

Effect of Supplemental Irrigation on Growth and Yield of Chickpea

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ABSTRACT

An on farm trial was conducted at N.Agraharam and Vajjireddypalem of Prakasam district during Rabi 2007-2008 to 2009-2010 on Bengalgram crop. The test treatments for improved production technology were sprinkler irrigation at 30DAS and 50DAS in contrast to farmers practice (rain fed). The supplemental irrigation with sprinkler at 30DAS and 50DAS recorded the higher yield (2575kg/ha) by 14.44 per cent as compared to farmers practice (2150 kg/ha). Improved technology increased yields at both villages compared to farmers practice. The sprinkler irrigation also enabled the farmers to accrue Rs.6115 ha. additional net income. The B: C ratio was 1:2.67 and 1:2.45 at N.Agraharam and Vanjii reddy palem respectively, with improved practice compared to 1:2.58 and 1:2.26 with farmers practice.

Key words : Bengal gram, Supplementary irrigation, Yield.