

Omnivorous Leaf Roller Control on Greenhouse Roses

Rose growers in the San Francisco Bay Area have long been plagued by worm damage. Three types of pests are involved. These include the omnivorous leaf tier, orange tortrix (leaf roller) and the omnivorous leaf roller. Dr. William Allen, Department of Entomology, University of California, advises that because of the development of resistance the latter has become the toughest customer to handle. He has doggedly pursued chemical control techniques and is well aware of the problem that confronts the growers.

In his 1967 experiments Dursban, Azodrin, Zectran, and Sevin gave the best control of omnivorous leaf roller. Similar results were obtained in Richmond and San Bruno. Dursban was injurious to the varieties included in the test. Investigations conducted in early 1969 (see Table 1) showed that Lan-nate, Azodrin, Zectran, and Bayer 37344 were among the best performers. No plant damage was observed with any of the materials employed. Azodrin was used at a lower dosage than in 1967; however, the control was as good as Zectran. Rose growers will recall that Zectran was widely used for worm control with good results until it was withdrawn from the market a few years ago.

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Table 1. The effectiveness of various pesticides applied for control of the omnivorous leaf roller on greenhouse roses, San Leandro, California, 1969.

Material	Lbs. actual per 100 gallons	No. of larvae 7 days after treatment
Lannate S.P.	0.5	1.50
Azodrin E.C.	0.5	12.25
Zectran E.C.	0.5	13.25
Bayer 37344 W.P.	0.5	15.50
Baygon E.C.	0.5	28.75
Temik Granular	10.0 lb/acre	29.75
Check	--	28.50

At the present time growers are relying mainly on Sevin and Bacillus (bacterial disease) for worm control on greenhouse roses. Materials such as Lannate and Azodrin cannot be recommended and should not be used pending registration on greenhouse flower crops. More work will have to be done to determine whether these materials can be safely used in greenhouses and whether they cause injury to certain varieties of roses. --R. H. Sciaroni

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Your editor,

