

Rimsulfuron plus Isoxaflutole Foundation in Corn.

Project Code: 07-2B-M100 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:

To determine the ideal ratio of isoxaflutole, rimsulfuron, and atrazine for
 setup weed control in Roundup Ready and Liberty Link corn systems.

Weed Code	Common Name	Scientific Name
1. SETFA	foxtail, giant	Setaria faberi Herrm.
2. AMATA	waterhemp, common	Amaranthus rudis Sauer
3. AMBEL	ragweed, common	Ambrosia artemisiifolia L.
4. ABUTH	velvetleaf	Abutilon theophrasti Medicus
5. IPOHE	morningglory, ivyleaf	Ipomoea hederacea (L.) Jacq.
6. IPOLA	morningglory, pitted	Ipomoea lacunosa L.

Crop 1: ZEAMX corn, field Variety: 33K44
 Planting Method: Seeded Planting Date: 5-24-07
 Rate: 28000 S/A Depth: 1.5 IN
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 28 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: 2.4 pH: 6.6 CEC: 8
 Texture: Silt loam Fert. Level: P1: 86 LB/A, K: 360 LB/A

APPLICATION DESCRIPTION

	A	B	C
Application Date:	5-24-07	6-21-07	7-6-07
Time of Day:	19:15	7:30	10:00
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	4WA"A"	6WA"A"
Applic. Placement:	BROSIOI	BROSIOI	BROSIOI
Air Temp., Unit:	72 F	74 F	88 F
% Relative Humidity:	80	80	54
Wind Velocity, Unit:	3-6 MPH	0-1 MPH	0-1 MPH
Dew Presence (Y/N):	N		
Soil Moisture:	NORMAL	NORMAL	NORMAL
% Cloud Cover:	80	20	0

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX V5-V6	ZEAMX V9-V10
Height, Unit:	NA NA	15-18 IN	50-55 IN

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code:	SETFA	SETFA	
Stage(leaves):	4-8	6-20	
Height(inches):	6-10	6-24	
Density:	High	High	
Weed 2 Code:	AMATA	AMATA	
Stage(leaves):	6-12	12-40+	
Height(inches):	4-8	6-40	
Density:	High	High	
Weed 3 Code:	AMBEL	AMBEL	
Stage(leaves):	4-8	8-20	
Height(inches):	4-8	8-20	
Density:	Medium	Medium	
Weed 4 Code:	ABUTH	ABUTH	
Stage(leaves):	3-4	3-15	
Height(inches):	4-6	2-36	
Density:	Medium	Medium	
Weed 5 Code:	IPOSS	IPOSS	
Stage(leaves):	3-5	Coty-6	
Height(inches):	4-6	1-6	
Density:	Low	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:	XR 8002	XR 8002	XR 8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

NOTES:

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Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

Seed Code Crop Code Rating Data Type Rating Unit Rating Date Trt-Eval Interval									ZEAMX Moisture Percent 10-6-07	ZEAMX Yield bu/A 10-6-07	ZEAMX Injury Percent 6-7-07 14 DA-A	ZEAMX Injury Percent 6-21-07 28 DA-A	ZEAMX Injury Percent 6-28-07 7 DA-B	ZEAMX Injury Percent 7-5-07 14 DA-B	ZEAMX Injury Percent 7-13-07 7 DA-C	ZEAMX Injury Percent 7-20-07 14 DA-C	ZEAMX Injury Percent 8-3-07 28 DA-C		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code										
1	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A	16.6	bcd	171	a-d	0	a	0	a	0	a
1	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
1	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
2	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A	15.8	d	169	bcd	0	a	0	a	0	a
2	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C										
2	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
3	DPX-E9636	25	WG	0.0078	lb ai/a	0.5	oz/a	PRE	A	16.6	cd	190	ab	0	a	0	a	0	a
3	BALANCE PRO	4	SC	0.0156	lb ai/a	0.5	fl oz/a	PRE	A										
3	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
3	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
4	DPX-E9636	25	WG	0.0117	lb ai/a	0.75	oz/a	PRE	A	16.7	bcd	194	a	0	a	0	b	0	a
4	BALANCE PRO	4	SC	0.0234	lb ai/a	0.75	fl oz/a	PRE	A										
4	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
4	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
5	DPX-E9636	25	WG	0.0156	lb ai/a	1	oz/a	PRE	A	17.0	a-d	189	ab	0	a	0	a	0	b
5	BALANCE PRO	4	SC	0.0313	lb ai/a	1	fl oz/a	PRE	A										
5	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
5	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
6	DPX-E9636	25	WG	0.0196	lb ai/a	1.25	oz/a	PRE	A	18.2	a	189	ab	0	a	0	a	0	b
6	BALANCE PRO	4	SC	0.039	lb ai/a	1.25	fl oz/a	PRE	A										
6	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
6	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
7	DPX-E9636	25	WG	0.0234	lb ai/a	1.5	oz/a	PRE	A	16.4	cd	184	ab	0	a	0	a	0	b
7	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A										
7	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
7	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
8	DPX-E9636	25	WG	0.0156	lb ai/a	1	oz/a	PRE	A	17.4	abc	178	abc	0	a	0	a	0	b
8	BALANCE PRO	4	SC	0.0313	lb ai/a	1	fl oz/a	PRE	A										
8	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
8	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C										
8	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
9	HARNESS XTRA	6	L	2.7	lb ai/a	3.6	pt/a	PRE	A	16.3	cd	190	ab	0	a	0	a	0	b
9	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
9	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
10	HARNESS XTRA	6	L	2.7	lb ai/a	3.6	pt/a	PRE	A	16.6	cd	184	ab	0	a	0	a	0	b
10	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C										
10	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4WA"A"	B	17.7	abc	160	cd	0	a	0	a	10	a
11	AMS	100	DRY	2.0	lb ai/a	2	lb/a	4WA"A"	B										
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C	17.6	abc	132	ef	0	a	0	a	10	a
12	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
13	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	4WA"A"	B	18.0	ab	152	de	0	a	0	a	10	a
13	AMS	100	DRY	2.0	lb ai/a	2	lb/a	4WA"A"	B										
14	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C	17.4	abc	122	f	0	a	0	a	10	a
14	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
15	NONTREATED									15.8	d	67	g	0	a	0	a	0	b
LSD (P=.05)										1.38		23.7		0.0	0.0	0.0	0.0	0.0	0.0
Replicate F										0.942		0.369		0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)										0.4296		0.7760		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F										2.483		17.585		0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)										0.0127		0.0001		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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

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Weed Code	SETFA	SETFA	SETFA	SETFA	SETFA
Crop Code					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	6-7-07	6-21-07	7-5-07	7-20-07	8-3-07
Trt-Eval Interval	14 DA-A	28 DA-A	14 DA-B	14 DA-C	28 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A	48 d	30 d	14 f	99 a	99 a
1	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C					
1	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
2	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A	51 d	30 d	14 f	99 a	98 a
2	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C					
2	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
3	DPX-E9636	25	WG	0.0078	lb ai/a	0.5	oz/a	PRE	A	75 c	76 c	60 e	99 a	99 a
3	BALANCE PRO	4	SC	0.0156	lb ai/a	0.5	fl oz/a	PRE	A					
3	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A					
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C					
3	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
4	DPX-E9636	25	WG	0.0117	lb ai/a	0.75	oz/a	PRE	A	80 c	83 b	75 d	99 a	99 a
4	BALANCE PRO	4	SC	0.0234	lb ai/a	0.75	fl oz/a	PRE	A					
4	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A					
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C					
4	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
5	DPX-E9636	25	WG	0.0156	lb ai/a	1	oz/a	PRE	A	91 b	91 a	86 bc	99 a	99 a
5	BALANCE PRO	4	SC	0.0313	lb ai/a	1	fl oz/a	PRE	A					
5	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A					
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C					
5	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
6	DPX-E9636	25	WG	0.0196	lb ai/a	1.25	oz/a	PRE	A	95 ab	96 a	91 ab	99 a	99 a
6	BALANCE PRO	4	SC	0.039	lb ai/a	1.25	fl oz/a	PRE	A					
6	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A					
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C					
6	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
7	DPX-E9636	25	WG	0.0234	lb ai/a	1.5	oz/a	PRE	A	94 ab	91 a	85 bc	99 a	99 a
7	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A					
7	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A					
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C					
7	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
8	DPX-E9636	25	WG	0.0156	lb ai/a	1	oz/a	PRE	A	90 b	92 a	83 cd	99 a	99 a
8	BALANCE PRO	4	SC	0.0313	lb ai/a	1	fl oz/a	PRE	A					
8	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A					
8	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C					
8	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
9	HARNESS XTRA	6	L	2.7	lb ai/a	3.6	pt/a	PRE	A	98 a	98 a	95 a	99 a	99 a
9	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C					
9	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
10	HARNESS XTRA	6	L	2.7	lb ai/a	3.6	pt/a	PRE	A	98 a	98 a	97 a	99 a	99 a
10	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C					
10	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4WA"A"	B	0 e	0 e	99 a	96 ab	93 b
11	AMS	100	DRY	2.0	lb ai/a	2	lb/a	4WA"A"	B					
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C	0 e	0 e	0 g	99 a	99 a
12	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
13	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	4WA"A"	B	0 e	0 e	97 a	56 c	53 d
13	AMS	100	DRY	2.0	lb ai/a	2	lb/a	4WA"A"	B					
14	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C	0 e	0 e	0 g	93 b	89 c
14	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
15	NONTREATED									0 e	0 e	0 g	0 d	0 e
LSD (P=.05)										7.0	6.8	8.5	4.3	3.8
Replicate F										1.498	2.781	1.405	0.924	1.019
Replicate Prob(F)										0.2289	0.0527	0.2548	0.4377	0.3940
Treatment F										305.324	343.536	190.521	326.971	421.024
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)

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Weed Code	AMATA	AMATA	AMATA	AMATA	AMATA
Crop Code					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	6-7-07	6-21-07	7-5-07	7-20-07	8-3-07
Trt-Eval Interval	14 DA-A	28 DA-A	14 DA-B	14 DA-C	28 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code										
1	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A		73	b	60	c	49	d			
1	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C						99	a			
1	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C							99	a		
2	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A		75	b	61	c	49	d	99	a	
2	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C								98	a	
2	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
3	DPX-E9636	25	WG	0.0078	lb ai/a	0.5	oz/a	PRE	A		95	a	89	b	78	c	99	a	
3	BALANCE PRO	4	SC	0.0156	lb ai/a	0.5	fl oz/a	PRE	A								99	a	
3	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
3	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
4	DPX-E9636	25	WG	0.0117	lb ai/a	0.75	oz/a	PRE	A		99	a	96	ab	90	ab	99	a	
4	BALANCE PRO	4	SC	0.0234	lb ai/a	0.75	fl oz/a	PRE	A								99	a	
4	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
4	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
5	DPX-E9636	25	WG	0.0156	lb ai/a	1	oz/a	PRE	A		99	a	96	ab	91	ab	99	a	
5	BALANCE PRO	4	SC	0.0313	lb ai/a	1	fl oz/a	PRE	A								99	a	
5	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
5	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
6	DPX-E9636	25	WG	0.0196	lb ai/a	1.25	oz/a	PRE	A		99	a	97	a	92	a	99	a	
6	BALANCE PRO	4	SC	0.039	lb ai/a	1.25	fl oz/a	PRE	A								99	a	
6	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
6	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
7	DPX-E9636	25	WG	0.0234	lb ai/a	1.5	oz/a	PRE	A		99	a	97	a	96	a	99	a	
7	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A								99	a	
7	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
7	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
8	DPX-E9636	25	WG	0.0156	lb ai/a	1	oz/a	PRE	A		99	a	94	ab	91	ab	95	a	
8	BALANCE PRO	4	SC	0.0313	lb ai/a	1	fl oz/a	PRE	A								95	a	
8	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
8	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C										
8	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
9	HARNESS XTRA	6	L	2.7	lb ai/a	3.6	pt/a	PRE	A		99	a	99	a	99	a	99	a	
9	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
9	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
10	HARNESS XTRA	6	L	2.7	lb ai/a	3.6	pt/a	PRE	A		99	a	99	a	99	a	99	a	
10	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C										
10	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4WA"A"	B		0	c	0	d	92	ab	92	a	
11	AMS	100	DRY	2.0	lb ai/a	2	lb/a	4WA"A"	B								81	b	
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C		0	c	0	d	0	e	99	a	
12	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C								99	a	
13	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	4WA"A"	B		0	c	0	d	83	bc	51	b	
13	AMS	100	DRY	2.0	lb ai/a	2	lb/a	4WA"A"	B								43	c	
14	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C		0	c	0	d	0	e	95	a	
14	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C								80	b	
15	NONTREATED										0	c	0	d	0	e	0	c	
LSD (P=.05)											6.4		7.4		9.3		9.1		10.3
Replicate F											2.849		2.038		4.453		1.240		1.474
Replicate Prob(F)											0.0488		0.1232		0.0084		0.3072		0.2355
Treatment F											426.835		300.573		136.197		73.989		60.359
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)

Rimsulfuron plus Isoxaflutole Foundation in Corn.

Project Code: 07-2B-M100 Location: Belleville Research Center
Investigator: Bryan Young

Weed Code	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL
Crop Code					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	6-7-07	6-21-07	7-5-07	7-20-07	8-3-07
Trt-Eval Interval	14 DA-A	28 DA-A	14 DA-B	14 DA-C	28 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code										
1	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A	71	b	60	b	53	d	99	a	99	a
1	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
1	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
2	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A	70	b	63	b	58	c	99	a	98	a
2	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C										
2	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
3	DPX-E9636	25	WG	0.0078	lb ai/a	0.5	oz/a	PRE	A	97	a	97	a	95	ab	99	a	99	a
3	BALANCE PRO	4	SC	0.0156	lb ai/a	0.5	fl oz/a	PRE	A										
3	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
3	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
4	DPX-E9636	25	WG	0.0117	lb ai/a	0.75	oz/a	PRE	A	99	a	98	a	98	ab	99	a	99	a
4	BALANCE PRO	4	SC	0.0234	lb ai/a	0.75	fl oz/a	PRE	A										
4	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
4	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
5	DPX-E9636	25	WG	0.0156	lb ai/a	1	oz/a	PRE	A	99	a	99	a	99	a	99	a	99	a
5	BALANCE PRO	4	SC	0.0313	lb ai/a	1	fl oz/a	PRE	A										
5	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
5	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
6	DPX-E9636	25	WG	0.0196	lb ai/a	1.25	oz/a	PRE	A	99	a	98	a	99	a	99	a	99	a
6	BALANCE PRO	4	SC	0.039	lb ai/a	1.25	fl oz/a	PRE	A										
6	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
6	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
7	DPX-E9636	25	WG	0.0234	lb ai/a	1.5	oz/a	PRE	A	99	a	99	a	99	a	99	a	99	a
7	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A										
7	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
7	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
8	DPX-E9636	25	WG	0.0156	lb ai/a	1	oz/a	PRE	A	99	a	98	a	98	ab	99	a	99	a
8	BALANCE PRO	4	SC	0.0313	lb ai/a	1	fl oz/a	PRE	A										
8	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
8	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C										
8	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
9	HARNESX XTRA	6	L	2.7	lb ai/a	3.6	pt/a	PRE	A	98	a	96	a	94	b	99	a	99	a
9	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
9	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
10	HARNESX XTRA	6	L	2.7	lb ai/a	3.6	pt/a	PRE	A	99	a	97	a	97	ab	99	a	99	a
10	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C										
10	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4WA"A"	B	0	c	0	c	99	a	99	a	97	ab
11	AMS	100	DRY	2.0	lb ai/a	2	lb/a	4WA"A"	B										
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C	0	c	0	c	0	e	99	a	99	a
12	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
13	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	4WA"A"	B	0	c	0	c	99	a	90	c	89	c
13	AMS	100	DRY	2.0	lb ai/a	2	lb/a	4WA"A"	B										
14	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C	0	c	0	c	0	e	97	b	94	b
14	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
15	NONTREATED									0	c	0	c	0	e	0	d	0	d
LSD (P=.05)										3.8		4.0		4.7		2.2		3.4	
Replicate F										1.720		1.845		1.938		1.000		1.547	
Replicate Prob(F)										0.1774		0.1537		0.1381		0.4023		0.2164	
Treatment F										1198.279		1083.010		604.954		1053.731		451.842	
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)

Rimsulfuron plus Isoxaflutole Foundation in Corn.

Project Code: 07-2B-M100 Location: Belleville Research Center
Investigator: Bryan Young

Weed Code	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Crop Code					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	6-7-07	6-21-07	7-5-07	7-20-07	8-3-07
Trt-Eval Interval	14 DA-A	28 DA-A	14 DA-B	14 DA-C	28 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code										
1	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A	68	e	44	e	36	f	99	a	97	a
1	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
1	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
2	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A	75	d	48	e	35	f	99	a	96	a
2	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C										
2	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
3	DPX-E9636	25	WG	0.0078	lb ai/a	0.5	oz/a	PRE	A	97	a	85	bc	80	d	99	a	98	a
3	BALANCE PRO	4	SC	0.0156	lb ai/a	0.5	fl oz/a	PRE	A										
3	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
3	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
4	DPX-E9636	25	WG	0.0117	lb ai/a	0.75	oz/a	PRE	A	97	ab	88	ab	83	d	99	a	99	a
4	BALANCE PRO	4	SC	0.0234	lb ai/a	0.75	fl oz/a	PRE	A										
4	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
4	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
5	DPX-E9636	25	WG	0.0156	lb ai/a	1	oz/a	PRE	A	98	a	91	a	85	cd	99	a	99	a
5	BALANCE PRO	4	SC	0.0313	lb ai/a	1	fl oz/a	PRE	A										
5	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
5	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
6	DPX-E9636	25	WG	0.0196	lb ai/a	1.25	oz/a	PRE	A	98	a	91	a	86	cd	99	a	98	a
6	BALANCE PRO	4	SC	0.039	lb ai/a	1.25	fl oz/a	PRE	A										
6	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
6	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
7	DPX-E9636	25	WG	0.0234	lb ai/a	1.5	oz/a	PRE	A	98	a	92	a	90	bc	99	a	99	a
7	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A										
7	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
7	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
8	DPX-E9636	25	WG	0.0156	lb ai/a	1	oz/a	PRE	A	98	a	90	ab	86	cd	99	a	96	a
8	BALANCE PRO	4	SC	0.0313	lb ai/a	1	fl oz/a	PRE	A										
8	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A										
8	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C										
8	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
9	HARNESST XTRA	6	L	2.7	lb ai/a	3.6	pt/a	PRE	A	93	bc	81	c	65	e	96	ab	96	a
9	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C										
9	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
10	HARNESST XTRA	6	L	2.7	lb ai/a	3.6	pt/a	PRE	A	93	c	75	d	70	e	98	a	98	a
10	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C										
10	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4WA"A"	B	0	f	0	f	95	ab	93	b	77	c
11	AMS	100	DRY	2.0	lb ai/a	2	lb/a	4WA"A"	B										
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C	0	f	0	f	0	g	99	a	95	ab
12	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
13	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	4WA"A"	B	0	f	0	f	98	a	89	c	78	c
13	AMS	100	DRY	2.0	lb ai/a	2	lb/a	4WA"A"	B										
14	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C	0	f	0	f	0	g	93	bc	85	bc
14	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C										
15	NONTREATED									0	f	0	f	0	g	0	d	0	d
LSD (P=.05)										3.7		5.7		6.4		4.3		9.9	
Replicate F										0.533		0.426		7.331		3.417		3.075	
Replicate Prob(F)										0.6624		0.7354		0.0005		0.0258		0.0378	
Treatment F										1248.418		426.926		261.700		286.596		53.065	
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)

Rimsulfuron plus Isoxaflutole Foundation in Corn.

Project Code: 07-2B-M100 Location: Belleville Research Center
Investigator: Bryan Young

Weed Code	IPOSS	IPOSS	IPOSS	IPOSS	IPOSS
Crop Code					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	6-7-07	6-21-07	7-5-07	7-20-07	8-3-07
Trt-Eval Interval	14 DA-A	28 DA-A	14 DA-B	14 DA-C	28 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A	78 d	66 f	53 e	99 a	98 a
1	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C					
1	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
2	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A	80 d	68 ef	54 e	99 a	98 a
2	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C					
2	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
3	DPX-E9636	25	WG	0.0078	lb ai/a	0.5	oz/a	PRE	A	93 bc	81 abc	71 bcd	99 a	97 a
3	BALANCE PRO	4	SC	0.0156	lb ai/a	0.5	fl oz/a	PRE	A					
3	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A					
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C					
3	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
4	DPX-E9636	25	WG	0.0117	lb ai/a	0.75	oz/a	PRE	A	93 bc	83 ab	75 abc	99 a	98 a
4	BALANCE PRO	4	SC	0.0234	lb ai/a	0.75	fl oz/a	PRE	A					
4	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A					
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C					
4	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
5	DPX-E9636	25	WG	0.0156	lb ai/a	1	oz/a	PRE	A	95 abc	84 a	76 ab	99 a	98 a
5	BALANCE PRO	4	SC	0.0313	lb ai/a	1	fl oz/a	PRE	A					
5	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A					
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C					
5	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
6	DPX-E9636	25	WG	0.0196	lb ai/a	1.25	oz/a	PRE	A	96 ab	80 a-d	71 bcd	99 a	95 a
6	BALANCE PRO	4	SC	0.039	lb ai/a	1.25	fl oz/a	PRE	A					
6	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A					
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C					
6	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
7	DPX-E9636	25	WG	0.0234	lb ai/a	1.5	oz/a	PRE	A	97 a	84 a	83 a	99 a	97 a
7	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A					
7	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A					
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C					
7	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
8	DPX-E9636	25	WG	0.0156	lb ai/a	1	oz/a	PRE	A	92 c	75 b-e	73 bcd	99 a	94 a
8	BALANCE PRO	4	SC	0.0313	lb ai/a	1	fl oz/a	PRE	A					
8	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A					
8	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C					
8	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
9	HARNESS XTRA	6	L	2.7	lb ai/a	3.6	pt/a	PRE	A	96 ab	74 c-f	68 cd	99 a	96 a
9	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C					
9	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
10	HARNESS XTRA	6	L	2.7	lb ai/a	3.6	pt/a	PRE	A	95 abc	73 def	66 d	99 a	97 a
10	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C					
10	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4WA"A"	B	0 e	0 g	79 ab	88 c	80 b
11	AMS	100	DRY	2.0	lb ai/a	2	lb/a	4WA"A"	B					
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	6WA"A"	C	0 e	0 g	0 f	97 ab	97 a
12	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
13	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	4WA"A"	B	0 e	0 g	78 ab	54 d	43 c
13	AMS	100	DRY	2.0	lb ai/a	2	lb/a	4WA"A"	B					
14	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	6WA"A"	C	0 e	0 g	0 f	95 b	94 a
14	AMS	100	DRY	2.0	lb ai/a	2	lb/a	6WA"A"	C					
15	NONTREATED									0 e	0 g	0 f	0 e	0 d
LSD (P=.05)										3.0	7.7	8.4	3.7	5.6
Replicate F										2.418	2.843	2.284	0.365	2.614
Replicate Prob(F)										0.0796	0.0491	0.0929	0.7788	0.0637
Treatment F										1887.592	196.184	106.296	434.069	199.192
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)

Rimsulfuron plus Isoxaflutole Foundation in Corn.

Project Code: 07-2B-M100 Location: Belleville Research Center
Investigator: Bryan Young

Trial Comments

1. Protocol: DuPont (07-003).
2. Ratings: CI/WC 14 + 28 DA "A"; CI at 7 DA "B"+"C"; CI/WC at 14 + 28 DA "B"+"C".
3. Yield.
4. DA-A, DA-B and DA-C = Days after PRE, 4WA "A" and 6WA "A" application, respectively.
Ratings at 7, 14, and 28 DA-C were also 22, 29, and 43 DA-B, respectively.
5. Crop injury on 6-28-07 at 7 DA-B was stunting due to competition from weeds, not from herbicide.
6. IPOSS was IPOHE (ivyleaf morningglory) and IPOLA (pitted morningglory).
7. Application "C" was made using drop nozzles.
8. Harvested 10-6-07, (2) 30 inch rows by 25 ft.