

Section VI.
Soil Arthropods

ROOT WEEVIL INSECTICIDE EFFICACY ON STRAWBERRY, 1997

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Treatments were replicated four times in a 2 year-old 'Rainier' strawberry field in La Center, WA. Plots measuring 3 rows wide and 25 ft long were arranged in a RCB design. Sprays were applied on 6 June with a tractor mounted 6 tank plot sprayer with a 3 row boom using 3 D4-45 TeeJet nozzles per row at 150 psi, delivering 100 gal/acre at 2 mph. Visual samplings for BVW were taken on 13, 16 and 24 June along the center 20 feet of the center row beginning at 10 PM with the aid of a flashlight.

Alert and Brigade provided good knockdown of preharvest BVW adults at 3, 6 and 14 DAT. Danitol gave good knockdown at 3 DAT but began to break down after 6 DAT and was not significantly better than the untreated check at 14 DAT (Table 1).

| Table 1. Treatment | Rate lb(AI)/ acre | Mean weevils/plot | | |
|-----------------------|-------------------------|-------------------|--------|--------|
| | | 3 DAT | 6 DAT | 14 DAT |
| Alert 2SC | 0.32 | 2.0a | 3.2a | 0.7a |
| Brigade 10WP | 0.10 | 0.7a | 1.0a | 0.2a |
| Danitol 2.4EC | 0.20 | 2.5a | 18.7b | 7.2ab |
| Danitol 2.4EC | 0.40 | 3.7a | 26.5bc | 12.0ab |
| Cryolite bait 20% | 30 | 22.5b | 27.2bc | 15.0ab |
| GWN 1885 20% | 30 | 24.0b | 23.5bc | 17.0ab |
| Untreated check | n/a | 28.7b | 36.0c | 22.0b |

Means within columns followed by the same letter are not significantly different (P < 0.05, LSD).