

Wireworm Management in Field Corn Using Seed Treatments and Soil Insecticides, 2003: ‘N70-D5’ was planted on May 2 at Murray Brothers Farms located near Selbyville, DE at a rate of 26,000 plants per acre. Four-row 30 foot long plots on 30-inch centers were replicated 4 times in a RCB design. Seeds treatments were commercially applied by Gustafson and Syngenta Seeds. The liquid in-furrow treatments were applied in 5.5 gallons of water per acre. Stand counts and wireworm damaged plants were evaluated on a 7-10 day basis from May 14 through June 17. Yields were taken from the center two rows of each plot on September 16. Data were analyzed using ANOVA and means were separated by Ryan’s q-test (P=0.05).

Wireworm pressure was moderate. On May 20 and 28, all treatments provided significantly better wireworm control compared to the untreated check. On May 20, 28 and June 2, all treatments provided significantly higher stand counts compared to the untreated check except Gaucho plus Warrior and Warrior alone. No phytotoxicity was observed.

I. Insect Damage Data

Treatment	Rate	% Wireworm Damaged Plants				
		May 14	May 20	May 28	June 2	June 10
Poncho	.25 mg ai/seed	0.00b	0.76b	2.37bc	3.0a	3.96a
Gaucho	.161 mg ai/seed	0.93ab	1.89b	1.91bcd	3.34a	3.58a
Gaucho + Kernel Guard	.161 mg ai/seed + 3.57 oz/cwt	0.27b	0.83b	0.00d	3.66a	3.88a
Gaucho + Warrior	.161 mg ai/seed + 3.84 oz/A	2.31ab	2.56b	3.24b	4.43a	3.86a
Cruiser 5F	.125 mg ai/seed	0.00b	1.5b	1.47bcd	7.06a	6.37a
Cruiser 5F + Kernel Guard	.125 mg ai/seed+ 3.57 oz/cwt	0.35b	1.11b	2.57bc	4.54a	4.63a
Cruiser 5F + Warrior	.125 mg ai/seed + 3.84 oz/A	0.00b	1.08b	2.14bcd	6.46a	6.97a
Kernel Guard	3.57 oz/cwt	0.61ab	1.44b	0.92cd	5.74a	6.06a
Warrior	3.84 oz/A	1.45ab	1.01b	1.81bcd	3.92a	5.45a
Untreated	-----	3.01a	5.54a	5.51a	8.58a	9.63a

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

II. Stand Count and Yield Data

Treatment	Yield BU/A *	Plants per 60 ft of row				
		May 14	May 20	May 28	June 2	June 10
Poncho	161.64a	96.25a	95.50a	93.75a	92.25a	79.25a
Gaicho	122.48ab	87.50ab	83.25abc	81.75ab	78.25ab	74.00ab
Gaicho + Kernel Guard	136.97ab	83.75ab	86.25abc	83.00ab	83.25ab	80.25a
Gaicho + Warrior	111.77ab	66.00bc	69.25cd	62.00c	58.00c	64.75ab
Cruiser 5F	143.33ab	88.25ab	88.25ab	81.00ab	72.25bc	74.00ab
Cruiser 5F + Kernel Guard	126.43ab	81.00abc	86.50abc	88.00a	77.75ab	78.75a
Cruiser 5F + Warrior	115.67ab	82.75abc	85.75abc	81.00ab	82.50ab	76.50a
Kernel Guard	141.46ab	80.25abc	87.75abc	85.75a	76.75ab	73.25ab
Warrior	115.81ab	72.00bc	72.00bcd	69.00bc	64.75bc	60.75ab
Untreated	81.77b	61.00c	63.50d	61.75c	55.50c	49.25b

* Yield Data – based on 3 reps (Rep I had significant water damage and some bird damage)
 Means within a column followed by the same letter are not significantly different (Ryans Q; P=0.05)