

Diversity of plant parasitic nematodes associated with ornamental plants in Jorhat subdivision, Assam

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ABSTRACT: Random survey was conducted in six administrative blocks of Jorhat sub-division of Jorhat district, Assam to determine the association of plant parasitic nematodes with ornamental plants. A total of 129 soil and root samples were collected from 31 ornamental plants from six blocks of Jorhat sub-division. Ten species of plant parasitic nematodes belonging to ten genera were found to be associated with ornamental plants of Jorhat sub-division. Species recorded were *Helicotylenchus dihystra*, *Tylenchorhynchus leviterminalis*, *Cephalenchus leptus*, *Rotylenchulus reniformis*, *Macroposthonia onoensis*, *Xiphinema radicicola*, *Hoplolaimus indicus*, *Meloidogyne incognita*, *Hemicriconemoides mangiferae* and *Hemicycliophora* sp. *H. dihystra* was frequently encountered plant parasitic nematode with the highest frequency. *R. reniformis* was first in absolute density and prominence value.

Key Words: Survey, plant parasitic nematodes, ornamental plants.