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Yield and water use of chickpea (*Cicer arietinum* L.) as influenced by irrigation and land configuration

K.B. PATEL, Y.N. TANDEL* AND M.K. ARVADIA
Department of Agronomy, N.M. College of Agriculture, Navsari Agricultural University,
NAVSARI (GUJARAT) INDIA

ABSTRACT

Field experiment was conducted in *rabi* season on clay soil of College Farm, Gujarat Agricultural University, Navsari to find out the effect of irrigation and land configuration on yield and water use of chickpea. The results revealed that irrigation applied at 0.8 IW/CPE ratio resulted in significantly higher seed and haulm yield of chickpea over other ratios of irrigation but it remained at par with frequent irrigation at 1.0 IW/CPE ratio. Also there was the drastic reduction in water use efficiency with the increase in frequency of irrigation. While in method of sowing, ridges and furrow method of sowing produced significantly higher seed and haulm yield of chickpea with maximum water use efficiency.

Key words : Chickpea, Irrigation, Land configuration, Yield

*** Author for correspondence**