

Impact of Glyphosate Failure on Soybean.

Project Code: 05-21S-ME60 Location: Belleville Research Center
 Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 11-14-05

Objective:

Determine the impact of a failed glyphosate application and limited weed removal on soybean yield.

Weed Code	Common Name	Scientific Name
1.	SETFA foxtail, giant	Setaria faberi Herrm.
2.	ABUTH velvetleaf	Abutilon theophrasti Medicus
3.	XANST cocklebur, common	Xanthium strumarium L.
4.	AMBEL ragweed, common	Ambrosia artemisiifolia L.
5.	CYPES nutsedge, yellow	Cyperus esculentus L.
6.	IPOHE morningglory, ivyleaf	Ipomoea hederacea (L.) Jacq.

Crop 1: GLXMA soybean Variety: Asgrow 4403 RR
 Planting Method: Seeded Planting Date: 5-17-05
 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, 2004

Field Prep./Maintenance: N 0 LB/A, P2O5 0 LB/A, K2O 100 LB/A

Soil Name: Ebbert % OM: 2.7 pH: 6.2 CEC: 14
 Texture: Silt loam Fert. Level: P1: 115 LB/A, K: 500 LB/A

APPLICATION DESCRIPTION

	A	B	C	D	E
Application Date:	05-18-05	06-17-05	06-24-05	07-01-05	07-08-05
Time of Day:	9:30	11:45	9:30	16:00	9:30
Application Method:	Spray	Spray	Spray	Spray	Spray
Application Timing:	PRE	4-8"W	10-14"W	2WA4-8"W	2WA10-14"W
Applic. Placement:	BROSIOI	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	62 F	76 F	81 F	84 F	78 F
% Relative Humidity:	60	50	70	38	60
Wind Velocity, Unit:	7 MPH	3 MPH	3 MPH	3-4 MPH	0 MPH
Soil Moisture:	NORMAL	NORMAL	BELNOR	BELNOR	ABONOR

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E
Crop 1 Code, Stage:	GLXMA NA	GLXMA V3	GLXMA V4	GLXMA V5	GLXMA R1
Height, Unit:	NA NA	6 IN	8-9 IN	10-11 IN	10-12 IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E
Weed 1 Code:	SETFA	SETFA	SETFA	SETFA	SETFA
Stage (leaves):	5-8	5-8	5-8	6-8	9-10
Height (inches):	5-9	7-8	7-8	7-9	10-12
Density:	Medium	Medium	Medium	Medium	Medium
Weed 2 Code:	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Stage (leaves):	5-7	5-7	5-6	4-5	4-5
Height (inches):	4-6	8-12	10-12	12-14	12-14
Density:	Medium	High	High	High	High
Weed 3 Code:	XANST	XANST	XANST	XANST	XANST
Stage (leaves):	5-7	5-7	7-10	7-10	7-10
Height (inches):	4-7	12-14	8-10	8-10	8-10
Density:	Medium	Medium	Low	Low	Low
Weed 4 Code:	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL
Stage (leaves):	10-14	8-14	10-14	6-8	6-8
Height (inches):	5-7	8-10	10-12	10-12	10-12
Density:	Low	Low	Low	Low	Low
Weed 5 Code:	CYPES	CYPES	CYPES	CYPES	CYPES
Stage (leaves):	6-8	6-8	7-8	8-10	8-10
Height (inches):	4-6	6-7	5-7	9-12	9-12
Density:	Low	Low	Low	Low	Low
Weed 6 Code:	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE
Stage (leaves):	7-9	2-15	10-15	6-8	6-8
Height (inches):	4-9	1-9	3-5	4-6	4-6
Density:	Low	Medium	High	Medium	Medium

APPLICATION EQUIPMENT

	A	B	C	D	E
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI	40 PSI	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan
Nozzle Size:	TT 110015	TT 110015	TT 110015	TT 110015	TT 110015
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	10 GPA	10 GPA	10 GPA	10 GPA	10 GPA

NOTES:

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									GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	CYPES	CYPES	
									Yield	Injury	Injury	Injury	Injury	Control	Control	
									bu/A	Percent	Percent	Percent	Percent	Percent	Percent	
									10-05-05	06-29-05	07-08-05	14 DALP	28 DALP	06-29-05	07-08-05	
										-2 DA-D	0 DA-E			-2 DA-D	0 DA-E	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code							
1	NONTREATED									28	0	0	0	0	0	
2	DUAL II MAGNUM	7.64	EC	1.27	lb ai/a	1.33	pt/a	PRE	A	65	0	0	0	0	99	
2	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	PRE	A							
2	WEED FREE															
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	B	61	0	0	0	0	91	
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	B	64	0	0	0	0	87	
4	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W	D						95	
5	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	4-8"W	B	62	0	0	0	0	72	
5	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W	D						91	
6	ROUNDUP W-MAX	4.5	SL	0.193	lb ae/a	5.5	fl oz/a	4-8"W	B	60	0	0	0	0	65	
6	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W	D						91	
7	ROUNDUP W-MAX	4.5	SL	0.097	lb ae/a	2.75	fl oz/a	4-8"W	B	56	0	0	0	0	15	
7	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W	D						40	
8	ROUNDUP W-MAX	4.5	SL	0.048	lb ae/a	1.37	fl oz/a	4-8"W	B	60	0	0	0	0	10	
8	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W	D						32	
9	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W	D	57	0	0	0	0	5	
10	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-14"W	C	61	0	0	0	0	12	
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"W	C	61	0	0	0	0	15	
12	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-14"W	C	60	0	0	0	0	15	
12	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W	E						37	
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"W	C	61	0	0	0	0	40	
13	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W	E						27	
14	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	10-14"W	C	58	0	0	0	0	13	
14	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W	E						28	
15	ROUNDUP W-MAX	4.5	SL	0.193	lb ae/a	5.5	fl oz/a	10-14"W	C	61	0	0	0	0	43	
15	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W	E						20	
16	ROUNDUP W-MAX	4.5	SL	0.097	lb ae/a	2.75	fl oz/a	10-14"W	C	61	0	0	0	0	7	
16	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W	E						5	
17	ROUNDUP W-MAX	4.5	SL	0.048	lb ae/a	1.37	fl oz/a	10-14"W	C	62	0	0	0	0	8	
17	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W	E						5	
18	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W	E	61	0	0	0	0	2	
LSD (P=.05)										10.3	0.0	0.0	0.0	0.0	33.2	6.9
Replicate F										0.162	0.000	0.000	0.000	0.000	0.741	0.136
Replicate Prob(F)										0.8509	1.0000	1.0000	1.0000	1.0000	0.4841	0.8730
Treatment F										4.907	0.000	0.000	0.000	0.000	8.835	217.033
Treatment Prob(F)										0.0001	1.0000	1.0000	1.0000	1.0000	0.0001	0.0001

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									SETFA	SETFA	SETFA	SETFA	ABUTH	ABUTH	ABUTH	ABUTH
									Control	Control	Control	Control	Control	Control	Control	Control
									Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
									06-29-05	07-08-05	14 DALP	28 DALP	06-29-05	07-08-05	14 DALP	28 DALP
									-2 DA-D	0 DA-E			-2 DA-D	0 DA-E		
Trt	Treatment	Form	Form	Rate	Prod	Prod	Grow	Appl								
No.	Name	Conc	Type	Unit	Rate	Unit	Stg	Code								
1	NONTREATED								0	0	0	0	0	0	0	0
2	DUAL II MAGNUM	7.64	EC	1.27	lb ai/a	1.33	pt/a	PRE	99	99	99	99	99	99	99	99
2	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	PRE								
2	WEED FREE															
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	99	99	99	99	91	91	93	96
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	99	99	99	99	91	95	99	99
4	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W								
5	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	4-8"W	99	99	99	99	70	96	99	99
5	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W								
6	ROUNDUP W-MAX	4.5	SL	0.193	lb ae/a	5.5	fl oz/a	4-8"W	99	99	99	99	37	87	99	99
6	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W								
7	ROUNDUP W-MAX	4.5	SL	0.097	lb ae/a	2.75	fl oz/a	4-8"W	62	99	99	99	13	73	96	96
7	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W								
8	ROUNDUP W-MAX	4.5	SL	0.048	lb ae/a	1.37	fl oz/a	4-8"W	17	78	99	99	10	67	98	99
8	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W								
9	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W	8	75	99	99	7	70	99	99
10	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-14"W	30	99	99	99	17	80	96	95
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"W	27	98	99	99	18	68	63	73
12	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-14"W	32	99	99	99	18	80	99	99
12	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W								
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"W	27	99	99	99	17	40	99	99
13	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W								
14	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	10-14"W	22	99	99	99	15	22	99	94
14	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W								
15	ROUNDUP W-MAX	4.5	SL	0.193	lb ae/a	5.5	fl oz/a	10-14"W	23	93	99	99	7	15	99	99
15	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W								
16	ROUNDUP W-MAX	4.5	SL	0.097	lb ae/a	2.75	fl oz/a	10-14"W	12	15	99	99	7	5	99	98
16	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W								
17	ROUNDUP W-MAX	4.5	SL	0.048	lb ae/a	1.37	fl oz/a	10-14"W	22	20	99	99	7	7	99	99
17	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W								
18	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W	3	0	99	99	2	0	99	98
LSD (P=.05)									12.4	4.8	0.0	0.0	12.7	7.5	9.7	4.8
Replicate F									1.796	3.640	0.000	0.000	0.600	9.248	1.200	2.869
Replicate Prob(F)									0.1814	0.0370	1.0000	1.0000	0.5543	0.0006	0.3136	0.0706
Treatment F									77.727	529.887	0.000	0.000	58.699	206.798	51.579	203.442
Treatment Prob(F)									0.0001	0.0001	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001

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									XANST	XANST	XANST	XANST	AMBEL	AMBEL	AMBEL	AMBEL
									Control	Control	Control	Control	Control	Control	Control	Control
									Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
									06-29-05	07-08-05	14 DALP	28 DALP	06-29-05	07-08-05	14 DALP	28 DALP
									-2 DA-D	0 DA-E			-2 DA-D	0 DA-E		
Trt	Treatment	Form	Form	Rate	Prod	Prod	Grow	Appl								
No.	Name	Conc	Type	Unit	Rate	Unit	Stg	Code								
1	NONTREATED								0	0	0	0	0	0	0	0
2	DUAL II MAGNUM	7.64	EC	1.27	lb ai/a	1.33	pt/a	PRE	99	99	99	99	99	99	99	99
2	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	PRE								
2	WEED FREE															
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	98	96	96	97	99	99	99	99
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	99	99	99	99	96	99	99	99
4	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W								
5	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	4-8"W	99	99	99	99	96	99	99	99
5	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W								
6	ROUNDUP W-MAX	4.5	SL	0.193	lb ae/a	5.5	fl oz/a	4-8"W	99	99	99	98	93	99	99	99
6	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W								
7	ROUNDUP W-MAX	4.5	SL	0.097	lb ae/a	2.75	fl oz/a	4-8"W	55	99	99	95	55	99	99	99
7	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W								
8	ROUNDUP W-MAX	4.5	SL	0.048	lb ae/a	1.37	fl oz/a	4-8"W	27	96	99	96	15	87	99	99
8	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W								
9	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W	12	98	99	98	8	92	99	99
10	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-14"W	37	99	93	96	20	99	99	99
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"W	38	99	99	96	15	97	99	99
12	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-14"W	37	99	93	92	18	99	99	99
12	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W								
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"W	40	99	99	99	45	99	99	99
13	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W								
14	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	10-14"W	38	99	99	99	23	23	99	99
14	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W								
15	ROUNDUP W-MAX	4.5	SL	0.193	lb ae/a	5.5	fl oz/a	10-14"W	25	99	99	97	13	15	99	99
15	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W								
16	ROUNDUP W-MAX	4.5	SL	0.097	lb ae/a	2.75	fl oz/a	10-14"W	17	98	99	99	10	5	99	99
16	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W								
17	ROUNDUP W-MAX	4.5	SL	0.048	lb ae/a	1.37	fl oz/a	10-14"W	23	74	99	98	12	7	99	99
17	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W								
18	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W	7	0	99	98	2	0	99	98
LSD (P=.05)									11.0	17.0	3.6	5.4	27.0	10.4	0.0	0.5
Replicate F									3.015	0.786	0.251	1.543	0.056	0.191	0.000	1.000
Replicate Prob(F)									0.0623	0.4639	0.7792	0.2284	0.9460	0.8272	1.0000	0.3784
Treatment F									86.210	29.214	342.711	152.168	16.977	145.172	0.000	22035.782
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	1.0000	0.0001

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									IPOHE	IPOHE	
									Control	Control	
									Percent	Percent	
									14 DALP	28 DALP	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code		
1	NONTREATED									0	0
2	DUAL II MAGNUM	7.64	EC	1.27	lb ai/a	1.33	pt/a	PRE	A	100	99
2	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	PRE	A		
2	WEED FREE										
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	B	53	93
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	B	85	95
4	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W	D		
5	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	4-8"W	B	83	95
5	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W	D		
6	ROUNDUP W-MAX	4.5	SL	0.193	lb ae/a	5.5	fl oz/a	4-8"W	B	78	92
6	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W	D		
7	ROUNDUP W-MAX	4.5	SL	0.097	lb ae/a	2.75	fl oz/a	4-8"W	B	75	82
7	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W	D		
8	ROUNDUP W-MAX	4.5	SL	0.048	lb ae/a	1.37	fl oz/a	4-8"W	B	50	83
8	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W	D		
9	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA4-8"W	D	50	86
10	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-14"W	C	58	83
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"W	C	33	82
12	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-14"W	C	92	95
12	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W	E		
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"W	C	89	96
13	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W	E		
14	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	10-14"W	C	94	95
14	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W	E		
15	ROUNDUP W-MAX	4.5	SL	0.193	lb ae/a	5.5	fl oz/a	10-14"W	C	88	93
15	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W	E		
16	ROUNDUP W-MAX	4.5	SL	0.097	lb ae/a	2.75	fl oz/a	10-14"W	C	87	92
16	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W	E		
17	ROUNDUP W-MAX	4.5	SL	0.048	lb ae/a	1.37	fl oz/a	10-14"W	C	88	93
17	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W	E		
18	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA10-14"W	E	87	95
LSD (P=.05)									23.1	8.6	
Replicate F									0.950	0.476	
Replicate Prob(F)									0.3968	0.6253	
Treatment F									10.582	54.743	
Treatment Prob(F)									0.0001	0.0001	

Trial Comments

1. Protocol: SIU-BGY.
2. Ratings: CI and WC prior to 2WA4-8"W and 2WA10-14"W and 14 and 28 DA 2WA4-8"W and 2WA10-14"W.
3. Yield.
4. Weed-free plots can be sprayed with glyphosate as needed.
5. Ratings on 6-29-05 at -2 DA-D are prior to the 2WA4-8"W application.
Ratings on 7-8-05 at 0 DA-E are prior to the 2WA10-14"W application.
DALP = Days after last postemergence application.
Ratings at 14 days after 2WA4-8"W and 2WA10-14"W applications were on 7-15-05 and 7-22-05, respectively.
Ratings at 28 days after 2WA4-8"W and 2WA10-14"W applications were on 7-29-05 and 8-5-05, respectively.
6. Harvested 10-5-05, (2) 30 inch rows by 27 ft.