

Influence of Plant Population and Varieties on Growth and yield of Clusterbean (*Cyamopsis tetragonaloba*) in Vertisols of A. P

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ABSTRACT

A field experiment was conducted at Regional Agricultural Research station, Lam Farm, Guntur during kharif, 2012 season to find out the optimum plant population and suitable varieties of clusterbean for vertisols of Andhra Pradesh under rain fed condition. Number of branches, clusters and pods per plant increased by 18%, 15% and 24% respectively, under wider spacing (60x20cm) when compared with closer spacing (60x10cm). Though the no. of branches, clusters and pods per plant recorded were lower under closer spacing, as the plant stand was double and that has contributed for increased yield by 31% (853kg/ha) when compared to wider spacing (593kg/ha) . GG 1 recorded the highest grain yield (820 kg/ha) which was significantly superior to all the other varieties tested (RGC 936, RGC 1033, GG2 and RGC 1038) in vertisols of Andhra Pradesh under rain fed situation. Similar trend was also observed in respect of BCR.

Key words : Clusterbean, Plant Population and Vertisols.