

INFLUENCE OF SOWING DATES AND PLANT DENSITIES ON GROWTH PARAMETERS OF SOYBEAN (*GLYCINE MAX* (L.) MERRILL)

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Abstract: A field experiment was conducted during *kharif* season, 2014 to study the influence of different sowing dates and plant densities on growth parameters of soybean. It was comprised of nine treatments with three sowing dates (June 28, July 14 and July 29) as main plot treatments and three row spacing of soybean (30 cm x 10 cm, 45 cm x 10 cm and 60 cm x 10 cm) as sub plot treatments and replicated three times. Plant height, dry matter production, leaf area index (LAI), and Days to 50 per cent flowering increased with early sowing crop on June 28 than other two delayed sowings July 14 and July 29. July 14 sown crop is on par to June 28 sown crop. Growth parameters of soybean were inconsistent with different row spacings. The highest plant height, dry matter production and leaf area index (LAI) was recorded at a spacing of 30 X 10 cm, more number of days to 50 percent flowering were recorded at spacing of 60 cm x 10 cm.

Keywords: Sowing dates, Plant densities, Soybean, Growth parameters

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