

July 2025]

Supplementary Table 1 IPCA score based on AMMI and GGE biplot analysis

Principal Components	AMMI analysis		GGE biplot analysis	
	Percentage of variance	Cumulative Percentage	Percentage of variance	Cumulative Percentage
IPCA1	54.1	54.1	46.8	46.8
IPCA 2	24.4	78.5	26.1	72.9
IPCA 3	15.2	93.7	14.4	87.3
IPCA 4	6.2	99.9	9.1	96.4
IPCA 5	0.1	100	3.7	100

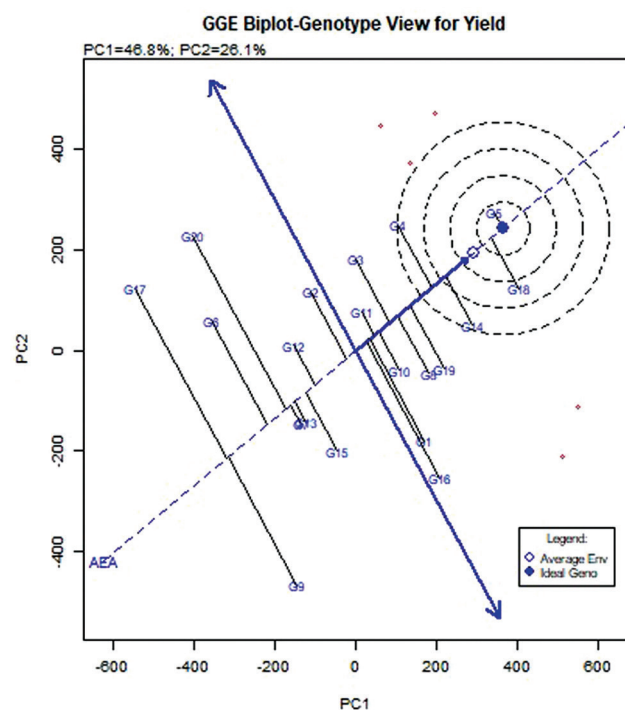


Fig. 1 GGE biplot-genotype view for seed yield.

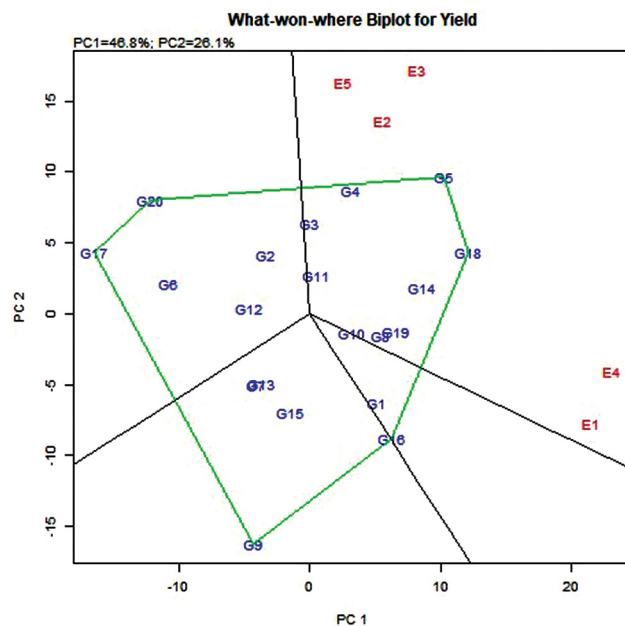


Fig. 3 What-won-where biplot for yield.

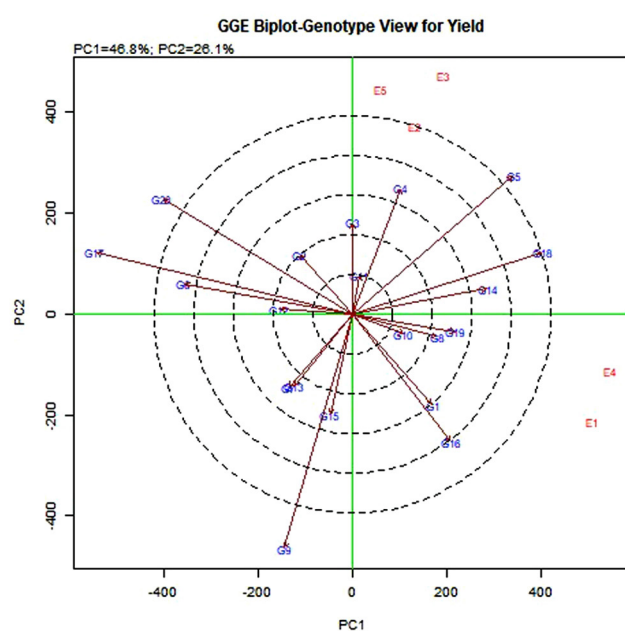


Fig. 2 Genotypic view for seed yield/plant.