

Manifestation of heterobeltiosis in okra [*Abelmoschus esculentus* (L) Moench] for yield and yield attributes

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ABSTRACT : Twenty diverse genotypes of okra were crossed in line x tester mating design in RBD with 17 lines and three testers to estimate the heterotic parameters. Heterosis estimation in the present study indicated the presence of high magnitude of heterobeltiosis and standard heterosis in hybrids for fruit yield and quality components, thus advocating the exploitation of heterosis in F₁ hybrids at commercial level in okra. The crosses HRB-55 × Pusa Sawani had high heterosis for plant height. VRO-6 × Pusa Sawani were promising for stem diameter, the cross Larm-1 x Punjab-7 had high Heterosis for no of fruits that has direct contribution to total yield per plant hence was noted to be the best performing hybrid. Highest desirable heterosis expression over standard variety was observed for fruit yield per plant.

Key Words: Genotypes, heterobeltiosis in okra, Line x Tester mating, RBD, superior heterosis.