



RESEARCH PAPER

Efficacy of micro-nutrients on growth and flower production of China aster [*Callistephus chinensis* (L.) NEES] cv. PRINCESS

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Abstract : The field trials were conducted during winter season of 2002-2003 to study the efficacy of micro-nutrients on growth and flower production of China aster [*Callistephus chinensis* (L.) NEES] cv. PRINCESS in plot A-7 of the R.B.S. College Agricultural Farm, Bichpuri, Agra in Randomized Block Design with nine treatments *i.e.* T₁- Control (Spray of zinc sulphate 0.0 %), T₂- (Spray of zinc sulphate 0.2%), T₃- (Spray of zinc sulphate 0.4%), T₄- (Spray of ferrous sulphate 0.0%), T₅- (Spray of ferrous sulphate 0.2%), T₆- (Spray of ferrous sulphate 0.4%), T₇- (Spray of copper sulphate 0.0%), T₈- (Spray of copper sulphate 0.2%), T₉- (Spray of copper sulphate 0.4%). It was observed that overall that maximum plant height was found in treatment T₅ (63.00cm), maximum diameter of main stem (cm) was recorded in treatment T₅ (3.09), maximum number of leaves was found in treatment T₅ (125.40), maximum plant spread along and across the row (cm) was found in treatment T₅ (38.34), maximum number of laterals was found in treatment T₅ (31.44), maximum length of longest leaf (cm) was found in treatment T₅ (10.69cm), maximum width of the longest leaf (cm) was found in treatment T₅ (7.34cm), maximum green weight of plant canopy at final was found in treatment T₅ (401.25), maximum dry weight of plant canopy at final was found in treatment T₅ (72.39), maximum date of visibility of flower bud was found in treatment T₅ (131.33), maximum date of colour break was found in treatment T₅ (139.29), maximum date of full blooming was found in treatment T₅ (160.07), maximum date of harvesting of floral heads was found in treatment T₅ (162.18), maximum fresh weight of floral head (g) was found in treatment T₅ (4.96), maximum length of floral head (cm) was found in treatment T₅ (3.20 cm), maximum width of floral head (cm) was found in treatment T₅ (6.21cm), maximum length of floral stalk (cm) was found in treatment T₅ (21.67cm) and maximum diameter of floral stalk (cm) was found in treatment T₅ (0.27cm).

Key Words : Copper sulphate, Growth, China aster, Zinc sulphate, Ferrous sulphate

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