

Assessment of Variability Parameters under Moisture Stress Condition in Mungbean (*Vigna radiata* (L.) Wilczek)

K Sai Rekha, D M Reddy, K H P Reddy, V Raja Rajeswari and B Ravindra Reddy
Department of Genetics and Plant Breeding, S.V. Agricultural College, Tirupati 517 502, A P

ABSTRACT

Mungbean is an important crop to meet the challenges of food and nutritional security due to its nature of high protein and other micronutrients. To exploit the maximum yield potential of this crop, drought is considered as one of the most important constraint. Hence, an investigation was undertaken to estimate the genetic parameters on various yield, yield contributing traits and physiological parameters with 31 mungbean genotypes under moisture stress induced during pod filling stage for fifteen days. The results indicated that, based on mean performance for yield and its contributing characters, the genotypes VG-6197A, RMG-492 and LGG 450 were found to be good under simulated moisture stress condition. In the present investigation, high heritability coupled with high genetic advance as per cent of mean was recorded for relative injury, number of pods per cluster, seed yield per plant, chlorophyll content, 100-seed weight, number of pods per plant, plant height, number of clusters per plant, number of seeds per pod, harvest index and SLA indicating that these traits may be improved through simple selection methods.

Key words : Genetic advance as percent of mean, Heritability, Mungbean, Physiological traits.