

SURVEY AND DISTRIBUTION OF PLANT PARASITIC NEMATODES IN MAJOR EGGPLANT GROWING AREAS OF ALLAHABAD, UTTAR PRADESH

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ABSTRACT : An extensive survey was carried out during 2006 for the isolation of plant parasitic nematodes associated with eggplant (*Solanum melongena*) growing fields of Allahabad district. 229 eggplant soil samples were collected from 16 different locations (villages) for investigation of root-knot disease infestations. Basahi, Mahewa kalan, Shivgarh and Padila were found most infected areas (>50%) while Gulalpur and Almapur were found least (<25%) among all the growing area surveyed. Maximum relative abundance (RA) was recorded at Mahewa kalan (88.8%), while the minimum relative abundance was recorded at Almapur (25%). Relative density (RD) was recorded maximum (68%) at Sobari and minimum (11.5%) at Sahson. Maximum relative frequency (RF) was recorded (93.9%) at Mahewa kalan and minimum (14.2%) at Almapur. Dominance value index (DVI) was recorded maximum (79.8%) at Mahewa kalan and minimum (23.1%) at Gulalpur. Inoculum density (ID) was recorded maximum (.32) at Mahewa kalan and minimum (.04) at Sahson.

Key Words : Eggplant (*Solanum melongena*), plant parasitic nematodes, *Meloidogyne* spp.