

**Wireworm Management in Potatoes, 2004:** 'Superior' potatoes were planted on March 23 at the University of Delaware's Research and Education Center located near Georgetown, DE. Plots consisted of two 25-ft-long plots planted on 3- ft centers. Each treatment was replicated 4 times in a RCB design. Broadcast pre-plant applications were applied in 21 gallons of water per acre @ 40 psi and incorporated immediately before planting with a rototiller. Liquid in-furrow treatments were applied directly in-furrow over the seed piece with a one-nozzle hand-held sprayer delivering 5 gals per acre @ 40 psi. All Vydate treatments were applied as a broadcast spray over the rows using a hand-held sprayer delivering 21 gal/A @ 40 psi and incorporated with normal cultivation procedures. The granular Thimet treatment was applied in-furrow at planting with a hand-held shaker. In season, all the tubers from 10 ft of row were collected from each treatment on June 14, July 19 and Aug 9. All tubers were evaluated for the percentage of tubers damaged by wireworm and the number of wireworm entrance holes per tuber. Data were analyzed using ANOVA and means were separated by Ryan's q-test (P=0.05).

Wireworm pressure was low. No differences were seen between the treatments and the untreated check. No phytotoxicity was observed.

#### 1. Wireworm Damaged Tubers

Treatment	Application Timing And Date	Rate/A	% WW Damaged Tubers		
			June 14	July 19	Aug 9
Vydate CLV	Emergence-dragoff(4/27)	2 qt - 50% band			
Vydate CLV	2 weeks later (5/12)	1 qt BC			
Vydate CLV	21 days later(5/26)	1 qt BC	1.92a	1.72a	11.51a
Asana XL	BC before planting	9.6 oz/A	0.00a	3.23a	0.96a
Capture 2EC	BC before planting	19.2 oz/A	0.67a	2.25a	3.89a
Regent 4SC	In-furrow	3.2 oz/A	2.98a	4.16a	1.49a
Admire	In-furrow	16 oz/A	0.00a	1.76a	4.77a
Platinum	In-furrow	6.5 oz	1.49a	4.51a	6.52a
Regent + Admire	In-furrow	3.2 + 16 oz	0.66a	2.07a	2.50a
Regent+ Platinum	In-furrow	3.2 + 6.5 oz	0.00a	2.70a	2.23a
Thimet	In-furrow	11.3 oz/1000ft	0.00a	3.54a	4.68a
Untreated	----	----	0.00a	4.83a	3.64a

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

## 2. Number Holes per Tuber

Treatment	Application Timing and Date	Mean Number Wireworm Holes per Tuber		
		June 14	July 19	Aug 9
Vydate CLV Vydate CLV Vydate CLV	At emergence-dragoff 2 weeks later 21 days later	0.02a	0.02a	0.14a
Asana XL	BC before planting	0.00a	0.03a	0.01a
Capture 2EC	BC before planting	0.01a	0.03a	0.03a
Regent 4SC	In-furrow	0.03a	0.05a	0.01a
Admire	In-furrow	0.00a	0.02a	0.07a
Platinum	In-furrow	0.01a	0.05a	0.08a
Regent + Admire	In-furrow	0.01a	0.02a	0.03a
Regent+ Platinum	In-furrow	0.00a	0.03a	0.02a
Thimet	In-furrow	0.00a	0.04a	0.05a
Untreated	----	0.00a	0.05a	0.04a

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