

One-pass Preemergence Programs Versus Sequential in Glyphosate-Resistant Corn.

Project Code: 06-51E-N80 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: 11-27-06

Objective:

Compare the overall efficacy and yield potential of total preemergence versus sequential herbicide programs in glyphosate-resistant corn.

Weed Code	Common Name	Scientific Name
1.	PANDI panicum, fall	Panicum dichotomiflorum Michx.
2.	CYPES nutsedge, yellow	Cyperus esculentus L.
3.	AMBTR ragweed, giant	Ambrosia trifida L.
4.	ABUTH velvetleaf	Abutilon theophrasti Medicus
5.	AMATA waterhemp, common	Amaranthus rudis Sauer

Crop 1: ZEAMX corn, field Variety: 33K44
Planting Method: Seeded Planting Date: 5-23-06
Rate: 28000 S/A Depth: 1.5 IN
Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 27 FT Reps: 3
Tillage Type: Reduced-Till Study Design: Randomized complete block
Previous Crop, Year: GLXMA, 2005
Field Prep./Maintenance: N 150 LB/A, P205 0 LB/A, K20 100 LB/A

Soil Name: Weir % OM: 2.2 pH: 6.7 CEC: 11
Texture: Silt loam Fert. Level: P1: 90 LB/A, K: 409 LB/A

APPLICATION DESCRIPTION

	A	B	C
Application Date:	5-24-06	6-9-06	6-13-06
Time of Day:	11:30	8:30	16:00
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	2-4"W	3-4"W
Applic. Placement:	BROSOI	BROFOL	BROFOL
Air Temp., Unit:	86 F	78 F	80 F
% Relative Humidity:	72	90	48
Wind Velocity, Unit:	6 MPH	2-3 MPH	3-5 MPH
Soil Moisture:	BELNOR	NORMAL	NORMAL

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX V4	ZEAMX V4
Height, Unit:	NA NA	9-11 IN	12 IN

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code:		PANDI	PANDI
Stage (leaves):		2-4	3-4
Height (inches):		0-3	3-4
Density:		Low	Low
Weed 2 Code:		CYPES	CYPES
Stage (leaves):		2-6	6-7
Height (inches):		0-3	4-5
Density:		Medium	Low
Weed 3 Code:		AMBTR	AMBTR
Stage (leaves):		2-6	4-6
Height (inches):		0-5	3-4
Density:		Medium	Medium
Weed 4 Code:		ABUTH	ABUTH
Stage (leaves):		2-4	3-4
Height (inches):		0-3	3-4
Density:		Medium	Low
Weed 5 Code:		AMATA	AMATA
Stage (leaves):		2-6	2-6
Height (inches):		0-3	1-4
Density:		Medium	Medium

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan
Nozzle Size:	8002	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

NOTES:

One-pass Preemergence Programs Versus Sequential in Glyphosate-Resistant Corn.

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Weed Code									ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Code									Moisture	Yield	Bleach	Injury	Injury	Injury	Injury	Injury
Rating Data Type									Percent	bu/A	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit									10-12-06	10-12-06	5-31-06	6-8-06	6-20-06	6-23-06		
Rating Date											7 DA-A	-1 DA-B	7 DA-C	14 DA-B	28 DAPO	56 DAPO
Trt-Eval Interval																
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code							
1	NONTREATED									15.4	59	0	0	0	0	0
2	LEXAR	3.7	L	2.78	lb ai/a	3	qt/a	PRE	A	15.8	175	0	0	0	0	0
3	RADIUS	4	SC	0.625	lb ai/a	20	fl oz/a	PRE	A	16.4	154	0	0	0	0	0
4	HARNESS XTRA	6	L	1.8	lb ai/a	2.4	pt/a	PRE	A	16.2	192	0	0	0	0	0
4	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"	W C							
4	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	3-4"	W C							
5	DEGREE XTRA	4	L	2.02	lb ai/a	2.02	qt/a	PRE	A	15.9	195	0	0	0	0	0
5	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"	W C							
5	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	3-4"	W C							
6	DEGREE XTRA	4	L	2.02	lb ai/a	2.02	qt/a	2-4"	W B	16.1	192			0	0	0
6	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	2-4"	W B							
6	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	2-4"	W B							
7	LEXAR	3.7	L	1.85	lb ai/a	2	qt/a	2-4"	W B	16.8	188			0	0	0
7	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"	W B							
7	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	2-4"	W B							
8	AATREX	90	WG	2.0	lb ai/a	2.22	lb/a	PRE	A	16.1	191	0	0	0	0	0
8	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"	W C							
8	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	3-4"	W C							
9	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	16.2	192	0	0	0	0	0
9	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"	W C							
9	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	3-4"	W C							
10	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	16.2	194	0	0	0	0	0
10	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A							
10	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"	W C							
10	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	3-4"	W C							
11	DEGREE XTRA	4	L	1.5	lb ai/a	1.5	qt/a	PRE	A	16.3	194	0	0	0	0	0
11	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"	W C							
11	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	3-4"	W C							
12	DEGREE XTRA	4	L	2.0	lb ai/a	2	qt/a	PRE	A	15.9	189	0	0	0	0	0
12	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	3-4"	W C							
12	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"	W C							
12	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	3-4"	W C							
13	DEGREE XTRA	4	L	2.0	lb ai/a	2	qt/a	PRE	A	15.9	185	0	0	0	0	0
13	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	3-4"	W C							
13	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"	W C							
13	AATREX	90	WG	0.5	lb ai/a	0.556	lb/a	3-4"	W C							
13	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	3-4"	W C							
14	DEGREE XTRA	4	L	2.0	lb ai/a	2	qt/a	PRE	A	16.4	185	0	0	0	0	0
14	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	3-4"	W C							
14	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"	W C							
14	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	3-4"	W C							
14	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	3-4"	W C							
15	LEXAR	3.7	L	2.78	lb ai/a	3	qt/a	PRE	A	16.4	195	0	0	0	0	0
15	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A							
16	RADIUS	4	SC	0.625	lb ai/a	20	fl oz/a	PRE	A	16.6	197	0	0	0	0	0
16	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A							
LSD (P=.05)										0.61	22.3	0.0	0.0	0.0	0.0	0.0
Replicate F										1.485	5.384	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)										0.2428	0.0100	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F										2.475	19.291	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)										0.0169	0.0001	1.0000	1.0000	1.0000	1.0000	1.0000

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Weed Code	PANDI	PANDI	PANDI	PANDI	CYPES	CYPES	CYPES	CYPES
Crop Code	Control	Control	Control	Control	Control	Control	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit								
Rating Date								
Trt-Eval Interval	-1 DA-B	14 DA-B	28 DAPO	56 DAPO	-1 DA-B	14 DA-B	28 DAPO	56 DAPO

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	PANDI	PANDI	PANDI	PANDI	CYPES	CYPES	CYPES	CYPES
1	NONTREATED									0	0	0	0	0	0	0	0
2	LEXAR	3.7	L	2.78	lb ai/a	3	qt/a	PRE	A	99	98	97	97	98	93	94	94
3	RADIUS	4	SC	0.625	lb ai/a	20	fl oz/a	PRE	A	97	97	98	99	90	67	63	63
4	HARNESX XTRA	6	L	1.8	lb ai/a	2.4	pt/a	PRE	A	99	99	99	99	89	88	92	93
4	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"	W C								
4	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	3-4"	W C								
5	DEGREE XTRA	4	L	2.02	lb ai/a	2.02	qt/a	PRE	A	99	99	99	99	90	88	90	91
5	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"	W C								
5	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	3-4"	W C								
6	DEGREE XTRA	4	L	2.02	lb ai/a	2.02	qt/a	2-4"	W B		95	94	93		89	92	93
6	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	2-4"	W B								
6	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	2-4"	W B								
7	LEXAR	3.7	L	1.85	lb ai/a	2	qt/a	2-4"	W B		98	96	96		94	96	95
7	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"	W B								
7	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	2-4"	W B								
8	AATREX	90	WG	2.0	lb ai/a	2.22	lb/a	PRE	A	83	99	98	97	68	88	89	91
8	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"	W C								
8	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	3-4"	W C								
9	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	98	99	98	98	85	88	92	92
9	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"	W C								
9	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	3-4"	W C								
10	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	99	99	99	98	94	88	94	93
10	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A								
10	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"	W C								
10	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	3-4"	W C								
11	DEGREE XTRA	4	L	1.5	lb ai/a	1.5	qt/a	PRE	A	99	99	99	99	93	91	93	93
11	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"	W C								
11	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	3-4"	W C								
12	DEGREE XTRA	4	L	2.0	lb ai/a	2	qt/a	PRE	A	99	99	99	99	92	94	92	94
12	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	3-4"	W C								
12	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"	W C								
12	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	3-4"	W C								
13	DEGREE XTRA	4	L	2.0	lb ai/a	2	qt/a	PRE	A	99	99	99	99	92	93	95	96
13	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	3-4"	W C								
13	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"	W C								
13	AATREX	90	WG	0.5	lb ai/a	0.556	lb/a	3-4"	W C								
13	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	3-4"	W C								
14	DEGREE XTRA	4	L	2.0	lb ai/a	2	qt/a	PRE	A	98	99	99	99	98	97	97	98
14	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	3-4"	W C								
14	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"	W C								
14	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	3-4"	W C								
14	AMS	100	DRY	1	% w/w	8.5	lb/100 gal	3-4"	W C								
15	LEXAR	3.7	L	2.78	lb ai/a	3	qt/a	PRE	A	99	99	98	98	97	97	96	96
15	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A								
16	RADIUS	4	SC	0.625	lb ai/a	20	fl oz/a	PRE	A	99	99	98	99	66	63	57	63
16	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A								
LSD (P=.05)										12.8	0.9	2.6	2.6	29.0	9.3	12.3	14.2
Replicate F										0.852	0.628	1.360	1.506	2.651	1.245	0.576	0.866
Replicate Prob(F)										0.4383	0.5406	0.2719	0.2381	0.0896	0.3025	0.5681	0.4308
Treatment F										35.822	6092.131	751.523	720.592	6.600	55.206	34.589	25.481
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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 Investigator: Bryan Young

Weed Code				AMBTR	AMBTR	AMBTR	AMBTR	ABUTH	ABUTH	ABUTH	ABUTH					
Crop Code				Control	Control	Control	Control	Control	Control	Control	Control					
Rating Data Type				Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent					
Rating Unit																
Rating Date																
Trt-Eval Interval				-1 DA-B	14 DA-B	28 DAPO	56 DAPO	-1 DA-B	14 DA-B	28 DAPO	56 DAPO					
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Rate	Prod Unit	Grow Stg	Appl Code								
1	NONTREATED								0	0	0	0				
2	LEXAR	3.7 L		2.78 lb ai/a	3 qt/a		PRE	A	99	97	98	96				
3	RADIUS	4 SC		0.625 lb ai/a	20 fl oz/a		PRE	A	89	67	62	45				
4	HARNESX XTRA	6 L		1.8 lb ai/a	2.4 pt/a		PRE	A	94	98	94	92				
4	ROUNDUP ORIG MAX	4.5 SL		0.75 lb ae/a	21.3 fl oz/a		3-4"W	C								
4	AMS	100 DRY		1 % w/w	8.5 lb/100 gal		3-4"W	C								
5	DEGREE XTRA	4 L		2.02 lb ai/a	2.02 qt/a		PRE	A	94	98	94	93				
5	ROUNDUP ORIG MAX	4.5 SL		0.75 lb ae/a	21.3 fl oz/a		3-4"W	C								
5	AMS	100 DRY		1 % w/w	8.5 lb/100 gal		3-4"W	C								
6	DEGREE XTRA	4 L		2.02 lb ai/a	2.02 qt/a		2-4"W	B		98	98	98				
6	ROUNDUP ORIG MAX	4.5 SL		0.75 lb ae/a	21.3 fl oz/a		2-4"W	B			99	97				
6	AMS	100 DRY		1 % w/w	8.5 lb/100 gal		2-4"W	B				98				
7	LEXAR	3.7 L		1.85 lb ai/a	2 qt/a		2-4"W	B		98	99	99				
7	TOUCHDOWN TOTAL	4.17 SC		0.78 lb ae/a	24 fl oz/a		2-4"W	B			99	99				
7	AMS	100 DRY		1 % w/w	8.5 lb/100 gal		2-4"W	B				99				
8	AATREX	90 WG		2.0 lb ai/a	2.22 lb/a		PRE	A	98	98	93	93				
8	ROUNDUP ORIG MAX	4.5 SL		0.75 lb ae/a	21.3 fl oz/a		3-4"W	C				97				
8	AMS	100 DRY		1 % w/w	8.5 lb/100 gal		3-4"W	C				96				
9	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		PRE	A	97	98	92	93				
9	ROUNDUP ORIG MAX	4.5 SL		0.75 lb ae/a	21.3 fl oz/a		3-4"W	C				95				
9	AMS	100 DRY		1 % w/w	8.5 lb/100 gal		3-4"W	C				98				
10	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		PRE	A	97	98	92	92				
10	PRINCEP	90 WG		1.0 lb ai/a	1.11 lb/a		PRE	A				99				
10	ROUNDUP ORIG MAX	4.5 SL		0.75 lb ae/a	21.3 fl oz/a		3-4"W	C				99				
10	AMS	100 DRY		1 % w/w	8.5 lb/100 gal		3-4"W	C				94				
11	DEGREE XTRA	4 L		1.5 lb ai/a	1.5 qt/a		PRE	A	90	98	93	92				
11	ROUNDUP ORIG MAX	4.5 SL		0.75 lb ae/a	21.3 fl oz/a		3-4"W	C				96				
11	AMS	100 DRY		1 % w/w	8.5 lb/100 gal		3-4"W	C				94				
12	DEGREE XTRA	4 L		2.0 lb ai/a	2 qt/a		PRE	A	92	98	93	92				
12	IMPACT	2.8 SC		0.0164 lb ai/a	0.75 fl oz/a		3-4"W	C				93				
12	ROUNDUP ORIG MAX	4.5 SL		0.75 lb ae/a	21.3 fl oz/a		3-4"W	C				98				
12	AMS	100 DRY		1 % w/w	8.5 lb/100 gal		3-4"W	C				98				
13	DEGREE XTRA	4 L		2.0 lb ai/a	2 qt/a		PRE	A	94	99	97	97				
13	IMPACT	2.8 SC		0.0164 lb ai/a	0.75 fl oz/a		3-4"W	C				91				
13	ROUNDUP ORIG MAX	4.5 SL		0.75 lb ae/a	21.3 fl oz/a		3-4"W	C				99				
13	AATREX	90 WG		0.5 lb ai/a	0.556 lb/a		3-4"W	C				98				
13	AMS	100 DRY		1 % w/w	8.5 lb/100 gal		3-4"W	C				99				
14	DEGREE XTRA	4 L		2.0 lb ai/a	2 qt/a		PRE	A	95	99	99	99				
14	IMPACT	2.8 SC		0.0164 lb ai/a	0.75 fl oz/a		3-4"W	C				93				
14	ROUNDUP ORIG MAX	4.5 SL		0.75 lb ae/a	21.3 fl oz/a		3-4"W	C				99				
14	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		3-4"W	C				99				
14	AMS	100 DRY		1 % w/w	8.5 lb/100 gal		3-4"W	C				99				
15	LEXAR	3.7 L		2.78 lb ai/a	3 qt/a		PRE	A	98	98	97	97				
15	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		PRE	A				99				
16	RADIUS	4 SC		0.625 lb ai/a	20 fl oz/a		PRE	A	99	97	94	94				
16	AATREX	90 WG		1.5 lb ai/a	1.67 lb/a		PRE	A				99				
LSD (P=.05)									3.5	7.5	6.4	11.3	5.1	6.6	6.5	6.4
Replicate F									1.017	0.728	0.080	0.150	0.504	0.828	1.750	2.962
Replicate Prob(F)									0.3755	0.4911	0.9230	0.8617	0.6100	0.4465	0.1910	0.0670
Treatment F									443.810	95.276	124.850	45.046	208.549	114.034	115.831	120.367
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

One-pass Preemergence Programs Versus Sequential in Glyphosate-Resistant Corn.

Project Code: 06-51E-N80 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code								AMATA	AMATA	AMATA	AMATA		
Crop Code								Control	Control	Control	Control		
Rating Data Type								Percent	Percent	Percent	Percent		
Rating Unit													
Rating Date													
Trt-Eval Interval								-1 DA-B	14 DA-B	28 DAPO	56 DAPO		
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	LEXAR	3.7 L		2.78	lb ai/a	3	qt/a	PRE	A	99	99	99	99
3	RADIUS	4 SC		0.625	lb ai/a	20	fl oz/a	PRE	A	99	99	99	99
4	HARNESS XTRA	6 L		1.8	lb ai/a	2.4	pt/a	PRE	A	99	99	99	99
4	ROUNDUP ORIG MAX	4.5 SL		0.75	lb ae/a	21.3	fl oz/a	3-4"W	C				
4	AMS	100 DRY		1	% w/w	8.5	lb/100 gal	3-4"W	C				
5	DEGREE XTRA	4 L		2.02	lb ai/a	2.02	qt/a	PRE	A	99	99	99	99
5	ROUNDUP ORIG MAX	4.5 SL		0.75	lb ae/a	21.3	fl oz/a	3-4"W	C				
5	AMS	100 DRY		1	% w/w	8.5	lb/100 gal	3-4"W	C				
6	DEGREE XTRA	4 L		2.02	lb ai/a	2.02	qt/a	2-4"W	B		98	98	98
6	ROUNDUP ORIG MAX	4.5 SL		0.75	lb ae/a	21.3	fl oz/a	2-4"W	B				
6	AMS	100 DRY		1	% w/w	8.5	lb/100 gal	2-4"W	B				
7	LEXAR	3.7 L		1.85	lb ai/a	2	qt/a	2-4"W	B		99	99	99
7	TOUCHDOWN TOTAL	4.17 SC		0.78	lb ae/a	24	fl oz/a	2-4"W	B				
7	AMS	100 DRY		1	% w/w	8.5	lb/100 gal	2-4"W	B				
8	AATREX	90 WG		2.0	lb ai/a	2.22	lb/a	PRE	A	99	99	99	99
8	ROUNDUP ORIG MAX	4.5 SL		0.75	lb ae/a	21.3	fl oz/a	3-4"W	C				
8	AMS	100 DRY		1	% w/w	8.5	lb/100 gal	3-4"W	C				
9	AATREX	90 WG		1.0	lb ai/a	1.11	lb/a	PRE	A	99	99	99	99
9	ROUNDUP ORIG MAX	4.5 SL		0.75	lb ae/a	21.3	fl oz/a	3-4"W	C				
9	AMS	100 DRY		1	% w/w	8.5	lb/100 gal	3-4"W	C				
10	AATREX	90 WG		1.0	lb ai/a	1.11	lb/a	PRE	A	99	99	99	99
10	PRINCEP	90 WG		1.0	lb ai/a	1.11	lb/a	PRE	A				
10	ROUNDUP ORIG MAX	4.5 SL		0.75	lb ae/a	21.3	fl oz/a	3-4"W	C				
10	AMS	100 DRY		1	% w/w	8.5	lb/100 gal	3-4"W	C				
11	DEGREE XTRA	4 L		1.5	lb ai/a	1.5	qt/a	PRE	A	99	99	99	99
11	ROUNDUP ORIG MAX	4.5 SL		0.75	lb ae/a	21.3	fl oz/a	3-4"W	C				
11	AMS	100 DRY		1	% w/w	8.5	lb/100 gal	3-4"W	C				
12	DEGREE XTRA	4 L		2.0	lb ai/a	2	qt/a	PRE	A	96	99	99	99
12	IMPACT	2.8 SC		0.0164	lb ai/a	0.75	fl oz/a	3-4"W	C				
12	ROUNDUP ORIG MAX	4.5 SL		0.75	lb ae/a	21.3	fl oz/a	3-4"W	C				
12	AMS	100 DRY		1	% w/w	8.5	lb/100 gal	3-4"W	C				
13	DEGREE XTRA	4 L		2.0	lb ai/a	2	qt/a	PRE	A	99	99	99	99
13	IMPACT	2.8 SC		0.0164	lb ai/a	0.75	fl oz/a	3-4"W	C				
13	ROUNDUP ORIG MAX	4.5 SL		0.75	lb ae/a	21.3	fl oz/a	3-4"W	C				
13	AATREX	90 WG		0.5	lb ai/a	0.556	lb/a	3-4"W	C				
13	AMS	100 DRY		1	% w/w	8.5	lb/100 gal	3-4"W	C				
14	DEGREE XTRA	4 L		2.0	lb ai/a	2	qt/a	PRE	A	99	99	99	99
14	IMPACT	2.8 SC		0.0164	lb ai/a	0.75	fl oz/a	3-4"W	C				
14	ROUNDUP ORIG MAX	4.5 SL		0.75	lb ae/a	21.3	fl oz/a	3-4"W	C				
14	AATREX	90 WG		1.0	lb ai/a	1.11	lb/a	3-4"W	C				
14	AMS	100 DRY		1	% w/w	8.5	lb/100 gal	3-4"W	C				
15	LEXAR	3.7 L		2.78	lb ai/a	3	qt/a	PRE	A	99	99	99	99
15	AATREX	90 WG		1.0	lb ai/a	1.11	lb/a	PRE	A				
16	RADIUS	4 SC		0.625	lb ai/a	20	fl oz/a	PRE	A	99	99	98	99
16	AATREX	90 WG		1.5	lb ai/a	1.67	lb/a	PRE	A				
LSD (P=0.05)								2.3	0.5	0.7	0.2		
Replicate F								1.000	1.000	1.552	1.000		
Replicate Prob(F)								0.3816	0.3798	0.2284	0.3798		
Treatment F								1084.923	22033.451	11378.062	88133.806		
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001		

Trial Comments

1. Protocol: Monsanto, AMVAC.
2. Ratings: % bleaching 7 DA PRE, CI/WC 28 DA PRE or prior to POST; CI 7 DA "C"; CI/WC 14, 28 + 56 DA POST timings; maybe rate at 45 DA PRE if not close to the other evaluation timings.
3. Yield.
4. Bleach = Bleaching. DA-A = Days after PRE application. DA-B = Days after 2-4"W application.
Ratings at -1 DA-B = Prior to postemergence applications and 15 days after the PRE application.
DA-C = Days after 3-4"W application. 7 DA-C was also 27 and 11 days after the PRE and 2-4"W applications, respectively.
DAPO = Days after postemergence application.
Ratings at -1 DA-B were on 6-8-06.
Ratings at 14 DA-B were on 6-23-06.
Ratings at 28 DAPO were on 7-7-06 and 7-11-06 for the 2-4"W and 3-4"W applications, respectively.
Ratings at 56 DAPO were on 8-4-06 and 8-8-06 for the 2-4"W and 3-4"W applications, respectively.
5. Harvested 10-12-06, (2) 30 inch rows by 24 ft.