

**Aphid 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 23. Treatments were applied with a CO<sub>2</sub> pressurized backpack sprayer delivering delivering 18.5 gpa @ 40 psi. The number of aphids on each of 10 randomly selected plants per plot was recorded on Sept 22, Sept 27; Oct 6 and 12. Data were analyzed using ANOVA and means were separated by Ryan's q-test (P=0.05).

Aphid pressure was low - moderate. All treatments provided significantly better aphid control compared to the untreated check on Sept 27 and Oct 6. No phytotoxicity was observed.

| Treatment           | Rate/A  | Green Peach Aphids per 10 plants |                  |                 |                  |
|---------------------|---------|----------------------------------|------------------|-----------------|------------------|
|                     |         | Sept 22<br>Pre-Count             | Sept 27<br>4 DAT | Oct 6<br>13 DAT | Oct 12<br>19 DAT |
| Assail 70WP         | 1.2 oz  | 23.50a                           | 0.50b            | 9.00b           | 1.00a            |
| TD 2472-01<br>30WSG | 2.75 oz | 22.00ab                          | 0.00b            | 4.50b           | 1.25a            |
| F1785 50DF          | 2. 1 oz | 13.00ab                          | 0.25b            | 1.75b           | 2.00a            |
| F1785 50DF          | 1.7 oz  | 13.50ab                          | 0.75b            | 2.25b           | 1.75a            |
| Provado 1.6F        | 3.75 oz | 18.75ab                          | 0.00b            | 2.50b           | 1.50a            |
| Actara 25WG         | 2 oz    | 14.25ab                          | 0.50b            | 1.75b           | 1.00a            |
| Fulfill 50WG        | 2.8 oz  | 18.50ab                          | 1.75b            | 3.75b           | 1.50a            |
| Lannate LV          | 1.5 pt  | 9.50b                            | 4.75b            | 3.75b           | 2.00a            |
| Untreated           | -----   | 14.25ab                          | 30.25a           | 20.25a          | 1.75a            |

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