



## RESEARCH PAPER

# Effect of pinching and cycocel on growth and yield of African marigold (*Tagetes erecta* L.)

Abhayraj Singh Chundawat, A.S. Jodha, Damini Visen, Vishal Pareek, Sonia Jaiswani, Suryavardhan Singh, Chandraveer Singh and T.S. Champawat  
School of Agricultural Sciences (J.R.N.R.V.U.), Dabok, Udaipur (Rajasthan) India  
(Email : [abhayrajpakhad1999@gmail.com](mailto:abhayrajpakhad1999@gmail.com))

**Abstract :** A field experiment entitled “Effect of pinching and cycocel on growth and yield of African marigold (*Tagetes erecta* L.)” was conducted during *Rabi*, 2023-24 at Instructional Farm, School of Agricultural Sciences, Dabok, Udaipur. The experiment comprised of nine treatments viz., T<sub>1</sub> - (Control), T<sub>2</sub> - (Pinching at 30 DAT + No spray), T<sub>3</sub> - (Pinching at 45 DAT + No spray), T<sub>4</sub> - (No pinching + 500 ppm CCC), T<sub>5</sub> - (Pinching at 30 DAT + 500 ppm CCC), T<sub>6</sub> - (Pinching at 45 DAT + 500 ppm CCC), T<sub>7</sub> - (No pinching + 1000 ppm CCC), T<sub>8</sub> - (Pinching at 30 DAT + 1000 ppm CCC) and T<sub>9</sub> - (Pinching at 45 DAT + 1000 ppm CCC) replicated thrice in Randomized Block Design. Marigold variety Pooja Hybrid was used as a test crop. It was found that maximum value of growth parameters viz., number of primary branches plant<sup>-1</sup> (19.36), number of secondary branches plant<sup>-1</sup> (26.93), flowering parameters viz., days taken to budinitiation (42.25 days), days to 50% flowering (63.45 days) yield parameters and yield viz., flower diameter (5.23 cm), number of flowers plant<sup>-1</sup> (52.86), flower yield plot<sup>-1</sup> (6.10 kg) and flower yield ha<sup>-1</sup> (18.84 t) were recorded Pinching at 30 DAT along with foliar spray of cycocel @ 1000 ppm may be recommended for African marigold to obtain superior values of growth, flowering, yield attributes, yield and increased of African marigold.

**Key Words :** African marigold, Pinching, Spray of cycocel

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