

Table 2 General combining ability (gca) effects of parents in respect of 13 characters

Sl. No	Characters	X ₁	X ₂	X ₃	X ₄	X ₅	X ₆	X ₇	X ₈	X ₉	X ₁₀	X ₁₁	X ₁₂	X ₁₃
Females (Lines)														
1	L1	2.47**	2.77**	14.27**	3.35**	2.17	-0.34	0.41**	0.10	-0.76	5.62**	9.69**	-2.81	1.67**
2	L2	0.30	0.60	8.60**	7.02**	3.50**	1.49**	0.14	-1.22*	1.28	2.95*	5.55**	-2.03	2.56**
3	L3	1.47*	2.10**	0.27	0.52	0.50	0.67**	0.07	-0.19	1.83	0.78	0.44	-10.31**	-0.33
4	L4	-0.70	-0.57	-13.57**	-9.48**	-0.83	-0.17	0.02	0.23	0.21	-0.88	0.97	1.01	-1.80**
5	L5	-1.20	-1.40	-8.07**	-6.32**	-0.50	-1.05**	-0.06	0.35	-1.47	-3.55**	-4.89**	0.24	-2.38**
6	L6	-1.20	-1.57*	-9.57**	-3.32**	-1.50	0.18	-0.08	-0.05	-0.59	-2.72*	-6.10**	1.06	-0.50
7	L7	0.13	0.10	-2.90*	-4.65**	-1.83	1.03**	-0.17*	-0.85	0.39	2.78*	3.94**	3.55**	-0.83
8	L8	-0.87	-1.57*	7.77**	3.85**	-3.50**	-0.86**	-0.28**	-0.65	0.96	-0.22	-0.97	2.49*	-0.63
9	L9	-0.53	-1.23	1.10	1.68	-0.67	-1.05**	-0.14	-0.72	-1.27	-3.72**	-4.33**	3.64**	-1.05*
10	L10	0.13	0.77	2.10	7.35**	2.67*	0.12	0.08	3.01**	-0.57	-1.05	-4.29**	3.16**	3.28**
Males (Testers)														
1	KDMI-10	-0.53	-0.88*	-3.62**	-2.98**	-0.57	1.82**	-0.07	0.14	-1.30*	0.28	-0.57	1.00	-0.31
2	KDMI-16	0.07	0.42	-1.12	-1.88**	0.08	-0.93*	0.01	-0.18	0.97	0.28	2.40**	-1.75**	-0.07
3	CI-5	0.47	0.47	4.73**	4.87**	0.48	-0.89*	0.06	0.04	0.33	-0.57	-1.82**	0.76	0.38
	CD at 5% female	1.29	1.48	2.48	2.07	2.29	0.42	0.15	1.19	2.03	2.49	2.15	1.59	1.02
	CD at 1% female	1.74	2.00	3.35	2.78	3.09	0.56	0.21	1.61	2.73	3.36	2.89	3.25	1.37
	S.Em±	0.63	0.72	1.21	1.01	1.12	0.20	0.07	0.58	0.99	1.22	1.05	4.39	0.50
	CD at 5% male	0.71	0.81	1.36	1.13	1.25	0.23	0.08	0.65	1.11	1.37	1.18	0.87	0.56
	CD at 1% male	0.96	1.09	1.83	1.52	1.69	0.31	0.11	0.88	1.50	1.84	1.58	1.78	0.75
	S.Em±	0.35	0.40	0.67	0.55	0.61	0.11	0.04	0.32	0.54	0.67	0.57	2.40	0.27

Note: * Significant at 5% level; ** Significant at 1% level; X₁: Days 50% tasseling; X₂: Days 50% silking; X₃: Plant height (cm); X₄: Ear height (cm); X₅: Days to 75% BHM; X₆: Ear length (cm); X₇: Ear girth (cm); X₈: No. of kernel rows per ear; X₉: No. of kernels per row; X₁₀: 100-grain weight (g); X₁₁: Grain yield (q/ha); X₁₂: Shelling (%); X₁₃: Fodder yield (t/ha)