

Performance of kinds guava (*Psidium guajava* L) grafted on *Psidium friedrichsthalianum* Berg-Niederzue

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Abstract

The performance of three guava (*Psidium guajava*) types (Criolla roja, Cubana and Montalban) grafted onto *Psidium friedrichsthalianum* was evaluated in a soil infected with *Meloidogyne incognita*. The experiment was carried out at the experiment station "Centro Fruticola del Estado Zulia-CORPOZULIA" located in dry tropical forest (10° 49' 15" LN, 71° 46' 20"). Thirty two trees of 1-1.5 years old were studied. A complete randomized design with 3x4x7 factorial design and five replications. The canopy was divided in four quarters, from each quarter 5 branches of 25 cm long were tagged to record the phenological changes every 15 days during 105 days. All the guava types showed vegetative flushes with 65-100% masivity, and 0-35% masivity for reproductive .branches on all the types except Moltaban. The timing from flower bud to fruit was 15 days for the three guava types. Flower buds were observed for 15-45 days, flowers during 15-30 days and fruit during whole evaluation period. Fifteen to thirty days after pruning, the flushing began to develop into branches stage, which occurred 30-60 days later. Increase of main stem ranged 17.8-25.2 cm diam. The phenological performance of the three guava types was different, which was determined by scio/rootstock interaction, age, genetic potential, and environmet.

Key words: *Psidium guajava*, *P. friedrichsthalianum*, phenology, *Meloidogyne incognita*

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