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Phone: (02692) 235500 Telefax: (02692) 234111

email: sdic2011@gmail.com website: nvpas.org.in



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EFFECTS OF FOLIAR APPLIED SILIXOL ON THE ENHANCEMENT OF INDUCED RESISTANCE TO QUALITY AND YIELD OF TOMATO (SOLANUM LYCOPERSICUM)

J. J. DHRUVE, SARANG SAPRE, JAYDEEP P BHATT, AND K. B. KATHIRIA

Main Vegetable Research Station, Anand Agricultural University, Anand

A field experiment on tomato (*Solanum lycopersicum*) comprising eight treatment of silixol (stabilized silicic acid) was conducted at the Main Vegetable Research Station, Anand Agricultural University, Anand, during rabi 2009-10. The silixol was sprayed at different time of interval in tomato variety AT-3. The treatment T₂ and T₇ gave best response to increase the plant height. While, fruits per plant, fruits length, fruits weight and fruit yield were increased by treatment T₂. The silixol also gave beneficial effect to reduce the fruit borer and leaf curl damage in treatment T₂ in tomato plant at 60 DAS. The moisture content had no any adverse effect of silixol. The lycopene and ascorbic acid contents were increased in treatment T₅. Thus, overall it can be concluded that the fruit yield and its quality of tomato gave better response with foliar application of silixol with treatment T₂.