

Table 1 Mean square of various treatment components, estimates of components of variances for 15 different traits in 30 hybrids

Traits	Rep.(2)	Lines(9)	Testers (2)	L × T (15)	Error (58)	gca variance ( $\sigma^2_g$ )	sca variance ( $\sigma^2_s$ )	$\sqrt{\sigma^2_s/2\sigma^2_g}$	$\sigma^2_g/2\sigma^2_g+\sigma^2_s$	$\sigma^2_A$	$\sigma^2_D$	$\sigma^2_n$ (%)	a (%)
DF	45.88**	1465.33**	52.08	49.76**	17.94	36.37	10.66	0.38	0.87	72.71	10.66	81.42	15.85
PH	11.18	1404.34**	42.62*	30.14**	11.43	35.56	6.49	0.30	0.92	71.11	6.49	87.62	16.26
PBT	3.74	251.94**	10.04*	2.53	2.99	6.59	-	0.02	1.00	13.17	-	93.98	7.25
FLA	4.32	4303.76**	135.01**	11.69	12.76	113.21	-	0.04	1.00	226.43	-	98.31	30.73
PL	0.44	256.15**	9.24	7.50**	2.12	6.42	1.87	0.38	0.87	12.84	1.87	83.71	6.75
PW	0.02	11.12**	0.32**	0.04*	0.02	0.29	0.01	0.08	0.98	0.58	0.01	97.77	1.55
S/P	11.51	55959.11**	1307.21**	314.14**	119.19	1452.25	52.17	0.13	0.98	2904.52	52.17	96.52	109.07
SF	31.98*	390.20**	15.11	31.93*	16	8.76	2.83	0.40	0.86	17.51	2.83	62.19	6.79
TW	1.59**	142.15**	15.52**	3.15**	0.47	3.88	0.92	0.34	0.89	7.76	0.92	88.08	5.38
BY	98.16**	5033.90**	287.93**	86.44**	33.64	132.03	18.08	0.26	0.94	264.05	18.08	90.16	31.78
HI	87.02**	391.85**	13.02	25.10	22.96	9.09	1.72	0.31	0.91	0.31	18.19	68.49	7.27
GY	1.56	651.94**	31.44**	7.41**	3.29	17.14	1.46	0.21	0.96	34.28	1.46	93.27	11.65
KL	0.05	4.44**	0.27**	0.17**	0.03	0.11	0.05	0.46	0.81	0.23	0.05	79.97	0.87
KB	0.02	0.96**	0.17**	0.09**	0.01	0.025	0.03	0.72	0.63	0.05	0.03	63.09	0.36
LBR	0.00	1.42**	0.05	0.03	0.02	0.04	0.01	0.26	0.89	0.07	0.01	87.33	0.52

Note: \*, \*\*: Significant at 5% and 1% level of probability, respectively, - denotes Negative estimates in the case of sca variance and additive variance