

Performance of plant and yield characters of parents and hybrids of okra (*Abelmoschus esculentus* (L.) Moench) through diallel analysis

V. Manju Vani¹, B.K. Singh¹, Anand K. Singh¹, B.V. Raj Kumar¹, Deepak Kumar Jaiswal², Anil Kumar¹ and Sanjay Kumar Viswakarma¹

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ABSTRACT : A field experiment consisting of 12 genotypes of okra was conducted at the Vegetable Research Farm, Department of Horticulture, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi during the summer and rainy seasons of 2013. All possible crosses were made to obtain F₁ seed by following half diallel analysis. The F₁ seed along with their parents was evaluated. The experiment was laid out in randomized block design with three replications. Data was collected for some plant and yield characters. It can be concluded that among the 66 hybrid combinations, IC- 45802×Pusa – A4 (5 × 11) topped in yield, followed by IC- 45802×Pusa – A4 (5 × 12). Based on the trial conducted the two hybrid combinations viz. 5 × 11 and 5 × 12 have been adjudged as superior in respect of yield per plant and other component traits. It can also be observed that in the entire better hybrids, one or both of the parents exhibited better results.

Key Words : Okra (*Abelmoschus esculentus* L.), IC- 45802 and Pusa–A4, diallel analysis, heterosis.