

Evaluation of Seed Treatments for Soybean Insect Management - 2004:

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An early planting of Round-Up Ready 'CL-48" soybeans was established at Baker Farms Inc. near Middletown, DE and at the University of Delaware Research and Education Center (REC) near Georgetown, DE. A late planting was also established at the REC. Four row plots 30 ft long plots on 30-inch center were replicated 4 times in a RCB design. The Cruiser seed treatment was commercially applied by Syngenta Seeds. Insect populations and stand counts were evaluated weekly for six weeks after plant emergence. Data were analyzed using ANOVA and means were separated by Ryan's q-test (P=0.05).

Bean leaf beetle and thrips populations were low-moderate. In general, the Cruiser treatment provided the best bean leaf beetle and thrips control at both locations. No phytotoxicity was observed.

I. University of Delaware, Research and Education Center, Georgetown, DE

Planting Date # 1: April 28

Harvest Date: October 12

Treatment	Rate	Yield - BU/A	Stand Count Plants per 60 ft row May 10	% Plants with BLB Damage * May 19	Thrips/20 leaflets			
					May 24	June 1	June 8	June 22
Cruiser	50 g ai/100 kg seed	66.45a	456.25 a	5.31b	0.00c	1.75b	5.25b	8.00a
Agrox Premiere	1.5 oz/42 lbs seed	66.71a	453.00a	22.01a	15.25b	91.00a	74.00a	18.00a
AGST0301	1.5 oz/42 lbs seed	65.51a	409.00b	12.85ab	19.00ab	77.00a	105.25a	13.75a
Untreated	-----	66.18a	391.75b	21.65a	21.75a	83.25a	74.25a	10.50a

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

Planting Date #2: July 6

Harvest Date:

Treatment	Rate	Yield - BU/A	Stand Count Plants per 40 ft row July 14	Thrips per 20 leaflets	
				July 20	July 26
Cruiser	50 g ai/100 kg seed	40.86a	383.25a	2.75b	2.50b
Agrox Premiere	1.5 oz/42 lbs seed	37.91a	361.00a	19.50a	22.50a
AGST0301	1.5 oz/42 lbs seed	35.00a	347.50a	5.00b	36.50a
Untreated	-----	40.22a	348.75a	15.75a	31.00a

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

II. Baker Farms Demonstration Site, Middletown, DE

Planting Date # 1: May 12

Harvest Date: October 18

Treatment	Rate	Yield - BU/A	Stand Count Plants per 40 ft row May 28	% BLB Damaged Plants		Thrips per 20 leaflets	
				May 28	June 10	May 28	June 10
Cruiser	50 g ai/100 kg seed	60.51a	208.50a	2.30b	9.68b	1.25b	6.25b
Agrox Premiere	1.5 oz/42 lbs seed	49.21a	203.25a	17.25a	38.47a	18.00a	65.75a
AGST0301	1.5 oz/42 lbs seed	55.13a	199.75a	16.55a	43.63a	19.00a	54.50a
Untreated	-----	54.18a	197.75a	24.81a	49.72a	19.50a	62.50a

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