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CONTROL OF *MELOIDOGYNE INCOGNITA* ROOT-KNOT NEMATODE ON EGG-PLANT WITH ORGANIC AMENDMENTS AND NEMATICIDES

F. AHMAD*, M.A. RATHER AND M.A. SIDDIQUI

Section of Plant Pathology and Plant Nematology,
Department of Botany, Aligarh Muslim University,
Aligarh-202002, U.P., India

*Corresponding author's E-mail: alig.faheem@gmail.com

Abstract

The effects of organic amendments and nematicides in the control of *Meloidogyne incognita* root-knot nematode on eggplant (*Solanum melongena*) cv. 'Navkiran' were examined in a greenhouse experiment. Organic amendments included chopped leaves of neem (*Azadirachta indica* A. Juss.), NPK and compost while carbofuran (Furadan 3G) and phorate (Thimet 10G) were used as nematicides. Population density of the nematodes and root-galling decreased in soil amended with organic additives and nematicides compared to unamended control. The growth of eggplant increased in amended soil. Maximum improvement in plant growth parameters was observed in plants treated with T_6 (T_1 + NPK + Compost + Carbofuran + Phorate) followed by T_3 (T_1 + Compost), T_5 (T_1 + Carbofuran), T_4 (T_1 + Phorate), T_2 (T_1 + NPK) and T_1 (chopped neem leaves) respectively. In comparison to untreated inoculated plants, the highest reduction in root-knot index was noted in plants treated with T6 whereas the lowest reduction was observed in plants treated with T_1