

RESPONSE OF OKRA [*ABELMOSCHUS ESCULENTUS* (L.) MOENCH.] TO INTRA-ROW SPACING IN NORTHERN HILLS OF CHHATTISGARH

Amit Dixit* and Okesh Chandrakar

Department of Horticulture
Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.) 492012
Email: amitdixit1872@yahoo.in

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Abstract: Field experiments were conducted *Kharif* season, during the years 2010 and 2011 planting seasons at the northern hills of Ambikapur Chhattisgarh, to evaluate the response of 'Arka Anamika' variety of okra to different intra-row spacing and to determine the optimal intra-row spacing that would maximize yield under northern hills conditions. The treatments consisted of three intra-row spacing (35 cm, 30 cm and 25 cm), replicated four times in a randomized complete block design. Results of the study showed that while the tallest okra height was produced from the intra-row spacing of 30 cm, the number of branches per plant, leaf area, pod length, pod diameter, number of pods per plant, pod weight and yield decreased as intra-row spacing reduced. The greatest yield was obtained from the intra-row spacing of 35 cm. The yield produced from the intra-row spacing of 35 cm was significantly ($P<0.05$) greater by 6.00 and 6.12 tone/ha respectively, in the year 2010 and 2011 compared to that obtained from the intra-row spacing of 30 cm and by 5.00 and 5.10 tone/ha respectively, in the year 2010 and 2011 compared to that produced from the intra-row spacing of 25 cm. The implication of this study showed that to maximize okra yield for variety 'Arka Anamika' the optimal intra-row spacing was found to be 35 cm and could therefore, be recommended for northern hills region of, Ambikapur C.G.

Keywords: Okra, Spacing, Yield, Variety

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*Corresponding Author

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