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OCCURRENCE OF ROOT-KNOT AND CYST NEMATODES IN PAKISTAN

by
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Little is known about the occurrence of root-knot and cyst nematodes in Pakistan. Brown (1962) reported *Meloidogyne incognita* on banana and *M. javanica* on eggplant and sugarcane and Riaz and Khan (1973) found *M. hapla* on potato. The only records for cyst nematode species are those of Akhtar (1961) for *Heterodera schachtii* in association with sugarcane and of Brown (1962) for *Globodera tabacum* (syn. *Heterodera tabacum*) in tobacco fields.

A general survey of crops was therefore carried out in 1978-79 and the following nematodes were identified: *Globodera rostochiensis* (Woll.) Mulvey *et* Stone on potato; *Heterodera avenae* Woll. on maize and wheat; *H. mani* Mathewes on wheat; *H. mothi* Khan *et* Husain and *H. sacchari* Luc *et* Merny on sugarcane; *H. schachtii* Schmidt on cauliflower and sugarcane; *H. vigni* Edward *et* Misra on cowpea; *H. zae* Koshy, Swarup *et* Sethi on maize and wheat and on citrus and pear; *Meloidogyne arenaria* (Neal) Chitw. on maize, sugarcane and tomato; *M. hapla* on soybean, chilli, pyrethrum, ginger, okra, potato, tomato and tobacco; *M. incognita* (Kofoid *et* White) Chitw. on banana, hyacinth-bean, eggplant, chilli, cotton, pyrethrum, ginger, maize, okra, papaw, sugarbeet, tomato, tobacco and luffa; *M. javanica* (Treub) Chitw. on banana, hyacinth-bean, eggplant, okra, papaw, sugarbeet, and luffa.

To the best of my knowledge, this is the first report from Pakistan for *Globodera rostochiensis*, *Heterodera avenae*, *H. mani*, *H. mothi*, *H. sacchari*, *H. vigni*, *H. zae* and *Meloidogyne arenaria*.

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