



Research Paper

Article history :

Received : 23.04.2013

Revised : 03.09.2013

Accepted : 18.09.2013

Genetic variability, correlation and path co-efficient analysis studies in fenugreek (*Trigonella foenum-graecum* L.)

■ YOGENDRA YADAV¹, PREM SHANKER YADAVA, V.P. PANDEY¹ AND ADESH KUMAR¹

Members of the Research Forum

Associated Authors:

¹Department of Vegetable Science,
Narendra Deva University of
Agriculture and Technology,
Kumarganj, FAIZABAD (U.P.) INDIA
Email : yogendray716@gmail.com;
vppandeynduat2012@gmail.com;
adesh.kumar36@gmail.com

Author for correspondence :

PREM SHANKER YADAVA
Department of Vegetable Science,
Narendra Deva University of
Agriculture and Technology,
Kumarganj, FAIZABAD (U.P.) INDIA
Email : premvegetable@gmail.com

ABSTRACT : Genetic variability, correlation and path co-efficient analysis between yield and its component traits were carried out in 30 genotypes of fenugreek (*Trigonella foenum-graecum* L.) at Faizabad (U.P.). Highly significant differences between genotypes were recorded for all the characters studied. High estimates of PCV along with GCV as well as heritability and genetic advance (GA) were observed for seed yield per plant. High heritability along with moderate genetic advance was recorded for test weight. High heritability along with low genetic advance was recorded for pods per plant, plant height, length of pod and seeds per pod. Moderate heritability accompanied with high genetic advance was recorded for branches per plant. Plant height showed positive and highly significant correlation association with number of branches per plant, test weight and seed yield per plant. Path co-efficient analysis revealed that test weight, number of seeds per pod, number of pods per plant and plant height had positive and direct effect on seed yield. It was concluded that improvement in the seed yield of fenugreek is possible through selection for test weight, number of seeds per pod, number of pods per plant.

KEY WORDS : Fenugreek, Heritability, Variability, Yield

HOW TO CITE THIS ARTICLE : Yadav, Yogendra, Yadava, Prem Shanker, Pandey, V.P. and Kumar Adesh (2013). Genetic variability, correlation and path co-efficient analysis studies in fenugreek (*Trigonella foenum-graecum* L.). *Asian J. Hort.*, 8(2) : 456-459.