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# Effect of different levels of pruning and micronutrient (Fe) on growth, flowering and cut flower yield of dutch rose (*Rosa hybrida* Linn.) cv. FIRST RED under greenhouse condition

■ **ALMAS<sup>1</sup>, A.V. BARAD AND G. MADHURI<sup>1</sup>**

**Members of the Research Forum**

**Associated Authors:**

<sup>1</sup>College of Agriculture, Junagadh  
Agricultural University, JUNAGADH  
(GUJARAT) INDIA

**ABSTRACT :** The present experiment on the effect of different levels of pruning and micronutrient (Fe) on growth, flowering and cut flower yield of Dutch rose (*Rosa hybrida* Linn.) cv. FIRST RED under greenhouse condition was carried out under poly house, at Department of Horticulture, College of Agriculture, Junagadh Agricultural University, Junagadh, during 2011-2012. The experiment comprised of ten treatments, viz., three pruning levels (heavy, medium and light) and three different levels of micro nutrients spray FeSO<sub>4</sub> (0.0%, 1.0% and 1.5%) and absolute control and replicated thrice in Factorial Completely Randomized Design. Among the different levels of pruning, the heavy pruning recorded maximum number of shoots, stem length of the flower, vase life, number of flowers per plant, per square meter and per hectare among the pruning levels. Light pruning recorded maximum plant height, shoot length, flower diameter and days to first flower bud appearance. However, medium pruning recorded maximum stem diameter and *in-situ* longevity. Among micronutrient levels maximum stem length, stem diameter, vase life, flowers per plant, per square meter and per hectare were observed in FeSO<sub>4</sub> 1 per cent. The shortest period noted to first flower bud appearance and first flower opening in FeSO<sub>4</sub> 1.5 per cent.

**KEY WORDS :** Dutch rose, Micronutrient, Greenhouse, Pruning

**Author for correspondence :**

**A.V. BARAD**

College of Agriculture, Junagadh  
Agricultural University, JUNAGADH  
(GUJARAT) INDIA

Email : [avbarad55@gmail.com](mailto:avbarad55@gmail.com)

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