

SURVEY REPORT ON INCIDENCE AND INTENSITY OF ROOT KNOT NEMATODE (*MELOIDOGYNE INCOGNITA*) ON SPINACH (*SPINACEA OLERACEA*) IN U.P. AND BIHAR

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ABSTRACT : A survey conducted to assess the incidence and intensity of root-knot nematode disease in twenty seven district of Uttar Pradesh and Bihar showed that spinach (*Spinacea oleracea*) grown in all twenty seven districts were infected with root-knot nematode disease. A total 3375 spinach root samples were uprooted, 1891 samples were found to be root-knot nematode as visible galls. The frequency of root-knot nematode disease in spinach infested with varied a great deal and it was observed that *Meloidogyne incognita* was most widely distributed species as it was found in the entire twenty seven districts. The incidence ranged from 32.8 to 81.6% and the average intensity in terms of root-knot index was 3.2.

Key Words : Spinach (*Spinacea oleracea*), root-knot nematode, incidence and intensity.