

DuPont Crop Protection Demonstration in Soybean.

Trial ID: 12-21N-ME80

Location: Belleville Res. Center

Investigator: Bryan Young

General Trial Information

Study Director: Bryan Young
Investigator: Bryan Young **Title:** Professor

Trial Status: F - one-year/final
Initiation Date: 5-23-12

Trial Location

City: Belleville
State/Prov.: IL
Postal Code: 62221
Country: USA

Objectives:

Demonstrate the performance of DuPont crop protection products in soybean.

Personnel

Study Director: Bryan Young
Investigator: Bryan Young **Title:** Professor
Affiliation: Southern Illinois University
Address: 1205 Lincoln Drive - AG 176 - MC 4415
Location: Carbondale IL
Postal Code: 62901 **E-mail:** bgyoung@siu.edu
Phone No.: 618-453-7679 **Mobile No.:** 618-713-6471

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832 **Description:** RR2Y
BBCH Scale: BSOY **Planting Date:** 5-23-12
Planting Method: SEEDED Seeded **Rate, Unit:** 75 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 30 IN

Pest Description

Pest 1 Type: W **Code:** SETFA - Setaria faberi Herrm.
Common Name: foxtail, giant

Pest 2 Type: W **Code:** ABUTH - Abutilon theophrasti Medik.
Common Name: velvetleaf

Pest 3 Type: W **Code:** IPOHE - Ipomoea hederacea (L.) Jacq.
Common Name: morningglory, ivyleaf

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 90 FT
Plot Area, Unit: 900 FT2 **Tillage Type:** REDTIL reduced-till
Replications: 1 **Study Design:** RACOB� Randomized Complete Block (RCB)

No.	Previous Crop	Year
1.	ZEAMD	2011

Maintenance

No.	Maintenance Treatment Name
1.	N 0 LB/A, P205 0 LB/A, K20 150 LB/A

Soil Description

% OM: 2.1 **Texture:** SIL SILT LOAM
pH: 6 **Soil Name:** BETHALTO
CEC: 12

Additional Measured Elements

Element	Quantity	Unit
P1	89	LB/A
K	400	LB/A

Moisture and Weather Conditions

Overall Moisture Conditions: BELNOR below normal
Closest Weather Station: ICN - Belleville IL **Distance, Unit:** 0.5 MI

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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-24-12					7	DAY	42.6	74.3	F
2.	4-29-12	3.06	IN	RAIN	rain					
3.	4-30-12	0.66	IN	RAIN	rain					
4.	5-1-12	0.13	IN	RAIN	rain					
5.	5-1-12					7	DAY	33.5	76	F
6.	5-4-12	0.25	IN	RAIN	rain					
7.	5-7-12	0.29	IN	RAIN	rain					
8.	5-8-12					7	DAY	47.5	87.8	F
9.	5-15-12					7	DAY	37.7	81.3	F
10.	5-21-12	0.18	IN	RAIN	rain					
11.	5-22-12					7	DAY	47.6	82.3	F
12.	5-29-12					7	DAY	48.1	90	F
13.	5-30-12	0.07	IN	RAIN	rain					
14.	5-31-12	0.21	IN	RAIN	rain					
15.	6-5-12					7	DAY	50.2	90.1	F
16.	6-11-12	0.75	IN	RAIN	rain					
17.	6-12-12					7	DAY	52.4	93.6	F
18.	6-17-12	0.36	IN	RAIN	rain					
19.	6-19-12					7	DAY	56.3	94	F
20.	6-26-12					7	DAY	51.8	105.4	F
21.	7-3-12					7	DAY	68.9	104.7	F
22.	7-8-12	0.28	IN	RAIN	rain					
23.	7-10-12					7	DAY	63.4	95	F
24.	7-17-12					7	DAY	61	102.2	F
25.	7-24-12					7	DAY	61	103	F
26.	7-29-12	0.15	IN	RAIN	rain					
27.	7-31-12					7	DAY	60.2	99.1	F
28.	8-5-12	0.18	IN	RAIN	rain					
29.	8-7-12					7	DAY	50.2	99.8	F
30.	8-13-12	0.88	IN	RAIN	rain					
31.	8-14-12					7	DAY	51	95.6	F
32.	8-17-12	1.19	IN	RAIN	rain					
33.	8-21-12					7	DAY	54.7	94.2	F
34.	8-26-12	0.04	IN	RAIN	rain					
35.	8-27-12	1.66	IN	RAIN	rain					
36.	8-31-12	0.11	IN	RAIN	rain					

Application Description

	A	B	C
Application Date:	5-24-12	6-22-12	8-1-12
Time of Day:	8:00	8:00	9:00
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	V2	R3
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	RJW	LAH	RJW
Air Temperature, Unit:	75 F	76 F	80 F
% Relative Humidity:	54	62	57
Wind Velocity, Unit:	8 MPH	2 MPH	6 MPH
Wind Direction:	S	N	E
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	69 F	76 F	80 F
Soil Moisture:	BELNOR	BELNOR	BELNOR
% Cloud Cover:	30	20	30
Next Rain Occurred On:	5-30-12	7-7-12	8-4-12

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Crop Stage At Each Application			
	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	DESC	DESC	DESC
Stage Majority, Percent:	NA	V2	R3
Stage Minimum, Percent:		V2	R3
Stage Maximum, Percent:		V2	R3
Height, Unit:		8 IN	24 IN
Height Minimum, Maximum:		6 8	22 24

Pest Stage At Each Application			
	A	B	C
Pest 1 Code, Type, Scale:	SETFA W DESC	SETFA W DESC	SETFA W DESC
Stage Majority, Percent:	NA	4	NA
Stage Minimum, Percent:		2	
Stage Maximum, Percent:		5	
Height, Unit:		4 IN	
Height Minimum, Maximum:		1 6	
Density, Unit:		1 FT2	
Pest 2 Code, Type, Scale:	ABUTH W DESC	ABUTH W DESC	ABUTH W DESC
Stage Majority, Percent:	NA	4	NA
Stage Minimum, Percent:		Coty	
Stage Maximum, Percent:		5	
Height, Unit:		2 IN	
Height Minimum, Maximum:		0.5 3	
Density, Unit:		3 FT2	
Pest 3 Code, Type, Scale:	IPOHE W DESC	IPOHE W DESC	IPOHE W DESC
Stage Majority, Percent:	NA	4	NA
Stage Minimum, Percent:		Coty	
Stage Maximum, Percent:		6	
Height, Unit:		1 IN	
Height Minimum, Maximum:		1 3	
Density, Unit:		3 FT2	

Application Equipment			
	A	B	C
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI
Nozzle Type:	TTI	XR	XR
Nozzle Size:	11002	8002	8002
Boom Length, Unit:	10 FT	10 FT	10 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

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Pest Code							GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	SETFA	SETFA		
Crop Code							10-30-12	10-30-12	10-30-12	6-21-12	7-20-12	6-21-12	7-20-12		
Rating Date							Moisture	Test wt.	Yield	Injury	Injury	Control	Control		
Rating Type							Percent	lb/bu	bu/A	Percent	Percent	Percent	Percent		
Rating Unit										-1 DA-B	28 DA-B	-1 DA-B	28 DA-B		
Rating Timing															
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code							
1	CANOPY	75	WG	0.188 lb ai/a	4 oz/a		PRE	A	12.1	57.4	31	0	0	0	0
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		PRE	A							
	APROACH	2.08	SC	0.0975 lb ai/a	6 fl oz/a		R3	C							
	STEWARD	1.25	EC	0.0586 lb ai/a	6 fl oz/a		R3	C							
2	ENVIVE	41.3	WG	0.09 lb ai/a	3.5 oz/a		PRE	A	11.4	58.0	63	0	0	0	97
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		V2	B							
	SYNCHRONY XP	28.4	WG	0.00666 lb ai/a	0.375 oz/a		V2	B							
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	1 qt/a		V2	B							
	N-PAK AMS	3.4	SL	3.92 % v/v	2 lb ai/a		V2	B							
	APROACH	2.08	SC	0.0975 lb ai/a	6 fl oz/a		R3	C							
	STEWARD	1.25	EC	0.0586 lb ai/a	6 fl oz/a		R3	C							
3	ENVIVE	41.3	WG	0.103 lb ai/a	4 oz/a		PRE	A	11.5	57.8	68	0	0	20	97
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		V2	B							
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	1 qt/a		V2	B							
	N-PAK AMS	3.4	SL	3.92 % v/v	2 lb ai/a		V2	B							
	APROACH	2.08	SC	0.0975 lb ai/a	6 fl oz/a		R3	C							
	STEWARD	1.25	EC	0.0586 lb ai/a	6 fl oz/a		R3	C							
4	ENVIVE	41.3	WG	0.103 lb ai/a	4 oz/a		PRE	A	11.2	58.1	63	0	0	70	97
	SENCOR	75	WG	0.188 lb ai/a	4 oz/a		PRE	A							
	CLASSIC	25	WG	0.00516 lb ai/a	0.33 oz/a		V2	B							
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	1 qt/a		V2	B							
	N-PAK AMS	3.4	SL	3.92 % v/v	2 lb ai/a		V2	B							
	APROACH	2.08	SC	0.0975 lb ai/a	6 fl oz/a		R3	C							
	STEWARD	1.25	EC	0.0586 lb ai/a	6 fl oz/a		R3	C							
5	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		V2	B	11.3	57.9	63	.	0	.	99
	CLASSIC	25	WG	0.00516 lb ai/a	0.33 oz/a		V2	B							
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	1 qt/a		V2	B							
	N-PAK AMS	3.4	SL	3.92 % v/v	2 lb ai/a		V2	B							
	APROACH	2.08	SC	0.0975 lb ai/a	6 fl oz/a		R3	C							
	STEWARD	1.25	EC	0.0586 lb ai/a	6 fl oz/a		R3	C							
6	AUTHORITY XL	70	WG	0.219 lb ai/a	5 oz/a		PRE	A	11.8	57.4	68	0	0	50	97
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	1 qt/a		V2	B							
	N-PAK AMS	3.4	SL	3.92 % v/v	2 lb ai/a		V2	B							
	APROACH	2.08	SC	0.0975 lb ai/a	6 fl oz/a		R3	C							
	STEWARD	1.25	EC	0.0586 lb ai/a	6 fl oz/a		R3	C							
7	NONTREATED						14.5	55.0	13	0	0	0	0		
LSD (P=.05)													.		
Standard Deviation													.		
CV													.		

Means followed by same letter do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Code							ABUTH	ABUTH	IPOHE	IPOHE	
Crop Code							6-21-12	7-20-12	6-21-12	7-20-12	
Rating Date							Control	Control	Control	Control	
Rating Type							Percent	Percent	Percent	Percent	
Rating Unit											
Rating Timing											
Trt-Eval Interval							-1 DA-B	28 DA-B	-1 DA-B	28 DA-B	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Unit	Growth Stage	Appl Code			
1	CANOPY	75	WG	0.188 lb ai/a	4 oz/a		PRE	A	50	50	
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		PRE	A			
	APROACH	2.08	SC	0.0975 lb ai/a	6 fl oz/a		R3	C			
	STEWARD	1.25	EC	0.0586 lb ai/a	6 fl oz/a		R3	C		40	
2	ENVIVE	41.3	WG	0.09 lb ai/a	3.5 oz/a		PRE	A	65	97	
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		V2	B			
	SYNCHRONY XP	28.4	WG	0.00666 lb ai/a	0.375 oz/a		V2	B			
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	1 qt/a		V2	B			
	N-PAK AMS	3.4	SL	3.92 % v/v	2 lb ai/a		V2	B			
	APROACH	2.08	SC	0.0975 lb ai/a	6 fl oz/a		R3	C			
	STEWARD	1.25	EC	0.0586 lb ai/a	6 fl oz/a		R3	C		97	
3	ENVIVE	41.3	WG	0.103 lb ai/a	4 oz/a		PRE	A	75	99	
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		V2	B			
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	1 qt/a		V2	B			
	N-PAK AMS	3.4	SL	3.92 % v/v	2 lb ai/a		V2	B			
	APROACH	2.08	SC	0.0975 lb ai/a	6 fl oz/a		R3	C			
	STEWARD	1.25	EC	0.0586 lb ai/a	6 fl oz/a		R3	C		99	
4	ENVIVE	41.3	WG	0.103 lb ai/a	4 oz/a		PRE	A	90	99	
	SENCOR	75	WG	0.188 lb ai/a	4 oz/a		PRE	A			
	CLASSIC	25	WG	0.00516 lb ai/a	0.33 oz/a		V2	B			
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	1 qt/a		V2	B			
	N-PAK AMS	3.4	SL	3.92 % v/v	2 lb ai/a		V2	B			
	APROACH	2.08	SC	0.0975 lb ai/a	6 fl oz/a		R3	C			
	STEWARD	1.25	EC	0.0586 lb ai/a	6 fl oz/a		R3	C		99	
5	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		V2	B		97	
	CLASSIC	25	WG	0.00516 lb ai/a	0.33 oz/a		V2	B			
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	1 qt/a		V2	B			
	N-PAK AMS	3.4	SL	3.92 % v/v	2 lb ai/a		V2	B			
	APROACH	2.08	SC	0.0975 lb ai/a	6 fl oz/a		R3	C			
	STEWARD	1.25	EC	0.0586 lb ai/a	6 fl oz/a		R3	C		99	
6	AUTHORITY XL	70	WG	0.219 lb ai/a	5 oz/a		PRE	A	80	99	
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	1 qt/a		V2	B			
	N-PAK AMS	3.4	SL	3.92 % v/v	2 lb ai/a		V2	B			
	APROACH	2.08	SC	0.0975 lb ai/a	6 fl oz/a		R3	C			
	STEWARD	1.25	EC	0.0586 lb ai/a	6 fl oz/a		R3	C		99	
7	NONTREATED									0	0
LSD (P=.05)						
Standard Deviation						
CV						

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Investigator: Bryan Young

Trial Comments

1. Protocol: DuPont (12-097).
2. Ratings: CI/WC at 0 and 28 DA-B.
3. Yield.
4. On 6-22-12 researcher noted extensive deer feeding on soybeans.
5. Harvested 10-30-12, (2) 30 inch rows by 87 ft.