

Genetic variability studies in Dolichos bean (*Dolichos lablab* L.var. *typicus*) genotypes

V. Chaitanya, P. Karthik Reddy and R.V.S.K. Reddy

Received October 3, 2013 and Accepted January 13, 2014

ABSTRACT : Forty eight vegetable pole type dolichos bean (*Dolichos lablab* L.var. *typicus*) germplasm lines were evaluated in a replicated experiment at NBPGR Regional station, Hyderabad for pod yield, yield attributing characters and qualitative characters during 2010-11. Analysis of variance, range, mean, genotypic and phenotypic coefficients of variability, heritability and genetic advance were estimated for 19 quantitative characters in dolichos bean. Analysis of variance revealed highly significant differences for all traits studied. High genetic variability was noticed for marketable pod yield per plant, number of pods per plant, number of pods per inflorescence, number of inflorescences per plant, length of inflorescence, number of flowers per inflorescence, plant height, pod weight, pod length, 100 seed weight. High values of heritability as well as high genetic advance were recorded for all the characters except for days to first pod harvest, pod width and number of seeds per pod indicating additive action of genes controlling them.

Key Words : Genetic variability, Dolichos bean (*Dolichos lablab* L.var. *typicus*) genotypes