

MANEJO FITOSANITARIO DE SUELOS INFESTADOS CON *Rotylenchulus reniformis* EN MARACUYÁ

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PHYTOSANITARY MANAGEMENT OF SOILS INFESTED WITH ROTYLENCHULUS RENIFORMIS IN PASSION FRUIT.

Abstract

During the dry season of 2014, several products against the nematode *Rotylenchulus reniformis* were tested in passion fruit variety INIAP 2009. The treatments in study were azadirachtin 4% CE (10 mL L⁻¹), marigold extract 80% SC (5 mL L⁻¹) and benfuracarb 20% EC (5 mL L⁻¹), which were applied alone and in mixture with the fungicide iprodione 50% PM (2 g L⁻¹), with water as an experimental control. The products were applied in a monthly basis (five applications). A completely randomized block design with three replicates was used, Friedman's test was used at 5%. The experimental unit has 15 passion fruit plants. In each experimental plot the following variables were taken: Number of *R. reniformis* in soil and roots, number of dead plants and microorganisms associated with these plants were isolated from the samples. The best treatment for the control of *R. reniformis* was benfuracarb in combination with the fungicide iprodione. The botanic products reduced the nematode population but in less proportion than the chemical nematicides. The treatments did not have influence upon the number of dead plants. *Fusarium* spp., *Macrophomina* spp. and *Colletotrichum* spp., were isolated from these plants.

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