

Gramoxone Inteon for Glyphosate-Resistant Marestalk.

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

Investigator: Bryan Young, Associate Professor, Southern Illinois University

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

Objective:

Evaluate burndown and residual weed control with Gramoxone Inteon based programs in no-till soybean with a specific target.

Weed Code	Common Name	Scientific Name
1.	ERICA horseweed	Conyza canadensis (L.) Crong.
2.	HORPU barley, little	Hordeum pusillum Nutt.
3.	STEME chickweed, common	Stellaria media (L.) Vill.
4.	SENGL groundsel, cressleaf	Senecio glabellus Poir.
5.	GERCA geranium, Carolina	Geranium carolinianum L.
6.	AMATA waterhemp, common	Amaranthus rudis Sauer
7.	AMARE pigweed, redroot	Amaranthus retroflexus L.

Crop 1: GLXMA soybean Variety: FS4646 RR
 Planting Method: Seeded Planting Date: 5-18-07
 Rate: 180000 S/A Depth: 1.0 IN
 Row Spacing: 30 IN

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

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

APPLICATION DESCRIPTION

	A	B
Application Date:	5-8-07	6-18-07
Time of Day:	8:00	9:00
Application Method:	Spray	Spray
Application Timing:	7EPP	V3or6"W
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	82 F	86 F
% Relative Humidity:	55	58
Wind Velocity, Unit:	1-2 MPH	3 MPH
Dew Presence (Y/N):	N	N
Soil Temp., Unit:	69 F	77 F
Soil Moisture:	NORMAL	NORMAL
% Cloud Cover:	25	50

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	GLXMA NA	GLXMA V4-V5
Height, Unit:	NA NA	13 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code:	ERICA	ERICA
Stage (leaves):	4-35	10-115+
Height (inches):	1-7	2-19
Density:	Medium	Low
Weed 2 Code:	HORPU	
Stage (leaves):	3-4	
Height (inches):	5-10	
Density:	Medium	
Weed 3 Code:	STEME	
Stage (leaves):	20-50+	
Height (inches):	3-6	
Density:	Medium	
Weed 4 Code:	SENGL	
Stage (leaves):	15-30	
Height (inches):	5-13	
Density:	Medium	
Weed 5 Code:	GERCA	
Stage (leaves):	10-35+	
Height (inches):	4-6	
Density:	Low	
Weed 6 Code:	AMATA	
Stage (leaves):	8-115	
Height (inches):	4-20	
Density:	Low	

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Weed 7 Code:	AMARE
Stage (leaves):	30-50
Height (inches):	10-12
Density:	Low

APPLICATION EQUIPMENT

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

NOTES:

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Rating Unit
Rating Date
Trt-Eval Interval

GLXMA GLXMA GLXMA GLXMA GLXMA GLXMA GLXMA
Moisture Test wt. Yield Injury Injury Injury Injury
Percent lb/bu bu/A Percent Percent Percent Percent
10-29-07 10-29-07 10-29-07 5-28-07 6-25-07 7-2-07 7-23-07
10 DAP 7 DA-B 14 DA-B 35 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code							
1	NONTREATED											6 d	0 a	0 a	0 a	0 a
2	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	7EPP	A	14.7 ab	51.0 e	37 ab	0 a	0 a	0 a	0 a
2	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	7EPP	A							
2	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B							
2	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B							
3	2,4-D LV4	3.8	EC		0.475 lb ae/a	1.0	pt/a	7EPP	A	14.4 b	51.9 b-e	35 ab	0 a	0 a	0 a	0 a
3	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	7EPP	A							
3	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	7EPP	A							
3	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B							
3	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B							
4	2,4-D LV4	3.8	EC		0.95 lb ae/a	2	pt/a	7EPP	A	14.5 b	51.7 b-e	40 a	0 a	0 a	0 a	0 a
4	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	7EPP	A							
4	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	7EPP	A							
4	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B							
4	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B							
5	GRAMOXONE INTEON	2	SL		0.75 lb ai/a	3.0	pt/a	7EPP	A	14.4 b	50.9 e	40 ab	0 a	0 a	0 a	0 a
5	ACTIVATOR 90	100	LIQ		0.25 % v/v	0.25	% v/v	7EPP	A							
5	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B							
5	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B							
6	PREFIX	5.28	EW		1.34 lb ai/a	2.03	pt/a	7EPP	A	15.5 a	53.7 a	25 c	0 a	0 a	0 a	0 a
6	ACTIVATOR 90	100	LIQ		0.25 % v/v	0.25	% v/v	7EPP	A							
6	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B							
6	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B							
7	BOUNDARY	6.5	EC		1.46 lb ai/a	1.8	pt/a	7EPP	A	14.8 ab	52.5 ab	31 bc	0 a	0 a	0 a	0 a
7	ACTIVATOR 90	100	LIQ		0.25 % v/v	0.25	% v/v	7EPP	A							
7	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B							
7	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B							
8	2,4-D LV4	3.8	EC		0.475 lb ae/a	1.0	pt/a	7EPP	A	14.5 b	52.3 bcd	35 ab	0 a	0 a	0 a	0 a
8	ACTIVATOR 90	100	LIQ		0.25 % v/v	0.25	% v/v	7EPP	A							
8	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B							
8	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B							
9	2,4-D LV4	3.8	EC		0.95 lb ae/a	2	pt/a	7EPP	A	14.5 b	51.7 b-e	41 a	0 a	0 a	0 a	0 a
9	ACTIVATOR 90	100	LIQ		0.25 % v/v	0.25	% v/v	7EPP	A							
9	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B							
9	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B							
10	DUAL MAGNUM	7.62	EC		1.27 lb ai/a	1.33	pt/a	7EPP	A	14.7 ab	51.8 b-e	41 a	0 a	0 a	0 a	0 a
10	GRAMOXONE INTEON	2	SL		0.75 lb ai/a	3.0	pt/a	7EPP	A							
10	ACTIVATOR 90	100	LIQ		0.25 % v/v	0.25	% v/v	7EPP	A							
10	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B							
10	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B							
11	PREFIX	5.28	EW		1.34 lb ai/a	2.03	pt/a	7EPP	A	14.4 b	51.3 cde	39 ab	0 a	0 a	0 a	0 a
11	GRAMOXONE INTEON	2	SL		0.75 lb ai/a	3.0	pt/a	7EPP	A							
11	ACTIVATOR 90	100	LIQ		0.25 % v/v	0.25	% v/v	7EPP	A							
11	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B							
11	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B							
12	BOUNDARY	6.5	EC		1.46 lb ai/a	1.8	pt/a	7EPP	A	14.5 b	51.4 cde	35 ab	0 a	0 a	0 a	0 a
12	GRAMOXONE INTEON	2	SL		0.75 lb ai/a	3.0	pt/a	7EPP	A							
12	ACTIVATOR 90	100	LIQ		0.25 % v/v	0.25	% v/v	7EPP	A							
12	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B							
12	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B							
13	DUAL MAGNUM	7.62	EC		1.27 lb ai/a	1.33	pt/a	7EPP	A	14.7 ab	51.6 b-e	42 a	0 a	0 a	0 a	0 a
13	2,4-D LV4	3.8	EC		0.475 lb ae/a	1.0	pt/a	7EPP	A							
13	GRAMOXONE INTEON	2	SL		0.75 lb ai/a	3.0	pt/a	7EPP	A							
13	ACTIVATOR 90	100	LIQ		0.25 % v/v	0.25	% v/v	7EPP	A							
13	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B							
13	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B							

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GLXMA GLXMA GLXMA GLXMA GLXMA GLXMA GLXMA
Moisture Test wt. Yield Injury Injury Injury Injury
Percent lb/bu bu/A Percent Percent Percent Percent
10-29-07 10-29-07 10-29-07 5-28-07 6-25-07 7-2-07 7-23-07
10 DAP 7 DA-B 14 DA-B 35 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code										
14	PREFIX	5.28	EW	1.34	lb ai/a	2.03	pt/a	7EPP	A	14.7	ab	51.9	b-e	42	a	0 a	0 a	0 a	0 a
14	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A										
14	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A										
14	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A										
14	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B										
14	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B										
15	BOUNDARY	6.5	EC	1.46	lb ai/a	1.8	pt/a	7EPP	A	14.6	ab	51.5	b-e	39	ab	0 a	0 a	0 a	0 a
15	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A										
15	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A										
15	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A										
15	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B										
15	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B										
16	DUAL MAGNUM	7.62	EC	1.27	lb ai/a	1.33	pt/a	7EPP	A	14.5	b	51.8	b-e	39	ab	0 a	0 a	0 a	0 a
16	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A										
16	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A										
16	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V3or6"W	B										
16	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B										
17	PREFIX	5.28	EW	1.34	lb ai/a	2.03	pt/a	7EPP	A	14.8	ab	51.5	b-e	38	ab	0 a	0 a	0 a	0 a
17	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A										
17	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A										
17	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V3or6"W	B										
17	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B										
18	BOUNDARY	6.5	EC	1.46	lb ai/a	1.8	pt/a	7EPP	A	14.4	b	51.2	de	40	a	0 a	0 a	0 a	0 a
18	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A										
18	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A										
18	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V3or6"W	B										
18	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B										
19	DUAL MAGNUM	7.62	EC	1.27	lb ai/a	1.33	pt/a	7EPP	A	14.7	ab	52.4	bc	37	ab	0 a	0 a	0 a	0 a
19	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A										
19	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A										
19	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A										
19	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V3or6"W	B										
19	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B										
20	PREFIX	5.28	EW	1.34	lb ai/a	2.03	pt/a	7EPP	A	14.4	b	51.4	b-e	38	ab	0 a	0 a	0 a	0 a
20	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A										
20	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A										
20	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A										
20	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V3or6"W	B										
20	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B										
21	BOUNDARY	6.5	EC	1.46	lb ai/a	1.8	pt/a	7EPP	A	14.7	ab	51.4	b-e	42	a	0 a	0 a	0 a	0 a
21	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A										
21	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A										
21	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A										
21	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V3or6"W	B										
21	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B										
22	CANOPY	75	WG	0.14	lb ai/a	3.0	oz/a	7EPP	A	14.7	ab	51.9	b-e	39	ab	0 a	0 a	0 a	0 a
22	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A										
22	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	7EPP	A										
22	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	7EPP	A										
22	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B										
22	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B										
23	SONIC	70	WG	0.131	lb ai/a	3.0	oz/a	7EPP	A	14.9	ab	52.4	bc	38	ab	0 a	0 a	0 a	0 a
23	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A										
23	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	7EPP	A										
23	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	7EPP	A										
23	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B										
23	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B										

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GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Moisture	Test wt.	Yield	Injury	Injury	Injury	Injury
Percent	lb/bu	bu/A	Percent	Percent	Percent	Percent
10-29-07	10-29-07	10-29-07	5-28-07	6-25-07	7-2-07	7-23-07
			10 DAP	7 DA-B	14 DA-B	35 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code														
24	DPX-QER54	41.3	WG			3.5	oz/a	7EPP	A	14.5	b	52.3	bcd	40	ab	0	a	0	a	0	a		
24	->CLASSIC	25	WG	0.02	lb ai/a			7EPP	A														
24	->HARMONY GT XP	50	SG	0.00643	lb ai/a			7EPP	A														
24	->VALOR SX	51	WG	0.0635	lb ai/a			7EPP	A														
24	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A														
24	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	7EPP	A														
24	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	7EPP	A														
24	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B														
24	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B														
LSD (P=.05)										0.95		1.15		8.7		0.0		0.0		0.0		0.0	
Replicate F										0.068		0.273		3.517		0.000		0.000		0.000		0.000	
Replicate Prob(F)										0.9345		0.7625		0.0381		1.0000		1.0000		1.0000		1.0000	
Treatment F										0.509		2.262		6.270		0.000		0.000		0.000		0.000	
Treatment Prob(F)										0.9548		0.0105		0.0001		1.0000		1.0000		1.0000		1.0000	

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

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Weed Code										ERICA	ERICA	ERICA	ERICA	HORPU	HORPU	STEME	STEME
Crop Code										Control	Control	Control	Control	Control	Control	Control	Control
Rating Data Type										Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit										5-15-07	5-28-07	7-2-07	7-23-07	5-15-07	5-28-07	5-15-07	5-28-07
Rating Date										7 DA-A	20 DA-A	14 DA-B	35 DA-B	7 DA-A	20 DA-A	7 DA-A	20 DA-A
Trt-Eval Interval																	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
1	NONTREATED									0 f	0 f	0 f	0 e	0 g	0 f	0 e	0 d
2	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	7EPP	A	42 cd	78 bc	80 c	82 bc	99 a	99 a	98 a	99 a
2	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	7EPP	A								
2	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B								
2	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
3	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A	62 b	97 a	97 a	98 a	99 a	99 a	96 a	99 a
3	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	7EPP	A								
3	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	7EPP	A								
3	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B								
3	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
4	2,4-D LV4	3.8	EC	0.95	lb ae/a	2	pt/a	7EPP	A	62 b	97 a	98 a	98 a	99 a	99 a	97 a	99 a
4	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	7EPP	A								
4	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	7EPP	A								
4	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B								
4	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
5	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A	97 a	97 a	96 a	96 a	90 e	98 bcd	99 a	99 a
5	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A								
5	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B								
5	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
6	PREFIX	5.28	EW	1.34	lb ai/a	2.03	pt/a	7EPP	A	40 d	25 e	27 e	27 d	0 g	0 f	85 c	87 c
6	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A								
6	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B								
6	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
7	BOUNDARY	6.5	EC	1.46	lb ai/a	1.8	pt/a	7EPP	A	30 e	62 d	67 d	75 c	0 g	0 f	90 bc	96 a
7	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A								
7	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B								
7	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
8	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A	48 c	67 cd	85 bc	86 b	0 g	0 f	73 d	90 b
8	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A								
8	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B								
8	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
9	2,4-D LV4	3.8	EC	0.95	lb ae/a	2	pt/a	7EPP	A	62 b	87 ab	94 ab	97 a	0 g	0 f	85 c	93 b
9	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A								
9	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B								
9	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
10	DUAL MAGNUM	7.62	EC	1.27	lb ai/a	1.33	pt/a	7EPP	A	97 a	99 a	98 a	98 a	93 cde	97 de	99 a	99 a
10	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A								
10	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A								
10	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B								
10	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
11	PREFIX	5.28	EW	1.34	lb ai/a	2.03	pt/a	7EPP	A	98 a	99 a	98 a	98 a	93 bcd	96 e	99 a	99 a
11	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A								
11	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A								
11	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B								
11	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
12	BOUNDARY	6.5	EC	1.46	lb ai/a	1.8	pt/a	7EPP	A	98 a	99 a	99 a	99 a	95 bc	97 cde	99 a	99 a
12	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A								
12	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A								
12	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B								
12	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
13	DUAL MAGNUM	7.62	EC	1.27	lb ai/a	1.33	pt/a	7EPP	A	97 a	99 a	99 a	98 a	96 b	98 bcd	99 a	99 a
13	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A								
13	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A								
13	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A								
13	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B								
13	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								

Gramoxone Inteon for Glyphosate-Resistant Marestalk.

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

									ERICA	ERICA	ERICA	ERICA	HORPU	HORPU	STEME	STEME	
									Control	Control	Control	Control	Control	Control	Control	Control	
									Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
									5-15-07	5-28-07	7-2-07	7-23-07	5-15-07	5-28-07	5-15-07	5-28-07	
									7 DA-A	20 DA-A	14 DA-B	35 DA-B	7 DA-A	20 DA-A	7 DA-A	20 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
14	PREFIX	5.28	EW	1.34	lb ai/a	2.03	pt/a	7EPP	A	97	a	99	a	99	a	98	a
14	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A								
14	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A								
14	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A								
14	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B								
14	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
15	BOUNDARY	6.5	EC	1.46	lb ai/a	1.8	pt/a	7EPP	A	97	a	99	a	99	a	98	a
15	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A								
15	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A								
15	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A								
15	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B								
15	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
16	DUAL MAGNUM	7.62	EC	1.27	lb ai/a	1.33	pt/a	7EPP	A	98	a	98	a	98	a	95	bc
16	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A								
16	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A								
16	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V3or6"W	B								
16	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
17	PREFIX	5.28	EW	1.34	lb ai/a	2.03	pt/a	7EPP	A	97	a	99	a	98	a	93	bcd
17	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A								
17	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A								
17	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V3or6"W	B								
17	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
18	BOUNDARY	6.5	EC	1.46	lb ai/a	1.8	pt/a	7EPP	A	98	a	99	a	99	a	95	bc
18	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A								
18	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A								
18	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V3or6"W	B								
18	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
19	DUAL MAGNUM	7.62	EC	1.27	lb ai/a	1.33	pt/a	7EPP	A	98	a	99	a	99	a	96	b
19	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A								
19	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A								
19	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A								
19	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V3or6"W	B								
19	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
20	PREFIX	5.28	EW	1.34	lb ai/a	2.03	pt/a	7EPP	A	97	a	99	a	98	a	98	a
20	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A								
20	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A								
20	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A								
20	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V3or6"W	B								
20	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
21	BOUNDARY	6.5	EC	1.46	lb ai/a	1.8	pt/a	7EPP	A	98	a	99	a	99	a	95	bc
21	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A								
21	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A								
21	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A								
21	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V3or6"W	B								
21	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
22	CANOPY	75	WG	0.14	lb ai/a	3.0	oz/a	7EPP	A	63	b	90	ab	96	a	97	a
22	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A								
22	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	7EPP	A								
22	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	7EPP	A								
22	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B								
22	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
23	SONIC	70	WG	0.131	lb ai/a	3.0	oz/a	7EPP	A	47	cd	88	ab	96	a	98	a
23	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A								
23	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	7EPP	A								
23	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	7EPP	A								
23	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B								
23	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								

Gramoxone Inteon for Glyphosate-Resistant Marestalk.

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

Weed Code										ERICA	ERICA	ERICA	ERICA	HORPU	HORPU	STEME	STEME
Crop Code										Control	Control	Control	Control	Control	Control	Control	Control
Rating Data Type										Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit										5-15-07	5-28-07	7-2-07	7-23-07	5-15-07	5-28-07	5-15-07	5-28-07
Rating Date										7 DA-A	20 DA-A	14 DA-B	35 DA-B	7 DA-A	20 DA-A	7 DA-A	20 DA-A
Trt-Eval Interval										7 DA-A	20 DA-A	14 DA-B	35 DA-B	7 DA-A	20 DA-A	7 DA-A	20 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
24	DPX-QER54	41.3	WG			3.5	oz/a	7EPP	A	68 b	94 a	99 a	99 a	95 bc	99 a	98 a	99 a
24	->CLASSIC	25	WG	0.02	lb ai/a			7EPP	A								
24	->HARMONY GT XP	50	SG	0.00643	lb ai/a			7EPP	A								
24	->VALOR SX	51	WG	0.0635	lb ai/a			7EPP	A								
24	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A								
24	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	7EPP	A								
24	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	7EPP	A								
24	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B								
24	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B								
LSD (P=.05)										6.7	13.7	9.7	7.4	2.8	1.3	5.7	3.0
Replicate F										5.003	2.023	0.646	0.268	0.541	6.135	1.152	2.393
Replicate Prob(F)										0.0108	0.1439	0.5290	0.7661	0.5857	0.0043	0.3251	0.1027
Treatment F										148.314	27.407	52.601	88.548	1613.168	7747.348	104.894	358.618
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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

Gramoxone Inteon for Glyphosate-Resistant Marestalk.

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

Weed Code	SENGL	GERCA	GERCA	AMASS	AMASS
Crop Code					
Rating Data Type					
Rating Unit					
Rating Date	Control	Control	Control	Control	Control
Trt-Eval Interval	Percent	Percent	Percent	Percent	Percent
	5-15-07	5-15-07	5-28-07	7-2-07	7-23-07
	7 DA-A	7 DA-A	20 DA-A	14 DA-B	35 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	0 e	0 f	0 c	0 c	0 c
1	NONTREATED													
2	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	7EPP	A	93 ab	73 d	98 a	99 a	99 a
2	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	7EPP	A					
2	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B					
2	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B					
3	2,4-D LV4	3.8	EC		0.475 lb ae/a	1.0	pt/a	7EPP	A	88 abc	77 d	99 a	99 a	99 a
3	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	7EPP	A					
3	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	7EPP	A					
3	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B					
3	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B					
4	2,4-D LV4	3.8	EC		0.95 lb ae/a	2	pt/a	7EPP	A	96 ab	78 cd	99 a	99 a	99 a
4	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	7EPP	A					
4	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	7EPP	A					
4	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B					
4	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B					
5	GRAMOXONE INTEON	2	SL		0.75 lb ai/a	3.0	pt/a	7EPP	A	99 a	99 a	99 a	96 b	98 ab
5	ACTIVATOR 90	100	LIQ		0.25 % v/v	0.25	% v/v	7EPP	A					
5	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B					
5	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B					
6	PREFIX	5.28	EW		1.34 lb ai/a	2.03	pt/a	7EPP	A	85 abc	57 e	70 b	96 b	96 b
6	ACTIVATOR 90	100	LIQ		0.25 % v/v	0.25	% v/v	7EPP	A					
6	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B					
6	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B					
7	BOUNDARY	6.5	EC		1.46 lb ai/a	1.8	pt/a	7EPP	A	83 bc	70 d	95 a	99 a	99 a
7	ACTIVATOR 90	100	LIQ		0.25 % v/v	0.25	% v/v	7EPP	A					
7	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B					
7	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B					
8	2,4-D LV4	3.8	EC		0.475 lb ae/a	1.0	pt/a	7EPP	A	60 d	53 e	99 a	99 a	99 a
8	ACTIVATOR 90	100	LIQ		0.25 % v/v	0.25	% v/v	7EPP	A					
8	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B					
8	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B					
9	2,4-D LV4	3.8	EC		0.95 lb ae/a	2	pt/a	7EPP	A	50 d	70 d	99 a	99 a	99 a
9	ACTIVATOR 90	100	LIQ		0.25 % v/v	0.25	% v/v	7EPP	A					
9	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B					
9	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B					
10	DUAL MAGNUM	7.62	EC		1.27 lb ai/a	1.33	pt/a	7EPP	A	99 a	99 a	99 a	99 a	99 a
10	GRAMOXONE INTEON	2	SL		0.75 lb ai/a	3.0	pt/a	7EPP	A					
10	ACTIVATOR 90	100	LIQ		0.25 % v/v	0.25	% v/v	7EPP	A					
10	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B					
10	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B					
11	PREFIX	5.28	EW		1.34 lb ai/a	2.03	pt/a	7EPP	A	99 a	99 a	99 a	99 a	99 a
11	GRAMOXONE INTEON	2	SL		0.75 lb ai/a	3.0	pt/a	7EPP	A					
11	ACTIVATOR 90	100	LIQ		0.25 % v/v	0.25	% v/v	7EPP	A					
11	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B					
11	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B					
12	BOUNDARY	6.5	EC		1.46 lb ai/a	1.8	pt/a	7EPP	A	99 a	99 a	99 a	99 a	99 a
12	GRAMOXONE INTEON	2	SL		0.75 lb ai/a	3.0	pt/a	7EPP	A					
12	ACTIVATOR 90	100	LIQ		0.25 % v/v	0.25	% v/v	7EPP	A					
12	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B					
12	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B					
13	DUAL MAGNUM	7.62	EC		1.27 lb ai/a	1.33	pt/a	7EPP	A	99 a	99 a	99 a	99 a	99 a
13	2,4-D LV4	3.8	EC		0.475 lb ae/a	1.0	pt/a	7EPP	A					
13	GRAMOXONE INTEON	2	SL		0.75 lb ai/a	3.0	pt/a	7EPP	A					
13	ACTIVATOR 90	100	LIQ		0.25 % v/v	0.25	% v/v	7EPP	A					
13	TOUCHDOWN TOTAL	4.17	SC		0.78 lb ae/a	1.5	pt/a	V3or6"W	B					
13	N-PAK AMS	100	LIQ		5.0 % v/v	5	% v/v	V3or6"W	B					

Gramoxone Inteon for Glyphosate-Resistant Marestalk.

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

Weed Code	SENGL	GERCA	GERCA	AMASS	AMASS
Crop Code					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	5-15-07	5-15-07	5-28-07	7-2-07	7-23-07
Trt-Eval Interval	7 DA-A	7 DA-A	20 DA-A	14 DA-B	35 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	99 a	99 a	99 a	99 a	99 a
14	PREFIX	5.28	EW	1.34	lb ai/a	2.03	pt/a	7EPP	A					
14	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A					
14	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A					
14	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A					
14	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B					
14	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B					
15	BOUNDARY	6.5	EC	1.46	lb ai/a	1.8	pt/a	7EPP	A					
15	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A					
15	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A					
15	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A					
15	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B					
15	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B					
16	DUAL MAGNUM	7.62	EC	1.27	lb ai/a	1.33	pt/a	7EPP	A					
16	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A					
16	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A					
16	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V3or6"W	B					
16	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B					
17	PREFIX	5.28	EW	1.34	lb ai/a	2.03	pt/a	7EPP	A					
17	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A					
17	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A					
17	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V3or6"W	B					
17	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B					
18	BOUNDARY	6.5	EC	1.46	lb ai/a	1.8	pt/a	7EPP	A					
18	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A					
18	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A					
18	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V3or6"W	B					
18	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B					
19	DUAL MAGNUM	7.62	EC	1.27	lb ai/a	1.33	pt/a	7EPP	A					
19	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A					
19	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A					
19	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A					
19	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V3or6"W	B					
19	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B					
20	PREFIX	5.28	EW	1.34	lb ai/a	2.03	pt/a	7EPP	A					
20	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A					
20	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A					
20	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A					
20	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V3or6"W	B					
20	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B					
21	BOUNDARY	6.5	EC	1.46	lb ai/a	1.8	pt/a	7EPP	A					
21	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A					
21	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3.0	pt/a	7EPP	A					
21	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	7EPP	A					
21	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V3or6"W	B					
21	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B					
22	CANOPY	75	WG	0.14	lb ai/a	3.0	oz/a	7EPP	A					
22	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A					
22	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	7EPP	A					
22	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	7EPP	A					
22	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B					
22	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B					
23	SONIC	70	WG	0.131	lb ai/a	3.0	oz/a	7EPP	A					
23	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A					
23	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	7EPP	A					
23	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	7EPP	A					
23	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B					
23	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B					

Gramoxone Inteon for Glyphosate-Resistant Marestalk.

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

Weed Code	SENGL	GERCA	GERCA	AMASS	AMASS
Crop Code					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
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Trt-Eval Interval	7 DA-A	7 DA-A	20 DA-A	14 DA-B	35 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code									
24	DPX-QER54	41.3	WG			3.5	oz/a	7EPP	A	97	ab	99	a	99	a			
24	->CLASSIC	25	WG	0.02	lb ai/a			7EPP	A									
24	->HARMONY GT XP	50	SG	0.00643	lb ai/a			7EPP	A									
24	->VALOR SX	51	WG	0.0635	lb ai/a			7EPP	A									
24	2,4-D LV4	3.8	EC	0.475	lb ae/a	1.0	pt/a	7EPP	A									
24	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	7EPP	A									
24	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	7EPP	A									
24	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	1.5	pt/a	V3or6"W	B									
24	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V3or6"W	B									
LSD (P=.05)										14.7		9.2		12.0		2.5		1.9
Replicate F										1.352		1.736		1.240		0.775		0.937
Replicate Prob(F)										0.2713		0.1883		0.2988		0.4666		0.3992
Treatment F										19.634		52.265		24.325		511.613		885.698
Treatment Prob(F)										0.0001		0.0001		0.0001		0.0001		0.0001

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

Trial Comments

1. Protocol: Syngenta (PQ962A).
2. Ratings: CI at 10 DAP and 7 da POST; WC at 7 + 14-21 da burndown; CI/WC 14 + 35 da POST.
3. Yield.
4. Photos appreciated.
5. DA-A and DA-B = Days after 7EPP and V3or6"W applications, respectively.
 AMASS = Amaranthus species including AMATA and AMARE.
6. Harvested 10-29-07, (2) 30 inch rows by 27 feet.