



## Estimation of heterosis in linseed (*Linum usitatissimum* L.)

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**Abstract :** A field experiment was conducted during 2008 at Experimental Research farm Nawabganj, C. S. Azad University of Agriculture and Technology, Kanpur (U.P.), to estimate the effect of heterosis in different genotypes of linseed viz., RLC-29 or Sheetal, LCK-88062, EC-1465 and Kangra Local for different characters. A significant heterosis over better parent was observed in cross LCK-88062 x EC-1465 for days to flowering, days to maturity. Crosses LCK-88062 x Kangra Local showed positive heterosis for plant height, number of tillers and number of primary branches per plant. Sheetal x EC-1465 cross for number of capsules per plant, three crosses (Sheetal x LCK-88062, Sheetal x Kangra Local and EC-1465 x Kangra Local) for test weight and two crosses showed positive results (LCK-88062 x EC-1465 and LCK-88062 x Kangra Local) for seed yield per plant. The heterosis over economic parent (sheetal) showed significant results. Cross LCK-88062 x Kangra Local for plant height, crosses Sheetal x LCK-88062, Sheetal x EC-1465 and LCK-88062 x Kangra Local for number of tillers per plant, number of primary branches per plant, number of seed per capsule and test weight, two crosses viz., Sheetal x LCK-88062 and EC-1465 x Kangra Local for seed yield per plant.

**Key Words :** Heterosis, Linseed

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