

Adjuvant Evaluation for Glyphosate plus Firstrate - Precision Labs.

Project Code: 06-Alstat-E50 Location: Murphysboro, IL
 Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Murphysboro IL 62966 USA
Trial Status: Final **Updated:** 11-9-06

Objective:

Evaluate adjuvants for use with glyphosate plus Firstrate in Roundup Ready soybean.

Weed Code Common Name Scientific Name
 1. ERICA horseweed Conyza canadensis (L.) Crong.

Crop 1: GLXMA soybean **Variety:** FS4646
Planting Method: Seeded **Planting Date:** 6-5-06
Rate: 75 lb/A **Depth:** 1.0 IN
Row Spacing: 30 IN **Seed Bed:** No-Till

Plot Width, Unit: 10 FT **Plot Length, Unit:** 30 FT **Reps:** 3
Tillage Type: No-Till **Study Design:** Randomized complete block
Previous Crop, Year: GLXMA, 2005

APPLICATION DESCRIPTION

A
Application Date: 6-19-06
Time of Day: 20:30
Application Method: Spray
Application Timing: POST
Applic. Placement: BROFOL
Air Temp., Unit: 80 F
% Relative Humidity: 82
Wind Velocity, Unit: 1 MPH
Dew Presence (Y/N): N
Soil Moisture: BELNOR
% Cloud Cover: 0

CROP STAGE AT EACH APPLICATION

A
Crop 1 Code, Stage: GLXMA V1
Height, Unit: 2-3 IN

WEED STAGE AT EACH APPLICATION

A
Weed 1 Code: ERICA
Stage(leaves): 7-50
Height(inches): 3-20
Density: High

APPLICATION EQUIPMENT

A
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	GLXMA	GLXMA	ERICA	ERICA
Crop Code	Injury	Injury	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent
Rating Unit	7-3-06	7-17-06	7-3-06	7-17-06
Rating Date	14 DA-A	28 DA-A	14 DA-A	28 DA-A
Trt-Eval Interval				

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
1	NONTREATED									0	0	0	0
2	GLY STAR PLUS	3	SL	1.12	lb ae/a	48	fl oz/a	POST	A	0	0	35	52
2	PL 331	100	LIQ	2.5	% v/v	2.5	% v/v	POST	A				
3	GLY STAR PLUS	3	SL	1.12	lb ae/a	48	fl oz/a	POST	A	0	0	42	55
3	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	A				
3	PL 331	100	LIQ	2.5	% v/v	2.5	% v/v	POST	A				
4	GLY STAR PLUS	3	SL	1.12	lb ae/a	48	fl oz/a	POST	A	0	0	48	58
4	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	A				
4	PL 402	100	LIQ	0.375	% v/v	0.375	% v/v	POST	A				
4	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	POST	A				
5	GLY STAR PLUS	3	SL	1.12	lb ae/a	48	fl oz/a	POST	A	0	0	47	52
5	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	A				
5	PL 712	100	LIQ	0.5	% v/v	0.5	% v/v	POST	A				
6	GLY STAR PLUS	3	SL	1.12	lb ae/a	48	fl oz/a	POST	A	0	0	43	63
6	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	A				
6	PX 330	100	DRY	0.48	% w/w	4	lb/100 gal	POST	A				
7	GLY STAR PLUS	3	SL	1.12	lb ae/a	48	fl oz/a	POST	A	0	0	52	62
7	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	A				
7	PX 100	100	LIQ	0.5	% v/v	0.5	% v/v	POST	A				
8	GLY STAR PLUS	3	SL	1.12	lb ae/a	48	fl oz/a	POST	A	0	0	55	62
8	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	A				
8	PX 200	100	LIQ	0.5	% v/v	0.5	% v/v	POST	A				
9	GLY STAR PLUS	3	SL	1.12	lb ae/a	48	fl oz/a	POST	A	0	0	55	53
9	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	A				
9	PX 300	100	LIQ	0.5	% v/v	0.5	% v/v	POST	A				
10	GLY STAR PLUS	3	SL	1.12	lb ae/a	48	fl oz/a	POST	A	0	0	53	70
10	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	A				
10	PX 400	100	LIQ	0.5	% v/v	0.5	% v/v	POST	A				
11	GLY STAR PLUS	3	SL	1.12	lb ae/a	48	fl oz/a	POST	A	0	0	48	62
11	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	A				
11	PX 500	100	LIQ	0.5	% v/v	0.5	% v/v	POST	A				
12	GLY STAR PLUS	3	SL	1.12	lb ae/a	48	fl oz/a	POST	A	0	0	60	63
12	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	A				
12	PX 600	100	LIQ	0.5	% v/v	0.5	% v/v	POST	A				
13	GLY STAR PLUS	3	SL	1.12	lb ae/a	48	fl oz/a	POST	A	0	0	60	68
13	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	A				
13	PX 900HPH	100	LIQ	1.0	% v/v	1	% v/v	POST	A				
14	GLY STAR PLUS	3	SL	1.12	lb ae/a	48	fl oz/a	POST	A	0	0	58	62
14	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	A				
14	PL-NIS	100	LIQ	0.125	% v/v	0.125	% v/v	POST	A				
14	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	POST	A				
15	GLY STAR PLUS	3	SL	1.12	lb ae/a	48	fl oz/a	POST	A	0	0	47	65
15	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	A				
15	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	POST	A				
15	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	POST	A				
LSD (P=.05)										0.0	0.0	14.5	16.9
Replicate F										0.000	0.000	0.030	0.169
Replicate Prob(F)										1.0000	1.0000	0.9708	0.8451
Treatment F										0.000	0.000	8.747	8.107
Treatment Prob(F)										1.0000	1.0000	0.0001	0.0001

Trial Comments

1. Protocol: Precision Labs.
2. Ratings: CI/WC 14 + 28 DAT.
3. Blanket application of Glystar Plus at 48 fl oz/A + AMS at 17 lb/100 gal applied 7 days before planting.
4. DA-A = Days after POST application.
5. Not harvested.