

Glyphosate-Resistant Marestalk or Waterhemp Control

Southern Illinois University

Fall Herbicide Applications for Glyphosate-Resistant Marestalk Management in Soybean.

Trial ID: 08-YRC-GenFallSoy Location: Young Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
City State Zip Country: Murphysboro IL 62966 USA
Trial Status: FINAL **Initiation Date:** 11-17-07

Objectives: Evaluate fall herbicide applications with and without residual herbicides for control of glyphosate-resistant marestalk and summer annual weeds prior to planting soybean.

Crop 1: GLXMA soybean **Variety:** AG 4404 RR/STS
Planting Method: Seeded **Planting Date:** 05-06-08
Rate, Unit: 185000 S/A **Depth, Unit:** 1.75 IN
Row Spacing, Unit: 30 IN
Soil Moisture: ABOVE NORMAL **Soil Temp, Unit:** 64 F

Pest 1 Type: W **Code:** ERICA *Conyza canadensis* (L.) Crong. horseweed
Pest Description: glyphosate-resistant marestalk
Pest 2 Type: W **Code:** LAMAM *Lamium amplexicaule* L. henbit
Pest 3 Type: W **Code:** STEME *Stellaria media* (L.) Vill. chickweed, common
Pest 4 Type: W **Code:** THLAR *Thlaspi arvense* L. pennycress, field
Pest 5 Type: W **Code:** GERCA *Geranium carolinianum* L. geranium, Carolina
Pest 6 Type: W **Code:** AMATA *Amaranthus rudis* Sauer waterhemp, common

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 30 FT **Tillage Type:** NO-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Prior Crops, Year
 1. GLXMA 2007

Field Prep./Maintenance: N 0 LB/A, P205 30 LB/A, K20 80 LB/A

% OM: 1.2 **Texture:** VERY FINE SANDY LOAM
pH: 4.6 **Soil Name:** ALVIN
CEC: 6.2 **Fert. Level:** P1 94 LB/A, K 208 LB/A

	Application Description		
	A	B	C
Application Date:	11-17-07	04-02-08	06-12-08
Time of Day:	15:15	17:30	8:00
Application Method:	Spray	Spray	Spray
Application Timing:	FALL	APRIL1	POST
Application Placement:	BROFOL	BROFOL	BROFOL
Air Temperature, Unit:	69 F	58 F	78 F
% Relative Humidity:	38	40	73
Wind Velocity, Unit:	1 MPH	4 MPH	4 MPH
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	54 F	57 F	78 F
Soil Moisture:	NORMAL	NORMAL	BELNOR
% Cloud Cover:	15	80	10
	11-17-07	04-02-08	06-12-08
Crop stage at application:	NA	NA	V2-V3
Height Min, Max (inch):			7 11

Fall Herbicide Applications for Glyphosate-Resistant Marestalk Management in Soybean.

Trial ID: 08-YRC-GenFallSoy Location: Young Res. Center

	Pest Stage At Each Application					
Application Date:	11-17-07	04-02-08	06-12-08			
Weed Code:	ERICA	ERICA	ERICA			
Stage Majority (leaves):	4	4	50			
Stage Min, Max:	2 4	2 4	6 50			
Height Majority:	0.5 IN	0.25 IN	20 IN			
Height Min, Max:	0.25 0.5	0.12 0.5	1 20			
Density, Unit:	3 FT2	1 FT2	5 FT2			
Weed Code:	LAMAM	LAMAM	LAMAM			
Stage Majority (leaves):	6	10+	NA			
Stage Min, Max:	2 6	2 10				
Height Majority:	2 IN	4 IN				
Height Min, Max:	0.5 2	0.5 6				
Density, Unit:	1 FT2	1 FT2				
Weed Code:	STEME	STEME	STEME			
Stage Majority (leaves):	6	NA	NA			
Stage Min, Max:	2 6					
Height Majority:	0.5 IN					
Height Min, Max:	0.25 0.5					
Density, Unit:	1 FT2					
Weed Code:	THLAR	THLAR	THLAR			
Stage Majority (leaves):	4	NA	NA			
Stage Min, Max:	2 4					
Height Majority:	1 IN					
Height Min, Max:	0.5 1					
Density, Unit:	1 FT2					
Weed Code:	GERCA	GERCA	GERCA			
Stage Majority (leaves):	8	8	36			
Stage Min, Max:	6 8	6 8	26 36			
Height Majority:	2 IN	2 IN	18 IN			
Height Min, Max:	0.5 2	0.5 2	12 18			
Density, Unit:	1 FT2	1 FT2	1 FT2			
Weed Code:	AMATA	AMATA	AMATA			
Stage Majority (leaves):	NA	NA	10			
Stage Min, Max:			2 10			
Height Majority:			6 IN			
Height Min, Max:			0.5 6			
Density, Unit:			3 FT2			

Application Equipment

Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	30 PSI	30 PSI	30 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

Fall Herbicide Applications for Glyphosate-Resistant Marestalk Management in Soybean.

Trial ID: 08-YRC-GenFallSoy Location: Young Res. Center

Pest Code	Crop Code	Rating Date	Rating Data Type	Rating Unit	Rating Timing	Trt-Eval Interval	ERICA-HR						
							12-01-07 Control Percent	03-01-08 Control Percent	04-01-08 Control Percent	05-06-08 Control Percent	05-20-08 Control Percent	06-03-08 Control Percent	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	14 DA-A	0 DAP	14 DAP	28 DAP
1	NONTREATED									0 b	0 b	0 b	0 g
2	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A	98 a	99 a	99 a	17 f
2	EXPRESS XP	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A				
2	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A				
2	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C				
2	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C				
3	VALOR XLT	40.3	WG			3	oz/a	FALL	A	99 a	99 a	99 a	79 cd
3	->VALOR SX	51	WG	0.056	lb ai/a			FALL	A				
3	->CLASSIC	25	WG	0.0194	lb ai/a			FALL	A				
3	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A				
3	EXPRESS XP	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A				
3	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A				
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C				
3	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C				
4	VALOR XLT	40.3	WG			3	oz/a	FALL	A	99 a	99 a	99 a	72 de
4	->VALOR SX	51	WG	0.056	lb ai/a			FALL	A				
4	->CLASSIC	25	WG	0.0194	lb ai/a			FALL	A				
4	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A				
4	AUTUMN	10	WG	0.00075	lb ai/a	0.12	oz/a	FALL	A				
4	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A				
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C				
4	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C				
5	VALOR XLT	40.3	WG			3	oz/a	FALL	A	99 a	99 a	99 a	70 de
5	->VALOR SX	51	WG	0.056	lb ai/a			FALL	A				
5	->CLASSIC	25	WG	0.0194	lb ai/a			FALL	A				
5	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A				
5	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A				
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C				
5	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C				
6	CANOPY EX	29.5	WG			1.5	oz/a	FALL	A	99 a	99 a	99 a	74 d
6	->CLASSIC	25	WG	0.0212	lb ai/a			FALL	A				
6	->EXPRESS XP	75	WG	0.00636	lb ai/a			FALL	A				
6	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A				
6	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A				
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C				
6	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C				
7	VALOR XLT	40.3	WG			4	oz/a	FALL	A	96 a	99 a	99 a	86 bc
7	->VALOR SX	51	WG	0.075	lb ai/a			FALL	A				
7	->CLASSIC	25	WG	0.0258	lb ai/a			FALL	A				
7	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A				
7	EXPRESS XP	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A				
7	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A				
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C				
7	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C				
8	VALOR XLT	40.3	WG			5	oz/a	FALL	A	98 a	99 a	99 a	88 b
8	->VALOR SX	51	WG	0.093	lb ai/a			FALL	A				
8	->CLASSIC	25	WG	0.0322	lb ai/a			FALL	A				
8	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A				
8	EXPRESS XP	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A				
8	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A				
8	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C				
8	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C				
9	VALOR XLT	40.3	WG			6	oz/a	FALL	A	99 a	99 a	99 a	94 ab
9	->VALOR SX	51	WG	0.112	lb ai/a			FALL	A				
9	->CLASSIC	25	WG	0.0387	lb ai/a			FALL	A				
9	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A				
9	EXPRESS XP	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A				
9	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A				
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C				
9	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C				

Fall Herbicide Applications for Glyphosate-Resistant Marestalk Management in Soybean.

Trial ID: 08-YRC-GenFallSoy Location: Young Res. Center

Pest Code		ERICA-HR													
Crop Code		12-01-07	03-01-08	04-01-08	05-06-08	05-20-08	06-03-08								
Rating Date		Control	Control	Control	Control	Control	Control								
Rating Data Type		Percent	Percent	Percent	Percent	Percent	Percent								
Rating Unit															
Rating Timing															
Trt-Eval Interval		14 DA-A			0 DAP	14 DAP	28 DAP								
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 a	99 a	99 a	55 b	42 g	15 f
10	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A						
10	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A						
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
10	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C						
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 a	99 a	99 a	96 a	91 a-d	75 d
11	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A						
11	VALOR XLT	40.3	WG			2	oz/a	FALL	A						
11	->VALOR SX	51	WG	0.0374	lb ai/a			FALL	A						
11	->CLASSIC	25	WG	0.0129	lb ai/a			FALL	A						
11	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A						
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
11	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C						
12	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 a	99 a	99 a	98 a	93 a-d	86 bc
12	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A						
12	VALOR XLT	40.3	WG			3	oz/a	FALL	A						
12	->VALOR SX	51	WG	0.056	lb ai/a			FALL	A						
12	->CLASSIC	25	WG	0.0194	lb ai/a			FALL	A						
12	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A						
12	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
12	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C						
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 a	99 a	99 a	95 a	83 ef	73 d
13	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A						
13	CANOPY EX	29.5	WG			1	oz/a	FALL	A						
13	->CLASSIC	25	WG	0.0142	lb ai/a			FALL	A						
13	->EXPRESS XP	75	WG	0.00424	lb ai/a			FALL	A						
13	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A						
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
13	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C						
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	96 a	99 a	99 a	95 a	81 f	63 e
14	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A						
14	CANOPY EX	29.5	WG			1.5	oz/a	FALL	A						
14	->CLASSIC	25	WG	0.0212	lb ai/a			FALL	A						
14	->EXPRESS XP	75	WG	0.00636	lb ai/a			FALL	A						
14	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A						
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
14	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C						
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 a	99 a	99 a	98 a	96 abc	88 b
15	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A						
15	CANOPY EX	29.5	WG			2	oz/a	FALL	A						
15	->CLASSIC	25	WG	0.0283	lb ai/a			FALL	A						
15	->EXPRESS XP	75	WG	0.00848	lb ai/a			FALL	A						
15	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A						
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
15	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C						
16	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 a	99 a	99 a	99 a	98 a	98 a
16	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A						
16	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A						
16	AUTHORITY FIRST	70	DF	0.14	lb ai/a	3.2	oz/a	APRIL1	B						
16	RAGE D-TECH	4.06	EC	0.38	lb ai/a	12	fl oz/a	APRIL1	B						
16	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	APRIL1	B						
16	PRIME OIL COC	100	LIQ	1	% v/v	1	% v/v	APRIL1	B						
16	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
16	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C						
17	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	98 a	99 a	99 a	37 c	32 h	10 f
17	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A						
17	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A						
17	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A						
17	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
17	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C						

Fall Herbicide Applications for Glyphosate-Resistant Marestalk Management in Soybean.

Trial ID: 08-YRC-GenFallSoy Location: Young Res. Center

Pest Code	ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR
Crop Code						
Rating Date	12-01-07	03-01-08	04-01-08	05-06-08	05-20-08	06-03-08
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing						
Trt-Eval Interval	14 DA-A			0 DAP	14 DAP	28 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR
18	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 a	99 a	99 a	47 bc	27 h	10 f
18	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A						
18	AUTHORITY FIRST	70	DF	0.14	lb ai/a	3.2	oz/a	FALL	A						
18	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A						
18	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
18	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C						
LSD (P=.05)										3.2	0.0	0.0	13.1	7.6	9.1
Replicate F										1.064	0.000	0.000	1.519	2.150	1.715
Replicate Prob(F)										0.3563	1.0000	1.0000	0.2335	0.1321	0.1952
Treatment F										440.542	0.000	0.000	40.761	132.005	114.529
Treatment Prob(F)										0.0001	1.0000	1.0000	0.0001	0.0001	0.0001

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

Fall Herbicide Applications for Glyphosate-Resistant Marestalk Management in Soybean.

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Pest Code								LAMAM	LAMAM	LAMAM	LAMAM	STEME	STEME	STEME	STEME	
Crop Code								12-01-07	03-01-08	04-01-08	05-06-08	12-01-07	03-01-08	04-01-08	05-06-08	
Rating Date								Control	Control	Control	Control	Control	Control	Control	Control	
Rating Data Type								Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
Rating Unit																
Rating Timing																
Trt-Eval Interval								14 DA-A			0 DAP	14 DA-A			0 DAP	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
1	NONTREATED									0 e	0 b	0 c	0 b	0 b	0 b	0 b
2	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A	93 d	99 a	99 b	99 a	96 a	99 a	99 a
2	EXPRESS XP	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A							
2	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A							
2	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
2	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
3	VALOR XLT	40.3	WG			3	oz/a	FALL	A	98 ab	99 a	99 a	99 a	98 a	99 a	99 a
3	->VALOR SX	51	WG	0.056	lb ai/a			FALL	A							
3	->CLASSIC	25	WG	0.0194	lb ai/a			FALL	A							
3	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A							
3	EXPRESS XP	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A							
3	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A							
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
3	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
4	VALOR XLT	40.3	WG			3	oz/a	FALL	A	99 a	99 a	99 a	99 a	99 a	99 a	99 a
4	->VALOR SX	51	WG	0.056	lb ai/a			FALL	A							
4	->CLASSIC	25	WG	0.0194	lb ai/a			FALL	A							
4	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A							
4	AUTUMN	10	WG	0.00075	lb ai/a	0.12	oz/a	FALL	A							
4	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A							
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
4	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
5	VALOR XLT	40.3	WG			3	oz/a	FALL	A	99 a	99 a	99 a	99 a	99 a	99 a	99 a
5	->VALOR SX	51	WG	0.056	lb ai/a			FALL	A							
5	->CLASSIC	25	WG	0.0194	lb ai/a			FALL	A							
5	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A							
5	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A							
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
5	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
6	CANOPY EX	29.5	WG			1.5	oz/a	FALL	A	96 bc	99 a	99 a	99 a	99 a	99 a	99 a
6	->CLASSIC	25	WG	0.0212	lb ai/a			FALL	A							
6	->EXPRESS XP	75	WG	0.00636	lb ai/a			FALL	A							
6	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A							
6	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A							
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
6	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
7	VALOR XLT	40.3	WG			4	oz/a	FALL	A	99 a	99 a	99 a	99 a	99 a	99 a	99 a
7	->VALOR SX	51	WG	0.075	lb ai/a			FALL	A							
7	->CLASSIC	25	WG	0.0258	lb ai/a			FALL	A							
7	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A							
7	EXPRESS XP	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A							
7	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A							
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
7	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
8	VALOR XLT	40.3	WG			5	oz/a	FALL	A	99 a	99 a	99 a	99 a	99 a	99 a	99 a
8	->VALOR SX	51	WG	0.093	lb ai/a			FALL	A							
8	->CLASSIC	25	WG	0.0322	lb ai/a			FALL	A							
8	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A							
8	EXPRESS XP	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A							
8	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A							
8	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
8	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
9	VALOR XLT	40.3	WG			6	oz/a	FALL	A	99 a	99 a	99 a	99 a	99 a	99 a	99 a
9	->VALOR SX	51	WG	0.112	lb ai/a			FALL	A							
9	->CLASSIC	25	WG	0.0387	lb ai/a			FALL	A							
9	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A							
9	EXPRESS XP	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A							
9	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A							
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
9	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							

Fall Herbicide Applications for Glyphosate-Resistant Marestalk Management in Soybean.

Trial ID: 08-YRC-GenFallSoy Location: Young Res. Center

Pest Code	LAMAM	LAMAM	LAMAM	LAMAM	STEME	STEME	STEME	STEME								
Crop Code	12-01-07	03-01-08	04-01-08	05-06-08	12-01-07	03-01-08	04-01-08	05-06-08								
Rating Date	Control	Control	Control	Control	Control	Control	Control	Control								
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent								
Rating Unit																
Rating Timing																
Trt-Eval Interval	14 DA-A			0 DAP	14 DA-A			0 DAP								
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	98 ab	99 a	99 a	99 a	99 a	99 a	99 a
10	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
10	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A							
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
10	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 ab	99 a	99 a	99 a	97 a	99 a	99 a
11	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
11	VALOR XLT	40.3	WG			2	oz/a	FALL	A							
11	->VALOR SX	51	WG	0.0374	lb ai/a			FALL	A							
11	->CLASSIC	25	WG	0.0129	lb ai/a			FALL	A							
11	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A							
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
11	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
12	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 a	99 a	99 a	99 a	99 a	99 a	99 a
12	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
12	VALOR XLT	40.3	WG			3	oz/a	FALL	A							
12	->VALOR SX	51	WG	0.056	lb ai/a			FALL	A							
12	->CLASSIC	25	WG	0.0194	lb ai/a			FALL	A							
12	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A							
12	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
12	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	93 d	99 a	99 a	99 a	99 a	99 a	99 a
13	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
13	CANOPY EX	29.5	WG			1	oz/a	FALL	A							
13	->CLASSIC	25	WG	0.0142	lb ai/a			FALL	A							
13	->EXPRESS XP	75	WG	0.00424	lb ai/a			FALL	A							
13	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A							
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
13	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	97 abc	99 a	99 a	99 a	97 a	99 a	99 a
14	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
14	CANOPY EX	29.5	WG			1.5	oz/a	FALL	A							
14	->CLASSIC	25	WG	0.0212	lb ai/a			FALL	A							
14	->EXPRESS XP	75	WG	0.00636	lb ai/a			FALL	A							
14	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A							
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
14	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	95 cd	99 a	99 a	99 a	97 a	99 a	99 a
15	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
15	CANOPY EX	29.5	WG			2	oz/a	FALL	A							
15	->CLASSIC	25	WG	0.0283	lb ai/a			FALL	A							
15	->EXPRESS XP	75	WG	0.00848	lb ai/a			FALL	A							
15	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A							
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
15	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
16	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 ab	99 a	99 a	99 a	98 a	99 a	99 a
16	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
16	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A							
16	AUTHORITY FIRST	70	DF	0.14	lb ai/a	3.2	oz/a	APRIL1	B							
16	RAGE D-TECH	4.06	EC	0.38	lb ai/a	12	fl oz/a	APRIL1	B							
16	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	APRIL1	B							
16	PRIME OIL COC	100	LIQ	1	% v/v	1	% v/v	APRIL1	B							
16	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
16	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
17	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	97 abc	99 a	99 a	99 a	99 a	99 a	99 a
17	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
17	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A							
17	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A							
17	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
17	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							

Fall Herbicide Applications for Glyphosate-Resistant Marestalk Management in Soybean.

Trial ID: 08-YRC-GenFallSoy Location: Young Res. Center

		LAMAM	LAMAM	LAMAM	LAMAM	STEME	STEME	STEME	STEME								
Pest Code																	
Crop Code																	
Rating Date		12-01-07	03-01-08	04-01-08	05-06-08	12-01-07	03-01-08	04-01-08	05-06-08								
Rating Data Type		Control	Control	Control	Control	Control	Control	Control	Control								
Rating Unit		Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent								
Rating Timing																	
Trt-Eval Interval		14 DA-A			0 DAP	14 DA-A			0 DAP								
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code								
18	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 a	99 a	99 a	99 a	99 a	99 a		
18	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A								
18	AUTHORITY FIRST	70	DF	0.14	lb ai/a	3.2	oz/a	FALL	A								
18	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A								
18	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C								
18	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C								
LSD (P=.05)										2.5	0.0	0.2	0.0	2.8	0.0	0.0	0.0
Replicate F										0.025	0.000	1.000	0.000	1.312	0.000	0.000	0.000
Replicate Prob(F)										0.9756	1.0000	0.3784	1.0000	0.2826	1.0000	1.0000	1.0000
Treatment F										709.885	0.000	88175.071	0.000	582.422	0.000	0.000	0.000
Treatment Prob(F)										0.0001	1.0000	0.0001	1.0000	0.0001	1.0000	1.0000	1.0000

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

Fall Herbicide Applications for Glyphosate-Resistant Marestalk Management in Soybean.

Trial ID: 08-YRC-GenFallSoy Location: Young Res. Center

Pest Code									THLAR	THLAR	THLAR	GERCA	GERCA	AMATA	AMATA	
Crop Code									03-01-08	04-01-08	05-06-08	05-20-08	06-03-08	05-20-08	06-03-08	
Rating Date									Control	Control	Control	Control	Control	Control	Control	
Rating Data Type									Percent	Percent	Percent	Percent	Percent	Percent	Percent	
Rating Unit																
Rating Timing																
Trt-Eval Interval											0 DAP	14 DAP	28 DAP	14 DAP	28 DAP	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
1	NONTREATED									0 b	0 c	0 b	0 c	0 d	0 f	0 d
2	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A	99 a	99 b	99 a	99 a	99 a	60 a-d	73 ab
2	EXPRESS XP	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A							
2	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A							
2	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
2	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
3	VALOR XLT	40.3	WG			3	oz/a	FALL	A	99 a	99 a	99 a	98 a	98 ab	33 def	13 cd
3	->VALOR SX	51	WG	0.056	lb ai/a			FALL	A							
3	->CLASSIC	25	WG	0.0194	lb ai/a			FALL	A							
3	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A							
3	EXPRESS XP	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A							
3	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A							
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
3	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
4	VALOR XLT	40.3	WG			3	oz/a	FALL	A	99 a	99 a	99 a	93 ab	95 abc	47 cde	23 cd
4	->VALOR SX	51	WG	0.056	lb ai/a			FALL	A							
4	->CLASSIC	25	WG	0.0194	lb ai/a			FALL	A							
4	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A							
4	AUTUMN	10	WG	0.00075	lb ai/a	0.12	oz/a	FALL	A							
4	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A							
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
4	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
5	VALOR XLT	40.3	WG			3	oz/a	FALL	A	99 a	99 a	99 a	94 ab	93 abc	87 abc	77 ab
5	->VALOR SX	51	WG	0.056	lb ai/a			FALL	A							
5	->CLASSIC	25	WG	0.0194	lb ai/a			FALL	A							
5	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A							
5	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A							
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
5	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
6	CANOPY EX	29.5	WG			1.5	oz/a	FALL	A	99 a	99 a	99 a	96 ab	96 abc	65 a-d	43 bcd
6	->CLASSIC	25	WG	0.0212	lb ai/a			FALL	A							
6	->EXPRESS XP	75	WG	0.00636	lb ai/a			FALL	A							
6	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A							
6	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A							
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
6	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
7	VALOR XLT	40.3	WG			4	oz/a	FALL	A	99 a	99 a	99 a	99 a	99 a	97 a	91 a
7	->VALOR SX	51	WG	0.075	lb ai/a			FALL	A							
7	->CLASSIC	25	WG	0.0258	lb ai/a			FALL	A							
7	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A							
7	EXPRESS XP	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A							
7	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A							
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
7	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
8	VALOR XLT	40.3	WG			5	oz/a	FALL	A	99 a	99 a	99 a	93 ab	94 abc	60 a-e	56 abc
8	->VALOR SX	51	WG	0.093	lb ai/a			FALL	A							
8	->CLASSIC	25	WG	0.0322	lb ai/a			FALL	A							
8	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A							
8	EXPRESS XP	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A							
8	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A							
8	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
8	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
9	VALOR XLT	40.3	WG			6	oz/a	FALL	A	99 a	99 a	99 a	99 a	99 a	91 ab	74 ab
9	->VALOR SX	51	WG	0.112	lb ai/a			FALL	A							
9	->CLASSIC	25	WG	0.0387	lb ai/a			FALL	A							
9	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A							
9	EXPRESS XP	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A							
9	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A							
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
9	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							

Fall Herbicide Applications for Glyphosate-Resistant Marestalk Management in Soybean.

Trial ID: 08-YRC-GenFallSoy Location: Young Res. Center

										THLAR	THLAR	THLAR	GERCA	GERCA	AMATA	AMATA
										03-01-08	04-01-08	05-06-08	05-20-08	06-03-08	05-20-08	06-03-08
										Control	Control	Control	Control	Control	Control	Control
										Percent	Percent	Percent	Percent	Percent	Percent	Percent
												0 DAP	14 DAP	28 DAP	14 DAP	28 DAP
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 a	99 a	99 a	99 a	99 a	17 ef	27 cd
10	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
10	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A							
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
10	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 a	99 a	99 a	99 a	99 a	70 a-d	47 abc
11	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
11	VALOR XLT	40.3	WG			2	oz/a	FALL	A							
11	->VALOR SX	51	WG	0.0374	lb ai/a			FALL	A							
11	->CLASSIC	25	WG	0.0129	lb ai/a			FALL	A							
11	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A							
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
11	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
12	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 a	99 a	99 a	99 a	99 a	76 a-d	47 abc
12	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
12	VALOR XLT	40.3	WG			3	oz/a	FALL	A							
12	->VALOR SX	51	WG	0.056	lb ai/a			FALL	A							
12	->CLASSIC	25	WG	0.0194	lb ai/a			FALL	A							
12	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A							
12	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
12	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 a	99 a	99 a	93 ab	96 abc	0 f	0 d
13	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
13	CANOPY EX	29.5	WG			1	oz/a	FALL	A							
13	->CLASSIC	25	WG	0.0142	lb ai/a			FALL	A							
13	->EXPRESS XP	75	WG	0.00424	lb ai/a			FALL	A							
13	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A							
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
13	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 a	99 a	99 a	86 ab	90 bc	0 f	0 d
14	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
14	CANOPY EX	29.5	WG			1.5	oz/a	FALL	A							
14	->CLASSIC	25	WG	0.0212	lb ai/a			FALL	A							
14	->EXPRESS XP	75	WG	0.00636	lb ai/a			FALL	A							
14	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A							
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
14	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 a	99 a	99 a	99 a	99 a	0 f	0 d
15	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
15	CANOPY EX	29.5	WG			2	oz/a	FALL	A							
15	->CLASSIC	25	WG	0.0283	lb ai/a			FALL	A							
15	->EXPRESS XP	75	WG	0.00848	lb ai/a			FALL	A							
15	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A							
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
15	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
16	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 a	99 a	99 a	98 a	98 ab	70 a-d	17 cd
16	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
16	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A							
16	AUTHORITY FIRST	70	DF	0.14	lb ai/a	3.2	oz/a	APRIL1	B							
16	RAGE D-TECH	4.06	EC	0.38	lb ai/a	12	fl oz/a	APRIL1	B							
16	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	APRIL1	B							
16	PRIME OIL COC	100	LIQ	1	% v/v	1	% v/v	APRIL1	B							
16	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
16	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
17	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 a	99 a	99 a	89 ab	93 abc	53 b-e	53 abc
17	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
17	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A							
17	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A							
17	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
17	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							

Fall Herbicide Applications for Glyphosate-Resistant Marestalk Management in Soybean.

Trial ID: 08-YRC-GenFallSoy Location: Young Res. Center

										THLAR	THLAR	THLAR	GERCA	GERCA	AMATA	AMATA
Pest Code	Crop Code	Rating Date	Rating Data Type	Rating Unit	Rating Timing	Trt-Eval Interval			03-01-08	04-01-08	05-06-08	05-20-08	06-03-08	05-20-08	06-03-08	
									Control	Control	Control	Control	Control	Control	Control	Control
									Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
											0 DAP	14 DAP	28 DAP	14 DAP	28 DAP	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
18	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 a	99 a	99 a	85 b	88 c	43 de	23 cd
18	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
18	AUTHORITY FIRST	70	DF	0.14	lb ai/a	3.2	oz/a	FALL	A							
18	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A							
18	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C							
18	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C							
LSD (P=.05)										0.0	0.2	0.0	12.9	8.9	43.3	45.8
Replicate F										0.000	1.000	0.000	0.994	0.388	0.219	0.082
Replicate Prob(F)										1.0000	0.3784	1.0000	0.3804	0.6812	0.8045	0.9210
Treatment F										0.000	88175.071	0.000	26.270	54.902	4.851	3.482
Treatment Prob(F)										1.0000	0.0001	1.0000	0.0001	0.0001	0.0001	0.0010

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

Fall Herbicide Applications for Glyphosate-Resistant Marestalk Management in Soybean.

Trial ID: 08-YRC-GenFallSoy Location: Young Res. Center

Pest Code		
Crop Code		
Rating Date	GLXMA 05-20-08	GLXMA 06-03-08
Rating Data Type	Injury	Injury
Rating Unit	Percent	Percent
Rating Timing		
Trt-Eval Interval	14 DAP	28 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
1	NONTREATED									0 a	0 a
2	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A	0 a	0 a
2	EXPRESS XP	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A		
2	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A		
2	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C		
2	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C		
3	VALOR XLT	40.3	WG			3	oz/a	FALL	A	0 a	0 a
3	->VALOR SX	51	WG	0.056	lb ai/a			FALL	A		
3	->CLASSIC	25	WG	0.0194	lb ai/a			FALL	A		
3	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A		
3	EXPRESS XP	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A		
3	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A		
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C		
3	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C		
4	VALOR XLT	40.3	WG			3	oz/a	FALL	A	0 a	0 a
4	->VALOR SX	51	WG	0.056	lb ai/a			FALL	A		
4	->CLASSIC	25	WG	0.0194	lb ai/a			FALL	A		
4	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A		
4	AUTUMN	10	WG	0.00075	lb ai/a	0.12	oz/a	FALL	A		
4	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A		
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C		
4	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C		
5	VALOR XLT	40.3	WG			3	oz/a	FALL	A	0 a	0 a
5	->VALOR SX	51	WG	0.056	lb ai/a			FALL	A		
5	->CLASSIC	25	WG	0.0194	lb ai/a			FALL	A		
5	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A		
5	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A		
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C		
5	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C		
6	CANOPY EX	29.5	WG			1.5	oz/a	FALL	A	0 a	0 a
6	->CLASSIC	25	WG	0.0212	lb ai/a			FALL	A		
6	->EXPRESS XP	75	WG	0.00636	lb ai/a			FALL	A		
6	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A		
6	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A		
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C		
6	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C		
7	VALOR XLT	40.3	WG			4	oz/a	FALL	A	0 a	0 a
7	->VALOR SX	51	WG	0.075	lb ai/a			FALL	A		
7	->CLASSIC	25	WG	0.0258	lb ai/a			FALL	A		
7	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A		
7	EXPRESS XP	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A		
7	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A		
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C		
7	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C		
8	VALOR XLT	40.3	WG			5	oz/a	FALL	A	0 a	0 a
8	->VALOR SX	51	WG	0.093	lb ai/a			FALL	A		
8	->CLASSIC	25	WG	0.0322	lb ai/a			FALL	A		
8	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A		
8	EXPRESS XP	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A		
8	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A		
8	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C		
8	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C		
9	VALOR XLT	40.3	WG			6	oz/a	FALL	A	0 a	0 a
9	->VALOR SX	51	WG	0.112	lb ai/a			FALL	A		
9	->CLASSIC	25	WG	0.0387	lb ai/a			FALL	A		
9	2,4-D LV4	3.8	EC	0.95	lb ai/a	1	qt/a	FALL	A		
9	EXPRESS XP	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A		
9	PRIME OIL COC	100	LIQ	1	pt/a	1	pt/a	FALL	A		
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C		
9	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C		

Fall Herbicide Applications for Glyphosate-Resistant Marestalk Management in Soybean.

Trial ID: 08-YRC-GenFallSoy Location: Young Res. Center

Pest Code		
Crop Code	GLXMA	GLXMA
Rating Date	05-20-08	06-03-08
Rating Data Type	Injury	Injury
Rating Unit	Percent	Percent
Rating Timing		
Trt-Eval Interval	14 DAP	28 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0 a	0 a
10	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A		
10	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A		
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C		
10	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C		
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0 a	0 a
11	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A		
11	VALOR XLT	40.3	WG			2	oz/a	FALL	A		
11	->VALOR SX	51	WG	0.0374	lb ai/a			FALL	A		
11	->CLASSIC	25	WG	0.0129	lb ai/a			FALL	A		
11	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A		
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C		
11	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C		
12	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0 a	0 a
12	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A		
12	VALOR XLT	40.3	WG			3	oz/a	FALL	A		
12	->VALOR SX	51	WG	0.056	lb ai/a			FALL	A		
12	->CLASSIC	25	WG	0.0194	lb ai/a			FALL	A		
12	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A		
12	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C		
12	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C		
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0 a	0 a
13	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A		
13	CANOPY EX	29.5	WG			1	oz/a	FALL	A		
13	->CLASSIC	25	WG	0.0142	lb ai/a			FALL	A		
13	->EXPRESS XP	75	WG	0.00424	lb ai/a			FALL	A		
13	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A		
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C		
13	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C		
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0 a	0 a
14	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A		
14	CANOPY EX	29.5	WG			1.5	oz/a	FALL	A		
14	->CLASSIC	25	WG	0.0212	lb ai/a			FALL	A		
14	->EXPRESS XP	75	WG	0.00636	lb ai/a			FALL	A		
14	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A		
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C		
14	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C		
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0 a	0 a
15	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A		
15	CANOPY EX	29.5	WG			2	oz/a	FALL	A		
15	->CLASSIC	25	WG	0.0283	lb ai/a			FALL	A		
15	->EXPRESS XP	75	WG	0.00848	lb ai/a			FALL	A		
15	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A		
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C		
15	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C		
16	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0 a	0 a
16	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A		
16	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A		
16	AUTHORITY FIRST	70	DF	0.14	lb ai/a	3.2	oz/a	APRIL1	B		
16	RAGE D-TECH	4.06	EC	0.38	lb ai/a	12	fl oz/a	APRIL1	B		
16	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	APRIL1	B		
16	PRIME OIL COC	100	LIQ	1	% v/v	1	% v/v	APRIL1	B		
16	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C		
16	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C		
17	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0 a	0 a
17	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A		
17	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A		
17	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A		
17	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C		
17	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C		

Fall Herbicide Applications for Glyphosate-Resistant Marestalk Management in Soybean.

Trial ID: 08-YRC-GenFallSoy Location: Young Res. Center

Pest Code		
Crop Code	GLXMA	GLXMA
Rating Date	05-20-08	06-03-08
Rating Data Type	Injury	Injury
Rating Unit	Percent	Percent
Rating Timing		
Trt-Eval Interval	14 DAP	28 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
18	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0 a	0 a
18	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A		
18	AUTHORITY FIRST	70	DF	0.14	lb ai/a	3.2	oz/a	FALL	A		
18	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	FALL	A		
18	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C		
18	AMS - LIQUID	100	LIQ	5	% v/v	5	% v/v	POST	C		
LSD (P=.05)										0.0	0.0
Replicate F										0.000	0.000
Replicate Prob(F)										1.0000	1.0000
Treatment F										0.000	0.000
Treatment Prob(F)										1.0000	1.0000

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

Trial Comments

1. Protocol: Valent (MD 64.01), Monsanto, FMC, Bayer.
2. Ratings: WC 14-21 DA-A, March 1, April 1, 14 + 28 DAP.
3. Apply POST treatment 28-42 DAP.
4. DA-A = Days after FALL application. DAP = Days after planting.
ERICA-HR = Herbicide-resistant marestalk (glyphosate).
5. Not harvested.