

Nature Safe[®] Research

University Research Data

TITLE: Suppression of Parasitic Nematodes By Nature Safe as Compared to Synthetic Nematacides in Bermudagrass Turf

TEST CONDUCTED BY: Auburn University, Coleman Y. Ward, Ph.D and Palma Ceia Golf and Country Club, Norman E. "Buddy" Carmouche CGCS.

I. Introduction and Procedures

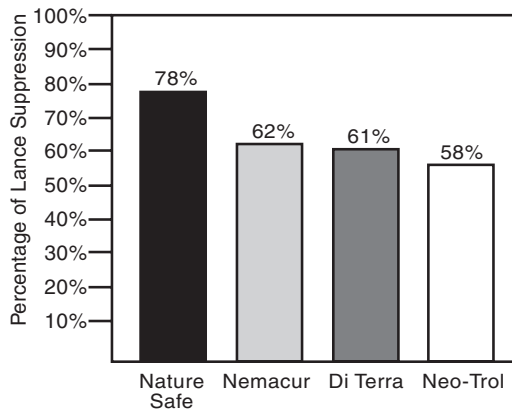
The purpose of this study was to compare the capability of Nature Safe Organic fertilizer with three synthetic nematacides, Neo-Trol[®], Di Terra[®], and NemaCur[®] to suppress the population of parasitic nematodes.

Plots measuring 6 ft. x 40 ft. were replicated four times. Initial treatments were applied in April. Base nematode populations of each plot were determined prior to application. Subsequent samples were collected 30, 60, and 90 days from initial treatment. Ten random cores were collected 1 in. x 4 in. from each plot. Cores were collected and placed in a styrofoam cooler for transportation directly to Auburn University Plant Diagnostic Laboratory. The centrifugal procedure was used for all assays. To ensure equal nitrogen fertility levels the synthetic treated plots received mini-prilled coated urea at a rate to match the N applied by Nature Safe

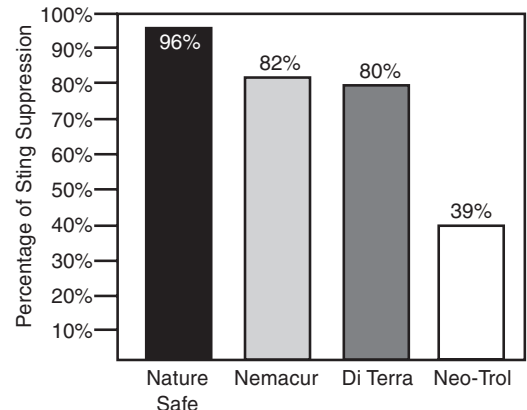
II. Test Results

Results were expressed in percent decline. There were initially two to twelve times more lance than sting nematodes. There was a 70% to 77% decline in total population of nematodes from May to late August. Nature Safe ranked highest in control of both lance and sting nematode. NemaCur ranked second in overall decline.

INFLUENCE OF NATURE SAFE ON PARASITIC NEMATODES IN BERMUDAGRASS



The influence of Nature Safe, NemaCur, DiTerra, and Neo-Trol on suppression of parasitic Nematodes in Bermudagrass Turf.



III. Conclusion

Nature Safe may be an effective management tool for Sting and Lance nematodes. This research will be repeated to verify the results.