

NEMATODES

Deep Placement and High Dosage Preplant Fumigation: B. F. Lownsbery

Deep placement (24 inches) and high dosage (250 gal Shell DD^R) of preplanting soil fumigant is being compared to conventional fumigation (50 gal Shell DD^R at 12 inches), and no fumigation at the Al Macedo property south of Manteca. This is a sandy soil infested with the ring nematode, Criconemoides xenoplax. There was little response to soil fumigation the first growing season. W. R. Schreader believes a factor other than nematodes (e.g. inadequate irrigation) may have limited growth.

Vydate^R Nematocide Trial: B. F. Lownsbery

A trial of du Pont Vydate^R (formerly DPX 1410) used with, and without, preplanting soil fumigation (Dow Telone^R 88 gal per acre) is being set up in an orchard at Winters (Wolfskill tract) infested with the root-lesion nematode Pratylenchus vulnus.

Reaction of Walnut Rootstocks to Root Lesion Nematode: B. F. Lownsbery

We have found that the reaction of walnut rootstocks to Pratylenchus vulnus in short-term greenhouse tests differs from the reaction in the orchard over a longer period. We find stunting, but no lesions, in the greenhouse; stunting and lesions in the orchard. We believe that this is because we are looking at primary root cortex in the greenhouse, and secondary phloem in the orchard.

Post Plant Nematode Control: G. S. Sibbett, D. E. Johnson

Walnut production and quality in 4 replications of DBCP, 3.5 gal per acre injected in soil at 4 inches, and DBCP 3 gal per acre flood in Kirby, were compared with no treatment in a Payne walnut orchard infested with lesion nematode. Treatments applied in fall of 1970 had no significant effect on production, nut size, kernel quality, total edible kernel, or networth per inshell pound in 1971.