

***Insect Management In Snap Beans with Seed Treatments and Foliar Insecticides, 2003:*** 'Tru-Blue' snap beans were planted on May 13 at the University of Delaware's Research and Education Center located near Georgetown, DE. Plots consisted of four 25 ft-long plots on 30-inch centers. Seed-applied treatments were applied commercially by Syngenta Seeds. Foliar treatments were applied on June 17 and 26 as a broadcast spray with a CO<sub>2</sub> pressurized back pack sprayer delivering 18 gpa at 40 psi. Stand Counts were evaluated at emergence on May 27 and on June 11 and 16. The number of thrips and leafhoppers per 10 leaflets were counted on weekly basis from the first true-leaf stage through July 2. At harvest maturity (July 11), all the beans in 6 ft of row were harvested and weighed for yield. Data were analyzed using ANOVA and means were separated by Ryan's q-test (P=0.05).

Thrips and leafhopper pressure was moderate. Seed corn maggot pressure was low so no differences in stand counts were observed between the treatments and the untreated check. On July 2, the dimethoate and Warrior treatments provided significantly better potato leafhopper and thrips control compared to the untreated check. No phytotoxicity or stand reduction was observed.

### ***I. Stand Count Data***

Treatments	Insecticide Rate	Plants per 40 Foot of Row		
		May 27	June 11	June 16
Untreated	-----	138.00a	151.50a	147.75a
Maxium, Apron, Strep	-----	127.50a	150.25a	146.75a
Maxium, Apron, Strep, Cruiser	30 g ai/100 kg seed	126.00a	168.25a	146.00a
Max, Apron, Strep, Cruiser	50 g ai/100 kg seed	112.75ab	151.00a	140.75a
Max, Apron, Strep, Cruiser	75 g ai/100 kg seed	118.00ab	154.00a	137.50a
Max, Apron, Strep, Lorsban	62 g ai/100 kg seed	119.75ab	154.50a	136.25a
Captan, Allegiance, Strep Gaucho	60 g ai/100 kg seed	65.75b	144.50a	132.00a
Maxium, Apron, Strep, Protégé, Cruiser	30 g ai/100 kg	137.50a	145.25a	137.00a
Maxium, Apron, Strep, Dimethoate	8 oz/A	121.50ab	151.25a	139.00a
Maxium, Apron, Strep, Warrior	3.2 oz/A	139.75a	154.25a	139.00a

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

## II. Potato Leafhoppers per 10 leaflets

Treatment	Insecticide Rate	Potato Leafhoppers per 10 leaflets				
		June 11	June 16	June 20	June 25	July 2
Untreated	-----	0.00a	1.25a	2.00a	5.00ab	11.50abc
Maxium, Apron, Strep	-----	0.25a	0.75a	0.75a	3.50ab	16.75ab
Maxium, Apron, Strep, Cruiser	30 g ai/100 kg seed	0.00a	0.25a	0.00a	0.50b	7.75bcd
Max, Apron, Strep, Cruiser	50 g ai/100 kg seed	0.00a	0.75a	0.00a	0.50b	2.50cd
Max, Apron, Strep, Cruiser	75 g ai/100 kg seed	0.25a	0.50a	0.00a	0.00b	2.25cd
Max, Apron, Strep, Lorsban	62 g ai/100 kg seed	0.00a	1.00a	0.50a	9.25a	15.00ab
Captan, Allegiance, Strep Gaucho	60 g ai/100 kg seed	0.00a	1.00a	0.50a	4.00ab	20.50a
Maxium, Apron, Strep, Protégé, Cruiser	30 g ai/100 kg	0.00a	0.00a	1.75a	5.50ab	11.25abc
Maxium, Apron, Strep, Dimethoate	8 oz/A	0.00a	1.25a	0.00a	1.25b	1.00d
Maxium, Apron, Strep, Warrior	3.2 oz/A	0.00a	1.25a	0.00a	1.00b	0.00d

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

**III. Thrips per 10 leaflets and Yield**

Treatment	Yield Tons/A	Thrips per 10 leaflets				
		June 11	June 16	June 20	June 25	July 2
Untreated	1.94a	9.25ab	16.75ab	20.50a	27.00a	79.75abc
Maxium, Apron, Strep	2.40a	8.75ab	19.75a	14.75ab	23.50ab	106.00a
Maxium, Apron, Strep, Cruiser	2.62a	0.50b	0.75b	5.00b	2.50c	24.75bc
Max, Apron, Strep, Cruiser	3.39a	0.50b	1.75b	2.75b	2.00c	12.00c
Max, Apron, Strep, Cruiser	2.87a	0.00b	0.75b	1.75b	3.50bc	7.75c
Max, Apron, Strep, Lorsban	2.58a	14.75a	29.25a	22.00a	27.00a	93.75ab
Captan, Allegiance, Strep Gaucho	2.41a	3.25b	24.00a	26.50a	20.50abc	117.25a
Maxium, Apron, Strep, Protégé, Cruiser	2.63a	7.25ab	25.75a	21.00a	19.75abc	71.25abc
Maxium, Apron, Strep, Dimethoate	3.33a	6.25ab	24.00a	1.25b	12.25abc	6.50c
Maxium, Apron, Strep, Warrior	3.40a	16.00a	25.50a	1.50b	12.75abc	7.75c

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