

GlyStar Original Adjuvant Evaluation in Soybean - United Suppliers.

Trial ID: 09-50W-N50

Location: Belleville Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Belleville IL 62221 USA
 Trial Status: FINAL Initiation Date: 06-28-09

Objectives: Evaluate efficacy of United Suppliers adjuvants for use
 with GlyStar Original in soybean.

Crop 1: GLXMA Soybean Variety: AG 4404 Description: RR/STS
 Planting Method: SEEDED Planting Date: 06-28-09
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: GGGAN grasses, annual
 Pest 2 Type: W Code: AMBTR Ambrosia trifida L. ragweed, giant
 Pest 3 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
 Pest 4 Type: W Code: IPOHE Ipomoea hederacea (L.) Jacq. morningglory, ivyleaf
 Pest 5 Type: W Code: ABUTH Abutilon theophrasti Medicus velvetleaf

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 27 FT Tillage Type: REDUCED-TILL
 Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year
 1. ZEAMD 2008

Field Prep./Maintenance: N 0 LB/A, P205 0 LB/A, K20 150 LB/A

% OM: 2.2 Texture: SILT LOAM
 pH: 6.3 Soil Name: PIERRON
 CEC: 11 Fert. Level: P1: 67 LB/A, K: 376 LB/A

Application Description A

Application Date: 07-22-09
 Time of Day: 12:00
 Application Method: Spray
 Application Timing: 4-6"W
 Application Placement: BROFOL
 Applied By: NVH
 Air Temperature, Unit: 72 F
 % Relative Humidity: 92
 Wind Velocity, Unit: 5 MPH
 Wind Direction: W
 Dew Presence (Y/N): N
 Soil Moisture: NORMAL
 % Cloud Cover: 85

07-22-09
 Crop stage at application: V3
 Height Min, Max (inch): 4 6

Pest Stage At Each Application

Application Date: 07-22-09
 Weed Code: GGGAN
 Stage Majority (leaves): 4
 Stage Min, Max: 2 7
 Height Majority: 5 IN
 Height Min, Max: 2 7
 Density, Unit: 1.5 FT2
 Weed Code: AMBTR
 Stage Majority (leaves): 4
 Stage Min, Max: 2 6
 Height Majority: 5 IN
 Height Min, Max: 3 8
 Density, Unit: 0.3 FT2
 Weed Code: AMATA
 Stage Majority (leaves): 5
 Stage Min, Max: 3 8
 Height Majority: 4.5 IN
 Height Min, Max: 2 6
 Density, Unit: 0.75 FT2
 Weed Code: IPOHE
 Stage Majority (leaves): 4
 Stage Min, Max: 1 7
 Height Majority: 3 IN
 Height Min, Max: 1 4
 Density, Unit: 0.9 FT2
 Weed Code: ABUTH
 Stage Majority (leaves): 2
 Stage Min, Max: 1 4
 Height Majority: 3.5 IN
 Height Min, Max: 1 4
 Density, Unit: .001 FT2

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Application Equipment

Appl. Equipment:	CO2 sprayer
Operating Pressure:	30 PSI
Nozzle Type:	Flat fan
Nozzle Size:	XR 8002
Boom Length, Unit:	7.5 FT
Spray Volume, Unit:	15 GPA

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Pest Code										GLXMA		GLXMA		GGGAN		GGGAN	
Crop Code										08-05-09		08-19-09		08-05-09		08-19-09	
Rating Date										Injury		Injury		Control		Control	
Rating Data Type										Percent		Percent		Percent		Percent	
Rating Unit																	
Rating Timing																	
Trt-Eval Interval										14 DA-A		28 DA-A		14 DA-A		28 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code								
1	GLY STAR ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	A	0 a	0 a	99 a	99 a	98 a	98 a	98 a	98 a
1	CHEMSURF 80	100	SL	0.5	% v/v	0.5	% v/v	4-6"W	A								
2	GLY STAR ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	A	0 a	0 a	99 a	99 a	97 ab	97 a	98 a	97 a
2	CHEMSURF 90	100	SL	0.5	% v/v	0.5	% v/v	4-6"W	A								
3	GLY STAR ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	A	0 a	0 a	99 a	99 a	96 ab	98 a	99 a	97 a
3	USEX109	100	SL	0.125	% v/v	0.125	% v/v	4-6"W	A								
4	GLY STAR ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	A	0 a	0 a	99 a	99 a	95 b	95 a	97 a	96 a
4	USEX109	100	SL	0.25	% v/v	0.25	% v/v	4-6"W	A								
5	GLY STAR ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	A	0 a	0 a	99 a	99 a	97 ab	97 a	98 a	97 a
5	USEX209	100	SL	0.125	% v/v	0.125	% v/v	4-6"W	A								
6	GLY STAR ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	A	0 a	0 a	99 a	99 a	98 ab	97 a	98 a	97 a
6	USEX209	100	SL	0.25	% v/v	0.25	% v/v	4-6"W	A								
7	GLY STAR ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	A	0 a	0 a	99 a	99 a	97 ab	98 a	98 a	96 a
8	NONTREATED									0 a	0 a	0 b	0 b	0 c	0 b	0 b	0 b
LSD (P=.05)										0.0	0.0	0.0	0.0	3.5	3.3	1.9	2.4
Replicate F										0.000	0.000	0.000	0.000	2.842	3.589	1.657	1.602
Replicate Prob(F)										1.0000	1.0000	1.0000	1.0000	0.0920	0.0552	0.2260	0.2363
Treatment F										0.000	0.000	0.000	0.000	897.259	1014.499	2920.768	1856.702
Treatment Prob(F)										1.0000	1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

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Pest Code		IPOHE	IPOHE	ABUTH	ABUTH
Crop Code					
Rating Date		08-05-09	08-19-09	08-05-09	08-19-09
Rating Data Type		Control	Control	Control	Control
Rating Unit		Percent	Percent	Percent	Percent
Rating Timing					
Trt-Eval Interval		14 DA-A	28 DA-A	14 DA-A	28 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	GLY STAR ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	A	60	a	64	a
1	CHEMSURF 80	100	SL	0.5	% v/v	0.5	% v/v	4-6"W	A			83	ab
2	GLY STAR ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	A	62	a	63	a
2	CHEMSURF 90	100	SL	0.5	% v/v	0.5	% v/v	4-6"W	A			82	ab
3	GLY STAR ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	A	60	a	63	a
3	USEX109	100	SL	0.125	% v/v	0.125	% v/v	4-6"W	A			75	bc
4	GLY STAR ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	A	52	b	60	a
4	USEX109	100	SL	0.25	% v/v	0.25	% v/v	4-6"W	A			60	d
5	GLY STAR ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	A	60	a	63	a
5	USEX209	100	SL	0.125	% v/v	0.125	% v/v	4-6"W	A			73	c
6	GLY STAR ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	A	60	a	60	a
6	USEX209	100	SL	0.25	% v/v	0.25	% v/v	4-6"W	A			84	a
7	GLY STAR ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	A	58	a	62	a
8	NONTREATED									0	c	0	b
												0	e
													0
	LSD (P=.05)									4.3		7.1	
												8.2	
													8.0
	Replicate F									1.195		2.779	
	Replicate Prob(F)									0.3317		0.0963	
	Treatment F									217.146		89.584	
	Treatment Prob(F)									0.0001		0.0001	
												108.116	
												114.702	
												0.0001	
												0.0001	

Means followed by same letter do not significantly differ (P=.05, LSD)

Trial Comments

1. Protocol: United Suppliers.
2. Ratings: CI/WC at 14 and 28 DAT.
3. GGGAN = Annual grasses including SETFA (giant foxtail) and PANDI (fall panicum).