Project Title : Investigation on The Effect on Knotting Caused by Root-Knot

Nematodes (Meloidogyne spp.) of Some Soil Types in Growing

Vegetables in The Aegean Region

Start / End Date : 1993-1997

Supporting Body : GDAR

Leader : İbrahim ÇINARLI

Co-researchers : N. Nurdan ERTEKİN, Bilge MISIRLIOĞLU, Enbiye ULUTAŞ

Summary : It was investigated the effect on knotting caused by root-knot

nematodes (*Meloidogyne* spp.) of some soil types in 1993-1997. The experiments were established at 7 seedling-beds in the Institute fields, according to randomized blocks with 7 characters (1 control) and 3 replications. In the experiments, tomato and potato crops were used. It was put the soil in which was different rates of sand, clay, and silt on the seedling-beds

then infected with M. javanica.

While silt ratio in the soil was increasing, the number of nematodes declined in tomatoes experiment, in 1993 and

1994.

In the same years, also it was determined that although potatoes tubers planted on the fields infested with the root knot nematodes seem as if no symptom, they include many eggs and females of the nematode.

The studies carried out in 1995, 1996, and 1997 show that the eggs opened by stimulating of the roots in vegetable fields in winter were died because of cool weather conditions. According to these results, it was determined that in the fields infested with root-knot nematodes, especially cool weather conditions, growing vegetables instead of fallow causes the reduction in the nematode population.