

Table 1 AMMI analysis of variance for grain yield of 19 BILs and three check varieties tested at 3 locations in six environments

Source of Variations	DF	Sum of Squares	Mean Squares	F Ratio	Probability
Trials	131	147395184.00000	1125154.07634	1.529	0.01210 *
Genotypes	21	34403665.70058	1638269.79527	2.226	0.00424 **
Environments	5	35719678.82800	7143935.76560	9.707	0.00000 ***
G*E Interaction	105	77271839.47142	735922.28068		
PCA I	25	38703783.86849	1548151.35474	2.104	0.00486 **
PCA II	23	28463319.16030	1237535.61567	1.682	0.04049 *
PCA III	21	6204521.03914	295453.38282	0.401	0.99031
PCA IV	19	3207422.69518	168811.72080	0.229	0.99963
Residual	17	692792.70831	40752.51225	0.055	1.00000
Pooled residual	105	77271839.47142	735922.28068		

Comparison	S.E.D.	CD 5%	CD 1%	Variance	Variance %	Cumulative Variance %
Genotype Gi - Gj	258.6543	512.8659	678.5668	PCI 38703783.87	50.09 %	50.09 %
Environment Ei - Ej	495.2852	982.0634	1299.3565	PCAI 28463319.16	36.84 %	86.92 %
				PCAI 6204521.04	8.03 %	94.95 %
				PCAI 3207422.71	4.15 %	99.10 %
				Residual 692792.71	0.90 %	100.00 %