

Line × Tester analysis in dual purpose sorghum **[*Sorghum bicolor* (L.) Moench]**

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ABSTRACT

Thirty F₁ crosses generated by crossing ten lines with three testers in line x tester mating design and their thirteen parents were evaluated in randomized block design replicated thrice at Agricultural College Farm, Bapatla during *rabi* 2006 -2007. SPV 1782, SPV 1714, SPV 1754 and SPV 1616 among lines and CSV 15 among testers were found to be good general combiners. SPV 1782 x HC 308, SPV 1730 x HC 308 and SPV 1616 x CSH 16 were found to be good specific combiners. Grain yield and leaf crude protein content were governed by additive gene action. Green forage yield at 50% flowering, 1000 grain weight, grain crude protein content and leaf breadth were under the control of both additive and non additive gene action. Remaining characters were under the control of non additive gene action.

Key words : Combing ability, Dual purpose sorghum, gca, Line x Tester, scap