

NEM 204
PREVENTION OF NEMATODE PROBLEMS

MANAGEMENT CATEGORIES:

PREVENTION
BIOLOGICAL CONTROL
CULTURAL PRACTICES
PHYSICAL METHODS
CHEMICAL METHODS

PREVENTION:

QUARANTINE
USE CERTIFIED PLANTING MATERIALS
CHECK SUSPECT MATERIALS BEFORE
PLANTING
NEMATODES MAY BE PRESENT IN MANURE
CLEAN EQUIPMENT BEFORE MOVING
NEMATODES MAY BE PRESENT IN IRRIGATION
WATER



CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE
PLANT QUARANTINE MANUAL

3271. BURROWING AND RENIFORM NEMATODE

State Exterior Quarantine

A quarantine is established against the following pests, their hosts and possible carriers:

- A. Pests.** Burrowing nematode (*Radopholus similis*) and reniform nematode (*Rotylenchulus reniformis*), parasites of the roots of citrus and many other plants.
- B. Area Under Quarantine.** The States of Alabama, Arkansas, Florida, Georgia, Hawaii, Louisiana, Mississippi, North Carolina, South Carolina, Texas, and the Commonwealth of Puerto Rico. See Appendix A below for supplementary information.

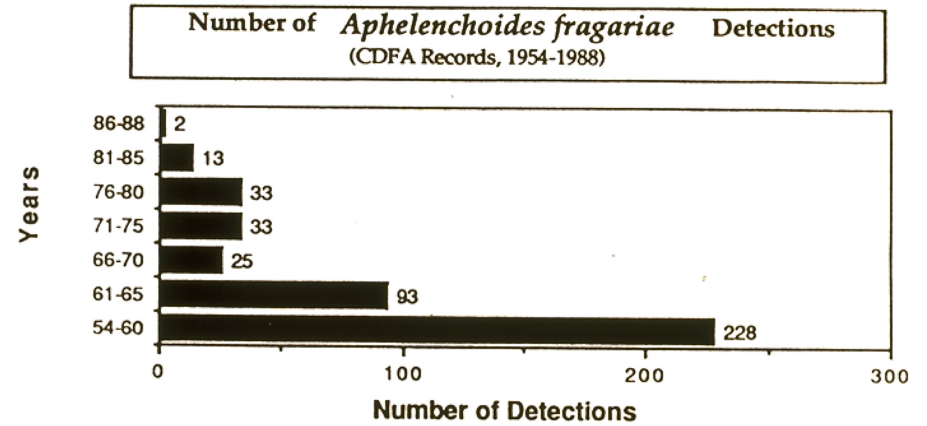
QUARANTINE/SANITATION :

EXTERNAL - QUARANTINES
BURROWING NEMATODE (RADOPHOLUS SIMILIS)
56 INTERCEPTIONS 1988-1994
RENIFORM NEMATODE (ROTYLENCHULUS
RENIFORMIS) 40 INTERCEPTIONS 1988-1994
STING NEMATODE (BELONOLAIMUS
LONGICAUDATUS) (COACHELLA VALLEY)

INTERNAL - NURSERY NEMATODE CONTROL
PROGRAM FOR FRUIT AND NUT TREES,
GRAPEVINE, BERRY AND VEGETABLE
PLANT NURSERY STOCK
CERTIFICATION PROGRAMS FOR GARLIC AND
STRAWBERRY

**COST OF PRODUCING FRUIT AND NUT TREE
ROOTSTOCKS:**

FUMIGATION \$1,500/ACRE
SITE INSPECTION \$500
TOTAL \$2,000/ACRE
**36 INCH ROW SPACING, 6 INCH PLANT SPACING =
29,040 TREES/ACRE**
**ASSUME HALF (14,520) REACH HARVESTABLE SIZE
WITH A MARKET PRICE OF \$4.50/TREE**
THE ADDITIONAL COST = 0.14/TREE
**COMMERCIAL ORCHARD PLANTS 100-150
TREES/ACRE**
THE ADDITIONAL COST = \$14 TO \$20/ACRE

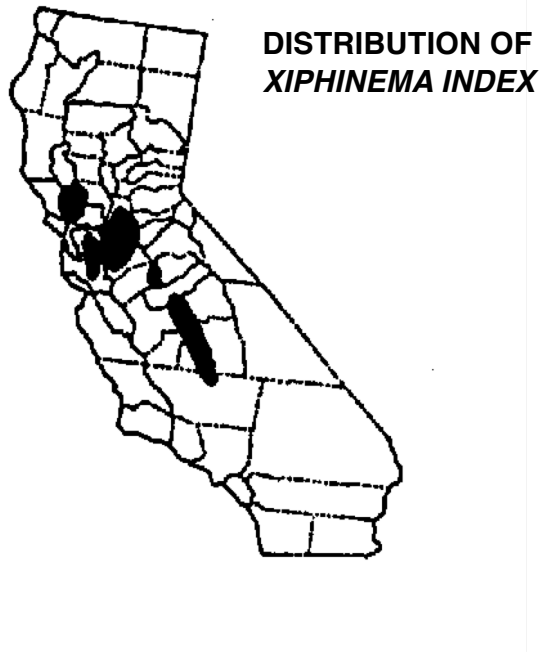


STRAWBERRY FRUIT PRODUCTION FIELD



STRAWBERRY NURSERY FIELD





DISTRIBUTION OF SUGAR BEET CYST NEMATODE:

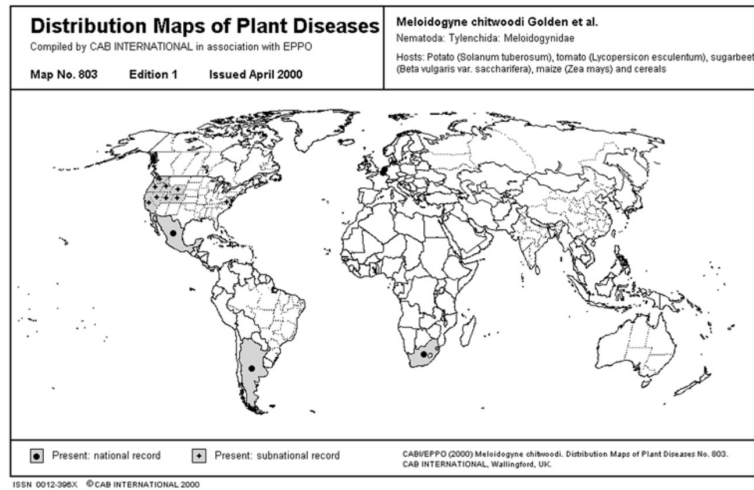


Fig. 22.7. Worldwide distribution of *Meloidogyne chitwoodi*.

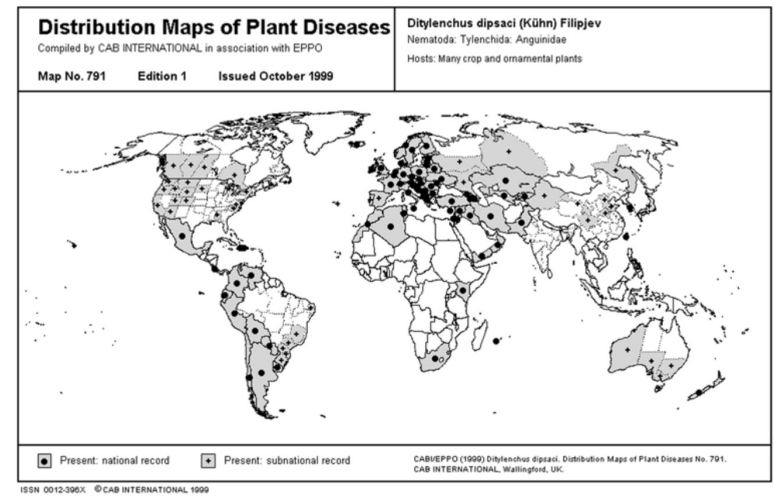


Fig. 22.3. Worldwide distribution of *Ditylenchus dipsaci*.

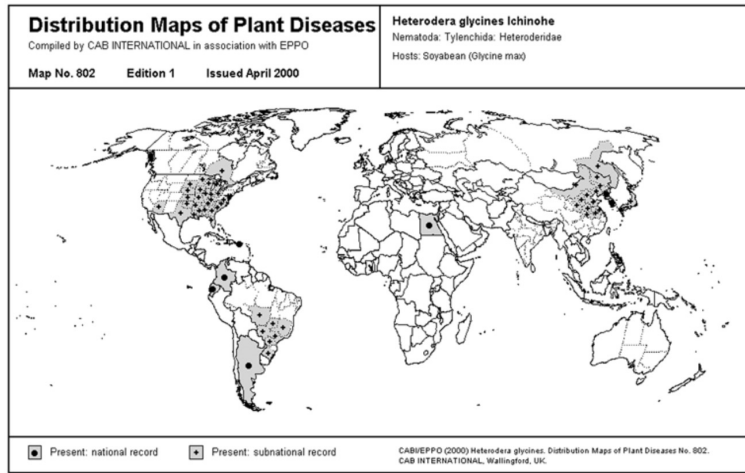


Fig. 22.4. Worldwide distribution of *Heterodera glycines*.

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Fla. Dept. Agric. & Consumer Serv.
Division of Plant Industry

HOW NEMATODES ENTER AND DISPERSE IN FLORIDA NURSERIES VIA VEHICLES

R. P. Esser¹

A study in Florida revealed 16 genera of plant-destructive nematodes in soil adhering to 63 bulldozers operating in 23 different groves in Lake, Orange and Polk counties. Twelve of the 63 vehicles had more than 151 nematodes per sample. None of the bulldozers were free of plant parasitic nematodes.



Fig. 1. A small tractor wheel caked with mud and mud that has been thrown on the tractor chassis.

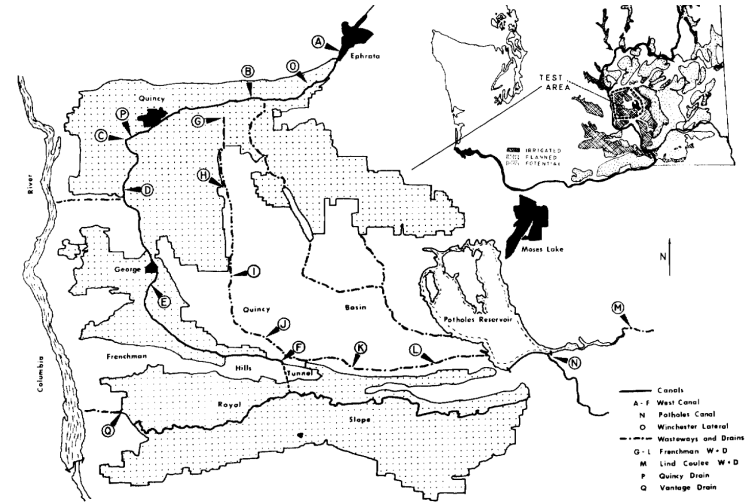


NEMATODES MAY BE PRESENT IN IRRIGATION WATER



Acquisition and Distribution of Nematodes in Irrigation Waterways of the Columbia Basin in Eastern Washington¹

L. R. FAULKNER AND W. J. BOLANDER²



OCCURRENCE OF LARGE NEMATODE POPULATIONS IN IRRIGATION CANALS OF SOUTH CENTRAL WASHINGTON

BY

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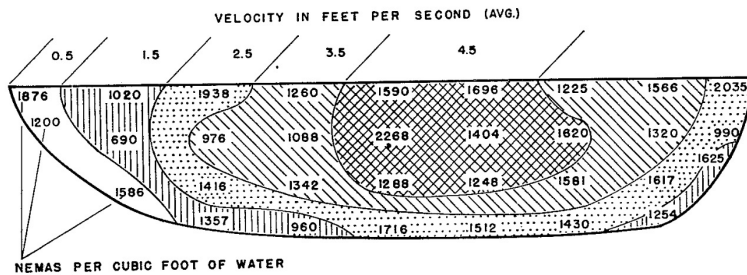


Fig. 3. Diagram of cross section of the Sunnyside Canal showing the number of nematodes collected per cubic foot (28.316 l) of water from each check point and the average velocity of water at these points.