

NEMATODES AND THEIR HOST ASSOCIATION IN NORTHERN AREAS OF PAKISTAN

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Abstract

A number of nematode surveys conducted by various researchers in the plains, valleys and mountainous areas of Northern Pakistan from time to time, have revealed collection of numerous plant parasitic nematode species associated with fruits, vegetables, cereals, ornamental plants, forest trees, herbaceous plants and grasses. So far from this area, 33 new nematode species and 85 known species (as first record in Pakistan) associated with various plantations have been reported and described by different authors (Maqbool, 1980, 1982 a,b & 1983; Maqbool *et al.*, 1983, 1984, 1985, 1986 & 1987; Maqbool & Shahina, 1985, 1987a, 1987b, 1988a, 1988b, 1989 & 1992; Maqbool & Ghazala, 1986 & 1988; Lamberti *et al.*, 1987; Qasim & Hashmi, 1987; Zarina & Maqbool, 1990; Firoza *et al.*, 1990; Firoza & Maqbool, 1992; Shahina & Maqbool 1990a, 1990b; Nasira *et al.*, 1991; Nasira *et al.*, 1992; Maqbool & Shahina, 1995; Shahina & Maqbool 1996). Besides, other earlier and current researchers have reported the occurrence of numerous phytonematodes associated with different plantations of NWFP (Siddiqi, 1962, 1962; Saeed *et al.*, 1986; Qasim & Ahmad, 1989; Khan *et al.*, 1990; Gul & Saifullah, 1990 & 1991; Ahmad & Qasim, 1990; Gul *et al.*, 1991; Munir *et al.*, 1995; Soomro *et al.*, 1995a, 1995b).