

Table 1 Analysis of variance for grain yield and its contributing characters in maize (*Zea mays* L.)

Sources of variation		Replications	Genotypes	1) Parents	2) Hybrids/Crosses	a) Lines	b) Testers	c) Line × Tester	3) Parents vs. Crosses	Error
d.f.		1	208	38	169	33	4	132	1	208
Mean sum of squares	Days to 50% tasselling	2.07	7.33**	10.25**	6.15**	10.67**	95.82**	2.3**	94.94 **	1.9426
	Days to 50% pollen shedding	3.66	6.84**	9.91**	5.57**	9.20**	86.64**	2.20**	104.25 **	1.9971
	Days to 50% silking	3.48	8.71**	12.31**	6.89**	11.02**	103.38**	2.93**	180.37 **	1.5861
	Days to 50% brown husk	3.09	7.48**	16.01**	5.46**	8.43**	70.88**	2.74**	24.55 **	1.7386
	Plant height (cm)	06.70*	32.36**	18.47**	12.36**	19.19**	71.31**	8.86**	3940.68 **	4.2
	Ear height (cm)	5.80*	22.03**	12.90**	13.44**	19.06**	65.67**	10.45**	1821.11 **	3.5
	Ear length (cm)	1.19	21.54**	15.64**	15.67**	23.32**	48.69**	12.76**	1238.12 **	0.4
	Ear diameter (cm)	0.63	14.82**	19.22**	5.66**	6.45**	15.05**	5.17**	1396.45 **	0.31
	Number of kernel rows per cob	1.59	9.01**	11.85**	6.60**	9.15**	45.73**	4.77**	308.46 **	0.73
	Number of kernels per row	0.04	10.30**	8.99**	6.19**	8.02**	21.93**	5.26**	752.89 **	2.1
	Test weight (g)	1.04	15.21**	9.49**	8.61**	8.16**	42.97**	7.68**	1348.77 **	2.0881
	Shelling percentage (%)	3.38	8.60**	7.61**	4.94**	8.29**	13.14**	3.85**	665.67 **	2.3296
	Grain yield per plot (kg)	0.35	32.93**	13.49**	16.89**	23.83**	47.60**	14.22**	3482.64 **	0.016

Note: *significant at P= 0.05 level; **significant at P= 0.01 level