

Abstract

Plant parasitic nematodes are described in all agricultural soils. In the other to control or study on biology and other related aspects of plant parasitic nematodes as other plant pathogen, it is important to identify species of nematodes, exactly. During 2013 and 2014, in order to identify the plant parasitic nematodes fauna in rhizosphere soil of vineyards in five city of south of West Azarbaijan province including Mahabad, Boukan, Sardasht, Piranshahr and Miyandoab, 50 soil samples were collected from different localities of the region. After to transfer the samples to laboratory, the nematodes extracted by combined sieving and centrifugal-floatation technique. the nematodes fixed and transferred to anhydrous glycerin. The permanent slides were prepared from the extracted nematodes and supply the measurements by light microscopy and drawing tube. The species were identified based on morphological and morphometrical characters and by using the refferernses and valid keys. In the present study two species were identified, including:

Amplimerlinius globigerus Siddiqi, 1979
Geocenamus brevidens (Allen, 1955) Brzeski, 1991
Geocenamus rugosus (Siddiqi, 1963) Brzeski, 1991
Scutylenchus paniculoides (Vovlas & Esser, 1990) Siddiqi, 2000
Ditylenchus myceliophagus Goodey, 1958
Ditylenchus acutus (Khan, 1965) Fortuner & Maggenti, 1987
Pratylenchus coffeae (Zimmermann, 1898) Filipjev & Schuurmans Stekhoven, 1941
Pratylenchus neglectus (Rensch, 1924) Filipjev & Schuurmans Stekhoven, 1941
Pratylenchus scribneri Steiner in Sherbankoff & Stanley, 1943
Pratylenchus penetrans (Cobb, 1917) Filipjev & Schuurmans Stekhoven, 1941
Pratylenchus sefaensis Fortuner, 1973
Pratylenchoides variabilis Sher, 1970
Zygotylenchus guevarai (Tobar Jimenez, 1963) Braun & Loof, 1966
Mesocriconema xenoplax (Raski, 1952) Loof, 1989
Mesocriconema antipolitanum (De Guiran, 1963) Loof & De Grisse, 1989
Helicotylenchus pseudorobustus (Steiner, 1914) Golden, 1956
Helicotylenchus vulgaris Yuen, 1964
Basiria tumida (Colbran, 1960) Geraert, 1968
Boleodorus thylactus Thorne, 1941
Discotylenchus discretus Siddiqi, 1980
Filenchus vulgaris (Brzeski, 1963) Lownsbery & Lownsbery, 1985
Xiphinema index Thorne and Allen, 1950
Xiphinema majus Bos & Loof, 1985

The *Xiphinema majus* were recorded for first time for iran nematdoes fauna.

Key words: Grapevine, Nematode, Fauna, Parasite, Western Azerbaijan



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**The Thesis Submitted for the Degree of M.Sc
In the Field of plant pathology**

**Identifacation of nematode fauna in vineyards of
south of Western Azerbaijan and determination of
dominant parasitic species**

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January 2015