

Influence of Residual Herbicides on Weed Spectrum in Glyphosate-Resistant Corn.

Project Code: 06-51W-N180 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: 10-9-06**Objective:**Evaluate different grass and broadleaf herbicides ahead of glyphosate-resistant corn.
Evaluate the rate structure necessary for two different application timings of residual herbicides.
Determine the competitive load imposed on corn as a result of the residual herbicide efficacy.

Weed Code	Common Name	Scientific Name
1.	SETFA foxtail, giant	Setaria faberi Herrm.
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
6.	PANDI panicum, fall	Panicum dichotomiflorum Michx.
7.	CHEAL lambsquarters, common	Chenopodium album L.
8.	IPOSS morningglory, species	Ipomoea sp.

Crop 1:	ZEAMX corn, field	Variety:	33K44
Planting Method:	Seeded	Planting Date:	5-8-06
Rate:	28000 S/A	Depth:	1.5 IN
Row Spacing:	30 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	27 FT	Reps:	4
Tillage Type:	Reduced-Till	Study Design:	Randomized complete block		
Previous Crop, Year:	ZEAMX, 2005				
Field Prep./Maintenance:	N 150 LB/A, P205 0 LB/A, K20 100 LB/A				

Soil Name:	Weir	% OM:	2.2	pH:	6.5	CEC:	11
Texture:	Silt loam	Fert. Level:	P1: 94 LB/A, K: 396 LB/A				

APPLICATION DESCRIPTION

	A	B	C
Application Date:	5-9-06	6-5-06	6-14-06
Time of Day:	15:00	16:00	15:30
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	EPOST	LPOST
Applic. Placement:	BROSUI	BROSUI	BROSUI
Air Temp., Unit:	62 F	82 F	86 F
% Relative Humidity:	94	40	46
Wind Velocity, Unit:	3 MPH	3 MPH	1-2 MPH
Soil Moisture:	ABONOR	NORMAL	NORMAL

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX V3-V4	ZEAMX V6
Height, Unit:	NA NA	11 IN	24-28 IN

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code:	SETFA	SETFA	SETFA
Stage (leaves):	1-4	2-8	
Height (inches):	0-4	0-10	
Density:	Medium	Medium	
Weed 2 Code:	CYPES	CYPES	CYPES
Stage (leaves):	2-8	2-12	
Height (inches):	1-4	0-12	
Density:	High	High	
Weed 3 Code:	AMBTR	AMBTR	AMBTR
Stage (leaves):	2-8	2-12	
Height (inches):	0-6	0-15	
Density:	High	High	
Weed 4 Code:	ABUTH	ABUTH	ABUTH
Stage (leaves):	2-4	2-8	
Height (inches):	0-3	0-10	
Density:	High	High	
Weed 5 Code:	AMATA	AMATA	AMATA
Stage (leaves):	2-6	2-10	
Height (inches):	0-4	0-12	
Density:	Low	Low	
Weed 6 Code:	PANDI	PANDI	PANDI
Stage (leaves):	1-4	2-8	
Height (inches):	0-4	0-10	
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:	8003	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA

NOTES:

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

ZEAMX ZEAMX ZEAMX ZEAMX
 Moisture Yield Injury Injury
 Percent bu/A Percent Percent
 10-6-06 10-6-06 7-6-06
 0 DAPO 21DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
1	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B	16.3	198		0
1	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B				
1	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
1	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C	15.9	145		0
2	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
3	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	15.7	176	0	0
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B				
3	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B				
4	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A	15.7	189	0	0
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B				
4	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B				
5	AATREX	90	WG	2.0	lb ai/a	2.22	lb/a	PRE	A	16.3	186	0	0
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B				
5	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B				
6	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	16.0	199	0	0
6	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A				
6	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B				
6	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B				
7	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	16.1	187	0	0
7	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A				
7	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B				
7	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B				
8	HARNESS XTRA	5.6	L	1.68	lb ai/a	1.2	qt/a	PRE	A	15.9	194	0	0
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B				
8	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B				
9	HARNESS XTRA	5.6	L	2.52	lb ai/a	1.8	qt/a	PRE	A	15.6	192	0	0
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B				
9	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B				
10	HARNESS XTRA	5.6	L	3.36	lb ai/a	2.4	qt/a	PRE	A	15.5	190	0	0
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B				
10	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B				
11	LEXAR	3.7	L	1.57	lb ai/a	1.7	qt/a	PRE	A	16.3	190	0	0
11	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B				
11	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B				
12	LEXAR	3.7	L	2.22	lb ai/a	2.4	qt/a	PRE	A	15.6	192	0	0
12	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B				
12	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B				
13	LEXAR	3.7	L	3.24	lb ai/a	3.5	qt/a	PRE	A	15.7	190	0	0
13	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B				
13	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B				
14	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	15.7	184	0	0
14	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
14	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
15	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A	15.4	166	0	0
15	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
15	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
16	AATREX	90	WG	2.0	lb ai/a	2.22	lb/a	PRE	A	15.4	155	0	0
16	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
16	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
17	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	15.8	184	0	0
17	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A				
17	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
17	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				

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 Rating Unit
 Rating Date
 Trt-Eval Interval

ZEAMX ZEAMX ZEAMX ZEAMX
 Moisture Yield Injury Injury
 Percent bu/A Percent Percent
 10-6-06 10-6-06 7-6-06
 0 DAPO 21DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	Moisture Percent	Yield bu/A	Injury Percent	Injury Percent
18	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	15.8	166	0	0
18	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A				
18	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
18	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
19	HARNESS XTRA	5.6	L	1.68	lb ai/a	1.2	qt/a	PRE	A	16.0	186	0	0
19	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
19	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
20	HARNESS XTRA	5.6	L	2.52	lb ai/a	1.8	qt/a	PRE	A	15.7	188	0	0
20	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
20	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
21	HARNESS XTRA	5.6	L	3.36	lb ai/a	2.4	qt/a	PRE	A	16.1	186	0	0
21	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
21	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
22	LEXAR	3.7	L	1.57	lb ai/a	1.7	qt/a	PRE	A	15.5	196	0	0
22	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
22	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
23	LEXAR	3.7	L	2.22	lb ai/a	2.4	qt/a	PRE	A	16.2	198	0	0
23	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
23	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
24	LEXAR	3.7	L	3.24	lb ai/a	3.5	qt/a	PRE	A	16.2	201	0	0
24	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
24	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
25	NONTREATED									14.9	24	0	0
26	WEED FREE									16.1	189	0	0
	LSD (P=.05)									0.82	24.3	0.0	0.0
	Replicate F									4.082	0.839	0.000	0.000
	Replicate Prob(F)									0.0097	0.4770	1.0000	1.0000
	Treatment F									1.324	15.833	0.000	0.000
	Treatment Prob(F)									0.1765	0.0001	1.0000	1.0000

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	SETFA	SETFA	SETFA	SETFA	SETFA				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	Control Percent	Control Percent	Control Percent	Presence Percent	Seeding Percent
										0 DAPO	21 DA-C	7-6-06 EOS	10-4-06 EOS	10-4-06 EOS
1	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B		97	99	25	100
1	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
1	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
1	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C		99	99	0	
2	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
3	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	78	94	99	0	
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
3	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
4	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A	79	97	99	0	
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
4	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
5	AATREX	90	WG	2.0	lb ai/a	2.22	lb/a	PRE	A	80	97	99	0	
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
5	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
6	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	86	96	98	0	
6	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A					
6	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
6	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
7	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	81	95	98	0	
7	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A					
7	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
7	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
8	HARNESS XTRA	5.6	L	1.68	lb ai/a	1.2	qt/a	PRE	A	98	98	99	0	
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
8	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
9	HARNESS XTRA	5.6	L	2.52	lb ai/a	1.8	qt/a	PRE	A	98	97	99	0	
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
9	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
10	HARNESS XTRA	5.6	L	3.36	lb ai/a	2.4	qt/a	PRE	A	99	99	99	0	
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
10	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
11	LEXAR	3.7	L	1.57	lb ai/a	1.7	qt/a	PRE	A	98	99	99	0	
11	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
11	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
12	LEXAR	3.7	L	2.22	lb ai/a	2.4	qt/a	PRE	A	99	99	99	0	
12	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
12	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
13	LEXAR	3.7	L	3.24	lb ai/a	3.5	qt/a	PRE	A	99	99	99	0	
13	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
13	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
14	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	84	99	99	0	
14	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
14	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
15	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A	81	99	99	0	
15	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
15	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
16	AATREX	90	WG	2.0	lb ai/a	2.22	lb/a	PRE	A	85	99	99	0	
16	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
16	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
17	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	92	99	99	0	
17	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A					
17	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
17	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					

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Weed Code		SETFA	SETFA	SETFA	SETFA	SETFA						
Crop Code												
Rating Data Type		Control	Control	Control	Presence	Seeding						
Rating Unit		Percent	Percent	Percent	Percent	Percent						
Rating Date			7-6-06	10-4-06	10-4-06	10-4-06						
Trt-Eval Interval		0 DAPO	21 DA-C	EOS	EOS	EOS						
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
18	AATREX	90	WG	1.0 lb ai/a	1.11	lb/a	PRE	A	83	99	99	0
18	PRINCEP	90	WG	1.0 lb ai/a	1.11	lb/a	PRE	A				
18	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32	fl oz/a	LPOST	C				
18	AMS	100	DRY	2 % w/w	17	lb/100 gal	LPOST	C				
19	HARNESS XTRA	5.6	L	1.68 lb ai/a	1.2	qt/a	PRE	A	97	99	99	0
19	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32	fl oz/a	LPOST	C				
19	AMS	100	DRY	2 % w/w	17	lb/100 gal	LPOST	C				
20	HARNESS XTRA	5.6	L	2.52 lb ai/a	1.8	qt/a	PRE	A	94	99	99	0
20	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32	fl oz/a	LPOST	C				
20	AMS	100	DRY	2 % w/w	17	lb/100 gal	LPOST	C				
21	HARNESS XTRA	5.6	L	3.36 lb ai/a	2.4	qt/a	PRE	A	98	99	99	0
21	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32	fl oz/a	LPOST	C				
21	AMS	100	DRY	2 % w/w	17	lb/100 gal	LPOST	C				
22	LEXAR	3.7	L	1.57 lb ai/a	1.7	qt/a	PRE	A	96	99	99	0
22	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32	fl oz/a	LPOST	C				
22	AMS	100	DRY	2 % w/w	17	lb/100 gal	LPOST	C				
23	LEXAR	3.7	L	2.22 lb ai/a	2.4	qt/a	PRE	A	98	99	99	0
23	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32	fl oz/a	LPOST	C				
23	AMS	100	DRY	2 % w/w	17	lb/100 gal	LPOST	C				
24	LEXAR	3.7	L	3.24 lb ai/a	3.5	qt/a	PRE	A	98	99	99	0
24	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32	fl oz/a	LPOST	C				
24	AMS	100	DRY	2 % w/w	17	lb/100 gal	LPOST	C				
25	NONTREATED								0	0	0	0
26	WEED FREE								99	99	99	0
LSD (P=.05)									6.7	2.7	0.8	8.0
Replicate F									5.478	2.830	1.569	1.000
Replicate Prob(F)									0.0020	0.0441	0.2039	0.3977
Treatment F									72.890	423.449	4281.421	3.000
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001

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Weed Code	CYPES	CYPES	CYPES	CYPES	CYPES
Crop Code	Control	Control	Control	Presence	Seeding
Rating Data Type	Percent	Percent	Percent	Percent	Percent
Rating Unit	0 DAPO	7-6-06	10-4-06	10-4-06	10-4-06
Rating Date		21 DA-C	EOS	EOS	EOS
Trt-Eval Interval					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B		95	98	25	0
1	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
1	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
1	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C		87	95	50	0
2	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
3	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	71	87	93	38	0
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
3	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
4	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A	78	88	94	13	0
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
4	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
5	AATREX	90	WG	2.0	lb ai/a	2.22	lb/a	PRE	A	83	86	95	38	17
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
5	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
6	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	78	87	97	25	0
6	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A					
6	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
6	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
7	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	68	82	95	25	25
7	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A					
7	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
7	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
8	HARNESS XTRA	5.6	L	1.68	lb ai/a	1.2	qt/a	PRE	A	89	85	95	50	0
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
8	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
9	HARNESS XTRA	5.6	L	2.52	lb ai/a	1.8	qt/a	PRE	A	94	88	93	38	0
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
9	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
10	HARNESS XTRA	5.6	L	3.36	lb ai/a	2.4	qt/a	PRE	A	93	88	95	50	8
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
10	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
11	LEXAR	3.7	L	1.57	lb ai/a	1.7	qt/a	PRE	A	97	94	98	13	0
11	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
11	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
12	LEXAR	3.7	L	2.22	lb ai/a	2.4	qt/a	PRE	A	97	95	98	38	0
12	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
12	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
13	LEXAR	3.7	L	3.24	lb ai/a	3.5	qt/a	PRE	A	97	97	98	38	0
13	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
13	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
14	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	75	91	98	25	0
14	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
14	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
15	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A	75	88	97	38	0
15	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
15	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
16	AATREX	90	WG	2.0	lb ai/a	2.22	lb/a	PRE	A	75	89	99	13	0
16	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
16	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
17	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	75	87	98	13	0
17	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A					
17	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
17	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					

Influence of Residual Herbicides on Weed Spectrum in Glyphosate-Resistant Corn.

Project Code: 06-51W-N180 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code		Crop Code		Rating Data Type		Rating Unit		Rating Date		Trt-Eval Interval		CYPES	CYPES	CYPES	CYPES	CYPES
												Control	Control	Control	Presence	Seeding
												Percent	Percent	Percent	Percent	Percent
												7-6-06	10-4-06	10-4-06	10-4-06	10-4-06
												0 DAPO	21 DA-C	EOS	EOS	EOS
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code							
18	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	79	91	96	25	0		
18	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A							
18	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C							
18	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C							
19	HARNESS XTRA	5.6	L	1.68	lb ai/a	1.2	qt/a	PRE	A	84	92	99	0			
19	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C							
19	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C							
20	HARNESS XTRA	5.6	L	2.52	lb ai/a	1.8	qt/a	PRE	A	85	89	98	25	0		
20	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C							
20	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C							
21	HARNESS XTRA	5.6	L	3.36	lb ai/a	2.4	qt/a	PRE	A	83	89	98	13	0		
21	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C							
21	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C							
22	LEXAR	3.7	L	1.57	lb ai/a	1.7	qt/a	PRE	A	86	97	98	25	0		
22	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C							
22	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C							
23	LEXAR	3.7	L	2.22	lb ai/a	2.4	qt/a	PRE	A	91	98	99	0			
23	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C							
23	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C							
24	LEXAR	3.7	L	3.24	lb ai/a	3.5	qt/a	PRE	A	94	98	99	0			
24	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C							
24	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C							
25	NONTREATED									0	0	0	0			
26	WEED FREE									99	99	99	0			
LSD (P=.05)										10.0	6.8	2.6	44.2	17.0		
Replicate F										2.968	6.282	13.360	5.079	0.431		
Replicate Prob(F)										0.0379	0.0007	0.0001	0.0030	0.7338		
Treatment F										30.493	57.495	431.176	1.092	1.334		
Treatment Prob(F)										0.0001	0.0001	0.0001	0.3729	0.2875		

Influence of Residual Herbicides on Weed Spectrum in Glyphosate-Resistant Corn.

Project Code: 06-51W-N180 Location: Belleville Research Center
Investigator: Bryan Young

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
Control Percent	Control Percent	Control Percent	Presence Percent	Seeding Percent		0 DAPO	21 DA-C	EOS	10-4-06 EOS	10-4-06 EOS
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	
1	ROUNDUP W-MAX	4.5 SL		0.75 lb ae/a		21.3 fl oz/a		EPOST B		
1	AMS	100 DRY		2 % w/w		17 lb/100 gal		EPOST B	92	94
1	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		LPOST C	38	67
1	AMS	100 DRY		2 % w/w		17 lb/100 gal		LPOST C		
2	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		LPOST C	89	95
2	AMS	100 DRY		2 % w/w		17 lb/100 gal		LPOST C	13	100
3	AATREX	90 WG		1.0 lb ai/a		1.11 lb/a		PRE A	84	83
3	ROUNDUP W-MAX	4.5 SL		0.75 lb ae/a		21.3 fl oz/a		EPOST B	92	75
3	AMS	100 DRY		2 % w/w		17 lb/100 gal		EPOST B	88	88
4	AATREX	90 WG		1.5 lb ai/a		1.67 lb/a		PRE A	86	83
4	ROUNDUP W-MAX	4.5 SL		0.75 lb ae/a		21.3 fl oz/a		EPOST B	86	88
4	AMS	100 DRY		2 % w/w		17 lb/100 gal		EPOST B	88	90
5	AATREX	90 WG		2.0 lb ai/a		2.22 lb/a		PRE A	86	79
5	ROUNDUP W-MAX	4.5 SL		0.75 lb ae/a		21.3 fl oz/a		EPOST B	90	63
5	AMS	100 DRY		2 % w/w		17 lb/100 gal		EPOST B	94	94
6	AATREX	90 WG		1.0 lb ai/a		1.11 lb/a		PRE A	88	84
6	BALANCE PRO	4 SC		0.047 lb ai/a		1.5 fl oz/a		PRE A	90	63
6	ROUNDUP W-MAX	4.5 SL		0.75 lb ae/a		21.3 fl oz/a		EPOST B	90	63
6	AMS	100 DRY		2 % w/w		17 lb/100 gal		EPOST B	92	92
7	AATREX	90 WG		1.0 lb ai/a		1.11 lb/a		PRE A	88	85
7	PRINCEP	90 WG		1.0 lb ai/a		1.11 lb/a		PRE A	90	50
7	ROUNDUP W-MAX	4.5 SL		0.75 lb ae/a		21.3 fl oz/a		EPOST B	50	50
7	AMS	100 DRY		2 % w/w		17 lb/100 gal		EPOST B		
8	HARNESS XTRA	5.6 L		1.68 lb ai/a		1.2 qt/a		PRE A	85	81
8	ROUNDUP W-MAX	4.5 SL		0.75 lb ae/a		21.3 fl oz/a		EPOST B	90	75
8	AMS	100 DRY		2 % w/w		17 lb/100 gal		EPOST B	100	100
9	HARNESS XTRA	5.6 L		2.52 lb ai/a		1.8 qt/a		PRE A	90	84
9	ROUNDUP W-MAX	4.5 SL		0.75 lb ae/a		21.3 fl oz/a		EPOST B	91	63
9	AMS	100 DRY		2 % w/w		17 lb/100 gal		EPOST B	88	88
10	HARNESS XTRA	5.6 L		3.36 lb ai/a		2.4 qt/a		PRE A	94	84
10	ROUNDUP W-MAX	4.5 SL		0.75 lb ae/a		21.3 fl oz/a		EPOST B	92	63
10	AMS	100 DRY		2 % w/w		17 lb/100 gal		EPOST B	63	69
11	LEXAR	3.7 L		1.57 lb ai/a		1.7 qt/a		PRE A	93	89
11	ROUNDUP W-MAX	4.5 SL		0.75 lb ae/a		21.3 fl oz/a		EPOST B	94	75
11	AMS	100 DRY		2 % w/w		17 lb/100 gal		EPOST B	63	63
12	LEXAR	3.7 L		2.22 lb ai/a		2.4 qt/a		PRE A	95	91
12	ROUNDUP W-MAX	4.5 SL		0.75 lb ae/a		21.3 fl oz/a		EPOST B	95	38
12	AMS	100 DRY		2 % w/w		17 lb/100 gal		EPOST B	88	88
13	LEXAR	3.7 L		3.24 lb ai/a		3.5 qt/a		PRE A	97	95
13	ROUNDUP W-MAX	4.5 SL		0.75 lb ae/a		21.3 fl oz/a		EPOST B	98	25
13	AMS	100 DRY		2 % w/w		17 lb/100 gal		EPOST B	50	50
14	AATREX	90 WG		1.0 lb ai/a		1.11 lb/a		PRE A	63	90
14	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		LPOST C	96	25
14	AMS	100 DRY		2 % w/w		17 lb/100 gal		LPOST C	67	67
15	AATREX	90 WG		1.5 lb ai/a		1.67 lb/a		PRE A	66	91
15	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		LPOST C	97	13
15	AMS	100 DRY		2 % w/w		17 lb/100 gal		LPOST C	100	100
16	AATREX	90 WG		2.0 lb ai/a		2.22 lb/a		PRE A	60	95
16	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		LPOST C	98	38
16	AMS	100 DRY		2 % w/w		17 lb/100 gal		LPOST C	25	25
17	AATREX	90 WG		1.0 lb ai/a		1.11 lb/a		PRE A	79	93
17	BALANCE PRO	4 SC		0.047 lb ai/a		1.5 fl oz/a		PRE A	96	25
17	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		LPOST C	96	25
17	AMS	100 DRY		2 % w/w		17 lb/100 gal		LPOST C	50	50

Influence of Residual Herbicides on Weed Spectrum in Glyphosate-Resistant Corn.

Project Code: 06-51W-N180 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
Crop Code					
Rating Data Type	Control	Control	Control	Presence	Seeding
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date		7-6-06	10-4-06	10-4-06	10-4-06
Trt-Eval Interval	0 DAPO	21 DA-C	EOS	EOS	EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
18	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	79	93	96	25	100
18	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A					
18	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
18	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
19	HARNESS XTRA	5.6	L	1.68	lb ai/a	1.2	qt/a	PRE	A	66	91	98	0	
19	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
19	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
20	HARNESS XTRA	5.6	L	2.52	lb ai/a	1.8	qt/a	PRE	A	68	92	98	13	0
20	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
20	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
21	HARNESS XTRA	5.6	L	3.36	lb ai/a	2.4	qt/a	PRE	A	79	95	97	0	
21	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
21	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
22	LEXAR	3.7	L	1.57	lb ai/a	1.7	qt/a	PRE	A	80	93	98	25	100
22	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
22	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
23	LEXAR	3.7	L	2.22	lb ai/a	2.4	qt/a	PRE	A	84	96	97	13	0
23	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
23	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
24	LEXAR	3.7	L	3.24	lb ai/a	3.5	qt/a	PRE	A	93	97	99	13	0
24	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
24	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
25	NONTREATED									0	0	0	100	100
26	WEED FREE									99	99	99	0	
LSD (P=.05)										11.6	4.8	3.0	40.8	51.5
Replicate F										3.481	2.648	9.034	0.800	0.251
Replicate Prob(F)										0.0204	0.0550	0.0001	0.4980	0.8601
Treatment F										24.288	116.234	322.320	4.108	3.675
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0003

Influence of Residual Herbicides on Weed Spectrum in Glyphosate-Resistant Corn.

Project Code: 06-51W-N180 Location: Belleville Research Center
Investigator: Bryan Young

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	Control Percent	Control Percent	Control Percent	Presence Percent	Seeding Percent
										0 DAPO	21 DA-C	EOS	10-4-06 EOS	10-4-06 EOS
1	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B		97	99	0	
1	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
1	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
1	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C		92	99	0	
2	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
3	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	84	92	99	0	
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
3	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
4	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A	81	93	99	0	
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
4	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
5	AATREX	90	WG	2.0	lb ai/a	2.22	lb/a	PRE	A	84	92	99	0	
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
5	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
6	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	95	95	99	0	
6	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A					
6	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
6	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
7	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	88	95	99	0	
7	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A					
7	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
7	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
8	HARNESS XTRA	5.6	L	1.68	lb ai/a	1.2	qt/a	PRE	A	83	96	99	0	
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
8	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
9	HARNESS XTRA	5.6	L	2.52	lb ai/a	1.8	qt/a	PRE	A	89	96	99	0	
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
9	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
10	HARNESS XTRA	5.6	L	3.36	lb ai/a	2.4	qt/a	PRE	A	91	97	99	0	
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
10	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
11	LEXAR	3.7	L	1.57	lb ai/a	1.7	qt/a	PRE	A	95	96	99	0	
11	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
11	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
12	LEXAR	3.7	L	2.22	lb ai/a	2.4	qt/a	PRE	A	98	98	99	0	
12	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
12	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
13	LEXAR	3.7	L	3.24	lb ai/a	3.5	qt/a	PRE	A	99	99	99	0	
13	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
13	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
14	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	65	95	99	0	
14	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
14	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
15	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A	70	96	99	0	
15	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
15	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
16	AATREX	90	WG	2.0	lb ai/a	2.22	lb/a	PRE	A	68	97	99	0	
16	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
16	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
17	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	88	96	99	0	
17	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A					
17	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
17	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					

Influence of Residual Herbicides on Weed Spectrum in Glyphosate-Resistant Corn.

Project Code: 06-51W-N180 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code									ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Crop Code									Control	Control	Control	Presence	Seeding
Rating Data Type									Percent	Percent	Percent	Percent	Percent
Rating Unit									7-6-06	10-4-06	10-4-06	10-4-06	10-4-06
Rating Date									0 DAPO	21 DA-C	EOS	EOS	EOS
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
18	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	73	97	99	0
18	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A				
18	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
18	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
19	HARNESS XTRA	5.6	L	1.68	lb ai/a	1.2	qt/a	PRE	A	73	98	99	0
19	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
19	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
20	HARNESS XTRA	5.6	L	2.52	lb ai/a	1.8	qt/a	PRE	A	73	95	99	0
20	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
20	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
21	HARNESS XTRA	5.6	L	3.36	lb ai/a	2.4	qt/a	PRE	A	79	97	99	0
21	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
21	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
22	LEXAR	3.7	L	1.57	lb ai/a	1.7	qt/a	PRE	A	89	97	99	0
22	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
22	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
23	LEXAR	3.7	L	2.22	lb ai/a	2.4	qt/a	PRE	A	95	97	99	0
23	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
23	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
24	LEXAR	3.7	L	3.24	lb ai/a	3.5	qt/a	PRE	A	99	99	99	0
24	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
24	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
25	NONTREATED									0	0	0	0
26	WEED FREE									99	99	99	0
	LSD (P=.05)									10.0	3.7	0.0	0.0
	Replicate F									9.787	0.273	0.000	0.000
	Replicate Prob(F)									0.0001	0.8450	1.0000	1.0000
	Treatment F									32.943	210.457	0.000	0.000
	Treatment Prob(F)									0.0001	0.0001	1.0000	1.0000

Influence of Residual Herbicides on Weed Spectrum in Glyphosate-Resistant Corn.

Project Code: 06-51W-N180 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code										AMATA	AMATA	AMATA	AMATA	AMATA
Crop Code										Control	Control	Control	Presence	Seeding
Rating Data Type										Percent	Percent	Percent	Percent	Percent
Rating Unit											7-6-06	10-4-06	10-4-06	10-4-06
Rating Date														
Trt-Eval Interval										0 DAPO	21 DA-C	EOS	EOS	EOS
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B		99	99	0	.
1	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
1	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
1	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C		99	99	0	.
2	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
3	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	95	97	99	0	.
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
3	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
4	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A	98	97	99	0	.
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
4	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
5	AATREX	90	WG	2.0	lb ai/a	2.22	lb/a	PRE	A	98	99	99	0	.
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
5	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
6	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	99	99	99	0	.
6	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A					
6	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
6	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
7	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	98	99	99	0	.
7	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A					
7	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
7	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
8	HARNESS XTRA	5.6	L	1.68	lb ai/a	1.2	qt/a	PRE	A	98	99	99	0	.
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
8	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
9	HARNESS XTRA	5.6	L	2.52	lb ai/a	1.8	qt/a	PRE	A	98	99	99	0	.
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
9	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
10	HARNESS XTRA	5.6	L	3.36	lb ai/a	2.4	qt/a	PRE	A	99	99	99	0	.
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
10	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
11	LEXAR	3.7	L	1.57	lb ai/a	1.7	qt/a	PRE	A	99	99	99	0	.
11	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
11	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
12	LEXAR	3.7	L	2.22	lb ai/a	2.4	qt/a	PRE	A	99	99	99	0	.
12	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
12	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
13	LEXAR	3.7	L	3.24	lb ai/a	3.5	qt/a	PRE	A	99	99	99	0	.
13	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
13	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
14	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	96	99	99	0	.
14	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
14	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
15	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A	98	99	99	0	.
15	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
15	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
16	AATREX	90	WG	2.0	lb ai/a	2.22	lb/a	PRE	A	98	99	99	0	.
16	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
16	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
17	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	98	99	99	0	.
17	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A					
17	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
17	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					

Influence of Residual Herbicides on Weed Spectrum in Glyphosate-Resistant Corn.

Project Code: 06-51W-N180 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code									AMATA	AMATA	AMATA	AMATA	AMATA
Crop Code									Control	Control	Control	Presence	Seeding
Rating Data Type									Percent	Percent	Percent	Percent	Percent
Rating Unit									7-6-06	10-4-06	10-4-06	10-4-06	10-4-06
Rating Date									0 DAPO	21 DA-C	EOS	EOS	EOS
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
18	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	94	99	99	0
18	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A				
18	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
18	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
19	HARNESS XTRA	5.6	L	1.68	lb ai/a	1.2	qt/a	PRE	A	99	99	99	0
19	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
19	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
20	HARNESS XTRA	5.6	L	2.52	lb ai/a	1.8	qt/a	PRE	A	98	99	99	0
20	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
20	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
21	HARNESS XTRA	5.6	L	3.36	lb ai/a	2.4	qt/a	PRE	A	99	99	99	0
21	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
21	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
22	LEXAR	3.7	L	1.57	lb ai/a	1.7	qt/a	PRE	A	99	99	99	0
22	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
22	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
23	LEXAR	3.7	L	2.22	lb ai/a	2.4	qt/a	PRE	A	99	99	99	0
23	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
23	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
24	LEXAR	3.7	L	3.24	lb ai/a	3.5	qt/a	PRE	A	99	99	99	0
24	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C				
24	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C				
25	NONTREATED									0	0	0	13
26	WEED FREE									99	99	99	0
	LSD (P=.05)									2.0	1.3	0.0	6.9
	Replicate F									1.574	2.035	0.000	1.000
	Replicate Prob(F)									0.2036	0.1161	1.0000	0.3977
	Treatment F									776.094	1729.598	0.000	1.000
	Treatment Prob(F)									0.0001	0.0001	1.0000	0.4782

Influence of Residual Herbicides on Weed Spectrum in Glyphosate-Resistant Corn.

Project Code: 06-51W-N180 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code								PANDI	PANDI	PANDI	PANDI	PANDI	CHEAL	CHEAL
Crop Code								Control	Control	Control	Presence	Seeding	Presence	Seeding
Rating Data Type								Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit								7-6-06	10-4-06	10-4-06	10-4-06	10-4-06	10-4-06	10-4-06
Rating Date								EOS	EOS	EOS	EOS	EOS	EOS	EOS
Trt-Eval Interval								0 DAPO	21 DA-C	EOS	EOS	EOS	EOS	EOS
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
1	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B	96	99	13	100	0
1	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
1	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C	99	99	13	100	0
2	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
3	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	90	96	25	100	0
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
3	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
4	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A	93	95	0		0
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
4	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
5	AATREX	90	WG	2.0	lb ai/a	2.22	lb/a	PRE	A	93	93	25	100	0
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
5	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
6	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	95	97	0		0
6	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A					
6	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
6	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
7	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	92	96	13	100	0
7	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A					
7	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
7	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
8	HARNESS XTRA	5.6	L	1.68	lb ai/a	1.2	qt/a	PRE	A	96	99	0		0
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
8	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
9	HARNESS XTRA	5.6	L	2.52	lb ai/a	1.8	qt/a	PRE	A	98	99	0		0
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
9	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
10	HARNESS XTRA	5.6	L	3.36	lb ai/a	2.4	qt/a	PRE	A	99	99	0		0
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
10	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
11	LEXAR	3.7	L	1.57	lb ai/a	1.7	qt/a	PRE	A	99	99	0		0
11	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
11	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
12	LEXAR	3.7	L	2.22	lb ai/a	2.4	qt/a	PRE	A	99	99	0		0
12	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
12	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
13	LEXAR	3.7	L	3.24	lb ai/a	3.5	qt/a	PRE	A	99	99	0		0
13	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					
13	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					
14	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	80	99	99	0	0
14	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
14	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
15	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A	79	99	99	0	0
15	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
15	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
16	AATREX	90	WG	2.0	lb ai/a	2.22	lb/a	PRE	A	84	99	99	0	0
16	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
16	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
17	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	88	99	99	0	0
17	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A					
17	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
17	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					

Influence of Residual Herbicides on Weed Spectrum in Glyphosate-Resistant Corn.

Project Code: 06-51W-N180 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code								PANDI	PANDI	PANDI	PANDI	PANDI	CHEAL	CHEAL
Crop Code								Control	Control	Control	Presence	Seeding	Presence	Seeding
Rating Data Type								Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit								7-6-06	10-4-06	10-4-06	10-4-06	10-4-06	10-4-06	10-4-06
Rating Date								EOS	EOS	EOS	EOS	EOS	EOS	EOS
Trt-Eval Interval								0 DAPO	21 DA-C	EOS	EOS	EOS	EOS	EOS
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
18	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	79	99	99	0	0
18	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A					
18	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
18	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
19	HARNESS XTRA	5.6	L	1.68	lb ai/a	1.2	qt/a	PRE	A	96	99	99	0	0
19	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
19	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
20	HARNESS XTRA	5.6	L	2.52	lb ai/a	1.8	qt/a	PRE	A	92	99	99	0	0
20	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
20	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
21	HARNESS XTRA	5.6	L	3.36	lb ai/a	2.4	qt/a	PRE	A	98	99	99	0	0
21	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
21	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
22	LEXAR	3.7	L	1.57	lb ai/a	1.7	qt/a	PRE	A	95	99	99	0	0
22	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
22	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
23	LEXAR	3.7	L	2.22	lb ai/a	2.4	qt/a	PRE	A	96	99	99	0	0
23	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
23	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
24	LEXAR	3.7	L	3.24	lb ai/a	3.5	qt/a	PRE	A	97	99	99	0	0
24	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					
24	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					
25	NONTREATED									0	0	0	0	0
26	WEED FREE									99	99	99	0	0
	LSD (P=.05)									6.2	2.9	1.9	19.9	0.0
	Replicate F									6.677	3.392	3.333	1.423	0.000
	Replicate Prob(F)									0.0011	0.0222	0.0239	0.2428	1.0000
	Treatment F									143.669	350.440	785.934	1.156	0.000
	Treatment Prob(F)									0.0001	0.0001	0.0001	0.3080	1.0000

Influence of Residual Herbicides on Weed Spectrum in Glyphosate-Resistant Corn.

Project Code: 06-51W-N180 Location: Belleville Research Center
 Investigator: Bryan Young

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	IPOSS	
										Presence Percent 10-4-06 EOS	Seeding Percent 10-4-06 EOS
1	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B	13	100
1	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B		
1	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C		
1	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C		
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C	0	
2	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C		
3	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	0	
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B		
3	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B		
4	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A	25	50
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B		
4	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B		
5	AATREX	90	WG	2.0	lb ai/a	2.22	lb/a	PRE	A	0	
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B		
5	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B		
6	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	0	
6	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A		
6	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B		
6	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B		
7	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	13	100
7	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A		
7	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B		
7	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B		
8	HARNESS XTRA	5.6	L	1.68	lb ai/a	1.2	qt/a	PRE	A	0	
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B		
8	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B		
9	HARNESS XTRA	5.6	L	2.52	lb ai/a	1.8	qt/a	PRE	A	0	
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B		
9	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B		
10	HARNESS XTRA	5.6	L	3.36	lb ai/a	2.4	qt/a	PRE	A	13	0
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B		
10	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B		
11	LEXAR	3.7	L	1.57	lb ai/a	1.7	qt/a	PRE	A	0	
11	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B		
11	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B		
12	LEXAR	3.7	L	2.22	lb ai/a	2.4	qt/a	PRE	A	0	
12	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B		
12	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B		
13	LEXAR	3.7	L	3.24	lb ai/a	3.5	qt/a	PRE	A	13	100
13	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B		
13	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B		
14	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	0	
14	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C		
14	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C		
15	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A	0	
15	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C		
15	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C		
16	AATREX	90	WG	2.0	lb ai/a	2.22	lb/a	PRE	A	25	0
16	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C		
16	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C		
17	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	38	75
17	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A		
17	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C		
17	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C		

Influence of Residual Herbicides on Weed Spectrum in Glyphosate-Resistant Corn.

Project Code: 06-51W-N180 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	IPOSS					
						Presence Percent	Seeding Percent				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	10-4-06 EOS	10-4-06 EOS
18	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	0	
18	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A		
18	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C		
18	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C		
19	HARNESS XTRA	5.6	L	1.68	lb ai/a	1.2	qt/a	PRE	A	0	
19	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C		
19	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C		
20	HARNESS XTRA	5.6	L	2.52	lb ai/a	1.8	qt/a	PRE	A	0	
20	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C		
20	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C		
21	HARNESS XTRA	5.6	L	3.36	lb ai/a	2.4	qt/a	PRE	A	0	
21	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C		
21	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C		
22	LEXAR	3.7	L	1.57	lb ai/a	1.7	qt/a	PRE	A	25	0
22	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C		
22	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C		
23	LEXAR	3.7	L	2.22	lb ai/a	2.4	qt/a	PRE	A	25	50
23	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C		
23	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C		
24	LEXAR	3.7	L	3.24	lb ai/a	3.5	qt/a	PRE	A	0	
24	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C		
24	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C		
25	NONTREATED									0	
26	WEED FREE									0	
LSD (P=.05)										24.8	218.1
Replicate F										1.324	0.063
Replicate Prob(F)										0.2729	0.9746
Treatment F										1.648	1.514
Treatment Prob(F)										0.0511	0.4575

Trial Comments

1. Protocol: SIU.

2. Ratings:

At each POST timing (just for plots being treated and the nontreated and weed-free) - crop injury and visual weed control; also weed counts at two locations in each plot and count weeds by species and the number in various size categories 0-3", 3-6", 6-9", 9-12", etc.

At 21 d after the last post treatment – crop injury and visual weed control

At harvest – visual weed control and weed counts as described above

3. Yield.

4. Entire area is tilled 14 days prior to planting and again prior to PRE if there are emerged weeds.

5. EPOST and LPOST could be applied using a 2.5 gallon spray tank, but must be a 7.5 ft boom, and skip the nontreateds.

6. Weedfree plots can be multiple glyphosate applications as needed.

7. DAPO = Days after postemergence application.

Ratings at 0 DAPO were at the postemergence application.

DA-C = Days after LPOST (last) application. EOS = End of season.

Presence = The percentage of the eight sample points (4 reps x 2 samples/rep) in which the weed was present.

Seeding = The percentage of the weeds present which were seeding.

8. For SETFA and PANDI at 0 DAPO, not able to distinguish PANDI from SETFA as both were very small.

9. For weed counts, see 06-51W-N180-Counts.

10. Harvested 10-6-06, (2) 30 inch rows by 24 ft.