

RP 03037

SUMMARY OF RESULTS
AND
TRIALS AVAILABLE
FROM
ICRISAT PIGEONPEA BREEDING PROGRAM

All India Coordinated Pulses Improvement Project
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ICRISAT

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Introduction

Trials

This booklet will provide you with a record of the ICRISAT trials which you conducted during Kharif 1984. This year there was an excellent percentage of returns for trials which we sent to you. In addition you ran these trials very well judging from the generally satisfactory CVs.

Again this year we have included the computer printout for each location as well as a summary table for all locations in each trial. To facilitate finding your own results we have arranged the individual location results for each trial in the same order as they appear on each summary table. It is most appropriate if you interpret the results in relation to your own trial so we have not provided a separate written summary for each trial.

At the end of the booklet we have again included a request form so you can indicate what material you want from ICRISAT. Please fill this in and return it to one of the ICRISAT staff so we can send the material out immediately.

Early-maturity hybrid

We have been pleased with the performance of the early maturity hybrid 83EH009 which has performed very well at Hisar for 3 years (Table 5.1). Mean yield of the hybrid over 5 trials was 3816 kg/ha against 2669 kg/ha for UPAS 120 and 2760 kg/ha for H77-216. The percent of heterosis over UPAS 120 and H77-216 was respectively 43 and 38 percent.

A small scale trial (Table 5.0) consisting of one early maturing hybrid (83EH009) and five checks (UPAS 120, H77-216, ICPL 161, ICPL 87 and Prabhat) was tested at 17 locations in 5 zones during 1984. The hybrid gave very good yields. It ranked 1st at 9 locations and 2nd at 5 locations. On an average the hybrid yielded 2298 kg/ha (17 comparisons) compared to 1780 kg/ha for UPAS 120, giving an advantage of 29% over this check. Another check, H77-216, yielded 1560 kg/ha (13 comparisons) compared to 2083 kg/ha for the hybrid. The superiority of the hybrid over this check was 34%.

In spite of its outstanding performance over years and locations, this hybrid is not being entered in EACT because of seed shortage. However, a separate small yield trial of early hybrids is being offered to interested cooperators.

Staff changes

Dr. Hajit Singh was appointed as Pigeonpea Breeder at our Gwalior station in May 1984 and Dr. K.C. Jain returned from sabbatic leave in Kenya in August 1984.

LEGEND FOR CHARACTERISTICS USED IN TABLES

DF	Days to 50% flower
DM	Days to 75% maturity
PH or PLHT	Plant height in cm
BR	Branches per plant
PP or POD	Pods per plant
PL	Pod length in cm
SP or SPP	Seeds per pod
SW	Seed weight of g/100 seeds
PS or PLST	Plant stand at harvest
YD/P	Yield/Plot
YD/HA or YLKGHA	Yield of grain kg/ha

Table 1.0. Mean performance of EXPAY entries at various locations during 1984 Kharif.

S. No.	Entry	At ICRISAT Hisar				Location (yield kg/ha)					Overall mean	
		DF	DM	BH	SW	ICRISAT Hisar	ICRISAT Patancheru	ICRISAT Gwalior	Junagadh (H.P.)	Derol		Berthali
1.	ICPL 8306	68	137	153	7.3	2829 (11)	1082 (3)	2086 (3)	824 (6)	3179 (11)	3077 (11)	2180
2.	ICPL 315	78	138	177	6.8	2654 (2)	1054 (5)	2096 (2)	828 (5)	1584 (14)	2988 (2)	1867
3.	ICPL 268	60	147	145	7.6	1759 (10)	1168 (2)	1959 (9)	789 (9)	2448 (3)	2886 (4)	1835
4.	ICPL 8303	65	137	152	6.9	2521 (3)	855 (9)	1588 (14)	682 (14)	2222 (6)	2984 (3)	1809
5.	ICPL 4	75	135	167	5.6	2479 (4)	741 (12)	1725 (13)	687 (12)	2237 (5)	2812 (5)	1780
6.	ICPL 8304	59	143	133	8.4	2037 (6)	684 (14)	1969 (8)	906 (3)	2191 (7)	2771 (6)	1760
7.	ICPL 8301	68	136	145	6.5	2253 (5)	727 (13)	1735 (12)	687 (13)	2623 (2)	2307 (8)	1722
8.	ICPL 8305	55	143	127	7.2	1759 (9)	1239 (1)	1988 (7)	848 (4)	2104 (8)	2298 (9)	1706
9.	ICPL 313	57	142	123	8.0	1430 (14)	911 (8)	2027 (5)	941 (1)	2299 (4)	2247 (10)	1643
10.	ICPL 179	55	147	118	8.2	1440 (13)	1040 (6)	2134 (1)	814 (7)	2078 (9)	2122 (12)	1605
11.	ICPL 8302	55	143	127	7.8	1749 (11)	741 (11)	1920 (10)	789 (10)	1934 (10)	2419 (7)	1592
12.	ICPL 8307	54	145	122	8.0	1770 (8)	983 (7)	1998 (6)	804 (8)	1872 (11)	2080 (14)	1535
13.	ICPL 287	64	147	127	7.9	1646 (12)	1054 (4)	2027 (4)	736 (11)	1723 (13)	2173 (11)	1560
14.	ICPL 316	55	143	123	8.8	1831 (7)	855 (10)	1881 (11)	926 (2)	1749 (12)	2099 (13)	1557
SE		1.0	2.4	3.8	0.18	141.5	78.6	125.2	30.0	188.5	264.7	
Mean		62.0	141.6	138.5	7.50	2011.3	938.2	1938.0	804.4	2160.5	2518.9	
CV %		3	3	5	4	12	14	11	6	15	18	

Table 1.1 : Characteristics of entries in EXPAY (T-04) grown at ICRISAT-Hisar, rainy season 1984.

Entry		Days to		Plant	Seeds	100-seed	Plant	Grain	Total	Pod borer	Pod fly	Total	Pod borer	Pod fly
No	Name	Flower	Mature	height (cm)	per pod	weight (g)	stand	Yield (kg/ha)	Insect Damage (%)	Damage (%)	Damage (%)	Insect Damage (Tran)	Damage (Tran)	Damage (Tran)
13	ICPL 8306	68	137	153	3.7	7.3	104	*2829	19.2	19.1	0.2	25.8	25.7	0.2
6	ICPL 315	78	138	177	3.6	6.8	102	2654	22.3	19.8	2.5	28.2	26.4	1.8
10	ICPL 8303	65	137	152	3.4	6.9	111	2521	17.1	15.8	1.3	24.2	23.2	1.1
1	ICPL 4	75	135	167	3.2	5.6	108	2479	21.5	20.6	0.9	27.6	26.9	0.9
8	ICPL 8301	68	136	145	3.3	6.5	107	2253	30.4	27.8	2.6	33.5	31.8	1.6
11	ICPL 8304	59	143	133	3.3	8.4	109	2037	24.1	22.1	2.0	29.2	27.7	1.4
7	ICPL 316	55	143	123	3.2	8.8	97	1831	26.4	21.3	5.0	30.9	27.5	2.2
14	ICPL 8307	54	145	122	3.3	8.0	111	1770	24.0	22.0	2.0	29.2	27.9	1.4
12	ICPL 8305	55	143	127	3.0	7.2	94	1759	26.7	23.0	3.7	31.0	28.6	1.9
3	ICPL 268	60	147	145	3.1	7.6	120	1759	18.1	15.8	2.3	25.2	23.4	1.5
9	ICPL 8302	55	143	127	3.1	7.8	116	1749	31.5	28.4	3.0	34.1	32.2	1.7
4	ICPL 287	64	147	127	3.1	7.9	114	1646	22.1	20.1	2.0	28.0	26.6	1.4
2	ICPL 179	55	147	118	3.1	8.2	113	1440	23.3	20.0	3.4	28.7	26.4	1.8
5	ICPL 313	57	142	123	3.1	8.0	99	1430	17.5	15.3	2.2	24.5	22.7	1.5
SE		1.0	2.4	3.8	0.17	0.18	6.8	141.5	2.93	2.87	0.57	2.06	2.09	0.18
MEAN		62.0	141.6	138.5	3.25	7.50	107.5	2011.3	23.16	20.79	2.37	28.56	26.92	1.44
CV (%)		2.8	3.0	4.8	8.97	4.25	10.9	12.2	21.90	23.93	41.44	12.52	13.46	22.10

Table 1.2: Characteristics of entries in EXPAY(T-90) grown at Patancheru, rainy season 1984.

Entry		Days to		Plant	Seeds	100-seed	Plant	Grain
No.	Name	Flower	Mature	height (cm)	per pod	weight (g)	stand	Yield (kg/ha)
12	ICPL 8305	56	90	61	3.4	6.9	101	1239
3	ICPL 268	58	102	64	3.2	6.8	124	1168
13	ICPL 8306	60	101	65	3.7	6.4	119	1082
4	ICPL 287	58	98	61	3.7	7.0	111	1054
6	ICPL 315	60	101	66	3.7	7.0	103	1054
2	ICPL 179	58	88	60	3.5	7.3	98	1040
14	ICPL 8307	57	90	59	3.9	6.8	100	983
5	ICPL 313	53	92	55	3.6	6.6	96	911
10	ICPL 8303	57	90	57	3.6	6.4	92	855
7	ICPL 316	56	85	50	3.7	7.4	96	855
9	ICPL 8302	52	85	48	3.6	6.2	103	741
1	ICPL 4	59	94	61	4.0	5.5	95	741
8	ICPL 8301	57	90	52	4.1	6.2	97	727
11	ICPL 8304	55	85	51	3.5	6.5	86	684
SE		0.5	2.2	2.1	0.15	0.23	5.7	78.6
MEAN		56.9	92.2	57.8	3.65	6.64	101.5	938.2
CV(%)		1.4	4.1	6.4	7.22	6.00	9.8	14.5

Table 1.3: Characteristics of entries in Extra-early Pigeonpea
Adaptation Yield Test (T-135) at ICRISAT-Gwalior,
rainy season 1984.

Entry		Days to		Plant	Seeds	100-seed	Plant	Grain
No.	Name	Flower	Mature	height (cm)	per pod	weight (g)	stand	Yield (kg/ha)
2	ICPL 179	76	122	105	3.1	7.1	94	2134
6	ICPL 315	82	126	128	3.4	7.4	90	2096
13	ICPL 8306	81	130	126	3.5	7.2	98	2086
4	ICPL 287	79	130	108	3.3	7.5	95	2027
5	ICPL 313	76	125	104	2.9	6.9	82	2027
14	ICPL 8307	72	123	103	3.1	7.2	96	1990
12	ICPL 8305	70	120	103	3.0	7.0	88	1988
11	ICPL 8304	77	122	104	3.3	7.2	91	1969
3	ICPL 268	77	127	113	3.1	7.2	91	1959
9	ICPL 8302	70	123	102	3.6	7.1	92	1920
7	ICPL 316	76	125	97	3.3	7.9	91	1881
8	ICPL 8301	79	123	122	4.0	6.9	80	1735
1	ICPL 4	78	121	118	3.7	6.2	81	1725
10	ICPL 8303	71	122	109	3.3	7.3	86	1588
SE		2.1	1.4	5.3	0.18	0.11	7.0	125.2
MEAN		76.1	124.1	110.2	3.33	7.14	89.8	1938.0
CV(%)		4.8	1.9	8.4	9.32	2.69	13.5	11.2

Table 1.4 Characteristics of entries in EXPAY grown at Junagarh(Gujarat) rainy season 1984.

Entry		Days to		Plant	Seeds	100-seed	Plant	Grain
No.	Name	Flower	Mature	height	per	weight	stand	Yield
				(cm)	pod	(g)		(kg/ha)
5	ICPL 313	59	111	88	3.1	7.4	104	941
7	ICPL 316	60	111	86	3.2	8.5	107	926
11	ICPL 8304	60	112	88	3.2	9.9	97	906
12	ICPL 8305	60	111	88	3.2	7.0	117	848
6	ICPL 315	72	121	109	2.9	7.1	116	828
13	ICPL 8306	69	119	111	3.2	7.6	125	824
2	ICPL 179	60	111	82	3.1	7.2	93	814
14	ICPL 8307	60	111	89	3.0	7.1	121	804
3	ICPL 268	62	113	104	3.3	7.8	135	789
9	ICPL 8302	60	113	90	3.3	7.4	89	789
4	ICPL 287	58	111	96	2.9	7.8	130	736
1	ICPL 4 (CHECK)	71	120	119	3.2	6.1	118	687
8	ICPL 8301	68	114	99	3.4	6.9	116	687
10	ICPL 8303	68	119	103	3.4	7.3	108	682
SE		0.5	0.5	4.4	0.15	0.12	9.8	30.0
MEAN		63.5	114.1	96.6	3.18	7.52	112.5	804.4
CV(%)		1.3	0.8	7.8	7.96	2.74	15.1	6.4

Table 1.5 : Characteristics of entries in EXPAY grown at Derol rainy season 1984.

Entry		Days to		Plant height (cm)	Seeds Per Pod	Plan stand	Grain Yield (kg/ha)
No.	Name	Flower	Mature				
13	ICPL 8306	64	107	106	4.0	212	3179
8	ICPL 8301	62	96	92	4.0	222	2623
3	ICPL 268	60	102	98	4.0	213	2448
5	ICPL 313	57	102	77	4.0	212	2299
1	ICPL 4	70	98	105	4.0	212	2237
10	ICPL 8303	61	99	84	4.0	218	2222
11	ICPL 8304	56	94	82	4.0	210	2191
12	ICPL 8305	57	98	80	4.0	209	2104
2	ICPL 179	56	89	80	3.7	204	2078
9	ICPL 8302	56	94	83	4.0	198	1934
14	ICPL 8307	58	100	73	4.0	224	1872
7	ICPL 316	56	100	78	4.0	216	1749
4	ICPL 287	62	100	84	4.0	191	1723
6	ICPL 315	70	103	105	4.0	205	1584
SE		1.0	1.5	3.3	0.09	7.8	188.5
MEAN		60.5	98.8	87.7	3.98	210.4	2160.5
CV (%)		2.8	2.6	6.6	3.88	6.4	15.1

Table 1.6: Characteristics of entries in EXPAY grown at Berthin (H.P), rainy season 1984.

Entry		Days to		Plant	100 seed	Grain
		Flower Mature		Height	weight	Yield
No.	Name				(g)	(kg/ha)
13	ICPL 8306	65	156	153	8.6	3077
6	ICPL 315	81	158	163	8.1	2988
10	ICPL 8303	71	146	143	7.7	2984
3	ICPL 268	66	151	140	8.1	2886
1	ICPL 4	78	137	158	6.6	2812
11	ICPL 8304	61	144	136	8.4	2771
9	ICPL 8302	59	146	121	7.8	2419
8	ICPL 8301	74	142	146	7.7	2307
12	ICPL 8305	61	144	126	7.9	2298
5	ICPL 313	60	144	125	8.3	2247
4	ICPL 287	65	156	138	8.1	2173
2	ICPL 179	60	146	126	7.8	2122
7	ICPL 316	63	148	127	8.1	2099
14	ICPL 8307	62	144	124	8.0	2080
SE		2.5	3.2	2.8	0.17	264.7
MEAN		66.1	147.3	137.6	7.95	2518.9
CV(%)		6.5	3.8	3.5	3.78	18.2

Table 2.0: Performance of entries in EDAY (DT) during 1984 Kharif.

S. No.	Entry	At ICRISAT, Hissar				Location (yield kg/ha)							Mean
		DF	DM	PH	SW (G/100 seeds)	ICRISAT Hissar	ICRISAT Patancheru	Junagadh	Berthun (H.P.)	Derni	Secun-derabad	Sehore	
1.	ICPL 154	80	148	192	9.7	3908(11)	1477(4)	945(5)	2840(1)	1593(6)	1559(3)	536(9)	1837
2.	ICPL 8322	70	143	156	9.1	3519(12)	1243(8)	965(3)	2173(7)	1626(5)	1703(2)	853(2)	1755
3.	ICPL 146	76	159	170	10.1	2562(9)	1579(2)	809(10)	2433(4)	2437(11)	1394(1)	692(4)	1701
4.	ICPL 141	76	137	183	8.2	1066(4)	1213(9)	789(11)	2687(2)	- (2)	- (5)	658(5)	1683
5.	ICPL 8309	78	139	167	11.3	2685(7)	1652(1)	936(6)	2168(8)	1335(9)	-	1033(1)	1635
6.	ICPL 312	74	147	165	11.8	2963(5)	1535(3)	945(4)	1677(11)	-	-	551(3)	1574
7.	ICPL 4	70	127	175	5.9	2305(11)	1257(7)	775(12)	2558(3)	2030(3)	885(7)	565(7)	1482
8.	ICPL 8317	74	143	157	9.4	2706(6)	1287(6)	1080(2)	1937(10)	1533(7)	1265(6)	478(1)	1469
9.	ICPL 94	74	139	177	9.4	2675(8)	1404(5)	848(9)	2279(5)	942(11)	1404(4)	721(3)	1468
10.	ICPL 289	73	153	142	10.8	3447(3)	789(12)	1121(1)	1983(9)	1352(8)	830(8)	341(12)	1410
11.	ICPL 8320	72	156	148	11.6	2397(10)	804(11)	872(7)	1714(12)	1829(4)	-	522(10)	1356
12.	ICPL 8312	63	142	133	9.0	1749(12)	936(10)	872(8)	2210(6)	1164(10)	-	653(6)	1264
SE±		1.1	1.7	5.1	0.17	203.9	130.9	37.8	267.4	-	-	-	97.5
Mean		73	146	164	9.7	2832	1265	913	2232	1604	1293	634	
CV %		3	2	5	3	13	16	7	21	-	-	27	

Table 2.1: Characteristics of entries in EPAY-(DT) (T-05) grown at ICRISAT-Hisar, rainy season 1984.

Entry		Days to		Plant	Seeds	100-seed	Plant	Grain	Total	Pod borer	Pod fly	Total	Pod borer	Pod fly
No	Name	Flower	Mature	height (cm)	per pod	weight (g)	stand	Yield (kg/ha)	Insect Damage (%)	Damage (%)	Damage (%)	Insect Damage (Tran)	Damage (Tran)	Damage (Tran)
5	ICPL 154	80	148	192	3.0	9.7	66	3909	17.8	15.8	2.9	24.9	23.4	1.7
12	ICPL 8322	70	143	158	3.6	9.1	62	3519	9.4	7.5	1.9	17.8	15.9	1.3
6	ICPL 289	73	153	142	3.7	10.8	38	3447	9.3	8.7	0.5	17.7	17.1	0.6
3	ICPL 141	76	137	183	3.6	8.2	45	3066	24.1	22.2	2.0	29.2	27.8	1.4
7	ICPL 312	74	147	165	4.2	11.8	53	2963	28.6	26.8	1.8	32.2	31.0	1.3
10	ICPL 8317	74	143	157	3.8	9.4	48	2706	9.0	8.7	0.3	17.2	17.0	0.3
8	ICPL 8309	78	159	167	3.2	11.3	38	2685	14.3	10.6	3.7	22.0	18.7	1.9
2	ICPL 94	74	139	177	3.6	9.4	46	2675	34.4	30.8	3.6	35.7	33.4	1.8
4	ICPL 146	76	159	170	3.4	10.1	55	2562	19.9	16.5	3.3	26.3	23.8	1.8
11	ICPL 8320	72	156	148	3.4	11.6	45	2397	29.4	28.6	0.9	32.8	32.3	0.9
1	ICPL 4	70	127	175	3.4	5.9	66	2305	24.7	24.0	0.7	29.4	28.9	0.8
9	ICPL 8312	63	142	133	3.3	9.0	45	1749	26.1	23.1	3.0	30.5	28.5	1.7
SE		1.1	1.7	5.1	0.15	0.17	4.7	203.9	3.96	4.13	0.65	2.67	2.87	0.23
MEAN		73.3	146.1	163.9	3.51	9.69	50.7	2831.8	20.58	18.61	2.06	26.31	24.80	1.30
CV(%)		2.6	2.0	5.4	7.24	3.03	16.1	12.5	33.30	38.43	54.76	17.55	20.05	10.90

Table 2.2: Characteristics of entries in EPAY-DT(T-93) grown at Patancheru, rainy season 1984.

Entry		Days to		Plant	Seeds	100-seed	Plant	Grain
No.	Name	Flower	Mature	height (cm)	per pod	weight (g)	stand	Yield (kg/ha)
8	ICPL 8309	63	108	72	4.1	9.3	65	1652
4	ICPL 146	63	115	69	4.1	9.8	63	1579
7	ICPL 312	62	106	61	4.1	10.0	65	1535
5	ICPL 154	65	117	70	3.7	8.7	46	1477
2	ICPL 94	62	105	69	4.4	8.9	65	1404
10	ICPL 8317	62	100	73	4.5	8.5	54	1287
1	ICPL 4	59	95	67	3.7	5.7	78	1257
12	ICPL 8322	60	102	69	3.6	8.3	67	1243
3	ICPL 141	65	109	64	4.2	7.9	58	1213
9	ICPL 8312	58	97	65	3.8	8.0	47	936
11	ICPL 8320	62	103	57	3.8	10.8	32	804
6	ICPL 289	61	102	51	3.6	10.6	39	789
SE		0.6	1.2	1.4	0.20	0.20	6.5	130.9
MEAN		61.8	104.8	65.6	3.98	8.86	56.6	1264.6
CV(%)		1.6	2.0	3.8	8.53	3.94	19.9	17.9

Table 2.3: Characteristics of entries in EPAY-DT grown at Junagarh(Gujarat) rainy season 1984.

Entry		Days to		Plant	Seeds	100-seed	Plant	Grain
No.	Name	Flower	Mature	height (cm)	per pod	weight (g)	stand	Yield (kg/ha)
6	ICPL 289	80	126	106	3.3	9.3	95	1121
10	ICPL 8317	79	119	112	3.9	8.8	99	1080
12	ICPL 8322	73	107	110	3.7	8.2	96	965
7	ICPL 312	81	119	115	4.1	9.7	87	945
5	ICPL 154	84	131	122	3.1	8.4	110	945
8	ICPL 8309	82	130	116	3.3	9.5	87	936
11	ICPL 8320	77	112	115	3.3	9.8	103	872
9	ICPL 8312	73	110	96	3.3	7.4	94	872
2	ICPL 94	81	119	110	3.3	9.3	95	848
4	ICPL 146	82	132	118	3.1	8.4	109	809
3	ICPL 141	84	120	117	3.3	7.5	96	789
1	ICPL 4(CHECK)	81	107	114	3.2	5.7	105	775
SE		0.5	0.4	4.9	0.17	0.13	7.8	37.8
MEAN		79.7	119.3	112.6	3.39	8.49	98.0	913.2
CV(%)		1.1	0.5	7.6	8.88	2.66	13.9	7.2

Table 2.4: Characteristics of entries in EPAY-DT grown at Berthin (H.P), rainy season 1984.

Entry		Days to		Plant	100 seed	Grain
		Flower Mature		Height	weight	Yield
No.	Name				(g)	(kg/ha)
5	ICPL 154	86	178	162	9.6	2840
3	ICPL 141	85	148	169	9.1	2687
1	ICPL 4	73	131	154	6.3	2558
4	ICPL 146	81	173	143	11.3	2433
2	ICPL 94	78	176	153	9.6	2279
9	ICPL 8312	57	138	133	8.4	2210
12	ICPL 8322	65	154	148	9.0	2173
8	ICPL 8309	71	159	149	10.9	2168
13	ICPL 92	67	154	140	8.6	2159
6	ICPL 289	76	144	139	11.0	1983
10	ICPL 8317	70	154	142	10.3	1937
7	ICPL 312	88	177	150	12.0	1877
11	ICPL 8320	74	148	133	10.9	1714
SE		2.1	4.0	4.2	0.29	267.4
MEAN		74.6	156.5	147.3	9.77	2232.2
CV(%)		5.0	4.4	4.9	5.16	20.8

Table 2.5 : Characteristics of entries in EPAY-DT grown at Derol, rainy season 1984.

Entry		Days to		Plant	Seeds	Plant	Grain
No.	Name	Flower	Mature	height (cm)	Per Pod	stand	Yield (kg/ha)
4	ICPL 146	71	129	113	3.7	121	2437
7	ICPL 141	71	118	98	4.0	119	2073
1	ICPL 4	69	99	107	4.3	122	2030
11	ICPL 8320	71	120	89	4.0	125	1829
12	ICPL 8322	69	121	105	3.7	123	1826
5	ICPL 154	72	126	110	3.7	122	1593
10	ICPL 8317	72	122	100	4.3	122	1533
6	ICPL 289	70	115	90	3.7	121	1352
8	ICPL 8309	71	122	96	4.0	121	1335
3	ICPL 148	73	127	109	4.3	121	1262
9	ICPL 8312	62	114	77	4.0	119	1164
2	ICPL 94	72	124	99	3.7	120	942
	SE	0.6	1.4	3.5	0.28	2.3	218.1
	MEAN	70.2	119.9	99.5	3.94	121.3	1614.6
	CV(%)	1.5	2.1	6.1	12.42	3.2	23.4

Table 2.6 : Characteristics of entries in EPAY-DT grown at Secunderabad rainy season 1984.

Entry		Days to		Plant	Seeds	100-seed	Plant	Grain
No.	Name	Flower	Mature	height (cm)	per pod	weight (g)	stand	Yield (kg/ha)
9	ICPL 141	64	102	70	4.3	11.0	197	1728
12	ICPL 8322	56	103	62	4.2	9.5	191	1703
5	ICPL 154	65	110	57	4.6	8.9	196	1559
3	ICPL 148	65	110	59	4.3	9.9	196	1543
10	ICPL 184	66	113	63	4.6	11.0	192	1513
2	ICPL 94	65	110	62	4.3	9.9	196	1404
4	ICPL 146	64	110	65	4.4	9.5	194	1394
11	ICPL 8317	65	103	65	4.3	10.0	192	1265
8	ICPL 315	56	96	71	4.5	7.5	194	1235
7	ICPL 267	52	96	57	4.3	9.0	194	1060
1	ICPL 4	57	94	74	4.1	6.1	196	885
6	ICPL 289	55	96	47	4.3	9.8	194	838
SE		0.4	0.5	3.3	0.08	0.05	1.7	64.3
MEAN		60.9	103.5	62.6	4.33	9.35	194.3	1343.9
CV (%)		1.0	0.9	9.2	3.12	0.87	1.5	8.3

Table 2.7 : Characteristics of entries in EPAY-DT grown at Sehore, rainy season 1984.

Entry		Days to		Plant	Grain
-----		-----		height	Yield
No.	Name	Flower	Mature	(cm)	(kg/ha)
8	ICPL 8309	94	173	102	1033
12	ICPL 8322	92	176	99	853
2	ICPL 94	95	177	96	721
4	ICPL 146	96	151	122	692
3	ICPL 141	92	177	91	658
9	ICPL 8312	92	166	76	653
1	ICPL 4 (CHECK)	89	173	91	565
7	ICPL 312	93	175	100	551
5	ICPL 154	99	170	96	536
11	ICPL 8320	86	164	91	522
10	ICPL 8317	94	169	86	478
6	ICPL 289	90	179	78	341
SE		1.9	6.9	10.2	97.5
MEAN		92.7	170.9	93.9	633.6
CV (%)		3.5	7.0	18.9	26.6

Table 3.0: Performance of entries in EPAY (NDT) during 1984 Kharif.

S. No.	Entry	At ICRI SAT Hisar				Location (yield kg/ha)					Mean
		DF	DM	PH	SW	ICRI SAT Hisar	ICRI SAT Patancheru	Berthali (H.P.)	Derol	Junagadh	
1.	ICPL 81	73	131	195	7.3	3529 (6)	1199 (7)	2936 (2)	1823 (9)	906 (7)	2079
2.	H 77-216	76	139	213	7.4	3117 (9)	1184 (9)	3009 (1)	1955 (7)	936 (5)	2040
3.	ICPL 8328	80	138	202	7.7	3253 (8)	1506 (1)	1851 (5)	2202 (4)	1257 (1)	2013
4.	ICPL 8329	81	140	195	10.1	3621 (3)	1272 (6)	1484 (8)	2690 (1)	911 (6)	1996
5.	ICPL 8325	77	136	193	7.8	3591 (5)	1184 (8)	1921 (4)	2097 (5)	687 (1)	1896
6.	ICPL 292	82	145	235	9.1	3117 (10)	1433 (4)	1484 (7)	2069 (6)	1048 (2)	1838
7.	ICPL 269	82	138	173	10.3	3693 (2)	1447 (2)	1751 (6)	1135 (12)	989 (3)	1803
8.	ICPL 8330	78	137	188	8.6	3601 (4)	892 (1)	1478 (9)	1952 (8)	936 (4)	1770
9.	ICPL 288	84	153	248	8.1	3261 (7)	1447 (3)	721 (12)	2388 (3)	897 (8)	1743
10.	ICPL 314	81	131	180	8.3	3879 (1)	1140 (10)	1387 (10)	1363 (1)	731 (10)	1780
11.	ICPL 147	86	150	222	6.9	2747 (12)	1374 (5)	797 (1)	2538 (2)	819 (9)	1655
12.	ICPL 143	78	134	182	7.8	2942 (1)	877 (12)	2229 (3)	1480 (10)	585 (1)	1623
	SE	1.1	2.8	8.5	0.17	339.1	161.3	244.6	214.3	50.5	
	Mean	80.0	139.3	201.5	8.29	3362.5	1246.4	1753.3	1974.1	891.8	
	CV %	2	4	7	4	18	20	24	19	10	

Table 3.1 : Characteristics of entries in EPAY-(HDT) (T-06) grown at ICRISAT-Hisar, rainy season 1984.

No	Name	Flower	Days to Mature	Plant height (cm)	Seeds per pod	Weight (g)	Plant stand	Total Grain yield (kg/ha)	Total Insect Damage (%)	Pod borer Damage (%)	Pod fly Damage (%)	Total Insect Damage (%)	Pod borer Damage (Tran)	Pod fly Damage (Tran)
8	ICPL 314	81	131	180	3.9	8.3	60	3879	30.0	28.0	2.6	33.1	31.8	1.4
5	ICPL 269	82	138	173	3.7	10.3	53	3693	25.3	22.2	3.1	30.2	28.0	1.7
11	ICPL 8329	81	140	195	3.8	10.1	50	3621	30.6	26.5	4.2	33.5	30.8	2.0
12	ICPL 8330	78	137	188	3.6	8.6	64	3601	31.3	28.6	2.8	33.6	31.0	1.7
9	ICPL 8325	77	136	193	3.4	7.8	51	3591	19.0	15.6	3.3	25.8	23.2	1.7
2	ICPL 81	73	131	195	3.4	7.3	67	3529	16.7	15.0	1.7	23.8	22.5	1.3
6	ICPL 288	84	153	240	3.5	8.1	48	3261	31.1	23.9	7.2	33.8	29.2	2.6
10	ICPL 8328	80	138	202	3.9	7.7	48	3251	30.7	27.7	3.0	33.5	31.5	1.7
1	H77 216	76	139	213	3.3	7.4	61	3117	28.8	27.0	1.8	32.4	31.2	1.3
7	ICPL 292	82	145	235	3.4	9.1	53	3117	27.9	24.4	3.5	31.8	29.5	1.8
3	ICPL 143	78	134	182	3.8	7.8	51	2942	22.0	19.1	3.0	27.6	25.2	1.7
4	ICPL 147	88	150	222	3.5	6.9	58	2747	27.0	24.4	2.6	30.9	29.1	1.6
SE		1.1	2.8	8.5	0.17	0.17	7.2	339.1	5.03	5.06	0.92	3.23	3.36	0.24
MEAN		80.0	139.3	201.5	3.61	8.29	55.3	3362.5	26.71	23.53	3.18	30.83	28.65	1.70
CV(%)		2.4	3.5	7.3	0.16	3.61	22.5	17.5	32.58	37.22	49.93	18.15	20.46	24.80

Table 3.3 : Characteristics of entries in EPAY-NDT(T-94) grown at Patancheru, rainy season 1984.

Entry		Days to		Plant	Seeds	100-seed	Plant	Grain
		Flower Mature		height	per	weight	stand	Yield
No.	Name			(cm)	pod	(g)		(kg/ha)
10	ICPL 8328	62	115	91	3.8	7.3	59	1506
5	ICPL 269	67	115	88	4.4	9.5	60	1447
6	ICPL 288	72	132	117	3.7	8.3	57	1447
7	ICPL 292	65	120	105	3.7	7.5	58	1433
4	ICPL 147	71	123	101	4.0	6.3	70	1374
11	ICPL 8329	65	117	97	4.8	8.1	68	1272
2	ICPL 81	59	105	90	3.6	6.6	67	1199
9	ICPL 8325	59	107	89	3.8	7.2	59	1184
1	H 77-216	59	105	98	3.7	6.7	64	1184
8	ICPL 314	65	115	86	4.1	7.3	62	1140
12	ICPL 8330	58	102	88	3.8	7.3	55	892
3	ICPL 143	60	103	77	4.1	6.6	70	877
SE		0.6	1.5	2.6	0.17	0.13	6.3	141.3
MEAN		63.6	113.3	94.0	3.94	7.39	62.4	1246.4
CV(%)		1.6	2.4	4.7	7.54	3.07	17.3	19.6

Table 3.4: Characteristics of entries in EPAY-NDT grown at Berthin(H-P), rainy season 1984.

Entry		Days to		Plant	100 seed	Grain
No.	Name	Flower	Mature	Height	weight (g)	Yield (kg/ha)
1	H 77-216	102	192	226	6.4	3009
2	ICPL 81	95	185	208	7.0	2936
3	ICPL 143	119	184	198	6.5	2229
9	ICPL 8325	102	190	227	8.1	1921
10	ICPL 8328	109	192	210	6.9	1851
5	ICPL 269	118	192	206	9.3	1751
7	ICPL 292	119	196	220	7.3	1484
11	ICPL 8329	119	193	216	8.3	1484
12	ICPL 8330	118	195	213	6.4	1470
8	ICPL 314	118	193	199	7.3	1387
4	ICPL 147	132	195	217	4.6	797
6	ICPL 288	118	196	223	7.0	721
SE		3.3	2.2	4.8	0.24	244.6
MEAN		114.1	191.8	213.6	7.10	1753.3
CV(%)		5.1	2.0	3.9	5.97	24.2

Table 3.4 : Characteristics of entries in EPAY-NDT grown at Dero rainy season 1984.

Entry		Days to		Plant	Seeds	Plant	Grain
		Flower Mature		height	Per	stand	Yield
No.	Name			(cm)	Pod		(kg/ha)
11	ICPL 8329	85	146	161	4.0	119	2690
4	ICPL 147	81	128	159	4.0	119	2538
6	ICPL 288	87	148	163	4.0	120	2388
10	ICPL 8328	71	112	129	4.3	119	2202
9	ICPL 8325	70	104	140	4.0	118	2097
7	ICPL 292	74	118	144	4.0	122	2069
1	H 77-216	70	103	139	4.0	121	1955
12	ICPL 8330	70	112	125	4.3	117	1952
2	ICPL 81	70	103	133	4.0	121	1823
3	ICPL 143	74	117	110	4.0	119	1480
8	ICPL 314	77	118	112	4.0	119	1363
5	ICPL 269	76	122	113	4.3	118	1135
SE		0.9	0.9	6.9	0.17	1.7	214.3
MEAN		75.5	119.3	135.6	4.08	119.3	1974.1
CV(%)		2.0	1.4	8.8	7.38	2.4	18.8

Table 3.5: Characteristics of entries in EPAY-NDT grown at Junagarh(Gujarat) rainy season 1984.

Entry		Days to		Plant	Seeds	100-seed	Plant	Grain
No.	Name	Flower	Mature	height (cm)	per pod	weight (g)	stand	Yield (kg/ha)
10	ICPL 8328	85	122	145	3.6	6.8	114	1257
7	ICPL 292	89	122	161	3.1	7.5	102	1048
5	ICPL 269	95	125	139	3.7	7.4	110	989
12	ICPL 8330	86	119	142	3.7	6.6	96	936
1	H 77-216	85	121	126	3.3	6.1	105	936
11	ICPL 8329	89	126	143	3.4	7.4	109	911
2	ICPL 81	81	107	133	3.2	6.3	106	906
6	ICPL 288	94	125	131	3.3	6.4	103	897
4	ICPL 147	95	126	160	3.3	6.5	106	819
8	ICPL 314	88	120	125	3.5	7.2	104	731
9	ICPL 8325	82	107	143	3.8	7.5	106	687
3	ICPL 143	88	119	119	3.3	6.9	105	585
SE		0.4	0.4	10.7	0.30	0.12	5.3	50.5
MEAN		88.1	120.0	138.9	3.44	6.90	105.5	891.8
CV(%)		0.9	0.5	13.4	15.21	2.97	8.8	9.8

Table 4.0 : Performance of entries in Egypt during 1984K.

S. No. Entry	At ICRISAT, Hissar				ICRISAT Center (black soil)	ICRISAT Hissar	ICRISAT Gwalior	MAHYCO Jalna	Rahuri	Badna- pur	Laa berga	Gul- berga	Pude- khottal nager	S.K. nager	ICRISAT (Red soil)	Mean
	DF	DM	PH	SW											Loc. 1, 2, 4, 9 and 10	Overall
1. IOP 87	80	145	167	11.2	1734 (1)	2576 (3)	2349 (1)	1968 (2)	573 (5)	145 (2)	486 (2)	705 (2)	596 (6)	2434 (1)	1582 (1)	1377 (1)
2. IOP 1	81	150	200	7.6	1550 (2)	2604 (2)	2303 (2)	2036 (1)	735 (1)	112 (5)	606 (1)	909 (1)	972 (3)	1702 (6)	1285 (2)	1347 (2)
3. H 77-216	78	136	208	7.8	1079 (4)	2562 (4)	1916 (3)	1925 (3)	592 (3)	94 (7)	331 (5)	537 (4)	959 (4)	1976 (3)	1064 (3)	1185 (3)
4. IOP 4	70	136	175	6.8	1115 (3)	2558 (5)	1588 (6)	1683 (4)	587 (4)	95 (6)	309 (4)	492 (6)	1168 (1)	1711 (5)	1033 (4)	1129 (4)
5. IOP 312	77	145	170	11.6	957 (6)	2659 (1)	1826 (5)	1342 (6)	496 (6)	134 (3)	392 (3)	504 (6)	975 (2)	2075 (2)	915 (5)	1116 (5)
6. PUSA 78	79	132	225	8.0	1024 (5)	2264 (6)	1840 (4)	1596 (5)	663 (2)	119 (4)	96 (6)	590 (3)	758 (5)	1886 (4)	827 (6)	1060 (6)
SE \pm	0.9	0.8	5.4	0.1	53.8	123.4	209.9	159.6	70.3	36.1	80.8	77.2	91.3	181.3	123.3	
Mean	77.5	140.9	190.7	8.8	1243	2537	1970	1758	608	129	389	623	905	1944	1118	1647
CV %	2	1	6	3	9	10	21	9	23	56	42	27	20	19	22	
Fertilizer					18.46.0	18.46.0	-	20.40.0	25.50.0	20.40.0	18.46.0	25.50.0	18.45.0	25.50.0	18.46.0	
Weeding					2	-	-	2	1	3	1	3	2	4	3	
Irrigation					2	2	-	5	2	111	-	111	8	2	3	
Protection (No. of sprays)					4	2	-	2	2	3	1	3	3 + 1 dust	4 + 1 dust	4	
Retoon crop					Yes	Failed due to frost	Yes	Yes	-	-	-	-	-	-	Yes	
Spacing (cm)					30 x 10	30 x 10	-	30 x 10	30 x 10	30 x 10	45 x 10	45 x 10	30 x 10	30 x 10	30 x 10	
Planting date					6.7.84	19.7.84	-	18.6.84	26.7.84	24.7.84	25.7.84	26.7.84	4.8.84	7.7.84	13.7.84	

Table 4.1 Characteristics of entries in Early Pigeonpea
Yield Potential trial (T#110) grown at Patancheru,
rainy season 1984. (Black soil)

No.	Entry Name	Main crop	
		100-Seed weight (g)	Grain yield (kg/ha)
3	ICPL 87	10.8	1734
1	ICPL 1	7.7	1550
2	ICPL 4	5.9	1115
6	H-77-216	7.3	1079
4	PUSA 78	7.8	1024
5	ICPL 312	10.3	957
	SE	0.24	53.8
	MEAN	8.29	1243.0
	CV(%)	5.80	8.7

Table 4.2: Characteristics of entries in EPYPT grown at ICRISAT, Hissar rainy season 1984.

Entry		Days to		Plant	Seeds	100-seed	Plant	Grain
No.	Name	Flower	Mature	height	per	weight	stand	Yield
				(cm)	pod	(g)		(kg/ha)
5	ICPL 312	77	145	170	4.1	11.6	152	2659
1	ICPL 1	81	150	200	3.5	7.6	194	2604
3	ICPL 87	80	145	167	4.1	11.2	188	2576
6	H 77-216	78	138	208	3.5	7.8	180	2562
2	ICPL 4	70	136	175	3.5	6.8	179	2558
4	PUSA 78	79	132	225	3.4	8.0	191	2264
SE		0.9	0.8	5.4	0.14	0.13	11.7	123.4
MEAN		77.5	140.9	190.7	3.69	8.82	180.3	2536.9
CV(%)		2.3	1.1	5.7	7.69	3.01	13.0	9.7

Table 4.3: Characteristics of entries in EPYPT grown at Gwalior, rainy season 1984.

Entry		Days to		Plant	Seeds	100-seed	Plant	Grain
No.	Name	Flower	Mature	height	per	weight	stand	Yield
				(cm)	pod	(g)		(kg/ha)
3	ICPL 87	102	127	124	3.9	10.9	100	2349
1	ICPL 1	102	126	132	3.5	6.5	114	2303
6	H 77-216	97	122	149	3.6	6.1	118	1916
4	PUSA 78	93	122	153	3.7	6.4	156	1840
5	ICPL 312	95	128	119	4.3	10.8	86	1826
2	ICPL 4	89	120	120	3.8	5.9	141	1588
SE		1.3	1.0	11.8	0.17	0.14	16.8	209.9
MEAN		96.2	124.0	132.7	3.79	7.78	119.0	1970.1
CV(%)		2.8	1.6	17.8	8.87	3.68	28.2	21.3

Table 4.4: Characteristics of entries in EPYPT grown at Jalna, rainy season 1984.

Entry		Days to		Plant	Seeds	100-seed	Plant	Grain
No.	Name	Flower	Mature	height	per	weight	stand	Yield
				(cm)	pod	(g)		(kg/ha)
1	ICPL 1	78	115	112	4.1	6.5	121	2036
3	ICPL 87	78	116	102	4.1	9.4	101	1968
6	H 77-216	73	103	123	4.0	6.5	132	1925
2	ICPL 4	68	101	109	4.2	5.5	130	1683
4	PUSA 78	71	101	116	3.9	6.9	146	1596
5	ICPL 312	69	102	94	4.5	7.8	107	1342
	SE	0.7	1.8	4.0	0.15	0.35	16.0	112.9
	MEAN	72.5	106.2	109.2	4.12	7.10	122.8	1758.0
	CV(%)	2.0	3.4	7.4	7.14	9.95	26.1	12.8

Table 4.5 Characteristics of entries in EPYPT grown at Rahuri, rainy season 1984.

Entry		Days to		Plant	Seeds	Plant	Grain
No.	Name	Flower	Mature	Height	Pod	Stand	Yield
							(kg/ha)
1	ICPL 1	79	107	45	3.0	258	735
4	PUSA 78	70	106	52	3.3	262	663
6	H 77-216	73	108	62	3.2	258	592
2	ICPL 4	71	103	51	3.6	259	587
3	ICPL 87	82	106	55	3.1	264	573
5	ICPL 312	74	109	51	3.5	263	496
SE		1.8	1.1	2.9	0.11	1.6	70.3
MEAN		74.9	106.5	52.6	3.30	260.6	607.5
CV(%)		4.7	2.1	11.2	6.85	1.3	23.2

Table 4.4: Characteristics of entries in EPYPT grown at
Badnapur, rainy season 1984.

Entry		Plant	Seeds	100-seed	Plant	Grain
No.	Name	height (cm)	Per Pod	Weight (g)	stand	Yield (kg/ha)
7	BDN 31	39	3.6	8.3	157	239
3	ICPL 87	40	4.1	9.7	128	145
5	ICPL-312	34	4.8	9.8	145	134
4	PUSA 78	44	3.6	7.4	133	118
1	ICPL 1	47	3.6	7.3	141	112
8	PRABATH	28	3.8	5.6	124	97
2	ICPL 4	33	4.0	5.4	125	95
6	B 77-216	47	4.0	6.4	121	94
	SE	2.3	0.19	0.37	4.3	36.1
	MEAN	39.1	3.96	7.47	134.2	129.2
	CV.(%)	11.9	9.48	9.87	6.4	55.9

Table 4.7 : Characteristics of entries in EPYPT grown at Lam (A.P), rainy season 1984.

Entry		Days to	Grain
		Flower	Yield
No.	Name		(kg/ha)
1	ICPL 1	72	606
3	ICPL 87	57	486
4	PUSA 78	56	392
2	ICPL 4	56	389
6	H 77-216	62	331
5	ICPL 312	55	96
	SE	1.1	80.8
	MEAN	59.6	383.0
	CV(%)	3.8	42.2

Table 4.8: Characteristics of entries in EPYPT grown at Gulbarga rainy season 1984.

Entry		Days to		Plant height (cm)	Seeds per pod	100-seed weight (g)	Plant stand	Grain Yield (kg/ha)
No.	Name	Flower	Mature					
1	ICPL 1	75	117	33	4.6	8.7	90	909
3	ICPL 87	73	116	25	4.3	10.7	95	705
4	PUSA 78	72	118	30	4.5	7.9	93	590
6	H 77-216	72	116	34	4.4	7.8	83	537
5	ICPL 312	71	117	26	5.0	10.9	96	504
2	ICPL 4	71	108	25	4.6	6.9	92	492
	SE	0.6	0.4	1.2	0.17	0.07	7.8	77.2
	MEAN	72.3	115.4	29.0	4.57	8.84	91.4	622.7
	CV (%)	1.4	0.6	7.3	6.31	1.46	14.9	21.5

Table 4.9: Characteristics of entries in EPYPT grown at Pudukkotai, rainy season 1984.

Entry		Days to		Plant	100-seed	Plant	Grain
No.	Name	Flower	Mature	height	weight	stand	Yield
				(cm)	(g)		(kg/ha)
2	ICPL 4	56	82	100	4.2	218	1168
5	ICPL 312	63	88	104	9.9	209	975
1	ICPL 1	59	90	115	5.8	211	972
6	H 77-216	55	84	124	5.5	242	959
4	PUSA 78	55	83	119	4.7	190	758
3	ICPL 87	62	94	95	9.0	153	596
	SE	0.3	0.2	4.3	0.08	13.2	91.3
	MEAN	58.1	86.7	109.6	6.51	203.8	904.6
	CV(%)	1.0	0.6	7.9	2.59	12.9	20.2

Table 4.10 Characteristics of entries in EPYPT grown at S.K.Nagar rainy season 1984.

Entry		Days to		Plant	Seeds	100-seed	Plant	Grain
No.	Name	Flower	Mature	height (cm)	per pod	weight (g)	stand	Yield (kg/ha)
3	ICPL 87	83	133	106	4.3	9.0	128	2434
5	ICPL 312	79	135	122	4.3	9.1	161	2075
6	H 77-216	75	138	135	3.8	6.3	243	1976
4	PUSA 78	74	136	143	3.6	6.7	207	1886
2	ICPL 4	79	135	129	3.8	5.6	255	1711
1	ICPL 1	76	139	124	3.9	6.7	225	1702
SE		1.0	0.5	3.4	0.22	0.17	18.7	181.3
MEAN		77.5	135.8	126.4	3.97	7.22	203.2	1964.0
CV(%)		2.5	0.8	5.3	11.20	4.80	18.4	18.5

Table 4.11: Characteristics of entries in Early Pigeonpea
Yield Potential trial (T#1111) grown at Patancheru,
rainy season 1984. (Red soil)

Entry No.	Name	Main crop	
		100-Seed weight (g)	Grain yield (kg/ha)
3	ICPL 87	11.3	1502
1	ICPL 1	7.6	1285
6	H-77-216	7.2	1064
2	ICPL 4	5.9	1033
5	ICPL 312	10.8	915
4	PUSA 78	7.6	827
	SE	0.17	123.3
	MEAN	8.41	1117.6
	CV (%)	4.11	22.1

Table 4.12: Performance of main and ratoon crop in EGYPT during 1984 Kharif.

S. No.	Entry	ICRISAT (B) ¹		Total	ICRISAT (R) ²		Total	Mahyco		Total	Mean		
		Main	Ratoon		Main	Ratoon		Main	Ratoon		Main	Ratoon	Overall
1.	ICPL 87	1734	137	1871 (1)	1582	867	2449 (1)	1968	915	2883 (3)	1761	640	2401 (1)
2.	ICPL 1	1550	192	1742 (2)	1285	516	1801 (2)	2036	1319	3355 (2)	1624	676	2299 (2)
3.	ICPL 4	1115	127	1242 (4)	1033	529	1562 (4)	1683	762	2445 (5)	1277	473	1750 (4)
4.	H 77-216	1079	259	1338 (3)	1064	692	1756 (2)	1925	1444	3369 (1)	1356	798	2154 (3)
5.	Pusa 78	1024	198	1222 (5)	827	435	1262 (6)	1596	1032	2628 (4)	1149	555	1704 (5)
6.	ICPL 312	957	63	1020 (6)	915	419	1334 (5)	1342	530	1872 (6)	1071	337	1409 (6)
	SE ±	53.8	25.5		123.3	576.4		159.6	227.5				
	Mean	1243.0	162.5		1118.0	65.4		1758.0	1003.3				
	CV %	8	31		22	23		9.0	23				

1 - Black Soil

2 - Red Soil

Table 5.0 : Mean performance (yield kg/ha) of an early maturing hybrid and checks at various locations during 1984

Entry	North Plain West zone				South zone			East zone	W.P. zone
	Hisar ICRISAT	Hisar HAU	Kaul	Pantnagar	ICRISAT	Secunderabad	Pudukkottai	Sabour	Varanasi
HYBRID									
81EH009	3718 (1)	2375 (1)	1887 (1)	2524 (6)	1810 (2)	1534 (1)	919 (1)	3077 (1)	2703 (2)
CHECKS									
UPAS-120	3074 (4)	1550 (4)	1665 (3)	2667 (5)	1524 (3)	976 (5)	605 (3)	1715 (4)	2636 (1)
H 77-216	2889 (5)	2175 (3)	1886 (2)	2714 (4)	810 (5)	977 (4)	684 (2)	1729 (3)	-
ICPL 161	3227 (3)	2300 (2)	777 (5)	3643 (1)	2143 (1)	1024 (3)	496 (5)	2762 (2)	2793 (1)
ICPL 87	3245 (2)	1475 (5)	1332 (4)	2858 (3)	1333 (4)	1215 (2)	354 (6)	562 (6)	2613 (4)
Prabhat	2301 (6)	1425 (6)	777 (6)	3021 (2)	762 (6)	738 (6)	554 (4)	1695 (5)	2613 (5)
Mean	3076	1883	1387	2905	1397	1077	602	1923	2671
SE ±	190	45	99	332	241	97	112	426	216
Cv %	8.7	3.4	10.1	16.1	24.4	7.7	15.7	31.3	11.4

contd.

Table 5.1: Performance (Yield kg/ha) of early maturity hybrid 83 EH009 at Hisar (ICRISAT) during 1981, 1983 and 1984.

Entry	Days to maturity	G/100 seeds	1981	1983	1984			Mean	Meteorobis over	
					Test-1	Test-2	Test-3		UPAS 120	H 77-216
HYBRID										
81EH009	140	7.8	3900 (1)	3560 (1)	3718 (1)	3752 (1)	4151 (1)	3816	43	38
CHECKS										
UPAS 120	43	7.7	2225 (7)	2569 (6)	3074 (4)	2528 (6)	2948 (4)	2669		
H 77-216	134	7.5	-	2715 (15)	2889 (5)	2656 (5)	2778 (5)	2760		
T 21	-	-	2928 (3)	2508 (10)	-	-	2531 (6)	2636		
Piabhat	127	6.8	1809 (10)	-	2101 (6)	-	-	2075		
SL 1			145	176	190	363	414			
CV %			8	13	9	23	26			
Entries			10	20	10	10	10			
Replications			3	3	2	3	3			
Rows/plot			4	4	3	4	3			

5 1984 Hisar data

Table 6.0 : Performance of entries in MPAY during 1984 Kharif.

S. No.	Entry	At ICRISAT Center			Mean yield	Yield (kg/ha)			Mean
		DT	DM	Wt (g/100 seeds)		ICRISAT	Kanpurbagam	Bhusinipatna	
1.	C 11 (Check)	124	182	171	9.0	1741 (2)	1300 (1)	1055 (6)	1365 (1)
2.	ICPL 329	117	174	176	9.6	1144 (6)	988 (9)	1503 (1)	1238 (2)
3.	BDM 1 (Check)	108	162	144	9.7	1660 (3)	1000 (5)	833 (13)	1164 (3)
4.	ICPL 8340	119	174	171	9.1	1346 (4)	775 (16)	1306 (3)	1142 (4)
5.	ICPL 2	118	170	173	7.7	922 (12)	1013 (4)	1672 (2)	1136 (5)
6.	ICPL 84066	116	171	164	9.1	1741 (1)	700 (17)	833 (14)	1093 (6)
7.	ICPL 6	121	174	167	7.7	1024 (8)	900 (11)	1208 (4)	1044 (7)
8.	ICPL 84067	124	179	179	8.4	1049 (7)	1060 (6)	1069 (5)	1039 (8)
9.	ICPL 84069	120	175	179	10.9	966 (11)	1125 (3)	927 (9)	1003 (9)
10.	ICPL 9341	118	175	173	11.5	1161 (5)	925 (10)	792 (16)	959 (10)
11.	ICPL 506	121	176	166	10.9	435 (19)	1225 (2)	1014 (7)	891 (11)
12.	ICPL 8339	123	178	177	8.3	972 (10)	756 (15)	972 (8)	885 (12)
13.	ICPL 84061	117	169	167	7.0	799 (14)	825 (13)	819 (15)	814 (13)
14.	ICPL 84062	105	152	172	7.1	1008 (9)	1000 (7)	403 (20)	804 (14)
15.	ICPL 84060	116	166	181	8.0	820 (13)	1000 (8)	514 (19)	778 (15)
16.	ICPL 84063	98	151	153	8.0	794 (15)	600 (20)	675 (11)	756 (16)
17.	ICPL 332	118	168	164	7.0	475 (18)	869 (12)	889 (10)	744 (17)
18.	ICPL 84064	99	152	138	6.7	290 (20)	825 (14)	861 (12)	658 (18)
19.	ICPL 84068	117	172	172	10.4	572 (17)	660 (18)	601 (17)	638 (19)
20.	ICPL 84065	101	155	157	7.8	676 (16)	663 (19)	528 (18)	622 (20)
SE		1.2	2.0	4.7	0.29	312.1	27.1	157.6	
Mean		114.9	168.0	167.2	8.69	919.5	507.4	911.3	
CV %		2	2	8	3.3	64	6	29	

*in normal field

Table 6.1 :Characteristics of entries in MPAY (T-64) grown at Patancheru, rainy season 1984.

Entry		Days to		Plant height (cm)	Seeds per pod	100-seed weight (g)	Plant stand	Grain Yield (kg/ha)
No.	Name	Flower	Mature					
14	ICPL 84066	116	171	164	3.6	9.1	22	1741
20	C 11(CHECK)	124	182	171	3.5	9.0	22	1741
19	BDN 1(CHECK)	108	162	144	3.2	9.7	21	1660
5	ICPL 8340	119	174	171	3.5	9.1	22	1346
6	ICPL 8341	118	175	173	3.3	11.5	22	1161
2	ICPL 329	117	174	176	3.5	9.6	24	1144
16	ICPL 84067	124	179	179	3.6	8.4	24	1049
15	ICPH 6	121	174	167	3.4	7.7	20	1024
10	ICPL 84062	105	152	172	3.4	7.1	24	1008
4	ICPL 8339	123	178	177	3.1	8.3	22	972
18	ICPL 84069	120	175	179	3.1	10.9	24	966
7	ICPH 2	118	170	173	3.3	7.7	22	922
8	ICPL 84060	116	166	181	3.1	8.0	24	820
9	ICPL 84061	117	169	167	3.4	7.0	16	799
11	ICPL 84063	98	151	153	3.0	8.0	19	794
13	ICPL 84065	101	155	157	3.1	7.8	22	676
17	ICPL 84068	117	172	172	3.5	10.4	21	572
3	ICPL 332	118	168	166	3.5	7.0	14	475
1	ICPL 306	121	178	166	2.8	10.9	19	435
12	ICPL 84064	99	152	138	3.0	6.7	15	290
SE		1.2	2.0	6.7	0.13	0.29	2.6	312.1
MEAN		114.9	168.8	167.2	3.29	8.69	20.9	979.5
CV(%)		2.0	2.4	8.0	8.10	6.69	25.1	63.7

Table 6.2 : Characteristics of entries in MPAY grown at
Kasturbagram (Indore), rainy season 1984.

Entry		Days to		Plant	Grain
		Flower Mature		Stand	Yield
No.	Name				(kg/ha)
20	C 11 (CHECK)	130	148	57	1300
1	ICPL 306	128	148	39	1225
18	ICPL 84069	120	140	45	1125
7	ICPH 2	120	140	53	1013
19	BDN 1 (CHECK)	120	140	41	1000
16	ICPL 84067	120	140	36	1000
8	ICPL 84060	123	143	34	1000
10	ICPL 84062	120	140	42	1000
2	ICPL 329	120	140	36	988
6	ICPL 8341	120	140	40	925
15	ICPH 6	120	143	27	900
3	ICPL 332	120	140	39	869
12	ICPL 84064	120	140	28	825
9	ICPL 84061	120	140	40	825
5	ICPL 8340	120	140	45	775
4	ICPL 8339	120	140	39	756
14	ICPL 84066	120	140	24	700
13	ICPL 84065	120	143	41	663
17	ICPL 84068	123	143	35	660
11	ICPL 84063	118	138	28	600
	SE	1.1	1.5	5.6	27.1
	MEAN	121.0	141.1	38.3	907.4
	CV(%)	1.9	2.1	29.3	6.0

Table 6.3: Characteristics of entries in MPAY grown at Bhawanipatna (Orissa), rainy season 1984.

Entry		Days to		Plant	Plant	Grain
No.	Name	Flower	Mature	height (cm)	stand	Yield (kg/ha)
2	ICPL 329	101	158	161	74	1583
7	ICPH 2	98	153	158	81	1472
5	ICPL 8340	100	155	152	79	1306
15	ICPH 6	97	152	153	74	1208
16	ICPL 84067	99	155	147	85	1069
20	C 11 (CHECK)	101	154	133	78	1055
1	ICPL 306	99	154	163	72	1014
4	ICPL 8339	99	152	151	79	972
18	ICPL 84069	100	157	139	83	917
3	ICPL 332	101	157	156	80	889
11	ICPL 84063	99	155	141	57	875
12	ICPL 84064	101	158	137	66	861
19	BDN 1 (CHECK)	102	161	126	70	833
14	ICPL 84066	101	159	137	74	833
9	ICPL 84061	98	149	163	70	819
6	ICPL 8341	102	160	146	71	792
17	ICPL 84068	97	152	136	78	681
13	ICPL 84065	102	158	139	56	528
8	ICPL 84060	94	147	166	69	514
10	ICPL 84062	98	154	128	71	403
	SE	0.9	0.7	7.1	5.7	157.6
	MEAN	99.5	155.0	146.5	73.2	931.3
	CV (%)	1.5	0.8	8.3	13.6	29.3

Table 7.0 : Mean yield of LPAY entries at three locations during 1983-84*

S.No.	Entry	Yield kg/ha			Mean
		Gwalior	Morena	Sehore	
1.	ICPL 366	3000(3)	2915(3)	1610(4)	2508
2.	ICPL 369	2975(4)	2706(5)	1770(2)	2484
3.	ICPL 354	2706(10)	3118(1)	1510(9)	2445
4.	ICPL 357	2363(14)	3000(2)	1804(1)	2389
5.	ICPL 356	3074(2)	2294(13)	1569(6)	2312
6.	ICPL 360	2559(11)	2856(4)	1426(14)	2280
7.	ICPL 358	2804(6)	2641(7)	1363(15)	2269
8.	ICPL 372	2779(7)	2484(10)	1532(8)	2265
9.	Gwalior 3	2730(9)	2458(12)	1556 (7)	2248
10.	ICPL 371	2755(8)	2516(9)	1451(12)	2241
11.	ICPL 365	2064(16)	2627(8)	1684(3)	2125
12.	ICPL 362	2412(13)	2654(6)	1267(16)	2111
13.	ICPL 361	2828(5)	2000(16)	1447(13)	2092
14.	ICPL 367	2436(12)	2281(14)	1473(11)	2063
15.	ICPL 364	2167(15)	2242(15)	1475(10)	1961
16.	Local check	3441(1)	2464(11)	1588(5)	
		(Bahar)	(Bahar)	(Sehore 364)	
	Mean	2694	2578	1533	-
	SE±	306	219	142	-
	CV %	23	15	19	-

Table 7.1 Mean plant and grain performance of entries tested in LPAY at Gwalior during 1983-84.

Entry	Days to		Plant ht (cm)	Seeds/ pod	G/100 seeds	Yield kg/ha
	50% fl.	75% mat.				
Bahar	156	262	197	3.8	10.7	3442
ICPL 356	166	267	198	3.6	6.6	3074
ICPL 366	167	269	217	3.7	8.6	3000
ICPL 369	166	271	183	3.8	7.5	2975
ICPL 361	162	268	186	3.5	7.1	2828
ICPL 358	161	267	193	3.3	7.2	2804
ICPL 372	163	270	210	3.2	8.3	2779
ICPL 371	164	270	208	3.2	7.7	2755
Gwalior 3	159	268	210	3.2	8.3	2730
ICPL 354	165	270	190	3.4	8.6	2706
ICPL 360	171	270	186	3.3	6.0	2559
ICPL 367	166	267	190	3.3	9.1	2436
ICPL 362	165	268	197	3.2	7.0	2412
ICPL 357	169	271	199	3.4	8.9	2363
ICPL 364	168	269	215	3.6	8.8	2167
ICPL 365	170	267	185	3.4	7.7	2064
GRAND MEAN	165	268	198	3.9	8.0	2694
SE \pm	2.7	0.8	8.6	2.0	0.3	306
CV%	3	0.6	9	11	7	23

Table 7.3 : Mean plant and grain performance of entries tested in LPAY at Morena during 1983-84.

Entry	Days to		Plant ht (cm)	Seeds/ pod	G/100 seeds	Yield kg/ha
	50% fl.	75% mat.				
ICPL 354	148	254	234	3.2	8.3	3118*
ICPL 357	150	253	222	3.4	9.3	3000
ICPL 366	152	254	221	3.5	9.6	2915
ICPL 360	148	252	215	3.2	8.2	2856
ICPL 369	149	256	232	3.3	8.2	2706
ICPL 362	150	254	208	3.3	7.0	2654
ICPL 358	150	254	200	3.1	8.2	2641
ICPL 365	150	254	238	3.3	8.4	2627
ICPL 371	145	248	203	3.5	9.8	2464
ICPL 372	149	254	240	3.2	8.2	2484
Bahar	145	248	203	3.5	9.8	2464
Gwalior 3	151	252	237	3.3	8.4	2458
ICPL 356	145	256	224	3.1	7.7	2294
ICPL 367	151	256	242	3.1	9.5	2281
ICPL 364	152	253	247	3.2	9.7	2242
ICPL 361	144	254	234	3.2	8.6	2000
GRAND MEAN	149	253	226	3.3	8.6	2578
SE \pm	1.6	10.0	1.5	0.14	0.37	218.65
CV %	2	1	8	8	7	15

Significantly better than checks.

Table 7.3 : Mean plant and grain performance of entries tested in LPAY at Sehore during 1983-84.

Entry	Days to		Plant ht (cm)	Seeds/ pod	G/100 seeds	Yield kg/ha
	50% fl.	75% mat.				
ICPL 357	183	257	156		9.4	1804
ICPL 369	183	257	171		8.4	1770
ICPL 365	187	261	186		8.4	1684
ICPL 366	184	261	171		10.0	1610
Sehore 364 (L check)	182	256	161		10.0	1588
ICPL 356	183	260	170		8.0	1569
Gwalior 3	184	257	174		9.0	1556
ICPL 372	182	257	182		8.6	1532
ICPL 354	184	257	174		9.7	1510
ICPL 364	184	258	188		9.7	1476
ICPL 367	185	260	182		9.3	1473
ICPL 371	182	256	167		9.4	1451
ICPL 361	182	256	165		8.2	1446
ICPL 360	181	256	157		8.2	1427
ICPL 358	184	259	156		8.9	1363
ICPL 362	186	260	162		7.9	1267
GRAND MEAN	184	258	170		9.0	1533
SE \pm	1.1	0.8	5.7		0.2	142
CV %	1	0.6	5		4	19

Table 8.0 : Mean yield of LPAY entries over two locations during 1984-85*

S.No.	Entry	Yield kg/ha		Mean
		Gwalior	Morena	
1.	ICPL 354	2030(4)	2784(1)	2407
2.	T 7 (Check)	2226(1)	2559(4)	2393
3.	ICPL 369	1961(7)	2633(3)	2297
4.	ICPL 362	1613(11)	2741(2)	2177
5.	ICPL 371	1784(8)	2530(5)	2162
6.	ICPL 358	1980(5)	2206(8)	2093
7.	ICPL 365	1975(6)	2040(10)	2008
8.	ICPL 372	1701(9)	2299(7)	2000
9.	Gwalior 3	2050(3)	1907(11)	1979
10.	ICPL 366	2221(2)	1530(14)	1876
11.	ICPL 367	1554(12)	2162(9)	1858
12.	ICPL 360	1505(13)	2162(9)	1834
13.	ICPL 364	1681(10)	1829(13)	1755
14.	ICPL 357	1461(14)	1853(12)	1657
15.	Bahar	868(16)	2309(6)	1589
16.	ICPL 361	1245(15)	1437(15)	1341
	Mean	1742	2186	-
	SE±	270	296	-
	CV %	31	27	-

* Data from Sehore, Dholi and Varanasi has yet to be received.
At Pusa the trial was sown in September.

Table 8.1: Characteristics of entries in Late Pigeonpea Adaptation Yield test, LPAY (T-131), grown at Gwalior, rainy season 1984.

Entry		Days to		Plant	Seeds	100-seed	Plant	Grain
No.	Name	Flower	Mature	height (cm)	per pod	weight (g)	stand	Yield (kg/ha)
15	T 7	145	251	201	3.0	10.2	21	2226
9	ICPL 366	146	250	203	3.1	8.6	21	2221
14	Gwalior 3	139	249	201	2.8	8.1	22	2049
1	ICPL 354	145	253	187	3.0	8.4	21	2030
3	ICPL 358	146	247	169	2.8	7.5	22	1980
8	ICPL 365	142	248	181	2.8	8.1	21	1975
11	ICPL 369	141	249	200	2.9	7.7	21	1961
12	ICPL 371	142	253	188	2.7	8.6	21	1794
13	ICPL 372	145	250	191	2.6	8.1	20	1701
7	ICPL 364	155	251	224	2.8	9.2	22	1681
6	ICPL 362	148	254	173	3.1	7.5	20	1613
10	ICPL 367	154	251	208	3.1	9.4	19	1554
4	ICPL 360	140	250	190	2.9	6.6	19	1505
2	ICPL 357	153	249	211	2.9	9.1	20	1461
5	ICPL 361	145	249	178	3.0	6.9	18	1245
16	BAHAR	132	253	153	2.8	11.6	18	1118
SE		1.9	1.3	5.4	0.15	0.21	1.1	269.5
MEAN		144.7	250.2	191.0	2.88	8.47	20.3	1757.0
CV(%)		2.7	1.0	5.6	10.57	4.89	11.3	30.7

Table 8.2: Characteristics of entries in Late Pigeonpea Adaptation Yield test LPAY, (9-150) at Morena, rainy season 1984.

Entry	Days to	Plant	Seeds	100-seed	Plant	Grain
No.	Name	Flower	Mature	height	per	stand
				(cm)	pod	yield
					(g)	(kg/ha)
1	ICPL 354	158	263	170	2.9	8.2
6	ICPL 362	159	262	171	3.4	7.0
11	ICPL 369	163	261	158	3.0	7.6
15	T 7	158	263	185	3.0	9.6
12	ICPL 371	163	262	158	2.9	8.3
16	BAHAR	151	253	139	3.3	10.1
13	ICPL 372	162	261	167	3.1	8.0
3	ICPL 358	169	264	152	2.9	7.3
10	ICPL 367	154	264	185	3.0	9.9
4	ICPL 360	169	263	152	2.8	6.5
8	ICPL 365	168	259	133	3.2	7.8
14	GWALIOR 3	154	260	158	3.2	7.5
2	ICPL 357	173	264	171	3.1	9.2
7	ICPL 364	165	261	189	3.1	8.4
9	ICPL 366	180	265	133	3.4	8.7
5	ICPL 361	167	262	132	3.3	6.7
SE		4.0	1.6	12.6	0.11	0.22
MEAN		163.3	261.7	159.4	3.08	8.34
CV(%)		4.9	1.2	15.9	7.28	8.36
						14.7
						27.1
						1.6
						21.5
						2185.0
						14.7
						27.1
						1.6
						21.5
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						14.7
						27.1
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Table 9.0 : Mean performance of entries in MPUB during 1984 Kharif.

S. No.	Entry	At Anand				Locations (yield kg/ha)		Mean
		DF	DM	PH	SW	Anand	Sehore	
1.	78143-WB-WB-WB-WB	128	181	153	8.1	1440 (4)	950 (8)	1195
2.	1CPL 295 (Check)	126	182	130	7.4	1411 (8)	956 (7)	1184
3.	78130-WB-WB-WB-WB	125	191	132	8.1	1514 (3)	851 (12)	1183
4.	78204-WB-WB-WB-WB	129	202	121	6.3	1389 (10)	977 (5)	1183
5.	78213-WB-WB-WB-WB	135	194	146	7.0	1359 (11)	941 (9)	1150
6.	78227-WB-WB-WB-WB	124	179	139	8.3	1399 (9)	896 (10)	1148
7.	78191-WB-WB-WB-WB	128	194	125	7.4	1532 (2)	749 (16)	1141
8.	78142-WB-WB-WB-WB	126	182	131	7.2	1276 (14)	986 (4)	1131
9.	78231-WB-WB-WB-WB	130	192	120	8.1	1110 (18)	1093 (1)	1102
10.	78167-WB-WB-WB-WB	123	189	135	7.0	1432 (6)	772 (15)	1102
11.	78140-WB-WB-WB-WB	124	191	115	7.8	1126 (17)	987 (3)	1057
12.	78180-WB-WB-WB-WB	126	190	129	8.6	1435 (5)	677 (18)	1056
13.	78223-WB-WB-WB-WB	124	191	110	7.4	1233 (16)	867 (11)	1050
14.	78148-WB-WB-WB-WB	128	191	115	6.6	1108 (19)	972 (6)	1040
15.	78120-WB-WB-WB-WB	125	178	107	6.5	1269 (15)	789 (14)	1029
16.	78178-WB-WB-WB-WB	127	193	149	8.2	1426 (7)	630 (19)	1028
17.	78139-WB-WB-WB-WB	127	186	129	7.8	1342 (13)	693 (17)	1018
18.	78153-WB-WB-WB-WB	127	190	133	7.3	1009 (20)	846 (13)	928
19.	78179-WB-WB-WB-WB	127	189	157	8.1	1352 (12)	493 (20)	923
20.	C 11 (Check)	130	195	111	6.8	627 (21)	1084 (2)	856
21.	Local check	124	188	222	10.5	2152 (1)	-	-
SE \pm		2.0	1.7	10.2	0.31	166.8	113.1	
Mean		127	189	133	7.6	1331	872	
CV %		3	2	13	7	22	22	

Table 9.1: Characteristics of entries in MPUB grown at Anand (Gujarat) rainy season 1984.

Entry		Days to		Plant	Seeds	100-seed	Plant	Grain
No.	Name	Flower	Mature	height (cm)	per pod	weight (g)	stand	Yield (kg/ha)
21	LOCAL CHECK	124	188	222	4.1	10.5	69	2152
13	78191-WB-WB-WB-WB	128	194	125	3.7	7.4	61	1532
2	78130-WB-WB-WB-WB	125	191	132	3.2	8.1	61	1514
6	78143-WB-WB-WB-WB	128	181	153	3.4	8.1	57	1440
12	78180-WB-WB-WB-WB	126	190	129	3.9	8.6	59	1437
9	78167-WB-WB-WB-WB	123	189	135	3.7	7.0	60	1432
10	78178-WB-WB-WB-WB	127	193	149	3.7	8.2	63	1426
20	ICPL 295(CHECK)	126	182	130	3.3	7.4	63	1411
17	78227-WB-WB-WB-WB	124	179	139	3.9	8.3	59	1399
14	78204-WB-WB-WB-WB	129	202	121	3.5	6.3	60	1389
15	78213-WB-WB-WB-WB	135	194	146	3.3	7.0	63	1359
11	78179-WB-WB-WB-WB	127	189	157	3.8	8.1	63	1352
3	78139-WB-WB-WB-WB	127	186	129	3.4	7.8	61	1342
5	78142-WB-WB-WB-WB	126	182	121	3.3	7.2	52	1276
1	78120-WB-WB-WB-WB	125	178	107	3.3	6.5	52	1269
16	78223-WB-WB-WB-WB	124	191	110	3.5	7.4	61	1233
4	78140-WB-WB-WB-WB	124	191	115	3.1	7.8	61	1126
18	78231-WB-WB-WB-WB	130	192	120	3.5	8.1	63	1110
7	78148-WB-WB-WB-WB	128	191	115	3.6	6.6	58	1108
8	78153-WB-WB-WB-WB	127	190	133	3.5	7.3	55	1009
19	C-11(CHECK)	130	195	111	3.3	6.8	66	627
	SE	2.0	1.7	10.2	0.19	0.31	3.7	166.8
	MEAN	126.8	188.9	133.2	3.53	7.64	60.3	1330.6
	CV(%)	2.7	1.5	13.2	9.53	7.10	10.6	21.7

Table 9.2 : Characteristics of entries in MPUB grown at Sehare (M P), rainy season 1984.

Entry		Days to		Plant height (cm)	100-seed weight (g)	Grain Yield (kg/ha)
No.	Name	Flower	Mature			
21	AS 71-37	125	170	136	8.6	1109
18	78231-WB-WB-WB-WB	126	180	138	9.0	1093
19	C 11(CHECK)	130	189	139	8.3	1084
4	78140-WB-WB-WB-WB	125	185	135	7.6	987
5	78142-WB-WB-WB-WB	121	180	130	8.2	986
14	78204-WB-WB-WB-WB	131	191	111	7.4	977
7	78148-WB-WB-WB-WB	131	181	129	6.8	972
20	ICPL 295(CHECK)	120	177	139	7.7	956
6	78143-WB-WB-WB-WB	130	194	126	8.8	950
15	78213-WB-WB-WB-WB	136	191	146	7.1	941
17	78227-WB-WB-WB-WB	130	190	135	8.6	896
16	78223-WB-WB-WB-WB	131	185	123	6.8	867
2	78130-WB-WB-WB-WB	125	179	133	9.0	851
8	78153-WB-WB-WB-WB	130	181	130	8.0	846
1	78120-WB-WB-WB-WB	119	183	121	7.5	789
9	78167-WB-WB-WB-WB	129	184	128	7.6	772
13	78191-WB-WB-WB-WB	128	186	133	7.9	749
3	78139-WB-WB-WB-WB	129	182	125	8.7	693
12	78180-WB-WB-WB-WB	131	191	128	8.8	677
10	78178-WB-WB-WB-WB	130	195	129	9.0	630
11	78179-WB-WB-WB-WB	130	182	132	8.7	493
	SE	2.4	1.2	1.5	0.43	113.1
	MEAN	127.9	184.6	130.7	8.10	872.3
	CV(%)	3.2	1.1	2.0	9.15	22.4

Table 10.2
CHARACTERISTICS OF LINES PROPOSED FOR 1985 EPAT-DT TEST^a (1984 HISEAR DATA)

Sl. #	Lines	Source	Dr.	Colour				DF	DM	Seed 100		Yield	g
				Fl.	Pod	Seed				per seed	pod wt (g)		
1.	ICPL 816	84HT04-4	DT	YS	GPS	B		55	143*	3.2	8.8	1831	9
2.	ICPL 8306	-13	DT	YS	GPS	B		68	137*	3.4	7.3	2824	12
	ICPL 4(C)	-1	DT	YS	GPS	B		75	135*	3.2	5.6	2464	15
3.	ICPL 8322	-12	DT	YS	GPS	B		70	143	3.6	9.1	3508	20
	ICPL 4 (C)	-1	DT	YS	GPS	B		70	129	3.4	5.9	2284	15
4.	ICPL 8315	-16	DT	RS/O	GPS	B		62	129	3.9	9.4	2889	9
	ICPL 4(C)	-1	DT	YS	GPS	B		71	131	3.4	6.2	2419	15
5.	ICPL 8311	84HT11-3	DT	YS	GPS	C		66	139	3.6	11.6	3049	6
6.	ICPL 8316	-5	DT	Y	GPS	W		74	135	3.9	8.3	2759	6
7.	ICPL 8321	-8	DT	YS	GPS	W		83	138	4.1	9.8	3147	63
8.	ICPL 84018	-9	DT	YS	GPS	B		56	120	3.3	10.5	2053	0
9.	ICPL 84019	-10	DT	YS	GPS	B		55	129	3.1	8.5	2114	0
10.	ICPL 84020	-11	DT	YS	GPS	C		56	118	3.3	8.0	2547	15
11.	ICPL 84023	-14	DT	YS	GPS	B		76	140	3.5	9.0	3358	0
12.	ICPL 84026	-17	DT	YS	GPS	C		69	135	3.4	9.1	3280	12
13.	ICPL 84027	-18	DT	YS	GPS	B		62	130	3.4	10.0	2612	20
14.	ICPL 84029	-20	DT	YS	GPS	B		74	151	3.3	9.3	1904	20
15.	ICPL 84030	-21	DT	Y	GPS	B		76	134	3.2	8.6	2407	24
16.	ICPL 84031	-22	DT	YS	GPS	B		76	145	3.2	10.3	2806	112
17.	ICPL 4 (C)	-1	DT	YS	GPS	B		66	122	3.3	6.3	2605	15
18.	UPAS 120 (C)	84HT01-10	DT	YS	GPS	B		40	140	3.4	7.5	2381	-

* Maturity of second flush; First flush damaged by Maruca

a Plant 2 buffer rows (additional) of ICPL 4 on both sides of UPAS 120 plot in all the 4 replications (to avoid shading to neighbouring plots).

DT = Determinate ; YS = Yellow with streaks ; R = Red ; RS = Red with streaks
Y = Yellow ; RS/O = Red with streaks and orange interior of standard
B = Brown ; W = White ; C = Cream ; GPS = Green with purple streaks

Entries = 18
Design = RBD
Replications = 4
Rows/plot = 5
Spacing = 30 cm x 10 cm
Row length = 4 m
Net plot (to be harvested) = 3.6 m long middle 3 rows.

Table 10.3
CHARACTERISTICS OF LINES PROPOSED FOR 1985 REAY-NDT TEST (1984 HISAR DATA)

Sl. #	Lines	Source	Gr.	Colour	DF	DM	Seeds per pod	100 seed wt (g)	Yield (kg/ha)	GR
			Ht. Fl.	Pod	Seed					
1.	ICPL 269	84HT06-5	NDT Y	GFS W	82	138	3.7	10.3	3688	0
2.	ICPL 292	-7	NDT YS	GFS B	82	145	3.4	9.1	3112	46
3.	ICPL 314	-8	NDT R	GFS B	81	131	3.9	8.3	3873	37
4.	ICPL 8328	-10	NDT Y	GFS B	80	138	3.9	7.7	3246	23
5.	ICPL 8329	-11	NDT Y	GFS W	81	140	3.8	10.4	3611	17
	H77-216(C)	-1	NDT YS	GFS B	76	139	3.3	7.4	3117	65
6.	ICPL 186	-6	NDT YS	GFS B	89	156	4.4	9.6	1986	14
7.	ICPL 8326	-11	NDT YS	GFS B	79	145	3.8	8.9	2438	23
8.	ICPL 8327	-12	NDT YS	GFS B	75	145	3.8	9.8	3621	9
9.	ICPL 8332	-14	NDT R	P W	90	153	5.4	7.6	3189	3
	H77-216(C)	-1	NDT YS	GFS B	79	137	3.5	7.4	2222	55
10.	ICPL 84040	84HT12-2	NDT YS	GFS B	80	133	3.5	7.3	3178	15
11.	ICPL 84042	-4	NDT YS	GFS B	80	131	3.4	8.3	3192	42
12.	ICPL 84050	-12	NDT R	GFS W	86	145	3.3	7.1	2320	30
13.	ICPL 84052	-14	NDT YS	GFS B	84	137	3.6	8.5	3236	41
14.	ICPL 84055	-17	NDT Y	GFS B	84	140	3.7	9.4	2433	4
15.	ICPL 84056	-18	NDT RS	GFS B	84	139	3.2	8.6	3121	91
16.	ICPL 84059	-20	NDT YS	GFS B	86	136	3.6	9.2	2871	54
17.	H77-216(C)	-1	NDT YS	GFS B	83	137	3.4	7.0	2494	55
18.	UPAS 120	84HT01-10	NDT YS	GFS B	88	140	3.4	7.5	2381	-

NDT = Indeterminate; Y = Yellow; YS = Yellow with streaks; R = Red
 RS = Red with streaks; GFS = Green with purple streaks; W = White
 DF = Days to Flower; DM = Days to Maturity

entries = 18 Rows per plot = 5
 design = RED Spacing = 30 cm x 10 cm
 application = 4 Row length = 4 m

at plot
 to be harvested = 3.6 m long x 3 rows

Table 10.4 : Characteristics of entries proposed for 1985 NPAY.

S. no.	L.C.L. no.	residue	UF	LM	YB	SN	SC	distance		L.C.L. kg/ha
								M. %	SM %	
1.	85065	78117-W14-WB-WB*-B (BDN 1 x ICP 1-6-W3*-W1*)	118	180	178	10.0	Br	7.0	-	2273
2.	85066	78153-W20-WB-WB*-B (C 11 x 15-3-3)	119	180	181	8.1	Br	5.4	-	2252
3.	85067	78146-W45-WB-WB*-B (BDN 1 x 15-3-3)	120	181	172	8.0	Br	7.6	-	2252
4.	85068	78117-W25-WB-WB*-B	119	180	172	8.3	Br	18.4	-	2251
5.	85069	78130-W25-WB-WB*-B (AS 71-37 x ICP 1-6-W3*-W1*)	119	182	169	10.8	Br	11.0	-	2181
6.	85070	78143-W19-WB-WB*-B	125	182	185	10.6	Br	7.3	-	2143
7.	85071	78120-W12-WB-WB*-B Check (L.C.L. 2/0)	120	179	166	8.3	Br	10.0	-	2132
8.	85072	80275-8-B-B	120	176	174	8.6	Br	20.0	0.0	2154
9.	85073	80264-7-B-B Check (C 11)	120	179	178	9.1	Br	0.0	0.0	2123
10.	84060	(BDN 1 x ICP 1900-11) Check (C 11)	124	183	179	8.4	Br	-	-	2435
			116	166	181	8.0	Br	5	31.2	820
11.	332	ICP 1903-21-4EB	124	182	171	9.0	Br	-	-	1741
12.	333	ICP 8863-B	118	168	166	7.0	Br	8	21.0	475
13.		C 11 (Check)	104	161	174	9.4	Br	8		2366
14.		BDN 1 (Check)								

Table 10.5 : Characteristics of entries proposed for 1985-86 L.PAY

Entry No.	ICPL No./Check	Days to		Plant ht. (cm)	Seeds/pod	100-seed (g)	Yield (kg/ha) (1984-85)	Reaction to diseases (1984-85) in disease nurseries at Patancheru	
		flower	maturity					SMD %	WILT %
1	ICPL 354	158	263	170	2.9	8.2	2784	52.9	82.6
2	ICPL 358	169	264	152	2.9	7.3	2206	20.0	79.0
3	ICPL 360 (Old ICPL 362)	159	263	152	2.8	6.5	2162	42.9	90.4
4	ICPL 365	168	259	133	3.2	7.8	2039	62.5	60.0
5	ICPL 366	180	265	133	3.4	8.7	1530	0.0	86.7
6	ICPL 369	163	261	158	3.0	7.6	2633	18.2	80.0
7	ICPL 371	163	262	158	2.9	8.3	2530	2.6	80.0
	T 7 (Check)	158	263	185	3.0	9.6	2559	41.4	54.2
	GW 3 (Check)	154	260	158	3.2	7.5	1907	44.1	83.5
	Bahar (Check)	151	253	139	3.3	10.1	2309	0.0	97.0
	SE \bar{x}	4.0	1.6	12.6	0.1	0.2	296	-	-
	Mean	163	262	159	3.1	8.2	2186	-	-
	CV %	4.9	1.2	15.9	7.3	5.3	27	-	-
8	ICPL 8398	136	248	201	3.3	9.0	2145	0.0	97.9
9	ICPL 83104	131	247	224	3.3	7.6	1865	13.8	1.8
10	T 7 (Check)	136	248	213	2.9	10.0	2498	41.4	54.2
11	GW 3 (Check)	135	247	203	3.1	7.9	2057	44.1	92.5
12	Bahar (Check)	126	250	170	3.1	11.6	1624	0.0	97.0
	SE \bar{x}	2.2	0.8	7.3	0.2	0.3	156	-	-
	Mean*	133	248	206	3.2	9.4	2112	-	-
	CV %	3	0.7	7	11	7	15	-	-

Table 10.6: SMD bulks proposed for 1985 MPUB.

S. No.	Cross No.	Peelage	Percentage	Yield kg/ha	SM %	100- g wt.	Seed color
1.	78052	78052-SB-SB-SB-B	C 11 x (T 21 x JA 275) 73054-55-1-V MDT 3*-B*	1926	1.1	10.2	B + W
2.	78053	78053-S(T)B-S(T)-B-SB-SB-B	C 11 x 73054-55-5-VI MDT 5*-B*	1624	0.0	5.9	B
3.	78053	78053-SB-SB-SB-SB-B	C 11 x 73054-55-5-VI MDT 5*-B*	1543	0.0	9.4	B + W
4.	78046	78046-SB-SB-SB-B	AS 71-37 x 73054-55-1-V MDT 1*-B*	1440	0.6	9.3	B + W
5.	78048	78048-SB-SB-SB-SB-B	ICP 7952 x 73054-55-1-V MDT 1*-B*	1427	2.8	7.7	B + W
6.	78071	78071-SB-SB-SB-SB-B	ICP 7952 x JA 275	1363	0.0	8.6	B + W
7.	78080	78080-S(T)B-S(T)B-SB-SB-B	LHG 30 x JA 275	1351	7.0	5.6	B
8.	78070	78070-SB-SB-SB-SB-B	ICP 7952 x 73054-55-5-VI MDT 5*-B*	1291	1.9	7.9	B + W
9.	78047	78047-SB-SB-SB-SB-B	AS 71-37 x 73054-55-1-V MDT 3*-B*	1254	0.6	10.0	B
10.	78054	78054-S(T)B-S(T)B-SB-SB-B	C 11 x JA 275	1248	3.5	8.4	B
11.	78051	78051-SB-SB-SB-SB-B	C 11 x 73054-55-1-V MDT 1*-B*	1221	5.1	8.1	B + W
12.	78064	78064-SB-SB-SB-SB-B	ICP 7894 x 73054-55-1-V MDT 1*-B*	1170	0.6	8.2	B + W
13.	78073	78073-SB-SB-SB-SB-B	(ICP 6399 x ICP 4704) 73081-4002-1*-1* x 73054-55-1-V MDT 3*-B*	1160	4.0	9.4	B + W
14.	78069	78069-SB-SB-SB-SB-B	ICP 7952 x 73054-55-1-V MDT 3*-B*	1120	3.2	7.8	B
15.	78070	78070-S(T)B-S(T)B-SB-SB-B	ICP 7952 x 73054-55-5-VI MDT 5*-B*	972	0.0	9.5	B
16.		C 11 (Check)	--	2317	--	8.4	B

Table 11.1 : Chronology of ACT Pigeonpea Entries from
ICRISAT for 1985 Kharif

Trial	6th year	5th year	4th year	3rd year	2nd year	1st year New entries
EXACT			ICPL 267		ICPL 317 ICPL 8304 ICPL 8306	
EACT	ICPL 81 ICPL 87	ICPL 151	ICPL 142 ICPL 161	ICPL 155 ICPL 315 ICPL 317		ICPL 269 ICPL 8327
ACT 1		ICPL 150 ICPL 189			ICPL 186	
ACT 2	ICPH 2	ICPH 6	ICPL 304 ICPH 7	ICPL 265 ICPL 295	ICPL 296 ICPL 332	
ACT 3		ICPL 310 ICPL 311		ICPL 358 ICPL 360	ICPL 366	

Table 11.2

CHARACTERISTICS OF OLD AND NEW LINES FOR 1985 AICPIP TEST (EXACT)

Entry	Parentage	Gr. Ht.	DF	DM ^a	Colour			100 seed wt. (gms)	Yield (q/ha) 1984	1984 Dis. Score		
					Fl.	Pod	Seed			SMD	PB	W
D:												
ICPL 317	ICP 6997 x Prabhat	DT	72	137	YS	GPS	C	8.8	34.2	11	32	38
ICPL 4(C)	Prabhat	DT	71	131	YS	GPS	B	6.2	24.2			
	SE								2.4			
	CV%								16			
ICPL 8304	Comp. 1	DT	59	143	YS	GPS	B	8.4	20.3	7	-	(74)
ICPL 8306	Comp. 1	DT	68	137	YS	GPS	B	7.3	28.3	12	-	-
ICPL 4 (C)	Prabhat	DT	75	135	YS	GPS	B	5.6	24.6			
	SE								1.4			
	CV %								12			

* - Delayed Maturity because of Maruca/cydia damage.

Table 11.3

CHARACTERISTICS OF OLD AND NEW LINES FOR 1985 AICRIP TEST (FACT)

Sl.#	Entry	Parentage	Gr. Ht.	DF	DM	Colour			100 seed wt. (gms)	Yield (Q/ha)	1984 Dis. Score			
						Fl.	Pod	Seed			SPD	PS	W	
-----1984-----														
<u>OLD:</u>														
1.	ICPL 155	ICP 6997 x Prabhat	DT	91	147	YS	GP3	B	8.2	29.6	0	35	41	
2.	ICPL 317	ICP 6997 x Prabhat	DT	77	135	YS	GP3	C	8.9	26.2	11	32	38	
3.	ICPL 315 (ICP 6997 x Prabhat) x Part 1-3		DT	77	136	YS	GP3	C	8.1	23.5	13	32	80	
	UPAS 120		DT	84	142	YS	GP3	B	7.3	24.3	-	-	-	
		SE								2.5				
		CV%								14				
<u>NEW:</u>														
4.	ICPL 269 (ICP 7035 x UPAS 120)		DT	82	138	Y	GP3	H	10.3	36.9	0	32	37	
5.	ICPL 8327 Comp.1		DT	75	145	YS	GP3	H	9.8	36.2	9	17	28	
	H 77-216		DT	76	139	YS	BP3	B	7.4	31.1	55	-	-	
		SE								1.8				
		CV%								13				

ICPL 1 yield

Table 11.5: Characteristics of entries proposed for 1985 MPWRY

S. No.	ICPL No.	Pedigree	DP	DM	PH	SM	SC	Disease Wt.	Yield kg/ha
1.	85061	78153-M24-WB-WB*-B (C11 x 15-3-3)	118	176	172	8.5	Br	19.2	2432
2.	85062	782003-M12-WB-WB*-B (ICP 7952 x 15-3-3)	118	178	173	8.6	Br	11.8	2329
		Check (ICPL 270)	116	176	169	10.6	Br	19.5	2132

Table 11.6: Characteristics of entries proposed for 1985 MPSRY

S. No.	ICPL No.	Pedigree	DP	DM	PH	SM	SC	Disease % Wt. 84-85	Yield kg/ha
1.	85063	78043-S(T)14-VII MOT 51-SB*-SB*-B (BDN 1 x 73054-55-5 VI MOT 5*-B*)	111	170	166	9.1	Br	0	2196
2.	85064	78053-S(T)3-VIII MOT52-SB*-SB*-B (C 11 x 73054-55-5-VI MOT5*-B*)	115	173	171	10.5	Br	0	2165
		Check (ICPL 265)	118	175	167	8.4	Br	-	4000
	C 11		111	174	161	5.6	Br	-	2012

Table 11.7

CHARACTERISTICS OF ENTRIES PROPOSED FOR 1985 EPS:RY TEST (1984 HISAR EPS:RYT DATA)

Entries = 9 + Net plot (to be harvested) 3.6 m long 3 middle rows
 Design = RBD
 Replication = 3
 Rows/plot = 5
 Spacing = 30 cm x 10 cm
 Row length = 4 m

Sl.#	Line	D ⁰	D ¹	Plant Height (cms)	Seeds per pod	100 seed weight(g)	Yield (kg/ha)	% SND
1.	ICPL 8308	91	148	182	3.6	11.3	3086	11.3
2.	ICPL 288-S28-S36-HB-HB	88	148	240	3.5	7.8	2994	7.8
3.	ICPL 176-S18-S34-T3	79	145	178	3.3	6.1	2932	6.1
4.	ICPL 84074/ESR 8402	81	147	177	2.8	10.5	2855	8.5
5.	ICPL 84077/ESR 8405	80	143	178	3.4	11.6	2747	11.6
6.	ICPL 8324	84	143	187	3.9	14.4	2361	14.4
7.	ICPL 87(C)	79	142	165	3.8	10.3	2932	10.3
8.	ICPL 4 (C)	71	130	177	3.3	6.3	2238	6.3
9.	ICPL 83 (C)	75	143	130	3.2	8.1	2207	8.1
SE		0.9	1.8	3.5	0.2	0.2	230	
CV%		2	2	3	9	4	16	

(SUPPLEMENTARY)

1985 EARLY MATURITY PIGEONPEA HYBRID YIELD TEST (EPHYT)

Entries : 8
Reps : 3
Rows/plot : 4
Row length : 4 meters
Spacing : Same as EACT

Entries

Hybrids: 1. 83EH002

2. 83EH006

3. 83EH009

4. 83EH010

5. 83EH013

Checks: 6. UPAS 120

7. H77-216

8. T 21

These hybrids are based on ms Prabhat and ms T 21. There is only a limited of seed of most of these hybrids.

REQUEST FOR PIGEONPEA TRIALS OF BREEDERS MATERIAL FROM ICRISAT1985-86 Season1985 AICPIP Kharif Pulses Workshop

(Please return this copy to Dr. K.C. Jain or Dr. S.C. Gupta or Dr. D.G. Paris
and retain the carbon copy of this page for your record)

Your name and address:

Please indicate which of the following trials you would like to receive:

<u>Number of sets required</u>	<u>Trial title</u>	<u>See page</u>	
_____	Extra Early Maturity Pigeonpea Adaptation Yield Trial	(Supplement)	EXPAY
_____	Early Maturity Pigeonpea Adaptation Yield Trial (DT)	54	EPAY (DT)
_____	Early Maturity Pigeonpea Adaptation Yield Trial (NDT)	55	EPAY (NDT)
_____	Medium Maturity Pigeonpea Adaptation Yield Trial	56	MPAY
_____	Late Maturity Pigeonpea Adaptation Yield Trial	57	LPAY
_____	Medium Maturity Pigeonpea Unselected Bulk Yield Trial	58	MPUB
_____	Early Maturity Pigeonpea Hybrid Yield	(Supplement)	EPHYT
_____	Others - Please state details of requirements		