

Soil Technologies Corp.
Research and Development Department



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Research Report

Title: Effect of Robust on Root Knot Nematodes

Location: Egypt

Principal Investigator: Agrolink, Ltd, Cairo, Egypt

Crop: Tomato

Date: June 2010

Abstract:

The purpose of this trial was to evaluate the efficacy of Robust¹, for the control of root-knot nematodes (*Meloidogyne spp.*) in tomato plants. One plot of tomato plants was treated with 500g/feddan (1ha=2.4 feddan) of Robust while a second plot was left untreated as the control. The treatment was administered through the drip irrigation system at the time of transplanting and both plots were evaluated two months later. At the time of observation, the control plants showed symptoms indicative of a severe invasion of *Meloidogyne spp.* Observation of the treated plants demonstrated a healthy condition. The percentage of nematode population reduction, compared to the control, was estimated to be 90%.

Methods:

Two plots, a treated and untreated plot, were established adjacent to each other for this trial. The treated plot received one application of Robust at 500g/feddan, injected through the drip irrigation system at the time of transplanting and the control plot was left untreated. This trial was an open field environment with sandy loam soil. Two months later both plots were observed.

Results:

At the time of observation, the control plants showed symptoms indicative of a severe infestation of *Meloidogyne spp.* In contrast, observation of the treated plants demonstrated a healthy condition. The percentage of nematode population reduction, compared to the control, was estimated in general to be 90%.

¹Robust is a biological nematicide manufactured by Soil Technologies Corporation in Fairfield, IA, USA

Conclusions:

Results from this trial demonstrate a capability for Robust in controlling *Meloidogyne spp.* in tomato plants. The percentage of nematode population reduction, compared to the control, was estimated to be 90%. As a result of this trial, Robust has been successfully implemented in different locations in Egypt for a variety of crops at a rate of 500g/feddan.