

PRE/POST Programs in Soybean - Syngenta, Dow.

Trial ID: 13-51E-M80 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Trial Status: F one-year/final Initiation Date: 7-12-13 Completion Date: 11-9-13	
Trial Location	
City: Belleville State/Prov.: Illinois IL Postal Code: 62221	Country: USA

Objectives:
Compare crop tolerance and weed efficacy with preemergence soybean herbicides.

Contacts	
Study Director: Bryan Young Organization: Southern Illinois University Address: 1205 Lincoln Drive - AG 176 - MC 4415 City+State/Prov: Carbondale IL Postal Code: 62901 Country: USA	Title: Professor Phone No.: 618-453-7679 Mobile No.: 618-713-6471 E-mail: bgyoung@siu.edu

Crop Description	
Crop 1: GLXMA Glycine max Soybean Variety: AG3832 BBCH Scale: BSOY Description: RR2Y	Planting Date: 7-12-13 Planting Method: SEEDED
Planting Rate, Unit: 75 LB/A Depth, Unit: 1 IN Row Spacing, Unit: 30 IN	

Pest Description	
Pest 1 Type: W Code: IPOHE Ipomoea hederacea (L.) Jacq. Common Name: morningglory, ivyleaf	
Pest 2 Type: W Code: AMATA Amaranthus rudis Sauer Common Name: waterhemp, common	
Pest 3 Type: W Code: ABUTH Abutilon theophrasti Medik. Common Name: velvetleaf	

Site and Design							
Treated Plot Width: 7.5 FT Total Plot Width: 10 FT Treated Plot Length: 27 FT Total Plot Length: 27 FT	Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Study Design: RACOB L Randomized Complete Block (RCB)						
Replications: 4 Untreated Arrangement: INCLUDED single control randomized in each block							
<table border="1" style="width: 100%;"> <tr> <th>No.</th> <th>Previous Crop</th> <th>Year</th> </tr> <tr> <td>1.</td> <td>ZEAMD</td> <td>2012</td> </tr> </table>		No.	Previous Crop	Year	1.	ZEAMD	2012
No.	Previous Crop	Year					
1.	ZEAMD	2012					

Maintenance					
<table border="1" style="width: 100%;"> <tr> <th>No.</th> <th>Maintenance Product Name</th> </tr> <tr> <td>1.</td> <td>N 0 LB/A, P2O5 0 LB/A, K2O 100 LB/A</td> </tr> </table>	No.	Maintenance Product Name	1.	N 0 LB/A, P2O5 0 LB/A, K2O 100 LB/A	
No.	Maintenance Product Name				
1.	N 0 LB/A, P2O5 0 LB/A, K2O 100 LB/A				

Soil Description										
% OM: 2.8 Texture: SIL silt loam pH: 6.1 Soil Name: Pierron CEC: 10										
Additional Measured Elements										
<table border="1" style="width: 100%;"> <tr> <th>Element</th> <th>Quantity</th> <th>Unit</th> </tr> <tr> <td>P1</td> <td>87</td> <td>lb/A</td> </tr> <tr> <td>K</td> <td>343</td> <td>lb/A</td> </tr> </table>		Element	Quantity	Unit	P1	87	lb/A	K	343	lb/A
Element	Quantity	Unit								
P1	87	lb/A								
K	343	lb/A								

Moisture and Weather Conditions	
Overall Moisture Conditions: ABONOR 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.	5-31-13	3.46	IN	RAIN	rain	2	DAY			
2.	6-2-13					7	DAY	50	80	F
3.	6-9-13					7	DAY	59	94	F
4.	6-10-13	0.48	IN	RAIN	rain	2	DAY			
5.	6-16-13					7	DAY	61	90	F
6.	6-17-13	2.16	IN	RAIN	rain	3	DAY			
7.	6-23-13	5.33	IN	RAIN	rain	2	DAY			
8.	6-23-13					7	DAY	64	92	F
9.	6-26-13	0.46	IN	RAIN	rain	1	DAY			
10.	6-29-13	0.19	IN	RAIN	rain	2	DAY			
11.	6-30-13					7	DAY	61	86	F
12.	7-2-13	2.08	IN	RAIN	rain	2	DAY			
13.	7-7-13					7	DAY	62	94	F
14.	7-10-13	0.2	IN	RAIN	rain	1	DAY			
15.	7-14-13					7	DAY	64	94	F
16.	7-15-13	0.03	IN	RAIN	rain	1	DAY			
17.	7-20-13	0.59	IN	RAIN	rain	1	DAY			
18.	7-21-13					7	DAY	56	91	F
19.	7-26-13	0.03	IN	RAIN	rain	1	DAY			
20.	7-28-13					7	DAY	52	87	F
21.	7-30-13	0.46	IN	RAIN	rain	1	DAY			
22.	8-2-13	0.24	IN	RAIN	rain	1	DAY			
23.	8-4-13					7	DAY	62	87	F
24.	8-8-13	0.03	IN	RAIN	rain	3	DAY			
25.	8-11-13					7	DAY	54	85	F
26.	8-12-13	0.57	IN	RAIN	rain	1	DAY			
27.	8-18-13	0.1	IN	RAIN	rain	1	DAY			
28.	8-18-13					7	DAY	61	91	F
29.	8-25-13					7	DAY	62	100	F
30.	8-31-13	0.74	IN	RAIN	rain	1	DAY			
31.	9-1-13					7	DAY	57	92	F
32.	9-8-13	0.26	IN	RAIN	rain	1	DAY			

Application Description

	A	B	C
Application Date:	7-13-13	8-1-13	8-6-13
Appl. Start Time:	6:00	10:00	10:00
Appl. Stop Time:	6:30	10:15	10:30
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	4-6"W-1	4-6"W-2
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	LXF	NTH	KNW
Air Temperature, Unit:	65 F	81 F	79 F
% Relative Humidity:	93	67	82
Wind Velocity, Unit:	1 MPH	4 MPH	1 MPH
Wind Direction:	E	NW	SE
Dew Presence (Y/N):	Y	N	N
Soil Temperature, Unit:	76 F	74 F	74 F
Soil Moisture:	NORMAL	NORMAL	NORMAL
% Cloud Cover:	0	0	80
Next Moisture Occurred On:	7-20-13	8-2-13	8-12-13
Time to Next Moisture, Unit:	7 DAY	1 DAY	6 DAY

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	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA	GLXMA	GLXMA
Stage Scale Used:	DESC	DESC	DESC
Stage Majority, Percent:	NA	V3	V3
Stage Minimum, Percent:		V2	V3
Stage Maximum, Percent:		V3	V3
Height, Unit:		7 IN	8 IN
Height Minimum, Maximum:		4 7	6 8

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	IPOHE W	IPOHE W	IPOHE W
Stage Majority, Percent:	NA	4	10
Stage Minimum, Percent:		COTY	8
Stage Maximum, Percent:		6	10
Height, Unit:		4 IN	5 IN
Height Minimum, Maximum:		0.5 5	4 6
Density, Unit:		2 FT2	0.1 FT2
Pest 2 Code, Type, Scale:	AMATA W	AMATA W	AMATA W
Stage Majority, Percent:	NA	NA	8
Stage Minimum, Percent:			5
Stage Maximum, Percent:			8
Height, Unit:			5 IN
Height Minimum, Maximum:			4 6
Density, Unit:			0.01 FT2
Pest 3 Code, Type, Scale:	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:	NA	4	6
Stage Minimum, Percent:		COTY	4
Stage Maximum, Percent:		6	8
Height, Unit:		4 IN	4 IN
Height Minimum, Maximum:		0.5 6	4 6
Density, Unit:		1 FT2	0.1 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:	XR	XR	XR
Nozzle Size:	8002	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval										GLXMA 11-9-13 Moisture Percent	GLXMA 11-9-13 Test wt. lb/bu	GLXMA 11-9-13 Yield bu/A	GLXMA 7-26-13 Injury Percent 14 DAP 13 DA-A	GLXMA Injury Percent 0 DA-B 0 DA-C	GLXMA Injury Percent 14 DA-B 14 DA-C	GLXMA Injury Percent 28 DA-B 28 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
1	PREFIX TOUCHDOWN TOTAL N-PAK AMS	5.29 EC 4.17 SL 100 SL	EC SL SL	1.32 lb ai/a 0.78 lb ae/a 5 % v/v	ai/a ae/a v/v	2 pt/a 24 fl oz/a 5 % v/v	pt/a fl oz/a v/v	PRE 4-6"W-1 B 4-6"W-1 B	A B B	13.6 a	56.8 a	55 a	2 bc	0 d	1 d	0 g
2	BOUNDARY PREFIX TOUCHDOWN TOTAL N-PAK AMS	6.5 EC 5.29 EC 4.17 SL 100 SL	EC EC SL SL	1.42 lb ai/a 1.32 lb ai/a 0.78 lb ae/a 5 % v/v	ai/a ai/a ae/a v/v	1.75 pt/a 2 pt/a 24 fl oz/a 5 % v/v	pt/a pt/a fl oz/a v/v	PRE 4-6"W-1 B 4-6"W-1 B 4-6"W-1 B	A B B B	13.4 a	56.9 a	52 ab	1 bc	0 d	21 b	9 c
3	BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 EC 2.82 SL 100 SL 100 SL	EC SL SL SL	1.42 lb ai/a 1.41 lb ae/a 1 % v/v 5 % v/v	ai/a ae/a v/v v/v	1.75 pt/a 4 pt/a 1 % v/v 5 % v/v	pt/a pt/a v/v v/v	PRE 4-6"W-1 B 4-6"W-1 B 4-6"W-1 B	A B B B	13.6 a	56.8 a	51 ab	1 bc	0 d	18 bc	9 cd
4	SEQUENCE PREFIX TOUCHDOWN TOTAL N-PAK AMS	5.25 SL 5.29 EC 4.17 SL 100 SL	SL EC SL SL	1.64 lb ae/a 1.32 lb ai/a 0.78 lb ae/a 5 % v/v	ae/a ai/a ae/a v/v	2.5 pt/a 2 pt/a 24 fl oz/a 5 % v/v	pt/a pt/a fl oz/a v/v	PRE 4-6"W-1 B 4-6"W-1 B 4-6"W-1 B	A B B B	13.3 a	57.0 a	53 ab	2 b	0 d	18 bc	4 ef
5	SEQUENCE FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	5.25 SL 2.82 SL 100 SL 100 SL	SL SL SL SL	1.64 lb ae/a 1.41 lb ae/a 1 % v/v 5 % v/v	ae/a ae/a v/v v/v	2.5 pt/a 4 pt/a 1 % v/v 5 % v/v	pt/a pt/a v/v v/v	PRE 4-6"W-1 B 4-6"W-1 B 4-6"W-1 B	A B B B	13.5 a	56.9 a	48 abc	1 bc	0 d	17 c	9 cd
6	VALOR XLT ROUNDUP POWERMAX COBRA COC (PRIME OIL) N-PAK AMS	40.3 WG 4.5 SL 2 EC 100 SL 100 SL	WG SL EC SL SL	0.101 lb ai/a 0.77 lb ae/a 0.188 lb ai/a 1 % v/v 5 % v/v	ai/a ae/a ai/a v/v v/v	4 oz/a 22 fl oz/a 12 fl oz/a 1 % v/v 5 % v/v	oz/a fl oz/a fl oz/a v/v v/v	PRE 4-6"W-2 C 4-6"W-2 C 4-6"W-2 C 4-6"W-2 C	A C C C C	13.5 a	56.9 a	46 bc	6 a	5 bc	29 a	24 b
7	AUTHORITY XL ROUNDUP POWERMAX COBRA COC (PRIME OIL) N-PAK AMS	70 WG 4.5 SL 2 EC 100 SL 100 SL	WG SL EC SL SL	0.284 lb ai/a 0.77 lb ae/a 0.188 lb ai/a 1 % v/v 5 % v/v	ai/a ae/a ai/a v/v v/v	6.5 oz/a 22 fl oz/a 12 fl oz/a 1 % v/v 5 % v/v	oz/a fl oz/a fl oz/a v/v v/v	PRE 4-6"W-2 C 4-6"W-2 C 4-6"W-2 C 4-6"W-2 C	A C C C C	13.6 a	56.8 a	42 c	1 bc	8 b	30 a	27 a
8	SONIC DURANGO DMA N-PAK AMS	70 WG 4 SL 100 SL	WG SL SL	0.131 lb ai/a 0.75 lb ae/a 2.5 % v/v	ai/a ae/a v/v	3 oz/a 24 fl oz/a 2.5 % v/v	oz/a fl oz/a v/v	PRE 4-6"W-2 C 4-6"W-2 C	A C C	13.4 a	56.9 a	56 a	1 bc	4 c	3 d	3 fg
9	SONIC DURANGO DMA N-PAK AMS	70 WG 4 SL 100 SL	WG SL SL	0.197 lb ai/a 0.75 lb ae/a 2.5 % v/v	ai/a ae/a v/v	4.5 oz/a 24 fl oz/a 2.5 % v/v	oz/a fl oz/a v/v	PRE 4-6"W-2 C 4-6"W-2 C	A C C	13.5 a	56.9 a	54 ab	1 bc	7 b	2 d	4 ef
10	SONIC DURANGO DMA N-PAK AMS	70 WG 4 SL 100 SL	WG SL SL	0.263 lb ai/a 0.75 lb ae/a 2.5 % v/v	ai/a ae/a v/v	6 oz/a 24 fl oz/a 2.5 % v/v	oz/a fl oz/a v/v	PRE 4-6"W-2 C 4-6"W-2 C	A C C	13.4 a	56.9 a	52 ab	6 a	13 a	3 d	6 de
11	NONTREATED									13.4 a	56.9 a	25 d	0 c	0 d	0 d	0 g
LSD (P=.05)										0.66	0.24	8.7	2.1	2.8	3.3	3.2
Standard Deviation										0.46	0.16	6.0	1.5	1.9	2.3	2.2
CV										3.42	0.29	12.42	77.98	57.67	18.14	26.46
Replicate F										0.122	0.457	1.595	4.204	4.973	3.093	0.246
Replicate Prob(F)										0.9464	0.7146	0.2113	0.0135	0.0064	0.0418	0.8638
Treatment F										0.214	0.323	8.776	8.105	20.618	99.280	63.757
Treatment Prob(F)										0.9931	0.9685	0.0001	0.0001	0.0001	0.0001	0.0001

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 Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval									IPOHE	IPOHE	IPOHE	AMATA	AMATA	AMATA	
									Control Percent 0 DA-B 0 DA-C	Control Percent 14 DA-B 14 DA-C	Control Percent 28 DA-B 28 DA-C	Control Percent 0 DA-B 0 DA-C	Control Percent 14 DA-B 14 DA-C	Control Percent 28 DA-B 28 DA-C	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	PREFIX TOUCHDOWN TOTAL N-PAK AMS	5.29 EC 4.17 SL 100 SL	EC SL SL	1.32 lb ai/a 0.78 lb ae/a 5 % v/v	ai/a ae/a v/v	2 pt/a 24 fl oz/a 5 % v/v	pt/a fl oz/a v/v	PRE 4-6"W-1 B 4-6"W-1 B	A	68 c	92 cd	96 cd	99 a	99 b	99 a
2	BOUNDARY PREFIX TOUCHDOWN TOTAL N-PAK AMS	6.5 EC 5.29 EC 4.17 SL 100 SL	EC EC SL SL	1.42 lb ai/a 1.32 lb ai/a 0.78 lb ae/a 5 % v/v	ai/a ai/a ae/a v/v	1.75 pt/a 2 pt/a 24 fl oz/a 5 % v/v	pt/a pt/a fl oz/a v/v	PRE 4-6"W-1 B 4-6"W-1 B 4-6"W-1 B	A	69 c	96 abc	97 bcd	99 a	99 a	99 a
3	BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 EC 2.82 SL 100 SL 100 SL	EC SL SL SL	1.42 lb ai/a 1.41 lb ae/a 1 % v/v 5 % v/v	ai/a ae/a v/v v/v	1.75 pt/a 4 pt/a 1 % v/v 5 % v/v	pt/a pt/a v/v v/v	PRE 4-6"W-1 B 4-6"W-1 B 4-6"W-1 B	A	58 d	95 a-d	96 cd	99 a	99 a	99 a
4	SEQUENCE PREFIX TOUCHDOWN TOTAL N-PAK AMS	5.25 SL 5.29 EC 4.17 SL 100 SL	SL EC SL SL	1.64 lb ae/a 1.32 lb ai/a 0.78 lb ae/a 5 % v/v	ae/a ai/a ae/a v/v	2.5 pt/a 2 pt/a 24 fl oz/a 5 % v/v	pt/a pt/a fl oz/a v/v	PRE 4-6"W-1 B 4-6"W-1 B 4-6"W-1 B	A	35 e	92 d	96 d	99 a	99 a	99 a
5	SEQUENCE FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	5.25 SL 2.82 SL 100 SL 100 SL	SL SL SL SL	1.64 lb ae/a 1.41 lb ae/a 1 % v/v 5 % v/v	ae/a ae/a v/v v/v	2.5 pt/a 4 pt/a 1 % v/v 5 % v/v	pt/a pt/a v/v v/v	PRE 4-6"W-1 B 4-6"W-1 B 4-6"W-1 B	A	40 e	95 a-d	96 cd	99 a	99 a	99 a
6	VALOR XLT ROUNDUP POWERMAX COBRA COC (PRIME OIL) N-PAK AMS	40.3 WG 4.5 SL 2 EC 100 SL 100 SL	WG SL EC SL SL	0.101 lb ai/a 0.77 lb ae/a 0.188 lb ai/a 1 % v/v 5 % v/v	ai/a ae/a ai/a v/v v/v	4 oz/a 22 fl oz/a 12 fl oz/a 1 % v/v 5 % v/v	oz/a fl oz/a fl oz/a v/v v/v	PRE 4-6"W-2 C 4-6"W-2 C 4-6"W-2 C 4-6"W-2 C	A	96 ab	97 ab	97 a-d	99 a	99 a	99 a
7	AUTHORITY XL ROUNDUP POWERMAX COBRA COC (PRIME OIL) N-PAK AMS	70 WG 4.5 SL 2 EC 100 SL 100 SL	WG SL EC SL SL	0.284 lb ai/a 0.77 lb ae/a 0.188 lb ai/a 1 % v/v 5 % v/v	ai/a ae/a ai/a v/v v/v	6.5 oz/a 22 fl oz/a 12 fl oz/a 1 % v/v 5 % v/v	oz/a fl oz/a fl oz/a v/v v/v	PRE 4-6"W-2 C 4-6"W-2 C 4-6"W-2 C 4-6"W-2 C	A	97 a	98 a	98 a	99 a	99 a	99 a
8	SONIC DURANGO DMA N-PAK AMS	70 WG 4 SL 100 SL	WG SL SL	0.131 lb ai/a 0.75 lb ae/a 2.5 % v/v	ai/a ae/a v/v	3 oz/a 24 fl oz/a 2.5 % v/v	oz/a fl oz/a v/v	PRE 4-6"W-2 C 4-6"W-2 C	A	87 b	93 bcd	97 abc	95 b	99 a	99 b
9	SONIC DURANGO DMA N-PAK AMS	70 WG 4 SL 100 SL	WG SL SL	0.197 lb ai/a 0.75 lb ae/a 2.5 % v/v	ai/a ae/a v/v	4.5 oz/a 24 fl oz/a 2.5 % v/v	oz/a fl oz/a v/v	PRE 4-6"W-2 C 4-6"W-2 C	A	94 ab	95 a-d	98 ab	98 a	99 a	99 a
10	SONIC DURANGO DMA N-PAK AMS	70 WG 4 SL 100 SL	WG SL SL	0.263 lb ai/a 0.75 lb ae/a 2.5 % v/v	ai/a ae/a v/v	6 oz/a 24 fl oz/a 2.5 % v/v	oz/a fl oz/a v/v	PRE 4-6"W-2 C 4-6"W-2 C	A	95 ab	93 bcd	98 a	99 a	99 a	99 a
11	NONTREATED									0 f	0 e	0 e	0 c	0 c	0 c
LSD (P=.05)									9.3	3.9	1.6	1.4	0.4	0.2	
Standard Deviation									6.4	2.7	1.1	1.0	0.3	0.2	
CV									9.61	3.18	1.27	1.1	0.34	0.17	
Replicate F									4.185	1.163	4.958	1.761	1.000	1.000	
Replicate Prob(F)									0.0137	0.3400	0.0065	0.1759	0.4064	0.4064	
Treatment F									95.667	436.900	2714.748	3659.566	39165.404	156737.816	
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval										ABUTH	ABUTH	ABUTH
										Control Percent 0 DA-B 0 DA-C	Control Percent 14 DA-B 14 DA-C	Control Percent 28 DA-B 28 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Other Rate	Other Rate	Unit	Growth Stage	Appl Code		
1	PREFIX TOUCHDOWN TOTAL N-PAK AMS	5.29 4.17 100	EC SL SL	1.32 0.78 5	lb ai/a lb ae/a % v/v	2 24 5	pt/a fl oz/a % v/v		PRE 4-6"W-1 4-6"W-1	A B B	70 b	95 d
2	BOUNDARY PREFIX TOUCHDOWN TOTAL N-PAK AMS	6.5 5.29 4.17 100	EC EC SL SL	1.42 1.32 0.78 5	lb ai/a lb ai/a lb ae/a % v/v	1.75 2 24 5	pt/a pt/a fl oz/a % v/v		PRE 4-6"W-1 4-6"W-1 4-6"W-1	A B B B	94 a	96 cd
3	BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 2.82 100 100	EC SL SL SL	1.42 1.41 1 5	lb ai/a lb ae/a % v/v % v/v	1.75 4 1 5	pt/a pt/a % v/v % v/v		PRE 4-6"W-1 4-6"W-1 4-6"W-1	A B B B	92 a	95 d
4	SEQUENCE PREFIX TOUCHDOWN TOTAL N-PAK AMS	5.25 5.29 4.17 100	SL EC SL SL	1.64 1.32 0.78 5	lb ae/a lb ai/a lb ae/a % v/v	2.5 2 24 5	pt/a pt/a fl oz/a % v/v		PRE 4-6"W-1 4-6"W-1 4-6"W-1	A B B B	35 c	96 bcd
5	SEQUENCE FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	5.25 2.82 100 100	SL SL SL SL	1.64 1.41 1 5	lb ae/a lb ae/a % v/v % v/v	2.5 4 1 5	pt/a pt/a % v/v % v/v		PRE 4-6"W-1 4-6"W-1 4-6"W-1	A B B B	40 c	97 a-d
6	VALOR XLT ROUNDUP POWERMAX COBRA COC (PRIME OIL) N-PAK AMS	40.3 4.5 2 100 100	WG SL EC SL SL	0.101 0.77 0.188 1 5	lb ai/a lb ae/a lb ai/a % v/v % v/v	4 22 12 1 5	oz/a fl oz/a fl oz/a % v/v % v/v		PRE 4-6"W-2 4-6"W-2 4-6"W-2 4-6"W-2	A C C C C	99 a	98 abc
7	AUTHORITY XL ROUNDUP POWERMAX COBRA COC (PRIME OIL) N-PAK AMS	70 4.5 2 100 100	WG SL EC SL SL	0.284 0.77 0.188 1 5	lb ai/a lb ae/a lb ai/a % v/v % v/v	6.5 22 12 1 5	oz/a fl oz/a fl oz/a % v/v % v/v		PRE 4-6"W-2 4-6"W-2 4-6"W-2 4-6"W-2	A C C C C	95 a	99 a
8	SONIC DURANGO DMA N-PAK AMS	70 4 100	WG SL SL	0.131 0.75 2.5	lb ai/a lb ae/a % v/v	3 24 2.5	oz/a fl oz/a % v/v		PRE 4-6"W-2 4-6"W-2	A C C	95 a	96 bcd
9	SONIC DURANGO DMA N-PAK AMS	70 4 100	WG SL SL	0.197 0.75 2.5	lb ai/a lb ae/a % v/v	4.5 24 2.5	oz/a fl oz/a % v/v		PRE 4-6"W-2 4-6"W-2	A C C	95 a	97 a-d
10	SONIC DURANGO DMA N-PAK AMS	70 4 100	WG SL SL	0.263 0.75 2.5	lb ai/a lb ae/a % v/v	6 24 2.5	oz/a fl oz/a % v/v		PRE 4-6"W-2 4-6"W-2	A C C	97 a	98 ab
11	NONTREATED										0 d	0 e
LSD (P=.05)										7.8	2.3	1.2
Standard Deviation										5.4	1.6	0.8
CV										7.3	1.84	0.93
Replicate F										3.420	6.881	1.742
Replicate Prob(F)										0.0298	0.0012	0.1797
Treatment F										156.567	1308.725	5126.151
Treatment Prob(F)										0.0001	0.0001	0.0001

PRE/POST Programs in Soybean - Syngenta, Dow.

Trial ID: 13-51E-M80 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Trial Comments

1. Protocol: Syngenta, Dow.
2. Ratings: CI at 14 DAP; CI/WC at 0, 14, and 28 DA-B.
3. Yield.
4. Following the PRE application the first rainfall event, beginning 7 days later, was 0.59 inch over 1 day.
Following the 4-6"W-1 application the first rainfall event, beginning 1 day later, was 0.13 inch over 1 day.
Following the 4-6"W-2 application the first significant rainfall event, beginning 6 days later, was 0.57 inch.
5. Ratings at 0 DA-B or 0 DA-C were on 8-1-13 or 8-6-13, respectively.
Ratings at 14 DA-B or 14 DA-C were on 8-15-13 or 8-20-13, respectively.
Ratings at 28 DA-B or 28 DA-C were on 8-29-13 or 9-3-13, respectively.
6. Harvested 11-9-13, (2) 30 inch rows by 24 ft.