



## Studies on Soil Nematodes in Al-Muthanna Province, Iraq

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**Abstract:** Fifty soil samples were collected from different regions of Al-Muthanna province. The examination carried out by sedimentation using of ethyl acetate. The rate of total positive samples with nematodes was 25.3 per cent. Four genera were identified in this study are *Aphelenchoides*, *Pratylenchus*, *Longidorus* and *Paratrichodorus*. The rate of positive samples was 7.4, 5.9, 4.4 and 4.4 per cent, respectively. *Toxocara* eggs were also detected under the microscope with rate of 2.9 per cent. The rate of parasitic existence varied with the season as the highest rate of positive samples was in November (66.6%), while the lowest rate in March and April (8.3%). This can suggest the importance of the temperature and humidity in spreading of nematodes in the soil.

**Keywords:** Identification, Investigation, Soil nematodes

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