



## RESEARCH PAPER

# Effect of growth inhibitors on Mrigbahar of Nagpur Mandarin (*Citrus reticulata* Blanco) during water stress in Malwa Plateau Zone of Madhya Pradesh

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**Abstract :** A field experiment was conducted at Krishi Vigyan Kendra, Farm Science Centre, Rajgarh, RVSKVV M.P. during 2019-20 and 2020-21 on a clay loam soil to find out the influence of growth inhibitors on Mrigbahar (Mansoon flowering) of Nagpur Mandarin during water stress period in Malwa plateau of M.P. The experiment was laid out in randomized block design (RBD). One hundred five uniform and healthy tree of mandarin planted at 6x6 m distance were selected under the experiment consisted of 07 treatments, viz Two growth retardants Chlormequat Chloride (2000, 3000 and 4000 ppm as foliar application), Pachlobutrazole (6, 9 and 12 g. as soil application) and Control (Water Spray only). The result of the experiment indicated that the maximum fruit weight (141.95 g/fruit), fruit yield (74.05 kg/plant), TSS content (10.91%) and Juice Percentage (54.59 %) was recorded with the spray of T<sub>2</sub> Chlormequat Chloride 2000 ppm as foliar spray at the time of just before flowering over control.

**Key Words :** Mandarin, Growth retardants, Foliar application, Growth, Yield parameters

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