



RESEARCH PAPER

Effect of foliar fertilization of soluble fertilizer and times of sowing on the crop growth and yield of greengram in rainfed vertisols

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Abstract : The field experiments were conducted during 2011-12, 2012-13 and 2013-14 in *Rabi* season (October - January) at Agricultural Research station, Kovilpatti, Tamil Nadu to study the response of greengram to foliar fertilization and different times of sowing under rainfed situation. The results of the experiment revealed that sowing during 39th standard week registered increased growth and yield parameters *viz.*, DMP, LAI, number of pods/plant, pod length, number of seeds/pod which reflected on increased grain yield. Significantly lower grain yield was recorded by seeds sown in the 43rd standard week. Similarly among the foliar spraying of different soluble fertilizer and biofertilizer tried, seed treatment with *Rhizobium*, PSB and *Methylobacterium* (600 g/ha each) and foliar application of *Methylobacterium* (2 ml / lit) on 30 and 45 DAS (F₇) recorded significantly increased growth and yield attributes and yield of the crop which was followed by seed treatment with *Rhizobium* and PSB (600 g/ha each) + 2% KCL + 100 ppm boric acid foliar spray on 30 and 45 DAS (F₆).

Key Words : Dates of sowing, Foliar fertilization, Greengram, *Methylobacterium*, Yield

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