

Table 8 Heterosis and Inbreeding Depression for yield and its components in six crosses of chickpea

Source of variation	Days to 50% flowering	Days to pod initiation	Days to maturity	Plant height (cm)	No. of Primary branches	No. of effective pods/plant	No. of seeds / plant	Pod filling %	Biological yield (g)	Harvest index (%)	Seed yield / plant (g)
1	2	3	4	5	6	7	8	9	10	11	12
Cross 1 : JG 16 X ICC 96029											
H	27.33**	22.43**	7.00**	0.54	1.03**	155.32**	196.82**	3.83	60.13	-8.20	23.50*
SE	±0.83	±1.29	±2.66	±1.52	±0.35	±49.22	±71.26	±5.44	±10.49	±10.37	±9.62
I.D.	16.47**	14.63**	2.91	3.65**	1.18**	139.27**	171.73*	5.13	63.30**	-8.25	24.19*
SE	±1.22	±1.21	±1.76	±1.19	±0.18	±47.80	±70.74	±3.15	±8.70	±8.09	±9.69
Cross 2 : JG 74 X ICC 96029											
H	23.33**	11.50*	10.00**	-9.73**	-0.75**	102.56	81.11	1.17	31.03	-7.16	9.13
SE	±5.72	±3.98	±1.77	±3.08	±0.28	±70.13	±53.10	±2.49	±26.71	±6.73	±8.09
I.D.	9.40	6.30	2.81	-13.12**	-0.73**	64.70	37.00	-0.10	17.61	-5.79	3.07
SE	±5.99	±3.42	±1.80	±3.06	±0.24	±70.06	±53.09	±2.19	±26.57	±5.59	±8.07
Cross 3 : JG 130 X ICC 96029											
H	15.83**	4.50**	8.17**	-3.67	-0.13	27.87	41.93	1.16	-3.03	-3.41	-3.30
SE	±2.71	±1.21	±1.54	±2.57	±0.28	±17.42	±30.05	±1.29	±7.71	±5.52	±4.30
I.D.	3.63	-0.86	1.52	-4.43	-0.07	8.34	18.31	1.06	-0.36	-0.75	0.00
SE	±3.07	±1.59	±1.15	±2.73	±0.29	±13.62	±31.00	±2.38	±9.42	±5.24	±3.78
Cross 4 : JGG 1 X ICC 96029											
H	23.00**	18.83**	11.00**	11.30**	0.57*	82.21*	98.33	0.48	23.96	5.29	13.01
SE	±6.03	±6.20	±1.26	±3.22	±0.29	±41.33	±50.84	±1.64	±19.67	±4.51	±7.08
I.D.	8.15	13.67*	0.96	-0.37	0.64	90.22*	46.55	4.95**	20.71	-11.12**	2.84
SE	±6.27	±6.14	±1.10	±4.22	±0.34	±41.11	±51.67	±1.85	±17.98	±2.70	±7.19
Cross 5 : Narsinghpur Bold X ICC 96029											
H	8.83	9.17**	10.67**	-2.60	-0.03	8.20	27.27**	0.15	0.83	3.06	1.73
SE	±5.12	±3.52	±0.37	±2.77	±0.31	±10.04	±5.91	±1.89	±4.94	±4.48	±2.34
I.D.	-5.63	-2.57	-0.71	-2.50	0.00	3.42	20.65**	-1.77	12.86*	1.26	6.08*
SE	±5.95	±3.49	±0.88	±2.66	±0.31	±10.07	±0.66	±2.71	±5.29	±4.59	±2.55
Cross 6: JG130 X JG 322											
H	2.33	1.50	-1.00	-5.37*	-0.37	-4.60	-19.36	0.47	1.00	-5.21	-1.24
SE	±7.22	±6.53	±2.84	±2.39	±0.20	±27.92	±22.53	±1.32	±9.79	±5.84	±6.39
I.D.	11.35*	10.52	0.00	-0.63	0.14	34.85	59.66*	3.76**	10.50	-0.27	5.57
SE	±5.04	±5.50	±2.75	±2.80	±0.20	±23.96	±23.89	±1.44	±9.89	±4.08	±6.18

Note: \*, \*\* = significant at 5% and 1% levels, respectively; D = Duplicate gene action, C = Complementary gene action, SE = Standard error, H = Heterosis over better parent (Heterobeltiosis), I.D. = Inbreeding Depression