

AN OCCURRENCE OF HETERODERA TRIFOLII GOFFART, 1932
IN THE NIAGARA PENINSULA, ONTARIO¹J. I. Townshend and R.H. Mulvey²

Larvae of a species of Heterodera were noted among nematodes extracted by the Oostenbrink "cottonwool filter" method (3) from the soil of vegetable plots at the Ontario Horticultural Experiment Station, Vineland Station, in the Niagara Peninsula. Further samples were then collected from the same plots and from an adjacent vegetable area sown to a cover crop of Ladino clover. These samples were processed by the Fenwick method (1) and 35 and 40 cysts per 200 grams of soil from the two areas respectively were extracted. Most of the cysts from both areas were old and badly deteriorated. The nematode was identified as Heterodera trifolii Goffart, 1932. This report constitutes the first record of that nematode in the Niagara Peninsula.

Ladino clover, a host of H. trifolii (2), is used in a four-year rotation in the Ontario Horticultural Experiment Station vegetable plots in the Niagara Peninsula. When a portion of the vegetable growing area is in cover crop, Ladino clover is sown together with either oats or rye. The crop is mowed until the clover predominates during the first season and the clover is ploughed down at the end of the second season. Thus the cereal crop occurs one year in four and clover two years in four, Heterodera trifolii apparently is able to survive in this rotation. However, the nematode does not appear to have a detrimental effect on the clover.

Literature Cited

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