

Gramoxone Inteon Soybean Burndown on Glyphosate-Resistant Horseweed.

Project Code: 06-Fager-N50 Location: Muphysboro, IL
Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Murphysboro IL 62966 USA
Trial Status: Final Updated: 11-9-06**Objective:**

Evaluate Gramoxone Inteon tank-mixes for control of glyphosate-resistant horseweed.

Weed Code	Common Name	Scientific Name
1.	ERICA horseweed	Conyza canadensis (L.) Crong.
2.	ALLVI garlic, wild	Allium vineale L.
3.	VIORA jumpup, johnny	Viola rafinesquil greene
4.	ALOCA foxtail, Carolina	Alopecurus carolinianus Walt.
5.	OXAST woodsorrel, yellow	Oxalis stricta L.
6.	STEME chickweed, common	Stellaria media (L.) Vill.
7.	GERCA geranium, Carolina	Geranium carolinianum L.

Crop 1:	GLXMA soybean	Variety:	FS4646
Planting Method:	Seeded	Planting Date:	5-18-06
Rate:	75 lb/A	Depth:	1.0 IN
Row Spacing:	7 IN	Seed Bed:	No-Till
		Soil Moisture:	Moist

Plot Width, Unit:	10 FT	Plot Length, Unit:	28 FT	Reps:	3
Tillage Type:	No-Till	Study Design:	Randomized complete block		
Previous Crop, Year:	GLXMA, 2005				

APPLICATION DESCRIPTION

	A	B	C
Application Date:	4-26-06	6-14-06	6-14-06
Time of Day:	16:30	10:00	10:00
Application Method:	Spray	Spray	Spray
Application Timing:	EPP3-6"W	V3	4-6"W
Applic. Placement:	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	68 F	80 F	80 F
% Relative Humidity:	35	50	50
Wind Velocity, Unit:	5 MPH	2 MPH	2 MPH
Dew Presence (Y/N):	N	N	N
Soil Temp., Unit:	69 F		
Soil Moisture:	NORMAL	BELNOR	BELNOR
% Cloud Cover:	0		

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	GLXMA NA	GLXMA V3	GLXMA V3
Height, Unit:	NA NA	4-6 IN	4-6 IN

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code:	ERICA	ERICA	ERICA
Stage (leaves):	6-26	4-30+	4-30+
Height (inches):	1-8	1-18	1-18
Density:	High		
Weed 2 Code:	ALLVI		
Stage (leaves):	1-3		
Height (inches):	8-16		
Density:	Medium		
Weed 3 Code:	VIORA		
Stage (leaves):	6-14		
Height (inches):	3-5		
Density:	Medium		
Weed 4 Code:	ALOCA		
Stage (leaves):	1-4		
Height (inches):	4-7		
Density:	High		
Weed 5 Code:	OXAST		
Stage (leaves):	8-20		
Height (inches):	3-5		
Density:	Medium		
Weed 6 Code:	STEME		
Stage (leaves):	8-20		
Height (inches):	2-5		
Density:	Low		
Weed 7 Code:	GERCA		
Stage (leaves):	3-18		
Height (inches):	3-8		
Density:	Low		

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:

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Weed Code
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 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

GLXMA GLXMA GLXMA GLXMA GLXMA
 Yield Injury Injury Injury Injury
 bu/A Percent Percent Percent Percent
 10-21-06 6-14-06 6-21-06 6-28-06 7-26-06
 0 DA-B 7 DA-B 14 DA-C 42 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Yield bu/A	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent
1	NONTREATED									0	0	0	0	0
2	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	EPP3-6"W	A	10	0	5	3	0
2	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A					
2	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C					
2	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C					
3	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	EPP3-6"W	A	10	0	7	3	0
3	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A					
3	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C					
3	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C					
4	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	EPP3-6"W	A	8	0	8	5	0
4	2,4-D LV4	3.8	EC	0.475	lb ae/a	16	fl oz/a	EPP3-6"W	A					
4	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A					
4	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C					
4	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C					
5	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	EPP3-6"W	A	10	0	7	4	0
5	2,4-D LV4	3.8	EC	0.475	lb ae/a	16	fl oz/a	EPP3-6"W	A					
5	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A					
5	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C					
5	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C					
6	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	EPP3-6"W	A	15	0	3	2	0
6	PREFIX	5.28	EW	1.32	lb ai/a	32	fl oz/a	EPP3-6"W	A					
6	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A					
6	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C					
6	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C					
7	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	EPP3-6"W	A	13	0	5	3	0
7	PREFIX	5.28	EW	1.32	lb ai/a	32	fl oz/a	EPP3-6"W	A					
7	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A					
7	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C					
7	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C					
8	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	EPP3-6"W	A	13	0	7	4	0
8	BOUNDARY	6.5	EC	1.22	lb ai/a	24	fl oz/a	EPP3-6"W	A					
8	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A					
8	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C					
8	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C					
9	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	EPP3-6"W	A	8	0	3	2	0
9	BOUNDARY	6.5	EC	1.22	lb ai/a	24	fl oz/a	EPP3-6"W	A					
9	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A					
9	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C					
9	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C					
10	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	EPP3-6"W	A	10	0	5	2	0
10	2,4-D LV4	3.8	EC	0.475	lb ae/a	16	fl oz/a	EPP3-6"W	A					
10	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A					
10	SEQUENCE	5.25	EW	1.64	lb ae/a	2.5	pt/a	V3	B					
10	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	V3	B					
11	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	EPP3-6"W	A	14	0	7	3	0
11	2,4-D LV4	3.8	EC	0.475	lb ae/a	16	fl oz/a	EPP3-6"W	A					
11	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A					
11	SEQUENCE	5.25	EW	1.64	lb ae/a	2.5	pt/a	V3	B					
11	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	V3	B					
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPP3-6"W	A	8	0	0	0	0
12	2,4-D LV4	3.8	EC	0.475	lb ae/a	16	fl oz/a	EPP3-6"W	A					
12	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	EPP3-6"W	A					
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C					
12	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C					
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPP3-6"W	A	4	0	3	2	0
13	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	EPP3-6"W	A					
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C					
13	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C					

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GLXMA GLXMA GLXMA GLXMA GLXMA
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 10-21-06 6-14-06 6-21-06 6-28-06 7-26-06
 0 DA-B 7 DA-B 14 DA-C 42 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Yield	GLXMA Injury	GLXMA Injury	GLXMA Injury	GLXMA Injury
14	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	EPP3-6"W	A	7	0	2	2	0
14	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	EPP3-6"W	A					
14	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	4-6"W	C					
14	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C					
15	ROUNDUP W-MAX	4.5	SL	3.1	lb ae/a	88	fl oz/a	EPP3-6"W	A	13	0	2	0	0
15	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	EPP3-6"W	A					
15	ROUNDUP W-MAX	4.5	SL	3.1	lb ae/a	88	fl oz/a	4-6"W	C					
15	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C					
LSD (P=.05)										6.4	0.0	5.3	3.3	0.0
Replicate F										10.446	0.000	2.405	3.691	0.000
Replicate Prob(F)										0.0004	1.0000	0.1087	0.0378	1.0000
Treatment F										3.391	0.000	2.274	1.905	0.000
Treatment Prob(F)										0.0029	1.0000	0.0312	0.0713	1.0000

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									ERICA	ERICA	ERICA	ERICA	ERICA	ERICA	ERICA	
									Control	Control	Control	Control	Control	CONNEW	CONNEW	
									Percent	Percent	Percent	Percent	Percent	Percent	Percent	
									5-3-06	5-17-06	6-14-06	6-28-06	7-26-06	6-28-06	7-26-06	
									7 DA-A	21 DA-A	0 DA-B	14 DA-C	42 DA-C	14 DA-C	42 DA-C	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code							
1	NONTREATED									0	0	0	0	0	0	0
2	GRAMOXONE INTEON	2 SL		0.625	lb ai/a	2.5	pt/a	EPP3-6"W	A	99	96	89	90	88	0	0
2	ACTIVATOR 90	100 LIQ		0.125	% v/v	0.125	% v/v	EPP3-6"W	A							
2	TOUCHDOWN TOTAL	4.17 SC		0.78	lb ae/a	24	fl oz/a	4-6"W	C							
2	AMS	100 DRY		1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
3	GRAMOXONE INTEON	2 SL		0.75	lb ai/a	3.0	pt/a	EPP3-6"W	A	99	96	91	93	90	0	0
3	ACTIVATOR 90	100 LIQ		0.125	% v/v	0.125	% v/v	EPP3-6"W	A							
3	TOUCHDOWN TOTAL	4.17 SC		0.78	lb ae/a	24	fl oz/a	4-6"W	C							
3	AMS	100 DRY		1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
4	GRAMOXONE INTEON	2 SL		0.625	lb ai/a	2.5	pt/a	EPP3-6"W	A	99	99	95	95	90	0	0
4	2,4-D LV4	3.8 EC		0.475	lb ae/a	16	fl oz/a	EPP3-6"W	A							
4	ACTIVATOR 90	100 LIQ		0.125	% v/v	0.125	% v/v	EPP3-6"W	A							
4	TOUCHDOWN TOTAL	4.17 SC		0.78	lb ae/a	24	fl oz/a	4-6"W	C							
4	AMS	100 DRY		1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
5	GRAMOXONE INTEON	2 SL		0.75	lb ai/a	3.0	pt/a	EPP3-6"W	A	99	99	98	97	93	0	0
5	2,4-D LV4	3.8 EC		0.475	lb ae/a	16	fl oz/a	EPP3-6"W	A							
5	ACTIVATOR 90	100 LIQ		0.125	% v/v	0.125	% v/v	EPP3-6"W	A							
5	TOUCHDOWN TOTAL	4.17 SC		0.78	lb ae/a	24	fl oz/a	4-6"W	C							
5	AMS	100 DRY		1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
6	GRAMOXONE INTEON	2 SL		0.625	lb ai/a	2.5	pt/a	EPP3-6"W	A	99	99	97	97	97	0	0
6	PREFIX	5.28 EW		1.32	lb ai/a	32	fl oz/a	EPP3-6"W	A							
6	ACTIVATOR 90	100 LIQ		0.125	% v/v	0.125	% v/v	EPP3-6"W	A							
6	TOUCHDOWN TOTAL	4.17 SC		0.78	lb ae/a	24	fl oz/a	4-6"W	C							
6	AMS	100 DRY		1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
7	GRAMOXONE INTEON	2 SL		0.75	lb ai/a	3.0	pt/a	EPP3-6"W	A	99	99	96	97	96	0	0
7	PREFIX	5.28 EW		1.32	lb ai/a	32	fl oz/a	EPP3-6"W	A							
7	ACTIVATOR 90	100 LIQ		0.125	% v/v	0.125	% v/v	EPP3-6"W	A							
7	TOUCHDOWN TOTAL	4.17 SC		0.78	lb ae/a	24	fl oz/a	4-6"W	C							
7	AMS	100 DRY		1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
8	GRAMOXONE INTEON	2 SL		0.625	lb ai/a	2.5	pt/a	EPP3-6"W	A	99	99	98	99	97	0	0
8	BOUNDARY	6.5 EC		1.22	lb ai/a	24	fl oz/a	EPP3-6"W	A							
8	ACTIVATOR 90	100 LIQ		0.125	% v/v	0.125	% v/v	EPP3-6"W	A							
8	TOUCHDOWN TOTAL	4.17 SC		0.78	lb ae/a	24	fl oz/a	4-6"W	C							
8	AMS	100 DRY		1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
9	GRAMOXONE INTEON	2 SL		0.75	lb ai/a	3.0	pt/a	EPP3-6"W	A	99	99	98	99	95	0	0
9	BOUNDARY	6.5 EC		1.22	lb ai/a	24	fl oz/a	EPP3-6"W	A							
9	ACTIVATOR 90	100 LIQ		0.125	% v/v	0.125	% v/v	EPP3-6"W	A							
9	TOUCHDOWN TOTAL	4.17 SC		0.78	lb ae/a	24	fl oz/a	4-6"W	C							
9	AMS	100 DRY		1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
10	GRAMOXONE INTEON	2 SL		0.625	lb ai/a	2.5	pt/a	EPP3-6"W	A	99	98	94	95	94	0	0
10	2,4-D LV4	3.8 EC		0.475	lb ae/a	16	fl oz/a	EPP3-6"W	A							
10	ACTIVATOR 90	100 LIQ		0.125	% v/v	0.125	% v/v	EPP3-6"W	A							
10	SEQUENCE	5.25 EW		1.64	lb ae/a	2.5	pt/a	V3	B							
10	AMS	100 DRY		1.0	% w/w	8.5	lb/100 gal	V3	B							
11	GRAMOXONE INTEON	2 SL		0.75	lb ai/a	3.0	pt/a	EPP3-6"W	A	99	99	94	95	92	0	0
11	2,4-D LV4	3.8 EC		0.475	lb ae/a	16	fl oz/a	EPP3-6"W	A							
11	ACTIVATOR 90	100 LIQ		0.125	% v/v	0.125	% v/v	EPP3-6"W	A							
11	SEQUENCE	5.25 EW		1.64	lb ae/a	2.5	pt/a	V3	B							
11	AMS	100 DRY		1.0	% w/w	8.5	lb/100 gal	V3	B							
12	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	EPP3-6"W	A	52	83	75	78	75	0	0
12	2,4-D LV4	3.8 EC		0.475	lb ae/a	16	fl oz/a	EPP3-6"W	A							
12	AMS	100 DRY		1.0	% w/w	8.5	lb/100 gal	EPP3-6"W	A							
12	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	4-6"W	C							
12	AMS	100 DRY		1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
13	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	EPP3-6"W	A	40	68	58	62	52	0	0
13	AMS	100 DRY		1.0	% w/w	8.5	lb/100 gal	EPP3-6"W	A							
13	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	4-6"W	C							
13	AMS	100 DRY		1.0	% w/w	8.5	lb/100 gal	4-6"W	C							

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Weed Code	ERICA	ERICA	ERICA	ERICA	ERICA	ERICA	ERICA
Crop Code	Control	Control	Control	Control	Control	CONNEW	CONNEW
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	5-3-06	5-17-06	6-14-06	6-28-06	7-26-06	6-28-06	7-26-06
Rating Date	7 DA-A	21 DA-A	0 DA-B	14 DA-C	42 DA-C	14 DA-C	42 DA-C
Trt-Eval Interval							

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ERICA 5-3-06	ERICA 5-17-06	ERICA 6-14-06	ERICA 6-28-06	ERICA 7-26-06	CONNEW 6-28-06	CONNEW 7-26-06
14	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	EPP3-6"W	A	57	83	72	80	72	0	0
14	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	EPP3-6"W	A							
14	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	4-6"W	C							
14	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
15	ROUNDUP W-MAX	4.5	SL	3.1	lb ae/a	88	fl oz/a	EPP3-6"W	A	53	87	80	86	90	0	0
15	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	EPP3-6"W	A							
15	ROUNDUP W-MAX	4.5	SL	3.1	lb ae/a	88	fl oz/a	4-6"W	C							
15	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
LSD (P=.05)										3.9	6.3	7.8	6.2	7.0	0.0	0.0
Replicate F										0.104	2.878	1.113	0.728	4.258	0.000	0.000
Replicate Prob(F)										0.9011	0.0730	0.3427	0.4917	0.0243	1.0000	1.0000
Treatment F										550.627	138.563	90.893	142.039	112.102	0.000	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	1.0000	1.0000

Gramoxone Inteon Soybean Burndown on Glyphosate-Resistant Horseweed.

Project Code: 06-Fager-N50 Location: Muphysboro, IL
 Investigator: Bryan Young

									ERICA	ALLVI	ALLVI	VIORA	VIORA	ALOCA	ALOCA
									Plants	Control	Control	Control	Control	Control	Control
									1.0 m2	Percent	Percent	Percent	Percent	Percent	Percent
									10-26-06	5-3-06	5-17-06	5-3-06	5-17-06	5-3-06	5-17-06
									EOS	7 DA-A	21 DA-A	7 DA-A	21 DA-A	7 DA-A	21 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
1	NONTREATED									59.3	0	0	0	0	0
2	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	EPP3-6"W	A	4.7	95	94	99	99	99
2	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A						
2	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C						
2	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C						
3	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	EPP3-6"W	A	2.7	96	95	99	99	99
3	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A						
3	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C						
3	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C						
4	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	EPP3-6"W	A	1.3	97	96	99	99	99
4	2,4-D LV4	3.8	EC	0.475	lb ae/a	16	fl oz/a	EPP3-6"W	A						
4	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A						
4	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C						
4	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C						
5	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	EPP3-6"W	A	0.0	96	96	99	99	99
5	2,4-D LV4	3.8	EC	0.475	lb ae/a	16	fl oz/a	EPP3-6"W	A						
5	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A						
5	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C						
5	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C						
6	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	EPP3-6"W	A	0.7	94	97	99	99	99
6	PREFIX	5.28	EW	1.32	lb ai/a	32	fl oz/a	EPP3-6"W	A						
6	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A						
6	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C						
6	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C						
7	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	EPP3-6"W	A	0.7	96	95	99	99	99
7	PREFIX	5.28	EW	1.32	lb ai/a	32	fl oz/a	EPP3-6"W	A						
7	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A						
7	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C						
7	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C						
8	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	EPP3-6"W	A	0.7	96	95	99	99	99
8	BOUNDARY	6.5	EC	1.22	lb ai/a	24	fl oz/a	EPP3-6"W	A						
8	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A						
8	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C						
8	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C						
9	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	EPP3-6"W	A	0.0	95	97	99	99	99
9	BOUNDARY	6.5	EC	1.22	lb ai/a	24	fl oz/a	EPP3-6"W	A						
9	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A						
9	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C						
9	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C						
10	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	EPP3-6"W	A	1.3	95	96	99	99	99
10	2,4-D LV4	3.8	EC	0.475	lb ae/a	16	fl oz/a	EPP3-6"W	A						
10	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A						
10	SEQUENCE	5.25	EW	1.64	lb ae/a	2.5	pt/a	V3	B						
10	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	V3	B						
11	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	EPP3-6"W	A	1.3	93	96	99	99	99
11	2,4-D LV4	3.8	EC	0.475	lb ae/a	16	fl oz/a	EPP3-6"W	A						
11	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A						
11	SEQUENCE	5.25	EW	1.64	lb ae/a	2.5	pt/a	V3	B						
11	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	V3	B						
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPP3-6"W	A	20.7	40	92	48	99	95
12	2,4-D LV4	3.8	EC	0.475	lb ae/a	16	fl oz/a	EPP3-6"W	A						
12	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	EPP3-6"W	A						
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C						
12	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C						
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPP3-6"W	A	32.7	33	83	47	99	93
13	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	EPP3-6"W	A						
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C						
13	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C						

Gramoxone Inteon Soybean Burndown on Glyphosate-Resistant Horseweed.

Project Code: 06-Fager-N50 Location: Muphysboro, IL
 Investigator: Bryan Young

								ERICA	ALLVI	ALLVI	VIORA	VIORA	ALOCA	ALOCA	
								Plants	Control	Control	Control	Control	Control	Control	
								1.0 m2	Percent	Percent	Percent	Percent	Percent	Percent	
								10-26-06	5-3-06	5-17-06	5-3-06	5-17-06	5-3-06	5-17-06	
								EOS	7 DA-A	21 DA-A	7 DA-A	21 DA-A	7 DA-A	21 DA-A	
Trt	Treatment	Form	Form	Rate	Prod	Prod	Grow	Appl							
No.	Name	Conc	Type	Unit	Rate	Unit	Stg	Code							
14	ROUNDUP W-MAX	4.5	SL	1.55 lb ae/a	44 fl oz/a		EPP3-6"W	A	26.0	32	88	47	99	93	99
14	AMS	100	DRY	1.0 % w/w	8.5 lb/100 gal		EPP3-6"W	A							
14	ROUNDUP W-MAX	4.5	SL	1.55 lb ae/a	44 fl oz/a		4-6"W	C							
14	AMS	100	DRY	1.0 % w/w	8.5 lb/100 gal		4-6"W	C							
15	ROUNDUP W-MAX	4.5	SL	3.1 lb ae/a	88 fl oz/a		EPP3-6"W	A	4.7	23	90	53	99	90	99
15	AMS	100	DRY	1.0 % w/w	8.5 lb/100 gal		EPP3-6"W	A							
15	ROUNDUP W-MAX	4.5	SL	3.1 lb ae/a	88 fl oz/a		4-6"W	C							
15	AMS	100	DRY	1.0 % w/w	8.5 lb/100 gal		4-6"W	C							
LSD (P=.05)									11.99	11.2	7.4	15.8	0.0	4.1	0.0
Replicate F									1.875	0.721	2.887	0.973	0.000	1.197	0.000
Replicate Prob(F)									0.1722	0.4953	0.0725	0.3903	1.0000	0.3170	1.0000
Treatment F									17.141	81.945	90.883	33.524	0.000	317.895	0.000
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001	1.0000	0.0001	1.0000

Gramoxone Inteon Soybean Burndown on Glyphosate-Resistant Horseweed.

Project Code: 06-Fager-N50 Location: Muphysboro, IL
 Investigator: Bryan Young

									OXAST	OXAST	STEME	STEME	GERCA	GERCA	PANDI	
									Control	Control	Control	Control	Control	Control	Control	
									Percent	Percent	Percent	Percent	Percent	Percent	Percent	
									5-3-06	5-17-06	5-3-06	5-17-06	5-3-06	5-17-06	6-14-06	
									7 DA-A	21 DA-A	7 DA-A	21 DA-A	7 DA-A	21 DA-A	0 DA-B	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code							
1	NONTREATED									0	0	0	0	0	0	0
2	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	EPP3-6"W	A	95	99	99	99	99	99	0
2	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A							
2	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C							
2	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
3	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	EPP3-6"W	A	97	99	99	99	99	99	0
3	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A							
3	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C							
3	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
4	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	EPP3-6"W	A	98	99	99	99	99	99	27
4	2,4-D LV4	3.8	EC	0.475	lb ae/a	16	fl oz/a	EPP3-6"W	A							
4	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A							
4	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C							
4	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
5	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	EPP3-6"W	A	98	99	99	99	99	99	0
5	2,4-D LV4	3.8	EC	0.475	lb ae/a	16	fl oz/a	EPP3-6"W	A							
5	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A							
5	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C							
5	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
6	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	EPP3-6"W	A	99	99	99	99	99	99	96
6	PREFIX	5.28	EW	1.32	lb ai/a	32	fl oz/a	EPP3-6"W	A							
6	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A							
6	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C							
6	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
7	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	EPP3-6"W	A	99	99	99	99	99	99	99
7	PREFIX	5.28	EW	1.32	lb ai/a	32	fl oz/a	EPP3-6"W	A							
7	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A							
7	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C							
7	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
8	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	EPP3-6"W	A	99	99	99	99	99	99	93
8	BOUNDARY	6.5	EC	1.22	lb ai/a	24	fl oz/a	EPP3-6"W	A							
8	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A							
8	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C							
8	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
9	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	EPP3-6"W	A	98	99	99	99	99	99	50
9	BOUNDARY	6.5	EC	1.22	lb ai/a	24	fl oz/a	EPP3-6"W	A							
9	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A							
9	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W	C							
9	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
10	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	EPP3-6"W	A	99	99	99	99	99	99	40
10	2,4-D LV4	3.8	EC	0.475	lb ae/a	16	fl oz/a	EPP3-6"W	A							
10	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A							
10	SEQUENCE	5.25	EW	1.64	lb ae/a	2.5	pt/a	V3	B							
10	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	V3	B							
11	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	EPP3-6"W	A	99	99	99	99	99	99	0
11	2,4-D LV4	3.8	EC	0.475	lb ae/a	16	fl oz/a	EPP3-6"W	A							
11	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	EPP3-6"W	A							
11	SEQUENCE	5.25	EW	1.64	lb ae/a	2.5	pt/a	V3	B							
11	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	V3	B							
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPP3-6"W	A	28	99	99	99	30	99	17
12	2,4-D LV4	3.8	EC	0.475	lb ae/a	16	fl oz/a	EPP3-6"W	A							
12	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	EPP3-6"W	A							
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C							
12	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPP3-6"W	A	57	99	99	99	8	60	0
13	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	EPP3-6"W	A							
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C							
13	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C							

Gramoxone Inteon Soybean Burndown on Glyphosate-Resistant Horseweed.

Project Code: 06-Fager-N50 Location: Muphysboro, IL
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									OXAST	OXAST	STEME	STEME	GERCA	GERCA	PANDI	
									Control	Control	Control	Control	Control	Control	Control	
									Percent	Percent	Percent	Percent	Percent	Percent	Percent	
									5-3-06	5-17-06	5-3-06	5-17-06	5-3-06	5-17-06	6-14-06	
									7 DA-A	21 DA-A	7 DA-A	21 DA-A	7 DA-A	21 DA-A	0 DA-B	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code							
14	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	EPP3-6"W	A	78	99	99	99	8	83	0
14	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	EPP3-6"W	A							
14	ROUNDUP W-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	4-6"W	C							
14	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
15	ROUNDUP W-MAX	4.5	SL	3.1	lb ae/a	88	fl oz/a	EPP3-6"W	A	60	99	99	99	8	83	23
15	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	EPP3-6"W	A							
15	ROUNDUP W-MAX	4.5	SL	3.1	lb ae/a	88	fl oz/a	4-6"W	C							
15	AMS	100	DRY	1.0	% w/w	8.5	lb/100 gal	4-6"W	C							
LSD (P=.05)										18.9	0.0	0.0	0.0	2.2	20.2	38.4
Replicate F										1.951	0.000	0.000	0.000	0.554	2.220	0.897
Replicate Prob(F)										0.1609	1.0000	1.0000	1.0000	0.5817	0.1274	0.4192
Treatment F										22.316	0.000	0.000	0.000	3224.808	14.514	8.177
Treatment Prob(F)										0.0001	1.0000	1.0000	1.0000	0.0001	0.0001	0.0001

Trial Comments

1. Protocol: Syngenta.
2. Ratings: CI 7 DA "B" and 14+42 DA "C"; WC 7 and 21 DA "A" and at "B"; WC 14+42 DA "C".
3. Yield.
4. Photos if possible.
5. ERICA size at application "A" was 1-8 inches, average size was 5 inches.
ERICA size at applications "B" and "C" was variable and included new emergence and surviving plants.
6. CONNEW = Control of newly emerged ERICA.
DA-A, DA-B and DA-C = Days after EPP3-6", V3 and 4-6"W applications, respectively.
Ratings at 0 DA-B are at the V3 application.
1.0 m² = One square meter. EOS = End of season.
7. Harvested 10-21-06, (2) 30 inch rows by 24 ft.
8. Soybean yield was reduced by season-long deer feeding, thus yield differences are not representative of herbicide performance.