



**RESEARCH ARTICLE :** **Effect of NPK and organic manures on plant growth, flower yield and flower quality parameters of jasmine (*Jasminum sambac*) var. Double mogra**

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NPK, Organic manures, Flower yield, Flower quality, Jasmine

**SUMMARY :** Jasmine is one of the important flower crop fetches heavy demand and oldest commercial for its fresh flower. The flower crop cultivated on commercial scale and is highly esteemed for its attractive and fragrant flowers and are popular in the world for its perfume. The present investigation entitled, “Effect of NPK and organic manures on Plant growth, Flower yield and Flower quality of Jasmine (*Jasminum sambac*) var. Double mogra.” was under taken at research field Department of Horticulture, Allahabad school of Agriculture, Sam Higginbottom Institute of Agriculture, Technology and Sciences (SHIATS), Allahabad during *Kharif* season (2015-2016). The experiment was layout in Randomized Block Design (RBD) with 13 treatments and each treatment replicated thrice. The treatments consist of different combinations of 75%, 50% and 25% RDF (120: 240: 240 g NPK plant<sup>-1</sup>) and Organic manures, FYM, Vermicompost and Neem cake (7: 2.5: 2 kg plant<sup>-1</sup>), including control (No fertilizers and manures) and 100% RDF. The treatment T<sub>6</sub> as (60:120:120 g NPK + 10.5 kg FYM plant<sup>-1</sup>) was found to be statistically significant compared to other treatment combination, which recorded Maximum plant height (71.25 cm), plant spread (24.12 cm), Number of leaves (85.16), Number of branches (15.08cm), Days to first flower bud initiation (123.22), Days for flower bud development (15.08), Duration of flowering (85.25 days), flower bud length (2.25 cm), flower bud diameter (2.50 cm), shelf life of loose flower (47.08 hours), followed by Treatment T<sub>7</sub> (60:120:120 g NPK + 3.7 kg Vermicompost plant<sup>-1</sup>) and lowest yield was obtained from T<sub>0</sub> (control), respectively.

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