

Impact of Glyphosate Failure on Soybean.

Project Code: 06-11A-E90 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: 11-22-06

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.	AMBEL ragweed, common	Ambrosia artemisiifolia L.
3.	AMATA waterhemp, common	Amaranthus rudis Sauer
4.	AMBTR ragweed, giant	Ambrosia trifida L.
5.	IPOHE morningglory, ivyleaf	Ipomoea hederacea (L.) Jacq.

Crop 1: GLXMA soybean Variety: Asgrow 4403 RR
Planting Method: Seeded Planting Date: 5-30-06
Rate: 75 lb/A Depth: 1.0 IN
Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 26 FT Reps: 3
Tillage Type: Reduced-Till Study Design: Randomized complete block
Previous Crop, Year: ZEAMX, 2005
Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 100 LB/A

Soil Name: Weir % OM: 2 pH: 5.6 CEC: 11
Texture: Silt loam Fert. Level: P1: 75 LB/A, K: 348 LB/A

APPLICATION DESCRIPTION

	A	B	C	D	E
Application Date:	5-30-06	6-23-06	7-3-06	7-7-06	7-17-06
Time of Day:	14:00	9:00	15:30	8:30	9:00
Application Method:	Spray	Spray	Spray	Spray	Spray
Application Timing:	PRE	4-8"W	10-14"W	2WA-B	2WA-C
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	88 F	76 F	94 F	68 F	78 F
% Relative Humidity:	82	92	60	94	92
Wind Velocity, Unit:	4-6 MPH	3-4 MPH	4-5 MPH	1-2 MPH	3-5 MPH
Soil Moisture:	NORMAL	ABONOR	NORMAL	NORMAL	NORMAL

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E
Crop 1 Code, Stage:	GLXMA NA	GLXMA V2	GLXMA V4	GLXMA V4	GLXMA R3
Height, Unit:	NA NA	4 IN	7 IN	9 IN	16 IN

WEED STAGE AT EACH APPLICATION

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

Impact of Glyphosate Failure on Soybean.

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Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

GLXMA GLXMA GLXMA GLXMA GLXMA
 Moisture Yield Injury Injury Injury
 Percent bu/A Percent Percent Percent
 10-20-06 10-20-06
 0 DAPO2 14 DAPO2 28 DAPO2

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Moisture Percent 10-20-06	GLXMA Yield bu/A 10-20-06	GLXMA Injury Percent 0 DAPO2	GLXMA Injury Percent 14 DAPO2	GLXMA Injury Percent 28 DAPO2
1	NONTREATED									16.0	17	0	0	0
2	DUAL II MAGNUM	7.64	EC	1.27	lb ai/a	1.33	pt/a	PRE	A	16.1	53	0	0	0
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	15.5	54	0	0	0
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	B	15.9	55	0	0	0
4	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D					
5	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	4-8"W	B	15.9	50	0	0	0
5	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D					
6	ROUNDUP W-MAX	4.5	SL	0.193	lb ae/a	5.5	fl oz/a	4-8"W	B	15.7	52	0	0	0
6	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D					
7	ROUNDUP W-MAX	4.5	SL	0.097	lb ae/a	2.75	fl oz/a	4-8"W	B	15.8	55	0	0	0
7	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D					
8	ROUNDUP W-MAX	4.5	SL	0.048	lb ae/a	1.37	fl oz/a	4-8"W	B	15.9	52	0	0	0
8	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D					
9	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D	16.0	48	0	0	0
10	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-14"W	C	15.4	48	0	0	0
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"W	C	15.7	48	0	0	0
12	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-14"W	C	15.7	47	0	0	0
12	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E					
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"W	C	15.5	43	0	0	0
13	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E					
14	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	10-14"W	C	15.7	49	0	0	0
14	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E					
15	ROUNDUP W-MAX	4.5	SL	0.193	lb ae/a	5.5	fl oz/a	10-14"W	C	15.6	46	0	0	0
15	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E					
16	ROUNDUP W-MAX	4.5	SL	0.097	lb ae/a	2.75	fl oz/a	10-14"W	C	15.6	45	0	0	0
16	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E					
17	ROUNDUP W-MAX	4.5	SL	0.048	lb ae/a	1.37	fl oz/a	10-14"W	C	15.8	39	0	0	0
17	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E					
18	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E	15.8	41	0	0	0
LSD (P=.05)										0.55	10.1	0.0	0.0	0.0
Replicate F										3.277	0.238	0.000	0.000	0.000
Replicate Prob(F)										0.0500	0.7892	1.0000	1.0000	1.0000
Treatment F										1.042	6.298	0.000	0.000	0.000
Treatment Prob(F)										0.4429	0.0001	1.0000	1.0000	1.0000

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									SETFA	SETFA	SETFA	AMBEL	AMBEL	AMBEL	
									Control	Control	Control	Control	Control	Control	
									Percent	Percent	Percent	Percent	Percent	Percent	
									0 DAPO2	14 DAPO2	28 DAPO2	0 DAPO2	14 DAPO2	28 DAPO2	
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	0	0
2	DUAL II MAGNUM	7.64	EC	1.27	lb ai/a	1.33	pt/a	PRE	A	99	99	99	99	99	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	99	97	96	99	99	98
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	B	99	99	99	99	99	99
4	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D						
5	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	4-8"W	B	99	99	99	99	99	99
5	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D						
6	ROUNDUP W-MAX	4.5	SL	0.193	lb ae/a	5.5	fl oz/a	4-8"W	B	98	99	99	97	99	99
6	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D						
7	ROUNDUP W-MAX	4.5	SL	0.097	lb ae/a	2.75	fl oz/a	4-8"W	B	94	99	99	88	99	99
7	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D						
8	ROUNDUP W-MAX	4.5	SL	0.048	lb ae/a	1.37	fl oz/a	4-8"W	B	62	99	99	48	96	98
8	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D						
9	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D	0	99	99	0	99	99
10	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-14"W	C	99	99	99	96	99	99
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"W	C	99	99	99	96	99	99
12	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-14"W	C	99	99	99	97	99	99
12	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E						
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"W	C	99	99	99	95	99	99
13	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E						
14	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	10-14"W	C	92	99	99	77	99	99
14	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E						
15	ROUNDUP W-MAX	4.5	SL	0.193	lb ae/a	5.5	fl oz/a	10-14"W	C	84	99	99	62	99	99
15	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E						
16	ROUNDUP W-MAX	4.5	SL	0.097	lb ae/a	2.75	fl oz/a	10-14"W	C	68	99	99	32	98	99
16	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E						
17	ROUNDUP W-MAX	4.5	SL	0.048	lb ae/a	1.37	fl oz/a	10-14"W	C	27	99	99	20	99	99
17	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E						
18	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E	0	99	99	0	99	99
LSD (P=.05)										8.8	0.8	0.6	5.7	1.3	0.7
Replicate F										1.877	1.000	0.654	2.285	1.545	1.214
Replicate Prob(F)										0.1686	0.3784	0.5265	0.1176	0.2278	0.3095
Treatment F										158.348	6769.286	14372.126	388.454	2829.017	8905.555
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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									AMATA	AMATA	AMATA	AMBTR	AMBTR	AMBTR	
									Control	Control	Control	Control	Control	Control	
									Percent	Percent	Percent	Percent	Percent	Percent	
									0 DAPO2	14 DAPO2	28 DAPO2	0 DAPO2	14 DAPO2	28 DAPO2	
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	0	0
2	DUAL II MAGNUM	7.64	EC	1.27	lb ai/a	1.33	pt/a	PRE	A	99	99	99	99	99	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	98	87	87	98	98	98
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	B	99	99	99	97	99	99
4	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D						
5	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	4-8"W	B	97	99	99	93	98	99
5	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D						
6	ROUNDUP W-MAX	4.5	SL	0.193	lb ae/a	5.5	fl oz/a	4-8"W	B	87	98	98	83	97	99
6	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D						
7	ROUNDUP W-MAX	4.5	SL	0.097	lb ae/a	2.75	fl oz/a	4-8"W	B	37	99	98	45	82	90
7	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D						
8	ROUNDUP W-MAX	4.5	SL	0.048	lb ae/a	1.37	fl oz/a	4-8"W	B	8	98	99	0	78	86
8	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D						
9	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D	0	99	98	0	73	87
10	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-14"W	C	90	99	95	85	95	95
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"W	C	83	98	93	67	93	92
12	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-14"W	C	91	99	99	86	98	99
12	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E						
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"W	C	85	99	99	70	99	99
13	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E						
14	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	10-14"W	C	60	99	99	48	98	98
14	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E						
15	ROUNDUP W-MAX	4.5	SL	0.193	lb ae/a	5.5	fl oz/a	10-14"W	C	47	99	99	25	92	92
15	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E						
16	ROUNDUP W-MAX	4.5	SL	0.097	lb ae/a	2.75	fl oz/a	10-14"W	C	22	99	94	23	92	91
16	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E						
17	ROUNDUP W-MAX	4.5	SL	0.048	lb ae/a	1.37	fl oz/a	10-14"W	C	12	99	99	5	91	89
17	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E						
18	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E	0	99	96	0	96	93
LSD (P=.05)										9.4	1.8	4.7	5.9	11.2	8.1
Replicate F										0.192	0.593	0.612	0.195	0.020	0.749
Replicate Prob(F)										0.8261	0.5584	0.5481	0.8235	0.9800	0.4804
Treatment F										150.324	1407.683	204.577	368.750	35.756	66.118
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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Crop Code												
Rating Data Type										Control	Control	Control
Rating Unit										Percent	Percent	Percent
Rating Date												
Trt-Eval Interval										0 DAPO2	14 DAPO2	28 DAPO2

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code			
1	NONTREATED									0	0	0
2	DUAL II MAGNUM	7.64	EC	1.27	lb ai/a	1.33	pt/a	PRE	A	99	99	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	88	92	93
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	B	90	94	92
4	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D			
5	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	4-8"W	B	82	89	88
5	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D			
6	ROUNDUP W-MAX	4.5	SL	0.193	lb ae/a	5.5	fl oz/a	4-8"W	B	47	82	84
6	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D			
7	ROUNDUP W-MAX	4.5	SL	0.097	lb ae/a	2.75	fl oz/a	4-8"W	B	38	83	84
7	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D			
8	ROUNDUP W-MAX	4.5	SL	0.048	lb ae/a	1.37	fl oz/a	4-8"W	B	3	78	82
8	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D			
9	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-B	D	0	85	87
10	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-14"W	C	60	98	93
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"W	C	42	94	93
12	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-14"W	C	55	98	99
12	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E			
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"W	C	43	93	98
13	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E			
14	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	10-14"W	C	30	97	98
14	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E			
15	ROUNDUP W-MAX	4.5	SL	0.193	lb ae/a	5.5	fl oz/a	10-14"W	C	10	93	97
15	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E			
16	ROUNDUP W-MAX	4.5	SL	0.097	lb ae/a	2.75	fl oz/a	10-14"W	C	0	92	95
16	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E			
17	ROUNDUP W-MAX	4.5	SL	0.048	lb ae/a	1.37	fl oz/a	10-14"W	C	0	92	95
17	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E			
18	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	2WA-C	E	0	91	92
LSD (P=.05)										8.2	7.6	7.9
Replicate F										1.000	6.893	2.711
Replicate Prob(F)										0.3784	0.0031	0.0808
Treatment F										154.116	72.103	66.138
Treatment Prob(F)										0.0001	0.0001	0.0001

Trial Comments

1. Protocol: SIU-BGY-ISA.
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. DAPO2 = Days after the second postemergence application.
 Rating at 0 DAPO2 are at 2WA-B or 2WA-C applications and were on 7-6-06 and 7-14-06, respectively.
 Rating at 14 DAPO2 were on 7-21-06 and 7-31-06 for the 2WA-B and 2WA-C applications, respectively.
 Rating at 28 DAPO2 were on 8-4-06 and 8-14-06 for the 2WA-B and 2WA-C applications, respectively.
6. Harvested 10-20-06, (2) 30 inch rows by 23 ft.