

# Optimization of Seed Rate and Foliar Nutrition for Seed Crop of Dhaincha

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## ABSTRACT

A field experiment was conducted on “*Optimization of seed rate and foliar nutrition for seed crop of dhaincha*” during *rabi*, 2015-16 on sandy loam soil of Agricultural College Farm, Naira. The experiment was laid out in split plot design and it was replicated thrice. Treatments comprised of three main plots *viz.*, (15, 20 and 25 kg ha<sup>-1</sup>) and four sub plots consists of foliar application of three fertilizers (19-19-19 @ 1% (F<sub>1</sub>), KNO<sub>3</sub> @ 1% (F<sub>2</sub>), DAP @ 1% conc. twice at one week before and after flowering) and with water spray. There was a progressive and significant increase in plant height and drymatter production seed yield, stalk yield, gross returns, net returns and B: C ratio with increase in seed rate from 15 to 20 and 25 kg ha<sup>-1</sup>. Yield attributes were significantly higher with lower seed rate of 15 kg ha<sup>-1</sup> compared to increased seed rates of 20 and 25 kg ha<sup>-1</sup>. Foliar application of DAP, 19-19-19 and KNO<sub>3</sub> at 1% concentration twice at one week before and after flowering significantly increased the plant height, drymatter accumulation, yield attributes, seed yield, stalk yield, gross returns, net returns and B: C ratio compared to water spray.

**Key words:** *Dhaincha seed crop, seed rates, foliar nutrition, growth, yield, economics.*