entry no	ICC. / ICCL.No.	Days to Plant 50% flo wering	Plant height gnt (cm)	Days to matur ity	Days to 100 seed mass (g)	Seed yield kg/ha	Rank
1	4918	56	38	141	18	1508	13
2	5003	65	46	133	27	2203	2
3	11141	73	47	132	13	1826	7
4	85333	61	43	136	23	1845	6
5	04303	56	38	130	16	1687	12
6	05307	57	42	130	18	2024	4
7	05311	61	40	141	18	1964	5
8	05314	64	40	135	14	1746	9
9	06301	62	38	134	22	1449	14
10	05316	57	41	139	15	1706	11
11	06334	56	34	133	20	1409	15
12	06333	56	38	133	16	2520	1
13	05309	69	44	133	25	2143	3
14	06309	63	41	130	17	1707	10
15	05302	57	40	135	18	1290	16
16	Lo.ch	59	39	128	15	1786	8

SE	1.6	3.0	2.6	1.5	235.6
MEAN	60.7	40.4	133.9	18.4	1800.6
CV	5.1	14.7	3.9	16.0	25.9

Appendix 46. Characteristics of
entries in ICCT-DM
at Navgon - 1987-88

Entry no	ICC. / ICCL.No.	Days to 50% flo wering	Seed yield kg/ha	Rank
1	4918	59	1285	14
2	5003	82	2206	2
3	11141	89	1131	15
4	85333	76	1559	11
5	04303	56	1803	6
6	05307	53	1101	16
7	05311	75	2030	4
8	05314	79	1728	8
9	06301	75	1971	5
10	05316	74	2149	3
11	06334	64	1727	9
12	06333	69	2213	1
13	05309	87	1714	10
14	06309	76	1461	12
15	05302	75	1732	7
16	Lo.ch	85	1431	13

SE	1.8	224.0
MEAN	73.1	703.6
CV	4.9	26.3

Appendix 47 .Characteristics of entries in ICCT-DM at
Berhampur - 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flo wering	Days to matur ity	100 seed mass (g)	Seed yield kg/ha	Rank
1	4918	62	128	21	1619	6
2	5003	72	133	29	1428	8
3	11141	78	140	12	1175	14
4	85333	70	131	25	2667	2
5	84303	71	136	15	1222	11
6	85307	63	131	17	1238	10
7	85311	69	132	12	1667	5
8	85314	71	137	13	1175	13
9	86301	72	136	23	921	15
10	85316	70	133	13	1191	12
11	86334	41	132	16	2905	1
12	86333	67	132	15	1254	9
13	85309	79	142	26	1619	7
14	86309	70	133	17	714	16
15	85302	67	130	20	1873	3
16	Lo.ch	70	132	12	1778	4
	SE	5.2	1.0	0.2	155.9	
	MEAN	68.2	133.7	17.9	1527.9	
	CV	13.3	1.3	2.4	17.7	

Appendix 48. Characteristics of entries in ICCT-DL at Sabour- 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flowering	Days to maturity	Seed yield kg/ha	Rank
1	4948	89	132	1891	11
2	10136	86	125	2344	1
3	14303	90	127	1839	12
4	85401	84	129	2235	2
5	83408	86	127	1677	15
6	86401	92	130	2177	4
7	86403	85	128	2047	7
8	86404	86	130	1641	16
9	86416	88	129	1922	10
10	86428	92	130	1807	13
11	86446	87	129	1988	9
12	86447	90	129	1745	14
13	86453	84	130	2214	3
14	86455	86	130	2120	6
15	86456	86	129	2021	8
16	Lo.ch	87	130	2146	5
	SE	0.7	1.9	127.9	
	MEAN	87.3	128.8	1988.3	
	CV	1.5	3.0	12.9	

Appendix 49. Characteristics of entries in ICCT-DL at Delhi- 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flowering	Plant height (cm)	Days to maturity	100 seed mass (g)	Seed yield kg/ha	Rank
1	4948	82	60	140	12	1135	14
2	10136	82	42	139	11	1599	1
3	14303	86	54	142	12	1423	6
4	85401	82	54	139	12	1571	2
5	83408	85	53	140	13	1148	13
6	86401	83	53	139	14	1365	8
7	86403	82	50	140	16	1220	12
8	86404	86	53	139	12	1338	10
9	86416	85	51	139	16	885	16
10	86428	84	72	141	14	1251	11
11	86446	80	62	141	16	1004	15
12	86447	86	62	143	13	1565	3
13	86453	82	49	139	12	1414	7
14	86455	80	49	140	13	1364	9
15	86456	80	45	139	12	1492	4
16	Lo.ch	81	49	142	13	1435	5
	SE	0.6	2.9	0.8	0.9	111.4	
	MEAN	82.8	53.6	140.0	13.2	1325.4	
	CV	1.6	11.0	1.1	13.6	16.8	

Appendix 50. Characteristics of entries in ICCT-DL at Gwalior 1987-88

Entry no	ICC./ ICCL.No.	Days to Plant		Days to 100 seed mass (g)	Seed yield		
		50% flo wering	hei- ght (cm)		kg/ha	Rank	
1	4948	75	49	138	12	1607	7
2	10136	75	44	129	12	1726	4
3	14303	85	54	141	17	1071	13
4	85401	69	49	128	12	1686	6
5	83408	87	53	142	16	1151	11
6	86401	72	46	129	14	1488	8
7	86403	77	46	136	12	1924	3
8	86404	87	46	141	13	1151	11
9	86416	80	51	139	13	1230	10
10	86428	79	63	140	16	1072	12
11	86446	72	54	127	17	1468	9
12	86447	86	52	141	13	1230	10
13	86453	77	47	133	12	1945	2
14	86455	67	48	126	13	1687	5
15	86456	73	44	134	12	1726	4
16	Lo.ch	61	46	132	12	2063	1
	SE	1.4	3.0	2.0	0.6	161.4	
	MEAN	76.3	49.5	134.6	13.5	1514.0	
	CV	3.8	12.3	3.0	9.5	21.3	

Appendix 51 . Characteristics of entries in ICCT-DL at Hisar- 1987-88

Entry no	ICC./ ICCL.No.	Days to Plant		Days to 100 seed mass (g)	Seed yield		
		50% flo wering	hei- ght (cm)		kg/ha	Rank	
1	4948	84	39	149	15	1915	4
2	10136	80	32	148	15	1780	6
3	14303	88	36	148	18	1753	8
4	85401	76	37	147	15	1721	9
5	83408	95	43	149	16	2009	3
6	86401	80	33	150	16	1775	7
7	86403	82	45	149	15	2047	2
8	86404	93	35	148	13	1589	13
9	86416	90	38	147	13	1551	15
10	86428	87	47	149	17	1361	16
11	86446	80	35	149	20	1715	10
12	86447	95	44	149	13	1562	14
13	86453	84	39	147	15	1870	5
14	86455	76	40	149	16	2073	1
15	86456	81	39	147	14	1622	12
16	Lo.ch	76	35	149	14	1695	11
	SE	1.0	2.1	0.7	0.8	175.3	
	MEAN	84.1	38.5	148.2	15.2	1752.1	
	CV	2.4	11.1	0.9	10.9	20.0	

Appendix 52. Characteristics of entries in ICCT-DL at Paridkot- 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flo wering	Days to matur ity	Seed yield	
				kg/ha	Rank
1	4948	97	147	698	13
2	10136	91	147	716	11
3	14303	97	146	852	8
4	85401	89	145	917	6
5	83408	97	147	703	12
6	86401	89	150	977	4
7	86403	90	150	1063	2
8	86404	97	148	990	3
9	86416	94	148	1081	1
10	86428	95	149	938	5
11	86446	88	149	794	10
12	86447	100	148	888	7
13	86453	91	145	344	9
14	86455	89	146	669	14
15	86456	88	146	474	16
16	L.ch	89	146	547	15
	SE	1.2	1.0	111.5	
	MEAN	92.4	147.1	821.8	
	CV	2.6	1.4	27.1	

Appendix 53. Characteristics of entries in ICCT-DL at Gurudaspur- 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flo wering	Plant hei- ght (cm)	Days to matur ity	100 seed mass (g)	Seed yield	
						kg/ha	Rank
1	4948	105	53	169	15	694	12
2	10136	109	62	170	12	1563	3
3	14303	102	54	169	16	903	11
4	85401	103	56	171	14	694	12
5	83408	109	54	168	15	1111	8
6	86401	100	59	168	15	1111	8
7	86403	101	64	172	13	1215	6
8	86404	113	55	173	13	1111	8
9	86416	106	56	172	14	1042	9
10	86428	109	62	172	16	1042	10
11	86446	101	67	173	16	1319	5
12	86447	109	52	170	14	1667	2
13	86453	105	54	169	14	1111	8
14	86455	104	56	167	14	1146	7
15	86456	98	54	169	13	1389	4
16	Loc.ch	97	69	168	14	2500	1
	SE	0.5	0.9	0.3	0.4	36.8	
	MEAN	104.2	57.8	169.9	14.3	1226.1	
	CV	0.9	3.1	0.3	5.3	6.0	

Appendix 54. Characteristics of entries in ICCT-DL at Ludhiana - 1987-88

Entry no	ICC./ ICCL.No.	Seed yield	
		kg/ha	Rank
1	4948	2187	2
2	10136	2500	1
3	14303	1833	9
4	85401	1979	7
5	83408	1719	10
6	86401	2031	5
7	86403	1979	6
8	86404	1703	11
9	86416	1667	12
10	86428	1000	14
11	86446	1484	13
12	86447	1901	8
13	86453	1719	10
14	86455	1901	8
15	86456	2161	3
16	Lo.ch	2109	4

SE 203.2
MEAN 1867.2
CV 21.8

Appendix 55. Characteristics of entries in ICCT-DL at Briganganagar 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flowering	Plant height (cm)	Days to maturity	100 seed mass (g)	Seed yield	
						kg/ha	Rank
1	4948	92	78	156	12	2175	12
2	10136	92	60	153	11	2708	5
3	14303	90	68	153	11	2279	11
4	85401	92	74	155	12	2289	10
5	83408	98	74	154	13	2161	13
6	86401	92	62	155	13	3164	1
7	86403	92	68	154	12	2904	2
8	86404	97	68	153	12	2891	3
9	86416	93	70	154	12	2149	14
10	86428	96	83	154	15	1979	16
11	86446	90	75	153	17	2539	7
12	86447	99	69	180	13	2146	15
13	86453	89	68	154	12	2878	4
14	86455	91	66	153	15	2669	6
15	86456	91	66	152	12	2383	9
16	Lo.ch	90	70	153	10	2487	8

SE 0.4 1.6 6.2 - 209.0
MEAN 92.6 69.7 155.2 12.6 2487.4
CV 0.9 4.6 8.0 - 16.8

Appendix 56. Characteristics of entries in ICCT-DL at Garampani- 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flowering	Plant height (cm)	Days to maturity	Seed yield kg/ha	Rank
1	4948	106	50	166	1942	6
2	10136	100	49	164	2210	1
3	14303	96	54	164	1761	9
4	85401	102	46	165	1572	12
5	83408	106	50	164	1638	11
6	86401	98	47	164	2065	4
7	86403	103	48	165	1928	7
8	86404	101	45	163	1681	10
9	86416	105	50	165	1420	14
10	86428	104	68	166	884	16
11	86446	98	62	163	1529	13
12	86447	100	53	165	1029	15
13	86453	102	55	163	2145	3
14	86455	95	48	163	1906	8
15	86456	94	46	164	2174	2
16	Loc.ch	94	55	165	2022	5
	SE	3.7	3.7	0.9	163.7	
	MEAN	100.2	51.6	164.3	1744.1	
	CV	6.4	12.4	0.9	16.3	

Appendix 57. Characteristics of entries in ICCT-DL At Kanpur - 1987-88

Entry no	ICC./ ICCL.No.	Seed yield kg/ha	Rank
1	4948	1563	7
2	10136	1163	13
3	14303	1077	16
4	85401	2031	2
5	83408	1215	11
6	86401	1806	4
7	86403	1164	12
8	86404	1562	8
9	86416	1754	6
10	86428	1302	10
11	86446	1146	14
12	86447	1094	15
13	86453	2170	1
14	86455	1528	9
15	86456	1979	3
16	Lo.ch	1771	5
	SE	274.4	274.4
	MEAN	1520.2	1520.2
	CV	36.1	36.1

Appendix 58. Characteristics of entries in
ICCT-DL at Meerut- 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flowering	Days to maturity	100 seed mass (g)	Seed yield kg/ha	Rank
1	4948	112	161	13	906	12
2	10136	115	161	12	1075	8
3	14303	108	163	17	712	15
4	85401	108	164	14	928	11
5	83408	115	162	15	1316	1
6	86401	105	161	13	1236	2
7	86403	108	163	12	1229	4
8	86404	117	161	13	1229	3
9	86416	108	162	14	1094	7
10	86428	115	164	16	547	16
11	86446	112	162	18	1069	9
12	86447	118	166	14	873	13
13	86453	107	163	13	1172	5
14	86455	106	161	14	991	10
15	86456	103	160	13	1101	6
16	Lo.ch	105	161	13	783	14
	SE	2.6	1.2	0.3	141.7	
	MEAN	110.0	162.0	13.9	1016.3	
	CV	4.6	1.4	4.9	27.9	

Appendix 59. Characteristics of entries in
ICCT-K at Lam - 1987-88

Entry no	ICC./ ICCL.No.	Days to 100		Seed yield	
		50% flo wering	seed mass (g)	kg/ha	Rank
1	12970	49	19	630	7
2	12975	47	24	381	14
3	12973	48	22	678	6
4	12978	52	20	489	11
5	12339	47	16	696	5
6	86501	53	21	537	9
7	86502	49	27	763	4
8	86503	51	16	317	15
9	86504	50	18	522	10
10	86505	45	19	455	13
11	86506	49	11	485	12
12	86507	47	26	587	8
13	86508	46	26	145	16
14	86509	47	19	1104	1
15	86510	49	20	863	3
16	4973	47	27	936	2

SE	2.6	0.4	115.0
MEAN	48.5	20.8	599.0
CV	9.3	3.1	33.3

Appendix 60. Characteristics of entries in ICCT-K at
Patancheru - 1987-88

Entry no	ICC./ ICCL.No.	Days to Plant		100 seed mass (g)	Seed yield	
		50% flo wering	hei- ght (cm)		kg/ha	Rank
1	12970	43	29	94	923	6
2	12975	48	32	99	1161	1
3	12973	57	33	109	1006	5
4	12978	56	35	107	1124	3
5	12339	64	32	115	746	11
6	86501	64	33	114	911	7
7	86502	66	37	117	850	9
8	86503	83	40	119	346	15
9	86504	83	38	119	555	13
10	86505	65	36	117	736	12
11	86506	82	37	119	538	14
12	86507	66	36	116	839	10
13	86508	85	38	119	124	16
14	86509	65	33	114	1130	2
15	86510	65	36	116	894	8
16	4973	65	34	114	1015	4

SE	1.2	1.3	1.0	0.7	117.7
MEAN	65.9	34.9	112.8	26.2	806.3
CV	3.7	7.5	1.8	5.3	29.2

Appendix 61. Characteristics of entries in ICCT-K at Delhi- 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flowering	Plant height (cm)	Days to 100% maturity	100 seed mass (g)	Seed yield kg/ha	Rank
1	12970	75	49	137	24	1355	2
2	12975	77	37	137	27	909	12
3	12973	81	52	138	25	1057	8
4	12978	78	57	138	28	915	11
5	12339	78	59	136	20	873	14
6	86501	77	51	137	24	959	9
7	86502	78	65	138	29	1362	1
8	86503	82	63	137	32	638	16
9	86504	78	60	137	26	1191	4
10	86505	77	52	137	23	1093	7
11	86506	78	60	137	27	1187	5
12	86507	78	67	139	29	933	10
13	86508	82	59	139	27	1184	6
14	86509	77	66	137	24	1316	3
15	86510	78	60	137	27	896	13
16	4973	78	56	137	23	673	15
	SE	0.4	3.1	0.6	1.0	170.0	
	MEAN	78.3	57.2	137.3	25.9	1033.7	
	CV	1.1	11.0	0.9	8.1	32.9	

Appendix 62. Characteristics of entries in ICCT-K at Gwalior - 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flowering	Plant height (cm)	100 seed mass	Seed yield kg/ha	Rank
1	12970	47	41	24	1486	2
2	12975	48	45	31	1526	1
3	12973	71	56	20	1033	15
4	12978	64	53	24	1335	7
5	12339	73	52	17	1428	3
6	86501	76	55	20	1365	5
7	86502	77	55	25	1288	8
8	86503	81	60	28	1037	14
9	86504	81	69	23	1044	13
10	86505	75	52	21	1262	10
11	86506	73	60	26	1201	12
12	86507	76	56	26	1244	11
13	86508	82	63	25	1002	16
14	86509	76	53	18	1407	4
15	86510	78	58	21	1274	9
16	4973	73	51	18	1358	6
	SE	3.4	3.9	1.0	120.4	
	MEAN	71.8	54.8	23.0	1267.9	
	CV	9.5	14.2	8.5	19.0	

Appendix 63. Characteristics of entries in ICCT-K at
Hisar ICRISAT- 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flo- wering ing	Days to matur- ity	100 seed mass (g)	Seed yield	
					kg/ha	Rank
1	12970	40	147	25	1260	14
2	12975	48	147	33	1037	15
3	12973	69	147	28	1547	12
4	12978	69	148	29	1794	3
5	12339	76	146	20	1800	2
6	86501	74	147	26	1654	7
7	86502	77	147	30	1792	4
8	86503	92	148	31	1703	5
9	86504	81	146	31	1641	9
10	86505	76	148	24	1404	13
11	86506	90	146	30	1698	6
12	86507	75	147	32	1633	10
13	86508	89	149	32	1649	8
14	86509	74	146	23	1568	11
15	86510	75	146	27	1951	1
16	4973	74	147	24	1568	11
	SE	0.8	0.9	1.0	174.9	
	MEAN	73.5	146.8	27.7	1605.9	
	CV	2.2	1.2	7.3	21.8	

Appendix 64. Characteristics of entries in ICCT-K at
NAU Hisar - 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flo- wering ing	Plant hei- ght (cm)	Days to matur- ity	100 seed mass (g)	Seed yield	
						kg/ha	Rank
1	12970	58	38	140	26.5	1548	13
2	12975	73	46	144	29.6	2818	8
3	12973	80	57	150	26.5	3175	5
4	12978	80	56	150	25.0	2699	10
5	12339	80	57	150	30.6	3135	6
6	86501	80	55	150	24.1	2897	7
7	86502	80	67	150	23.0	3373	3
8	86503	80	63	150	20.6	2778	9
9	86504	80	62	150	29.0	3175	5
10	86505	80	68	150	26.4	3373	3
11	86506	80	69	150	27.4	4048	1
12	86507	80	65	150	31.6	2460	11
13	86508	80	64	150	29.5	2341	12
14	86509	80	58	150	23.3	3175	5
15	86510	80	67	150	30.5	3969	2
16	4973	80	54	150	30.6	3294	4
	SE					323.7	
	MEAN					3015.9	
	CV					21.5	

Appendix 65. Characteristics of entries in ICCT-K at
Sriganganagar- 1987-88

Entry no	ICC./ ICCL.No.	Days to 50% flowering	Plant height (cm)	Days to maturity	100 seed mass (g)	Seed yield kg/ha	Rank
1	12970	63	60	161	22	2859	10
2	12975	63	65	162	32	2552	12
3	12973	94	71	165	24	1849	16
4	12978	95	63	166	14	3255	4
5	12339	87	67	166	19	3099	7
6	86501	95	57	165	24	3386	3
7	86502	97	68	164	29	3016	9
8	86503	94	77	164	31	2495	15
9	86504	92	71	164	25	3203	6
10	86505	92	79	167	25	2526	13
11	86506	96	68	165	28	2500	14
12	86507	95	70	164	30	3068	8
13	86508	96	67	164	30	2599	11
14	86509	93	73	162	27	3776	1
15	86510	87	66	163	26	3542	2
16	4973	93	69	163	22	3219	5
	SE	0.6	1.7	0.5	*	351.7	
	MEAN	89.4	67.9	163.8	25.5	2933.9	
	CV	1.2	5.1	0.6	*	24.0	