

Control of Volunteer Roundup Ready Corn in Soybean with Glyphosate, Select, and Adjuvant Mixtures - Precision Labs.

Project Code: 06-HRC-WU12-SME90 Location: Horticulture Research Center

Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Carbondale IL 62901 USA
 Trial Status: Final Updated: 8-4-06

Objective:

Evaluate adjuvants from Precision Labs for control of Roundup Ready corn in Roundup Ready soybean with GlyStar Plus and Select.

Weed Code	Common Name	Scientific Name
1.	ZEAMX corn, volunteer	Zea mays L.
2.	AMATA waterhemp, common	Amaranthus rudis Sauer

Crop 1:	GLXMA soybean	Variety:	P94M80 RR
Planting Method:	Seeded	Planting Date:	6-5-06
Rate:	75 lb/A	Depth:	1.0 IN
Row Spacing:	30 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	30 FT	Reps:	3
Tillage Type:	Reduced-Till	Study Design:	Randomized complete block		
Previous Crop, Year:	GLXMA, 2005				

Texture:	Silt loam	% OM:	2.8	pH:	6.7	CEC:	10
		Fert. Level:	P1: 92 LB/A, K: 334 LB/A				

APPLICATION DESCRIPTION

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Application Date: 6-30-06
 Time of Day: 10:00
 Application Method: Spray
 Application Timing: 12-18"CN
 Applic. Placement: BROFOL
 Air Temp., Unit: 86 F
 % Relative Humidity: 38
 Wind Velocity, Unit: 3 MPH
 Dew Presence (Y/N): N
 Soil Temp., Unit: 86 F
 Soil Moisture: BELNOR
 % Cloud Cover: 100

CROP STAGE AT EACH APPLICATION

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Crop 1 Code, Stage: GLXMA V3-V4
 Height, Unit: 8-10 IN

WEED STAGE AT EACH APPLICATION

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Weed 1 Code: ZEAMX
 Stage(leaves): 5-7
 Height(inches): 14-19
 Density: Medium

Weed 2 Code: AMATA
 Stage(leaves): 7-35
 Height(inches): 5-15
 Density: High

APPLICATION EQUIPMENT

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Appl. Equipment: CO2 sprayer
 Operating Pressure: 40 PSI
 Nozzle Type: Flat fan
 Nozzle Size: 8002
 Boom Length, Unit: 7.5 FT
 Spray Volume, Unit: 15 GPA

NOTES:

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Weed Code		Crop Code		GLXMA		ZEAMX		AMATA		AMATA					
Rating Data Type		Injury		Control		Control		Control		Control					
Rating Unit		Percent		Percent		Percent		Percent		Percent					
Rating Date		7-14-06		7-28-06		7-14-06		7-28-06		7-28-06					
Trt-Eval Interval		14 DA-A		28 DA-A		14 DA-A		28 DA-A		28 DA-A					
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
1	GLY STAR PLUS	3	SL	0.5	lb ae/a	21.3	fl oz/a	12-18"CN	A	0	0	65	92	55	84
1	SELECT	2	EC	0.0625	lb ai/a	4	fl oz/a	12-18"CN	A						
1	PL 402	100	LIQ	0.375	% v/v	3	pt/100 gal	12-18"CN	A						
1	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	12-18"CN	A						
2	GLY STAR PLUS	3	SL	0.5	lb ae/a	21.3	fl oz/a	12-18"CN	A	0	0	60	77	53	80
2	SELECT	2	EC	0.0625	lb ai/a	4	fl oz/a	12-18"CN	A						
2	PL 712	100	LIQ	0.5	% v/v	4	pt/100 gal	12-18"CN	A						
3	GLY STAR PLUS	3	SL	0.5	lb ae/a	21.3	fl oz/a	12-18"CN	A	0	0	52	50	53	80
3	SELECT	2	EC	0.0625	lb ai/a	4	fl oz/a	12-18"CN	A						
3	PX 330	100	DRY	0.48	% w/w	4	lb/100 gal	12-18"CN	A						
4	GLY STAR PLUS	3	SL	0.5	lb ae/a	21.3	fl oz/a	12-18"CN	A	0	0	60	82	53	82
4	SELECT	2	EC	0.0625	lb ai/a	4	fl oz/a	12-18"CN	A						
4	PX 100	100	LIQ	0.5	% v/v	4	pt/100 gal	12-18"CN	A						
5	GLY STAR PLUS	3	SL	0.5	lb ae/a	21.3	fl oz/a	12-18"CN	A	0	0	75	93	65	88
5	SELECT	2	EC	0.0625	lb ai/a	4	fl oz/a	12-18"CN	A						
5	PX 200	100	LIQ	0.5	% v/v	4	pt/100 gal	12-18"CN	A						
6	GLY STAR PLUS	3	SL	0.5	lb ae/a	21.3	fl oz/a	12-18"CN	A	0	0	75	96	62	82
6	SELECT	2	EC	0.0625	lb ai/a	4	fl oz/a	12-18"CN	A						
6	PX 300	100	LIQ	0.5	% v/v	4	pt/100 gal	12-18"CN	A						
7	GLY STAR PLUS	3	SL	0.5	lb ae/a	21.3	fl oz/a	12-18"CN	A	0	0	67	94	57	87
7	SELECT	2	EC	0.0625	lb ai/a	4	fl oz/a	12-18"CN	A						
7	PX 400	100	LIQ	0.5	% v/v	4	pt/100 gal	12-18"CN	A						
8	GLY STAR PLUS	3	SL	0.5	lb ae/a	21.3	fl oz/a	12-18"CN	A	0	0	67	91	60	85
8	SELECT	2	EC	0.0625	lb ai/a	4	fl oz/a	12-18"CN	A						
8	PX 500	100	LIQ	0.5	% v/v	4	pt/100 gal	12-18"CN	A						
9	GLY STAR PLUS	3	SL	0.5	lb ae/a	21.3	fl oz/a	12-18"CN	A	0	0	68	85	72	85
9	SELECT	2	EC	0.0625	lb ai/a	4	fl oz/a	12-18"CN	A						
9	PX 600	100	LIQ	0.5	% v/v	4	pt/100 gal	12-18"CN	A						
10	GLY STAR PLUS	3	SL	0.5	lb ae/a	21.3	fl oz/a	12-18"CN	A	0	0	65	78	62	85
10	SELECT	2	EC	0.0625	lb ai/a	4	fl oz/a	12-18"CN	A						
10	PL-NIS	100	LIQ	0.125	% v/v	0.125	% v/v	12-18"CN	A						
10	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	12-18"CN	A						
11	GLY STAR PLUS	3	SL	0.5	lb ae/a	21.3	fl oz/a	12-18"CN	A	0	0	58	82	58	87
11	SELECT	2	EC	0.0625	lb ai/a	4	fl oz/a	12-18"CN	A						
11	PL 331	100	LIQ	2.5	% v/v	2.5	% v/v	12-18"CN	A						
12	NONTREATED									0	0	0	0	0	0
LSD (P=.05)										0.0	0.0	6.3	5.9	6.6	5.0
Replicate F										0.000	0.000	0.946	1.174	0.000	1.620
Replicate Prob(F)										1.0000	1.0000	0.4036	0.3277	1.0000	0.2207
Treatment F										0.000	0.000	84.538	184.526	63.550	208.787
Treatment Prob(F)										1.0000	1.0000	0.0001	0.0001	0.0001	0.0001

Trial Comments

1. Protocol: Precision Labs.
2. Ratings: CI/WC 14 + 28 DAT.
3. Roundup Ready corn planted in 30 inch rows perpendicular to soybean rows.
4. DA-A = Days after 12-18"CN application.
5. Not harvested.