

Summary of carrot weevil bioassays, 2008, Ohio State Univ. by Celeste Welty

Table 1. Rating of damage caused by carrot weevil adults after 72 hours of exposure to foliar residues of insecticide on excised parsley leaves, and mortality of weevils, June 2008. Mean of 4 replicates, 5 weevils per replicate, using weevils field collected from Celeryville, Ohio.

<i>Treatment</i>	<i>Damage rating (scale 0 to 4)</i>	<i>% Mortality</i>
Baythroid XL 1EC, 3.2 fl oz/A	0.25 C	60 B
Avaunt 30WG, 6 oz/A	0.50 C	95 A
Malathion 57EC, 2 pt/A	0.50 C	100 A
Guthion 50WP, 1 lb/A	1.50 B	100 A
Radiant 1SC, 10 fl oz/A	1.75 B	80 AB
Water (control)	3.50 A	0 C
<i>ANOVA</i>	<i>P<0.0001</i>	<i>P<0.0001</i>

Table 2. Rating of damage caused by carrot weevil larvae on parsley seedlings after insecticide soil drench treatment, June-July 2008. Mean of 6 replicates, one plant per replicate, using weevils field collected from Celeryville, Ohio. Evaluated 3 weeks after soil drench treatment. Based on sidedress soil application at 100 gallons of water per acre.

<i>Treatment</i>	<i>Damage rating (scale 0 to 3)</i>
Admire Pro, 10.5 fl oz/A	0.2 B
Platinum 2SC, 11 fl oz/A	0.5 B
Vydate 2WSL, 4 pt/A	0.5 B
Water (control)	3.0 A
<i>ANOVA</i>	<i>P<0.0001</i>

Table 3. Rating of damage caused by carrot weevil adults after 96 hours of exposure to foliar residues of insecticide on excised parsley leaves, and mortality of weevils, October 2008. Mean of 4 replicates, 10 weevils per replicate, using weevils field collected from Hartville, Ohio.

<i>Treatment</i>	<i>Damage rating (scale 0 to 3)</i>	<i>% Mortality^a</i>
Baythroid XL 1EC, 3.2 fl oz/A	0.00 E	16 D
Malathion 57EC, 2 pt/A	0.75 DE	98 A
Actara 25WDG, 5.5 oz/A	1.25 CD	40 C
Guthion 50WP, 1 lb/A	1.50 BCD	98 A
Avaunt 30WG, 6 oz/A	1.50 BCD	95 A
Avaunt 30WG, 3.5 oz/A	1.75 BC	85 AB
Radiant 1SC, 10 fl oz/A	2.25 AB	72 B
Water (control)	3.00 A	0 D
<i>ANOVA</i>	<i>P<0.0001</i>	<i>P<0.0001</i>

^a Actual % mortality shown, but analysis based on transformed percentage values.