

# Heterosis studies in Dual Purpose Sorghum [*Sorghum bicolor* (L.) Moench]

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## ABSTRACT

Thirty hybrids of sorghum derived from 10 lines and 3 testers, their parents and checks were grown in randomized block design with three replications. Analysis of variance revealed highly significant differences among the genotypes viz., parents, crosses and parents Vs crosses for all the characters. SPV 1714 x HC 308 recorded highest significant relative heterosis and heterobeltiosis and SPV 1782 x HC 308 recorded the highest standard heterosis for grain yield. For stover yield SPV 1782 x HC 308 recorded highest relative heterosis and heterobeltiosis, while SPV 1754 x CSV 15 and SPV 1730 x HC 308 recorded the highest significant standard heterosis. Among the crosses SPV 1782 x HC 308 and SPV 1754 x HC 308 recorded significant standard heterosis for 9 and 8 characters respectively.

**Key words :** Dual purpose, Heterosis, Sorghum, *Sorghum bicolor*