



## RESEARCH PAPER

# Influence of spacing and different seed rates on growth, yield and economics of linseed under irrigation

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**Abstract :** Row spacing and seed rate are management practices that affect flax seed yield. Hence to find out the optimum quantity of seed rate and spacing for higher production in irrigated linseed, the present experiment was conducted under AICRP on Linseed, College of Agriculture, Nagpur during the Rabi Season of 2019-20. The Experiment was laid out in Factorial Randomized Block Design with three replications in which Factor A consist of two spacing *i.e.*  $T_1$  - 30 cm and  $T_2$  - 45 cm and Factor B includes four seed rate  $S_1$ - 10 kg/ha,  $S_2$ - 15 kg/ha,  $S_3$ - 20 kg/ha,  $S_4$ - 25 kg/ha. Results showed significant effects of seed rates and spacing on all growth and yield attributes, which reflecting the importance of seeding rate and spacing for linseed. Maximum plant height was recorded after using the seed rate at 25 kg/ha ( $S_4$ ) and with 30cm spacing ( $T_1$ ) which was at par with seed rate 20 kg/ha ( $S_3$ ). The other growth parameters like number of branches, number of capsules per plant and test weight was found higher in the treatment having the seed rate of 10 kg/ha ( $S_1$ ) and in the spacing of 45cm ( $T_2$ ). Seed yield of linseed was recorded highest by using the seed rate at 15 kg/ha, which was at par with at the seed rate of 20 kg/ha and in the closer spacing of 30cm between rows *i.e.* 9.15% more as compare to row spacing of 45cm. Gross monetary returns, net monetary returns and B:C ratio was also recorded maximum in the seed rate of 15 kg/ha and with 30cm row spacing. It is concluded that advancement in seed rate by lowering down up to 15 kg/ha increases the productivity and profitability of linseed.

**Key Words :** Linseed, Seed rate, Spacing, Growth, Yield

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