SOME SPECIES OF Helicotylenchus (NEMATODA: HOPLOLAIMIDAE) FROM IRAN*

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Abstract
The genus Helicotylenchus with about 250 described species is one the largest genera in order Tylenchida or infraorder Tylenchomorpha. In order to identify the species of Helicotylenchus, over 500 soil and root samples collected from rhizosphere of different plants and localities of Iran, during 2009-2010. Soil samples were collected and its nematodes extracted, killed and processed to glycerin. Then the nematodes examined by light microscope, equipped with drawing tube and digital camera. In this study, in addition to 15 species of 26 previously reported species of the genus Helicotylenchus, a number of other known species were isolated and identified. Among the identified species, due to morphological and morphometric similarities, H. indicus, H. insignis, H. falcatus and H. egyptiensis are discussed in two groups. The ventral tail projection in the first three species usually is shorter than two body annuls width, and in H. egyptiensis is as long as two body annuls width or longer. The morphometric characters of the first three species are very similar and for this reason H. insignis and some other species were synonymized with H. indicus by several authors. However the shape of stylet knobs is different among these species. Stylet knobs are sloping backward in H. indicus, but indented forward in H. insignis. H. egyptiensis has a usually pointed tail tip. H. insignis and H. falcatus, as new records for Iranian nematode fauna are described. Also the descriptions of H. indicus and H. egyptiensis which has already been reported form Iran, presented in more details.

Keywords: Fauna, Identification, Morphology, Tylenchida, Tylenchoidea Tylenchomorpha.

See Persian text for figures and tables (Pages ۵۱۳-۷۹۲).

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References


