

Section 4

Root-feeding Maggots, Soil Arthropods, and Other Problems

STRAWBERRY: Fragaria chiloensis

STRAWBERRY CROWN MOTH: Synanthedon bibionipennis (Bdvl.)

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Five registered insecticides were evaluated on Benton variety strawberries during the late spring and summer, 1983 on the Dwayne and David Heikes Ranch, Washington Co., OR., for control of the strawberry crown moth, Synanthedon bibionipennis (Bdvl.). A randomized complete block design with 4 replications was chosen. Individual plots were 4 rows (36') wide x 20 ft. Insecticides were applied with a handgun sprayer (Amerind McKissick) in 2 gallons water/plot (ca. 180 gallons/acre), pressurized to ca. 80 psi.

Application dates were 6/18/83 (ca. 12-14 days after the first consistent adult activity occurred), 7/4, and 7/21. Plants were topped on 7/4 in treatments 5, 6, and 7 and on 7/21 in treatments 1, 2, 3, and 4 prior to application. The untreated check was not topped.

RESULTS

Early topped plants receiving 2 Lorsban or Furadan applications post topping contained the fewest larvae. Of the plants topped at the later date, 2 applications of Guthion during harvest and one application of Lorsban produced a larval population of only 29% that of the untreated and untopped check.

Table 1. Strawberry Crown Moth Control with Registered Insecticides, Heikes, Washington Co., OR. 1983.

1. Thiodan 50W-2 lbs.	Guthion 2L-1qt.	TOP Furadan 4F-1qt.
2. Guthion 2L-1qt.	Guthion 2L-1qt.	TOP Lorsban 4E-1qt.
3. Guthion 2L-1qt.	Guthion 2L-1qt.	TOP -----
4. Diazinon Ag500-1qt.	Diazinon Ag500-1qt.	TOP Diazinon Ag500-1qt.
5. Thiodan 50W-2lbs.	TOP Lorsban 4E-1qt.	Lorsban 4E-1qt.
6. Guthion 2L-1qt.	TOP Lorsban 4E-1qt.	Lorsban 4E-1qt.
7. Guthion 2L-1qt.	TOP Furadan 4F-1qt.	Furadan 4F-1qt.
8. Untreated and untopped check		

Total # Larvae per 8 Plants (9/28)

	I	II	III	IV	T
1.	6	11	14	11	42 b
2.	6	3	6	8	23ab
3.	21	16	11	20	68 cd
4.	13	7	16	11	47 bc
5.	2	3	4	4	13a
6.	0	0	0	2	2a
7.	1	3	1	7	12a
8.	12	14	25	28	79 d