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SURVEY OF NEMATODES ASSOCIATED WITH PEPPER IN KERALA

It is recognised that diseases and pests contribute substantially in limiting production of pepper in Kerala. Among pests, nematodes have recently been observed to constitute a major threat to the pepper production in the State (D'Souza et al 1970; Venkitesan, 1972). Survey of nematodes associated with pepper was not done in this state. So this work was carried out. About 500 g. of the soil and 25 g. of the roots, each were collected at depths of 10 to 15 cms, from the base of pepper plants. A total of 93 samples from different places spread out in five districts were collected; 44 samples from Panniyur pepper tract, 16 samples from Neriamangalam tract, 9 samples from Kozha tract, 8 samples from Mavelikkara tract and 16 samples from Peringamala tract. Soil samples were processed by Cobb's sieving and sifting technique (Cobb, 1918) followed by modified Baermann funnel technique (Staniland, 1954). Nematodes from each root sample were also extracted. All the areas and varieties covered, recorded Meloidogyne incognita, Radopholus similis and Helicotylenchus sp, the root knot nematodes being more predominant than the other two nematodes. The "Peringamala" local variety is found less susceptible than all the other varieties. In this variety, eventhough R. similis and Helicotylenchus are present in the soil they are absent in roots. It may also be seen that Helicotylenchus sp. occur in the roots of Panniyur I and Kalluvally. Cheriakaniakadan is found to be highly susceptible than Panniyur I Karimunda, Balancotta, Kalluvally, Kottanadan and Peringamala local.

സംഗ്രഹം

കേരളത്തിൽ കരുമുളകിനെ ആക്രമിക്കുന്ന roila വിരകളെപ്പറ്റി flrttj സർവ്വേ നടത്തുകയുണ്ടായി. കേരളത്തിലെ rainsiaj ജില്ലകളിൽ നിന്നും, 93 സാമ്പിളുകൾ ശേഖരിച്ച് നടത്തിയ പഠനത്തിൽ നിന്നും "മിലോയിഡോഗൈൻ ഇൻകോഗ് നിറം", "റഡോഫോളസ് സിമിലിസ്", "ഹെലികോട്ടൈലക്സ്" എന്നീ തിര വിരകൾ, കരുമുളകിനെ ആക്രമിക്കുന്നതായി കാണുകയുണ്ടായി. ഇതിൽ "മിലോയിഡോഗൈൻ" മക്സ് രണ്ട് തിര വിരകളെ അപേക്ഷിച്ച് കൂടുതലായിരുന്നു. 'പെരിങ്ങമ്മല' എന്ന ഇനം കരുമുളകിൽ ഇവയുടെ ആക്രമണം താരതമ്യേന കുറവു, 'ചെറിയ കാണികാടൻ' എന്ന ഇനത്തിൽ കൂടുതലും ആയിരുന്നു.

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