

EFFECT OF SINGLE AND REPEATED TREATMENTS OF ORGANIC AMENDMENTS ON NEMATODES ASSOCIATED WITH DATE-PALM

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Abstract

The effect of single and repeated applications of organic amendments, including castor, mustard and neem oil-cakes and poultry manure, on the stylet bearing nematode populations associated with the rhizosphere of date-palm were examined. Carbofuran was used for comparison. *Meloidogyne incognita* population was more effectively controlled by the multiple doses of the organic amendments but the populations of *Helicotylenchus multincinctus* and *Pratylenchus thornei* did not respond to this mode of application. In general, *M. javanica* and *H. multincinctus* populations were best controlled by poultry manure when given as a single or repeated dose. On the other hand, *P. thornei* population was most effectively managed by neem cake. Single dose of organic amendments did not alter the yield of date-palm but repeated doses of poultry manure gave increased plant yield over the control.