

Efficacy and Selectivity of Statement Applied PRE and POST.

Trial ID: 14-51W-MN40 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Trial Status: F one-year/final Initiation Date: 5-11-14 Completion Date: 10-25-14	
Trial Location	
City: Belleville State/Prov.: Illinois IL Postal Code: 62221	Country: USA

Objectives:
Compare the activity of Statement to Prefix when applied either preemergence or postemergence.

Study Director: Ronald F. Krausz Organization: Belleville Research Center - Southern Illinois Univ Carbondale Address: 2036 Charles Lane City+State/Prov: Belleville, IL Postal Code: 62221 Country: USA	Contacts Title: Researcher/Farm Manager Phone No.: 618-566-4761 E-mail: rkrausz@siu.edu
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Crop Description	
Crop 1: GLXMA Glycine max Variety: AG3832 Description: RR2Y	Soybean BBCH Scale: BSOY
Planting Rate, Unit: 140000 S/A Depth, Unit: 1 IN Row Spacing, Unit: 30 IN	Planting Date: 5-11-14 Planting Method: SEEDED

Pest Description	
Pest 1 Type: W Code: AMBTR Ambrosia trifida L. Common Name: ragweed, giant	
Pest 2 Type: W Code: ABUTH Abutilon theophrasti Medik. Common Name: velvetleaf	
Pest 3 Type: W Code: AMATA Amaranthus rudis Sauer Common Name: waterhemp, common	
Pest 4 Type: W Code: IPOHE Ipomoea hederacea (L.) Jacq. Common Name: morningglory, ivyleaf	

Site and Design	
Treated Plot Width: 7.5 FT Treated Plot Length: 27 FT	Total Plot Width: 10 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	
No.	Previous Crop
1.	ZEAMD 2013

Maintenance	
No.	Maintenance Product Name
1.	N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A

Soil Description		
% OM: 2.8 pH: 6.6 CEC: 10	Texture: SIL silt loam Soil Name: Pierron	
Additional Measured Elements		
Element	Quantity	Unit
P1	49	lb/A
K	286	lb/A

Moisture and Weather Conditions	
Overall Moisture Conditions: 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.	4-1-14	3.19	IN	RAIN	rain	4	DAY			
2.	4-1-14					7	DAY	34	66	F
3.	4-7-14	0.3	IN	RAIN	rain	2	DAY			
4.	4-8-14					7	DAY	34	83	F
5.	4-12-14	0.66	IN	RAIN	rain	3	DAY			
6.	4-15-14					7	DAY	31	79	F
7.	4-21-14	0.17	IN	RAIN	rain	2	DAY			
8.	4-22-14					7	DAY	44	78	F
9.	4-24-14	2.24	IN	RAIN	rain	5	DAY			
10.	4-29-14	0.09	IN	RAIN	rain	2	DAY			
11.	4-29-14					7	DAY	41	87	F
12.	5-6-14					7	DAY	56	86	F
13.	5-8-14	0.13	IN	RAIN	rain	2	DAY			
14.	5-12-14	0.88	IN	RAIN	rain	4	DAY			
15.	5-13-14					7	DAY	37	76	F
16.	5-20-14					7	DAY	55	87	F
17.	5-21-14	0.06	IN	RAIN	rain	1	DAY			
18.	5-25-14	0.49	IN	RAIN	rain	2	DAY			
19.	5-27-14	0.08	IN	RAIN	rain	2	DAY			
20.	5-27-14					7	DAY	60	86	F
21.	5-31-14	0.14	IN	RAIN	rain	1	DAY			
22.	6-1-14	0.13	IN	RAIN	rain	1	DAY			
23.	6-3-14					7	DAY	59	90	F
24.	6-4-14	0.67	IN	RAIN	rain	1	DAY			
25.	6-7-14	0.6	IN	RAIN	rain	1	DAY			
26.	6-9-14	1.38	IN	RAIN	rain	2	DAY			
27.	6-10-14					7	DAY	51	90	F
28.	6-12-14	0.07	IN	RAIN	rain	1	DAY			
29.	6-15-14	0.02	IN	RAIN	rain	1	DAY			
30.	6-17-14					7	DAY	67	92	F
31.	6-20-14	2.09	IN	RAIN	rain	5	DAY			
32.	6-24-14					7	DAY	65	91	F
33.	6-27-14	0.11	IN	RAIN	rain	2	DAY			
34.	7-1-14	0.01	IN	RAIN	rain	1	DAY			
35.	7-1-14					7	DAY	55	90	F
36.	7-7-14	0.79	IN	RAIN	rain	2	DAY			
37.	7-8-14					7	DAY	59	89	F
38.	7-12-14	0.49	IN	RAIN	rain	3	DAY			
39.	7-15-14					7	DAY	54	85	F
40.	7-22-14					7	DAY	57	98	F
41.	7-25-14	0.02	IN	RAIN	rain	1	DAY			
42.	7-29-14					7	DAY	52	89	F
43.	8-1-14	0.04	IN	RAIN	rain	1	DAY			
44.	8-5-14	4.04	IN	RAIN	rain	4	DAY			
45.	8-5-14					7	DAY	66	88	F
46.	8-12-14					7	DAY	57	84	F
47.	8-15-14	1.21	IN	RAIN	rain	3	DAY			
48.	8-19-14					7	DAY	67	95	F
49.	8-20-14	0.11	IN	RAIN	rain	1	DAY			
50.	8-26-14					7	DAY	68	95	F
51.	8-27-14	1.56	IN	RAIN	rain	2	DAY			
52.	9-1-14	2.21	IN	RAIN	rain	2	DAY			
53.	9-2-14					7	DAY	54	93	F
54.	9-5-14	0.24	IN	RAIN	rain	1	DAY			
55.	9-9-14					7	DAY	45	85	F
56.	9-10-14	1.06	IN	RAIN	rain	1	DAY			
57.	9-16-14					7	DAY	46	86	F
58.	9-23-14					7	DAY	46	86	F
59.	9-30-14					7	DAY	37	87	F
60.	10-1-14	0.99	IN	RAIN	rain	3	DAY			
61.	10-6-14	0.31	IN	RAIN	rain	2	DAY			
62.	10-7-14					7	DAY	46	77	F
63.	10-9-14	1.44	IN	RAIN	rain	2	DAY			
64.	10-12-14	1.24	IN	RAIN	rain	3	DAY			
65.	10-14-14					7	DAY	37	73	F
66.	10-21-14					7	DAY	36	82	F
67.	10-28-14	0.26	IN	RAIN	rain	1	DAY			

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Application Description

	A	B
Application Date:	5-13-14	5-29-14
Appl. Start Time:	7:00	17:25
Appl. Stop Time:	7:30	18 00
Application Method:	Spray	Spray
Application Timing:	PRE	2"W
Application Placement:	BROSOI	BROFOL
Applied By:	RFK	MEJ
Air Temperature, Unit:	63 F	82 F
% Relative Humidity:	100	58
Wind Velocity, Unit:	4 MPH	3 MPH
Wind Direction:	W	S
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	67 F	71 F
Soil Moisture:	ABONOR	NORMAL
% Cloud Cover:	100	50
Next Moisture Occurred On:	5-13-14	5-31-14
Time to Next Moisture, Unit:	4 HR	2 DAY

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA	GLXMA
Stage Scale Used:	DESC	DESC
Stage Majority, Percent:	NA	V1
Stage Minimum, Percent:		V1
Stage Maximum, Percent:		V1
Height, Unit:		4 IN
Height Minimum, Maximum:		3 4

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	NA	8
Stage Minimum, Percent:		6
Stage Maximum, Percent:		8
Height, Unit:		2 IN
Height Minimum, Maximum:		1 2
Density, Unit:		0.1 FT2
Pest 2 Code, Type, Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:	NA	6
Stage Minimum, Percent:		5
Stage Maximum, Percent:		6
Height, Unit:		2 IN
Height Minimum, Maximum:		1 2
Density, Unit:		1 FT2
Pest 3 Code, Type, Scale:	AMATA W	AMATA W
Stage Majority, Percent:	NA	6
Stage Minimum, Percent:		5
Stage Maximum, Percent:		6
Height, Unit:		0.5 IN
Height Minimum, Maximum:		0.25 1
Density, Unit:		0.01 FT2
Pest 4 Code, Type, Scale:	IPOHE W	IPOHE W
Stage Majority, Percent:	NA	4
Stage Minimum, Percent:		2
Stage Maximum, Percent:		4
Height, Unit:		0.5 IN
Height Minimum, Maximum:		0.25 1
Density, Unit:		0.01 FT2

Application Equipment

	A	B
Appl. Equipment:	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI
Nozzle Type:	XR	XR
Nozzle Size:	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA

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Pest Code Crop Code Rating Date							GLXMA 10-25-14	GLXMA 10-25-14	GLXMA 10-25-14	GLXMA	GLXMA	GLXMA
Rating Type Rating Unit Rating Timing Trt-Eval Interval							Moisture Percent	Test wt lb/bu	Yield bu/A	Injury Percent 14 DA-A 14 DA-B	Injury Percent 28 DA-A 28 DA-B	Injury Percent 42 DA-A 42 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code		
1	STATEMENT	5.25 EC	1 31	lb ai/a	32 fl oz/a	PRE	A					
2	PREFIX	5.29 EC	1 32	lb ai/a	32 fl oz/a	PRE	A					
3	NONTREATED											
4	STATEMENT	5.25 EC	1 31	lb ai/a	32 fl oz/a	2"W	B					
	GLYFOS X-TRA	3 SL	0.75	lb ae/a	1 qt/a	2"W	B					
	N-PAK AMS	100 SL	2.5 %	v/v	2.5 % v/v	2"W	B					
5	RHYTHM	1.88 ME	0 375	lb ai/a	25.5 fl oz/a	2"W	B					
	GLYFOS X-TRA	3 SL	0.75	lb ae/a	1 qt/a	2"W	B					
	N-PAK AMS	100 SL	2.5 %	v/v	2.5 % v/v	2"W	B					
6	PREFIX	5.29 EC	1 32	lb ai/a	32 fl oz/a	2"W	B					
	GLYFOS X-TRA	3 SL	0.75	lb ae/a	1 qt/a	2"W	B					
	N-PAK AMS	100 SL	2.5 %	v/v	2.5 % v/v	2"W	B					
LSD (P=.05)							0.78	0.34	10.1	2.3	4.9	3.4
Standard Deviation							0.52	0.23	6.7	1.5	3.2	2.2
CV							3.6	0.4	15.46	18.92	158.11	149.07
Replicate F							1.275	1.553	1.239	1.455	1 000	1.000
Replicate Prob(F)							0.3187	0.2421	0.3304	0.2761	0.4262	0.4262
Treatment F							0.206	0.170	8.822	216.273	8 000	9.000
Treatment Prob(F)							0.9550	0.9696	0.0005	0.0001	0 0022	0.0013

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							GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
							Stun Percen 14 DA-A 14 DA-B	Stunt Percent 28 DA-A 28 DA-B	Stunt Percent 42 DA-A 42 DA-B	Chlorosis Percen 14 DA-A 14 DA-B	Chlorosis Percent 28 DA-A 28 DA-B	Chlorosis Percen 42 DA-A 42 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	STATEMENT	5.25 EC		1 31 lb ai/a		32 fl oz/a	PRE	A	0 c	0 b	0 b	0 a
2	PREFIX	5.29 EC		1 32 lb ai/a		32 fl oz/a	PRE	A	0 c	0 b	0 b	0 a
3	NONTREATED								0	0	0	0
4	STATEMENT GLYFOS X-TRA N-PAK AMS	5.25 EC 3 SL 100 SL		1 31 lb ai/a 0.75 lb ae/a 2.5 % v/v		32 fl oz/a 1 qt/a 2.5 % v/v	2"W 2"W 2"W	B B B	14 b	0 b	0 b	0 a
5	RHYTHM GLYFOS X-TRA N-PAK AMS	1.88 ME 3 SL 100 SL		0 375 lb ai/a 0.75 lb ae/a 2.5 % v/v		25.5 fl oz/a 1 qt/a 2.5 % v/v	2"W 2"W 2"W	B B B	1 c	0 b	0 b	0 a
6	PREFIX GLYFOS X-TRA N-PAK AMS	5.29 EC 3 SL 100 SL		1 32 lb ai/a 0.75 lb ae/a 2.5 % v/v		32 fl oz/a 1 qt/a 2.5 % v/v	2"W 2"W 2"W	B B B	25 a	10 a	8 a	0 a
LSD (P=.05)							2.3	4.9	3.4	0.0	0.0	0.0
Standard Deviation							1.5	3.2	2.2	0.0	0.0	0.0
CV							18.92	158.11	149.07	0.0	0.0	0.0
Replicate F							1.455	1.000	1.000	0.000	0.000	0.000
Replicate Prob(F)							0.2761	0.4262	0.4262	1.0000	1.0000	1.0000
Treatment F							216.273	8.000	9.000	0.000	0.000	0.000
Treatment Prob(F)							0.0001	0.0022	0.0013	1.0000	1.0000	1.0000

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							GLXMA	GLXMA	GLXMA	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	
							Necrosis Percen 14 DA-A 14 DA-B	Necrosis Percent 28 DA-A 28 DA-B	Necrosis Percen 42 DA-A 42 DA-B	Control Percent 14 DA-A 14 DA-B	Control Percent 21 DA-A 21 DA-B	Control Percen 28 DA-A 28 DA-B	Control Percen 35 DA-A 35 DA-B	Control Percent 49 DA-A 49 DA-B	
Trt	Treatment No. Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Unit Unit	Grow Stage	h Code	Appl				
1	STATEMENT	5.25	EC	1.31	lb ai/a	32	fl oz/a		PRE	A	0 a	0 a	0 a	94 b	94 a
2	PREFIX	5.29	EC	1.32	lb ai/a	32	fl oz/a		PRE	A	0 a	0 a	0 a	97 a	94 a
3	NONTREATED										0	0	0	0	0
4	STATEMENT GLYFOS X-TRA N-PAK AMS	5.25 3 SL 100 SL	EC	1.31 0.75 2.5 %	lb ai/a lb ae/a v/v	32 1 2.5 %	fl oz/a qt/a v/v		2"W 2"W 2"W	B B B	0 a	0 a	0 a	99 a	96 a
5	RHYTHM GLYFOS X-TRA N-PAK AMS	1.88 3 SL 100 SL	ME	0.375 0.75 2.5 %	lb ai/a lb ae/a v/v	25.5 1 2.5 %	fl oz/a qt/a v/v		2"W 2"W 2"W	B B B	0 a	0 a	0 a	99 a	98 a
6	PREFIX GLYFOS X-TRA N-PAK AMS	5.29 3 SL 100 SL	EC	1.32 0.75 2.5 %	lb ai/a lb ae/a v/v	32 1 2.5 %	fl oz/a qt/a v/v		2"W 2"W 2"W	B B B	0 a	0 a	0 a	99 a	99 a
LSD (P=.05)							0.0	0.0	0.0	3.3	3.6	3.7	4.6	4.5	
Standard Deviation							0.0	0.0	0.0	2.1	2.3	2.4	3.0	2.9	
CV							0.0	0.0	0.0	2.2	2.39	2.51	3.14	3.04	
Replicate F							0.000	0.000	0.000	1.290	1.494	4.114	1.867	2.863	
Replicate Prob(F)							1.0000	1.0000	1.0000	0.3226	0.2661	0.0319	0.1890	0.0811	
Treatment F							0.000	0.000	0.000	5.000	3.741	4.509	3.022	3.024	
Treatment Prob(F)							1.0000	1.0000	1.0000	0.0132	0.0336	0.0187	0.0613	0.0612	

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
							Control Percen 14 DA-A 14 DA-B	Control Percen 21 DA-A 21 DA-B	Control Percent 28 DA-A 28 DA-B	Control Percent 35 DA-A 35 DA-B	Control Percen 49 DA-A 49 DA-B
Trt	Treatment	Form	Form	Rate	Other	Other	Grow	h	Appl		
No.	Name	Conc	Type	Rate	Unit	Rate	Rate	Unit	Stage	Code	
1	STATEMENT	5.25	EC	1.31	lb ai/a	32	fl oz/a		PRE	A	
2	PREFIX	5.29	EC	1.32	lb ai/a	32	fl oz/a		PRE	A	
3	NONTREATED										
4	STATEMENT	5.25	EC	1.31	lb ai/a	32	fl oz/a		2"W	B	
	GLYFOS X-TRA	3	SL	0.75	lb ae/a	1	qt/a		2"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		2"W	B	
5	RHYTHM	1.88	ME	0.375	lb ai/a	25.5	fl oz/a		2"W	B	
	GLYFOS X-TRA	3	SL	0.75	lb ae/a	1	qt/a		2"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		2"W	B	
6	PREFIX	5.29	EC	1.32	lb ai/a	32	fl oz/a		2"W	B	
	GLYFOS X-TRA	3	SL	0.75	lb ae/a	1	qt/a		2"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		2"W	B	
LSD (P=.05)							33.7	31.1	18.3	18.5	18.7
Standard Deviation							21.9	20.2	11.9	12.0	12.2
CV							26.17	25.79	19.85	20.3	20.49
Replicate F							1.074	2.397	0.783	0.620	0.536
Replicate Prob(F)							0.3968	0.1191	0.5262	0.6154	0.6665
Treatment F							5.059	6.074	68.461	65.248	64.101
Treatment Prob(F)							0.0127	0.0066	0.0001	0.0001	0.0001

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Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code									
1	STATEMENT	5.25	EC	1.31 lb ai/a	32 fl oz/a		PRE	A	99 a	99 a	99 a	97 a	97 a	80 b	66 a	55 b	54 b
2	PREFIX	5.29	EC	1.32 lb ai/a	32 fl oz/a		PRE	A	99 a	99 a	99 a	99 a	99 a	88 ab	81 a	54 b	53 b
3	NONTREATED								0	0	0	0	0	0	0	0	0
4	STATEMENT GLYFOS X-TRA N-PAK AMS	5.25 3 100	EC SL SL	1.31 lb ai/a 0.75 lb ae/a 2.5 % v/v	32 fl oz/a 1 qt/a 2.5 % v/v		2"W 2"W 2"W	B B B	99 a	99 a	99 a	99 a	99 a	99 a	94 a	90 a	90 a
5	RHYTHM GLYFOS X-TRA N-PAK AMS	1.88 3 100	ME SL SL	0.375 lb ai/a 0.75 lb ae/a 2.5 % v/v	25.5 fl oz/a 1 qt/a 2.5 % v/v		2"W 2"W 2"W	B B B	99 a	99 a	99 a	99 a	99 a	99 a	96 a	94 a	93 a
6	PREFIX GLYFOS X-TRA N-PAK AMS	5.29 3 100	EC SL SL	1.32 lb ai/a 0.75 lb ae/a 2.5 % v/v	32 fl oz/a 1 qt/a 2.5 % v/v		2"W 2"W 2"W	B B B	99 a	99 a	99 a	99 a	99 a	99 a	98 a	96 a	95 a
LSD (P=.05)									0.0	0.0	0.0	3.1	3.1	14.5	29.7	33.1	32.6
Standard Deviation									0.0	0.0	0.0	2.0	2.0	9.4	19.3	21.5	21.2
CV									0.0	0.0	0.0	2.04	2.04	10.12	22.16	27.71	27.61
Replicate F									0.000	0.000	0.000	1.000	1.000	0.811	1.442	2.874	2.623
Replicate Prob(F)									1.0000	1.0000	1.0000	0.4262	0.4262	0.5118	0.2795	0.0804	0.0986
Treatment F									0.000	0.000	0.000	1.000	1.000	3.478	1.895	3.912	4.142
Treatment Prob(F)									1.0000	1.0000	1.0000	0.4449	0.4449	0.0417	0.1762	0.0294	0.0246

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Trial Comments

1. Protocol: Cheminova (HGLXMAFOMME1401; HGLXMAFOMME1402).
2. Ratings: CI as overall, chlorosis, necrosis and stunting, at 14, 28, and 42 DA-A;
CI as overall, chlorosis, necrosis and stunting, at 14, 28, and 42 DA-B
WC 21, 35, and 49 DA-A; WC 14, 21, and 35 DA-B
3. Yield.
4. Following the PRE application the first significant rainfall event was 0.49 inch the next day.
Following the 2"W application the first significant rainfall event beginning 2 days later was 0.27 inch over 2 days then 0.67 inch 6 days after application.
5. Ratings at 14 DA-A and 14 DA-B were on 5-27-14 and 6-12-14, respectively.
Ratings at 21 DA-A and 21 DA-B were on 6-3-14 and 6-19-14, respectively.
Ratings at 28 DA-A and 28 DA-B were on 6-10-14 and 6-26-14, respectively.
Ratings at 35 DA-A and 35 DA-B were on 6-17-14 and 7-3-14, respectively.
Ratings at 42 DA-A and 42 DA-B were on 6-24-14 and 7-10-14, respectively.
Ratings at 49 DA-A and 49 DA-B were on 7-1-14 and 7-17-14, respectively.
6. Harvested 10-25-14, (2) 30 inch rows by 24 ft.