

ESTIMATES OF VARIABILITY PARAMETERS FOR YIELD AND ITS COMPONENTS IN LINSEED (*LINUM USITATISSIMUM* L.)

Ayodhya Pandey, S.P. Mishra* and S.K. Yadav

Chhatisgarh Agriculture College, Bhilai, Durg

*Department of Crop Sciences Faculty of Agriculture, Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya, Chitrakoot, Satna. - 485 780 (M.P.)

Email : nisraj.pandey@gmail.com

Received-15.01.2015, Revised-02.02.2015

Abstract: The present study of genetic variability was carried out using 30 genotypes of linseed for 10 quantitative characters. The results showed significant differences and wide range of variability for all the characters. The seed yield per plant was recorded highest values for phenotypic and genotypic coefficients of variation followed by number of capsules per plant. The high heritability coupled with high genetic advance as percent of mean was observed for seed yield per plant, test weight, capsules per plant, plant height, branches per plant, days to first flowering and days to 50% flowering indicated the predominance of additive gene action in the expression of these traits and can be improved through individual plant selection.

Keywords: Linseed, Variability, Heritability

REFERENCES

- Agropedia** (2010). Revision of Etymology of Flax Fri. 14.05.2010-11:25.
- Anonymous** (2009-10). Annual Report, 2009-10. Directorate of Oilseed Research (ICAR), Rajendranagar, Hyderabad.
- Burton, G.W. and de Vane, E.H.** (1953). Estimating heritability in tall fescue (*Festuca arundinacea*) from replicated clonal material. *Agron. J.*, 45: 478-481.
- Dubey, S.D., Srivastava, R.L., Singh, Kamlesh and Malik, Y.P.** (2007). Genetic variability and correlation coefficient studies in linseed. National Seminar on Changing Global Vegetable Oils Scenario: Issues and Challenges before India held from Jan. 29-31, 2007, DOR, Hyderabad.
- Johnson, H.W., Robinson, H.F. and Comstock, R.E.** (1955). Genotypic and phenotypic correlations in soybean and their implications in selection. *Agron. J.*, 47: 477-483.
- Naik, B.S. and Satapathy, P.C.** (2002). Selection strategy for improvement of seed yield in late sown linseed. *Research on Crops*. 3 (3): 599-605.
- Rao, S.K and Singh, S.P.** (1985). Relationship of maturity with seed characteristics and their implications in selection of linseed. *J. Oilseed Res.*, 2: 86-92.
- Savita, S.G., Kenchanagoudar, P.V., Parameshwarappa, K.G.** (2007). Genetic variability, heritability and genetic advance studies in linseed. National Seminar on Changing Global Vegetable Oils Scenario: Issues and Challenges before India held from Jan. 29-31, 2007, DOR, Hyderabad, pp 93-95.

*Corresponding Author