

Combining Ability Analysis of Yield Traits in Greengram Under Late Rice Fallows

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ABSTRACT

A line X tester in greengram under late fallows situation indicated for both gca and sca were equally important for most of the traits under considerations including yield per plant. Among the lines Pusa-9672 and among the testers LGG – 407 were good general combiners for yield per plant in addition to other yield contributing traits . Among the cross combinations LGG – 460x LGG- 407 , MGG-341x LGG-407 , Pusa-9672xWGG-2 , Pusa-9672 X TARM-21 , Pusa-9672xLGG-440 and LocalxLGG-440 showed good specific combining ability for most of the traits in desired direction , combined with high mean values for seed yield per plant . These cross combinations should be suggested in breeding programmes involving cyclic hybridization to isolates transgressive segregates in the further generations for the development of superior cultivars suitable for late rice fallows situation under Pennar delta of Andhra Pradesh .

Key words : Combining Ability , Greengram, LXT Design Late Rice Follows.