

Soybean, Tilled Weed Control Studies

Southern Illinois University

General Soybean Herbicide Program Comparison.

Trial ID: 12-TIC-S90

Location: Tree Improvement Ctr.

Investigator: Bryan Young

General Trial Information	
Study Director: Bryan Young	Title: Professor
Investigator: Bryan Young	
Trial Status: F - one-year/final	
Initiation Date: 7-18-12	
Trial Location	
City: Carbondale	
State/Prov.: IL	
Postal Code: 62901	
Country: USA	

Objectives:
Compare the efficacy of various soybean herbicide programs that include standard commercial programs and recent herbicide products.

Personnel	
Study Director: Bryan Young	Title: Professor
Investigator: Bryan Young	
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	Description: RR2Y
Variety: AG3832	Planting Date: 7-18-12
BCH Scale: BSOY	Rate, Unit: 75 LB/A
Planting Method: SEEDED Seeded	
Depth, Unit: 1 IN	
Row Spacing, Unit: 30 IN	

Pest Description	
Pest 1 Type: W	Code: AMARE - Amaranthus retroflexus L.
Common Name: pigweed, redroot	
Pest 2 Type: W	Code: GGGAN
Common Name: grasses, annual	
Description: Mixture of SETFA and DIGSA	

Site and Design	
Plot Width, Unit: 10 FT	Site Type: FIELD field
Plot Length, Unit: 30 FT	
Plot Area, Unit: 300 FT2	Tillage Type: REDTIL reduced-till
Replications: 3	Study Design: RACOB� Randomized Complete Block (RCB)

No.	Previous Crop	Year
1.	GLXMA	2011

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

Soil Description	
% Sand: 7.79	% OM: 2.54
% Silt: 75.9	pH: 6.3
% Clay: 16.31	CEC: 12.37
Texture: SIL SILT LOAM	
Soil Name: HOSMER	

Additional Measured Elements		
Element	Quantity	Unit
P1	82	LB/A
K	300	LB/A

Moisture and Weather Conditions										
Overall Moisture Conditions: NORMAL normal										
Closest Weather Station: ICN - Carbondale IL Distance, Unit: 1.5 MI										
No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	6-4-12	0.16	IN	RAIN	rain					
2.	6-5-12					7	DAY	48.5	88.8	F

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3.	6-11-12	0.62	IN	RAIN	rain					
4.	6-12-12					7	DAY	49.8	91.1	F
5.	6-17-12	0.06	IN	RAIN	rain					
6.	6-19-12					7	DAY	55.4	96.4	F
7.	6-26-12					7	DAY	51.1	105.4	F
8.	7-3-12					7	DAY	71.1	105	F
9.	7-8-12	1.15	IN	RAIN	rain					
10.	7-10-12					7	DAY	65.9	93.9	F
11.	7-14-12	0.11	IN	RAIN	rain					
12.	7-16-12	0.02	IN	RAIN	rain					
13.	7-17-12					7	DAY	60	102.3	F
14.	7-17-12	0.02	IN	RAIN	rain					
15.	7-19-12	1.0	IN	SPWACA	sprinkler - water cannon/traveling gun					
16.	7-23-12	0.02	IN	RAIN	rain					
17.	7-24-12					7	DAY	64.1	102.1	F
18.	7-26-12	0.53	IN	RAIN	rain					
19.	7-27-12	0.02	IN	RAIN	rain					
20.	7-29-12	0.27	IN	RAIN	rain					
21.	7-31-12					7	DAY	62.7	97.9	F
22.	8-2-12	0.02	IN	RAIN	rain					
23.	8-3-12	0.02	IN	RAIN	rain					
24.	8-4-12	2.83	IN	RAIN	rain					
25.	8-5-12	2.09	IN	RAIN	rain					
26.	8-7-12					7	DAY	54.1	97.2	F
27.	8-13-12	0.38	IN	RAIN	rain					
28.	8-14-12					7	DAY	51.2	92.5	F
29.	8-16-12	0.66	IN	RAIN	rain					
30.	8-21-12					7	DAY	54.6	94.1	F
31.	8-28-12					7	DAY	54.8	96.2	F
32.	8-31-12	1.54	IN	RAIN	rain					
33.	9-1-12	4.25	IN	RAIN	rain					
34.	9-2-12	0.55	IN	RAIN	rain					
35.	9-3-12	0.03	IN	RAIN	rain					
36.	9-4-12					7	DAY	49.8	93.5	F
37.	9-5-12	0.02	IN	RAIN	rain					
38.	9-6-12	0.23	IN	RAIN	rain					
39.	9-7-12	0.44	IN	RAIN	rain					
40.	9-11-12					7	DAY	52.2	83.5	F
41.	9-15-12	0.03	IN	RAIN	rain					
42.	9-16-12	0.06	IN	RAIN	rain					
43.	9-17-12	0.22	IN	RAIN	rain					
44.	9-18-12					7	DAY	36.5	78.1	F
45.	9-21-12	0.01	IN	RAIN	rain					
46.	9-25-12					7	DAY	46.2	85.4	F
47.	9-26-12	0.22	IN	RAIN	rain					
48.	9-28-12	0.06	IN	RAIN	rain					
49.	10-1-12	0.39	IN	RAIN	rain					
50.	10-2-12					7	DAY	34.9	78.6	F
51.	10-3-12	0.13	IN	RAIN	rain					
52.	10-5-12	0.32	IN	RAIN	rain					
53.	10-9-12					7	DAY	31.7	78.8	F
54.	10-11-12	0.14	IN	RAIN	rain					
55.	10-13-12	0.03	IN	RAIN	rain					
56.	10-14-12	0.25	IN	RAIN	rain					
57.	10-16-12					7	DAY	43	78.7	F
58.	10-17-12	1.12	IN	RAIN	rain					
59.	10-19-12	0.06	IN	RAIN	rain					
60.	10-23-12					7	DAY	33.9	79.5	F
61.	10-25-12	0.27	IN	RAIN	rain					
62.	10-26-12	0.35	IN	RAIN	rain					

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Application Description				
	A	B	C	D
Application Date:	7-18-12	8-8-12	9-10-12	9-27-12
Time of Day:	15:30	11:30	13:30	8:00
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	PRE	4-6"W-1	4-6"W-2	2-4"RG
Application Placement:	BROSOI	BROFOL	BROFOL	BROFOL
Applied By:	RJW	NRJ	JRK	JRK
Air Temperature, Unit:	99 F	92 F	80 F	60 F
% Relative Humidity:	42	40	42	57
Wind Velocity, Unit:	2 MPH	1 MPH	1 MPH	0 MPH
Wind Direction:	SW	S	N	
Dew Presence (Y/N):	N no	N no	N no	Y yes
Soil Temperature, Unit:	96 F	81 F	10 F	62 F
Soil Moisture:	BELNOR	NORMAL	NORMAL	NORMAL
% Cloud Cover:	70	10	10	0
Next Rain Occurred On:	7-19-12	8-13-12	9-15-12	9-28-12

Crop Stage At Each Application				
	A	B	C	D
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	DESC	DESC	DESC	DESC
Stage Majority, Percent:	NA	V2	R3	R4
Stage Minimum, Percent:		V2	R3	R3
Stage Maximum, Percent:		V2	R3	R4
Height, Unit:		8 IN	25 IN	26 IN
Height Minimum, Maximum:		6 8	21 25	21 26

Pest Stage At Each Application				
	A	B	C	D
Pest 1 Code, Type, Scale:	AMARE W DESC	AMARE W DESC	AMARE W DESC	AMARE W DESC
Stage Majority, Percent:	NA	6	20	NA
Stage Minimum, Percent:		2	16	
Stage Maximum, Percent:		10	30	
Height, Unit:		5 IN	18 IN	
Height Minimum, Maximum:		1 7	5 24	
Density, Unit:		2 FT2	0.01 FT2	
Pest 2 Code, Type, Scale:	GGGAN W DESC	GGGAN W DESC	GGGAN W DESC	GGGAN W DESC
Stage Majority, Percent:	NA	3	NA	NA
Stage Minimum, Percent:		1		
Stage Maximum, Percent:		4		
Height, Unit:		1 IN		
Height Minimum, Maximum:		1 2		
Density, Unit:		0.25 FT2		

Application Equipment				
	A	B	C	D
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI	30 PSI
Nozzle Type:	XR	XR	XR	XR
Nozzle Size:	8002	8002	8002	8002
Boom Length, Unit:	6.67 FT	6.67 FT	6.67 FT	6.67 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA

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Pest Code	Crop Code	Rating Date					GLXMA 11-2-12	GLXMA 11-2-12	GLXMA 9-10-12	GLXMA 10-1-12	GLXMA 10-22-12			
Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval					Moisture Percent	Yield bu/A	Injury Percent	Injury Percent			
										0 DA-C	21 DA-C	42 DA-C		
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	NONTREATED									15.2 a	25 a	0 a	0 a	0 a
2	PREFIX TOUCHDOWN TOTAL N-PAK AMS	5.29 EC 4.17 SL 100 SL			1.32 lb ai/a 0.78 lb ae/a 5 % v/v	2 pt/a 24 fl oz/a 5 % v/v		PRE 4-6"W-2 C 4-6"W-2 C	A	11.9 b	26 a	0 a	0 a	0 a
3	BOUNDARY FLEXSTAR GT MSO (MSO ULTRA) N-PAK AMS	6.5 EC 3.31 SL 100 SL 100 SL			1.22 lb ai/a 1.24 lb ae/a 1 % v/v 5 % v/v	1.5 pt/a 3 pt/a 1 % v/v 5 % v/v		PRE 4-6"W-2 C 4-6"W-2 C 4-6"W-2 C	A	12.0 b	30 a	0 a	0 a	0 a
4	SEQUENCE FLEXSTAR GT MSO (MSO ULTRA) N-PAK AMS	5.25 SL 3.31 SL 100 SL 100 SL			1.64 lb ae/a 1.24 lb ae/a 1 % v/v 5 % v/v	2.5 pt/a 3 pt/a 1 % v/v 5 % v/v		PRE 4-6"W-2 C 4-6"W-2 C 4-6"W-2 C	A	12.0 b	26 a	0 a	0 a	0 a
5	SONIC DURANGO DMA N-PAK AMS	70 WG 4 SL 100 SL			0.131 lb ai/a 0.75 lb ae/a 5 % v/v	3 oz/a 24 fl oz/a 5 % v/v		PRE 4-6"W-2 C 4-6"W-2 C	A	11.9 b	31 a	0 a	0 a	0 a
6	SONIC DURANGO DMA N-PAK AMS	70 WG 4 SL 100 SL			0.197 lb ai/a 0.75 lb ae/a 5 % v/v	4.5 oz/a 24 fl oz/a 5 % v/v		PRE 4-6"W-2 C 4-6"W-2 C	A	11.9 b	29 a	0 a	0 a	0 a
7	DURANGO DMA FIRSTRATE N-PAK AMS DURANGO DMA N-PAK AMS	4 SL 84 WG 100 SL 4 SL 100 SL			0.75 lb ae/a 0.0158 lb ai/a 5 % v/v 0.75 lb ae/a 5 % v/v	24 fl oz/a 0.3 oz/a 5 % v/v 24 fl oz/a 5 % v/v		4-6"W-1 B 4-6"W-1 B 4-6"W-1 B 2-4"RG D 2-4"RG D		12.0 b	34 a	0 a	0 a	0 a
8	ENVIVE ABUNDIT EXTRA SYNCHRONY XP N-PAK AMS	41.3 WG 3 SL 28.4 WG 100 SL			0.09 lb ai/a 0.75 lb ae/a 0.00586 lb ai/a 5 % v/v	3.5 oz/a 32 fl oz/a 0.33 oz/a 5 % v/v		PRE 4-6"W-2 C 4-6"W-2 C 4-6"W-2 C	A	12.0 b	27 a	0 a	0 a	0 a
9	VALOR XLT ROUNDUP POWERMAX N-PAK AMS	40.3 WG 4.5 SL 100 SL			0.0756 lb ai/a 0.77 lb ae/a 5 % v/v	3 oz/a 22 fl oz/a 5 % v/v		PRE 4-6"W-2 C 4-6"W-2 C	A	11.7 b	34 a	0 a	0 a	0 a
10	FIERCE XLT ROUNDUP POWERMAX N-PAK AMS	55.68 WG 4.5 SL 100 SL			0.139 lb ai/a 0.77 lb ae/a 5 % v/v	4 oz/a 22 fl oz/a 5 % v/v		PRE 4-6"W-2 C 4-6"W-2 C	A	12.1 b	32 a	0 a	0 a	0 a
11	AUTHORITY XL ROUNDUP POWERMAX N-PAK AMS	70 WG 4.5 SL 100 SL			0.175 lb ai/a 0.77 lb ae/a 5 % v/v	4 oz/a 22 fl oz/a 5 % v/v		PRE 4-6"W-2 C 4-6"W-2 C	A	11.7 b	27 a	0 a	0 a	0 a
12	AUTHORITY XL ANTHEM ROUNDUP POWERMAX N-PAK AMS	70 WG 2.15 SE 4.5 SL 100 SL			0.175 lb ai/a 0.101 lb ai/a 0.77 lb ae/a 5 % v/v	4 oz/a 6 fl oz/a 22 fl oz/a 5 % v/v		PRE 4-6"W-2 C 4-6"W-2 C 4-6"W-2 C	A	11.9 b	29 a	0 a	0 a	0 a
13	OPTILL ZIDUA ROUNDUP POWERMAX N-PAK AMS	68 WG 85 WG 4.5 SL 100 SL			0.085 lb ai/a 0.133 lb ai/a 0.77 lb ae/a 5 % v/v	2 oz/a 2.5 oz/a 22 fl oz/a 5 % v/v		PRE PRE 4-6"W-2 C 4-6"W-2 C	A	11.7 b	30 a	0 a	0 a	0 a

Means followed by same letter do not significantly differ (P=0.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Trial ID: 12-TIC-S90

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Pest Code								GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	
Crop Code								11-2-12	11-2-12	9-10-12	10-1-12	10-22-12	
Rating Date								Moisture	Yield	Injury	Injury	Injury	
Rating Type								Percent	bu/A	Percent	Percent	Percent	
Rating Unit													
Rating Timing										0 DA-C	21 DA-C	42 DA-C	
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
14	VALOR SX	51	WG	0.096	lb ai/a	3	oz/a	PRE	A	12.0	b	35	a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"	W-2 C			0	a
	WARRANT	3	CS	1.13	lb ai/a	3	pt/a	4-6"	W-2 C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4-6"	W-2 C				
LSD (P=.05)								0.46	8.9	0.0	0.0	0.0	
Standard Deviation								0.27	5.3	0.0	0.0	0.0	
CV								2.25	17.9	0.0	0.0	0.0	
Replicate F								3.072	5.695	0.000	0.000	0.000	
Replicate Prob(F)								0.0634	0.0089	1.0000	1.0000	1.0000	
Treatment F								31.457	1.146	0.000	0.000	0.000	
Treatment Prob(F)								0.0001	0.3684	1.0000	1.0000	1.0000	

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Trial ID: 12-TIC-S90

Location: Tree Improvement Ctr.

Investigator: Bryan Young

Pest Code	AMARE	AMARE	AMARE	GGGAN	GGGAN	GGGAN									
Crop Code	9-10-12	10-1-12	10-22-12	9-10-12	10-1-12	10-22-12									
Rating Date	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent									
Rating Type	0 DA-C	21 DA-C	42 DA-C	0 DA-C	21 DA-C	42 DA-C									
Rating Unit															
Rating Timing															
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate	Growth Stage	Appl Code						
1	NONTREATED									0 c	0 b	0 b	0 d	0 b	0 b
2	PREFIX TOUCHDOWN TOTAL N-PAK AMS	5.29 EC 4.17 SL 100 SL		1.32 lb ai/a 0.78 lb ae/a 5 % v/v		2 pt/a 24 fl oz/a 5 % v/v		PRE A 4-6"W-2 C 4-6"W-2 C		93 a	99 a	99 a	99 a	99 a	99 a
3	BOUNDARY FLEXSTAR GT MSO (MSO ULTRA) N-PAK AMS	6.5 EC 3.31 SL 100 SL 100 SL		1.22 lb ai/a 1.24 lb ae/a 1 % v/v 5 % v/v		1.5 pt/a 3 pt/a 1 % v/v 5 % v/v		PRE A 4-6"W-2 C 4-6"W-2 C 4-6"W-2 C		97 a	99 a	99 a	99 a	99 a	99 a
4	SEQUENCE FLEXSTAR GT MSO (MSO ULTRA) N-PAK AMS	5.25 SL 3.31 SL 100 SL 100 SL		1.64 lb ae/a 1.24 lb ae/a 1 % v/v 5 % v/v		2.5 pt/a 3 pt/a 1 % v/v 5 % v/v		PRE A 4-6"W-2 C 4-6"W-2 C 4-6"W-2 C		83 b	99 a	99 a	95 ab	99 a	99 a
5	SONIC DURANGO DMA N-PAK AMS	70 WG 4 SL 100 SL		0.131 lb ai/a 0.75 lb ae/a 5 % v/v		3 oz/a 24 fl oz/a 5 % v/v		PRE A 4-6"W-2 C 4-6"W-2 C		96 a	99 a	99 a	90 bc	99 a	99 a
6	SONIC DURANGO DMA N-PAK AMS	70 WG 4 SL 100 SL		0.197 lb ai/a 0.75 lb ae/a 5 % v/v		4.5 oz/a 24 fl oz/a 5 % v/v		PRE A 4-6"W-2 C 4-6"W-2 C		98 a	99 a	99 a	92 bc	99 a	99 a
7	DURANGO DMA FIRSTRATE N-PAK AMS DURANGO DMA N-PAK AMS	4 SL 84 WG 100 SL 4 SL 100 SL		0.75 lb ae/a 0.0158 lb ai/a 5 % v/v 0.75 lb ae/a 5 % v/v		24 fl oz/a 0.3 oz/a 5 % v/v 24 fl oz/a 5 % v/v		4-6"W-1 B 4-6"W-1 B 4-6"W-1 B 2-4"RG D 2-4"RG D		99 a	99 a	99 a	99 a	99 a	99 a
8	ENVIVE ABUNDIT EXTRA SYNCHRONY XP N-PAK AMS	41.3 WG 3 SL 28.4 WG 100 SL		0.09 lb ai/a 0.75 lb ae/a 0.00586 lb ai/a 5 % v/v		3.5 oz/a 32 fl oz/a 0.33 oz/a 5 % v/v		PRE A 4-6"W-2 C 4-6"W-2 C 4-6"W-2 C		99 a	99 a	99 a	94 ab	99 a	99 a
9	VALOR XLT ROUNDUP POWERMAX N-PAK AMS	40.3 WG 4.5 SL 100 SL		0.0756 lb ai/a 0.77 lb ae/a 5 % v/v		3 oz/a 22 fl oz/a 5 % v/v		PRE A 4-6"W-2 C 4-6"W-2 C		97 a	99 a	99 a	91 bc	99 a	99 a
10	FIERCE XLT ROUNDUP POWERMAX N-PAK AMS	55.68 WG 4.5 SL 100 SL		0.139 lb ai/a 0.77 lb ae/a 5 % v/v		4 oz/a 22 fl oz/a 5 % v/v		PRE A 4-6"W-2 C 4-6"W-2 C		99 a	99 a	99 a	99 a	99 a	99 a
11	AUTHORITY XL ROUNDUP POWERMAX N-PAK AMS	70 WG 4.5 SL 100 SL		0.175 lb ai/a 0.77 lb ae/a 5 % v/v		4 oz/a 22 fl oz/a 5 % v/v		PRE A 4-6"W-2 C 4-6"W-2 C		97 a	99 a	99 a	87 c	99 a	99 a
12	AUTHORITY XL ANTHEM ROUNDUP POWERMAX N-PAK AMS	70 WG 2.15 SE 4.5 SL 100 SL		0.175 lb ai/a 0.101 lb ai/a 0.77 lb ae/a 5 % v/v		4 oz/a 6 fl oz/a 22 fl oz/a 5 % v/v		PRE A 4-6"W-2 C 4-6"W-2 C 4-6"W-2 C		99 a	99 a	99 a	92 bc	99 a	99 a
13	OPTILL ZIDUA ROUNDUP POWERMAX N-PAK AMS	68 WG 85 WG 4.5 SL 100 SL		0.085 lb ai/a 0.133 lb ai/a 0.77 lb ae/a 5 % v/v		2 oz/a 2.5 oz/a 22 fl oz/a 5 % v/v		PRE A PRE A 4-6"W-2 C 4-6"W-2 C		99 a	99 a	99 a	99 a	99 a	99 a

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Pest Code		AMARE	AMARE	AMARE	GGGAN	GGGAN	GGGAN								
Crop Code															
Rating Date		9-10-12	10-1-12	10-22-12	9-10-12	10-1-12	10-22-12								
Rating Type		Control	Control	Control	Control	Control	Control								
Rating Unit		Percent	Percent	Percent	Percent	Percent	Percent								
Rating Timing															
Trt-Eval Interval		0 DA-C	21 DA-C	42 DA-C	0 DA-C	21 DA-C	42 DA-C								
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Stage	Appl Code						
14	VALOR SX	51	WG	0.096	lb ai/a	3	oz/a	PRE	A	95 a	99 a	99 a	95 ab	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"	W-2 C						
	WARRANT	3	CS	1.13	lb ai/a	3	pt/a	4-6"	W-2 C						
	N-PAK AMS	100	SL		5 % v/v		5 % v/v	4-6"	W-2 C						
LSD (P=.05)		10.0		0.0		0.0		6.0		0.0		0.0	0.0		0.0
Standard Deviation		6.0		0.0		0.0		3.6		0.0		0.0	0.0		0.0
CV		6.66		0.0		0.0		4.07		0.0		0.0	0.0		0.0
Replicate F		0.727		0.000		0.000		0.173		0.000		0.000	0.000		0.000
Replicate Prob(F)		0.4930		1.0000		1.0000		0.8422		1.0000		1.0000	1.0000		1.0000
Treatment F		57.623		0.000		0.000		153.470		0.000		0.000	0.000		0.000
Treatment Prob(F)		0.0001		1.0000		1.0000		0.0001		1.0000		1.0000	1.0000		1.0000

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Trial Comments

1. Protocol: Syngenta, Dow, DuPont, Valent, FMC, BASF, Monsanto.
2. CI/WC at 0, 21, and 42 DA-C.
3. Yield.
4. GGGAN = Annual grasses including SETFA (giant foxtail) and DIGSA (large crabgrass).
5. Following the PRE application 1.0 inch of irrigation was applied the next day.
6. Harvested 11-2-12, (2) 30 inch rows by 27 ft.