

***Control of Aphids in Fall Spinach, 2009:*** Promising new chemistry and labeled insecticides were evaluated for control of green peach aphids. The spinach variety, 'Vancouver ', was planted on September 25 at the University of Delaware Research and Education Center located near Georgetown, DE. Plots were four rows wide and 20-ft-long planted on 30-inch centers. Each treatment was replicated four times and arranged in a RCB design. The evaluated materials are listed in the tables. In furrow materials were applied soon after plant emergence on October 2 by opening a furrow and directing materials into the furrow using a CO<sub>2</sub> backpack sprayer with a one-nozzle boom delivering 19 gpa at 32 psi. Foliar materials were applied on October 9 using a single nozzle boom delivering 31 gpa at 32 psi. The number of aphids on each of 10 randomly selected plants per plot was recorded on a weekly basis. Data were analyzed using Proc GLM and means were separated by Tukey's mean separation test (P=0.05).

Aphid population pressure was moderate. On Oct 13, the Admire, Durivo, Clutch, Assail and the high rate of Movento treatments provided the best aphid control. On Oct 20, the Durivo, Clutch, Assail, and low rate of Movento provided the best aphid control. No phytotoxicity was observed.

Treatment <sup>1</sup>	Rate/acre	Treatment Dates/Method	Mean Number GPA per 10 plants <sup>1</sup>			
			Pre-Treatment September 29 ( IF Trts)	October 8 (7 DAT – IF), (Pre-trt foliars)	Oct 13 (4 DAT – foliars) (14 DAT – IF)	Oct 20 (11 DAT – foliars) (21 DAT –IF)
Coragen 1.67 SC	5 oz	IF-Oct 2	0.25a	4.50ab	5.50bc	8.50a
Admire Pro	10.5 oz	IF-Oct2	1.75a	2.75ab	1.50c	1.50bc
Durivo 2.5SC	13 oz	IF-Oct2	0.50a	0.50b	0.50c	0.00c
Clutch	3oz	Foliar - Oct 9	1.50a	7.50ab	0.25c	0.75c
Clutch	4 oz	Foliar – Oct 9	0.75a	5.25ab	1.00c	1.25c
Movento 240 SC + LI-700	4 oz + 0.25% v/v	Foliar – Oct 9	0.25a	2.75ab	1.75bc	0.75c
Assail 30SG	4 oz	Foliar – Oct 9	1.75a	4.00ab	0.50c	1.25c
Lannate LV	32 oz	Foliar – Oct 9	2.75a	12.00a	7.00b	8.00a
Movento 240 SC + LI 700	5 oz + 0.25% v/v	Foliar – Oct 9	3.75a	6.60ab	1.00c	4.25abc
Untreated	---	---	0.75a	5.50ab	13.50a	7.25ab

<sup>1</sup> Means within a column followed by the same letter are not significantly different (Tukey's, P=0.05).