

# Line x tester analysis for heterosis in okra [*Abelmoschus esculentus* (L.) Moench]

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Thirteen genetically diverse parents collected from the different parts of the country and their 36 crosses generated by using line x tester mating design, was undertaken to study the heterosis and heterobeltiosis for fruits yield and its contributing characters in okra. Majority of the hybrids exhibited significant and positive heterosis over mid-parental value and over better parent for most of the traits. Seventeen hybrids showed significant and positive heterobeltiosis for fruit yield per plant. The cross combination Parbhani Kranti x D-1-87-5 exhibited the highest heterobeltiosis (184.27%) for fruit yield per plant. Manifestation of heterosis by this particular cross combination was also realized for all the characters except for days to flowering and number of nodes per plant. The heterosis over better parent for yield per plant was mainly due to longer and thicker fruits coupled with more number of fruits per plant.

**Key words :** Heterosis, Heterobeltiosis, Line x tester mating design, Okra

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