

Residual Soybean Herbicides Prior to Glyphosate Applications.

01-2A-MW100

OBJECTIVE: Evaluate the benefit of preemergence herbicides in a Roundup Ready soybean system.

SUMMARY: Soybean injury was 5% or less from any treatment in this study. Prior to postemergence (POST) herbicide applications, giant foxtail control was at least 90% from Domain, Prowl, Valor and Valor plus Classic. At 56 days after the POST treatments, giant foxtail control was at least 89% from all treatments. Yellow nutsedge control was greatest with treatments that included Authority and the sequential application of Roundup Ultra Max. All preemergence treatments except Authority alone, Domain, and Sencor controlled at least 93% of common ragweed. Giant ragweed, smartweed, and common cocklebur control was excellent from all treatments. Sequential treatments of either a preemergence herbicide followed by Roundup or sequential applications of Roundup provided good control of common waterhemp.

Soybean yield tended to be higher in plots where a residual herbicide was applied prior to Roundup Ultra Max.

HERBICIDES

AUTHORITY 75 WG
 CANOPY XL 56.3 WG
 CLASSIC 25 WG
 DOMAIN 60 WG
 EXTREME 2.17 SL
 FIRSTRATE 84 WG
 GAUNTLET (CO-PACK)
 OUTLOOK 6 EC
 PROWL 3.3 EC
 RAPTOR 1 AS
 ROUNDUP ULTRA MAX 3.7 SL
 SENCOR 75 WG
 VALOR 50 WG

WEEDS

cocklebur, common
 foxtail, giant
 morningglory, species
 nutsedge, yellow
 ragweed, common
 ragweed, giant
 smartweed, Pennsylvania
 velvetleaf
 waterhemp, common

CROP

soybean

Bryan Young

PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

Residual Soybean Herbicides Prior to Glyphosate Applications.

Project Code: 01-2A-MW100 Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
Trial Status: Final Initiation Date: 4-30-01

Objective:

Evaluate the benefit of preemergence herbicides in a Roundup Ready soybean system.

Weed Code	Common Name	Scientific Name
1. SETFA	foxtail, giant	Setaria faberi Herrm.
2. CYPES	nutsedge, yellow	Cyperus esculentus L.
3. AMBEL	ragweed, common	Ambrosia artemisiifolia L.
4. AMBTR	ragweed, giant	Ambrosia trifida L.
5. POLPY	smartweed, Pennsylvania	Polygonum pennsylvanicum L.
6. XANST	cocklebur, common	Xanthium strumarium L.
7. AMATA	waterhemp, common	Amaranthus rudis Sauer
8. IPOSS	morningglory, species	Ipomoea sp.
9. ABUTH	velvetleaf	Abutilon theophrasti Medicus

Crop 1:	GLXMA soybean	Variety:	B-T 371CR
Planting Method:	Seeded	Planting Date:	5-11-01
Rate:	75 lb/A	Depth:	1.0 IN
Row Spacing:	30 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	28 FT	Reps:	3
Tillage Type:	Reduced-Till	Study Design:	Randomized complete block		
Previous Crop, Year:	ZEAMX, 2000				
Field Prep./Maintenance:	N 0 LB/A, P205 0 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	C	D
Application Date:	5-11-01	6-18-01	6-14-01	6-27-01
Time of Day:	17:00	20:00	8:00	9:00
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	PRE	3-6"W	V2-3	V5-6
Applic. Placement:	BROS0I	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	82 F	90 F	80 F	75 F
% Relative Humidity:	44	40	80	80
Wind Velocity, Unit:	7 MPH	3-5 MPH	7 MPH	0-1 MPH
Soil Moisture:	BELNOR	BELNOR	NORMAL	NORMAL

CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	GLXMA NA	GLXMA V3-V4	GLXMA V3	GLXMA V5-V6
Height, Unit:	NA NA	6-8 IN	5-6 IN	5-8 IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code:	SETFA	SETFA	SETFA	SETFA
Stage(leaves):		3-4	4-8	4-10
Height(inches):		3-5	3-8	2-10
Density:		Low	High	High
Weed 2 Code:	CYPES	CYPES	CYPES	CYPES
Stage(leaves):		4-6	4-6	6-11
Height(inches):		3-5	4-6	4-8
Density:		Low	High	Low

Weed 3 Code:	AMBEL	AMBEL	AMBEL	AMBEL
Stage(leaves):		5-7	4-6	4-10
Height(inches):		3-5	2-4	6-16
Density:		Low	High	Medium
Weed 4 Code:	AMBTR	AMBTR	AMBTR	AMBTR
Stage(leaves):			2-6	10-20
Height(inches):			2-4	5-15
Density:			Low	Low
Weed 5 Code:	POLPY	POLPY	POLPY	POLPY
Stage(leaves):			3-5	8-12
Height(inches):			1-3	10-16
Density:			High	Low
Weed 6 Code:	XANST	XANST	XANST	XANST
Stage(leaves):			4-6	10-20
Height(inches):			2-4	5-15
Density:			Low	Low
Weed 7 Code:	AMATA	AMATA	AMATA	AMATA
Stage(leaves):			4-6	6-10
Height(inches):			2-3	5-6
Density:			High	Low
Weed 8 Code:	IPOSS	IPOSS	IPOSS	IPOSS
Weed 9 Code:	ABUTH	ABUTH	ABUTH	ABUTH
Stage(leaves):			2-3	4-8
Height(inches):			1-2	2-6
Density:			Low	Low

APPLICATION EQUIPMENT

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

NOTES: HARVESTED 10-27-01, 2 ROWS X 25 FT.

Residual Soybean Herbicides Prior to Glyphosate Applications.

Project Code: 01-2A-MW100 Location: Belleville Research Center

Weed Code															SETFA	SETFA	SETFA	CYPES	CYPES	CYPES	AMBEL	AMBEL	AMBEL											
Crop Code															GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA										
Rating Data Type															Yield	Injury	Injury	Injury	Control	Control	Control	Control	Control	Control										
Rating Unit															bu/A	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent										
Rating Date															10-27-01	5-25-01	6-18-01	7-16-01	6-18-01	7-16-01	8-13-01	6-18-01	7-16-01	8-13-01										
Trt-Eval Interval															14 DAP	0 DA-B	28 DA-B	0 DA-B	28 DA-B	56 DA-B	0 DA-B	28 DA-B	56 DA-B	0 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									4	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
2	CANOPY XL	56.3	WG			2.5	OZ/A	PRE	A	50	0	0	0	77	91	89	99	95	92	93	99	99												
	->CLASSIC	25	WG	0.0147	LB A/A			PRE	A																									
	->AUTHORITY	75	WG	0.073	LB A/A			PRE	A																									
	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.2	PT/A	3-6"	W B																									
	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"	W B																									
3	CANOPY XL	56.3	WG			4.5	OZ/A	PRE	A	48	2	0	0	78	90	90	99	97	95	98	99	99												
	->CLASSIC	25	WG	0.0264	LB A/A			PRE	A																									
	->AUTHORITY	75	WG	0.132	LB A/A			PRE	A																									
	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.2	PT/A	3-6"	W B																									
	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"	W B																									
4	GAUNTLET (CO-PACK)					3.94	OZ/A	PRE	A	48	0	0	0	78	91	90	96	87	88	97	99	99												
	->FIRSTRATE	84	WG	0.02125	LB A/A	0.405	OZ/A	PRE	A																									
	->AUTHORITY	75	WG	0.1656	LB A/A	3.53	OZ/A	PRE	A																									
	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.2	PT/A	3-6"	W B																									
	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"	W B																									
5	CLASSIC	25	WG	0.0313	LB A/A	2	OZ/A	PRE	A	47	4	3	0	92	91	90	99	95	89	98	99	99												
	VALOR	50	WG	0.0625	LB A/A	2	OZ/A	PRE	A																									
	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.2	PT/A	3-6"	W B																									
	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"	W B																									
6	VALOR	50	WG	0.0625	LB A/A	2	OZ/A	PRE	A	51	3	0	0	91	93	90	53	78	88	92	99	98												
	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.2	PT/A	3-6"	W B																									
	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"	W B																									
7	VALOR	50	WG	0.094	LB A/A	3	OZ/A	PRE	A	50	5	0	0	92	94	90	60	82	85	98	99	95												
	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.2	PT/A	3-6"	W B																									
	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"	W B																									
8	AUTHORITY	75	WG	0.1875	LB A/A	4	OZ/A	PRE	A	50	0	0	0	84	93	94	92	95	94	55	95	89												
	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.2	PT/A	3-6"	W B																									
	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"	W B																									
9	DOMAIN	60	WG	0.375	LB A/A	10	OZ/A	PRE	A	51	0	0	0	87	94	90	77	83	87	67	98	95												
	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.2	PT/A	3-6"	W B																									
	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"	W B																									
10	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	3-6"	W B	41			0	97	90		93	88		98	93													
	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"	W B																									
11	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	V2-3	C	40			0	87	85		92	85		99	94													
	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	V2-3	C																									
12	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	V5-6	D	41			1	98	95		96	92		98	95													
	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	V5-6	D																									

Weed Code									SETFA	SETFA	SETFA	CYPES	CYPES	CYPES	AMBEL	AMBEL	AMBEL					
Crop Code									Control	Control	Control	Control	Control	Control	Control	Control	Control					
Rating Data Type									Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent					
Rating Unit									bu/A	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent					
Rating Date									10-27-01	5-25-01	6-18-01	7-16-01	6-18-01	7-16-01	8-13-01	6-18-01	7-16-01					
Trt-Eval Interval									14 DAP	0 DA-B	28 DA-B	0 DA-B	28 DA-B	56 DA-B	0 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													
13	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	V2-3	C	46			1	99	96		98	96		99	99	
13	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	V2-3	C													
13	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.2	PT/A	V5-6	D													
13	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	V5-6	D													
14	EXTREME	2.17	SL	0.813	LB A/A	3	PT/A	3-6"W	B	50			0	95	95		90	90		97	95	
14	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	%V/V	3-6"W	B													
14	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	B													
15	EXTREME	2.17	SL	0.813	LB A/A	3	PT/A	V2-3	C	48			0	96	95		94	92		99	99	
15	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	%V/V	V2-3	C													
15	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	V2-3	C													
16	PROWL	3.3	EC	1.24	LB A/A	3	PT/A	PRE	A	38		2	0	92	96	93	90	91	88	90	98	98
16	EXTREME	2.17	SL	0.813	LB A/A	3	PT/A	V2-3	C													
16	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	%V/V	V2-3	C													
16	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	V2-3	C													
17	OUTLOOK	6	EC	0.375	LB A/A	8	OZ/A	V2-3	C	51			0	95	91		87	83		98	95	
17	EXTREME	2.17	SL	0.813	LB A/A	3	PT/A	V2-3	C													
17	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	%V/V	V2-3	C													
17	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	V2-3	C													
18	OUTLOOK	6	EC	0.469	LB A/A	10	OZ/A	V2-3	C	43			0	96	95		91	90		98	97	
18	EXTREME	2.17	SL	0.813	LB A/A	3	PT/A	V2-3	C													
18	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	%V/V	V2-3	C													
18	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	V2-3	C													
19	SENCOR	75	WG	0.375	LB A/A	8	OZ/A	PRE	A	47		0	0	47	94	93	85	93	93	77	97	96
19	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.2	PT/A	3-6"W	B													
19	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	B													
20	DOMAIN	60	WG	0.375	LB A/A	10	OZ/A	PRE	A	41		1	0	90	93	90	87	82	75	80	80	70
20	RAPTOR	1	AS	0.0313	LB A/A	4	OZ/A	V2-3	C													
20	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	%V/V	V2-3	C													
20	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	V2-3	C													
LSD (P=.05)										9.8	2.2	1.6	0.6	6.4	4.4	1.8	14.8	8.0	6.1	7.2	2.7	2.6
Replicate F										4.846	1.242	0.292	0.487	6.992	0.304	3.463	0.087	0.419	10.443	1.077	0.674	1.028
Replicate Prob(F)										0.0135	0.3153	0.7496	0.6181	0.0045	0.7393	0.0415	0.9166	0.6610	0.0002	0.3579	0.5155	0.3675
Treatment F										9.099	7.743	4.000	0.923	155.237	190.193	1028.906	32.510	56.443	92.860	134.082	545.919	582.572
Treatment Prob(F)										0.0001	0.0003	0.0027	0.5613	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Residual Soybean Herbicides Prior to Glyphosate Applications.

Project Code: 01-2A-MW100 Location: Belleville Research Center

Weed Code	IPOSS	IPOSS	IPOSS	ABUTH	ABUTH	ABUTH
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	6-18-01	7-16-01	8-13-01	6-18-01	7-16-01	8-13-01
Trt-Eval Interval	0 DA-B	28 DA-B	56 DA-B	0 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	IPOSS Control	IPOSS Control	IPOSS Control	ABUTH Control	ABUTH Control	ABUTH Control
1	NONTREATED									0	0	0	0	0	0
2	CANOPY XL	56.3	WG			2.5	OZ/A	PRE	A	99	99	93	98	92	94
2	->CLASSIC	25	WG	0.0147	LB A/A			PRE	A						
2	->AUTHORITY	75	WG	0.073	LB A/A			PRE	A						
2	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.2	PT/A	3-6"W	B						
2	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	B						
3	CANOPY XL	56.3	WG			4.5	OZ/A	PRE	A	99	99	99	99	99	95
3	->CLASSIC	25	WG	0.0264	LB A/A			PRE	A						
3	->AUTHORITY	75	WG	0.132	LB A/A			PRE	A						
3	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.2	PT/A	3-6"W	B						
3	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	B						
4	GAUNTLET (CO-PACK)					3.94	OZ/A	PRE	A	99	99	99	99	95	99
4	->FIRSTRATE	84	WG	0.02125	LB A/A	0.405	OZ/A	PRE	A						
4	->AUTHORITY	75	WG	0.1656	LB A/A	3.53	OZ/A	PRE	A						
4	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.2	PT/A	3-6"W	B						
4	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	B						
5	CLASSIC	25	WG	0.0313	LB A/A	2	OZ/A	PRE	A	99	99	99	99	96	99
5	VALOR	50	WG	0.0625	LB A/A	2	OZ/A	PRE	A						
5	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.2	PT/A	3-6"W	B						
5	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	B						
6	VALOR	50	WG	0.0625	LB A/A	2	OZ/A	PRE	A	99	96	90	99	92	95
6	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.2	PT/A	3-6"W	B						
6	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	B						
7	VALOR	50	WG	0.094	LB A/A	3	OZ/A	PRE	A	97	96	93	99	96	95
7	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.2	PT/A	3-6"W	B						
7	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	B						
8	AUTHORITY	75	WG	0.1875	LB A/A	4	OZ/A	PRE	A	99	99	96	99	94	98
8	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.2	PT/A	3-6"W	B						
8	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	B						
9	DOMAIN	60	WG	0.375	LB A/A	10	OZ/A	PRE	A	99	98	95	91	88	85
9	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.2	PT/A	3-6"W	B						
9	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	B						
10	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	3-6"W	B		95	85		78	67
10	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	B						
11	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	V2-3	C		98	85		92	90
11	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	V2-3	C						
12	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	V5-6	D		98	91		93	82
12	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	V5-6	D						
13	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	V2-3	C		98	95		97	96
13	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	V2-3	C						
13	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.2	PT/A	V5-6	D						
13	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	V5-6	D						

Weed Code	IPOSS	IPOSS	IPOSS	ABUTH	ABUTH	ABUTH
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	6-18-01	7-16-01	8-13-01	6-18-01	7-16-01	8-13-01
Tri-Eval Interval	0 DA-B	28 DA-B	56 DA-B	0 DA-B	28 DA-B	56 DA-B

Tri No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
14	EXTREME	2.17	SL	0.813	LB A/A	3	PT/A	3-6"	W B		96	89		83	77
14	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	%V/V	3-6"	W B						
14	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"	W B						
15	EXTREME	2.17	SL	0.813	LB A/A	3	PT/A	V2-3	C		95	85		93	82
15	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	%V/V	V2-3	C						
15	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	V2-3	C						
16	PROWL	3.3	EC	1.24	LB A/A	3	PT/A	PRE	A	99	93	80	99	97	87
16	EXTREME	2.17	SL	0.813	LB A/A	3	PT/A	V2-3	C						
16	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	%V/V	V2-3	C						
16	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	V2-3	C						
17	OUTLOOK	6	EC	0.375	LB A/A	8	OZ/A	V2-3	C		88	73		91	85
17	EXTREME	2.17	SL	0.813	LB A/A	3	PT/A	V2-3	C						
17	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	%V/V	V2-3	C						
17	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	V2-3	C						
18	OUTLOOK	6	EC	0.469	LB A/A	10	OZ/A	V2-3	C		98	90		88	86
18	EXTREME	2.17	SL	0.813	LB A/A	3	PT/A	V2-3	C						
18	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	%V/V	V2-3	C						
18	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	V2-3	C						
19	SENCOR	75	WG	0.375	LB A/A	8	OZ/A	PRE	A	99	93	87	99	93	92
19	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.2	PT/A	3-6"	W B						
19	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"	W B						
20	DOMAIN	60	WG	0.375	LB A/A	10	OZ/A	PRE	A	99	95	77	99	96	93
20	RAPTOR	1	AS	0.0313	LB A/A	4	OZ/A	V2-3	C						
20	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	%V/V	V2-3	C						
20	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	V2-3	C						
LSD (P=.05)										2.0	6.5	6.1	6.8	5.8	10.0
Replicate F										1.000	7.992	0.304	1.365	11.248	8.409
Replicate Prob(F)										0.3840	0.0013	0.7396	0.2763	0.0001	0.0009
Treatment F										1793.469	90.546	100.341	151.897	108.364	38.235
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Residual Soybean Herbicides Prior to Glyphosate Applications.

Project Code: 01-2A-MW100 Location: Belleville Research Center

Trial Comments

1. Protocol: DuPont (USA-01-070 trts 1-10 and 14); BASF (trts 11-13 and 15-18); Bayer (trts 9, 19 and 20).
2. DAP = days after planting. DA-B = days after 3-6"W application. 0 DA-B = prior to 3-6"W application. 0 DA-B was also 38 days after the PRE application.
28 and 56 DA-B was also 32 and 60 days after the V2-3 application, respectively. For treatments 16 and 20, ratings on 6-18-01 were also 4 days after the V2-3 application.