

General Evaluation of Fall Herbicides Prior to Soybean
 - Glyphosate-Resistant Marestalk.
 Project Code: 07-Fager-FallSoy 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: 1-23-08

Objective:

Evaluate the efficacy of various herbicide programs applied in the fall prior to soybean planting, especially for control of marestalk.

Weed Code	Common Name	Scientific Name
1.	STEME chickweed, common	Stellaria media (L.) Vill.
2.	LAMAM henbit	Lamium amplexicaule L.
3.	ERICA horseweed	Conyza canadensis (L.) Crong.
4.	VIORA pansy, field	Viola bicolor Pursh
5.	GGGAN grasses, annual	
6.	SETFA foxtail, giant	Setaria faberi Herrm.
7.	PANDI panicum, fall	Panicum dichotomiflorum Michx.

Crop 1: GLXMA soybean Variety: FS4646 RR
 Planting Method: Seeded Planting Date: 5-14-07
 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

APPLICATION DESCRIPTION

A
 Application Date: 11-20-06
 Time of Day: 11:00
 Application Method: Spray
 Application Timing: FALL
 Applic. Placement: BROFOL
 Air Temp., Unit: 47 F
 % Relative Humidity: 48
 Wind Velocity, Unit: 5 MPH
 Dew Presence (Y/N): N
 Soil Temp., Unit: 45 F
 Soil Moisture: ABONOR
 % Cloud Cover: 0

CROP STAGE AT EACH APPLICATION

A
 Crop 1 Code, Stage: GLXMA NA
 Height, Unit: NA NA

WEED STAGE AT EACH APPLICATION

A
 Weed 1 Code: STEME
 Stage(leaves): 6-10
 Height(inches): 0.125-0.25
 Density: High
 Weed 2 Code: LAMAM
 Stage(leaves): 4-18
 Height(inches): 0.25-2
 Density: High
 Weed 3 Code: ERICA
 Stage(leaves): 4-8
 Height(inches): 0.125-0.25
 Density: Medium

APPLICATION EQUIPMENT

A
 Appl. Equipment: CO2 sprayer
 Operating Pressure: 40 PSI
 Nozzle Type: Flat fan
 Nozzle Size: XR 8002
 Boom Length, Unit: 7.5 FT
 Spray Volume, Unit: 15 GPA

NOTES:

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Weed Code	STEME	STEME	STEME	STEME
Crop Code				
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Date	12-11-06	4-1-07	4-15-07	5-1-07
Trt-Eval Interval	21 DA-A	132 DA-A	146 DA-A	162 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
1	CANOPY EX	29.5	WG			2.2	oz/a	FALL	A	68	de	99	a
1	->CLASSIC	25	WG	0.0312	lb ai/a			FALL	A				
1	->EXPRESS	75	WG	0.0094	lb ai/a			FALL	A				
1	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	FALL	A				
1	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
2	CANOPY EX	29.5	WG			1.1	oz/a	FALL	A	63	ef	99	a
2	->CLASSIC	25	WG	0.0156	lb ai/a			FALL	A				
2	->EXPRESS	75	WG	0.0047	lb ai/a			FALL	A				
2	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	FALL	A				
2	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
3	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	70	de	99	a
3	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	FALL	A				
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	77	cd	99	a
4	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	FALL	A				
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
5	NONTREATED									0	g	0	c
												0	b
													0
													d
6	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	70	de	99	a
6	SENCOR	75	WG	0.25	lb ai/a	5.33	oz/a	FALL	A				
6	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
6	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
7	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	57	f	99	ab
7	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	FALL	A				
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
7	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A				
8	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	73	cde	99	a
8	ROUNDUP W-MAX	4.5	SL	0.42	lb ae/a	12	fl oz/a	FALL	A				
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
9	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A	96	a	99	a
9	CLASSIC	25	WG	0.0234	lb ai/a	1.5	oz/a	FALL	A				
9	REFLEX	2	EC	0.25	lb ai/a	1.0	pt/a	FALL	A				
9	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
10	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A	98	a	99	a
10	CLASSIC	25	WG	0.0234	lb ai/a	1.5	oz/a	FALL	A				
10	BANVEL	4	EC	0.5	lb ai/a	1.0	pt/a	FALL	A				
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
11	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A	98	a	99	a
11	BANVEL	4	EC	0.5	lb ai/a	1.0	pt/a	FALL	A				
11	REFLEX	2	EC	0.25	lb ai/a	1.0	pt/a	FALL	A				
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
12	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A	93	ab	99	a
12	CANOPY EX	29.5	WG			1.65	oz/a	FALL	A				
12	->CLASSIC	25	WG	0.0234	lb ai/a			FALL	A				
12	->EXPRESS	75	WG	0.0070	lb ai/a			FALL	A				
12	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
13	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A	98	a	99	a
13	BANVEL	4	EC	0.5	lb ai/a	1.0	pt/a	FALL	A				
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
14	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A	96	a	99	a
14	CLASSIC	25	WG	0.0234	lb ai/a	1.5	oz/a	FALL	A				
14	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
15	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A	95	a	98	b
15	PEAK	57	WG	0.0089	lb ai/a	0.25	oz/a	FALL	A				
15	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
16	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A	93	ab	99	a
16	BEACON	75	WG	0.0178	lb ai/a	0.38	oz/a	FALL	A				
16	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				

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									STEME	STEME	STEME	STEME	
									Control	Control	Control	Control	
									Percent	Percent	Percent	Percent	
									12-11-06	4-1-07	4-15-07	5-1-07	
									21 DA-A	132 DA-A	146 DA-A	162 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
17	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A	97 a	99 a	99 a	98 ab
17	NORTHSTAR	47.4	WG	0.089	lb ai/a	3.0	oz/a	FALL	A				
17	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
18	SPARTAN	4	F	0.125	lb ai/a	4	fl oz/a	FALL	A	96 a	99 a	99 a	98 ab
18	SENCOR	75	WG	0.1875	lb ai/a	4	oz/a	FALL	A				
18	AIM	2	EW	0.016	lb ai/a	1.02	fl oz/a	FALL	A				
18	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
18	PRIME OIL COC	100	LIQ	1.0	qt/a	1	qt/a	FALL	A				
19	SPARTAN	4	F	0.125	lb ai/a	4	fl oz/a	FALL	A	97 a	99 a	99 a	99 a
19	SENCOR	75	WG	0.1875	lb ai/a	4	oz/a	FALL	A				
19	EXPRESS	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A				
19	AIM	2	EW	0.008	lb ai/a	0.51	fl oz/a	FALL	A				
19	2,4-D LV4	3.8	EC	0.24	lb ai/a	0.5	pt/a	FALL	A				
19	PRIME OIL COC	100	LIQ	1.0	qt/a	1	qt/a	FALL	A				
20	SPARTAN	4	F	0.125	lb ai/a	4	fl oz/a	FALL	A	83 bc	99 a	99 a	99 a
20	FIRSTRATE	84	WG	0.0155	lb ai/a	0.295	oz/a	FALL	A				
20	AIM	2	EW	0.016	lb ai/a	1.02	fl oz/a	FALL	A				
20	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
20	PRIME OIL COC	100	LIQ	1.0	qt/a	1	qt/a	FALL	A				
21	SPARTAN	4	F	0.125	lb ai/a	4	fl oz/a	FALL	A	83 bc	99 a	99 a	99 a
21	FIRSTRATE	84	WG	0.0155	lb ai/a	0.295	oz/a	FALL	A				
21	EXPRESS	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A				
21	AIM	2	EW	0.008	lb ai/a	0.51	fl oz/a	FALL	A				
21	2,4-D LV4	3.8	EC	0.24	lb ai/a	0.5	pt/a	FALL	A				
21	PRIME OIL COC	100	LIQ	1.0	qt/a	1	qt/a	FALL	A				
LSD (P=.05)									10.2	0.5	0.0	1.9	
Replicate F									7.837	0.588	0.000	0.588	
Replicate Prob(F)									0.0013	0.5600	1.0000	0.5600	
Treatment F									41.298	17279.355	0.000	1070.596	
Treatment Prob(F)									0.0001	0.0001	1.0000	0.0001	

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

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						LAMAM	LAMAM	LAMAM	LAMAM
						Control	Control	Control	Control
						Percent	Percent	Percent	Percent
						12-11-06	4-1-07	4-15-07	5-1-07
						21 DA-A	132 DA-A	146 DA-A	162 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code
1	CANOPY EX	29.5	WG			2.2	oz/a	FALL	A
1	->CLASSIC	25	WG	0.0312	lb ai/a			FALL	A
1	->EXPRESS	75	WG	0.0094	lb ai/a			FALL	A
1	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	FALL	A
1	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A
								77	ghi
								99	a
								99	a
								99	a
2	CANOPY EX	29.5	WG			1.1	oz/a	FALL	A
2	->CLASSIC	25	WG	0.0156	lb ai/a			FALL	A
2	->EXPRESS	75	WG	0.0047	lb ai/a			FALL	A
2	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	FALL	A
2	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A
								77	ghi
								99	a
								99	a
								99	a
3	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A
3	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	FALL	A
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A
								70	i
								99	a
								99	a
								99	a
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A
4	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	FALL	A
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A
								85	def
								99	a
								99	a
								99	a
5	NONTREATED								
								0	k
								0	c
								0	c
								0	c
6	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A
6	SENCOR	75	WG	0.25	lb ai/a	5.33	oz/a	FALL	A
6	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A
6	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A
								87	cde
								99	a
								99	a
								99	a
7	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A
7	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	FALL	A
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A
7	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A
								73	hi
								98	a
								99	a
								98	b
8	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A
8	ROUNDUP W-MAX	4.5	SL	0.42	lb ae/a	12	fl oz/a	FALL	A
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A
								58	j
								99	a
								99	a
								99	a
9	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A
9	CLASSIC	25	WG	0.0234	lb ai/a	1.5	oz/a	FALL	A
9	REFLEX	2	EC	0.25	lb ai/a	1.0	pt/a	FALL	A
9	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A
								96	ab
								99	a
								99	a
								99	a
10	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A
10	CLASSIC	25	WG	0.0234	lb ai/a	1.5	oz/a	FALL	A
10	BANVEL	4	EC	0.5	lb ai/a	1.0	pt/a	FALL	A
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A
								97	a
								99	a
								99	a
								99	a
11	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A
11	BANVEL	4	EC	0.5	lb ai/a	1.0	pt/a	FALL	A
11	REFLEX	2	EC	0.25	lb ai/a	1.0	pt/a	FALL	A
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A
								97	a
								99	a
								99	a
								99	a
12	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A
12	CANOPY EX	29.5	WG			1.65	oz/a	FALL	A
12	->CLASSIC	25	WG	0.0234	lb ai/a			FALL	A
12	->EXPRESS	75	WG	0.0070	lb ai/a			FALL	A
12	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A
								83	efg
								99	a
								99	a
								99	a
13	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A
13	BANVEL	4	EC	0.5	lb ai/a	1.0	pt/a	FALL	A
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A
								92	a-d
								99	a
								99	a
								99	a
14	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A
14	CLASSIC	25	WG	0.0234	lb ai/a	1.5	oz/a	FALL	A
14	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A
								92	a-d
								99	a
								99	a
								99	a
15	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A
15	PEAK	57	WG	0.0089	lb ai/a	0.25	oz/a	FALL	A
15	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A
								73	hi
								81	b
								84	b
								99	a
16	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A
16	BEACON	75	WG	0.0178	lb ai/a	0.38	oz/a	FALL	A
16	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A
								78	fgh
								98	a
								99	a
								99	a

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Crop Code				
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Date	12-11-06	4-1-07	4-15-07	5-1-07
Trt-Eval Interval	21 DA-A	132 DA-A	146 DA-A	162 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
17	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A	88	b-e	99	a
17	NORTHSTAR	47.4	WG	0.089	lb ai/a	3.0	oz/a	FALL	A				
17	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A				
18	SPARTAN	4	F	0.125	lb ai/a	4	fl oz/a	FALL	A	94	abc	99	a
18	SENCOR	75	WG	0.1875	lb ai/a	4	oz/a	FALL	A				
18	AIM	2	EW	0.016	lb ai/a	1.02	fl oz/a	FALL	A				
18	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
18	PRIME OIL COC	100	LIQ	1.0	qt/a	1	qt/a	FALL	A				
19	SPARTAN	4	F	0.125	lb ai/a	4	fl oz/a	FALL	A	95	ab	99	a
19	SENCOR	75	WG	0.1875	lb ai/a	4	oz/a	FALL	A				
19	EXPRESS	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A				
19	AIM	2	EW	0.008	lb ai/a	0.51	fl oz/a	FALL	A				
19	2,4-D LV4	3.8	EC	0.24	lb ai/a	0.5	pt/a	FALL	A				
19	PRIME OIL COC	100	LIQ	1.0	qt/a	1	qt/a	FALL	A				
20	SPARTAN	4	F	0.125	lb ai/a	4	fl oz/a	FALL	A	87	cde	99	a
20	FIRSTRATE	84	WG	0.0155	lb ai/a	0.295	oz/a	FALL	A				
20	AIM	2	EW	0.016	lb ai/a	1.02	fl oz/a	FALL	A				
20	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A				
20	PRIME OIL COC	100	LIQ	1.0	qt/a	1	qt/a	FALL	A				
21	SPARTAN	4	F	0.125	lb ai/a	4	fl oz/a	FALL	A	87	cde	99	a
21	FIRSTRATE	84	WG	0.0155	lb ai/a	0.295	oz/a	FALL	A				
21	EXPRESS	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A				
21	AIM	2	EW	0.008	lb ai/a	0.51	fl oz/a	FALL	A				
21	2,4-D LV4	3.8	EC	0.24	lb ai/a	0.5	pt/a	FALL	A				
21	PRIME OIL COC	100	LIQ	1.0	qt/a	1	qt/a	FALL	A				

LSD (P=.05)	8.1	9.9	7.8	0.8
Replicate F	8.117	0.899	0.789	1.000
Replicate Prob(F)	0.0011	0.4150	0.4613	0.3769
Treatment F	54.967	39.504	63.673	5506.638
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001

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

General Evaluation of Fall Herbicides Prior to Soybean
 - Glyphosate-Resistant Marestalk.
 Project Code: 07-Fager-FallSoy Location: Murphysboro, IL
 Investigator: Bryan Young

										ERICA	ERICA	ERICA	ERICA	VIORA	VIORA	VIORA
										Control	Control	Control	Control	Control	Control	Control
										Percent	Percent	Percent	Percent	Percent	Percent	Percent
										4-1-07	4-15-07	5-1-07	6-11-07	4-1-07	4-15-07	5-1-07
										132 DA-A	146 DA-A	162 DA-A	28 DAP	132 DA-A	146 DA-A	162 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code							
1	CANOPY EX	29.5	WG			2.2	oz/a	FALL	A	99 a	99 a	99 a	92 a	99 a	99 a	99 a
1	->CLASSIC	25	WG	0.0312	lb ai/a			FALL	A							
1	->EXPRESS	75	WG	0.0094	lb ai/a			FALL	A							
1	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	FALL	A							
1	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
2	CANOPY EX	29.5	WG			1.1	oz/a	FALL	A	99 a	99 a	99 a	90 a	99 a	99 a	99 a
2	->CLASSIC	25	WG	0.0156	lb ai/a			FALL	A							
2	->EXPRESS	75	WG	0.0047	lb ai/a			FALL	A							
2	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	FALL	A							
2	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
3	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	99 a	99 a	92 bcd	40 c-f	96 a-d	94 abc	99 a
3	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	FALL	A							
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	99 a	99 a	90 cd	0 g	95 a-d	97 a	99 a
4	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	FALL	A							
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A							
5	NONTREATED									0 b	0 c	0 e	0 g	0 f	0 d	0 b
6	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	99 a	99 a	92 bcd	7 fg	85 e	87 c	99 a
6	SENCOR	75	WG	0.25	lb ai/a	5.33	oz/a	FALL	A							
6	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
6	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A							
7	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	98 a	99 a	93 a-d	23 c-g	92 cd	91 abc	99 a
7	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	FALL	A							
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
7	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL	A							
8	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	98 a	98 a	88 d	23 c-g	92 cd	92 abc	99 a
8	ROUNDUP W-MAX	4.5	SL	0.42	lb ae/a	12	fl oz/a	FALL	A							
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A							
9	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A	99 a	99 a	99 a	82 ab	99 a	99 a	99 a
9	CLASSIC	25	WG	0.0234	lb ai/a	1.5	oz/a	FALL	A							
9	REFLEX	2	EC	0.25	lb ai/a	1.0	pt/a	FALL	A							
9	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
10	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A	99 a	99 a	99 a	84 ab	99 a	99 a	99 a
10	CLASSIC	25	WG	0.0234	lb ai/a	1.5	oz/a	FALL	A							
10	BANVEL	4	EC	0.5	lb ai/a	1.0	pt/a	FALL	A							
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
11	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A	99 a	99 a	89 cd	13 d-g	98 abc	97 a	99 a
11	BANVEL	4	EC	0.5	lb ai/a	1.0	pt/a	FALL	A							
11	REFLEX	2	EC	0.25	lb ai/a	1.0	pt/a	FALL	A							
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
12	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A	99 a	99 a	99 a	88 a	99 a	99 a	99 a
12	CANOPY EX	29.5	WG			1.65	oz/a	FALL	A							
12	->CLASSIC	25	WG	0.0234	lb ai/a			FALL	A							
12	->EXPRESS	75	WG	0.0070	lb ai/a			FALL	A							
12	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
13	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A	98 a	98 a	92 bcd	13 d-g	96 abc	96 ab	99 a
13	BANVEL	4	EC	0.5	lb ai/a	1.0	pt/a	FALL	A							
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
14	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A	99 a	99 a	99 a	92 a	99 a	99 a	99 a
14	CLASSIC	25	WG	0.0234	lb ai/a	1.5	oz/a	FALL	A							
14	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
15	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A	99 a	99 a	95 abc	52 bc	90 de	88 bc	99 a
15	PEAK	57	WG	0.0089	lb ai/a	0.25	oz/a	FALL	A							
15	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
16	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A	98 a	95 b	88 d	10 efg	92 bcd	96 ab	99 a
16	BEACON	75	WG	0.0178	lb ai/a	0.38	oz/a	FALL	A							
16	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							

General Evaluation of Fall Herbicides Prior to Soybean
 - Glyphosate-Resistant Marestalk.
 Project Code: 07-Fager-FallSoy Location: Murphysboro, IL
 Investigator: Bryan Young

Weed Code										ERICA	ERICA	ERICA	ERICA	VIORA	VIORA	VIORA
Crop Code										Control	Control	Control	Control	Control	Control	Control
Rating Data Type										Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit										4-1-07	4-15-07	5-1-07	6-11-07	4-1-07	4-15-07	5-1-07
Rating Date										132 DA-A	146 DA-A	162 DA-A	28 DAP	132 DA-A	146 DA-A	162 DA-A
Trt-Eval Interval																
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code							
17	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL	A	99 a	99 a	95 abc	43 cde	98 abc	93 abc	99 a
17	NORTHSTAR	47.4	WG	0.089	lb ai/a	3.0	oz/a	FALL	A							
17	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL	A							
18	SPARTAN	4	F	0.125	lb ai/a	4	fl oz/a	FALL	A	99 a	99 a	90 cd	30 c-g	96 abc	96 ab	99 a
18	SENCOR	75	WG	0.1875	lb ai/a	4	oz/a	FALL	A							
18	AIM	2	EW	0.016	lb ai/a	1.02	fl oz/a	FALL	A							
18	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
18	PRIME OIL COC	100	LIQ	1.0	qt/a	1	qt/a	FALL	A							
19	SPARTAN	4	F	0.125	lb ai/a	4	fl oz/a	FALL	A	99 a	99 a	96 ab	0 g	94 a-d	92 abc	99 a
19	SENCOR	75	WG	0.1875	lb ai/a	4	oz/a	FALL	A							
19	EXPRESS	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A							
19	AIM	2	EW	0.008	lb ai/a	0.51	fl oz/a	FALL	A							
19	2,4-D LV4	3.8	EC	0.24	lb ai/a	0.5	pt/a	FALL	A							
19	PRIME OIL COC	100	LIQ	1.0	qt/a	1	qt/a	FALL	A							
20	SPARTAN	4	F	0.125	lb ai/a	4	fl oz/a	FALL	A	99 a	99 a	96 ab	47 cd	99 a	97 a	99 a
20	FIRSTRATE	84	WG	0.0155	lb ai/a	0.295	oz/a	FALL	A							
20	AIM	2	EW	0.016	lb ai/a	1.02	fl oz/a	FALL	A							
20	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A							
20	PRIME OIL COC	100	LIQ	1.0	qt/a	1	qt/a	FALL	A							
21	SPARTAN	4	F	0.125	lb ai/a	4	fl oz/a	FALL	A	98 a	99 a	99 a	40 c-f	98 ab	98 a	99 a
21	FIRSTRATE	84	WG	0.0155	lb ai/a	0.295	oz/a	FALL	A							
21	EXPRESS	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL	A							
21	AIM	2	EW	0.008	lb ai/a	0.51	fl oz/a	FALL	A							
21	2,4-D LV4	3.8	EC	0.24	lb ai/a	0.5	pt/a	FALL	A							
21	PRIME OIL COC	100	LIQ	1.0	qt/a	1	qt/a	FALL	A							
LSD (P=.05)										1.4	2.1	6.0	34.3	6.2	8.1	0.0
Replicate F										0.588	0.316	0.930	0.821	0.950	2.523	0.000
Replicate Prob(F)										0.5600	0.7311	0.4031	0.4474	0.3954	0.0929	1.0000
Treatment F										1912.843	893.204	101.547	7.979	97.235	55.962	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	1.0000

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

General Evaluation of Fall Herbicides Prior to Soybean
 - Glyphosate-Resistant Marestalk.
 Project Code: 07-Fager-FallSoy Location: Murphysboro, IL
 Investigator: Bryan Young

Weed Code	GGGAN	
Crop Code		GLXMA
Rating Data Type	Control	Injury
Rating Unit	Percent	Percent
Rating Date	6-11-07	6-11-07
Trt-Eval Interval	28 DAP	28 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
1	CANOPY EX	29.5	WG			2.2	oz/a	FALL A	A	53	a-f	0	a
1	->CLASSIC	25	WG	0.0312	lb ai/a			FALL A	A				
1	->EXPRESS	75	WG	0.0094	lb ai/a			FALL A	A				
1	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	FALL A	A				
1	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL A	A				
2	CANOPY EX	29.5	WG			1.1	oz/a	FALL A	A	74	a	0	a
2	->CLASSIC	25	WG	0.0156	lb ai/a			FALL A	A				
2	->EXPRESS	75	WG	0.0047	lb ai/a			FALL A	A				
2	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	FALL A	A				
2	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL A	A				
3	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL A	A	43	a-g	0	a
3	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	FALL A	A				
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL A	A				
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL A	A	20	c-g	0	a
4	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	FALL A	A				
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL A	A				
5	NONTREATED									0	g	0	a
6	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL A	A	13	efg	0	a
6	SENCOR	75	WG	0.25	lb ai/a	5.33	oz/a	FALL A	A				
6	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL A	A				
6	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL A	A				
7	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL A	A	17	d-g	0	a
7	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	FALL A	A				
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL A	A				
7	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	FALL A	A				
8	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL A	A	27	a-g	0	a
8	ROUNDUP W-MAX	4.5	SL	0.42	lb ae/a	12	fl oz/a	FALL A	A				
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL A	A				
9	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL A	A	33	a-g	0	a
9	CLASSIC	25	WG	0.0234	lb ai/a	1.5	oz/a	FALL A	A				
9	REFLEX	2	EC	0.25	lb ai/a	1.0	pt/a	FALL A	A				
9	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL A	A				
10	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL A	A	75	a	0	a
10	CLASSIC	25	WG	0.0234	lb ai/a	1.5	oz/a	FALL A	A				
10	BANVEL	4	EC	0.5	lb ai/a	1.0	pt/a	FALL A	A				
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL A	A				
11	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL A	A	43	a-g	0	a
11	BANVEL	4	EC	0.5	lb ai/a	1.0	pt/a	FALL A	A				
11	REFLEX	2	EC	0.25	lb ai/a	1.0	pt/a	FALL A	A				
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL A	A				
12	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL A	A	48	a-g	0	a
12	CANOPY EX	29.5	WG			1.65	oz/a	FALL A	A				
12	->CLASSIC	25	WG	0.0234	lb ai/a			FALL A	A				
12	->EXPRESS	75	WG	0.0070	lb ai/a			FALL A	A				
12	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL A	A				
13	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL A	A	65	a-d	0	a
13	BANVEL	4	EC	0.5	lb ai/a	1.0	pt/a	FALL A	A				
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL A	A				
14	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL A	A	68	abc	0	a
14	CLASSIC	25	WG	0.0234	lb ai/a	1.5	oz/a	FALL A	A				
14	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL A	A				
15	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL A	A	62	a-e	0	a
15	PEAK	57	WG	0.0089	lb ai/a	0.25	oz/a	FALL A	A				
15	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL A	A				
16	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL A	A	7	fg	0	a
16	BEACON	75	WG	0.0178	lb ai/a	0.38	oz/a	FALL A	A				
16	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL A	A				

General Evaluation of Fall Herbicides Prior to Soybean
 - Glyphosate-Resistant Marestalk.
 Project Code: 07-Fager-FallSoy Location: Murphysboro, IL
 Investigator: Bryan Young

Weed Code	GGGAN
Crop Code	GLXMA
Rating Data Type	Control Injury
Rating Unit	Percent Percent
Rating Date	6-11-07 6-11-07
Trt-Eval Interval	28 DAP 28 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
17	GRAMOXONE INTEON	2	SL	0.375	lb ai/a	24	fl oz/a	FALL A	A	70	ab	0	a
17	NORTHSTAR	47.4	WG	0.089	lb ai/a	3.0	oz/a	FALL A	A				
17	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	FALL A	A				
18	SPARTAN	4	F	0.125	lb ai/a	4	fl oz/a	FALL A	A	0	g	0	a
18	SENCOR	75	WG	0.1875	lb ai/a	4	oz/a	FALL A	A				
18	AIM	2	EW	0.016	lb ai/a	1.02	fl oz/a	FALL A	A				
18	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL A	A				
18	PRIME OIL COC	100	LIQ	1.0	qt/a	1	qt/a	FALL A	A				
19	SPARTAN	4	F	0.125	lb ai/a	4	fl oz/a	FALL A	A	23	b-g	0	a
19	SENCOR	75	WG	0.1875	lb ai/a	4	oz/a	FALL A	A				
19	EXPRESS	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL A	A				
19	AIM	2	EW	0.008	lb ai/a	0.51	fl oz/a	FALL A	A				
19	2,4-D LV4	3.8	EC	0.24	lb ai/a	0.5	pt/a	FALL A	A				
19	PRIME OIL COC	100	LIQ	1.0	qt/a	1	qt/a	FALL A	A				
20	SPARTAN	4	F	0.125	lb ai/a	4	fl oz/a	FALL A	A	57	a-e	0	a
20	FIRSTRATE	84	WG	0.0155	lb ai/a	0.295	oz/a	FALL A	A				
20	AIM	2	EW	0.016	lb ai/a	1.02	fl oz/a	FALL A	A				
20	2,4-D LV4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL A	A				
20	PRIME OIL COC	100	LIQ	1.0	qt/a	1	qt/a	FALL A	A				
21	SPARTAN	4	F	0.125	lb ai/a	4	fl oz/a	FALL A	A	38	a-g	0	a
21	FIRSTRATE	84	WG	0.0155	lb ai/a	0.295	oz/a	FALL A	A				
21	EXPRESS	75	WG	0.0047	lb ai/a	0.1	oz/a	FALL A	A				
21	AIM	2	EW	0.008	lb ai/a	0.51	fl oz/a	FALL A	A				
21	2,4-D LV4	3.8	EC	0.24	lb ai/a	0.5	pt/a	FALL A	A				
21	PRIME OIL COC	100	LIQ	1.0	qt/a	1	qt/a	FALL A	A				
LSD (P=.05)										49.1	0.0		
Replicate F										0.639	0.000		
Replicate Prob(F)										0.5330	1.0000		
Treatment F										2.070	0.000		
Treatment Prob(F)										0.0248	1.0000		

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

Trial Comments

1. Protocol: DuPont, Bayer (JN1), Syngenta, FMC.
2. Ratings: WC 21 DAT, April 1, April 15, May 1, and 28 DAP. CI 28 DAP.
3. Blanket ROM 22 fl oz/A + AMS at 28 DAP (all plots except the nontreated 10 ft wide).
4. DA-A = Days after FALL application. DAP = Days after planting.
GGGAN = Annual grasses including SETFA and PANDI.