

**Soil Technologies Corp.
Research and Development Department**



Research Report

Title: Nematode Control on Chrysanthemum

Location: Alajuela, Costa Rica

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Crop: Chrysanthemum

Date: 1997

Abstract:

The purpose of this study was to compare the reduction in nematode populations in soils with chrysanthemum flowers. Soils received applications of Intercept¹, Basamid² and soil steaming³. The soils of the plants were evaluated for their variation of the nematode population of *Pratylenchus*, *Meloidogyne*, and *Saprophytic* nematodes. Soil treated with Intercept had the greatest reduction in *Meloidogyne* and *Saprophytic* nematodes. Soil treated with Basamid had the greatest reduction in *Pratylenchus* nematodes.

Methods:

Soil with Chrysanthemum plants were treated with Intercept, Basamid and soil steaming. The soils of the plants were evaluated for their variation of the nematode population of *Pratylenchus*, *Meloidogyne*, and *Saprophytic* nematodes.

Results:

Soil treated with Intercept showed the greatest reduction of *Meloidogyne spp.* nematodes. Soil treated with Basamid showed the greatest reduction in *Pratylenchus spp.* nematodes. Soil steaming produced the second highest reduction percentage in the control of *Meloidogyne spp.* nematodes followed closely by Basamid. Basamid had the greater control of *Pratylenchus spp.* nematodes and provided the lowest percent of reduction in *Saprophytic* nematodes across all treatments. The figure below demonstrates all results across all treatments.

¹Intercept is a soil inoculant developed and manufactured by Soil Technologies in Fairfield, IA, USA

²Basamid is a chemical fungicide CAS # 533-74-4

³Soil steaming is an agricultural method to partially sterilize soil

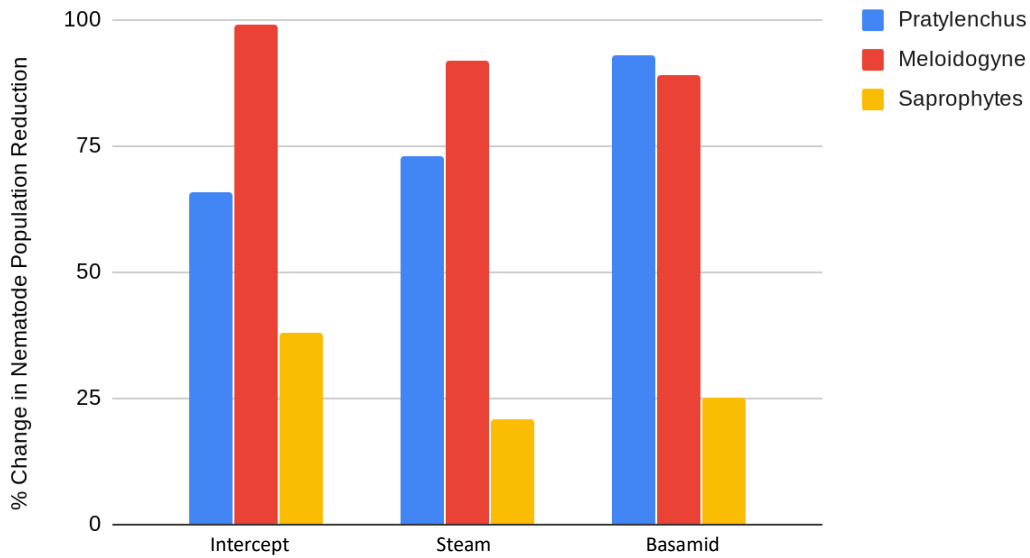


Chart 1: Nematode reduction in soil after treatment

Conclusions:

Soil treated with Intercept showed the greatest reduction in *Meloidogyne spp.*, and the lowest control of *Pratylenchus spp.* nematodes. Basamid treated soil showed the greatest reduction in *Pratylenchus ssp.* nematodes. These findings demonstrate that Intercept can effectively reduce populations of *Meloidogyne spp.* nematodes while providing around 65% of population reduction of *Pratylenchus spp.*