

Insect Management in Fall Spinach- 2004: ' Seven-R' spinach was planted on Aug 26 at the University of Delaware Research and Education Center located near Georgetown, DE. Two row plots twenty ft long on 30-inch centers were replicated 4 times and arranged in a RCB design. All treatments were broadcast applied on Sept 16, 23 and Oct 13. Treatments were applied with a CO₂ pressurized backpack sprayer delivering 18.5 gpa @ 40 psi. The number of webworm and beet armyworm larvae on each of 10 randomly selected plants per plot was recorded on Sept 13, 22, and 27; Oct 6, 12 and . Data were analyzed using ANOVA and means were separated by Ryan's q-test (P=0.05).

Webworm pressure was low and beet armyworm pressure was low-moderate. All treatments provided significantly better beet armyworm control compared to the untreated check except Assail on Sept 27. No phytotoxicity was observed.

Table 1. Garden Webworm Counts

Treatment	Rate/A	Number Webworms/10 Plants			
		Sept 13 Pre-Trt	Sept 22 6 DAT Trt #1	Sept 27 4 DAT Trt#2	Oct 6 13 DAT Trt#2
Assail 70WP	1.2 oz	1.25a	1.25ab	0.00a	0.25a
TD 2472-01 30WSG	2.75 oz	1.00a	0.50b	0.00a	0.50a
Spintor 2SC	4.5 oz	0.50a	0.25b	0.00a	0.00a
Mustang MAX 0.8EC	4 oz	0.00a	0.50b	0.00a	0.00a
Capture 2EC	2.56 oz	0.50a	0.50b	0.00a	0.00a
Avaunt 30WDG	2.4 oz	0.00a	0.00b	0.00a	0.00a
Avaunt 30WDG	3.5 oz	0.25a	0.50b	0.00a	0.00a
Avaunt 30WDG	6 oz	0.75a	1.00ab	0.00a	0.00a
Intrepid 2F	8 oz	0.50a	0.25b	0.00a	0.00a
Untreated	-----	1.25a	2.50a	0.00a	1.25a

Means within a column followed by the same letter are not significantly different (Ryan's q-test; P=0.05).

Table 1. Beet Armyworm Counts

Treatment	Rate/A	Number Beet Armyworm/10 Plants				
		Sept 13 Pre-Trt	Sept 22 6 DAT Trt #1	Sept 27 4 DAT Trt #2	Oct 6 13 DAT Trt#2	Oct 21 8 DAT #3
Assail 70WP	1.2 oz	0.50a	0.50a	2.75ab	2.25a	2.00b
TD 2472-01 30WSG	2.75 oz	0.50a	0.50a	1.00bc	5.50a	0.75b
Spintor 2SC	4.5 oz	0.50a	0.50a	0.25bc	0.25a	0.00b
Mustang MAX 0.8EC	4 oz	1.00a	0.00a	0.50bc	1.00a	0.00b
Capture 2EC	2.56 oz	0.75a	0.25a	0.25bc	0.75a	0.00b
Avaunt 30WDG	2.4 oz	0.50a	0.00a	0.25bc	0.50a	0.50b
Avaunt 30WDG	3.5 oz	1.25a	0.00a	0.00c	0.50a	0.00b
Avaunt 30WDG	6 oz	1.00a	0.25a	0.25bc	0.25a	0.00b
Intrepid 2F	8 oz	1.75a	0.50a	0.00c	0.75a	0.00b
Untreated	-----	1.75a	2.25a	4.25a	3.75a	4.25a

Means within a column followed by the same letter are not significantly different (Ryan's q-test; P=0.05).