

PROJECT: Nematode Investigations

Duration: 4 years (1955-1958)

Station: Florida Agricultural Experiment Station

Total of USGA Support: \$5,000

Specific Accomplishments: The following findings have been reported.

1. Experiments in which vats were inoculated with one species of nematode (Trichodorus sp.) were observed for population trends. A cold winter in 1957 reduced the population greatly. Higher populations were found in the 6-12 inch zone than in the 0-6 inch zone. This is the nematode which causes stubby roots.
2. Investigations on putting green turf during 1957 and 1958 provided the following information:
  - a. Populations of nematodes representing the genera Criconeimoides (ring), Hoplolaimus (lance) Balcolaimus (sting), and Dolicodorus (awl) increased an average of 200% in the period from August 1957 to August 1958, despite a nematocide treatment in late August of 1957 and a prolonged cold winter.
  - b. Treatments with Nemagon showed a marked decrease in populations of the nematodes listed in (a) eight weeks after treatment, but this decrease was accompanied by a very rapid increase (1860%) in the population of the stubby root nematode (Trichodorus.)