Pak. J. Nematol., 23 (2): 305-309, 2005

INTEGRATED MANAGEMENT OF RENIFORM NEMATODE, *ROTYLENCHULUS RENIFORMIS*INFECTING OKRA BY OIL CAKES AND BIOCONTROL AGENT *PAECILOMYCES LILACINUS*

M.S. ASHRAF, T.A. KHAN AND S. NISAR

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

Abstract

Investigations were carried out on the management of reniform nematode, *Rotylenchulus reniformis*infecting okra (*Abelmoschus esculentus*) by integrating ecofriendly components such as oil cakes viz., neem*(Azadirachta indica),* castor *(Ricinus communis),* black mustard *(Brassica nigra),* sunflower *(Helianthus annus)* and linseed *(Linum usitatissimum)* @ 15 g/kg soil and a biocontrol agent *Paecilomyces lilacinus* @ 1g mycelium + spores/kg soil. The treatments were evaluated individually and in integration against *R. reniformis* under glasshouse conditions. It was noted that all the treatments quite effectively suppressed the nematode population and kept the infection at significantly low level. Application of *P. lilacinus* showed better results in improving plant growth and reducing the nematode population build up as compared to oil cake treated plants whereas neem cake gave better results than other oil cakes. However, integration of neem cake with *P. lilacinus* gave best result causing increased plant growth and reduced population build up of reniform nematode.