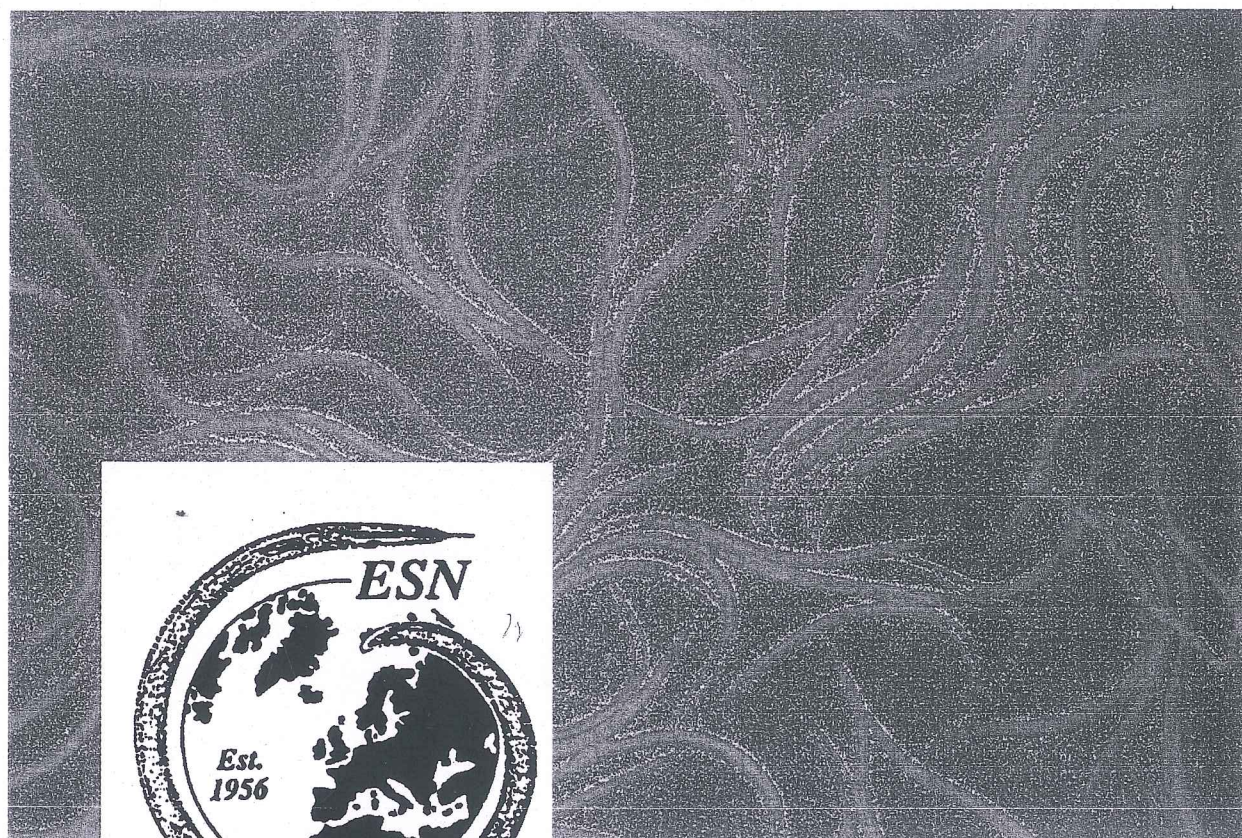


30th International Symposium of the European Society of Nematologists

Vienna, September 19 – 23, 2010

Proceedings



Including a post conference workshop on
cereal cyst nematode biology and
management

September 24, 2010

S16-P1

Preliminary survey study on *Heterodera* species in some provinces of Southeast Anatolia region of Turkey

Imren, M.¹, Özarslandan, A.¹, Toktay, H.¹, Öcal, A.², Elekçiođlu, H.³, Dababat, A.A.⁴, Nicol, J.M.⁴

¹Plant Protection Res. Ins. 01321, Adana, Turkey

²Plant Protection Res. Ins. P.O. 115, 21100, Diyarbakır, Turkey

³Cukurova University, Plant Protection Dept., Adana, Turkey

⁴CIMMYT International, Turkey Office, Ankara, Turkey

In a preliminary survey study, the identification, distribution and population densities of *Heterodera* species were investigated on cereal fields in four provinces (Gaziantep, Kilis, Şanlıurfa, Mardin) of Southeast Anatolia (SEA) region of Turkey. A total of 240 composite soil and root samples were taken during summer season in 2009. According to extraction, cyst nematodes were found in 128 soil samples (53%). Only from 17 locations DNA were extracted from cyst samples and identified 12 populations as *H. avenae* and 5 populations as *H. latipons* using PCR-RFLP. Population densities of cyst nematodes in infested cereal soil samples ranged at 58% localities 1-10 cysts, 26% localities 11-20 cysts and 16% localities 21-157 cysts per 250 g soil. Further comprehensive survey study should be done in the other provinces of SEA region of Turkey in order to find the importance of cyst nematodes.