

Marestail (Horseweed) Control

1-22-07 (06-Alstat-W50)

Southern Illinois University

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

Project Code: 06-Alstat-W50 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: 1-22-07

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

Crop 1: GLXMA soybean Variety: FS4646
Planting Method: Seeded Planting Date: 6-5-06
Rate: 75 lb/A Depth: 1.0 IN
Row Spacing: 30 IN Seed Bed: No-Till

Plot Width, Unit: 10 FT Plot Length, Unit: 30 FT Reps: 3
Tillage Type: No-Till Study Design: Randomized complete block
Previous Crop, Year: GLXMA, 2005

APPLICATION DESCRIPTION

	A	B	C
Application Date:	5-26-06	6-5-06	6-30-06
Time of Day:	18:00	18:30	8:00
Application Method:	Spray	Spray	Spray
Application Timing:	2-20"MT	7DA-A	POST
Applic. Placement:	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	88 F	81 F	86 F
% Relative Humidity:	51	53	35
Wind Velocity, Unit:	1-2 MPH	0 MPH	2 MPH
Dew Presence (Y/N):	N	N	Y
Soil Temp., Unit:	84 F	84 F	81 F
Soil Moisture:	BELNOR	BELNOR	BELNOR
% Cloud Cover:	10	85	10

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	GLXMA NA	GLXMA NA	GLXMA V3-V4
Height, Unit:	NA NA	NA NA	5-7 IN

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code:	ERICA	ERICA	ERICA
Stage(leaves):	5-60	7-60	9-70
Height(inches):	3-27	4-28	3-35
Density:	High	High	High

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:	8002	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA

NOTES:

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

Project Code: 06-Alstat-W50 Location: Murphysboro, IL
 Investigator: Bryan Young

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
 10-21-06 10-21-06 10-21-06 6-23-06 7-14-06 7-28-06
 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									0	0	0	0	0	0
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20"MT	A	14.2	51.6	16	0	0	0
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	14.0	52.0	39	0	0	0
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	14.2	52.3	23	0	0	0
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	14.2	52.2	41	0	0	0
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	14.5	52.3	15	0	0	0
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	14.2	51.9	15	0	0	0
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	14.2	51.4	28	0	0	0
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	14.1	51.5	29	0	0	0
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	14.0	51.9	50	0	0	0
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	13.9	51.7	50	0	0	0
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	51.9	50	0	0	0
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 Marestalk in Soybean.

Project Code: 06-Alstat-W50 Location: Murphysboro, IL
 Investigator: Bryan Young

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
 10-21-06 10-21-06 10-21-06 6-23-06 7-14-06 7-28-06
 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	14.3	51.5	56	0	0	0
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	13.8	52.1	33	0	0	0
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	14.1	51.8	45	0	0	0
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)										0.61	1.13	13.3	0.0	0.0	0.0
Replicate F										1.691	1.337	0.884	0.000	0.000	0.000
Replicate Prob(F)										0.2056	0.2814	0.4244	1.0000	1.0000	1.0000
Treatment F										0.649	0.529	12.875	0.000	0.000	0.000
Treatment Prob(F)										0.7895	0.8836	0.0001	1.0000	1.0000	1.0000

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

Project Code: 06-Alstat-W50 Location: Murphysboro, IL
 Investigator: Bryan Young

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	ERICA							
						ERICA<6	ERICA<6	ERICA>12	ERICA>12				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	Control Percent	Control Percent	Control Percent	Control Percent
										6-9-06	6-23-06	6-9-06	6-23-06
										14 DA-A	28 DA-A	14 DA-A	28 DA-A
1	NONTREATED									0	0	0	0
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	2-20*MT	A	20	28	30	32
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	68	68	53	62
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	62	47	43	50
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	65	73	55	68
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	18	30	37	45
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	23	33	32	32
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	52	57	52	63
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	60	57	48	65
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	95	96	93
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	97	97	95
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	98	96	97
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 Marestalk in Soybean.

Project Code: 06-Alstat-W50 Location: Murphysboro, IL
 Investigator: Bryan Young

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	ERICA<6 Control Percent 6-9-06 14 DA-A	ERICA<6 Control Percent 6-23-06 28 DA-A	ERICA>12 Control Percent 6-9-06 14 DA-A	ERICA>12 Control Percent 6-23-06 28 DA-A
-----------	-----------	------------------	-------------	-------------	-------------------	--	---	---	--

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	99	97	95
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	68	72	63	67
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	93	99	83	98
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)										12.9	12.9	12.8	9.8
Replicate F										1.272	1.336	0.577	1.927
Replicate Prob(F)										0.2960	0.2792	0.5680	0.1645
Treatment F										56.184	49.460	44.763	73.526
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

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

Project Code: 06-Alstat-W50 Location: Murphysboro, IL
 Investigator: Bryan Young

Weed Code		Crop Code		Rating Data Type		Rating Unit		Rating Date		Trt-Eval Interval		ERICA_OA	ERICA_OA	ERICA_OA	ERICA_OA	ERICA
Trt	Treatment	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	Control Percent	Control Percent	Control Percent	Control Percent	Plants		
										6-9-06	6-23-06	7-14-06	7-28-06	1.0 m2		
										14 DA-A	28 DA-A	14 DA-C	28 DA-C	EOS		
1	NONTREATED									0	0	0	0	37.3		
2	ROUNDUP W-MAX	4.5 SL		1.12 lb ae/a		32 fl oz/a		2-20*MT	A	25	25	58	65	40.0		
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	61	61	83	86	4.0		
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	53	53	68	73	14.0		
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	60	60	87	91	2.7		
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	28	28	67	67	22.0		
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	28	28	48	52	24.7		
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	52	52	72	71	16.7		
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	54	54	67	68	20.0		
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	97	97	94	96	0.0		
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	98	97	97	0.0		
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	98	96	97	0.0		
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 Marestalk in Soybean.

Project Code: 06-Alstat-W50 Location: Murphysboro, IL
 Investigator: Bryan Young

										ERICA_OA	ERICA_OA	ERICA_OA	ERICA_OA	ERICA
										Control	Control	Control	Control	Plants
										Percent	Percent	Percent	Percent	1.0 m2
										6-9-06	6-23-06	7-14-06	7-28-06	10-21-06
										14 DA-A	28 DA-A	14 DA-C	28 DA-C	EOS
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	98	98	97	99	0.7
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	66	66	75	79	13.3
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	88	88	98	99	0.0
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)										10.8	10.8	7.8	9.4	14.56
Replicate F										0.902	0.902	3.198	4.280	2.666
Replicate Prob(F)										0.4172	0.4172	0.0561	0.0239	0.0871
Treatment F										69.303	69.303	91.879	63.271	7.396
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

Trial Comments

1. Protocol: SIU, various.
2. Ratings: CI/WC 14 + 28 DAT; for marestalk record WC separately for plants that are <6", 6-12", and >12".
3. ERICA<6 = Plants that were less than 6 inches in height at application.
 ERICA>12 = Plants that were greater than 12 inches in height at application.
 ERICA_OA = Overall control.
 DA-A = Days after 2-20"MT application. DA-C = Days after POST application.
 1.0 m2 = One square meter. EOS = End of season.
4. Harvested 10-21-06, (2) 30 inch rows by 27 ft.