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Stability analysis for yield and its contributing characters in green gram *Vigna radiata* (L.) Wilczek

Suman Pal Singh Sirohi
Chaudhary Charan Singh University, India

The present investigation was undertaken to understand the role of genotype and environmental interactions in the expression of various characters and stability of Mung bean genotypes in four environments. The significance of environmental component for all the characters in pooled analysis indicated existence of substantial differences among the four environments. Significant mean squares due to Genotype×Environment (G×E) interaction for all the characters except number of seed pods and 100 seed weight suggested that the genotypes showed considerable differential interaction with different environments. The pooled deviation was highly significant for all the characters except number of seed per pod 100 seed weight indicating that the response of genotypes taken for this study was not predictable and non-linear component played an important role in the development of the characters. The overall results of the stability across environment indicating their adaptation to rain-fed as well as irrigated conditions. Thus, role of environment and G×E interactions must be taken into account while devising implementing selection or breeding programs in Mung bean.

Biography

Suman Pal Singh Sirohi has completed his MPhil and PhD in Genetics and Plant Breeding from Chaudhary Charan Singh University, India. He is currently working as an Associate Professor in the Department of Genetics and Plant Breeding at Kisan PG College Hapur, India and has published more than 50 national and international research papers and journals.

drspssirohi9999@gmail.com

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