

Gangster - Roundup Ready Programs.

Project Code: 03-21S-ME20 Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 10-28-03

Objective:

Evaluate Valor plus Firstrate applied at reduced rates in Roundup Ready soybeans.

Weed Code	Common Name	Scientific Name
1. SETFA	foxtail, giant	Setaria faberi Herrm.
2. XANST	cocklebur, common	Xanthium strumarium L.
3. ABUTH	velvetleaf	Abutilon theophrasti Medicus
4. AMATA	waterhemp, common	Amaranthus rudis Sauer
5. IPOHE	morningglory, ivyleaf	Ipomoea hederacea (L.) Jacq.

Crop 1: GLXMA soybean Variety: Asgrow 4403 RR
 Planting Method: Seeded Planting Date: 6-5-03
 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: ZEAMX, 2002

Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K2O 150 LB/A

Soil Name: Ebbert % OM: 1.4 pH: 5.7 CEC: 14
 Texture: Silt loam Fert. Level: P1: 97 LB/A, K: 291 LB/A

APPLICATION DESCRIPTION

	A	B
Application Date:	6-6-03	7-14-03
Time of Day:	17:00	17:30
Application Method:	Spray	Spray
Application Timing:	PRE	12-14"W
Applic. Placement:	BROSOI	BROFOL
Air Temp., Unit:	68 F	90 F
% Relative Humidity:	96	42
Wind Velocity, Unit:	0 MPH	0 MPH
Soil Moisture:	ABONOR	NORMAL

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	GLXMA NA	GLXMA V5
Height, Unit:	NA NA	8 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code:		SETFA
Stage(leaves):		5-10
Height(inches):		5-10
Density:		High
Weed 2 Code:		XANST
Stage(leaves):		6-12
Height(inches):		6-14
Density:		Medium
Weed 5 Code:		IPOHE
Stage(leaves):		3-7
Height(inches):		6-8
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-16-03, (2) 30 inch rows by 27 ft.

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								SETFA	SETFA	SETFA	SETFA							
								GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA					
								Yield	Injury	Injury	Injury	Injury	Injury					
								bu/A	Percent	Percent	Percent	Percent	Percent					
								10-16-03	6-20-03	7-4-03	7-28-03	8-11-03	9-8-03					
								14 DA-A	28 DA-A	14 DA-B	28 DA-B	56 DA-B	28 DA-A					
								14 DA-B	28 DA-B	56 DA-B	28 DA-A	14 DA-B	28 DA-B					
								56 DA-B	28 DA-B	56 DA-B	28 DA-A	14 DA-B	28 DA-B					
Trt	Treatment	Form	Form	Rate	Prod	Prod	Grow	Appl										
No.	Name	Conc	Type	Rate	Unit	Rate	Unit	Stg	Code									
1	NONTREATED									11	0	0	0	0	0	0	0	0
2	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	32	FL OZ/A	12-14"W	B	38			0	10	10		99	99
2	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	12-14"W	B									
3	VALOR	51	WG	0.031	LB A/A	0.97	OZ/A	PRE	A	54	10	3	0	0	0	83	99	99
3	FIRSTRATE	84	WG	0.01	LB A/A	0.19	OZ/A	PRE	A									
3	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	32	FL OZ/A	12-14"W	B									
3	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	12-14"W	B									
4	VALOR	51	WG	0.047	LB A/A	1.47	OZ/A	PRE	A	51	15	4	0	0	0	87	99	99
4	FIRSTRATE	84	WG	0.016	LB A/A	0.305	OZ/A	PRE	A									
4	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	32	FL OZ/A	12-14"W	B									
4	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	12-14"W	B									
LSD (P=.05)								6.5	0.0	3.0	0.0	0.0	0.0	6.5	0.0	0.6	0.7	
Replicate F								0.870	0.000	1.000	0.000	0.000	0.000	3.000	0.000	1.000	4.200	
Replicate Prob(F)								0.4657	1.0000	0.4444	1.0000	1.0000	1.0000	0.1600	1.0000	0.4219	0.0723	
Treatment F								110.615	0.000	8.313	0.000	0.000	0.000	868.000	0.000	88012.000	52451.801	
Treatment Prob(F)								0.0001	1.0000	0.0376	1.0000	1.0000	1.0000	0.0001	1.0000	0.0001	0.0001	

Weed Code	XANST	XANST	XANST	XANST	ABUTH	ABUTH	ABUTH	ABUTH	AMATA	AMATA	AMATA	AMATA
Crop Code												
Rating Data Type	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	7-4-03	7-28-03	8-11-03	9-8-03	7-4-03	7-28-03	8-11-03	9-8-03	7-4-03	7-28-03	8-11-03	9-8-03
Trt-Eval Interval	28 DA-A	14 DA-B	28 DA-B	56 DA-B	28 DA-A	14 DA-B	28 DA-B	56 DA-B	28 DA-A	14 DA-B	28 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	XANST	XANST	XANST	XANST	ABUTH	ABUTH	ABUTH	ABUTH	AMATA	AMATA	AMATA	AMATA	
1	NONTREATED									0	0	0	0	0	0	0	0	0	0	0	0	0
2	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	32	FL OZ/A	12-14"	W B		99	95	92		92	90	88		99	99	99	99
2	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	12-14"	W B													
3	VALOR	51	WG	0.031	LB A/A	0.97	OZ/A	PRE	A	92	99	97	98	99	99	99	99	99	99	99	99	99
3	FIRSTRATE	84	WG	0.01	LB A/A	0.19	OZ/A	PRE	A													
3	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	32	FL OZ/A	12-14"	W B													
3	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	12-14"	W B													
4	VALOR	51	WG	0.047	LB A/A	1.47	OZ/A	PRE	A	92	99	99	98	99	96	99	99	98	99	99	99	99
4	FIRSTRATE	84	WG	0.016	LB A/A	0.305	OZ/A	PRE	A													
4	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	32	FL OZ/A	12-14"	W B													
4	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	12-14"	W B													
LSD (P=.05)										3.7	0.0	5.1	10.5	0.0	5.7	9.5	15.7	3.0	0.0	0.0	0.0	
Replicate F										3.500	0.000	0.814	0.776	0.000	1.124	1.000	1.000	1.000	0.000	0.000	0.000	
Replicate Prob(F)										0.1322	1.0000	0.4868	0.5014	1.0000	0.3850	0.4219	0.4219	0.4444	1.0000	1.0000	1.0000	
Treatment F										3174.125	0.000	1075.254	250.225	0.000	853.897	307.930	111.692	5439.813	0.000	0.000	0.000	
Treatment Prob(F)										0.0001	1.0000	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001	0.0001	1.0000	1.0000	1.0000	

Weed Code		IPOHE	IPOHE	IPOHE	IPOHE
Crop Code					
Rating Data Type		Control	Control	Control	Control
Rating Unit		Percent	Percent	Percent	Percent
Rating Date		7-4-03	7-28-03	8-11-03	9-8-03
Trt-Eval Interval		28 DA-A	14 DA-B	28 DA-B	56 DA-B

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	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	32	FL OZ/A	12-14"	W B		91	73	83
2	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	12-14"	W B				
3	VALOR	51	WG	0.031	LB A/A	0.97	OZ/A	PRE	A	95	90	72	91
3	FIRSTRATE	84	WG	0.01	LB A/A	0.19	OZ/A	PRE	A				
3	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	32	FL OZ/A	12-14"	W B				
3	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	12-14"	W B				
4	VALOR	51	WG	0.047	LB A/A	1.47	OZ/A	PRE	A	96	91	75	92
4	FIRSTRATE	84	WG	0.016	LB A/A	0.305	OZ/A	PRE	A				
4	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	32	FL OZ/A	12-14"	W B				
4	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	12-14"	W B				
LSD (P=.05)										3.0	2.0	5.5	7.0
Replicate F										1.000	3.000	2.455	1.503
Replicate Prob(F)										0.4444	0.1250	0.1664	0.2956
Treatment F										5148.813	6166.000	528.727	489.272
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

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Trial Comments

1. Protocol: Valent.
2. Ratings: CI 14 DAT; CI and WC 28 and 56 DAT.
3. Yield.
4. DA-A = days after PRE application. DA-B = days after 12-14"W application.
5. 14 DA-B was also 52 DA-A.