Effect of Elemental Sulfur, Ferrous sulphate and Sequestrine (Fe-EDDHA) on Quantitative and Qualitative Characteristics of 'Oscar, Gladiolus.

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With regards to the importance of cut flower like Gladiolus for local consumptions and exports and sensitivity of ornamental plants to iron nutrition in calcareous soils with Alkaline pH and without to the complicated production technology of sequestrine which is expensive ,It is important to use internal substitued materials.

This investigation was conducted with different chemical fertilizers including elemental sulfur, ferrous sulphate sequstrine, elemental sulphate with ferrous sulphate, at the rate of 200, 1500, 4, and 750+100 gm^{-2} respectively, These were added to soil and compared with control (without fertilizer) on quantity and quality of Gladiolus in completely-randomized block design with four replications.

Absolutely, quality and quantity of the flowers in soils being treated with ferrous sulphate were higher than the others. This treatment increased stem lenght of flowers,spike, stem diameter, vase life, weight of corm and cormlet 8,5,17,20,71 percent, and decreased period from planting to flowering 10 percent in comparison with control plot.