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EFFICACY OF CERTAIN NON-FUMIGANT NEMATICIDES FOR THE CONTROL OF *MELOIDOGYNE JAVANICA* ON TOMATO

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Abstract

Two field and glasshouse experiments were conducted to evaluate the impact of non-fumigant nematicides (NFNs) Furadan 10%G, Mocap 20%L and Vydate 24%L, compared with Methyl bromide (MeBr) against *Meloidogyne javanica* on tomato. In the field experiment MeBr was most effective where it reduced the average overall nematode parameters by 70.5% and increased the average foliage weight by 86% followed respectively by Furadan (36.9, 31.9%), Mocap (27.1, 25.98%), while Vydate was least effective (15.5, 16.5%). In the glasshouse experiment, pre-transplant incorporation of Vydate at the medium or high doses in addition to a single foliar spray was most effective followed by Furadan, Mocap and Vydate used at medium rates. High doses of the NFNs were generally phytotoxic.