



KALRO/NAVCDP Factsheet No. 024 /2024

Integrated management of Lesion nematode (*Pratylenchus spp.*) in Pyrethrum

Introduction

Nematodes can lead to yield loss of 10-50% due to pest damage on the pyrethrum crop roots

Symptoms:

- Lack of root branching
- Stunted roots
- Reddish brown/black lesions along the roots



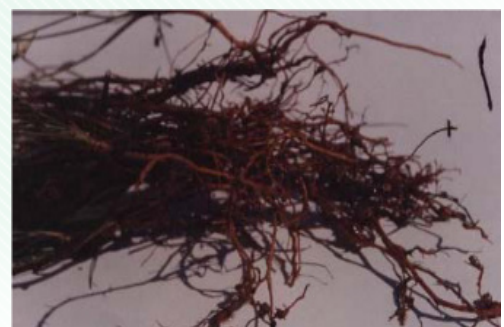
Field with patches showing nematode infestation

Management

Integrated management of the lesion nematode includes a combination of cultural methods, biological control and synthetic nematicides to control pest.

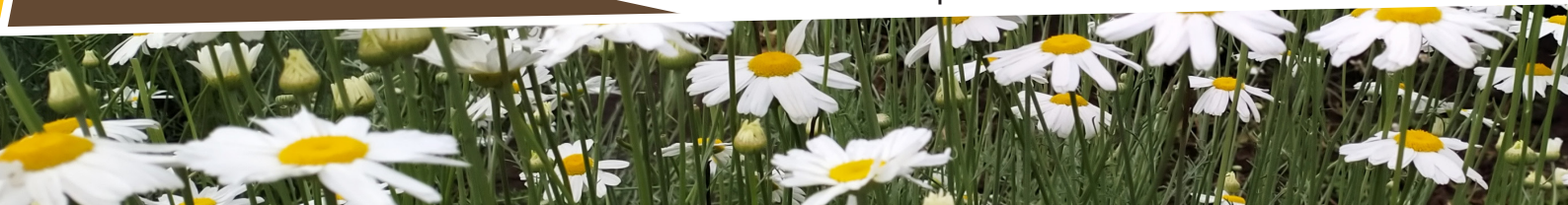
Cultural practices


- Plant clean/certified planting material
- Remove and destroy infected crops
- Practise crop rotation with crops such as cabbages, canola and forage grasses for a period of at least 6-8 seasons



Lesion nematode infestation on pyrethrum root

- Remove weeds that serve as alternative hosts and harbour the pest season after season
- Intercrop with garlic/spider plant or with brassica crops (eg. kales and canola) then incorporate into the soil (at flowering) to kill the pest



- 
- Plough fields deeply to expose soil to drying for a month before planting
 - Disinfect splits/seedlings before planting using hot water treatment (soak for 10 minutes in water at 50°C)
 - Wash off soil on all farm tools and disinfect using approved chlorine-based products.

Biological control

- Drench soil with Azadirachtin-based products (e.g. Neemark, Nemros, Achook or Nimbecidine).

Chemical control

- Use nematicides containing Abamectin (e.g. Adventure 5G Granular, Tervigo 20SC, Acoster 5 EC) or Abamectin + Fosthiazate (e.g. Foscap 105 GR) and Dazomet (e.g. Basamid Granular) around the root zone of plants. Be careful to follow manufacturers' instructions.



Compiled by: Janet Obanyi, Miriam Otipa, Violet Momanyi, Hannah Chore Oduor and Lusike Wasilwa

Edited by: Nyabundi, K.W., Mukundi, K.T., Maina, P., Wanyama, H.N., Mugata, R.K., Kibunyi, N. K. and Kinyua Z.M.

Design and Layout: Nogrecia Mnene

Disclaimer: The content of this publication is for general information to farmers and technical staff only and no person should act, or fail to act on the basis of the information herein without professional advice from crop health experts.

For more information Contacts: Director General
Kenya Agricultural & Livestock Research Organization, Kaptagat Road, Loresho Nairobi Kenya
P.O. Box 5781 I, City Square, Nairobi, 00200, Kenya

Email: info@kalro.org

Safaricom: +254 722206986/722206988; **Airtel:** +254 733-333-223/4/733333299/4