

**Evaluation of Soybean Seed Treatments, 2010:** ‘NKS43-N6’ soybeans were planted on May 10 at the University of Delaware’s Research and Extension Center located near Georgetown, DE. Plots 30 ft wide x 46 ft long were planted on 15 inch centers. Each treatment was replicated four times and arranged in a RCB design. Manure was broadcast across the entire plot and a two-inch band of bone and meat meal was placed over 6 rows at planting at a rate of 320 grams per 20 foot of row to increase adult seed corn maggot fly egg laying. Stand counts were taken for four weeks starting at plant emergence. Insect counts were taken on a weekly basis from plant emergence through early pod set. Insect data collected included seed corn maggot; bean leaf beetle damaged plants per 3 ft of row; number of potato leafhoppers, grasshoppers and bean leaf beetles per sweep; and number of thrips per leaf. Yield data was taken in all plots at physiological maturity on November 10.

Overall, insect pressure was low and no significant yield difference was observed between the untreated control and the seed treatments.

**Table 1. Stand Counts and Yield**

Treatment	Rate/100 lb seed	Yield BU/A Nov 10	Stand Count per 3 ft/row <sup>1</sup>			
			May 19	May 27	June 4	June 15
Untreated	----	58.20a	5.58ab	10.50a	13.67a	11.25a
Maxim 4FS + Apron XL Cruiser 5FS	0.80 fl oz + 0.64 fl oz + 1.28 oz	58.13a	5.00ab	14.25a	15.42a	13.03a
Trilex 2SC+ Allegiance-FL + Yield Shield + Gaucho 600FS	0.32 fl oz + 0.75 fl oz + 1.0 fl oz + 1.60 fl oz	59.67a	8.58a	13.50a	14.92a	9.75a
Rancona XXTRA + V-10209 + Nipsit	3.5 fl oz +  0.55 fl + 1.28 fl oz	61.87a	3.00b	14.50a	13.25a	11.75a

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

**Table 2. Seed Corn Maggot (SCM) Counts**

Treatment	Rate/100 lb seed	SCM Damaged Seeds per 3 ft May 19 <sup>1</sup>	% SCM Infested Seeds <sup>1</sup>	
			May 19	May 27
Untreated	----	0.00a	0.75a	0.20a
Maxim 4FS + Apron XL + Cruiser 5FS	0.80 fl oz + 0.64 fl oz+ 1.28 oz	0.50a	0.00a	0.04a
Trilex 2SC+ Allegience-FL + Yield Shield + Gaucho 600FS	0.32 fl oz + 0.75 fl oz + 1.0 fl oz + 1.60 fl oz	0.08a	0.00a	0.05a
Rancona XXTRA + V-10209 + Nipsit	3.5 fl oz+ 0.55 fl + 1.28 fl oz	0.17a	0.00a	0.04a

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

**Table 3. Bean Leaf Beetle Counts**

Treatment	Rate/100 lb seed	Bean Leaf Beetle Damaged Plants per 3 ft of row <sup>1</sup>			
		June 4	June 8	June 15	June 22
Untreated	----	8.67a	9.67a	4.83ab	0.50a
Maxim 4FS + Apron XL+ Cruiser 5FS	0.80 fl oz + 0.64 fl oz+ 1.28 oz	4.75a	3.92b	3.83b	1.50a
Trilex 2SC+ Allegience-FL + Yield Shield + Gaucho 600FS	0.32 fl oz + 0.75 fl oz + 1.0 fl oz + 1.60 fl oz	4.09a	7.34ab	4.50ab	1.50a
Rancona XXTRA + V-10209 + Nipsit	3.5 fl oz+  0.55 fl + 1.28 fl oz	4.08a	5.58ab	6.00a	2.50a

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

**Table 4. Thrips Counts**

Treatment	Rate/100 lb seed	Number of Thrips per 20 leaflets <sup>1</sup>				
		June 8	June 15	June 22	June 28	July 6
Untreated	----	18.50a	14.50a	7.75a	6.00a	3.75a
Maxim 4FS + Apron XL+ Cruiser 5FS	0.80 fl oz + 0.64 fl oz+ 1.28 oz	1.75b	6.25a	8.00a	5.00ab	3.75a
Trilex 2SC+ Allegiance-FL + Yield Shield + Gaucho 600FS	0.32 fl oz + 0.75 fl oz + 1.0 fl oz + 1.60 fl oz	2.75b	10.00a	10.75a	2.25b	4.50a
Rancona XXTRA + V-10209 + Nipsit	3.5 fl oz+  0.55 fl + 1.28 fl oz	4.50ab	11.75a	5.75a	2.75ab	6.75a

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

**Table 5. Grasshopper Counts**

Treatment	Rate/100 lb seed	Number of Grasshoppers per 20 Sweeps <sup>1</sup>			
		June 15	June 22	June 28	July 6
Untreated	----	0.75a	0.25a	1.75a	0.50a
Maxim 4FS + Apron XL+ Cruiser 5FS	0.80 fl oz + 0.64 fl oz+ 1.28 oz	0.75a	0.25a	0.75a	0.50a
Trilex 2SC+ Allegiance-FL + Yield Shield + Gaucho 600FS	0.32 fl oz + 0.75 fl oz + 1.0 fl oz + 1.60 fl oz	0.75a	1.25a	1.75a	1.00a
Rancona XXTRA + V-10209 + Nipsit	3.5 fl oz+  0.55 fl + 1.28 fl oz	0.50a	0.50a	1.00a	1.50a

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