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**PEARL MILLET
TRIALS RESULTS
1990**

**Cereals Program
International Crops Research Institute for the Semi-Arid Tropics
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Table 1. Summary of performance for PNAF across 3 locations (MP, BSR1, BSR2) (harif-8)

Entry no	Grain field						Seed yield		Bloss		Plant height		Ear length		
	kg ha ⁻¹	K of		K trial		Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank
		Controls	Rank	mean	Rank										
1	2650	102	16	97	17	4501.9	13	47	10	193	15	23	14		
2	2910	111	8	106	6	4140.8	6	42	8	206	7	24	8		
3	2050	101	8	103	7	4107.0	8	49	6	184	13	22	19		
4	2550	98	19	94	19	3912.9	16	51	4	195	11	24	12		
5	2880	102	14	92	15	4193.0	5	48	16	195	12	22	17		
6	2700	102	12	93	12	3846.1	17	50	7	200	6	25	4		
7	3150	121	1	115	1	4504.2	3	47	19	203	8	25	7		
8	2760	106	10	100	11	4087.2	11	51	4	190	19	27	3		
9	2690	102	12	98	12	3970.9	15	57	1	246	1	26	5		
10	2530	97	20	92	20	3725.3	21	47	22	213	5	24	10		
11	3010	115	5	111	5	4107.0	9	51	4	212	4	22	17		
12	2670	102	15	98	14	3843.7	18	47	21	194	14	22	21		
13	3040	116	4	111	4	4217.4	4	48	12	202	10	22	15		
14	3050	117	3	112	3	4531.1	1	51	2	201	9	27	2		
15	2460	94	22	91	22	3629.9	22	43	15	197	22	22	21		
16	2430	95	21	92	21	3497.0	23	45	23	176	23	22	17		
17	2790	107	9	102	9	3911.0	14	48	13	198	21	21	24		
18	3150	121	2	115	2	4520.4	2	48	16	180	18	24	9		
19	2650	101	17	97	16	4079.0	10	51	4	217	2	21	6		
20	2440	92	23	89	23	3492.7	24	41	24	158	24	21	22		
21	2850	105	7	104	8	4123.1	7	43	17	219	5	24	21		
22	2590	93	18	94	18	3764.9	20	47	20	181	18	21	22		
23	2270	87	24	82	24	3300.0	19	43	10	184	17	24	12		
24	2700	115	11	106	10	4014.4	12	45	11	186	16	23	1		
SE ₁	117.4					156.5		0.5		3.9		0.5			
Mean	2743.0					4004.0		49.0		195.0		24.0			
b2	0.2					0.1		0.5		0.5		0.5			

b2 first on mean basis.

Table 2. Summary of performance for PHARY Loc: PNF Eharif-99

Entry	Entry no.	Grain Yield		Panicle yield kg ha ⁻¹	Time to 50% bloom (d)	Plant height (cm)	Panicle length (cm)	Plant count ('000/ha)	Seed count ('000/ha)	VSS	FS reaction	
		kg ha ⁻¹	% trial mean									
ICWH 89568	14	3100	1	122	4032	47	163	23	58	153	5	4
ICWH 89528	11	2883	2	114	3691	47	166	20	84	147	2	9
ICWH 89189	18	2842	3	112	3728	47	158	20	96	137	3	2
ICWH 90209	6	2792	4	110	3800	49	171	22	69	138	8	3
ICWH 89582	13	2733	5	104	3545	46	165	18	68	143	4	2
ICWH 90210	7	2708	6	107	3528	45	180	22	84	190	4	2
ICWH 89664	19	2676	8	105	3629	49	177	21	66	138	5	6
ICWH 89583	15	2603	9	102	3408	48	152	21	70	122	4	2
ICWH 89581	12	2544	10	100	3247	43	159	18	32	187	6	2
ICWH 89586	17	2530	11	100	3284	47	163	20	70	133	5	2
ICWH 89585	16	2530	11	100	3426	46	154	21	84	148	5	2
ICWH 90206	3	2520	12	99	3362	46	162	21	85	188	5	2
ICWH 90205	2	2492	15	98	3208	46	158	21	64	142	4	2
ICWH 90204	1	2428	18	98	3258	46	161	20	84	153	8	1
ICWH 90208	5	2422	17	95	3251	46	156	20	81	141	5	2
ICWH 90213	9	2374	19	91	3048	49	173	21	68	137	9	2
ICWH 90461	20	2286	20	90	3039	59	154	17	91	232	5	2
ICWH 90212	8	2286	20	90	3084	45	156	25	83	125	5	4
ICWH 89522	10	2272	22	89	2998	43	164	21	93	150	6	8
ICWH 90207	4	2270	23	89	3675	48	151	21	91	134	4	2
ICWH 87003	22	2270	23	89	3675	48	151	21	91	134	4	2
ICWH 451	24	2497	14	98	3354	51	161	26	90	137	5	2
ICWH 89024	21	2411	18	95	3188	43	172	21	86	181	4	2
ICWH 423	23	2158	24	85	3057	47	150	22	92	139	6	6
SE _e		149.88		186.83	0.49	4.10	0.62	3.78	12.31	0.77	0.51	
MEAN		2540		3359	46	160.10	21.10	82.40	148.36	5.00	5.10	
CV(%)		10.20		9.60	1.20	4.40	5.10	7.90	14.40	26.50	20.20	
PROFIT		8.34		1.94	25.24	4.99	9.22	7.20	4.42	3.58	14.20	
h ² ₁		0.31		0.24	0.89	0.57	0.73	0.67	0.53	0.46	0.81	
h ² ₂		0.57		0.48	0.94	0.80	0.89	0.66	0.77	0.72	0.93	

h²₁ on plot basis; h²₂ on mean basis

Table 3. Summary of performance for PHANT Set 1 Loc: Bazar Kharif-99

Entry	Entry no.	Grain Yield		Particle yield kg ha ⁻¹	Time to 50% bloom (d)	Plant height (cm)	Particle length (cm)	Head count (¹⁰⁰⁰ /ha)	VUS	Lodging %	
		kg ha ⁻¹	% trial mean								
ICWR 99212	8	3742	1	121	5592	53	188	27	183.0	2	4
ICWR 99589	18	3572	2	116	9272	49	185	26	147.0	2	2
ICWR 99219	7	3539	4	115	5143	43	217	23	158.0	3	3
ICWR 99562	13	3583	5	114	4941	45	208	24	155.3	2	2
ICWR 99265	2	3331	6	108	5053	59	227	27	162.3	2	5
ICWR 99296	3	3195	8	104	4742	36	232	23	164.3	4	4
ICWR 99545	14	3161	9	103	4888	52	213	26	132.7	2	6
ICWR 99294	1	3139	10	102	4890	48	213	24	163.7	5	2
ICWR 99528	11	3100	12	101	4353	53	240	24	147.0	2	4
ICWR 99522	10	3093	15	97	4518	48	247	24	145.3	4	7
ICWR 99298	5	2997	14	97	4802	48	212	23	146.7	2	5
ICWR 99213	9	2994	15	97	4942	62	202	28	116.7	3	6
ICWR 99581	12	2925	16	95	4291	47	213	23	147.3	2	2
ICWR 99585	17	2863	17	92	4199	47	188	23	115.7	2	4
ICWR 99634	19	2861	18	92	4504	43	223	27	122.3	6	6
ICWR 99401	20	2847	19	92	4054	41	190	23	132.3	2	2
ICWR 99239	6	2817	20	91	4282	51	204	28	128.3	2	8
ICWR 99207	4	2758	21	89	4553	52	213	26	138.3	2	2
ICWR 99585	16	2637	22	87	3822	45	197	23	130.3	2	7
ICWR 99583	15	2556	23	83	3879	47	173	21	113.3	2	4
ICWR 99024	21	2556	3	115	5141	51	237	26	135.7	2	2
ICWR 97007	22	2296	7	104	4786	43	192	22	125.7	2	6
ICWR 451	24	3108	11	101	4590	47	193	30	147.7	2	5
ICWR 453	23	2553	24	82	4535	49	195	25	153.7	7	3
SE _e		192.72			229.24	0.82	7.38	1.08	8.06	0.13	0.94
MEAN		3082.00			4542.00	43.50	210.30	24.90	142.00	2.70	4.30
CV (%)		10.89			8.43	2.99	6.10	7.53	11.00	22.70	24.90
FRATIC		2.90			3.80	20.62	8.97	3.50	3.59	8.43	4.88
b ² ₁		0.39			0.48	0.87	0.73	0.60	0.46	0.84	0.55
b ² ₂		0.65			0.74	0.95	0.89	0.82	0.72	0.84	0.79

b²₁ on plot basis; b²₂ on mean basis

Table 4. Summary of performance for PHART Loc : GISAR Set 2 (harif-96)

Entry	Entry no.	Grain Yield		Panicle yield kg ha ⁻¹	Time to 50% bloom (d)	Plant height (cm)	Panicle length (cm)	Plant count ('000/ha)	Head count	VCS	Lodging score	
		Kg ha ⁻¹	% trial									
ICMH 00219	7	3213	1	124	4043	48	233	20	70.9	100	4	5
ICMH 09520	11	3044	2	110	4275	52	230	21	72.7	113	2	5
ICMH 09509	18	3038	3	117	4501	47	192	27	64.0	115	2	2
ICMH 09506	17	2906	4	115	4190	50	183	23	66.1	101	2	5
ICMH 0205	3	2901	5	112	4170	51	233	25	60.4	125	2	6
ICMH 09565	14	2892	6	112	4025	53	229	20	36.7	192	3	5
ICMH 09562	13	2883	7	111	4107	50	227	24	64.3	104	2	4
ICMH 00206	3	2849	8	110	4270	51	210	23	62.6	113	2	5
ICMH 00213	9	2750	9	106	4222	61	300	30	45.0	82	3	3
ICMH 00207	4	2622	10	101	4104	52	222	23	69.3	110	2	5
ICMH 00200	5	2411	11	101	4427	49	217	24	66.7	111	3	2
ICMH 09501	12	2550	14	99	3903	50	218	24	80.3	121	3	2
ICMH 09508	6	2491	15	96	3651	51	245	24	53.5	97	3	7
ICMH 09404	19	2430	16	92	4104	54	245	26	31.5	95	3	6
ICMH 00204	1	2400	17	92	3052	48	203	23	65.0	118	5	2
ICMH 09522	10	2300	14	89	3663	43	228	24	71.3	102	4	4
ICMH 00212	8	2267	13	86	3524	50	187	19	79.3	88	2	5
ICMH 09505	16	2253	20	87	3233	48	185	22	73.0	95	3	3
ICMH 09507	15	2245	21	87	3632	43	175	24	48.7	130	4	7
ICMH 00401	23	2190	22	84	3296	42	183	25	71.7	143	2	2
ICMH 07024	21	2187	12	130	4033	50	218	25	69.0	90	2	2
ICMH 451	24	2134	13	130	3999	47	205	32	97.0	123	2	6
ICMH 422	22	2114	23	82	3808	50	200	24	79.9	135	7	4
ICMH 07001	22	1895	24	73	3092	47	182	22	65.0	76	2	5
SE _e		252.81			365.02	1.04	7.82	1.28	0.88	7.53	0.05	0.82
SEAK		2586.00			4014.00	43.90	215.13	25.30	68.80	107.30	2.00	4.20
CV(%)		17.69			15.83	3.60	6.30	0.80	22.50	12.30	11.00	33.50
FRATIO		1.01			1.60	10.92	11.98	4.82	3.31	4.42	2.10	4.03
h ₂ ¹		0.21			0.17	0.77	0.79	0.56	0.42	0.52	0.27	0.50
h ₂ ²		0.45			0.33	0.91	0.92	0.79	0.70	0.77	0.52	0.75

h₂¹ first on mean basis, second on plot basis.

Table 5. Summary of performance for PUCMT Loc : BAHYCO Uharif-93

Entry	Entry no.	Grain Yield			Panicle yield kg ha^{-1}	Time to 50% bloom (d)	Plant height (cm)	Panicle length (cm)	Plant count ('000/ha)	Seed count ('000/ha)
		kg ha^{-1}	Rank	% trial mean						
PM 125	11	1597	1	117	3056	54	185	22	49.4	312.3
WBM 164	13	1574	2	114	2523	53	187	18	60.3	216.0
ICRH 90203	3	1551	3	114	2546	53	175	20	67.7	194.7
WBM 163	12	1505	4	111	2361	55	171	19	70.3	264.0
ICRH 90211	1	1435	5	105	5565	55	185	15	54.3	130.3
ICRH 89577	5	1435	6	105	1736	55	165	24	34.3	127.3
PM 02012	10	1389	8	102	2338	54	192	23	67.7	174.3
ICRH 90201	2	1343	10	99	1736	55	168	18	57.0	145.7
ICRH 90216	6	1294	11	95	2047	54	188	17	68.7	233.7
Basdi Hybrid-1	8	1227	12	90	2477	54	190	21	68.0	204.7
ICRH 90203	4	1204	13	89	2199	54	183	21	63.0	167.0
Sagarixant-5	7	1157	15	85	2199	55	128	24	66.0	193.3
Basdi Hybrid-2	9	1088	14	80	1537	54	178	20	70.0	180.7
CHECKS										
ICRH 433	14	1412	7	104	2037	55	177	19	74.3	233.0
ICRH 87003	16	1383	8	102	2523	54	178	17	60.0	179.0
ICRH 451	15	1181	14	87	2776	56	185	21	62.7	209.0
SE:		114.09			309.96	0.42	10.11	1.15	4.12	24.63
MEAN		1361			2279	54.30	175.90	19.80	63.60	194.90
CV (%)		14.50			23.60	1.30	10.00	10.00	11.20	21.70
PM/T10		1.89			2.38	3.85	2.20	3.27	4.35	4.01
h ²		0.23			0.28	0.47	0.29	0.43	0.53	0.50
h ²		0.47			0.54	0.73	0.54	0.69	0.77	0.75

h² First on mean basis, second on plot basis.

Table 4. Summary of performance for PNCART Loc - PIONEER Kharif-90

Entry	Grain Yield			Yield							Ag. Score
	Entry no.	kg ha ⁻¹	Rank	N trial mean	Panicle yield kg ha ⁻¹	Panicle to SPN bloom (d)	Plant height (cm)	Panicle length (cm)	Panicle count ('000/ha)	Head count	
ICMB 90201	2	3850	3	122	5500	52	167	29	191.3	311.3	8
ICMB 90216	8	3792	3	123	5417	53	165	19	186.3	315.3	5
ICMB 90262	3	3617	5	114	5167	53	170	19	180.3	266.7	5
PH 82012	10	3230	6	102	4625	51	170	22	183.3	278.7	4
WBB 188	13	3150	7	98	4500	49	172	20	185.3	283.0	4
WBB 165	12	3150	7	99	4566	54	160	22	182.0	276.7	3
ICMB 90203	4	3121	9	99	4458	51	179	21	179.0	302.7	4
PH 126	11	2946	10	93	4200	50	162	23	175.3	232.3	3
ICMB 90211	1	2946	10	93	4200	52	167	21	181.0	302.0	4
Sevarlana-5	7	2682	12	85	3833	55	120	24	180.7	257.0	3
Wada: Hybrid-1	9	2596	14	82	3700	49	152	20	189.7	304.0	3
Wada: Hybrid-2	8	2392	15	76	3417	54	175	21	177.3	249.3	3
ICMB 8957*	5	2322	16	74	3333	50	150	19	174.7	229.0	3
CHECKS											
ICMB 451	15	4463	1	141	6375	56	170	24	180.0	306.7	6
ICMB W7002	16	3732	4	118	5333	51	170	18	163.7	229.7	5
ICMB 423	14	2655	13	84	3782	55	162	18	180.0	211.3	3
SE:		177.72			252.90	1.15	3.80	0.86	6.93	15.43	0.21
MEAN		3167.00			4523.00	52.00	162.50	20.30	179.00	277.50	3.90
CV(%)		9.70			9.70	3.80	4.00	7.30	6.70	9.70	9.30
PHYSIO		17.15			11.15	3.07	12.28	4.45	0.75	4.07	19.44
b2 ¹		0.77			0.77	0.43	0.79	0.12	-0.09	0.51	0.86
b2 ²		0.91			0.91	0.74	0.32	0.79	-0.24	0.75	0.65

b2: first on mean basis second on plot basis.

Table 7. Summary of performance for PBCAPT Loc :Dew Nandi Seeds Sharif-90

Entry	Entry no.	Grain Yield		Panicle yield kg ha ⁻¹	Time				Plant Head count ('000/ha)	Ag. Score	% of leaf covered	
		kg ha ⁻¹	St trial mean		to 50% bloom (d)	Plant height (cm)	Panicle length (cm)	Plant count				
ICNH 90216	6	2493	1	138	3163	49	184	19	104.7	139.0	3	8
ICNH 90201	6	2228	2	119	3265	56	202	25	100.3	100.0	1	10
NBR 165	12	2163	4	115	2893	49	167	24	106.7	182.7	3	8
NBR 166	13	3060	5	110	3000	67	184	24	89.7	202.3	3	9
ICNH 90202	3	1979	7	105	2815	50	184	20	109.7	239.3	1	8
ICNH 90211	1	1847	8	100	2381	56	230	21	95.6	156.7	3	8
Nandi Hybrid-1	9	1871	9	100	2003	49	171	25	101.0	184.3	4	9
ICNH 90201	2	1840	10	98	2768	55	213	21	118.3	295.0	6	13
Nandi Hybrid-2	8	1817	11	97	2553	51	197	23	107.6	150.7	3	11
PH 82012	10	1550	13	83	2171	49	174	20	109.7	145.0	6	10
PH 123	11	1518	14	81	2190	52	182	20	108.3	184.3	4	11
Sagarlamu-5	7	1473	15	78	2148	54	177	31	106.7	139.0	6	8
ICNH 89577	5	1275	16	68	1991	43	154	22	108.0	172.3	6	10

CHECKS

ICNH 451	15	2179	3	116	3280	51	195	25	107.0	213.3	2	8
ICNH 87001	16	1994	6	106	3058	49	185	19	116.3	176.3	2	14
ICNH 423	14	1800	12	96	2690	55	192	20	101.3	209.7	3	13

SE:	150.94			251.24	0.85	8.46	0.97	3.78	10.46	0.53	2.01
MEAN	1878			2646	51.3	182.0	23.0	107.0	183.6	3.5	9.9
CV(%)	13.90			16.50	2.90	8.10	7.39	6.10	9.90	25.90	15.00
FRATIO	4.11			2.95	13.28	5.44	10.07	2.07	5.20	7.26	1.02
h ₂ ¹	0.51			0.38	0.79	0.60	0.75	0.25	0.53	0.88	0.01
h ₂ ²	0.75			0.65	0.92	0.82	0.90	0.50	0.81	1.86	0.02

h₂ first on main basis ; second on plot basis

Table 8. Summary of performance for PUCARI Loc : Gujarat Kharif-90

Entry	Entry no.	Grain Yield			Panicle yield kg ha ⁻¹	Time to 50% bloom (d)	Plant height (cm)	Panicle length (cm)	Plant count ('000/ha)	Seed count
		kg ha ⁻¹	Rows	% trial seeds						
NBR 105	12	2172	2	117	4344	46	140	19	82.7	250.3
PH 125	11	2060	3	111	3858	51	153	85	85.3	267.7
ICWR 90202	3	1985	4	107	3783	48	157	21	76.7	307.0
Wandi Hybrid-1	8	1947	5	105	3764	45	169	22	68.7	335.7
ICWR 90211	1	1899	8	97	3315	48	169	24	60.7	241.7
ICWR 90203	4	1798	9	97	3427	47	182	22	98.0	266.0
ICWR 90201	2	1798	9	97	3745	50	195	22	100.7	263.0
Sagarisami-5	7	1760	11	95	3298	50	129	27	102.3	374.0
PH 82912	10	1753	12	94	3558	45	167	22	81.3	348.3
ICWR 90214	6	1723	13	93	3633	48	154	20	84.7	311.0
Wandi hybrid-2	9	1704	14	91	3371	48	170	21	77.7	241.3
NBR 166	13	1648	15	88	3371	45	168	21	92.7	229.7
ICWR 89577	5	1573	18	84	3127	51	162	21	60.0	209.0
CHECKS										
ICWR 451	15	2303	1	124	4289	50	172	19	90.0	334.7
ICWR 87003	14	1910	6	103	3397	45	177	18	83.7	301.0
ICWR 423	14	1854	7	100	3895	51	166	23	79.3	306.7
SE:		174.86			443.76	0.00	5.58	15.75	10.56	34.00
MEAN		1882.00			3573.00	48.00	165.50	25.40	84.43	289.70
CV %:		16.30			21.50	0.0	3.80	107.30	21.70	20.30
PROG:		1.23			1.10					

Table 8. Summary of performance for PHAAPT 1999 across (Bisar, Jodhpur, Jalna, PBF, PLP, Burgapersa & Ludhiana) Ranked on grain yield.

Entry	Entry no	Grain Yield					Time to bloom	
		kg ha ⁻¹	% of Controls		% trial		Mean	Rank
			Rank	Mean	Rank	Mean		
ICWP 86106	23	2400	115	1	117	1	48	18
ICWP 87101	4	2440	113	2	114	2	50	9
ICWV 89116	11	2420	112	3	111	3	46	21
ICWV 89113	8	2400	111	4	108	8	48	18
ICWV 89114	9	2400	111	5	112	3	48	18
ICWV 89117	12	2370	110	6	110	6	49	21
ICWV 89117	13	2370	110	7	109	7	48	22
ICWV 90904	1	2360	109	8	107	9	47	26
ICWV 89111	6	2340	109	9	112	4	48	21
ICWV 90115	10	2240	104	12	104	12	45	33
BCB-IC 902	2	2210	103	13	104	13	49	12
ICWP 87124	5	2200	102	14	101	16	52	5
ICWV 90779	18	2190	102	15	107	10	49	17
ICWV 90931	14	2180	101	16	101	17	49	15
ICWV 89112	7	2170	101	18	103	23	47	28
ICWV 90103	20	2170	100	19	100	21	49	22
ICWV 90114	19	2160	100	20	100	22	47	27
ICWV 89115	10	2150	100	21	99	23	46	23
BCB-IC 901	3	2140	99	22	101	18	47	25
ICWV 88841	25	2130	99	23	101	19	54	2
ICWP 87750	17	2120	99	24	98	24	53	4
ICWP 89823	27	1950	92	25	96	25	51	7
ICWV 90402	15	1960	91	26	90	28	50	10
ICWP 90290	22	1920	89	27	91	27	52	3
ICWV 90113	21	1880	87	28	87	29	46	30
ICWV 88811	24	1860	86	30	91	26	43	17
ICWS 8141	25	1820	84	31	85	30	50	8
ICWP 89680	23	1820	84	32	84	32	55	1
ICWP 88861	28	1520	71	33	71	33	43	13

CHECKS								
ICWV 88908	32	2290	106	10	105	11	48	14
ICWV 87901	21	2270	105	11	101	14	47	24
ICWV 87111	33	2170	101	17	109	19	51	6
ICTP 8203	30	1890	88	29	85	31	47	29

SE ₂	65.2						0.3	
Mean	2150.0						49.0	
SE	0.2						0.5	

SE first on mean basis.

Table 18. Summary of performance for PHMPT 1999 across locations (Hisar, Jodhpur, Jaisal, PAF, PAF, Bargarh & Ledhiana) in order of entries.

Btary	Btary no.	Grain Yield			Yield to bleed			
		kg ha ⁻¹	% of Control	Mean	Mean	Mean		
ICW 90304	1	2380	100	0	107	9	47	25
ICW-IC 932	2	2219	103	13	194	13	49	12
ICW-IC 901	3	2149	93	22	101	18	47	35
ICW 87101	4	2449	113	2	114	2	50	9
ICW 87124	5	2290	102	16	101	16	52	5
ICW 89111	6	2360	109	9	112	4	48	21
ICW 89112	7	2176	101	10	180	23	47	28
ICW 89113	8	2409	111	4	198	8	49	18
ICW 89114	9	2400	111	5	112	3	48	15
ICW 89115	10	2150	100	21	99	21	48	29
ICW 89116	11	2426	112	3	111	5	48	31
ICW 89117	12	2370	110	6	110	6	48	23
ICW 89117	13	2370	110	7	109	7	48	22
ICW 90301	14	2185	101	16	101	17	48	15
ICW 90302	15	1969	97	26	92	28	50	10
ICW 90770	16	2130	102	15	107	10	49	11
ICW 87750	17	2120	93	24	98	24	53	4
ICW 90115	18	2240	104	12	104	12	45	33
ICW 90114	19	2167	107	20	100	22	47	27
ICW 90120	20	2170	100	19	100	21	45	32
ICW 90113	21	1880	87	29	87	29	45	30
ICW 90729	22	1929	89	27	91	27	53	3
ICW 81126	23	2430	115	1	117	1	48	18
ICW 88511	24	1860	86	30	91	26	48	17
ICW 84241	25	2130	93	21	101	15	54	2
ICW 8147	26	1820	84	31	85	30	50	8
ICW 83320	27	1930	92	25	96	25	51	7
ICW 88661	28	1530	71	31	71	31	43	13
ICW 83880	29	1820	84	32	84	32	55	1

CHERCES

ICP 8203	30	1890	86	28	85	31	47	28
ICW 87901	31	2170	105	11	101	14	47	24
ICW 88308	32	2290	106	10	105	11	48	14
ICW 87111	33	2170	101	17	100	19	51	6

SE:	65.2
Mean	2150.0
SE	6.2
Mean	49.0
SE	0.5

h2 first on mean basis.

Table 11. Summary of performance for PHBAPT 1996 across (Bisar, Jodhpur, Jaisal, PHF, PL7, Bargarpara & Ladkiana) Grain yield (kg/ha)

Entry	Grain Yield														
	Entry no	kg ha ⁻¹	Bisar		Jodhpur		Jaisal		PHF		PL7		Bargarpara		
			Bank	Mean	Bank	Mean	Bank	Mean	Bank	Mean	Bank	Mean	Bank	Mean	
ICMP 88106	23	2480	1	115	1	2576	6	1400	4	2709	3	2912	20	3350	11
ICMP 87101	4	2444	2	113	3	2641	4	1301	10	1911	15	2302	4	3260	13
ICMP 89114	21	2421	1	112	3	2500	12	1450	6	3014	1	1957	27	3435	7
ICMP 89113	8	2422	4	112	4	2234	24	1649	1	1506	26	2340	19	3677	3
ICMP 89114	9	2386	5	111	5	2520	4	1516	2	1423	13	2254	6	3305	9
ICMP 89117	12	2375	6	110	6	2590	11	1194	23	2272	7	2459	9	3094	24
ICMP 89117	13	2370	7	110	7	2507	13	1326	21	2534	4	2348	3	3104	23
ICMP 90904	1	2350	8	109	8	2526	9	1200	14	2100	11	2152	11	3552	5
ICMP 89111	6	2350	9	109	9	2231	20	1459	5	2262	8	2265	5	3418	8
ICMP 89115	14	2241	12	104	12	2115	20	1200	15	2001	3	2427	1	3104	19
ICM-IC 902	2	2213	13	103	13	2707	2	1222	20	2328	6	2241	7	3043	27
ICMP 87104	5	2180	14	102	14	2434	16	1100	24	1423	24	2004	17	3256	15
ICMP 89170	16	2193	15	102	15	2720	1	1341	11	1812	20	1993	23	3165	14
ICMP 89901	14	2181	16	101	16	2417	17	1332	13	1961	16	2047	19	3571	4
ICMP 89122	7	2173	18	101	18	2343	13	1439	7	1852	18	2094	14	3148	21
ICMP 89163	20	2167	19	101	19	2453	15	1240	16	2147	10	2351	2	3005	25
ICMP 89114	19	2159	20	100	20	2032	28	1483	3	1762	22	2391	15	3141	22
ICMP 89115	10	2151	21	100	21	2506	14	1383	9	2262	12	2105	12	3420	3
ICM-IC 901	3	2143	22	99	22	2642	3	1255	22	2236	9	2147	10	3161	23
ICMP 88104	25	2123	23	99	23	2554	7	1143	27	1508	25	1866	29	3005	28
ICMP 87750	17	2119	24	98	24	2614	5	1104	23	1424	29	1951	25	3094	26
ICMP 89220	27	1990	25	92	25	2218	23	1317	13	1262	30	1761	31	2823	30
ICMP 89102	15	1964	26	91	26	2179	25	1199	27	1854	17	2010	27	3229	12
ICMP 90200	22	1915	27	89	27	1820	32	959	32	1947	11	1611	32	2643	31
ICMP 89112	21	1894	29	87	29	1934	30	1253	17	1194	32	2181	18	3196	17
ICMP 89121	24	1862	30	86	30	2265	21	1423	8	1331	21	1366	24	2439	32
ICMS 814	26	1828	31	84	31	2087	23	1101	29	1434	23	1677	30	2853	29
ICMP 89800	26	1817	32	84	32	1955	31	884	33	1829	14	1823	29	3208	16
ICMP 88661	29	1572	33	71	33	1526	33	1064	30	1454	28	1141	33	2262	33

GRCSES															
ICMP 88306	32	2294	10	106	10	3111	27	1326	12	2526	5	2220	8	3488	6
ICMP 87901	31	2263	11	105	11	2343	18	1248	18	1793	21	2149	12	3492	1
ICMP 87111	33	2174	17	101	17	2039	10	1170	26	1460	27	2061	22	3394	13
ICMP 8203	30	1892	28	88	28	2213	22	982	31	1171	33	959	26	3282	14

SE _e						129.75		132.54		54.00		129.01		173.79	
Mean		2154				2240.00		1370.00		1946.00		2056.00		3137.00	
CV(%)						11.13		20.90		5.80		13.40		19.90	
h ² ₁						0.46		0.14		0.95		0.32		0.38	
h ² ₂						0.16		0.77		0.23		0.92		0.66	

h² first on mean basis; second on plot basis.

contd....

Table 11. Summary of performance for PHEAPT 1999 across (Hisar, Jodhpur, Jaisal, PHV, PLP, Durgapur & Ludhiana) Grain yield (kg/ha)

Entry	Entry no.	Durgapur		Ludhiana	
		Mean	Rank	Mean	Rank
ICMP 86106	23	3890	6	1429	6
ICMP 87101	4	4033	2	1492	4
ICMV 89116	11	3667	9	909	25
ICMV 89113	8	4667	1	1043	18
ICMV 89114	9	3847	5	1422	8
ICMV 89117	12	3955	3	1393	9
ICMV 89117	13	3733	8	1141	16
ICMV 89904	1	3853	4	1036	19
ICMV 89111	6	3287	16	1458	5
ICMF 90115	18	3100	18	955	22
RCB-IC 902	2	2767	24	1152	15
ICMV 87124	5	3533	11	1216	13
ICMP 89779	14	2600	25	1711	1
ICMV 88901	14	2933	22	1163	14
ICMV 89112	7	3400	14	926	23
ICMV 80103	20	3000	20	870	29
ICMV 80114	13	3567	10	971	21
ICMV 89115	10	2567	37	828	31
RCB-IC 901	3	2480	26	1073	17
ICMV 88841	25	3167	17	1629	2
ICMP 87750	17	3300	15	1350	10
ICMP 89820	27	2933	22	1500	3
ICMV 90902	15	2413	29	765	32
ICMP 90200	22	3000	20	1421	7
ICMV 90113	21	2567	27	893	27
ICMV 88811	24	2387	30	1310	11
ICMS 8141	26	2300	32	987	20
ICMP 89880	29	1993	33	912	24
ICMP 89841	28	2333	31	632	33
CHECKS					
ICMV 88908	32	3430	12	896	26
ICMV 87901	31	3733	8	883	28
ICMV 87111	33	3473	13	1283	12
ICTP 8203	30	2767	24	829	30
SE ₁		336.41		103.74	
Mean		3170		1136	
CV(%)		21.20		18.30	
b2 ¹		0.38		0.60	
b2 ²		0.71		0.86	

b2 first on mean basis; second on plot basis.

Table 12. Summary of performance for PHAAPT 1999 (Seed yield kg/ha)

Entry	Entry no.	Mean				Hjhar		Jodhpur		Jalaa		PPP		PLP	
		kg ha ⁻¹		% trial		Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank
		Rank	Mean	Rank	Mean	Rank	Mean	Rank	Rank	Mean	Rank	Rank	Mean	Rank	Rank
ICMV 09110	11	3649	1	110	1	4107	7	1085	0	3651	1	2300	29	4417	0
BCU-IC 901	2	3610	2	109	2	4080	8	1581	25	3631	2	2932	2	4032	23
ICMP 06106	23	3570	3	108	3	3924	11	1891	4	3170	3	2614	25	4365	12
ICMP 07750	17	3520	5	106	5	4436	2	1536	29	4314	20	2781	6	4405	3
ICMP 07101	4	3520	5	106	5	4244	4	1791	10	4432	15	2776	7	4365	11
BCU-IC 901	3	3520	5	106	5	4247	3	1625	23	4023	8	2795	4	4615	24
ICMV 09111	6	3500	7	106	7	3637	21	1840	8	4024	7	2717	9	4400	5
ICMV 08041	25	3430	8	105	8	4570	1	1447	30	4251	10	2420	29	4457	6
ICMV 09117	13	3400	9	105	9	3937	13	1639	15	5020	5	2817	3	3994	25
ICMV 09115	10	3430	11	104	11	3733	16	1809	9	4543	11	2576	20	4476	4
ICMV 09113	8	3420	13	103	13	3490	23	2039	1	4292	10	2406	27	4710	1
ICMV 07124	5	3420	13	103	13	4257	9	1600	24	4820	13	2662	15	4254	10
ICMV 09115	14	3420	14	103	14	3517	30	1597	14	4330	6	2952	1	4036	32
ICMV 09064	1	3340	16	102	16	3519	26	1445	31	4667	9	2454	14	4415	9
ICMV 09117	12	3300	16	102	16	3995	12	1669	16	4705	9	2848	17	3930	28
ICMV 09112	7	3240	18	101	18	3653	27	1444	7	4432	15	2453	16	4131	19
ICMV 09091	14	3240	18	101	19	3677	19	1917	17	4253	10	2543	23	4457	7
ICMV 09114	9	3220	19	101	19	3850	14	1910	3	3922	27	2704	11	4351	14
ICMP 09480	24	3220	22	99	22	3765	15	1212	32	4549	12	2576	19	4264	15
ICMV 09773	16	3220	24	98	24	4200	5	1729	19	3323	31	2670	12	4219	17
ICMV 09002	15	3220	24	98	24	3709	18	1456	19	4719	22	2564	21	4127	20
ICMV 09103	20	3220	25	97	25	3533	25	1641	22	4214	20	2774	8	3949	29
ICMV 09114	13	3220	26	97	26	3517	27	1922	3	4300	25	2531	18	3987	27
ICMV 09020	27	3140	27	95	27	4120	6	1766	11	3843	29	2214	11	3755	30
ICMS 0141	24	3050	29	92	29	3230	31	1544	29	4275	21	2305	30	3893	28
ICMV 09113	21	3030	30	91	30	3125	32	1562	26	3529	30	2790	5	4046	31
ICMP 09290	22	2900	31	89	31	3422	28	1286	32	4006	25	2075	32	3731	31
ICMV 08011	24	2890	32	87	32	3620	22	1803	5	2963	33	2567	22	3542	32
ICMP 08061	26	1550	33	71	33	2567	32	1552	27	3294	32	1800	33	3474	33
CHECKS															
ICMV 08908	32	3470	10	105	16	3378	23	1747	12	5020	5	2682	12	4226	13
ICMV 07501	31	3300	20	100	20	3710	17	1653	14	3043	29	2704	11	4532	2
ICMV 07111	33	3290	21	99	21	2944	10	1519	10	4379	23	2524	24	4368	10
ICTP 0203	30	3100	28	94	25	3542	24	1306	31	3922	26	2518	26	4293	18
SE _e						170.68		144.15		122.79		162.85		192.30	
Mean		3210.00				3764.05		1679.09		4242.00		2586.30		4171.30	
CV(%)						9.10		17.29		5.70		13.19		9.20	
h ² _e						0.92		0.15		0.85		0.19		0.26	
h ² _p		0.16				0.82		0.42		0.96		0.43		0.52	

h² first on mean basis; second on plot basis.

Table 13. Summary of performance for PBRAPP 1990 across (Binar, Jodhpur, Jalna, PDP, PLP, Burgapora & Ludhiana) Time to 75% bloom

Entry	Entry no.	Across													
		Days		% Trial		Binar		Jodhpur		Jalna		PDP		PLP	
		Root	seas	Root	seas	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank
ICMV 00000	29	56	1	173	1	59	3	59	3	59	4	56	1	50	1
ICMV 00041	25	54	2	110	2	59	2	58	4	50	8	52	2	50	3
ICMV 00260	22	53	3	103	3	60	1	60	1	57	26	50	4	48	3
ICMV 01750	17	52	4	106	4	57	6	54	3	61	1	51	3	47	4
ICMV 01124	5	52	5	107	5	54	4	57	6	59	4	49	7	45	8
ICMV 00020	27	51	7	104	7	51	8	54	10	58	5	43	9	45	10
ICMS 0147	26	50	8	103	8	49	15	57	5	58	12	43	5	45	9
ICMV 07101	4	50	9	103	9	51	9	55	8	57	16	43	7	46	5
ICMV 00002	13	50	10	102	10	50	11	54	12	58	8	48	10	45	7
ICMV 00770	16	49	11	101	11	50	11	54	10	59	2	46	15	44	12
ICMV-IC 902	2	49	12	100	12	49	15	54	11	57	20	47	11	43	13
ICMV 00041	20	49	13	99	13	49	13	50	26	55	30	47	13	39	22
ICMV 03114	9	48	16	99	16	47	21	50	26	57	18	46	17	42	13
ICMV 00001	14	48	16	99	16	52	7	52	17	57	22	46	17	43	10
ICMV 00011	24	48	17	99	17	49	12	51	27	58	8	47	14	42	24
ICMV 00113	8	48	19	99	19	47	18	53	13	58	9	46	20	42	22
ICMV 04106	23	48	19	99	19	48	17	52	19	57	16	47	13	43	15
ICMV 00115	10	48	20	99	20	46	24	53	15	58	11	46	24	41	20
ICMV 00111	6	48	21	98	21	48	16	52	20	58	12	46	20	42	25
ICMV 00117	12	48	22	98	22	44	32	53	15	55	30	46	20	44	12
ICMV 00117	12	48	23	98	23	46	22	52	19	54	25	46	23	41	15
ICMV-IC 901	3	47	25	96	25	44	25	51	24	56	22	46	24	41	28
ICMV 00004	1	47	26	95	26	46	24	51	22	56	24	45	23	43	15
ICMV 00114	19	47	27	96	27	44	32	50	27	57	18	46	24	42	23
ICMV 00112	7	47	29	92	29	45	27	50	30	55	30	46	24	41	28
ICMV 00113	21	46	30	95	30	46	24	49	32	58	12	46	23	41	26
ICMV 00116	11	46	31	94	31	45	27	49	32	53	32	46	23	41	28
ICMV 00102	20	46	32	93	32	44	30	50	23	55	27	46	21	39	23
ICMV 00119	18	45	33	91	33	41	33	50	25	52	33	46	22	39	22
CRUCES															
ICMV 07111	33	51	6	104	6	54	9	55	7	59	12	49	7	45	7
ICMV 00008	32	48	14	99	14	47	19	53	15	55	28	46	17	43	18
ICMV 07001	31	47	24	97	24	47	21	51	24	55	27	44	31	43	27
ICTP 0203	30	47	29	95	29	44	28	49	32	56	24	45	25	42	22
SD ₂						1.51		0.94		0.1*		0.58		3.64	
Mean		49				49.00		53.00		57.00		47.00		43.00	
CV(%)						6.30		3.60		1.30		2.40		2.30	
h ₂ ¹						0.71		0.71		3.86		0.83		0.81	
h ₂ ²		0.48				0.91		0.91		0.95		0.95		0.95	

h₂¹ first on mean basis; second on plot basis.

contd....

Table 13. Summary of performance for PHEAPT 1990 across (Bisar, Jodhpur, Jalna, PBF, PLP, Burgapara & Ludhiana) time to 75% bloom.

Entry	Entry no.	Burgapara		Ludhiana	
		Mean	Rank	Mean	Rank
ICMP 89880	29	55	1	53	2
ICMV 89841	25	54	2	48	19
ICMP 90290	22	50	5	47	26
ICMP 87750	17	47	12	44	15
ICMV 87124	5	48	7	50	1
ICMV 89820	27	50	4	43	3
ICMS 8141	25	46	16	49	3
ICMP 87201	4	47	12	48	11
ICMV 90902	15	43	9	47	31
ICMP 90770	16	43	22	43	5
RCB-IC 902	2	45	14	49	19
ICMP 88861	28	52	3	43	13
ICMV 89114	9	48	9	48	11
ICMV 90991	14	42	26	47	25
ICMV 88821	24	43	24	49	5
ICMV 89113	8	44	21	48	15
ICMP 86106	23	44	23	47	25
ICMV 89115	10	46	18	42	11
ICMV 89111	6	42	25	48	11
ICMV 89117	13	47	12	49	19
ICMV 89117	12	44	20	48	11
RCB-IC 901	3	45	19	47	25
ICMV 90904	1	41	30	46	33
ICMV 90104	19	41	32	49	11
ICMV 89112	7	43	24	49	19
ICMV 90113	21	41	33	47	28
ICMV 89116	11	42	27	47	31
ICMV 90102	20	41	33	47	31
ICMV 90115	18	40	31	47	26
CHECKS					
ICMV 87111	33	47	10	43	7
ICMV 88908	32	43	5	47	26
ICMV 87901	31	46	16	47	25
ICTP 8233	30	41	23	43	19
SE _e		0.37	0.75	46	48
CV(%)		1.60		3.10	
b2 ¹		0.96		0.67	
b2 ²		0.33	0.23		

b2 first on mean basis; second on plot bas.s.

Table 14. Summary of performance for PURAPT 86 PHT

Entry	Entry no.	Grain yield		Head yield kg ha^{-1}	Time					Ag. score	
		kg ha^{-1}	% trial mean		to 75% bloom (d)	Plant height (cm)	Ear length (cm)	Plant count (10-3 ha)	Head number		
ICMV 89111	34	2430	1	110	2921	47	185	24	74	129	5
ICMV 89115	18	2410	2	115	2952	44	187	22	71	132	5
ICMV 89116	39	2370	3	113	2876	46	190	25	70	124	5
ICMV 89113	36	2360	4	113	2876	46	189	24	70	129	5
ICMV 90103	20	2350	5	113	2774	44	186	21	71	121	6
ICMV 89117	13	2350	6	112	2817	46	191	24	72	122	4
ICMP 87101	4	2300	7	110	2776	49	202	24	74	111	6
ICMV 89112	8	2270	8	108	2717	46	193	23	75	130	6
ICMV 89114	9	2250	9	108	2704	46	194	23	69	114	5
NCU-IC 902	2	2240	10	107	2732	47	195	23	76	121	5
ICMV 89114	37	2230	12	107	2718	46	184	24	75	122	5
ICMV 89117	12	2210	13	106	2648	45	187	24	75	120	4
ICMV 89115	38	2200	14	105	2660	46	182	22	75	119	4
NCU-IC 901	3	2180	15	105	2795	45	182	22	75	127	5
ICMV 89924	1	2150	16	103	2655	45	185	23	75	104	4
ICMV 89117	40	2110	18	101	2586	47	195	22	76	117	4
ICMV 89115	10	2100	19	101	2576	45	192	24	76	115	5
ICMV 89112	7	2090	20	100	2653	45	192	24	72	116	5
ICMV 90124	19	2090	21	100	2591	45	182	22	72	121	6
ICMV 90991	14	2090	22	100	2543	46	192	20	76	111	6
ICMV 87124	5	2080	23	100	2653	49	203	24	72	103	6
ICMV 89113	21	2080	24	100	2790	44	188	22	72	123	6
ICMV 89113	8	2060	25	99	2486	46	194	25	70	111	5
ICMP 85106	23	2030	26	97	2518	47	184	21	74	130	6
ICMV 89113	33	2020	27	97	2596	45	188	25	76	127	4
ICMV 90902	15	2010	28	96	2564	43	194	20	68	102	5
ICMP 90770	16	1990	30	95	2670	46	191	26	73	104	5
ICMV 88811	24	1970	31	94	2547	47	178	21	82	166	5
ICMP 87750	17	1960	32	94	2781	51	208	25	62	99	7
ICMV 89116	11	1960	34	94	2380	45	181	25	68	114	6
ICMV 89841	25	1890	35	92	2420	52	185	23	70	95	6
ICMP 89880	29	1820	36	87	2576	56	220	23	70	83	6
ICMS 8141	26	1820	37	87	2305	49	178	24	70	112	7
ICMP 89820	27	1780	38	85	2216	48	182	21	76	140	5
ICMP 90200	22	1600	39	77	2075	50	229	25	69	87	6
ICMP 88861	28	1340	40	64	1800	47	172	20	73	168	7
Controls											
ICMV 83908	32	2230	11	107	2663	45	188	22	69	107	4
ICMV 87901	31	2150	17	103	2704	44	187	22	72	111	5
ICMV 87111	33	2000	29	96	2324	49	193	24	76	106	5
ICTP 8203	30	1960	33	94	2518	45	183	21	74	106	5
SE _t		125		164	0.5	4.1	0.9	2.6	7.4	0.5	
Mean		2090		2615	47	191	23	73	117	5	
CV(%)		12		13	2	4	9	7	13	18	

Table 15. Summary of performance for PHEAPT 90 PLP (Physiology)

Entry	Entry no.	Grain yield		Seed yield kg ha ⁻¹	Time to 75% bloom (d)	Head count (10-3 ha)	
		kg ha ⁻¹	% trial				
ICMV 89113	8	3690	2	114	4710	42	215
ICMV 89114	37	3630	3	113	4549	42	205
ICMV 89115	10	3620	4	112	4476	41	197
ICMV 89116	31	3600	5	111	4498	42	219
ICMV 90901	14	3570	6	111	4457	43	157
ICMV 90904	1	3550	7	110	4415	43	167
ICMV 89116	11	3440	9	106	4417	41	212
ICMV 89111	6	3420	10	106	4460	42	215
ICMV 89114	9	3380	11	105	4291	43	187
ICMP 87101	4	3370	12	104	4365	46	185
ICMV 89117	49	3360	13	104	4280	44	207
ICMP 86106	23	3160	14	104	4355	43	243
ICMV 89113	36	3330	15	103	4295	42	193
ICMV 90902	15	3330	16	103	4127	45	161
ICMV 89115	38	3310	17	102	4259	42	193
ICMV 87124	5	3260	20	101	4255	45	193
ICMV 89112	35	3260	21	101	4197	42	196
ICMV 89111	34	3230	22	100	4156	42	198
ICMP 89880	29	3210	23	99	4254	50	113
ICMV 90113	21	3200	24	99	4046	41	201
ICMP 90770	16	3180	25	98	4219	44	192
ICMV 90115	18	3160	26	98	4026	39	208
ICB-IC 901	3	3160	27	98	4315	41	158
ICMV 89112	7	3150	28	97	4131	41	181
ICMV 90114	19	3140	29	97	3987	42	208
ICMV 89117	13	3100	30	96	3998	44	182
ICMV 89117	12	3090	31	96	3990	43	200
ICMV 90103	20	3080	32	95	3843	33	177
ICMP 87750	17	3060	33	95	4445	47	178
ICB-IC 902	2	3060	34	95	4322	43	187
ICMV 88841	25	3010	35	92	4457	50	188
ICMS 8141	26	2860	36	83	3893	45	213
ICMP 89820	27	2820	37	87	3755	45	273
ICMP 90200	22	2650	38	82	3731	48	170
ICMV 88811	24	2440	39	76	3542	42	246
ICMP 88861	28	2360	40	73	3414	39	385
Controls							
ICMV 87901	31	3630	1	114	4592	43	152
ICMV 88908	32	3490	8	108	4325	43	152
ICMV 87111	32	3300	18	102	4364	45	186
ICMP 8203	30	3280	19	102	4203	42	155
SE ₁		166			180	0.6	9.0
Mean		3230			4202	42.0	199.0
CV(%)		10			9	3.0	9.0

Table 10. Summary of performance for PHRAPT 90 Jalna

Entry	Entry no.	Grain yield			Seed yield kg ha^{-1}	Time to 75% bloom (d)	Plant height (cm)	Ear length (cm)	Plant count (10-3 ha)	Head number	Ag. score
		kg ha^{-1}	Best	3 trial mean							
ICNV 00114	11	3010	1	156	5451	52	100	23	144	242	2
ICNP 00106	23	2710	2	142	6176	57	146	19	136	249	3
ICNV 00115	16	2660	3	139	4900	52	137	22	147	253	3
ICNV 00117	13	2530	4	133	5020	55	141	22	137	226	3
ICV-IC 902	2	2330	6	122	5431	57	142	19	131	202	5
ICNV 00117	12	2270	7	119	4700	56	135	21	137	170	5
ICNV 00111	6	2260	8	119	4024	50	123	24	144	193	5
ICV-IC 901	3	2240	9	117	4023	54	101	19	132	200	4
ICNV 00103	20	2150	10	112	4314	55	145	18	105	159	5
ICNV 00904	1	2100	11	110	4567	54	109	22	164	210	5
ICNV 00115	10	2060	12	100	4549	56	101	22	124	167	5
ICNP 00200	22	1950	13	102	4000	57	209	19	120	157	5
ICNP 00003	29	1940	14	102	4545	59	162	24	133	153	6
ICNP 00101	4	1910	15	100	4422	57	130	22	125	157	5
ICNV 00901	14	1860	16	90	4353	57	153	21	122	165	5
ICNV 00902	15	1850	17	97	4118	55	143	20	118	163	5
ICNV 00112	7	1850	18	97	4432	55	177	24	140	192	5
ICNV 00114	9	1820	19	95	3902	57	148	16	80	147	4
ICNP 00770	16	1910	20	95	3333	59	171	23	120	165	5
ICNV 00114	19	1760	22	92	4000	57	117	23	106	171	5
ICNS 0141	25	1620	23	86	4275	58	142	19	116	137	5
ICNV 07124	5	1620	24	85	4510	59	153	23	124	147	5
ICNV 00041	25	1510	25	79	4353	58	102	22	114	130	8
ICNV 00113	8	1510	26	79	4392	58	177	23	108	137	6
ICNP 00001	28	1450	28	76	3294	55	152	22	125	145	4
ICNP 07750	17	1420	29	75	4314	61	109	20	116	157	5
ICNP 00020	27	1380	30	71	3043	58	160	24	134	102	5
ICNV 00011	24	1230	31	65	2863	58	153	19	142	251	5
ICNV 00112	21	1200	32	63	3529	58	154	19	121	150	6
Controls											
ICNV 00908	32	2550	5	132	5020	55	158	19	134	173	3
ICNV 07001	31	1790	21	94	3043	55	153	20	125	166	5
ICNV 07111	23	1470	27	77	4079	58	158	22	135	131	5
ICYP 0201	30	1770	33	61	3922	56	150	20	149	220	5
SE _e		78		174	0.5	2.7	0.5	6.5	10.3	0.4	
Mean		1910		4342	57.0	159.0	21.0	126.0	163.0	5.0	
CV(%)		7		7	2.0	3.0	4.0	9.0	10.0	15.0	

Table 17. Summary of performance for PHAAPT 1990 Louisiana

Entry	Entry no.	Grain Yield			Panicle weight (g)	Time to 50% bloom (d)	Plant height (cm)	Panicle length (cm)	Ear Girth (cm)	Tiller No.	Days to maturity	DM %	Regret %	Sout %
		by ha ⁻¹	Row	% trial mean										
ICWF 90770	16	1710	2	130	2507	60	140	10	0.03	1.70	00	0.00	4.07	2.70
ICWF 90843	25	1930	3	143	3167	60	160	20	0.30	1.47	00	0.17	5.93	1.93
ICWF 90920	37	1500	4	132	3000	60	175	10	7.30	1.00	00	0.00	3.02	1.07
ICWF 91001	4	1430	5	131	3067	60	191	22	7.47	1.47	07	0.17	1.47	5.47
ICWF 91111	6	1470	6	129	2867	60	180	21	7.30	1.53	07	0.00	3.07	3.60
ICWF 90100	22	1430	7	125	2500	67	160	20	7.17	1.40	00	0.30	3.00	0.60
ICWF 90900	33	1430	8	125	2630	67	180	21	0.30	1.50	00	0.00	0.07	10.60
ICWF 93114	9	1420	9	125	2607	60	180	20	7.47	1.40	00	0.00	3.00	7.60
ICWF 93117	12	1390	10	122	2530	68	160	10	7.17	1.00	00	0.00	0.07	2.47
ICWF 92750	17	1350	11	119	2700	60	150	21	0.17	1.47	00	0.00	3.00	2.00
ICWF 93011	24	1070	12	115	3000	69	130	21	7.30	1.00	00	0.00	0.00	9.10
ICWF 93204	5	1220	14	107	2500	50	195	22	7.30	1.47	00	0.00	3.00	3.07
ICWF 93301	14	1140	15	102	3100	47	175	21	7.07	1.00	00	0.00	3.00	0.07
NCB-10-900	2	1150	16	100	2630	60	190	10	7.70	1.47	00	0.00	1.07	3.00
ICWF 93117	12	1140	17	100	2610	48	155	20	7.67	1.50	07	0.17	0.00	7.10
NCB-10-901	3	1070	19	94	1967	67	147	10	7.30	1.40	07	0.00	4.00	4.30
ICWF 93113	8	1040	20	90	2400	40	170	20	7.67	1.30	00	0.00	3.40	3.00
ICWF 93004	1	1040	20	90	2100	48	170	10	7.67	1.07	00	0.00	3.00	2.50
ICWF 93111	25	990	22	87	2407	49	155	21	7.47	1.40	04	0.00	1.07	2.07
ICWF 93114	10	970	23	85	2357	43	152	10	0.30	1.50	00	0.00	3.00	0.00
ICWF 93115	10	950	24	80	2100	47	146	10	7.07	1.07	00	0.00	3.00	3.17
ICWF 93112	7	920	25	80	2500	40	170	10	7.70	1.00	00	0.00	3.00	0.10
ICWF 93000	20	910	26	80	1900	50	186	20	7.17	1.00	07	0.00	1.10	2.40
ICWF 93116	11	910	26	80	2067	47	174	21	0.30	1.00	00	0.07	0.10	3.00
ICWF 93112	21	890	29	70	2300	47	184	20	0.10	1.00	07	0.00	0.10	4.00
ICWF 93101	20	870	31	70	1907	47	141	17	7.50	1.47	00	0.00	0.00	1.70
ICWF 93115	10	830	32	70	2300	40	175	10	7.40	1.47	00	0.00	3.07	1.50
ICWF 90900	15	770	34	60	2067	47	190	10	0.70	2.07	07	0.00	0.00	12.10
ICWF 90861	20	630	35	50	2100	40	190	20	0.00	1.47	06	1.00	4.07	2.00
CHECKS														
CHECK 3	36	1000	1	105	3050	52	170	20	7.50	1.50	00	0.00	10.40	5.10
ICWF 91111	20	1200	10	112	2500	49	160	10	0.10	1.07	07	0.00	0.00	4.20
CHECK 1	34	1120	10	90	2457	51	180	20	7.00	1.07	00	0.00	4.40	2.00
ICWF 90900	32	800	20	70	2000	47	187	10	0.30	1.00	00	0.00	1.40	4.50
ICWF 97001	31	800	20	70	1767	47	160	20	7.30	1.47	00	0.00	1.40	4.00
ICWF 92001	30	800	20	70	2167	40	170	10	7.07	1.47	00	0.00	1.00	2.00
CHECK 2	35	620	35	50	1400	40	130	20	7.50	1.40	00	0.00	0.40	3.10
SUMMARY														
SE		148.51		374.11	1.02	11.06	1.56	0.50	0.74	0.35	0.09	2.47	2.42	1.60
MEAN		1140.00		2446.00	48.17	170.10	19.90	7.04	1.50	07.72	0.00	3.00	4.10	12.30
CV%		20.20		21.50	3.70	11.70	14.40	11.20	10.10	0.70	254.40	111.60	93.50	21.90
PHYTLO		4.30		2.44	1.20	1.40	0.77	1.34	1.00	0.75	1.00	0.97	1.10	1.47
h2 ¹		0.50		0.32	0.09	0.14	-0.00	0.10	-0.20	-0.40	0.40	-0.00	0.00	0.10
h2 ²		0.77		0.50	0.22	0.20	-0.20	0.25	-0.30	0.74	-0.04	0.00	0.00	0.10

h2¹ on plot basis; h2² on mean basis

Table 18. Summary of performance for PWRAPT 99 HIRAR

Entry	Entry no.	Grain yield			Head yield (kg ha ⁻¹)	Time				Ag. score	
		kg ha ⁻¹	5 trial	8 trial		to 10% bloom (d)	Plant height (cm)	Bar length (cm)	Plant count (10-3 ha)		Seed number
ICMV 89111	34	2790	1	117	4296	47	228	27	80	115	6
ICMP 89776	16	2730	2	115	4280	50	232	31	64	97	5
ICB-IC 802	2	2719	3	114	4088	49	228	26	83	109	6
ICMV 89114	27	2700	4	113	4145	47	228	27	71	99	5
ICB-IC 901	3	2640	5	111	4347	44	222	25	75	108	6
ICMP 87101	4	2640	6	111	4264	51	241	28	70	100	6
ICMP 87750	17	2610	7	110	4495	57	237	28	87	92	8
ICMV 89116	39	2580	8	109	3853	49	226	25	72	104	6
ICMV 89115	38	2580	9	108	3996	45	225	28	79	110	5
ICMP 86198	23	2580	10	108	3934	48	217	27	72	117	7
ICMV 89117	40	2560	11	108	3890	52	244	28	81	100	6
ICMV 88841	25	2550	12	107	4570	59	240	25	81	100	6
ICMV 89114	9	2530	13	106	3850	47	223	24	72	111	6
ICMV 88804	1	2530	14	106	3519	48	229	23	70	91	6
ICMV 89117	12	2510	16	106	3905	46	239	27	78	108	4
ICMV 89116	11	2510	17	106	4107	45	226	25	66	94	5
ICMV 89117	13	2510	18	105	3897	44	236	29	84	107	5
ICMV 89115	10	2510	19	105	3733	46	230	24	71	100	5
ICMV 90103	20	2480	20	103	3533	44	215	26	70	98	5
ICMV 87124	5	2450	21	103	4257	58	248	28	66	89	6
ICMV 89901	14	2420	22	102	3677	52	227	23	70	108	7
ICMV 89111	8	2320	24	98	3833	48	219	25	80	108	6
ICMV 89112	7	2320	25	98	3622	45	225	28	76	102	5
ICMV 89112	35	2320	26	98	3907	48	220	25	76	101	6
ICMV 89113	36	2320	27	98	3732	50	219	26	76	101	6
ICMV 88811	24	2270	28	95	3620	49	228	24	78	153	7
ICMP 89820	27	2220	30	93	4130	51	229	27	84	141	6
ICMV 89123	8	2210	31	92	3408	47	241	28	58	78	4
ICMV 89802	15	2180	32	92	3709	50	228	22	67	92	6
ICMV 90115	18	2110	33	89	3337	41	206	27	78	104	6
ICMV 90114	19	2090	35	88	3517	44	233	26	74	107	6
ICMS 8141	36	2030	36	85	3230	49	220	28	71	138	7
ICMV 86113	81	1930	37	84	3135	46	204	31	69	94	6
ICMP 89880	29	1960	38	82	3765	59	267	23	70	72	7
ICMP 80200	22	1820	39	77	3432	60	263	25	70	81	8
ICMP 88361	28	1540	40	65	2667	49	234	24	80	138	8
Controls											
ICMV 87111	31	2510	15	106	3944	54	257	27	79	102	6
ICMV 87901	31	2380	23	100	3710	47	211	26	68	93	6
ICMP 8203	30	2150	29	95	3542	44	203	23	73	91	5
ICMV 88908	32	2110	34	89	3578	47	206	24	75	90	6
SE _e		140			184	1.5	6.4	1.1	4.4	6.8	0.5
Mean		2380			3799	49.0	229.0	26.0	73.0	103.0	6.0
CV(%)		12			10	6.0	6.0	9.0	12.0	13.0	16.0

Table 10. Summary of performance for PURAPT 90 Jodhpur

Entry	Entry no.	Grain yield		Yield		Plant height (cm)	Str height (cm)	Plant count (10-3 ha)	Seed number	Early vigour	Dry fodder yield (t/ha)	
		kg ha ⁻¹	% trial mean	Seed yield kg ha ⁻¹	to 750 bloom (t)							
02128PM	40	1000	1	145	8492	93	199	30	27	64	2	3.3
ICMV 00113	8	1050	2	127	2099	53	224	26	20	47	3	3.0
SP0024	47	1040	3	127	2092	51	190	26	25	46	2	3.0
ICMV 00114	9	1520	4	117	1510	50	200	26	27	45	2	3.3
ICMV 00114	10	1490	5	115	1952	50	219	25	27	48	4	3.0
CCP 06	44	1400	6	114	1924	52	225	25	27	50	2	3.0
ICMV 00106	23	1400	7	112	1991	52	210	26	27	54	3	3.2
ICMV 00117	6	1460	8	112	1840	52	222	27	27	45	2	3.1
ICMV 00116	11	1400	9	112	1005	43	220	28	27	43	2	3.4
ICMV 00112	7	1440	10	111	1043	50	210	27	27	43	3	3.0
ICMV 00011	24	1420	11	110	1000	51	210	24	27	44	3	3.0
ICMV 00115	30	1410	12	109	1042	52	211	27	27	42	3	2.8
ICMV 00111	24	1410	13	108	1010	52	217	28	27	43	3	2.8
CCP 07	45	1430	14	100	1922	55	224	27	26	47	3	3.0
ICMV 00110	39	1300	15	107	1031	54	214	28	26	40	3	3.2
CCMP 2	03	1380	16	107	1709	51	215	25	27	73	5	3.2
ICMV 00115	10	1300	17	106	1000	52	216	26	26	41	3	3.4
ICMV 07101	4	1300	18	106	1791	55	223	28	27	62	3	3.7
007P	46	1350	19	104	1000	50	210	27	27	60	3	3.5
ICMV 00770	16	1340	20	103	1729	54	229	28	27	36	3	3.2
ICMV 00020	27	1320	22	101	1700	54	222	25	27	60	4	3.5
CCN 059	02	1310	23	101	1923	57	140	23	27	53	2	2.9
ICMV 00004	1	1290	24	99	1043	51	210	24	27	37	3	2.7
ICMV 00115	10	1290	25	99	1001	50	202	24	27	43	4	2.7
ICMV 00113	36	1280	26	99	1702	53	217	27	27	30	2	2.7
ICMV 00117	49	1270	27	98	1690	54	216	29	27	30	2	2.8
ICMV 00103	20	1260	28	97	1641	53	214	28	25	30	3	2.4
ICMV 00112	31	1250	29	97	1502	45	209	24	27	41	4	2.5
ICMV 00001	14	1230	31	95	1457	52	201	23	27	37	3	2.8
RCW-IC 902	2	1230	32	95	1501	54	217	20	26	39	3	3.0
ICMV 00112	35	1230	33	94	1695	53	217	20	27	37	3	2.7
ICMV 00117	13	1230	34	94	1600	53	224	29	27	40	3	3.0
RCW-IC 901	3	1230	35	94	1625	51	202	25	27	39	3	2.7
ICMV 00002	15	1200	36	92	1650	54	226	25	27	36	3	3.2
ICMV 07124	5	1200	37	92	1600	57	212	29	26	36	3	3.3
ICMV 00117	12	1190	38	92	1009	52	226	27	27	38	3	3.3
ICMV 00114	37	1170	40	90	1500	52	205	25	27	40	2	3.0
ICMV 00041	25	1150	41	88	1647	58	202	27	27	39	2	3.5
ICMV 07750	17	1100	42	85	1530	50	224	21	26	34	3	4.0
ICMVS 0141	26	1100	43	85	1544	57	200	26	26	41	4	2.8
ICMV 00061	28	1070	44	82	1550	50	217	25	27	60	3	4.1
ICMV 00200	22	960	46	74	1200	60	231	20	27	35	3	3.9
ICMV 00000	29	800	47	60	1212	59	219	25	27	29	2	4.0
CCB 43	42	050	48	66	1292	49	172	23	27	71	3	3.9

contd...

Table 13. Summary of performance for PHARPT 30 Jodhpur

Entry	Entry no.	Grain yield			Head yield kg ha ⁻¹	Time to 75% bloom (d)	Plant height (cm)	Bar length (cm)	Plant count (10-3 ha)	Head number	Early vigour	Dry fodder yield (t/ha)
		kg ha ⁻¹	Straw kg ha ⁻¹	Stalk kg ha ⁻¹								
Controls												
ICMV 8898	32	1239	21	102	1747	53	219	24	26	39	3	2.6
ICMV 8790	31	1250	30	96	1653	51	199	26	26	36	3	2.3
ICMV 87111	33	1180	39	91	1519	55	216	27	27	37	3	3.5
ICTP 8203	30	989	45	76	1306	63	187	23	27	32	2	1.9
SE ₂		135			147	0.9	4.6	0.9	0.9	3.4	0.3	0.3
Mean		1309			1723	52	212	24	27	45	3	3.1
CV(%)		21			17	3	5	7	4	15	25	18.5

Table 20. Summary of performance for PUSAFT 1990 Bangalore.

Entry	Entry no.	Grain Yield			Time to 50% bloom (d)	Plant height (cm)	Plant population number ('000/ha)	Head
		kg ha ⁻¹	Rank	S trial mean				
ICMV 09113	0	4670	1	147	44	212	47	146
ICMP 07101	4	4010	2	126	47	211	56	141
ICMV 09117	12	3950	3	125	44	237	59	166
ICMV 09114	9	3850	4	121	48	243	62	161
ICMV 09094	1	3850	4	121	41	226	45	167
ICMP 06106	23	3800	6	120	44	203	41	112
ICMV 09117	13	3730	7	116	47	246	47	159
ICMV 09116	11	3670	9	116	42	199	48	155
ICMV 09114	19	3570	10	113	41	202	46	137
ICMV 07124	5	3530	11	111	40	220	50	143
ICMV 09112	7	3400	14	107	43	205	54	161
ICMP 07750	17	3300	15	104	47	256	62	169
ICMV 09111	6	3290	16	104	42	196	48	168
ICMV 08041	25	3170	17	100	54	227	55	138
ICMV 09115	18	3100	18	98	40	219	46	142
ICMV 09103	20	3000	19	95	41	223	47	168
ICMP 00200	22	3000	19	95	50	264	51	147
ICMV 09091	14	2920	21	92	42	205	49	167
ICMP 09020	27	2920	21	92	50	199	52	167
ICB-IC 902	2	2770	23	87	46	211	47	170
ICMP 00770	16	2600	25	82	43	218	50	129
ICMV 09115	10	2570	26	81	46	218	50	136
ICMV 09113	21	2570	26	81	41	199	43	143
ICB-IC 901	3	2480	28	78	45	200	44	157
ICMV 09092	15	2470	29	76	43	223	50	160
ICMV 08011	24	2390	30	75	43	195	51	205
ICMP 08061	29	2320	31	74	52	192	51	181
ICMS 8141	26	2300	32	73	46	205	43	145
ICMP 09080	29	1990	33	63	55	237	60	135

CHECKS

ICMV 07901	31	3730	7	116	46	187	45	163
ICMV 08908	32	3480	10	110	49	201	47	147
ICMV 07111	33	3470	13	103	47	181	43	176
ICMP 0203	30	2770	23	87	41	201	52	139

SE ₂	475.75			0.51	11.56	3.53	14.34
MSAN	3170.00			46.00	214.00	50.00	158.00
CV(X)	26.00			1.90	9.30	12.40	15.90
FRATIO	1.71			55.56	2.97	2.48	2.22
b ₂ ¹	0.19			0.95	0.40	0.33	0.29
b ₂ ²	0.42			0.98	0.66	0.63	0.55

b₂¹ on plot basis; b₂² on mean basis

Table 21. Summary of performance for PHLAPP 1990 (DR, PS, PP, PLP) (BASE WIS)

Entry	Entry no	Grain Yield				Seed yield (t/ha)		Time to bloom		Plant height (cm)		Plant pop. ('000/ha)		Seed numb ('000/ha)	
		kg ha ⁻¹	% of		Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank
			Controls	Rank											
ICMP 03410	10	3220	112	1	111	1	4550	1	47	7	204	0	97	10	144
ICMV 08101	2	3130	109	2	107	3	4505	3	49	3	216	3	109	2	146
ICMV 07313	3	3100	106	3	108	2	4514	2	50	2	200	6	107	3	145
ICMV 00752	5	3050	106	4	105	4	4373	4	48	6	211	5	98	9	131
ICMV 00753	6	3010	105	5	103	5	4203	5	46	12	193	13	101	5	145
ICMP 00470	8	2950	103	6	101	6	4506	6	46	13	206	11	91	14	145
ICMV 00751	4	2930	102	8	102	6	4175	8	47	10	203	9	101	6	130
ICMV 07124	1	2890	100	9	100	9	4101	10	47	8	202	10	99	7	153
ICMP 07753	9	2880	100	10	98	10	4213	7	49	4	213	4	83	13	153
ICMP 07430	11	2680	97	12	97	12	3931	12	49	5	229	2	84	10	122
ICMP 00770	7	2580	90	13	84	13	3776	13	45	14	192	14	94	11	141
ICMP 00450	12	2420	84	14	81	14	3757	14	56	1	236	1	104	8	134
CHBC15															
ICMV 04400	13	2950	102	7	102	7	4216	6	47	11	199	12	110.0	1	153
VC 75	14	2810	98	11	96	11	3994	11	47	8	207	7	98.0	4	147
SE _e		87.4					196.4		0.1		3.1		2.5		0.6
Mean		2930.0					4179.0		48.0		203.0		106.0		143.0
SE		0.1					0.2		0.7		0.5		0.2		0.3

SE - on mean basis

Table 21. Summary of performance for PHILIPP 1990 (Der. P85, P97, P17) (TUBAT 0122)

Entry	Entry no	Grain yield				Head yield (kg/ha)		Time to bloom		Plant height (cm)		Plant pop. ('000/ha)		Head number ('000/ha)		
		kg ha ⁻¹	# of Controls	No/1	# trial mean	No/1	No/1	Days	Days	Mean	No/1	Mean	No/1	Mean	No/1	
																Mean
ICW 07134	1	2090	100	9	100	9	4101	10	47	8	303	10	99	7	153	2
ICW 08101	2	3130	109	2	107	3	4505	3	49	3	316	3	109	2	146	6
ICW 07313	3	3100	100	3	100	2	4514	2	50	2	208	6	107	3	145	7
ICW 00751	4	2930	102	0	102	6	4175	9	47	10	203	9	101	0	134	16
ICW 00752	5	3050	106	4	105	4	4313	4	48	6	211	5	98	9	131	12
ICW 00753	6	3010	105	5	103	5	4262	5	45	12	192	13	101	5	144	4
ICW 00770	7	2580	99	13	99	13	3776	13	45	14	192	14	94	21	143	9
ICW 00470	8	3950	102	6	101	8	4100	8	46	13	230	11	91	16	145	6
ICW 07750	9	2080	100	10	99	19	4213	7	49	4	213	4	92	13	133	11
ICW 09410	10	3220	112	1	111	1	4550	1	47	7	204	0	97	10	144	0
ICW 07330	11	2680	97	12	97	12	3930	12	49	5	229	2	94	12	122	13
ICW 00350	12	2420	84	14	83	14	3757	14	56	1	226	1	104	4	114	14
CBCLES																
ICW 04400	13	2910	102	7	102	7	4216	6	47	11	198	12	110	1	150	1
WC-CPS	14	2810	98	11	96	11	3994	11	47	8	207	7	98	0	147	3
SE _e		87.4					108.4		0.3		3.1		2.5		0.6	
Mean		2920.0					4179.6		48.0		208.0		100.0		140.0	
SE		0.2					0.2		0.7		0.5		0.2		0.3	

SE - on mean basis

Table 23. Summary of performance for PULAPT 1990 (Grain yield kg/ha)

Entry	Entry no.	Across											
		N trials				Bhavnagar		PDS		PDT		PLP	
		kg ha ⁻¹	Rank	mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank
ICMP 89410	10	3220	1	151	1	3013	4	4221	3	2674	1	2950	1
ICMV 89161	2	3130	2	108	2	3320	1	4182	2	2407	7	2565	6
ICMV 87313	5	3100	3	107	3	3293	2	3804	10	2636	3	2774	4
ICMV 90752	5	3050	4	105	4	2730	9	4125	4	2527	4	2804	3
ICMV 90753	6	3010	5	104	5	3100	3	4003	5	2405	8	2350	11
ICMP 99470	8	2950	7	102	7	2553	12	4138	3	2394	9	2726	5
ICMV 90751	4	2930	8	101	8	2650	11	3669	12	2523	5	2807	2
ICMV 87124	1	2930	9	100	9	2870	7	3083	11	2476	6	2524	7
ICMP 87723	9	2880	10	99	10	2913	5	4050	6	2233	11	2367	10
ICMP 87030	11	2690	12	92	12	2765	8	3250	8	2195	12	2513	8
ICMP 90770	7	2540	13	89	13	2360	14	3713	9	2157	13	2034	13
ICMP 88850	12	2450	14	82	14	2473	12	3283	12	2110	14	1797	14
CHECKS													
ICMV 84400	12	2950	7	102	7	2710	10	3915	7	2665	2	2492	9
MC C75	14	2810	11	97	11	2907	6	3731	8	2251	10	2336	12
SE _e						173.36		194.24		124.16		154.62	
Mean		2300.00				2428.00		3023.00		2403.00		2529.00	
CV(%)						12.20		10.10		10.30		12.22	
h ² ₁						0.32		0.28		0.25		0.45	
h ² ₂		0.23				0.65		0.61		0.53		0.76	

h²₁ on plot basis; h²₂ on mean basis

Table 26. Summary of performance for PHEAPT 1990 (Dead yield kg/ha)

Entry	Entry no.	Across						Dhavaningar		PDS		PDP		PLP	
		kg ha ⁻¹		S trial		Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank
		Rank	Mean	Rank	Mean										
ICM 00410	10	4560	1	100	1	8153	4	8370	1	3727	1	3370	1		
ICM 07313	3	4510	2	100	2	8733	1	4730	10	3677	3	3017	2		
ICM 00101	2	4500	3	100	3	8403	2	8324	2	3604	4	3534	6		
ICM 00752	5	4310	4	103	4	4730	11	8104	5	3471	6	3067	4		
ICM 00753	8	4260	5	102	5	8170	3	8226	3	3315	10	3340	10		
ICM 07750	9	4210	7	101	7	8043	5	4917	7	3606	5	3204	11		
ICM 00670	6	4190	8	100	8	4510	13	8194	4	3285	11	3755	5		
ICM 00751	4	4180	9	100	9	4657	12	4730	9	3337	7	3000	3		
ICM 07124	1	4100	13	98	10	4903	6	4001	11	3323	9	3435	8		
ICM 07030	11	3940	12	94	12	6910	7	4524	14	3214	12	3506	7		
ICM 00770	7	3700	13	90	13	4303	14	4741	8	8130	13	2910	13		
ICM 00853	12	3762	14	93	14	4743	10	4761	12	3342	8	2743	14		
CHECKS															
ICM 04400	13	4220	6	101	6	4750	9	4374	6	3701	2	3438	9		
WC C75	14	3950	11	95	11	4330	6	4675	12	3135	14	3234	12		
SE _e						206.18		234.53		123.70		200.11			
Mean		4155.00				4317.00		4861.00		3424.00		3520.00			
CV _y %						8.40		9.70		7.62		11.80			
s _e ¹						0.36		0.33		0.24		0.25			
s _e ²		0.13				0.63		0.63		0.47		0.58			

s_e¹ on plot basis; s_e² on mean basis

Table 25. Summary of performance for PULAPT 1990 Time to 75% bloom

Entry	Entry no.	Across											
		S trial			D'angar		PDS		PSP		SLP		
		Days	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	
ICMV 87124	1	47	9	98	9	45	9	48	8	49	10	46	10
ICMV 88191	2	49	3	100	3	47	4	50	2	51	4	49	3
ICMV 87313	3	50	2	104	2	49	2	50	3	52	2	49	2
ICMV 90751	4	47	10	98	10	46	7	48	9	49	12	46	11
ICMV 90752	5	48	6	101	6	47	4	49	6	50	8	49	4
ICMV 90753	6	46	12	96	12	45	10	47	13	49	9	45	13
ICMV 90773	7	45	14	93	14	42	14	45	14	47	14	44	14
ICMV 90470	8	46	13	96	13	44	13	47	13	48	13	45	12
ICMV 87750	9	49	4	102	4	47	5	50	5	51	6	48	5
ICMV 89410	10	47	7	99	7	44	11	49	7	50	6	47	8
ICMV 87830	11	49	5	101	5	46	6	50	5	51	5	47	4
ICMV 88850	12	56	1	116	1	54	1	53	1	52	1	53	1
ICMV 84430	13	47	11	97	11	45	8	47	11	49	12	46	10
MC 075	14	47	8	93	8	44	12	47	10	50	9	47	7
SE _t						0.57		0.39		0.39		0.53	
Mean		49				46.00		48.00		50.00		47.00	
CV(%) ¹						2.50		1.60		1.50		2.30	
h ² ₁						0.85		0.86		0.96		0.80	
h ² ₂		0.76				0.95		0.96		0.93		0.94	

¹ on plot basis. h²₂ on mean basis

Table 26. Summary of performance for PULAPT 1990 Ploak height (cm)

Entry	Entry no.	Across				D'agor		PDS		PDP		PLP	
		Height	Rank	N. trial		Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank
				mean	Rank								
ICMV 87134	1	282	10	93	10	183	7	232	8	189	12	201	9
ICMV 88191	2	214	3	104	3	203	3	245	4	201	4	214	7
ICMV 87313	3	288	6	109	6	199	4	239	9	199	7	204	11
ICMV 88792	4	283	9	98	9	189	9	226	12	192	10	215	8
ICMV 88752	5	211	5	102	5	140	10	248	3	201	5	216	4
ICMV 88753	6	193	13	95	13	181	8	219	14	182	14	192	13
ICMP 88776	7	182	14	92	14	167	14	223	13	186	13	190	14
ICMP 88476	8	220	11	96	11	169	13	227	10	190	11	215	6
ICMP 87758	9	213	4	102	4	185	6	243	5	235	3	218	3
ICMP 88418	10	204	8	98	8	178	11	236	6	198	8	206	10
ICMP 87838	11	229	2	119	2	214	1	253	2	228	2	231	1
ICMP 88850	12	236	1	112	1	211	2	266	1	237	1	238	2
ICMV 84400	13	199	12	96	12	175	12	227	11	194	9	201	12
MC C75	14	207	7	99	7	188	5	232	7	199	6	210	8
SE _e						6.20		5.75		3.82		7.24	
Mean		228				187		236		200		211	
CV(%)						6.60		4.92		3.82		6.97	
s ₂ ¹						9.52		6.52		6.76		6.31	
s ₂ ²		0.53				9.82		9.82		6.82		6.86	

s₂ - on mean basis

Table 27. Summary of performance for PHLAPT 1990 PHF

Entry	Entry no.	Grain yield		Seed yield kg ha ⁻¹	Time to 75% bloom (d)	Plant height (cm)	Har- vest height (cm)	Plant count (10-3 ha)	Seed number (10-3 ha)	Ag. score
		Kg ha ⁻¹	Σ Trial mean							
ICMP 08410	10	2670	1 111	3727	50	190	24	72	126	6
ICMV 07313	3	2640	3 110	3677	52	199	29	75	122	6
ICMV 06752	5	2530	4 105	3471	50	201	30	77	111	6
ICMV 06751	4	2520	5 105	3297	49	192	29	73	122	5
ICMV 07124	1	2400	6 102	3223	49	189	24	70	136	6
ICMV 08101	2	2470	7 102	3600	51	201	24	77	121	7
ICMV 06753	6	2410	8 100	3319	49	182	27	74	119	6
ICMV 06470	8	2390	9 99	3285	48	190	25	72	137	6
ICMP 07750	9	2330	11 93	3606	51	205	26	63	122	6
ICMP 07030	11	2190	12 91	3814	51	220	27	67	104	6
ICMV 06770	7	2100	13 90	3139	47	186	27	72	128	6
ICMP 08050	12	2120	14 88	3342	63	217	35	70	96	9
Controls										
ICMV 04400	13	2660	2 111	3702	43	194	27	74	143	6
MC C75	14	2250	10 93	3135	50	199	26	74	130	7
SE ₁		124		130	0.4	3.8	1.2	2.3	4.5	0.4
Mean ^a		2410		3424	50.0	200.0	27.0	73.0	124.0	6.0
CV(%)		10		8	2.0	4.0	9.0	6.0	7.0	13.0

Table 23. Summary of performance for PHLAPT 30 PLP

Entry	Entry no.	Grain yield			Head yield kg ha ⁻¹	Time to 75% blossom (d)	Plant height (cm)	Plant count (10 ³ ha ⁻¹)	Head number	Ag. score
		kg ha ⁻¹	Rank	% trial mean						
ICMP 09410	10	2370	1	110	3975	67	206	106	135	6
ICMV 00751	4	2039	2	115	3500	66	215	100	133	4
ICMV 00752	5	2020	3	112	3060	68	210	100	145	5
ICMV 07213	3	2760	4	119	3094	69	204	112	137	4
ICMV 00470	8	2730	5	106	3755	65	215	100	130	5
ICMV 00101	2	2560	6	102	3595	64	214	137	121	7
ICMV 07124	1	2520	7	100	3430	68	209	104	140	5
ICMP 07020	11	2510	8	100	3530	67	221	99	123	8
ICMV 07750	9	2370	10	94	3204	68	210	101	124	5
ICMV 00753	6	2360	11	94	3363	65	192	106	139	6
ICMV 00770	7	2100	12	81	2949	61	197	100	126	7
ICMV 00350	12	1030	14	71	2704	55	239	110	115	8
Controls										
ICMV 04400	13	2430	3	99	3461	66	221	114	125	6
MC 075	14	2340	12	82	3204	67	210	98	122	5
SE*		106			140	0.5	7.0	3.3	9.1	0.5
Mean		2510			3205	67.0	211.0	105.0	123.0	6.0
CV(%)		4.1			4.0	0.7	3.0	2.9	7.0	0.8

Table 25. Summary of performance for PULAPT 90 PB2

Entry	Entry no.	Grain yield			Seed yield kg ha ⁻¹	Time to 75% bloom (d)	Plant height (cm)	Ear length (cm)	Plant count (10-3 ha)	Seed number
		kg ha ⁻¹	Rank	mean						
ICWP 89410	10	4220	1	310	5376	49	338	34	70	159
ICWP 88101	2	4180	2	109	5224	50	245	20	98	150
ICWP 99470	8	4140	3	100	5194	47	227	26	80	155
ICWP 90752	5	4120	4	108	5184	49	248	31	80	126
ICWP 90753	6	4090	5	107	5226	47	219	20	91	161
ICWP 87750	9	4000	6	104	4917	50	243	29	75	143
ICWP 90770	7	3710	9	97	4741	45	223	28	87	170
ICWP 87313	3	3680	10	96	4730	50	230	20	90	147
ICWP 87124	1	3680	11	96	4681	48	232	25	87	153
ICWP 90751	4	3670	12	96	4738	48	228	29	86	151
ICWP 88850	12	3290	13	86	4161	53	260	25	91	119
ICWP 87830	11	3260	14	85	4124	50	253	28	72	127
Controls										
ICWP 84400	13	3920	7	102	4974	47	227	27	94	162
MC C75	14	3730	8	97	4679	47	232	26	92	162
SE _e		194			227	0.4	5.7	1.1	6.1	6.2
Mean		3820			4851	48.0	236.0	28.0	86.0	150.1
CV(%)		10			10	2.0	5.8	8.0	14.0	8.6

Table 30. Summary of performance for PULAPY 96 Bhavanisagar

Entry	Entry no.	Grain yield			Seed yield kg ha ⁻¹	Time to 75% bloss (d)	Plant height (cm)	Str length (cm)	Plant count (10-3 ha)	Seed number	Ag. score
		kg ha ⁻¹	Rank	% trial mean							
ICMV 08101	1	3220	1	117	5493	47	203	24	153	173	6
ICMV 07313	3	3297	2	116	5733	48	198	27	151	168	5
ICMV 00753	6	3189	3	112	5170	45	181	25	134	165	7
ICMP 09410	10	3010	4	106	5153	44	178	25	122	155	6
ICMP 07750	9	2910	5	103	5063	47	185	24	127	144	6
ICMV 07134	2	2676	7	101	4903	45	183	25	120	160	6
ICMP 07830	11	2766	8	97	4910	46	214	26	136	132	7
ICMV 00752	8	2730	9	96	4730	47	180	27	120	142	7
ICMV 00751	4	2650	11	93	4857	46	180	30	135	147	7
ICMV 00470	5	2550	12	90	4510	44	189	23	113	150	7
ICMP 00850	12	2470	13	87	4743	54	211	34	143	129	7
ICMP 00770	7	2363	14	83	4303	42	167	27	114	142	6
Controls											
NC 075	14	2910	6	102	4930	44	188	27	130	162	7
ICMV 04400	13	2710	10	95	4750	45	175	28	166	150	6
SE _e		245			294	0.0	0.0	0.0	0.0	6.9	0.6
Mean		2843			4931	46.0	187.0	26.0	135.0	155.0	7.0
CV(%)		15			10	3.0	0.0	6.0	18.0	10.0	15.0

Table 31. Summary of performance for PHINT at 2 locations (PHF and PSF) Kharif-99

Entry	Entry no	Grain Yield				Seed yield (kg/ha)		Time to 50% bloom		Plant height (cm)		Ear length (cm)		
		Eg ha ⁻¹	% of			Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	
			Control	Rank	Mean									Rank
ICMR 89904	1	2670	111	9	107	5	2495	6	48	1	182	3	24	2
ICMR 90214	2	2550	106	8	102	8	2477	5	46	2	175	5	24	1
ICMR 90215	3	2670	111	6	108	6	2602	2	47	5	160	6	23	4
ICMR 90805	4	2470	103	9	99	9	2325	8	47	2	164	11	21	7
ICMR 90806	5	2300	96	14	93	14	2066	13	46	6	162	12	21	8
ICMR 89908	6	2420	101	11	96	12	2100	11	42	12	162	13	18	14
ICMR 90952	7	2700	115	2	111	2	2370	7	45	9	168	7	22	6
ICMR 90956	8	2380	99	12	95	12	2061	14	41	14	161	14	20	11
ICMR 90957	9	2440	102	10	97	10	2081	12	43	11	175	2	19	13
ICMR 90804	10	2420	101	12	96	11	2184	10	41	13	167	8	20	9
ICMR 90955	11	2740	114	4	108	4	2420	4	47	4	185	10	24	1
ICMR 89901	12	2740	114	3	110	3	2408	3	46	6	166	9	22	6
BB 67	13	2340	85	16	80	16	2750	15	37	16	133	15	16	15
ICMR 87002	14	2840	119	1	113	1	2616	1	44	10	174	4	20	11
CNR 89951	15	2130	89	15	85	15	2724	16	49	15	161	15	20	12
ICMR 80380	16	2580	107	7	104	7	2217	9	47	2	174	3	24	13
SD:		138.0					165.0		0.5		4.2			0.7
Mean		2520.0					2253.0		44.0		166.0			21.0
SE		0.1					0.1		0.0		0.5			0.6

SE - on mean basis

Table 32. Summary of performance for PHWT Loc: PHF Kharif-90

Entry	Entry no.	Grain Yield			Panicle yield (kg ha ⁻¹)	Tillage to 10% bloom (d)	Plant height (cm)	Panicle length (cm)	Plant count ('000/ha)	Seed count	Visual uniformity	FS reaction
		kg ha ⁻¹	Rank	% trial mean								
ICWR 90955	11	2372	1	120	4052	48	155	22	79	107	5	4
ICWR 90980	6	2326	3	102	3748	44	155	18	85	157	5	5
ICWR 90216	3	2908	4	107	3063	48	160	23	93	157	8	2
ICWR 90952	7	2830	5	104	3569	45	160	22	77	163	8	5
ICWR 90961	12	2026	6	104	3610	45	157	21	76	127	8	5
ICWR 90904	1	2772	7	102	3635	43	166	24	81	133	6	5
ICWR 90904	10	2745	8	101	3545	43	162	21	89	147	8	3
ICWR 90214	2	2728	9	100	3808	44	163	24	86	142	8	5
ICWR 90957	9	2685	10	98	3290	44	164	19	76	132	8	7
ICWR 90995	4	2690	11	95	3554	43	159	20	74	181	5	3
ICWR 90934	8	2582	12	95	3310	43	164	19	73	161	3	5
ICWR 90400	5	2338	16	82	3024	47	150	20	85	147	8	4
CHECKS												
ICWR 87003	14	3211	2	114	4016	46	165	21	77	125	8	2
HRB 67	13	2508	13	92	3291	38	150	17	90	275	2	2
ICWR 89991	15	2450	14	90	3027	41	162	23	99	184	4	4
ICWR 80000	18	2347	15	86	3090	43	163	24	83	120	8	4
SE _c		165.72			198.32	0.47	0.46	0.81	4.81	10.42	1.03	0.79
MSM		2723.00			3823.00	45.30	156.50	20.80	81.20	154.70	5.70	4.10
CV(%)		10.52			9.40	1.09	4.90	6.70	10.30	11.70	31.20	33.80
PRATIO		2.93			2.87	36.50	4.86	7.34	1.83	13.01	2.50	3.07
h2 ¹		0.33			0.34	0.92	0.55	0.87	0.24	0.80	0.33	0.41
h2 ²		0.85			0.65	0.97	0.75	0.86	0.48	0.92	0.43	0.67

h2 first on mean basis, second on plot basis

Table 13. Summary of performance for PHINT Loc :MH 100 (PLP), Baharif-90

Entry	Entry no.	Grain Yield		Panicke yield kg ha ⁻¹	Time					PS reactio	
		Kg ha ⁻¹	Rank		% trial mean	to 50% bloom (d)	Plant height (cm)	Panicke length (cm)	Plant count (*000/ha)		Head count
ICMH 80952	7	2693	2	117	3107	46	175	23	61	129	5
ICMH 80951	12	2654	3	116	3267	46	175	22	64	118	3
ICMH 80904	1	2585	4	112	3116	47	198	24	63	108	3
ICMH 80215	3	2424	6	106	3342	46	176	23	70	152	2
ICMH 80214	2	2269	7	103	3149	48	181	24	60	138	5
ICMH 80806	5	2367	8	103	3106	45	175	21	75	157	3
ICMH 80805	4	2344	9	102	3096	46	169	21	54	159	2
ICMH 80957	9	2269	10	99	2973	42	183	19	69	109	7
ICMH 80955	11	2207	11	94	2909	46	175	26	76	140	6
ICMH 80958	8	2171	12	95	2812	38	179	21	67	136	4
ICMH 80804	10	2102	13	92	2764	39	171	20	72	125	4
ICMH 80980	6	1911	14	83	2484	49	170	18	73	96	6
CHECKS											
ICMH 80600	16	2780	1	121	3544	48	195	24	61	124	6
ICMH 87003	14	2492	5	107	3190	42	182	19	70	110	2
ICMH 80951	15	1818	15	79	2427	39	174	19	60	126	5
HHB 6*	13	1571	16	63	2220	36	156	16	74	222	2
SE ₂		222.52			287.19	0.86	7.17	1.16	0.93	11.22	0.89
MEAN		2294.00			2973.00	43.10	175.30	21.20	69.10	134.80	4.10
CV(%)		16.80			15.60	3.42	7.10	9.40	22.40	14.00	37.80
FRAT(10)		2.17			1.87	17.79	3.18	5.25	0.94	7.00	3.62
b2 ¹		0.28			0.23	0.85	0.42	0.59	-3.02	0.08	0.47
b2 ²		0.54			0.47	0.94	0.69	0.81	-0.07	0.07	0.72

b2 first on mean basis, second on plot basis.

Table 34. Summary of performance for PUTCY 1 across 2 locations (PHF & SIKAR) Kharif-90 Grain yield (Kg/ha)

Entry No	Kg/ha		Strial mean		Patachery HP		Nisar	
	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank
4	2470	1	120	1	2090	17	2860	1
2	2450	2	119	2	2370	2	2470	2
6	2410	3	117	3	2270	6	2550	3
12	2340	5	114	5	2310	3	2380	6
17	2340	6	114	6	2240	7	2440	4
10	2290	7	112	7	2300	5	2290	9
18	2280	8	111	8	2350	1	2200	15
19	2250	9	109	9	2090	15	2400	8
11	2210	10	108	10	2160	13	2260	10
7	2200	11	107	11	2150	14	2250	11
30	2170	12	106	12	2090	16	2250	12
14	2150	13	105	13	2230	8	2070	21
8	2150	14	105	15	2180	11	2110	20
1	2150	15	105	14	2300	4	1990	29
20	2140	16	104	16	2190	10	2090	21
9	2140	17	104	17	1870	27	2400	7
3	2120	18	103	18	2220	9	2030	26
5	2110	19	102	19	1990	22	2230	13
16	2100	20	102	20	2020	19	2190	16
15	2100	21	102	21	2180	12	2010	27
29	2090	23	102	23	1990	20	2210	14
24	2030	24	99	24	2010	20	2050	25
13	1990	25	97	25	1900	25	2080	22
22	1980	26	96	26	1810	28	2150	17
21	1970	27	96	27	1900	26	2050	24
27	1960	28	95	28	1780	31	2150	18
25	1890	29	92	29	2000	21	1790	32
26	1830	31	89	31	1800	29	1870	30
23	1770	33	86	33	1920	24	1820	33
28	1650	34	80	34	1710	33	1580	34
32	1150	35	56	35	1370	34	930	35
31	920	36	45	36	1000	35	830	36
35	2360	4	115	4	2300	4	2420	5
36	2090	22	102	22	2070	18	2120	19
33	1860	30	91	30	1710	32	2010	28
34	1830	32	89	32	1790	30	1860	31
SE+					146.5		194.1	
Mean	2050				2020.0		2090.0	
CV(%)					14.5		13.4	

**Table 35. Summary of performance for PHTCMT
1 across 2 locations (PHT & HISAR) Ikarif-90
Seed yield (Kg/ha)**

Entry no	Across		Patancheru HP		Hisar	
	Mean	Rank	Mean	Rank	Mean	Rank
7	3390	2	2840	12	3940	8
4	3387	3	2639	19	4075	4
2	3354	5	3000	1	3627	13
17	3352	6	2931	7	3773	9
6	3343	7	2932	6	3754	11
9	3285	8	2504	29	4067	5
27	3278	9	2446	30	4111	2
23	3275	10	2396	31	4154	1
5	3262	11	2621	22	3904	7
3	3246	12	2333	5	3586	18
15	3243	13	2871	11	3615	14
12	3233	15	2895	10	3581	16
1	3177	16	2985	2	3369	29
10	3164	17	2927	8	3400	25
30	3147	18	2779	16	3515	21
22	3145	19	2612	23	3677	12
19	3137	20	2584	20	3599	15
24	3136	21	2726	17	3545	19
18	3091	22	2933	4	3248	30
21	3076	23	2540	26	3573	17
16	3070	24	2646	21	3494	22
8	3038	25	2783	14	3294	29
26	3006	26	2563	27	3448	23
13	2993	27	2589	24	3398	26
14	2980	28	2891	9	3070	32
29	2963	29	2523	28	3403	24
20	2877	31	2783	15	2971	33
28	2770	33	2322	33	3233	31
23	2686	34	2585	25	2750	34
32	1734	35	1900	35	1589	36
31	1600	36	1531	36	1685	35
35	3264	4	2948	3	3779	8
36	3239	14	2722	18	3756	10
34	2960	30	2363	32	3538	28
33	2829	32	2271	34	3387	27
SE*			151.6		203.2	
Mean	3084		2657.0		3471.0	
CV(%)			11.4		16.3	

Table 30. Summary of performance for PHTCCT 1
across 2 locations (PSP & HISAR) Ebarif-90
Time to 50% flowering

Entry no	Across		Patancheru HP		Hisar	
	Mean	Rank	Mean	Rank	Mean	Rank
31	56	1	56	1	55	3
23	55	2	53	3	57	1
27	54	3	53	5	58	2
5	53	4	53	4	54	6
26	53	6	51	12	55	4
25	52	7	51	9	53	8
3	52	8	52	7	52	9
21	52	9	50	13	54	7
15	52	11	52	6	52	10
24	52	12	49	19	55	4
28	52	13	49	20	55	4
13	51	14	51	10	51	12
22	51	15	49	22	54	6
11	51	15	52	8	51	11
7	51	17	51	12	51	12
1	51	18	50	14	52	11
9	50	20	51	11	50	15
17	49	22	49	21	50	14
19	49	23	49	19	49	18
14	49	24	47	24	49	16
16	49	25	47	23	49	17
6	48	25	47	25	49	17
8	47	27	45	26	48	19
29	47	28	45	32	49	16
32	47	29	45	29	48	19
30	47	30	45	29	48	19
12	45	31	45	27	47	21
10	45	32	45	31	47	21
2	45	33	44	33	48	20
4	46	34	45	30	47	22
18	45	35	43	35	48	20
20	45	36	44	34	46	23
36	53	5	54	2	52	9
33	52	10	50	17	54	5
34	50	19	50	15	51	12
35	49	21	50	16	49	15
SE±			0.4		1.0	
Mean	50		49.0		51.0	
CV(%)			1.8		3.9	

Table 37. Summary of performance for PHTCST
I across 2 locations (PHF & H: SAR) Kharif-99
Plant height (cm)

Entry no	Across		Patancheru HF		Hisar	
	Mean	Rank	Mean	Rank	Mean	Rank
26	227	1	198	1	264	3
24	223	2	182	5	264	2
27	223	3	182	4	263	4
25	220	4	184	2	256	6
21	220	5	174	7	265	1
28	219	6	174	8	263	5
23	214	7	182	3	245	9
13	206	10	172	11	240	12
5	206	11	167	22	244	10
11	206	12	172	12	239	14
14	205	13	170	17	241	11
22	205	14	174	9	238	15
16	204	15	168	21	240	13
8	203	17	171	15	235	18
6	202	18	174	10	230	23
2	201	19	169	20	233	20
15	200	20	166	24	235	17
7	199	21	164	27	234	19
1	197	23	169	19	225	24
9	195	24	153	32	230	22
10	194	25	173	11	216	31
4	194	26	171	14	217	27
12	193	27	170	16	215	32
17	192	28	160	30	221	26
30	191	29	168	25	217	28
29	190	30	153	33	222	25
19	190	31	164	29	216	29
3	189	32	163	31	216	30
18	187	33	167	23	207	33
20	175	34	153	34	192	34
32	172	35	102	35	122	36
31	110	36	92	36	127	35
34	210	8	165	26	255	7
33	209	9	170	18	249	8
36	204	16	175	6	233	19
35	198	22	164	23	231	21
SE*			4.1		8.1	
Mean	198		166.0		229.0	
CV(%)			5.1		7.1	

Table 38. Summary of performance for PUNCT 1 across 2 locations (PWF & HISAH) Kharif-80 Bar length (cm)

Entry no	Across		Patachere HF		HisaH	
	Mean	Rank	Mean	Rank	Mean	Rank
26	29	1	27	1	31	2
27	28	2	24	10	31	1
13	27	3	24	11	31	2
9	27	5	24	12	30	3
24	26	6	25	3	29	7
5	26	7	23	15	29	4
7	26	8	25	8	28	7
28	25	9	26	2	27	11
11	25	11	24	9	29	8
15	25	12	24	7	27	9
3	25	13	24	13	28	8
14	25	14	23	16	27	9
25	25	15	25	5	25	15
1	25	16	24	8	26	14
23	25	18	22	27	28	6
10	25	19	23	17	27	10
21	25	20	22	20	27	9
22	25	21	24	14	26	14
19	24	22	22	25	27	12
4	24	23	22	21	26	13
8	23	25	22	23	25	17
16	22	26	22	22	24	19
17	23	26	22	22	24	19
8	23	27	21	29	25	18
2	23	28	21	28	24	20
18	23	29	23	32	25	18
12	22	30	22	26	23	23
30	22	31	21	30	23	21
20	22	32	21	31	23	22
31	20	33	19	33	23	24
29	19	34	17	35	21	25
32	18	35	18	34	18	26
36	27	4	25	4	29	5
34	26	10	22	19	30	3
33	25	17	22	24	28	7
35	24	24	23	18	25	16
SE±				0.7		1.5
Mean		24		22.0		25.0
CV(%)				8.5		11.4

Table 33. Summary of performance for PHTCOT 1 Loc :PMP Kharif-96

Entry	Entry no.	Grain Yield		Yield										VSS	PS react.
		kg ha ⁻¹	ha ⁻¹	Panicle yield	to 50%	Plant height	Panicle length	Panicle girth	Plant count	Seed count	Total straw	Dry straw			
		kg ha ⁻¹	ha ⁻¹	kg ha ⁻¹	(t)	(cm)	(cm)	(cm)	(1000/ha)	(kg/ha)	(kg/ha)				
ICMR 89372	18	2350	1	117	2923	43	167	20	10	77	120	6903	2623	0	5
ICMR 90502	2	2330	2	116	2689	44	163	21	9	76	119	7501	2292	7	5
ICMR 90510	12	2310	3	114	2885	46	170	22	9	81	119	7473	2636	0	4
ICMR 90401	1	2304	4	114	2945	50	169	24	0	86	122	8234	2786	5	6
ICMR 90500	19	2300	5	114	2927	45	173	23	5	91	110	8432	1873	6	5
ICMR 90504	4	2270	7	113	2352	47	174	22	9	82	116	7817	2761	0	3
ICMR 89470	17	2245	0	111	2331	49	163	23	9	87	112	8155	2535	5	6
ICMR 903072	34	2230	0	111	2691	47	170	23	0	86	103	7345	2612	7	3
ICMR 894121	3	2220	10	110	2923	52	163	24	0	86	110	8476	2823	5	5
ICMR 89512	20	2190	11	109	2783	44	159	21	10	85	126	5874	1803	0	6
ICMR 90506	8	2185	12	108	2783	46	171	21	9	90	102	7657	2315	7	4
ICMR 903811	15	2180	12	108	2871	52	166	24	0	88	119	10245	3102	9	3
ICMR 90409	11	2160	14	107	2832	52	172	24	0	82	116	8314	2674	0	4
ICMR 90505	7	2150	15	106	2840	51	164	25	0	90	121	8555	2494	5	4
ICMR 90411	19	2090	17	104	2644	49	164	22	9	84	107	7591	2423	6	5
ICMV 88908	30	2090	17	104	2779	45	166	21	11	84	107	8251	2295	9	2
ICMR 894122	4	2030	17	103	2839	45	171	22	9	76	107	8405	2061	0	6
ICMR 905813	16	2020	20	102	2646	47	169	22	9	78	113	7053	2179	9	3
ICMV 84400	24	2010	21	100	2728	49	162	25	9	76	113	8305	3002	9	2
ICMP 87703	25	2000	22	99	2386	51	164	25	0	87	106	7970	2620	9	0
ICMR 90503	5	1930	23	99	2621	52	167	23	0	85	122	8218	2713	5	3
MSDC TCG1-C2	29	1900	24	98	2523	45	159	17	10	81	113	5419	1748	6	2
ICMP 88506	23	1920	25	95	2545	53	182	22	9	77	102	8743	3255	0	2
ICMR 903071	13	1900	26	94	2589	51	172	24	7	80	113	8176	3226	7	4
ICMP 89410	21	1900	26	94	2523	50	174	22	9	82	106	8364	2746	9	2
ICMR 90507	9	1870	23	93	2504	51	159	24	0	89	113	8613	2238	7	4
ICMV 87402	22	1813	29	90	2612	43	174	24	9	80	109	7438	2423	0	2
ICMV 82132	28	1800	30	89	2563	51	190	27	0	87	108	8217	2780	9	2
ICMP 87307	27	1730	32	88	2445	53	182	24	0	83	103	8437	3236	0	2
ICMV 81111	25	1710	33	85	2322	49	174	23	3	87	111	8145	2692	5	2
ICMR 88008	35	2300	5	114	2948	50	164	23	9	88	117	8035	2880	1	6
ICMR 451	36	2070	19	103	2722	54	175	25	9	90	119	10717	3244	0	3
ICMV 8440	34	1790	31	83	2323	50	165	22	9	84	114	7908	2513	0	2
MC-075	33	1710	33	85	2271	50	170	22	9	82	108	8241	2700	9	2
8428	32	1370	35	68	1900	45	162	18	0	89	131	5365	1365	2	3
818	31	1000	36	50	1531	56	92	19	7	108	128	7823	2100	2	2
SE ₂		146.50			151.61	0.43	4.25	0.73	0.31	3.51	5.96	650.35	212.52	0.75	0.5
HRAN		2020.00			1857.00	49.00	166.00	23.00	9.00	84.00	114.00	7750.00	2521.00	7.00	3.5
CV(%)		14.50			11.4	1.8	5.1	6.5	4.80	0.30	10.4	16.8	16.90	21.40	31.4
h ₂ ²		0.57			0.39	0.98	0.30	0.77	0.84	0.46	0.26	0.50	0.65	0.73	0.7
h ₂ ²		0.73			0.74	0.98	0.35	0.87	0.31	0.62	0.42	0.66	0.79	0.84	0.7
BPP(%)		95.00			103.00	101.00	101.00	101.00	107.00	100.00	101.00	100.00	102.00	100.00	97.4
PRATIO		4.00			4.00	58.00	19.00	8.00	13.00	3.00	2.00	3.00	5.80	6.00	6.6

h₂² - Mean basis; h₂² - Plot basis

Table 40. Summary of performance for PUTCUT-1 Loc: B1548 (Kharif-90)

Entry	Grain Yield			Yield										VOS	Lodging %
	Entry no.	Kg ha ⁻¹	Rank	% Total yield	Panicle yield (kg ha)	to 50% bloom (d)	Plant height (cm)	Panicle length (cm)	Panicle girth (cm)	Plant count ('000/ha)	Head count	Straw yield (kg ha)	Dry straw yield (kg ha)		
ICRH 904122	4	2860	1	127	4075	47	217	86	10	73	115	14190	2874	3	6
ICRH 90902	3	2570	2	123	3627	40	233	84	11	65	91	13753	2452	5	5
ICRH 90904	6	2550	3	122	3754	43	230	86	10	66	94	13261	2630	4	8
ICRH 90970	17	2440	4	117	2771	50	221	84	10	74	100	14143	3370	4	4
ICRH 90971	19	2400	6	115	3590	40	216	87	9	75	96	12470	2856	3	7
ICRH 90987	9	2400	6	115	4067	50	220	80	9	73	96	12690	2647	4	5
ICRH 90910	12	2340	8	114	3661	47	215	83	9	70	110	14268	2762	4	6
ICRH 90940	10	2290	9	110	3400	47	214	87	10	74	101	14025	2523	4	7
ICRH 90989	11	2260	10	100	4090	51	229	88	9	83	100	12750	2876	4	4
ICRY 80960	30	2250	11	100	3515	48	217	83	11	60	84	12030	5450	4	9
ICRH 90995	7	2250	11	100	2940	51	234	88	9	80	100	12300	2395	4	4
ICRH 90903	5	2230	13	107	3904	54	244	89	9	77	100	14999	4095	5	4
BSRC TCPP1-C2	23	2210	14	106	3403	49	222	81	11	67	85	11025	2820	3	4
ICRH 90972	14	2200	15	105	3240	49	207	88	11	61	85	10924	2800	4	5
ICRH 903012	16	2190	16	104	3494	49	240	84	9	72	92	13323	2799	7	7
ICRY 87402	22	2150	17	103	3477	54	236	86	10	66	89	12099	3724	5	8
ICRP 87307	27	2150	17	103	4111	50	262	81	9	59	99	17000	5466	8	7
ICRH 90906	8	2110	20	101	3294	48	225	85	9	60	91	14306	3516	4	7
ICRH 90912	20	2090	21	100	2371	46	193	83	11	60	96	11479	3251	5	7
ICRH 903071	13	2080	22	99	3280	51	240	81	8	70	93	14190	2706	4	7
ICRH 903072	14	2070	23	99	3070	49	241	87	10	60	80	12359	2200	6	6
ICRP 89410	21	2050	24	98	3573	54	265	87	10	71	89	14399	4090	7	5
ICRY 84400	24	2050	24	98	3545	53	264	88	10	70	89	16240	4615	6	5
ICRH 894121	3	2030	26	97	3560	52	216	86	9	76	115	13101	2677	4	8
ICRH 903011	15	2010	27	96	3415	52	235	87	9	79	100	15635	4447	6	6
ICRH 90901	1	1990	28	95	3369	52	225	86	9	68	90	12250	2621	5	6
ICRY 82132	26	1870	30	89	3440	55	264	81	9	67	80	17321	4747	8	6
ICRP 87303	25	1790	32	86	4154	51	256	86	9	77	95	18945	4709	8	4
ICRP 80506	23	1620	33	79	2750	57	245	88	10	56	64	16095	4236	7	4
ICRY 81111	28	1580	34	76	3233	55	263	87	10	63	77	14006	2400	8	8
ICRH 80908	35	1420	5	114	3779	49	231	85	9	67	83	14485	3462	3	6
ICRH 151	36	2120	19	101	2756	52	233	89	8	75	99	14774	4608	5	4
MG-C75	33	2010	27	96	3287	54	249	88	10	56	80	15657	4144	7	5
ICRY 84400	34	1860	31	89	3638	51	256	80	10	71	97	15285	4114	7	4
8420	32	920	35	44	1569	48	122	18	8	61	120	9710	1775	3	4
810	31	820	36	40	1686	55	127	22	8	73	102	11469	2704	2	2
SD		194.00			323.10	0.99	0.20	1.44	0.36	6.42	7.98	1029.60	246.01	0.75	0.91
MEAN		2000.00			2471.00	50.00	220.00	26.10	9.40	60.60	94.70	14016.20	2773.00	4.00	5.40
CV(%)		18.60			16.20	3.90	7.10	11.40	7.60	10.70	16.80	14.70	19.10	20.40	21.80
k ₂ ²		0.60			0.59	0.80	0.87	0.60	0.74	0.33	0.37	0.50	0.54	0.70	0.20
k ₂ ⁴		0.75			0.74	0.89	0.93	0.75	0.85	0.23	0.54	0.73	0.71	0.82	0.47
RFP(%)		101.00			99.40	97.00	103.00	91.00	100.00	93.00	91.00	100.00	94.00	100.00	95.00
PMATLO		4.00			4.00	5.00	15.00	4.00	7.00	1.00	2.00	4.00	3.00	6.00	2.00

k₂³ - Mean basis; k₂⁴ - Plot basis

Table 41. Summary of performance for PUTCAT 1 Loc :PMS Kharif-90

Entry	Entry no.	Grain Yield			Panicle yield Eg ha ⁻¹	Time							VBS	PS
		Eg ha ⁻¹	Rank	% trial mean		to 50% bloom (d)	Plant height (cm)	Panicle length (cm)	Panicle girth (cm)	Plant count ('000/ha)	Head count			
ICRH 90921	12	2556	1	110	3395	31	177	23	10.7	71	90	6	5	
ICRH 90916	42	2592	2	110	3265	31	181	21	11.4	69	106	9	3	
ICRH 90915	6	2494	3	115	3325	49	181	22	10.4	73	112	6	5	
ICRH 90900	20	2479	4	115	3196	50	155	22	8.5	76	128	5	7	
ICRH 90903	30	2479	5	115	3224	45	160	20	10.7	79	113	6	5	
ICRH 90926	17	2444	6	113	3124	44	155	22	9.0	72	150	6	5	
ICRH 90906	25	2410	7	113	3464	50	156	23	9.1	64	130	6	6	
ICRH 90927	10	2400	8	111	3182	49	172	20	10.3	58	132	6	5	
ICRH 90913	37	2402	9	111	3210	52	146	22	9.8	65	131	5	4	
ICRH 904122	2	2392	10	110	3075	46	167	22	9.2	67	113	6	6	
ICRH 90923	13	2369	11	110	3071	53	163	23	8.5	68	124	9	5	
ICRH 90909	24	2363	12	109	3007	48	162	17	10.9	70	118	6	8	
ICRH 90923	14	2337	13	104	2867	46	169	21	9.3	69	114	8	5	
ICRH 90915	29	2320	14	107	3094	49	166	22	11.0	64	96	9	5	
ICRH 90924	15	2295	15	106	3003	50	183	19	10.5	60	105	8	5	
ICRH 90919	9	2281	16	106	3014	40	171	21	10.6	70	100	9	6	
ICRH 90911	35	2200	17	105	2365	44	180	20	9.9	66	110	6	8	
ICRH 90909	33	2235	18	103	2902	45	150	18	8.8	70	149	5	6	
ICRH 904123	3	2220	19	103	2969	51	160	19	10.6	76	107	8	7	
ICRH 90910	34	2216	20	102	2361	51	164	23	9.2	79	116	8	8	
ICRH 90902	29	2207	21	102	2898	44	167	20	9.6	60	120	8	6	
ICRH 90925	16	2202	22	102	2948	51	161	24	8.2	76	132	6	4	
ICRH 90972	33	2199	23	102	2023	44	165	20	9.9	69	107	5	7	
ICRH 90900	32	2189	24	101	2854	44	169	19	8.3	61	166	9	4	
ICRH 90961	27	2180	25	101	2920	49	172	19	11.4	82	122	8	8	
ICRH 90920	31	2170	26	100	2802	46	161	21	8.9	71	114	9	4	
ICRH 90917	41	2167	28	100	2804	40	155	21	9.4	63	109	8	3	
ICRH 90917	8	2161	29	100	2750	45	163	21	9.0	66	114	8	5	
ICRH 90914	38	2157	30	100	2803	45	164	21	9.3	79	107	6	4	
ICRH 902013	21	2137	31	99	2889	51	164	21	10.5	73	121	9	2	
ICRH 90912	36	2136	32	99	2706	47	160	19	10.8	60	104	8	8	
ICRH 90970	32	2121	33	98	2894	49	151	22	8.7	87	119	8	7	
ICRH 90919	10	2094	34	97	2817	53	163	24	8.2	74	123	9	5	
ICRH 90900	26	2090	35	96	2687	46	169	20	10.3	60	116	9	6	
ICRH 90921	45	2070	36	96	2800	50	159	21	10.4	76	101	9	3	
ICRH 90916	40	2051	37	95	2778	54	147	23	8.6	73	119	8	3	
ICRH 90907	31	2047	38	95	2899	53	160	21	7.9	79	142	8	4	
ICRH 90920	44	2026	39	94	2636	46	152	21	9.3	61	120	9	4	
ICRH 902011	19	1967	40	91	2663	54	155	23	8.2	70	121	9	2	

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Table 41. Summary of performance for PHTC 2 Loc: (R) Sharif-90

Entry	Entry no.	Grain Yield			Panicle yield kg ha ⁻¹	Time						YSD	FS
		kg ha ⁻¹	ha/ha	% trial mean		to 50% bloom (d)	Plant height (cm)	Panicle length (cm)	Panicle girth (cm)	Plant count ('000/ha)	Head count		
ICMR 90914	5	1900	41	91	2556	47	103	21	9.2	89	110	0	5
ICMR 90812	20	1907	42	91	2504	48	106	21	9.4	86	127	0	4
ICMR 90421	7	1955	43	90	2693	52	152	23	8.4	87	131	0	6
ICMR 90024	48	1953	44	92	2678	46	177	19	10.1	86	124	0	3
ICMR 90916	9	1936	47	85	2457	53	152	22	8.1	74	102	0	5
ICMR 90913	4	1925	49	84	2405	53	160	20	8.3	77	125	0	5
ICMR 90022	46	1953	50	91	2438	51	158	22	7.0	72	142	0	3
ICMR 90019	43	1926	51	87	2402	53	160	22	8.6	81	135	0	2
ICMR 90023	47	1909	52	79	2354	43	154	21	9.4	75	157	0	3
ICMR 88000	51	2169	27	109	2869	51	158	23	8.9	76	127	5	5
ICMR 451	32	1929	45	89	2576	56	163	23	8.3	79	122	5	3
MC-676	49	1920	46	89	2672	51	162	23	4.7	80	125	0	3
ICMR 84490	56	1835	48	85	2495	52	168	23	9.0	72	112	0	2
SE _e		143.08			171.83	0.73	5.93	0.75	0.26	5.86	9.34	0.98	0.71
ME _{SW}		2762.70			2167.00	48.90	162.19	21.30	9.43	71.89	126.20	7.53	4.99
CV ₃		11.99			10.40	2.60	8.38	6.30	4.80	14.20	19.50	22.80	25.50
PR _{HTC}		2.10			2.42	19.53	1.94	5.16	19.69	1.16	2.41	1.95	5.72
h ₂ [*]		0.87			0.32	0.86	0.24	0.54	0.82	0.05	0.32	0.24	0.61
h ₂ ^{**}		0.52			0.59	0.05	0.48	0.07	0.94	0.14	0.53	0.43	0.83

h₂ First on mean basis, second on plot basis.

Table 41. Summary of performance for PUTCW-3 Loc :BISAB GRABIP-90

Entry	Entry no.	Grain Yield			Panicle yield Kg ha ⁻¹	Time							
		Kg ha ⁻¹	Haat	% trial		Le PAN bloom (d)	Plant height (cm)	Panicle length (cm)	Panicle girth (cm)	Plant count ('000/ha)	Head count	Visual suffer.	Lodg- ingT
ICWR 90010	02	2010	1	127	4542	53	236	26	12.5	63	89	5	0
ICWR 90015	05	2776	2	125	4222	46	207	20	11.0	68	74	2	2
ICWR 90020	11	2054	3	120	3933	47	212	25	8.6	36	61	5	2
ICWR 90000	25	2615	4	110	3922	50	223	27	10.0	66	95	5	7
ICWR 90070	32	2501	5	116	3605	44	203	26	9.2	70	76	4	3
ICWR 90022	13	2572	6	114	3668	52	223	24	8.2	62	67	4	5
ICWR 90027	16	2545	8	115	4010	51	237	24	12.0	49	76	7	6
ICWR 90021	12	2543	9	115	4120	54	250	25	10.3	65	81	6	5
ICWR 094123	2	2542	10	115	3726	46	196	25	10.0	60	96	4	3
ICWR 90018	40	3480	12	112	3984	50	235	22	10.2	53	96	5	6
ICWR 90010	34	2408	13	111	3077	49	215	25	10.0	56	92	4	5
ICWR 90019	10	2398	14	100	3632	47	226	20	7.0	62	94	5	3
ICWR 90015	6	2350	15	100	3736	55	248	25	12.3	60	96	8	4
ICWR 903012	20	2172	16	107	3678	45	215	23	10.0	60	103	5	5
ICWR 90002	29	2340	17	106	3500	42	200	25	11.2	52	94	4	3
ICWR 90003	30	2335	18	105	3458	47	220	23	14.2	62	84	4	2
ICWR 90014	4	2329	19	105	3626	50	223	20	8.3	81	100	5	7
ICWR 90007	31	2322	20	105	3690	49	232	27	8.7	44	102	6	4
ICWR 90017	41	2321	21	105	3553	48	246	25	10.0	46	90	5	6
ICWR 903013	21	2297	22	104	3616	54	267	25	11.0	63	75	6	4
ICWR 90013	57	2280	23	102	3623	46	205	23	8.8	57	107	3	3
ICWR 90026	17	2280	24	102	3297	43	202	23	10.2	70	101	4	3
ICWR 90027	45	2200	25	102	3274	50	217	23	10.3	43	72	7	3
ICWR 90014	5	2247	26	101	3402	45	222	26	10.0	70	84	4	3
ICWR 90023	14	2244	27	101	3153	48	212	23	8.0	61	81	6	3
ICWR 90019	47	2222	28	100	3556	48	212	26	8.7	75	103	4	4
ICWR 90016	7	2204	29	99	3296	47	222	25	8.3	67	95	4	5
ICWR 90024	15	2197	30	99	3434	52	223	24	10.5	47	93	6	5
ICWR 90025	16	2135	31	95	3415	50	218	27	9.5	47	97	5	7
ICWR 094123	1	2115	32	95	3343	43	217	27	8.8	81	95	5	5
ICWR 90001	28	2174	33	95	3320	46	220	26	8.7	53	82	5	5
ICWR 90009	33	2106	34	95	3145	45	208	22	10.0	44	81	7	4
ICWR 903011	19	2096	35	95	3417	53	238	20	8.8	64	98	6	5
ICWR 90040	26	2091	36	94	2925	42	203	22	10.5	62	66	3	2
ICWR 90014	30	2078	38	91	2959	46	215	25	10.0	59	69	3	2
ICWR 034123	3	2000	39	90	3126	54	217	24	10.5	68	84	7	4
ICWR 90012	36	1895	40	90	3256	48	220	23	13.7	62	82	5	2

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Table 42. Summary of performance for PUTCHY-2 Loc :DISAB ENABIP-90

Entry	Entry no.	Grain Yield		Panicle yield Eg ha ⁻¹	Time								
		Eg ha ⁻¹	ha/ha		to 50% bloom (d)	Plant height (cm)	Panicle length (cm)	Panicle girth (cm)	Plant count (*000/ha)	Head count	Visual unifor. mity	Loggings	
ICWR 90020	44	1966	41	39	3007	43	210	25	10.0	71	97	6	3
ICWR 90000	32	1976	42	39	3019	42	207	23	8.8	61	100	6	3
ICWR 90072	23	1957	43	38	2980	43	193	22	10.5	65	111	2	2
ICWR 90017	8	1941	44	38	2923	43	215	24	10.0	69	78	4	4
ICWR 90022	46	1675	45	35	2215	45	223	25	8.2	60	120	8	3
ICWR 90010	9	1833	46	42	2828	51	257	27	12.7	51	73	6	2
ICWR 90011	35	1814	47	32	2662	44	210	23	8.5	58	83	6	3
ICWR 90000	24	1756	48	31	2801	48	201	22	12.0	54	79	4	4
ICWR 90013	48	1776	49	30	2871	48	232	26	10.5	49	89	7	3
ICWR 90023	47	1761	51	37	2745	42	207	23	8.8	53	110	4	4
ICWR 90061	27	1643	52	70	2297	50	215	24	12.7	48	82	4	3
ICWR 451	52	2564	7	116	2895	52	232	27	9	62	94	4	4
ICWR 84400	50	2519	11	114	4263	53	240	26	10	63	97	8	3
ICWR 82000	51	2078	37	94	3129	49	217	26	9	53	87	5	3
WC-075	43	1715	53	77	2575	56	275	30	10	61	73	7	2
SE ₂		168.72			232.51	1.49	12.43	1.71	0.52	0.00	0.00	0.93	0.91
MEAN		2219			2443	48.10	215.00	25.20	10.10	53.40	91.00	5.20	3.90
CV(%)		13.00			11.80	5.43	9.70	11.80	9.10	23.30	17.10	29.50	49.80
PROP(%)		3.07			3.83	0.52	2.65	1.93	0.11	1.37	1.79	2.75	2.58
h ₂ ²		0.41			0.53	0.65	0.35	0.24	0.70	0.11	0.21	0.37	0.34
h ₂ ²		0.67			0.75	0.85	0.82	0.43	0.68	0.27	0.44	0.64	0.61

h₂ first on mean basis : second on plot basis

Table 43. Summary of performance for PHS37 1998 across PHS, Hcr, PHF & PGP Entry wise

Entry	Entry no	Grain Yield				Seed yield		Time to bloom		Plant height		Plant count		Head number		
		Kg ha ⁻¹	% of		Mean	Mean	Mean	Mean	Rank		Rank		Rank			
			Controls	Mean					Mean	Mean	Mean	Mean	Mean			
ICWY 0203 (DM 21; 8/00)	1	2020	83	11	93	11	4030	11	43	13	192	14	91	5	127	10
ICWY 07001 (DM 1; 8/07)	2	3090	91	5	103	5	4321	5	45	9	202	9	85	12	123	13
ICWY 07001 (DM 3; 8/04)	3	2970	87	8	99	7	4130	10	44	12	201	10	86	13	122	14
ICWY 07001 (DM 1; 8/03)	4	2970	87	7	99	8	4189	7	44	10	198	12	89	9	127	11
ICWY 08007 (DM 7; 8/00)	5	2750	81	12	90	12	3706	13	42	14	192	13	90	7	132	8
ICWY 08000 (DM 4; 8/09)	6	3050	89	6	102	6	4216	6	44	11	206	11	86	11	124	12
ICWS 7703 (DM 4; 8/07)	7	2930	86	9	96	9	4160	8	46	8	213	7	93	1	154	1
WC-C15 (DM 4; 8/07)	8	2820	83	10	94	10	4145	9	43	3	214	6	92	4	130	5
WC-C15 (C15 PARBY)	9	2800	79	13	89	13	3809	12	43	4	217	5	79	44	130	6
ICWY 04400 (DM 1; 8/05)	10	3490	102	1	116	1	5000	1	48	5	220	2	93	2	145	3
ICWY 04400 (DM 21; 8/06)	11	3360	99	2	112	2	4820	2	43	2	222	1	87	19	137	7
ICWY 04400 (DM 8/00)	12	2500	73	14	83	14	3753	14	50	1	207	8	94	8	130	9
ICWY 04400 (DM 6; 8/03)	13	3320	97	4	111	4	4822	4	47	7	216	5	96	6	142	4
ICWY 04400 (DM 1; 8/03)	14	3410	100	2	113	2	4910	2	48	6	217	4	92	3	143	2
SE		75.1					94.2		0.2		2.1		2.0			2.0
Mean		3016.0					4306.0		46.0		206.0		89.0		135.0	
SE		6.3					6.3		0.7		0.4		0.0			0.2

SE first on mean basis ; second on plot basis

Table 44. Summary of performance for PHSST 1990 across PBS, Hiscr, PUF & PLP Grain yield (kg/ha)

Entry no	ACROSS											
	kg ha ⁻¹	% trial			PBS		Hiscr		PUF		PLP	
		Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank
1	2220	11	94	11	3607	11	3170	11	2425	13	2293	9
2	3690	5	103	5	3929	2	3334	8	2710	5	2344	6
3	2976	8	93	8	3615	10	3375	9	2617	8	2271	7
4	2970	8	93	8	3791	4	3247	10	2669	7	2187	8
5	2750	12	91	12	3730	5	2914	14	2570	9	1783	14
6	3050	6	101	6	3675	8	3458	7	2690	6	2383	5
7	2930	9	97	9	3631	6	3552	5	2466	11	2019	12
8	2850	10	94	10	3197	13	3436	6	2556	10	2975	10
9	2683	13	83	13	3207	12	3043	12	2425	12	2929	11
10	3490	1	116	1	4007	1	4194	2	3143	2	2404	1
11	3360	3	112	3	3619	9	4151	3	3210	1	2471	4
12	2500	14	83	14	2623	14	3098	13	2310	14	1867	13
13	3320	4	113	4	3863	3	3914	4	2321	4	2271	2
14	3410	2	113	2	3682	7	4368	1	3059	3	2518	3
SS*					143.82		192.71		77.43		102.64	
Mean	3010				3673		3527		2699		2329	
CV (%)					11.30		15.50		9.10		20.63	
h ₂ ¹					0.30		0.33		0.61		0.17	
h ₂ ²	0.22				0.10		0.03		0.02		0.51	

h₂¹ first on mean basis, second on plot basis.

Table 45. Summary of performance for PUSST 1998 across PBS, Hissar, PSF & PLF Seed yield (kg/ha)

Entry no	Kg ha ⁻¹	ACROSS											
		3 trial			PBS		Hissar		PSF		PLF		
		Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	
1	4020	11	93	11	4711	10	5433	12	3078	12	2514	5	
2	4330	5	100	5	5041	3	5033	0	3302	7	3989	0	
3	4140	10	96	10	4641	11	5494	11	3193	5	3021	7	
4	4170	8	97	8	4830	7	5564	10	3342	8	2962	8	
5	3770	13	87	13	4014	0	4033	14	2934	13	2403	14	
6	4320	6	100	6	5021	4	5067	7	3259	9	3130	5	
7	4170	8	97	8	4766	9	5933	6	3233	10	2745	11	
8	4150	9	96	9	4225	13	0175	5	3370	6	2802	10	
9	3910	12	91	12	4322	12	5428	13	3156	11	2730	12	
10	5010	1	110	1	5305	1	7322	2	3030	3	3517	1	
11	4030	2	112	2	4851	8	7176	2	4007	1	3203	4	
12	3750	14	87	14	3777	14	5716	9	2917	14	2621	13	
13	4220	4	112	4	5049	2	7097	4	3650	4	3490	2	
14	4910	2	114	2	4999	5	7339	1	3026	2	3076	3	
SE _e					167.09		255.20		104.67		184.49		
Mean	4310				4740		6086		3199		2999		
CV(%)					10.00		11.90		8.73		18.40		
h ² _p					0.37		0.50		0.55		0.20		
h ² _e			0.30		0.82		0.90		0.91		0.67		

h² first on mean basis, second on plot basis.

Table 46. Summary of performance for PUSST 1804 across PDS, Hissar, PBF & PLP Ties to TSS bloom

Entry no	Across											
	Days	S trial			PDS		Hissar		PBF		P.L.P	
		Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank
12	50	1	100	1	51	1	53	3	47	1	49	1
11	49	2	100	2	49	2	52	3	46	4	48	3
8	48	3	105	3	49	3	51	4	47	1	48	3
9	48	4	105	4	48	4	53	1	45	5	48	4
10	48	5	105	5	48	5	53	4	46	3	48	5
14	48	6	103	6	47	7	51	5	45	6	47	6
13	47	7	102	7	48	6	50	7	45	7	46	7
7	46	8	99	8	46	8	48	8	43	8	46	8
2	45	9	97	9	46	9	47	9	42	9	44	9
4	44	10	95	10	45	12	47	10	41	12	42	10
6	44	11	95	11	45	10	48	12	42	10	42	12
3	44	12	94	12	45	13	48	13	42	10	42	11
1	42	13	93	13	45	11	47	11	40	13	41	14
5	42	14	91	14	44	14	44	14	39	14	41	14
SE ₂					0.35		0.63		0.42		0.42	
Mean	45				47		49		43		45	
CV(%)					2.10		4.35		2.70		2.70	
b2 ¹					0.80		0.72		0.92		0.86	
b2 ²	0.74				0.97		0.95		0.97		0.98	

b2 first: on mean basis; second on plot basis.

Table 4'. Summary of performance for PHST 1990 across PBS, Biscr, PBF & PLP Plant height (cm)

Entry no	Across												
	Height	S trial				PBS		Biscr		PBF		PLP	
		Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	
11	222	1	107	1	227	1	255	3	190	2	207	2	
19	220	2	106	2	223	2	256	1	190	3	205	3	
9	217	3	104	3	223	3	245	7	190	4	200	1	
14	217	4	104	4	217	5	250	5	190	1	201	4	
13	216	5	104	5	216	6	256	2	194	6	198	6	
8	214	6	103	6	210	4	247	8	194	6	190	5	
7	213	7	102	7	212	8	253	4	188	8	192	7	
12	207	8	100	8	209	9	238	8	191	7	192	9	
2	202	9	97	9	207	11	230	10	176	11	195	8	
3	201	10	97	10	207	10	230	9	182	9	186	12	
6	200	11	96	11	204	12	220	12	177	10	187	10	
4	198	12	95	12	214	7	219	12	175	12	184	11	
5	192	13	93	13	204	14	214	14	171	13	181	13	
1	192	14	92	14	206	12	216	13	167	14	177	14	
SE _e					3.42		5.36		2.44		4.69		
Mean	200				213		230		186		194		
CV, %					4.50		8.47		3.70		6.30		
b ₂ ²					0.31		0.47		0.70		0.29		
b ₂ ²	0.43				0.79		0.83		0.95		0.76		

b₂ first on mean basis; second on plot basis

Table 40. Summary of performance for PUSST 1990 across PUS, Hiar, PUF & PLP Seed number ('000/ha)

Entry no	Across											
	Seed number	% trial			PUS		Hiar		PUF		PLP	
		Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank
7	154	1	114	1	105	1	142	3	150	2	131	3
14	149	2	110	2	102	3	149	2	161	1	123	9
10	145	3	108	3	101	4	138	6	158	3	132	2
13	142	4	106	4	105	5	150	1	140	7	129	8
8	138	5	102	5	101	6	131	5	143	5	127	6
9	130	6	102	6	106	2	127	7	142	6	115	13
11	137	7	101	7	103	10	139	4	153	4	118	10
5	132	8	99	8	109	7	122	9	129	10	124	4
12	130	9	97	9	108	8	127	8	132	3	115	14
1	127	10	94	10	107	12	119	11	121	9	124	1
6	127	11	94	11	107	13	120	10	127	12	128	5
4	124	12	92	12	108	11	112	12	123	14	126	7
2	122	13	91	13	107	9	107	14	122	11	116	12
3	122	14	90	14	104	14	111	13	125	8	116	11
SE _e					4.33		5.74		6.24		4.84	
Mean	125				103		127		133		124	
CV(%)					11.90		12.90		12.60		11.10	
b ₁ ¹					0.27		0.35		0.3*		0.19	
b ₂ ²	0.20				0.91		0.81		0.92		0.43	

b₁ first on mean basis, second on plot basis.

Table 49. Summary of performance for PHSST 1998 across PBS, Hmar, PNF & PLF plant population (1'000/ha).

Entry no	Across											
	Plant pop. on ha ⁻¹	2 trial		PBS		Hmar		PNF		PLF		
		Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank	Mean	Rank
7	93	1	135	1	88	7	104	2	79	1	102	6
10	93	2	135	2	93	5	97	6	75	3	106	5
14	92	3	103	3	88	6	97	5	74	4	137	3
8	92	4	102	4	87	8	98	4	72	13	109	1
1	91	5	102	5	90	4	95	10	70	13	107	2
13	90	6	102	6	81	13	100	3	77	2	104	6
5	90	7	102	7	90	4	105	1	72	11	94	11
12	90	8	102	8	88	5	95	8	71	12	106	4
4	89	9	101	9	87	9	95	7	73	6	102	7
11	87	10	98	10	80	14	95	9	73	6	99	10
6	86	11	97	11	86	10	90	13	68	14	100	9
2	85	12	96	12	83	11	92	11	70	8	94	12
3	85	13	96	13	83	12	92	12	70	7	93	13
9	79	14	89	14	93	2	80	14	73	9	85	14
SE _e					4.91		3.88		2.96		3.81	
Mean	93				87		94		73		101	
CV(%)					16.00		11.70		11.50		19.70	
h ² ₁					-0.04		0.45		-0.01		0.17	
h ² ₂	0.04				-0.46		0.87		-0.13		0.62	

h² first on mean basis; second on plot basis.

Table 56. Summary of performance for PUSST 1996 PMF (Grain yield unadjusted)

Entry	Entry no.	Grain yield			Grain yield adj. kg ha ₋₁	Head yield (d)	Time to 75% bloom (cu)	Plant height (10-3 ha)	Plant count	Head number	Ag. score
		kg ha ₋₁	Rank	Mean							
ICMY 84400 K 06	11	3050	1	120	3210	4007	44	198	73	153	6
ICMY 84400 B 06	14	2920	2	116	3050	3926	45	198	74	141	6
ICMY 84400 S 05	10	2920	3	115	3143	3880	46	196	75	158	6
ICMY 84400 S 03	13	2736	4	104	2931	3853	43	194	77	143	6
ICMY 87901 K 09	4	2590	5	102	2669	3342	41	175	73	121	5
ICMY 87901 S 07	2	2550	6	101	2710	3382	42	176	73	122	5
ICMY 87901 S 08	3	2490	7	98	2617	3392	42	162	73	135	5
ICMY 88900 S 05	8	2460	8	97	2690	3269	42	177	68	129	4
MC-C75 K 07	6	2420	9	96	2556	3278	47	194	72	143	7
ICMS 1763	7	2360	10	93	2466	3233	42	188	78	159	7
MC-C75 PARRY	9	2310	11	91	2435	3154	45	194	73	142	8
ICTP 8283	1	2290	12	90	2438	3078	43	167	70	121	4
ICMY 88907 S 08	5	2260	13	90	2570	2894	39	171	72	124	5
ICMY 84430 K 08	12	2700	14	83	2310	2917	47	191	71	132	7
SB+		13.0			77	104.7	0.4	2.4	3.0	6.30	0.2
Mean		2533			2639	3295	43	186	73	138	6.0
CV%		9.0			8.0	9.0	3.0	4.0	11.0	13.00	12.0

Table 51. Summary of performance for PMSST 1990 PMP (Grain yield adjusted)

Entry	Grain yield (adjusted)				Grain yield (ori.) kg ha ⁻¹	Time					
	Entry no.	kg ha ⁻¹	Rank	% of mean		Head yield (t)	to 75% bloom (ca)	Plant height 10-3 ha	Plant count	Head number	Ag. score
ICW 84400 E 86	11	3210	1	119	3046	4307	48	198	73	153	8
ICW 84400 S 85	10	3140	2	116	2921	3888	48	196	75	158	8
ICW 84400 S 86	14	3060	3	113	2927	3926	45	198	74	161	8
ICW 84400 S 89	13	2930	4	109	2723	3650	45	194	77	149	6
ICW 87901 S 87	2	2716	5	100	2547	3362	42	176	73	122	5
ICW 88908 S 89	6	2760	6	100	2455	3249	42	177	68	120	4
ICW 87901 E 89	4	2670	7	99	2592	3342	41	175	72	121	5
ICW 87901 S 88	3	2620	8	97	2492	3393	42	182	73	125	5
ICW 88907 S 88	5	2570	9	95	2275	2994	39	171	72	128	5
MC CTS E 87	8	2560	10	95	2413	3378	47	194	72	143	7
ICW 7703	7	2470	11	91	2315	3233	43	168	79	158	7
MC CTS PARRY	9	2440	12	90	2305	3158	45	194	73	142	8
ICTP 8203	1	2410	13	89	2231	3078	40	167	70	121	4
ICW 84420 E 88	12	2310	14	86	2101	2917	47	191	71	122	7
SE-		17.0			79.0	106.7	0.4	2.4	3.0	6.3	0.2
Mean		2760			2512	3139	43	185	73	133	6
CV(%)		8.0			9.0	9.0	2.0	4.9	11.9	12.0	12.0

Table 32. Summary of performance for PUSST 1986 PLP

Entry	Grain yield				Time to 75% bloss (d)	Plant height (cm)	Plant count (10-3 ha)	Head number	
	Entry no.	by ha ₁	Dist m	% trial yield by ha ₁					
ICW 84400 S 85	10	2680	1	117	3517	48	295	106	132
ICW 84400 S 89	13	2570	2	115	3490	46	190	104	125
ICW 84400 S 90	14	2520	3	113	3370	47	201	107	123
ICW 84400 K 86	11	2470	4	111	3203	48	227	99	118
ICW 88908 S 89	6	2360	5	108	3130	42	187	100	126
ICW 87901 S 87	2	2350	6	105	3089	44	195	94	116
ICW 87901 S 88	3	2270	7	102	3022	42	186	95	116
ICW 87901 K 89	4	2190	8	98	2942	42	186	102	120
ICYP 8263	1	2140	9	94	2844	41	177	107	134
WC-C 75 K 87	8	2070	10	93	2802	43	190	109	127
WC-C 75 PARRY	9	2020	11	91	2730	48	220	89	115
ICMS 7703	7	2020	12	91	2740	45	198	102	131
ICW 84490 K 88	12	1970	13	84	2601	45	192	106	115
ICW 88907 S 88	5	1780	14	83	2432	41	181	94	128
SE-		163			194	0.4	6.7	3.8	4.8
Mean		2230			2358	45.0	194.0	101.0	126.0
CV %		21			19	3.0	7.0	11.0	11.0

Table 51. Summary of performance for PUSST 1990 Patancheru black soil

Entry	Entry no.	Grain yield			Seed yield kg ha ⁻¹	Time			
		kg ha ⁻¹	Rank	% trial mean		to 50% bloom (d)	Plant height (cm)	Plant count (cm)	Seed number (10-3 ha)
ICMV 84130 S 85	10	4810	1	111	5305	48	223	92	161
ICMV 87901 S 87	2	3920	2	109	5041	43	207	82	147
ICMV 84400 S 83	11	3870	3	107	5049	48	216	81	155
ICMV 87901 K 89	4	3750	4	105	4830	45	214	87	137
ICMV 88907 S 88	5	3730	5	104	4814	44	204	90	149
ICMS 7703	7	3690	6	102	4766	46	213	88	185
ICMV 84400 S 90	14	3680	7	102	4999	47	217	89	162
ICMV 88908 S 87	6	3680	8	102	5021	45	204	86	138
ICMV 84460 K 85	11	3620	9	100	4853	49	227	86	141
ICMV 87901 S 89	3	3620	10	100	4641	45	207	83	124
ICTP 8203	1	3610	11	100	4711	45	206	93	137
WC-C 75 PUSST	9	3250	12	89	4222	48	223	92	166
WC-C 75 K 87	8	3200	13	89	4228	49	218	87	151
ICMV 84400 K 83	12	2820	14	78	3777	51	209	88	149
SE+		144			167	0.4	3.4	4.9	6.3
Mean		3600			4740	47	213	87	150
CV(%)		11			10	2.0	5.0	16.0	13.0

Table 54. Summary of performance for PUSST 1880 Hazar

Entry	Entry no.	Grain yield			Height kg ha ⁻¹	Time to 75% bloss (d)	Plant height (cm)	Ear length (cm)	Plant head count (10-3 ha)	Podder number (t/ha)	
		kg ha ⁻¹	Rank	% of mean							
ICMV 84400 S 30	14	4370	1	124	7329	51	250	29	97	143	4.2
ICMV 84400 S 05	10	4190	2	119	7322	53	256	30	97	133	4.1
ICMV 84400 K 06	11	4150	3	119	7175	53	255	23	95	123	3.7
ICMV 84400 K 03	13	3910	4	111	7097	50	258	27	100	153	4.1
ICMS 7703	7	5307	5	121	8023	49	253	27	104	142	3.3
MC-C 75 K 07	6	5067	6	99	6175	51	247	24	98	121	4.0
ICMV 83300 S 03	6	3482	7	91	5847	46	230	24	30	113	3.2
ICMV 87901 S 07	2	3290	8	94	5833	47	230	24	92	127	3.2
ICMV 87901 S 04	3	3360	9	96	5490	48	229	24	92	121	2.7
ICMV 87901 K 03	4	3250	10	92	5664	47	219	21	95	107	2.0
ICPP 8203	1	3170	11	80	5433	47	216	22	95	115	2.0
MC-C 75 Pusa22	9	3040	12	86	5420	53	245	27	80	127	4.0
ICMV 84400 K 04	12	3010	13	85	5718	53	233	25	92	127	3.2
ICMV88907 S 03	5	2920	14	82	4352	44	214	22	100	122	2.5
SE		130			231	0.7	5.4	0.7	3.9	5.8	0.2
Mean		3525			6066	43	238	24	94	127	3.4
CV (%)		15			12	4.0	6.0	3.0	12.0	13.0	15.9