

Valor in Roundup Ready Soybean.

Project Code: 03-2A-W40 Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 10-27-03

Objective:

Demonstrate the advantages of Valor preemergence in a Roundup Ready soybean system.

Weed Code	Common Name	Scientific Name
1. SETFA	foxtail, giant	Setaria faberi Herrm.
2. AMBEL	ragweed, common	Ambrosia artemisiifolia L.
3. POLPY	smartweed, Pennsylvania	Polygonum pennsylvanicum L.

Crop 1:	GLXMA soybean	Variety:	Asgrow 4403 RR
Planting Method:	Seeded	Planting Date:	6-20-03
Rate:	75 lb/A	Depth:	1.0 IN
Row Spacing:	30 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	28 FT	Reps:	4
Tillage Type:	Reduced-Till	Study Design:	Randomized complete block		
Previous Crop, Year:	ZEAMX, 2002				

Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 150 LB/A

Soil Name:	Weir	% OM:	1.5	pH:	6.4	CEC:	10
Texture:	Silt loam	Fert. Level:	P1: 81 LB/A, K: 274 LB/A				

APPLICATION DESCRIPTION

	A	B
Application Date:	6-9-03	7-14-03
Time of Day:	12:30	18:30
Application Method:	Spray	Spray
Application Timing:	PRE	4-14"W
Applic. Placement:	BROSOI	BROFOL
Air Temp., Unit:	80 F	90 F
% Relative Humidity:	70	42
Wind Velocity, Unit:	0-5 MPH	0 MPH
Soil Moisture:	NORMAL	NORMAL

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	GLXMA NA	GLXMA V3
Height, Unit:	NA NA	6 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code:		SETFA
Stage(leaves):		3-10
Height(inches):		6-12
Density:		High
Weed 2 Code:		AMBEL
Stage(leaves):		2-8
Height(inches):		2-8
Density:		Low
Weed 3 Code:		POLPY
Stage(leaves):		10-25
Height(inches):		6-14
Density:		Low

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan
Nozzle Size:	8003	8002
Boom Length, Unit:	7.5 FT	7.5 FT
Spray Volume, Unit:	20 GPA	20 GPA

NOTES:

Harvested Oct-22-03, (2) 30 inch rows by 25 ft.

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Weed Code	GLXMA	GLXMA	GLXMA	SETFA	SETFA	AMBEL	AMBEL	POLPY	POLPY
Crop Code	Yield	Injury	Injury	Control	Control	Control	Control	Control	Control
Rating Data Type	bu/A	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	10-20-03	7-7-03	8-4-03	7-14-03	8-4-03	7-14-03	8-4-03	7-14-03	8-4-03
Rating Date	28 DA-A	56 DA-A	56 DA-A	0 DA-B	56 DA-A	0 DA-B	56 DA-A	0 DA-B	56 DA-A
Trt-Eval Interval									

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Yield	GLXMA Injury	GLXMA Injury	SETFA Control	SETFA Control	AMBEL Control	AMBEL Control	POLPY Control	POLPY Control	
1	NONTREATED									8	0	0	0	0	0	0	0	0	0
2	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	4-14"W	B	39	0	0	0	98	0	99	0	99	
2	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	4-14"W	B										
3	VALOR	51	WG	0.031	LB A/A	1	OZ/A	PRE	A	41	0	0	23	99	20	99	0	99	
3	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	4-14"W	B										
3	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	4-14"W	B										
4	VALOR	51	WG	0.047	LB A/A	1.5	OZ/A	PRE	A	44	0	0	31	99	35	99	0	99	
4	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	4-14"W	B										
4	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	4-14"W	B										
5	VALOR	51	WG	0.063	LB A/A	2	OZ/A	PRE	A	45	0	0	41	97	45	99	0	99	
5	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	4-14"W	B										
5	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	4-14"W	B										
6	VALOR	51	WG	0.078	LB A/A	2.5	OZ/A	PRE	A	45	0	0	51	99	63	99	0	99	
6	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	4-14"W	B										
6	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	4-14"W	B										
LSD (P=.05)										5.9	0.0	0.0	4.9	1.8	7.5	0.9	0.0	0.0	
Replicate F										2.078	0.000	0.000	5.258	1.091	1.404	0.625	0.000	0.000	
Replicate Prob(F)										0.1462	1.0000	1.0000	0.0112	0.3832	0.2803	0.6098	1.0000	1.0000	
Treatment F										54.682	0.000	0.000	166.935	4388.203	102.101	18303.375	0.000	0.000	
Treatment Prob(F)										0.0001	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001	1.0000	1.0000	

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Trial Comments

1. Protocol: Valent.
2. Ratings: CI 28 and 56 DAT; WC prior to POST and 56 DAP.
3. Yield.
4. DA-A = days after PRE application. 0 DA-B = 0 days after 4-14"W application (prior to post). Ratings at 56 DA-A were 45 days after crop was replanted, and 21 days after the 4-14"W application.
5. Crop was originally planted on 6-9-03 and replanted 6-20-03.