

1-25-08 (07-52-MW130)

Southern Illinois University

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

Project Code: 07-52-MW130 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: 1-23-08

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. PANDI	panicum, fall	Panicum dichotomiflorum Michx.
3. CYPES	nutsedge, yellow	Cyperus esculentus L.
4. AMBTR	ragweed, giant	Ambrosia trifida L.
5. ABUTH	velvetleaf	Abutilon theophrasti Medicus
6. AMATA	waterhemp, common	Amaranthus rudis Sauer
7. XANST	cocklebur, common	Xanthium strumarium L.
8. IPOSS	morningglory, species	Ipomoea sp.

Crop 1:	ZEAMX corn, field	Variety:	33K44
Planting Method:	Seeded	Planting Date:	5-21-07
Rate:	28000 S/A	Depth:	1.5 IN
Row Spacing:	30 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	25 FT	Reps:	4
Tillage Type:	Reduced-Till	Study Design:	Randomized complete block		
Previous Crop, Year:	GLXMA, 2006				
Field Prep./Maintenance:	N 150 LB/A, P2O5 0 LB/A, K2O 0 LB/A				

Soil Name:	Weir	% OM:	2	pH:	6.9	CEC:	9
Texture:	Silt loam	Fert. Level:	P1: 131 LB/A, K: 401 LB/A				

APPLICATION DESCRIPTION

	A	B	C
Application Date:	5-22-07	6-11-07	6-20-07
Time of Day:	6:00	14:30	8:30
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	EPOST	LPOST
Applic. Placement:	BROSOI	BROSOI	BROSOI
Air Temp., Unit:	68 F	84 F	70 F
% Relative Humidity:	80	50	70
Wind Velocity, Unit:	0-1 MPH	2-4 MPH	0-1 MPH
Dew Presence (Y/N):	N	N	N
Soil Moisture:	NORMAL	NORMAL	NORMAL
% Cloud Cover:	80	10	20

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX V4	ZEAMX V6-V7
Height, Unit:	NA NA	14-15 IN	24-26 IN

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code:	SETFA	SETFA	SETFA
Stage(leaves):	3-8	3-10	3-10
Height(inches):	2-4	2-12	2-12
Density:	Medium	Medium	Medium
Weed 2 Code:	PANDI	PANDI	PANDI
Stage(leaves):	2-6	2-10	2-10
Height(inches):	2-4	2-10	2-10
Density:	Low	Medium	Medium
Weed 3 Code:	CYPES	CYPES	CYPES
Stage(leaves):	6-10	8-12	8-12
Height(inches):	1-4	3-6	3-6
Density:	Medium	Medium	Medium
Weed 4 Code:	AMBTR	AMBTR	AMBTR
Stage(leaves):	4-6	4-10	4-10
Height(inches):	2-6	2-15	2-15
Density:	High	High	High
Weed 5 Code:	ABUTH	ABUTH	ABUTH
Stage(leaves):	2-5	2-8	2-8
Height(inches):	2-5	2-12	2-12
Density:	High	High	High
Weed 6 Code:	AMATA	AMATA	AMATA
Stage(leaves):	2-4	4-10	4-10
Height(inches):	0-1.5	1-6	1-6
Density:	Low	Medium	Medium

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Weed 7 Code:	XANST	XANST
Stage(leaves):	4-6	4-8
Height(inches):	2-4	2-8
Density:	Low	Medium

Weed 8 Code:	IPOSS	IPOSS
Stage(leaves):	2-5	2-6
Height(inches):	1-3	2-4
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:	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

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Moisture	Yield	Injury	Injury	Injury
Percent	bu/A	Percent	Percent	Percent
10-1-07	10-1-07		7-11-07	9-27-07
		@ Post	21 DA-C	EOS

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	16.1	abc	202	ab	0	a
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	16.3	abc	187	b	0	a
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	bc	201	ab	0	a
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	16.9	a	206	ab	0	a
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	16.1	abc	207	ab	0	a
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	16.3	abc	206	ab	0	a
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	15.9	abc	202	ab	0	a
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	16.4	abc	202	ab	0	a
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	15.4	bc	207	ab	0	a
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	16.3	abc	195	ab	0	a
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	15.2	c	195	ab	0	a
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	16.2	abc	188	b	0	a
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	16.0	abc	196	ab	0	a
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	16.5	ab	214	a	0	a
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	16.1	abc	205	ab	0	a
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	15.9	abc	202	ab	0	a
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	15.7	abc	205	ab	0	a
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 Data Type

Rating Unit

Rating Date

Trt-Eval Interval

ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Moisture	Yield	Injury	Injury	Injury
Percent	bu/A	Percent	Percent	Percent
10-1-07	10-1-07		7-11-07	9-27-07
		@ Post	21 DA-C	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	15.8	abc	196	ab	0 a
18	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A					0 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	15.6	bc	204	ab	0 a
19	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					0 a
19	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					0 a
20	HARNESS XTRA	5.6	L	2.52	lb ai/a	1.8	qt/a	PRE	A	16.1	abc	205	ab	0 a
20	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					0 a
20	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					0 a
21	HARNESS XTRA	5.6	L	3.36	lb ai/a	2.4	qt/a	PRE	A	16.2	abc	208	ab	0 a
21	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					0 a
21	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					0 a
22	LEXAR	3.7	L	1.57	lb ai/a	1.7	qt/a	PRE	A	16.0	abc	197	ab	0 a
22	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					0 a
22	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					0 a
23	LEXAR	3.7	L	2.22	lb ai/a	2.4	qt/a	PRE	A	16.0	abc	204	ab	0 a
23	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					0 a
23	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					0 a
24	LEXAR	3.7	L	3.24	lb ai/a	3.5	qt/a	PRE	A	16.0	abc	205	ab	0 a
24	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					0 a
24	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					0 a
25	NONTREATED									15.7	bc	70	c	0 a
26	WEED FREE									15.8	abc	203	ab	0 a
27	Treatment 1 @ LPOST													0 a
LSD (P=.05)										1.15		21.2		0.0
Replicate F										2.048		4.257		0.000
Replicate Prob(F)										0.1143		0.0078		1.0000
Treatment F										0.723		12.568		0.000
Treatment Prob(F)										0.8169		0.0001		1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)

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Rating Date

Trt-Eval Interval

									SETFA	SETFA	SETFA	SETFA	SETFA
									Control	Control	Control	Plants	Seeding
									Percent	Percent	Percent	0.5m2	Percent
									@ Post	7-11-07	9-27-07	9-27-07	9-27-07
										21 DA-C	EOS	EOS	EOS
Trt	Treatment	Form	Form	Rate	Rate	Prod	Prod	Grow	Appl				
No.	Name	Conc	Type	Unit	Unit	Rate	Unit	Stg	Code				
1	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	EPOST	B			0 h	91 e	96 ef	1.1 bcd 33 a-d
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 h	90 e	94 g	2.5 a 63 a
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			81 g	91 e	95 fg	0.6 bcd 25 bcd
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			89 de	91 e	96 fg	1.8 ab 63 a
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			94 c	93 d	95 fg	1.8 ab 35 abc
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			97 ab	94 cd	97 cd	0.5 bcd 13 cd
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			96 bc	95 bcd	97 de	0.4 cd 13 cd
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			99 a	98 a	98 a-d	0.1 d 13 cd
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			99 a	99 a	98 a-d	0.4 cd 13 cd
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 a	99 a	99 ab	0.3 cd 13 cd
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 a	99 a	99 a	0.0 d 0 d
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 a	99 a	99 ab	0.0 d 0 d
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 a	99 a	99 abc	0.3 cd 25 bcd
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			85 f	93 d	95 fg	0.5 bcd 25 bcd
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			86 ef	95 bcd	97 de	0.9 bcd 50 ab
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			90 d	95 bc	96 ef	1.5 abc 38 abc
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			95 c	96 b	98 a-d	0.3 cd 6 cd
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 Date

Trt-Eval Interval

SETFA SETFA SETFA SETFA SETFA

Control Control Control Plants Seeding
Percent Percent Percent 0.5m2 Percent
7-11-07 9-27-07 9-27-07 9-27-07

@ Post 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	94	c	94	cd	98 bcd 0.5 bcd 25 bcd
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	a	99	a	99 ab 0.1 d 13 cd
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	99	a	99	a	99 a 0.0 d 0 d
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	a	99	a	99 a 0.0 d 0 d
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	a	99	a	99 a 0.0 d 0 d
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	a	99	a	99 a 0.0 d 0 d
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	a	99	a	99 a 0.0 d 0 d
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	h	0	f	0 h 0.0 d 0 d
26	WEED FREE									99	a	99	a	99 a 0.0 d 0 d
27	Treatment 1 @ LPOST									99	a			
LSD (P=.05)										2.7		1.6		1.4 1.29 34.7
Replicate F										0.620		2.703		1.125 2.998 2.490
Replicate Prob(F)										0.6041		0.0515		0.3445 0.0359 0.0667
Treatment F										1021.417		1184.307		1450.920 2.206 2.473
Treatment Prob(F)										0.0001		0.0001		0.0001 0.0046 0.0014

Means followed by same letter do not significantly differ (P=.05, LSD)

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

Project Code: 07-52-MW130

Location: Belleville Research Center

Investigator: Bryan Young

Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

PANDI	PANDI	PANDI	PANDI	PANDI
Control	Control	Control	Plants	Seeding
Percent	Percent	Percent	0.5m2	Percent
@ Post	7-11-07	9-27-07	9-27-07	9-27-07
	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					
1	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B	0 h	94 d	98 bcd	1.1 a	16 cd
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 h	91 e	95 f	0.6 abc	38 ab
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 fg	94 cd	96 f	0.8 ab	50 a
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	87 e	94 cd	97 e	0.3 bc	25 bc
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	94 c	96 b	97 de	0.0 c	0 d
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	97 ab	96 b	98 abc	0.0 c	0 d
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	97 b	96 b	99 ab	0.0 c	0 d
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	99 ab	98 a	99 abc	0.5 abc	13 cd
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	99 a	99 a	99 a	0.1 bc	0 d
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 a	99 a	99 a	0.0 c	0 d
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 ab	99 a	99 a	0.0 c	0 d
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 a	99 a	99 a	0.0 c	0 d
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 a	99 a	99 ab	0.3 bc	6 cd
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	76 g	95 bc	98 cde	0.1 bc	0 d
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	80 f	96 b	98 bcd	0.0 c	0 d
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	86 e	96 b	99 abc	0.3 bc	13 cd
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	93 c	96 b	99 a	0.0 c	0 d
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: 07-52-MW130

Location: Belleville Research Center

Investigator: Bryan Young

Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

PANDI	PANDI	PANDI	PANDI	PANDI
Control	Control	Control	Plants	Seeding
Percent	Percent	Percent	0.5m2	Percent
@ Post	7-11-07	9-27-07	9-27-07	9-27-07
	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	90 d	96 b	99 a	0.0 c	0 d
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 ab	99 a	99 a	0.0 c	0 d
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	97 ab	99 a	99 a	0.0 c	0 d
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 ab	99 a	99 a	0.0 c	0 d
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	98 ab	99 a	99 a	0.0 c	0 d
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 ab	99 a	99 a	0.0 c	0 d
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 ab	99 a	99 a	0.0 c	0 d
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 h	0 f	0 g	0.0 c	0 d
26	WEED FREE									99 a	99 a	99 a	0.0 c	0 d
27	Treatment 1 @ LPOST									99 a				
LSD (P=.05)										2.4	1.4	0.9	0.72	20.1
Replicate F										2.265	6.141	1.239	0.296	0.186
Replicate Prob(F)										0.0875	0.0009	0.3015	0.8285	0.9057
Treatment F										1342.210	1520.303	4121.533	1.274	3.285
Treatment Prob(F)										0.0001	0.0001	0.0001	0.2101	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

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

Project Code: 07-52-MW130

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 Plants Seeding

Percent Percent Percent 0.5m2 Percent

@ Post 21 DA-C 7-11-07 9-27-07 9-27-07

EOS EOS EOS

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	0 j	94	efg	96 fgh	0.9 bc
1	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPOST	B					0 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 j	88	i	95 h	0.4 bc
2	AMS	100	DRY	2	% w/w	17	lb/100 gal	LPOST	C					0 b
3	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	84	gh	90 hi	98 a-e	0.9 bc
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					0 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	88	fgh	93 fgh	98 a-e	0.5 bc
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					0 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	89	d-g	95 d-g	97 d-g	0.5 bc
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					0 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	93	b-f	95 c-g	97 c-f	0.6 bc
6	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A					0 b
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	94	a-e	97 a-e	98 a-e	0.6 bc
7	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A					0 b
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	ab	96 a-f	98 b-f	0.4 bc
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					0 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	95	abc	96 b-f	96 gh	1.3 b
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					6 a
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	97	ab	96 a-f	98 a-e	0.3 bc
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					0 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	96	ab	99 ab	98 a-e	0.4 bc
11	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					0 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	ab	99 ab	99 a	0.0 c
12	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					0 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	a	99 ab	99 a	0.0 c
13	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B					0 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	i	92 gh	98 a-d	0.6 bc
14	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					0 b
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	83	h	95 c-g	98 a-e	0.5 bc
15	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					0 b
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	gh	95 b-g	99 abc	0.5 bc
16	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	LPOST	C					0 b
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	90	c-f	96 a-e	98 a-e	0.4 bc
17	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A					0 b
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: 07-52-MW130

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 Plants Seeding
Percent Percent Percent 0.5m2 Percent
7-11-07 9-27-07 9-27-07 9-27-07

@ Post 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	88 e-h	94 efg	97 efg	2.5 a	0 b
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	95 a-d	96 a-e	98 b-f	0.0 c	0 b
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	93 a-f	98 a-d	99 ab	0.3 bc	0 b
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	96 abc	98 abc	99 abc	0.4 bc	0 b
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 ab	99 ab	99 abc	0.1 bc	0 b
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 a	99 a	99 a	0.0 c	0 b
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 ab	99 a	99 a	0.0 c	0 b
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 j	0 j	0 i	0.0 c	0 b
26	WEED FREE									99 a	99 a	99 a	0.0 c	0 b
27	Treatment 1 @ LPOST									99 a				
LSD (P=.05)										5.9	3.4	1.3	1.21	3.5
Replicate F										0.473	1.332	1.830	2.368	1.000
Replicate Prob(F)										0.7019	0.2703	0.1490	0.0774	0.3977
Treatment F										209.995	245.963	1685.547	1.511	1.000
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0883	0.4782

Means followed by same letter do not significantly differ (P=.05, LSD)

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

Project Code: 07-52-MW130

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 Control Control Plants Seeding

Percent Percent Percent 0.5m2 Percent

@ Post 21 DA-C 9-27-07 9-27-07

EOS EOS EOS

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	0 j	94 ef	96 f	0.6 bc	25 bc
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 j	81 g	93 g	0.3 bcd	25 bc
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	81 h	93 f	97 def	0.4 bcd	6 c
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	90 f	95 def	98 b-e	0.5 bcd	38 b
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	91 ef	97 a-d	97 def	0.4 bcd	25 bc
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	94 cd	97 a-e	97 cde	0.1 cd	13 bc
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	96 bc	95 c-f	97 cde	0.1 cd	0 c
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	91 f	95 c-f	96 ef	0.3 bcd	25 bc
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 cd	98 abc	97 def	0.1 cd	13 bc
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	94 cde	97 a-e	97 def	0.8 b	25 bc
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 cd	98 abc	99 a	0.0 d	0 c
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	96 bc	98 ab	99 ab	0.1 cd	13 bc
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	98 ab	99 a	99 a	0.0 d	0 c
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	78 i	95 def	98 a-d	0.4 bcd	0 c
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	82 h	96 b-e	99 abc	0.3 bcd	13 bc
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	86 g	96 b-e	98 a-d	0.1 cd	0 c
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 def	98 abc	99 ab	0.0 d	0 c
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: 07-52-MW130

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 Control Control Plants Seeding

Percent Percent Percent 0.5m2 Percent

@ Post 21 DA-C 9-27-07 9-27-07

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	87 g	96 a-e	99 a	0.0 d	0 c
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	87 g	97 a-e	99 ab	0.0 d	0 c
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	90 f	98 abc	99 ab	0.1 cd	13 bc
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	94 cd	98 ab	99 a	0.0 d	0 c
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 bc	97 a-d	99 abc	0.3 bcd	0 c
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 abc	98 ab	99 ab	0.1 cd	13 bc
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 ab	99 a	99 a	0.0 d	0 c
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 j	0 h	0 h	10.1 a	100 a
26	WEED FREE									99 a	99 a	99 a	0.0 d	0 c
27	Treatment 1 @ LPOST									98 ab				
LSD (P=.05)										2.9	2.8	1.3	0.56	25.8
Replicate F										7.884	1.236	5.331	0.785	1.075
Replicate Prob(F)										0.0001	0.3028	0.0022	0.5059	0.3649
Treatment F										831.193	380.700	1838.286	98.856	5.258
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

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

Project Code: 07-52-MW130

Location: Belleville Research Center

Investigator: Bryan Young

Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

ABUTH ABUTH ABUTH ABUTH ABUTH

Control Control Control Plants Seeding

Percent Percent Percent 0.5m2 Percent

@ Post 21 DA-C 9-27-07 9-27-07 9-27-07

EOS EOS EOS

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	0	k	94	fgh	99	a	0.0	b	0	b
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	k	90	i	98	b	0.1	a	13	a
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	81	i	91	i	99	a	0.1	a	0	b
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	92	fgh	95	fg	99	a	0.0	b	0	b
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	94	c-h	96	b-f	99	a	0.0	b	0	b
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	96	a-e	98	a-d	99	a	0.0	b	0	b
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	96	a-d	94	fgh	99	a	0.1	a	0	b
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	95	b-g	93	ghi	99	a	0.0	b	0	b
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	c-h	96	def	99	a	0.0	b	0	b
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	97	abc	96	def	99	a	0.0	b	0	b
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	ab	98	abc	99	a	0.0	b	0	b
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	ab	99	a	99	a	0.0	b	0	b
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	98	ab	99	ab	99	a	0.0	b	0	b
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	70	j	91	hi	99	a	0.0	b	0	b
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	i	94	fgh	99	a	0.0	b	0	b
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	91	gh	96	c-f	99	a	0.0	b	0	b
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	95	a-f	99	ab	99	a	0.0	b	0	b
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: 07-52-MW130

Location: Belleville Research Center

Investigator: Bryan Young

Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

ABUTH ABUTH ABUTH ABUTH ABUTH

Control Control Control Plants Seeding
Percent Percent Percent 0.5m2 Percent
7-11-07 9-27-07 9-27-07 9-27-07

@ Post 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	93	d-h	96	c-f	99 a 0.0 b 0 b
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	91	h	95	efg	99 a 0.0 b 0 b
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	e-h	97	a-e	99 a 0.0 b 0 b
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	94	c-h	98	a-d	99 a 0.0 b 0 b
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	97	abc	99	a	99 a 0.0 b 0 b
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	ab	99	a	99 a 0.0 b 0 b
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	a	99	a	99 a 0.0 b 0 b
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	k	0	j	0 c 0.0 b 0 b
26	WEED FREE									99	a	99	a	99 a 0.0 b 0 b
27	Treatment 1 @ LPOST									98	ab			
LSD (P=.05)										3.9		2.6		0.6 0.12 6.9
Replicate F										4.290		2.193		1.253 0.325 1.000
Replicate Prob(F)										0.0074		0.0958		0.2965 0.8075 0.3977
Treatment F										478.934		419.659		8178.511 0.896 1.000
Treatment Prob(F)										0.0001		0.0001		0.0001 0.6088 0.4782

Means followed by same letter do not significantly differ (P=.05, LSD)

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

Project Code: 07-52-MW130

Location: Belleville Research Center

Investigator: Bryan Young

Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

AMATA

AMATA

AMATA

AMATA

AMATA

Control
PercentControl
PercentControl
PercentPlants
0.5m2Seeding
Percent

@ Post

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					
1	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B	0 c	99 a	99 a	0.1 b	0 b
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 c	99 a	98 b	0.0 b	0 b
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 b	99 a	99 a	0.0 b	0 b
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	99 a	99 b	99 a	0.0 b	0 b
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	99 a	99 a	99 a	0.4 a	25 a
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 a	99 a	99 a	0.0 b	0 b
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	99 a	99 a	99 a	0.0 b	0 b
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	99 a	99 a	99 a	0.0 b	0 b
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	99 a	99 a	99 a	0.0 b	0 b
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 a	99 a	99 a	0.0 b	0 b
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 a	99 a	99 a	0.0 b	0 b
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 a	99 a	99 a	0.0 b	0 b
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 a	99 a	99 a	0.0 b	0 b
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 b	99 a	99 a	0.1 b	13 ab
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	99 a	99 a	99 a	0.0 b	0 b
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	99 a	99 a	99 a	0.1 b	13 ab
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	99 a	99 a	99 a	0.0 b	0 b
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: 07-52-MW130

Location: Belleville Research Center

Investigator: Bryan Young

Weed Code	AMATA	AMATA	AMATA	AMATA	AMATA
Crop Code					
Rating Data Type	Control	Control	Control	Plants	Seeding
Rating Unit	Percent	Percent	Percent	0.5m2	Percent
Rating Date		7-11-07	9-27-07	9-27-07	9-27-07
Trt-Eval Interval	@ Post	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	99 a	99 a	99 a	0.0 b	0 b
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 a	99 a	99 a	0.0 b	0 b
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	99 a	99 a	99 a	0.0 b	0 b
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 a	99 a	99 a	0.0 b	0 b
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 a	99 a	99 a	0.0 b	0 b
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 a	99 a	99 a	0.0 b	0 b
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 a	99 a	99 a	0.0 b	0 b
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 c	0 c	0 c	0.0 b	0 b
26	WEED FREE									99 a	99 a	99 a	0.0 b	0 b
27	Treatment 1 @ LPOST									99 a				
LSD (P=.05)										1.2	0.1	0.5	0.24	16.9
Replicate F										0.891	1.000	1.804	1.000	1.351
Replicate Prob(F)										0.4496	0.3977	0.1537	0.3977	0.2642
Treatment F										5655.101	156785.328	10086.135	0.920	0.946
Treatment Prob(F)										0.0001	0.0001	0.0001	0.5783	0.5453

Means followed by same letter do not significantly differ (P=.05, LSD)

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

Project Code: 07-52-MW130

Location: Belleville Research Center

Investigator: Bryan Young

Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

XANST XANST XANST XANST XANST

Control Control Control Plants Seeding

Percent Percent Percent 0.5m2 Percent

@ Post 21 DA-C 7-11-07 9-27-07 9-27-07

EOS EOS EOS

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	0 j	94 d	98 ab	0.3 c	13 b
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 j	89 e	95 c	0.9 a	44 a
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	85 i	95 bcd	98 ab	0.1 c	13 b
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	90 h	98 a-d	99 ab	0.4 bc	13 b
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	95 a-f	95 cd	98 ab	0.1 c	13 b
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 a-f	98 abc	99 ab	0.1 c	13 b
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	94 c-g	98 a-d	98 ab	0.8 ab	50 a
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	93 d-h	96 a-d	99 ab	0.1 c	13 b
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	95 a-f	97 a-d	99 a	0.0 c	0 b
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 d-h	97 a-d	98 ab	0.1 c	13 b
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 a-d	97 a-d	99 ab	0.1 c	0 b
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 abc	96 a-d	99 ab	0.3 c	13 b
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 ab	99 ab	99 ab	0.0 c	0 b
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	90 h	99 a	99 ab	0.3 c	13 b
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	89 h	98 abc	98 ab	0.1 c	13 b
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	90 gh	97 a-d	98 b	0.3 c	25 ab
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	95 b-f	98 abc	99 a	0.0 c	0 b
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: 07-52-MW130

Location: Belleville Research Center

Investigator: Bryan Young

Weed Code	XANST	XANST	XANST	XANST	XANST
Crop Code					
Rating Data Type	Control	Control	Control	Plants	Seeding
Rating Unit	Percent	Percent	Percent	0.5m2	Percent
Rating Date	7-11-07	7-11-07	9-27-07	9-27-07	9-27-07
Trt-Eval Interval	@ Post	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	94	c-g	97	a-d	99	ab	0.0	c	0	b
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	91	fgh	98	abc	99	ab	0.0	c	0	b
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	93	e-h	99	ab	99	a	0.1	c	13	b
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	97	a-e	99	abc	99	ab	0.0	c	0	b
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	a-f	99	abc	99	ab	0.1	c	13	b
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	abc	99	a	99	a	0.0	c	0	b
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	a	99	a	99	a	0.0	c	0	b
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	j	0	f	0	d	0.0	c	0	b
26	WEED FREE									99	a	99	a	99	a	0.0	c	0	b
27	Treatment 1 @ LPOST									98	a-d								
LSD (P=.05)										4.4		4.2		1.3		0.42		29.1	
Replicate F										1.522		0.924		0.197		2.405		1.039	
Replicate Prob(F)										0.2153		0.4337		0.8982		0.0740		0.3801	
Treatment F										376.286		170.014		1797.777		2.168		1.568	
Treatment Prob(F)										0.0001		0.0001		0.0001		0.0055		0.0705	

Means followed by same letter do not significantly differ (P=.05, LSD)

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

Project Code: 07-52-MW130

Location: Belleville Research Center

Investigator: Bryan Young

Weed Code	IPOSS	IPOSS	IPOSS	IPOSS	IPOSS	AMPAL	AMPAL
Crop Code							
Rating Data Type	Control	Control	Control	Plants	Seeding	Plants	Seeding
Rating Unit	Percent	Percent	Percent	0.5m2	Percent	0.5m2	Percent
Rating Date	7-11-07	7-11-07	9-27-07	9-27-07	9-27-07	9-27-07	9-27-07
Trt-Eval Interval	@ Post	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							
1	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	EPOST	B	0 d	84 f	98 a-e	0.1 cd	0 d	0.4 ab	0 a
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 d	84 f	96 g	0.5 a-d	0 d	0.0 b	0 a
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 c	85 ef	97 d-g	0.9 ab	13 bc	0.0 b	0 a
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	99 a	91 bcd	98 a-e	0.0 d	0 d	0.0 b	0 a
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 ab	90 cde	98 a-e	0.3 bcd	0 d	0.6 a	0 a
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 a	93 bcd	98 a-e	1.0 a	0 d	0.3 ab	0 a
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 ab	91 bcd	97 c-f	0.1 cd	0 d	0.1 b	0 a
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	99 a	89 c-f	97 d-g	0.1 cd	0 d	0.0 b	0 a
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 a	91 b-e	97 efg	0.8 abc	0 d	0.0 b	0 a
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 a	94 abc	98 a-e	0.5 a-d	0 d	0.1 b	0 a
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 a	93 bcd	97 d-g	0.6 a-d	25 a	0.0 b	0 a
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 a	97 ab	98 a-d	0.5 a-d	0 d	0.0 b	0 a
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 a	97 ab	99 ab	0.3 bcd	0 d	0.1 b	0 a
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 bc	88 def	97 d-g	0.8 abc	5 cd	0.4 ab	0 a
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	99 a	93 bcd	96 fg	0.0 d	0 d	0.1 b	0 a
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	99 a	93 bcd	98 a-e	0.4 a-d	19 ab	0.0 b	0 a
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	99 a	95 abc	98 b-f	0.6 a-d	0 d	0.0 b	0 a
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: 07-52-MW130

Location: Belleville Research Center

Investigator: Bryan Young

Weed Code	IPOSS	IPOSS	IPOSS	IPOSS	IPOSS	AMPAL	AMPAL
Crop Code							
Rating Data Type	Control	Control	Control	Plants	Seeding	Plants	Seeding
Rating Unit	Percent	Percent	Percent	0.5m2	Percent	0.5m2	Percent
Rating Date	7-11-07	9-27-07	9-27-07	9-27-07	9-27-07	9-27-07	9-27-07
Trt-Eval Interval	@ Post	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	99 a	93 bcd	98 a-e	0.5 a-d	0 d	0.0 b	0 a
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 a	91 b-e	98 a-e	0.3 bcd	0 d	0.3 ab	0 a
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	99 a	91 bcd	97 c-f	0.6 a-d	0 d	0.3 ab	0 a
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 a	94 abc	98 a-d	0.1 cd	0 d	0.1 b	0 a
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 a	93 bcd	98 b-f	0.6 a-d	0 d	0.0 b	0 a
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 ab	94 abc	99 abc	0.4 a-d	0 d	0.1 b	0 a
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 a	96 ab	99 a	0.3 bcd	0 d	0.0 b	0 a
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 d	0 g	0 h	0.0 d	0 d	0.0 b	0 a
26	WEED FREE									99 a	99 a	99 a	0.0 d	0 d	0.0 b	0 a
27	Treatment 1 @ LPOST									99 a						
LSD (P=.05)										1.8	5.9	1.4	0.75	12.4	0.44	0.0
Replicate F										0.256	1.311	1.087	6.481	2.851	0.826	0.000
Replicate Prob(F)										0.8569	0.2771	0.3599	0.0006	0.0429	0.4834	1.0000
Treatment F										2349.927	77.080	1596.897	1.197	2.119	1.059	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	0.2710	0.0068	0.4093	1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)

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. @ Post = Prior to EPOST or LPOST application. DA-C = Days after LPOST application.

EOS = End of season. 0.5m2 = 0.5 square meter.

Ratings at EPOST and LPOST were on 6-11-07 and 6-20-07, respectively.

8. Harvested 10-1-07, (2) 30 inch rows by 22 ft.