RESEARCH ARTICLE

INFLUENCE OF CROP CONFIGURATION AND SEED RATE ON YIELD ATTRIBUTES, YIELD AND QUALITY OF SOYBEAN [*GLYCINE MAX* (L.) MERRILL]

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Abstract: A field experiment was carried out during *kharif* 2014 to investigate the effects of crop configuration and seed rates on yield and yield components of soybean. Experiment was conducted in the split plot design with four crop configuration (Broadcast method of sowing, Cross sowing 30 cm apart, Closed space sowing 20 cm apart and Recommended Spacing of sowing at 30 cm) as main plot and four seed rates (50, 65, 80 and 95 kg/ha) as sub plot. Results revealed that significantly higher number of pods and seeds per plant, seed and stover yield, Productivity rating index (PRI) and Production efficiency (PE) were obtained in recommended spacing of sowing at 30 cm. Crop sown with seed rate 95 kg ha^{-1} recorded significantly highest seed and stover yield, PRI and PE and was at par with 80 and 65 kg ha^{-1}. Number of seeds pod^{-1}, 100 seed weight, oil and protein content were not affected significantly by crop configuration and seed rates. Interaction between recommended spacing of sowing at 30 cm and 65 kg seed ha^{-1} gave highest seed yield which was at par with seed rate 80 and 95 kg ha^{-1}.

Keywords: Crop configuration, Seed rate, Soybean, Yield

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