Analysis of stability for some characters in soybean [Glycine max (L.) Merrill]

K. B. Eswari and M. V. B. Rao *
Agricultural Research Station, A.N.G.R.A.U., Madhira-507203, KHAMMAM (A.P.) INDIA

ABSTRACT
The phenotypic stability of 8 genotypes of soybean grown over three different environments (years) was studied for seed yield and various other component characters. Highly significant differences were observed among the environments for grain yield and days to maturity. Highly significant environment (linear) effects were observed for grain yield, number of branches per plant and days to maturity. The genotype x environment (linear) mean squares were highly significant for grain yield and days to maturity. The genotype LSb 3 was found to be stable for seed yield per plant, and all other component characters. The yield performance of the genotypes LSb 1, PK 1029, MACS 450 and JS 335 was found satisfactory, though yield level varied over the environments. Stable genotypes for other characters and suitable genotypes for different seasons were also identified.

Key words: Environment, Genotype, Glycine max L. Interaction, Stability.