

Table 3 Estimates of general combining ability effects of parents involved in recombinational variability study for different quantitative characters

Sl.No	Parents	Seed cotton yield (kg/ha)	Plant height (cm)	No. of monopodia	No. of sympodia	No. of bolls	Mean boll weight (g)	Reproductive Points on sympodia	Length of sympodia at 50 % height (cm)	Seed index (g)	Ginning outturn (%)	Lint index (g)	Photosynthetic rate ( $\mu\text{mol CO}_2 \text{ m}^{-2} \text{ s}^{-1}$ )	Stomatal conductance ( $(\mu\text{mol m}^{-2} \text{ s}^{-1})$ )	Transpiration rate ( $\text{mmol H}_2\text{O m}^{-2} \text{ s}^{-1}$ )
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
Males															
1	DB 533 x DB 534 F4 IPS 44	123.36	0.04	-0.080	-0.2	-3.82*	-0.09	0.04	3.65	-0.61*	1.58	-0.53	0.98	0.03	-1.1**
2	DB 533 x DB 534 F4 IPS 62	219.09	-5.66	0.050	0.43	3.35*	-0.21	-0.45**	-4.06	0.83**	-0.84	0.40	1.57	0.01	-0.56
3	DB 533 x DB 534 F4 IPS 105	-72.66	-4.33	0.19*	-0.86	-1.07	-0.18	0.12	-0.50	0.49	-1.09	-0.19	-7.5**	-0.3**	-0.23
4	DB 533 x DB 534 F4 IPS 26	131.44	5.00	0.19*	0.64	-1.69	-0.19	0.05	2.59	0.82**	1.97	0.46	7.36**	0.31**	0.38
5	DB 533 x DB 534 F4 IPS 71	212.97	-9.87	0.030	0.64	2.02	0.04	-0.58**	-3.14	-0.22	0.08	-0.03	-1.75*	0.02	-0.26
6	DB 533 x DB 534 F4 IPS 30	72.04	10.88*	-0.030	-0.74	-0.19	-0.47*	0.29	6.02**	1.3**	0.77	0.52	-0.79	-0.13**	-1.03*
7	DB 533 x DB 534 F4 IPS 25	118.02	-1.16	-0.21*	0.68	2.10	-0.08	-0.82**	-2.33	-0.52	0.52	0.32	3.92**	0.20**	0.16
8	DB 533 x DB 534 F4 IPS 49	-208.12	6.17	-0.17*	0.68	-1.98	0.14	0.73**	3.38	0.02	-2.53*	-0.56*	-3.46**	-0.09*	-0.46
9	DB 533 x DB 534 F4 IPS 23	-144.82	0.29	0.030	-0.07	2.52	0.21	0.19	0.65	-0.38	-2.41*	-0.52	-7.59**	-0.29**	-1.04*
10	DB 533 x DB 534 F4 IPS 36	-317.54*	14.29**	0.020	0.6	4.81**	0.04	0.62**	5.00*	0.18	-2.41*	-0.26	-3.53**	-0.04	0.32
11	DB 533 x DB 534 F4 IPS 15	-238.08	5.21	0.000	-2.36*	0.98	0.03	0.93**	2.94	-0.83**	-3.8**	-0.87**	-4.08**	-0.09*	-0.27
12	DB 533 x DB 534 F4 IPS 1	-142.35	10.63*	0.120	0.6	3.35*	0.31	-0.48**	-0.19	-0.84**	-0.18	-0.45	-2.91**	-0.03	0.3
13	DB 533 x DB 534 F4 IPS 33	-231.44	-0.87	0.130	0.05	0.39	0.12	0.83**	3.40	-0.15	-1.31	-0.61*	0.09	0.01	-0.33
14	DB 533 x DB 534 F4 IPS 24	-179.34	3.75	-0.23**	1.10	5.52**	-0.07	-0.27	-1.35	-0.03	-1.18	-0.53*	2.55**	0.10*	0.16
15	DB 533 x DB 534 F4 IPS 16	-179.86	-3.83	-0.140	0.01	0.94	-0.19	0.06	-2.54	0.13	2.93**	0.34	2.05*	-0.12**	0.02
16	DB 533 x DB 534 F4 IPS 52	-128.67	5.63	-0.040	1.72	-1.69	0.38*	-0.45**	-2.66	-0.41	1.65	0.38	1.62	0.09*	0.91*
17	DB 533 x DB 534 F4 IPS 12	-291.48*	-15.5**	0.040	-1.95	0.31	0.18	-0.71**	-4.29	-0.28	1.65	0.15	-3.49**	-0.19**	-0.66
18	DB 534 x DB 533 F4 IPS 22	-346.19**	1.50	0.040	-0.16	0.52	-0.06	-0.39*	-2.85	0.08	-0.53	-0.15	-3.57**	-0.01	0.01
19	DB 533 x DB 534 F4 IPS 14	-110.83	9.04	-0.070	0.72	-1.69	0.04	0.11	2.73	-0.86**	-0.65	-0.45	-2.77**	0.04	0.88*
20	DB 533 x DB 534 F4 IPS 34	-239.26	7.54	0.030	0.51	-1.57	-0.11	-0.11	0.21	0.39	-1.69	-0.58*	-3.26**	-0.07*	-0.18
21	DB 533 x DB 534 F4 IPS 55	-86.21	0.33	0.150	-0.11	2.77	0.19	-0.69**	0.86	-0.59	-0.20	0.01	0.49	0.18**	1.98**
22	DB 533 x DB 534 F4 IPS 17	311.05*	-11.29*	-0.100	-0.57	-2.94	0.06	-0.24	-3.46	0.17	2.75*	1.34**	5.21**	0.1**	0.23
23	DB 533 x DB 534 F4 IPS 32	320.04*	-6.50	-0.27**	-0.32	-3.40*	0.18	0.10	-2.60	1.17**	0.66	0.56*	2.78**	-0.01	-0.42
24	DB 533 x DB 534 F4 IPS 38	211.93	-3.08	0.020	0.43	-4.32**	-0.12	0.73**	2.43	0.4	-0.19	0.52	1.61	0.08*	-0.29
25	DB 533 x DB 534 F4 IPS 48	225.48	-6.41	0.4**	0.68	-1.07	-0.31	-0.13	-3.37	-0.19	0.97	0.75**	3.59**	0.00	0.59
26	DB 533 x DB 534 F4 IPS 13	349.48**	-5.79	0.18*	-1.24	-4.9**	0.11	-0.04	-1.60	0.41	0.71	-0.16	4.19**	0.00	0.18
27	DB 533 x DB 534 F4 IPS 6	258.82*	2.33	-0.21*	-0.82	3.64*	-0.02	0.30	2.90	-0.28	1.42	-0.11	3.07**	0.00	0.11
28	DB 533 x DB 534 F4 IPS 8	363.15**	-8.33	-0.090	-0.07	-2.9	0.04	0.25	-1.81	-0.21	1.36	0.25	3.61**	0.2**	0.59

Continued Table 3

Sl.No	Parents	Seed cotton yield (kg/ha)	Plant height (cm)	No. of monopodia	No. of sympodia	No. of bolls	Mean boll weight (g)	Reproductive Points on sympodia	Length of sympodia at 50 % height (cm)	Seed index (g)	Ginning outturn (%)	Lint index (g)	Photosynthetic rate ( $\mu\text{mol CO}_2 \text{ m}^{-2} \text{ s}^{-1}$ )	Stomatal conductance ( $\mu\text{mol m}^{-2} \text{ s}^{-1}$ )	Transpiration rate ( $\text{mmol H}_2\text{O m}^{-2} \text{ s}^{-1}$ )
	SE (gi)	129.59	5.18	0.08	1.08	3.10	0.18	0.17	2.21	0.30	1.06	0.27	0.86	0.04	0.41
	SEd (gi-gj)	183.27	7.32	0.12	1.53	4.39	0.25	0.24	3.12	0.43	1.51	0.38	1.22	0.05	0.58
	CD at 5%	378.40	15.12	0.24	2.87	8.86	0.52	0.48	6.43	0.93	3.05	0.79	2.28	0.07	0.76
	CD at 1%	498.10	19.91	0.31	3.78	11.66	0.68	0.64	8.47	1.22	4.02	1.04	3.00	0.09	1.01
	Females														
1	DH 98-27	94.65**	0.53	-0.05	0.13	1.37**	-0.01	0.09	0.59	0.14	-0.48	0.04	-0.53	-0.02	-0.19
2	ZCH 8	-52.66	1.48	-0.01	-0.14	-0.45	0.03*	-0.17**	-0.38	-0.05	0.15	-0.27**	0.36	0.03 *	0.20
3	178-24	-77.43**	-2.63	0.00	-0.28	-1.87**	-0.05**	0.10	-0.22	0.34**	0.57	0.21*	-1.3**	-0.07 **	-0.56**
4	DH 18-31	35.44	0.62	0.06*	0.29	0.95**	0.02	-0.02	0.02	-0.43**	-0.24	0.02	1.47**	0.05 **	0.55**
	SE (gi)	48.98	1.96	0.03	0.41	1.17	0.07	0.06	0.83	0.11	0.40	0.10	0.33	0.01	0.16
	SEd (gi-gj)	69.27	2.77	0.04	0.58	1.66	0.10	0.09	1.18	0.16	0.57	0.14	0.46	0.02	0.22
	CD at 5%	143.0233	5.72	0.09	1.08	3.35	0.20	0.18	2.43	0.35	1.15	0.30	0.86	0.03	0.29
	CD at 1%	188.2653	7.52	0.12	1.43	4.41	0.26	0.24	3.20	0.46	1.52	0.39	1.13	0.03	0.38

Note: \* Significant at P = 0.05 \*\* Significant at P = 0.01