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RESEARCH **P**APER

Heterosis studies for grain yield and it's contributing traits in fieldpea [*Pisum sativum* (L.) var *arvense*.]

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A field experiment was conducted to study the extent of heterosis in fifty five genotypes of fieldpea including ten parents and their forty five F_1 's developed through half diallel mating design. Based on overall study of forty five hybrids for heterobeltiosis and economic heterosis the cross HUDP 954 x LFP 477 followed by HFP-4 x IPFD 10-13 and IPFD-1-10 x LFP 477 were found best heterotic combinations for yield and its contributing traits *viz.*, number of pods per plant, number of seeds per pod, number of primary branches, test weight and harvest index in fieldpea. These crosses could be exploited for isolating useful transgressive segregants in fieldpea.

Key words : Heterosis, Heterobeltiosis, Fieldpea

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