

Burndown and In-Season Herbicide Options for Glyphosate-Resistant Marestalk in Soybean.

Project Code: 07-YRC-MT-Strat Location: Murphysboro, IL

Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Murphysboro IL 62966 USA  
 Trial Status: Final Updated: 1-24-08

Weed Code Common Name Scientific Name  
 1. ERICA horseweed Conyza canadensis (L.) Crong.

Crop 1: GLXMA soybean Variety: FS4646 RR  
 Planting Method: Seeded Planting Date: 6-2-07  
 Rate: 180000 S/A Depth: 1.25 IN  
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 30 FT Reps: 3  
 Tillage Type: No-Till Study Design: Randomized complete block  
 Previous Crop, Year: ZEAMX, 2006  
 Field Prep./Maintenance: N 0 LB/A, P205 0 LB/A, K20 0 LB/A

Soil Name: Alvin % OM: 1.6 pH: 5.2 CEC: 6.7  
 Texture: Very fine sandy loam Fert. Level: P1: 56 LB/A, K: 143 LB/A

APPLICATION DESCRIPTION

	A	B	C
Application Date:	5-23-07	5-30-07	7-2-07
Time of Day:	8:00	8:00	8:30
Application Method:	Spray	Spray	Spray
Application Timing:	2-20"MT	7DA-A	POST
Applic. Placement:	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	74 F	71 F	79 F
% Relative Humidity:	40	75	50
Wind Velocity, Unit:	0-2 MPH	0 MPH	0-5 MPH
Dew Presence (Y/N):	Y	N	Y
Soil Temp., Unit:	67 F	71 F	74 F
Soil Moisture:	ABONOR	NORMAL	ABONOR
% Cloud Cover:	30	100	0

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	GLXMA NA	GLXMA NA	GLXMA V4-V5
Height, Unit:	NA NA	NA NA	10-12 IN

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code:	ERICA	ERICA	ERICA
Stage(leaves):	6-40	15-50	7-200+
Height(inches):	2-20	8-15	5-60
Density:	High	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:	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:

Burndown and In-Season Herbicide Options for Glyphosate-Resistant Marestail in Soybean.

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Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Moisture	Test wt.	Yield	Injury	Injury	Injury
Percent	lb/bu	bu/A	Percent	Percent	Percent
10-29-07	10-29-07	10-29-07	6-20-07	7-16-07	7-30-07
			28 DA-A	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	GLXMA Moisture Percent	GLXMA Test wt. lb/bu	GLXMA Yield bu/A	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent
1	NONTREATED											3 e	0 a	0 a	0 a
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	13.8 ab	53.3 ab	36 abc	0 a	0 a	0 a
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A						
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C						
2	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C						
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C						
3	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	13.5 b	53.1 ab	38 a	0 a	0 a	0 a
3	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A						
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A						
3	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C						
3	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C						
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C						
4	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	13.7 ab	52.7 b	41 a	0 a	0 a	0 a
4	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A						
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A						
4	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C						
4	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C						
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C						
5	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	13.6 b	52.7 b	41 a	0 a	0 a	0 a
5	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A						
5	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A						
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A						
5	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C						
5	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C						
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C						
6	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	14.2 a	54.0 a	29 cd	0 a	0 a	0 a
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A						
6	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C						
6	SYNCHRONY XP	28.4	WG			0.375	oz/a	POST	C						
6	->CLASSIC	25	WG	0.00504	lb ai/a			POST	C						
6	->HARMONY GT XP	75	WG	0.00162	lb ai/a			POST	C						
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C						
7	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	14.0 ab	53.2 ab	26 d	0 a	0 a	0 a
7	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A						
7	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C						
7	BUTYRAC 200	2	EC	0.0312	lb ae/a	2	fl oz/a	POST	C						
7	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C						
8	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	13.8 ab	52.9 b	37 ab	0 a	0 a	0 a
8	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A						
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A						
8	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C						
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C						
9	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	13.8 ab	53.1 ab	30 bcd	0 a	0 a	0 a
9	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A						
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A						
9	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C						
9	FLEXSTAR	1.88	EC	0.352	lb ai/a	24	fl oz/a	POST	C						
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C						
10	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	2-20"MT	A	13.9 ab	53.0 ab	40 a	0 a	0 a	0 a
10	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	2-20"MT	A						
10	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C						
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C						
11	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	2-20"MT	A	13.8 ab	52.9 b	41 a	0 a	0 a	0 a
11	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	2-20"MT	A						
11	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C						
11	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C						
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C						
12	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	2-20"MT	A	13.9 ab	53.4 ab	37 ab	0 a	0 a	0 a
12	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A						
12	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	2-20"MT	A						
12	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C						
12	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C						

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Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Moisture	Test wt.	Yield	Injury	Injury	Injury
Percent	lb/bu	bu/A	Percent	Percent	Percent
10-29-07	10-29-07	10-29-07	6-20-07	7-16-07	7-30-07
			28 DA-A	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	GLXMA Moisture Percent	GLXMA Test wt. lb/bu	GLXMA Yield bu/A	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent
13	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	2-20"MT	A	13.9 ab	52.9 b	39 a	0 a	0 a	0 a
13	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A						
13	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	2-20"MT	A						
13	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C						
13	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C						
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C						
14	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	13.6 b	53.2 ab	43 a	0 a	0 a	0 a
14	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A						
14	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A						
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A						
14	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C						
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C						
15	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	13.9 ab	53.4 ab	41 a	0 a	0 a	0 a
15	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A						
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A						
15	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	7DA-A	B						
15	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	7DA-A	B						
LSD (P=.05)										0.51	1.04	7.9	0.0	0.0	0.0
Replicate F										3.217	0.291	4.353	0.000	0.000	0.000
Replicate Prob(F)										0.0565	0.7503	0.0226	1.0000	1.0000	1.0000
Treatment F										0.924	0.925	13.873	0.000	0.000	0.000
Treatment Prob(F)										0.5426	0.5423	0.0001	1.0000	1.0000	1.0000

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

Burndown and In-Season Herbicide Options for Glyphosate-Resistant Marestalk in Soybean.

Project Code: 07-YRC-MT-Strat Location: Murphysboro, IL

Investigator: Bryan Young

Weed Code	ERIC6-12	ERIC6-12	ERIC6-12	ERIC6-12
Crop Code	ERIC6-12	ERIC6-12	ERIC6-12	ERIC6-12
Rating Data Type	ERIC6-12	ERIC6-12	ERIC6-12	ERIC6-12
Rating Unit	ERIC6-12	ERIC6-12	ERIC6-12	ERIC6-12
Rating Date	ERIC6-12	ERIC6-12	ERIC6-12	ERIC6-12
Trt-Eval Interval	ERIC6-12	ERIC6-12	ERIC6-12	ERIC6-12

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	Control Percent 6-6-07 14 DA-A	Control Percent 6-6-07 14 DA-A	Control Percent 6-6-07 14 DA-A	Control Percent 6-6-07 14 DA-A
1	NONTREATED									0 g	0 f	0 e	0 g
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	72 e	50 de	33 cd	46 ef
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
2	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C				
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
3	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	92 b	77 b	55 b	75 b
3	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A				
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
3	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
3	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C				
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
4	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	83 cd	62 c	37 c	61 c
4	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A				
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
4	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
4	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C				
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
5	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	90 bc	73 b	53 b	73 b
5	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A				
5	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A				
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
5	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
5	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C				
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
6	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	63 f	43 e	27 d	40 f
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
6	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
6	SYNCHRONY XP	28.4	WG			0.375	oz/a	POST	C				
6	->CLASSIC	25	WG	0.00504	lb ai/a			POST	C				
6	->HARMONY GT XP	75	WG	0.00162	lb ai/a			POST	C				
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
7	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	62 f	47 de	27 d	40 f
7	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
7	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
7	BUTYRAC 200	2	EC	0.0312	lb ae/a	2	fl oz/a	POST	C				
7	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
8	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	83 cd	53 d	37 c	50 de
8	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A				
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
8	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
9	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	80 d	53 d	35 c	52 d
9	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A				
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
9	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
9	FLEXSTAR	1.88	EC	0.352	lb ai/a	24	fl oz/a	POST	C				
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
10	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	2-20"MT	A	99 a	98 a	96 a	97 a
10	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	2-20"MT	A				
10	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
11	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	2-20"MT	A	99 a	95 a	92 a	95 a
11	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	2-20"MT	A				
11	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
11	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C				
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
12	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	2-20"MT	A	99 a	97 a	94 a	97 a
12	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A				
12	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	2-20"MT	A				
12	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
12	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				

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Investigator: Bryan Young

Weed Code	ERIC6-12	ERIC6-12	ERIC6-12	ERIC6-12
Crop Code	ERIC6-12	ERIC6-12	ERIC6-12	ERIC6-12
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Date	6-6-07	6-6-07	6-6-07	6-6-07
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ERIC6-12	ERIC6-12	ERIC6-12	ERIC6-12
13	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	2-20"MT	A	99 a	97 a	97 a	97 a
13	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A				
13	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	2-20"MT	A				
13	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
13	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C				
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
14	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	88 bc	73 b	60 b	72 b
14	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A				
14	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A				
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
14	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
15	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	99 a	98 a	97 a	98 a
15	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A				
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
15	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	7DA-A	B				
15	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	7DA-A	B				
LSD (P=.05)										6.8	7.9	8.0	6.1
Replicate F										3.327	4.625	3.392	4.825
Replicate Prob(F)										0.0505	0.0184	0.0480	0.0158
Treatment F										120.410	102.865	134.039	184.639
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

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

Burndown and In-Season Herbicide Options for Glyphosate-Resistant Marestalk in Soybean.

Project Code: 07-YRC-MT-Strat Location: Murphysboro, IL

Investigator: Bryan Young

Weed Code	ERIC6<6	ERIC6-12	ERIC6>12	ERIC6_OA
Crop Code	Control	Control	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent
Rating Unit	6-20-07	6-20-07	6-20-07	6-20-07
Rating Date	28 DA-A	28 DA-A	28 DA-A	28 DA-A
Trt-Eval Interval				

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
1	NONTREATED									0 g	0 f	0 h	0 i
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	80 d	63 d	47 g	61 fg
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
2	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C				
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
3	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	93 ab	86 bc	76 cd	86 cd
3	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A				
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
3	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
3	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C				
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
4	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	88 bc	77 c	62 ef	76 e
4	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A				
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
4	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
4	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C				
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
5	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	96 a	90 ab	82 bc	89 abc
5	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A				
5	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A				
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
5	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
5	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C				
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
6	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	72 e	55 de	42 g	52 gh
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
6	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
6	SYNCHRONY XP	28.4	WG			0.375	oz/a	POST	C				
6	->CLASSIC	25	WG	0.00504	lb ai/a			POST	C				
6	->HARMONY GT XP	75	WG	0.00162	lb ai/a			POST	C				
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
7	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	63 f	45 e	38 g	46 h
7	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
7	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
7	BUTYRAC 200	2	EC	0.0312	lb ae/a	2	fl oz/a	POST	C				
7	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
8	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	88 bc	78 c	65 de	77 de
8	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A				
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
8	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
9	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	83 cd	63 d	50 fg	63 f
9	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A				
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
9	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
9	FLEXSTAR	1.88	EC	0.352	lb ai/a	24	fl oz/a	POST	C				
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
10	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	2-20"MT	A	98 a	96 ab	93 ab	95 abc
10	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	2-20"MT	A				
10	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
11	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	2-20"MT	A	98 a	94 ab	91 ab	93 abc
11	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	2-20"MT	A				
11	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
11	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C				
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
12	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	2-20"MT	A	99 a	95 ab	93 ab	95 abc
12	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A				
12	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	2-20"MT	A				
12	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
12	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				

Burndown and In-Season Herbicide Options for Glyphosate-Resistant Marestalk in Soybean.

Project Code: 07-YRC-MT-Strat Location: Murphysboro, IL

Investigator: Bryan Young

Weed Code	ERIC6-12	ERIC6-12	ERIC6-12	ERIC6-12
Crop Code	ERIC6-12	ERIC6-12	ERIC6-12	ERIC6-12
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Date	6-20-07	6-20-07	6-20-07	6-20-07
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ERIC6-12	ERIC6-12	ERIC6-12	ERIC6-12
13	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	2-20"MT	A	99 a	96 ab	95 ab	96 ab
13	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A				
13	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	2-20"MT	A				
13	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
13	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C				
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
14	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	93 ab	87 bc	82 bc	87 bcd
14	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A				
14	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A				
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
14	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
15	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	99 a	99 a	99 a	99 a
15	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A				
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
15	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	7DA-A	B				
15	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	7DA-A	B				
LSD (P=.05)										6.2	10.8	13.9	10.1
Replicate F										5.640	7.372	4.715	7.592
Replicate Prob(F)										0.0087	0.0027	0.0172	0.0023
Treatment F										141.464	50.820	33.631	58.975
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

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

Burndown and In-Season Herbicide Options for Glyphosate-Resistant Marestalk in Soybean.

Project Code: 07-YRC-MT-Strat Location: Murphysboro, IL

Investigator: Bryan Young

Weed Code	ERIC6<6	ERIC6-12	ERIC6>12	ERIC6_OA
Crop Code	Control	Control	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent
Rating Unit	7-16-07	7-16-07	7-16-07	7-16-07
Rating Date	14 DA-C	14 DA-C	14 DA-C	14 DA-C
Trt-Eval Interval				

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	NONTREATED										0 e	0 d	0 f	0 e
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A		93 bc	87 b	85 c	87 c
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A					
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C					
2	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C					
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C					
3	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A		96 ab	96 a	92 abc	96 ab
3	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A					
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A					
3	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C					
3	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C					
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C					
4	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A		96 ab	94 a	90 bc	93 b
4	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A					
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A					
4	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C					
4	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C					
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C					
5	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A		99 a	98 a	97 ab	98 ab
5	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A					
5	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A					
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A					
5	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C					
5	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C					
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C					
6	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A		90 cd	82 bc	75 d	83 cd
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A					
6	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C					
6	SYNCHRONY XP	28.4	WG			0.375	oz/a	POST	C					
6	->CLASSIC	25	WG	0.00504	lb ai/a			POST	C					
6	->HARMONY GT XP	75	WG	0.00162	lb ai/a			POST	C					
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C					
7	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A		88 d	77 c	62 e	78 d
7	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A					
7	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C					
7	BUTYRAC 200	2	EC	0.0312	lb ae/a	2	fl oz/a	POST	C					
7	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C					
8	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A		95 ab	95 a	91 abc	94 ab
8	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A					
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A					
8	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C					
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C					
9	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A		90 cd	82 bc	77 d	83 c
9	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A					
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A					
9	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C					
9	FLEXSTAR	1.88	EC	0.352	lb ai/a	24	fl oz/a	POST	C					
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C					
10	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	2-20"MT	A		99 a	98 a	96 ab	97 ab
10	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	2-20"MT	A					
10	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C					
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C					
11	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	2-20"MT	A		99 a	99 a	97 ab	98 ab
11	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	2-20"MT	A					
11	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C					
11	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C					
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C					
12	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	2-20"MT	A		98 a	99 a	97 ab	98 ab
12	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A					
12	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	2-20"MT	A					
12	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C					
12	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C					



Burndown and In-Season Herbicide Options for Glyphosate-Resistant Marestalk in Soybean.

Project Code: 07-YRC-MT-Strat Location: Murphysboro, IL

Investigator: Bryan Young

Weed Code	ERIC6-12	ERIC6-12	ERIC6-12	ERIC6-12
Crop Code	ERIC6-12	ERIC6-12	ERIC6-12	ERIC6-12
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Date	7-16-07	7-16-07	7-16-07	7-16-07
Trt-Eval Interval	14 DA-C	14 DA-C	14 DA-C	14 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ERIC6-12	ERIC6-12	ERIC6-12	ERIC6-12
13	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	2-20"MT	A	98 a	98 a	98 ab	98 ab
13	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A				
13	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	2-20"MT	A				
13	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
13	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C				
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
14	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	99 a	97 a	97 ab	98 ab
14	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A				
14	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A				
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
14	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C				
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C				
15	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	99 a	99 a	99 a	99 a
15	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A				
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A				
15	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	7DA-A	B				
15	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	7DA-A	B				
LSD (P=.05)										4.6	5.7	7.7	5.2
Replicate F										1.422	3.102	2.132	2.342
Replicate Prob(F)										0.2582	0.0607	0.1374	0.1147
Treatment F										246.577	164.703	91.260	189.007
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

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

Burndown and In-Season Herbicide Options for Glyphosate-Resistant Marestail in Soybean.

Project Code: 07-YRC-MT-Strat Location: Murphysboro, IL Investigator: Bryan Young

									ERICA<6	ERIC6-12	ERICA>12	ERICA_OA	ERICA_OA	ERICA
									Control	Control	Control	Control	Control	Plants
									Percent	Percent	Percent	Percent	Percent	1.0 m2
									7-30-07	7-30-07	7-30-07	7-30-07	10-9-07	10-9-07
									28 DA-C	28 DA-C	28 DA-C	28 DA-C	EOS	EOS
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	NONTREATED									0 e	0 d	0 f	0 e	0 e 11.3 a
2	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		2-20"MT	A	99 ab	96 a	93 bc	96 b	85 cd 3.0 cd
2	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		2-20"MT	A					
2	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		POST	C					
2	FIRSTRATE	84 WG		0.0157 lb ai/a		0.3 oz/a		POST	C					
2	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		POST	C					
3	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		2-20"MT	A	99 a	98 a	98 ab	98 ab	93 b 1.7 d
3	2,4-D LV4	3.8 EC		0.475 lb ae/a		1 pt/a		2-20"MT	A					
3	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		2-20"MT	A					
3	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		POST	C					
3	FIRSTRATE	84 WG		0.0157 lb ai/a		0.3 oz/a		POST	C					
3	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		POST	C					
4	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		2-20"MT	A	99 a	98 a	97 ab	98 ab	95 ab 2.7 cd
4	FIRSTRATE	84 WG		0.0157 lb ai/a		0.3 oz/a		2-20"MT	A					
4	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		2-20"MT	A					
4	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		POST	C					
4	FIRSTRATE	84 WG		0.0157 lb ai/a		0.3 oz/a		POST	C					
4	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		POST	C					
5	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		2-20"MT	A	99 a	99 a	99 a	99 a	96 ab 0.0 d
5	2,4-D LV4	3.8 EC		0.475 lb ae/a		1 pt/a		2-20"MT	A					
5	FIRSTRATE	84 WG		0.0157 lb ai/a		0.3 oz/a		2-20"MT	A					
5	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		2-20"MT	A					
5	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		POST	C					
5	FIRSTRATE	84 WG		0.0157 lb ai/a		0.3 oz/a		POST	C					
5	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		POST	C					
6	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		2-20"MT	A	96 bc	90 b	90 cd	92 c	88 c 5.0 bc
6	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		2-20"MT	A					
6	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		POST	C					
6	SYNCHRONY XP	28.4 WG				0.375 oz/a		POST	C					
6	->CLASSIC	25 WG		0.00504 lb ai/a				POST	C					
6	->HARMONY GT XP	75 WG		0.00162 lb ai/a				POST	C					
6	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		POST	C					
7	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		2-20"MT	A	92 d	85 c	85 e	86 d	80 d 7.0 b
7	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		2-20"MT	A					
7	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		POST	C					
7	BUTYRAC 200	2 EC		0.0312 lb ae/a		2 fl oz/a		POST	C					
7	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		POST	C					
8	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		2-20"MT	A	99 ab	98 a	95 ab	97 ab	95 ab 1.7 d
8	FIRSTRATE	84 WG		0.0157 lb ai/a		0.3 oz/a		2-20"MT	A					
8	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		2-20"MT	A					
8	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		POST	C					
8	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		POST	C					
9	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		2-20"MT	A	94 c	92 b	88 de	92 c	87 c 5.7 bc
9	FIRSTRATE	84 WG		0.0157 lb ai/a		0.3 oz/a		2-20"MT	A					
9	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		2-20"MT	A					
9	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		POST	C					
9	FLEXSTAR	1.88 EC		0.352 lb ai/a		24 fl oz/a		POST	C					
9	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		POST	C					
10	GRAMOXONE INTEON	2 SL		1 lb ai/a		4 pt/a		2-20"MT	A	99 a	99 a	97 ab	98 ab	95 ab 0.3 d
10	ACTIVATOR 90	100 LIQ		0.125 % v/v		0.125 % v/v		2-20"MT	A					
10	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		POST	C					
10	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		POST	C					
11	GRAMOXONE INTEON	2 SL		1 lb ai/a		4 pt/a		2-20"MT	A	99 a	99 a	97 ab	98 ab	97 ab 1.7 d
11	ACTIVATOR 90	100 LIQ		0.125 % v/v		0.125 % v/v		2-20"MT	A					
11	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		POST	C					
11	FIRSTRATE	84 WG		0.0157 lb ai/a		0.3 oz/a		POST	C					
11	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		POST	C					
12	GRAMOXONE INTEON	2 SL		1 lb ai/a		4 pt/a		2-20"MT	A	99 a	98 a	98 ab	98 ab	99 a 0.0 d
12	2,4-D LV4	3.8 EC		0.475 lb ae/a		1 pt/a		2-20"MT	A					
12	ACTIVATOR 90	100 LIQ		0.125 % v/v		0.125 % v/v		2-20"MT	A					
12	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		POST	C					
12	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		POST	C					

Burndown and In-Season Herbicide Options for Glyphosate-Resistant Marestail in Soybean.

Project Code: 07-YRC-MT-Strat Location: Murphysboro, IL

Investigator: Bryan Young

Weed Code										ERICA<6	ERIC6-12	ERICA>12	ERICA_OA	ERICA_OA	ERICA
Crop Code										Control	Control	Control	Control	Control	Plants
Rating Data Type										Percent	Percent	Percent	Percent	Percent	1.0 m2
Rating Unit										7-30-07	7-30-07	7-30-07	7-30-07	10-9-07	10-9-07
Rating Date										28 DA-C	28 DA-C	28 DA-C	28 DA-C	EOS	EOS
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
13	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	2-20"MT	A	99 a	99 a	99 a	99 a	98 ab	0.0 d
13	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A						
13	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	2-20"MT	A						
13	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C						
13	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	POST	C						
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C						
14	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	99 a	99 a	99 a	99 ab	97 ab	0.3 d
14	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A						
14	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-20"MT	A						
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A						
14	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	POST	C						
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	POST	C						
15	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	99 a	99 a	98 ab	98 ab	94 ab	1.3 d
15	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	2-20"MT	A						
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2-20"MT	A						
15	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	7DA-A	B						
15	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	7DA-A	B						
LSD (P=.05)										2.3	3.4	4.6	3.0	5.2	3.20
Replicate F										1.568	0.166	0.116	0.111	0.524	3.758
Replicate Prob(F)										0.2262	0.8476	0.8908	0.8949	0.5980	0.0358
Treatment F										980.400	458.779	250.573	593.010	189.820	8.504
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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

Trial Comments

1. Protocol: SIU, various.
2. Ratings: CI/WC 14 + 28 DAT; for marestail record WC separately for plants that are <6", 6-12", and >12".
3. DA-A = Days after 2-20"MT application. DA-C = Days after POST application.  
EOS = End of season. 1.0 m2 = 1.0 square meter.  
Ratings at 14 and 28 days the 2-20"MT (A) application were also 7 and 21 days after the 7DA-A (B) application, respectively.  
Not possible to rate crop injury at 14 DA-A on 6-6-07, as crop was planted on 6-2-07.
4. ERICA<6, ERIC6-12, ERICA>12, and ERICA\_OA are ERICA, less than 6 inch, 6 to 12 inch, greater than 12 inch, and overall, respectively.
5. Harvested 10-29-07, (2) 30 inch rows by 27 feet.