

DuPont Roundup Ready Corn Offerings.

Project Code: 03-52-E110 Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 9-3-03

Objective:

Demonstrate the value of POST-residual activity of rimsulfuron with glyphosate.

Weed Code	Common Name	Scientific Name
1. SETFA	foxtail, giant	Setaria faberi Herrm.
2. AMBTR	ragweed, giant	Ambrosia trifida L.
3. AMATA	waterhemp, common	Amaranthus rudis Sauer

Crop 1: ZEAMX corn, field Variety: DKC 60-17 RR
 Planting Method: Seeded Planting Date: 6-19-03
 Rate: 28000 S/A Depth: 1.5 IN
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 25 FT Reps: 3
 Tillage Type: Reduced-Till Study Design: RANDOMIZED COMPLETE BLOCK
 Previous Crop, Year: GLXMA, 2002

Field Prep./Maintenance: N 150 LB/A, P205 50 LB/A, K20 150 LB/A

Soil Name: Weir % OM: 1.9 pH: 7.1 CEC: 12
 Texture: Silt loam Fert. Level: P1: 97 LB/A, K: 282 LB/A

APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	6-6-03	7-8-03	7-15-03	7-15-03
Time of Day:	11:00	8:00	8:30	8:30
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	PRE	1-2"GR	4-6"GR-1	4-6"GR-2
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	65 F	84 F	76 F	76 F
% Relative Humidity:	96	60	92	92
Wind Velocity, Unit:	0 MPH	3 MPH	3 MPH	3 MPH
Soil Moisture:	ABONOR	NORMAL	BELNOR	BELNOR

CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX V7	ZEAMX V8	ZEAMX V8
Height, Unit:	NA IN	24 IN	30 IN	30 IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code:			SETFA	SETFA
Stage(leaves):			4-6	4-6
Height(inches):			4-6	4-6
Density:			Medium	Medium
Weed 2 Code:		AMBTR	AMBTR	AMBTR
Stage(leaves):		8-20	8-20	8-20
Height(inches):		10-24	6-24	6-24
Density:		Medium	Medium	Medium
Weed 3 Code:		AMATA	AMATA	AMATA
Stage(leaves):		8-25	8-25	8-25
Height(inches):		6-24	4-24	4-24
Density:		High	Medium	Medium

APPLICATION EQUIPMENT

	A	B	C	D
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan	Flat fan
Nozzle Size:	8002	8002	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA	20 GPA

NOTES:

Not harvested.

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Weed Code					SETFA	SETFA	SETFA	AMBTR	AMBTR	AMBTR	AMATA	AMATA	AMATA	
Crop Code					ZEAMX	ZEAMX	ZEAMX	ZEAMX						
Rating Data Type					Injury	Injury	Injury	Injury	Control	Control	Control	Control	Control	
Rating Unit					Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
Rating Date														
Trt-Eval Interval					7 DAT	14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	7 DAT	14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT
1	ROUNDUP W-MAX	4.5	SL	0.77	LB AE/A	22	FL OZ/A	1-2"GR	B	0	0	0	0	99	99	99	82	83	86	96	88	88
1	AMS	100	DRY	2.0	LB A/A	2	LB/A	1-2"GR	B													
2	ROUNDUP W-MAX	4.5	SL	0.77	LB AE/A	22	FL OZ/A	1-2"GR	B	0	0	0	0	99	99	99	82	82	85	94	93	92
2	DPX-E9636	25	WG	0.01175	LB A/A	0.75	OZ/A	1-2"GR	B													
2	AMS	100	DRY	2.0	LB A/A	2	LB/A	1-2"GR	B													
3	ROUNDUP W-MAX	4.5	SL	0.77	LB AE/A	22	FL OZ/A	1-2"GR	B	0	0	0	0	99	99	99	87	87	87	94	92	95
3	DPX-E9636	25	WG	0.02344	LB A/A	1.5	OZ/A	1-2"GR	B													
3	AMS	100	DRY	2.0	LB A/A	2	LB/A	1-2"GR	B													
4	ROUNDUP W-MAX	4.5	SL	0.77	LB AE/A	22	FL OZ/A	1-2"GR	B	0	0	0	0	99	99	99	83	87	90	95	95	95
4	CINCH	7.64	EC	1.27	LB A/A	1.33	PT/A	1-2"GR	B													
4	AMS	100	DRY	2.0	LB A/A	2	LB/A	1-2"GR	B													
5	ROUNDUP W-MAX	4.5	SL	0.77	LB AE/A	22	FL OZ/A	1-2"GR	B	0	0	0	0	99	99	99	96	96	99	86	83	84
5	CINCH ATZ	5.5	L	2.9	LB A/A	4.2	PT/A	1-2"GR	B													
5	AMS	100	DRY	2.0	LB A/A	2	LB/A	1-2"GR	B													
6	ROUNDUP W-MAX	4.5	SL	0.77	LB AE/A	22	FL OZ/A	1-2"GR	B	2	0	0	0	99	99	99	88	95	94	76	83	83
6	CINCH ATZ LITE	6	L	2.25	LB A/A	3.0	PT/A	1-2"GR	B													
6	AMS	100	DRY	2.0	LB A/A	2	LB/A	1-2"GR	B													
7	ROUNDUP W-MAX	4.5	SL	0.385	LB AE/A	11	FL OZ/A	1-2"GR	B	0	0	0	0	99	99	99	86	88	90	86	83	83
7	DPX-E9636	25	WG	0.02344	LB A/A	1.5	OZ/A	1-2"GR	B													
7	AMS	100	DRY	2.0	LB A/A	2	LB/A	1-2"GR	B													
8	ROUNDUP W-MAX	4.5	SL	0.385	LB AE/A	11	FL OZ/A	1-2"GR	B	0	0	0	0	99	99	99	77	80	78	75	78	77
8	DPX-E9636	25	WG	0.02344	LB A/A	1.5	OZ/A	1-2"GR	B													
8	AMS	100	DRY	2.0	LB A/A	2	LB/A	1-2"GR	B													
8	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	1-2"GR	B													
9	ROUNDUP W-MAX	4.5	SL	0.193	LB AE/A	5.5	FL OZ/A	1-2"GR	B	0	0	0	0	99	99	99	85	86	85	68	67	62
9	DPX-E9636	25	WG	0.02344	LB A/A	1.5	OZ/A	1-2"GR	B													
9	AMS	100	DRY	2.0	LB A/A	2	LB/A	1-2"GR	B													
10	ROUNDUP W-MAX	4.5	SL	0.193	LB AE/A	5.5	FL OZ/A	1-2"GR	B	0	0	0	0	99	99	99	70	77	75	63	67	68
10	DPX-E9636	25	WG	0.02344	LB A/A	1.5	OZ/A	1-2"GR	B													
10	AMS	100	DRY	2.0	LB A/A	2	LB/A	1-2"GR	B													
10	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	1-2"GR	B													

Weed Code										SETFA	SETFA	SETFA	AMBTR	AMBTR	AMBTR	AMATA	AMATA	AMATA	
Crop Code										ZEAMX	ZEAMX	ZEAMX	ZEAMX						
Rating Data Type										Injury	Injury	Injury	Injury	Control	Control	Control	Control	Control	
Rating Unit										Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
Rating Date																			
Trt-Eval Interval										7 DAT	14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code													
11	STEADFAST	75	WG	0.035	LB A/A	0.75	OZ/A	1-2"GR	B	0	0	0	0	99	99	99	94	96	96	70	50	38
11	CALLISTO	4	SC	0.047	LB A/A	1.5	FL OZ/A	1-2"GR	B													
11	AATREX	90	WG	0.75	LB A/A	13.3	OZ/A	1-2"GR	B													
11	AMS	100	DRY	2.0	LB A/A	2	LB/A	1-2"GR	B													
11	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	1-2"GR	B													
12	ROUNDUP W-MAX	4.5	SL	0.77	LB AE/A	22	FL OZ/A	4-6"GR-1	C	0	0	0	0	99	99	99	91	93	92	84	97	98
12	AMS	100	DRY	2.0	LB A/A	2	LB/A	4-6"GR-1	C													
13	ROUNDUP W-MAX	4.5	SL	0.77	LB AE/A	22	FL OZ/A	4-6"GR-1	C	0	0	0	0	99	99	99	88	92	89	87	98	94
13	DPX-E9636	25	WG	0.02344	LB A/A	1.5	OZ/A	4-6"GR-1	C													
13	AMS	100	DRY	2.0	LB A/A	2	LB/A	4-6"GR-1	C													
14	ROUNDUP W-MAX	4.5	SL	0.77	LB AE/A	22	FL OZ/A	4-6"GR-1	C	0	0	0	0	99	99	99	93	93	91	90	98	96
14	CINCH	7.64	EC	1.27	LB A/A	1.33	PT/A	4-6"GR-1	C													
14	AMS	100	DRY	2.0	LB A/A	2	LB/A	4-6"GR-1	C													
15	ROUNDUP W-MAX	4.5	SL	0.77	LB AE/A	22	FL OZ/A	4-6"GR-1	C	0	0	0	0	99	99	99	93	97	98	91	96	93
15	CINCH ATZ	5.5	L	2.9	LB A/A	4.2	PT/A	4-6"GR-1	C													
15	AMS	100	DRY	2.0	LB A/A	2	LB/A	4-6"GR-1	C													
16	ROUNDUP W-MAX	4.5	SL	0.77	LB AE/A	22	FL OZ/A	4-6"GR-1	C	0	0	0	0	99	99	99	93	96	94	92	98	96
16	CINCH ATZ LITE	6	L	2.25	LB A/A	3.0	PT/A	4-6"GR-1	C													
16	AMS	100	DRY	2.0	LB A/A	2	LB/A	4-6"GR-1	C													
17	ROUNDUP W-MAX	4.5	SL	0.385	LB AE/A	11	FL OZ/A	4-6"GR-1	C	0	0	0	0	99	99	99	81	81	77	78	94	94
17	DPX-E9636	25	WG	0.02344	LB A/A	1.5	OZ/A	4-6"GR-1	C													
17	AMS	100	DRY	2.0	LB A/A	2	LB/A	4-6"GR-1	C													
18	ROUNDUP W-MAX	4.5	SL	0.385	LB AE/A	11	FL OZ/A	4-6"GR-1	C	0	0	0	0	99	99	99	80	62	57	72	88	90
18	DPX-E9636	25	WG	0.02344	LB A/A	1.5	OZ/A	4-6"GR-1	C													
18	AMS	100	DRY	2.0	LB A/A	2	LB/A	4-6"GR-1	C													
18	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	4-6"GR-1	C													
19	ROUNDUP W-MAX	4.5	SL	0.193	LB AE/A	5.5	FL OZ/A	4-6"GR-1	C	0	0	0	0	99	99	99	82	77	67	72	78	75
19	DPX-E9636	25	WG	0.02344	LB A/A	1.5	OZ/A	4-6"GR-1	C													
19	AMS	100	DRY	2.0	LB A/A	2	LB/A	4-6"GR-1	C													
20	ROUNDUP W-MAX	4.5	SL	0.193	LB AE/A	5.5	FL OZ/A	4-6"GR-1	C	0	0	0	0	99	99	99	81	82	77	67	78	72
20	DPX-E9636	25	WG	0.02344	LB A/A	1.5	OZ/A	4-6"GR-1	C													
20	AMS	100	DRY	2.0	LB A/A	2	LB/A	4-6"GR-1	C													
20	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	4-6"GR-1	C													
21	STEADFAST	75	WG	0.035	LB A/A	0.75	OZ/A	4-6"GR-1	C	0	0	0	0	99	99	99	92	92	95	75	43	45
21	CALLISTO	4	SC	0.047	LB A/A	1.5	FL OZ/A	4-6"GR-1	C													
21	AATREX	90	WG	0.75	LB A/A	13.3	OZ/A	4-6"GR-1	C													
21	AMS	100	DRY	2.0	LB A/A	2	LB/A	4-6"GR-1	C													
21	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	4-6"GR-1	C													

Weed Code									SETFA	SETFA	SETFA	AMBTR	AMBTR	AMBTR	AMATA	AMATA	AMATA	
Crop Code									ZEAMX	ZEAMX	ZEAMX	ZEAMX						
Rating Data Type									Injury	Injury	Injury	Injury	Control	Control	Control	Control	Control	
Rating Unit									Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
Rating Date																		
Trt-Eval Interval									7 DAT	14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	7 DAT	14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT				
22	CINCH	7.64	EC	1.24	LB A/A	1.3	PT/A	PRE	A	0	0	0	0	99	99	99	89	95	93	97	99	99	
22	ROUNDUP W-MAX	4.5	SL	0.77	LB AE/A	22	FL OZ/A	4-6"GR-2	D														
22	AMS	100	DRY	2.0	LB A/A	2	LB/A	4-6"GR-2	D														
23	CINCH	7.64	EC	0.64	LB A/A	0.67	PT/A	PRE	A	0	0	0	0	99	99	99	92	95	94	91	87	84	
23	STEADFAST	75	WG	0.035	LB A/A	0.75	OZ/A	4-6"GR-2	D														
23	CALLISTO	4	SC	0.047	LB A/A	1.5	FL OZ/A	4-6"GR-2	D														
23	AATREX	90	WG	0.75	LB A/A	13.3	OZ/A	4-6"GR-2	D														
23	AMS	100	DRY	2.0	LB A/A	2	LB/A	4-6"GR-2	D														
23	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	4-6"GR-2	D														
24	ROUNDUP ULTRA MAX	3.75	SL	0.76	LB AE/A	26	FL OZ/A	1-2"GR	B	0	0	0	0	99	99	99	80	87	88	94	95	95	
24	DPX-E9636	25	WG	0.01175	LB A/A	0.75	OZ/A	1-2"GR	B														
24	AMS	100	DRY	2.0	LB A/A	2	LB/A	1-2"GR	B														
25	ROUNDUP ULTRA MAX	3.7	SL	0.76	LB AE/A	26	FL OZ/A	1-2"GR	B	0	0	0	0	99	99	99	77	83	91	95	94	94	
25	DPX-E9636	25	WG	0.02344	LB A/A	1.5	OZ/A	1-2"GR	B														
25	AMS	100	DRY	2.0	LB A/A	2	LB/A	1-2"GR	B														
26	ROUNDUP ULTRA MAX	3.7	SL	0.76	LB AE/A	26	FL OZ/A	1-2"GR	B	0	0	0	0	99	99	99	77	83	86	96	92	95	
26	CINCH	7.64	EC	1.24	LB A/A	1.3	PT/A	1-2"GR	B														
26	AMS	100	DRY	2.0	LB A/A	2	LB/A	1-2"GR	B														
27	NONTREATED									0	0	0	0	0	0	0	0	0	0	0	0	0	
LSD (P=.05)										0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	12.7	12.3	7.0	9.4	9.6
Replicate F										1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.406	6.227	12.007	0.276	3.788	2.147
Replicate Prob(F)										0.3748	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0003	0.0038	0.0001	0.7598	0.0291	0.1271
Treatment F										1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	24.015	17.120	19.803	61.533	42.957	43.629
Treatment Prob(F)										0.4849	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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Trial Comments

1. Protocol: DuPont.
2. Ratings: CI 7, 14, 28 and 56 DA each POST; WC prior to POST (for trts 22+23), and 14, 28 and 56 DA each POST.
3. Blanket application (possible) VEPOST with grass herbicide to select for fall panicum.
4. DAT = days after treatment. DA-C = days after 4-6"GR-1.
 - 7 days after 1-2"GR, 4-6"GR-1 and 4-6"GR-2 was on 7-15-03, 7-22-03 and 7-22-03, respectively.
 - 14 days after 1-2"GR, 4-6"GR-1 and 4-6"GR-2 was on 7-22-03, 7-29-03 and 7-29-03, respectively.
 - 28 days after 1-2"GR, 4-6"GR-1 and 4-6"GR-2 was on 8-5-03, 8-12-03 and 8-12-03, respectively.
 - 56 days after 1-2"GR, 4-6"GR-1 and 4-6"GR-2 was on 9-2-03, 9-9-03 and 9-9-03, respectively.