

Gramoxone Inteon No-Till Corn Burndown.

Project Code: 05-2B-MME60 Location: Belleville Research Center
Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
Trial Status: Final Updated: 11-14-05**Objective:**

Evaluate Gramoxone Inteon for burndown activity prior to Lexar applied early postemergence.

Weed Code	Common Name	Scientific Name
1.	HORPU barley, little	Hordeum pusillum Nutt.
2.	STEME chickweed, common	Stellaria media (L.) Vill.
3.	ALLVI garlic, wild	Allium vineale L.
4.	RANAB buttercup, smallflower	Ranunculus abortivus L.
5.	AMBTR ragweed, giant	Ambrosia trifida L.
6.	POLPY smartweed, Pennsylvania	Polygonum pensylvanicum L.

Crop 1:	ZEAMX corn, field	Variety:	33P65 RR
Planting Method:	Seeded	Planting Date:	5-8-05
Rate:	28000 S/A	Depth:	1.5 IN
Row Spacing:	30 IN		

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, 2004				

Field Prep./Maintenance: N 150 LB/A, P205 50 LB/A, K20 100 LB/A

Soil Name:	Weir	% OM:	1.6	pH:	6.1	CEC:	8
Texture:	Silt loam	Fert. Level:	P1: 91 LB/A, K: 410 LB/A				

APPLICATION DESCRIPTION

	A	B
Application Date:	04-19-05	05-18-05
Time of Day:	8:00	10:30
Application Method:	Spray	Spray
Application Timing:	3-6"W	SP-5"CN
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	62 F	70 F
% Relative Humidity:	50	45
Wind Velocity, Unit:	3 MPH	9 MPH
Soil Moisture:	NORMAL	NORMAL

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX V2
Height, Unit:	NA NA	3-5 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code:	HORPU	
Stage (leaves):	5-6	
Height (inches):	4-6	
Density:	High	
Weed 2 Code:	STEME	
Stage (leaves):	10+	
Height (inches):	4-6	
Density:	Medium	
Weed 3 Code:	ALLVI	
Stage (leaves):	3-4	
Height (inches):	6-12	
Density:	Low	
Weed 4 Code:	RANAB	
Stage (leaves):	10+	
Height (inches):	4-8	
Density:	Low	
Weed 5 Code:	AMBTR	AMBTR
Stage (leaves):	5-6	4-6
Height (inches):	1-4	1-4
Density:	Medium	Low
Weed 6 Code:	POLPY	POLPY
Stage (leaves):	5-6	2-4
Height (inches):	1-4	1-3
Density:	Low	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:	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA

NOTES:

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Weed Code								HORPU		HORPU		STEME		STEME		
Crop Code								ZeamX								
Rating Data Type								Yield		Control		Control		Control		
Rating Unit								bu/A		Percent		Percent		Percent		
Rating Date								10-14-05		04-26-05		05-03-05		05-18-05		
Trt-Eval Interval										7 DA-A		0 DA-B		14 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	
2	GRAMOXONE INTEON	2 SL		0.625	lb ai/a	2.5	pt/a	3-6"W	A	151	90	99	98	99	99	
2	ACTIVATOR 90	100 LIQ		0.125	% v/v	0.125	% v/v	3-6"W	A							
2	LEXAR	3.7 L		2.77	lb ai/a	3	qt/a	SP-5"CN	B							
3	GRAMOXONE INTEON	2 SL		0.75	lb ai/a	3	pt/a	3-6"W	A	135	90	99	82	98	99	
3	ACTIVATOR 90	100 LIQ		0.125	% v/v	0.125	% v/v	3-6"W	A							
3	LEXAR	3.7 L		2.77	lb ai/a	3	qt/a	SP-5"CN	B							
4	GRAMOXONE INTEON	2 SL		1	lb ai/a	4	pt/a	3-6"W	A	141	90	99	96	99	99	
4	ACTIVATOR 90	100 LIQ		0.125	% v/v	0.125	% v/v	3-6"W	A							
4	LEXAR	3.7 L		2.77	lb ai/a	3	qt/a	SP-5"CN	B							
5	GRAMOXONE INTEON	2 SL		0.625	lb ai/a	2.5	pt/a	3-6"W	A	127	90	99	93	99	99	
5	2,4-D LV4	3.8 EC		0.475	lb ai/a	1.0	pt/a	3-6"W	A							
5	ACTIVATOR 90	100 LIQ		0.125	% v/v	0.125	% v/v	3-6"W	A							
5	LEXAR	3.7 L		2.77	lb ai/a	3	qt/a	SP-5"CN	B							
6	GRAMOXONE INTEON	2 SL		0.75	lb ai/a	3	pt/a	3-6"W	A	156	90	99	91	98	99	
6	2,4-D LV4	3.8 EC		0.475	lb ai/a	1.0	pt/a	3-6"W	A							
6	ACTIVATOR 90	100 LIQ		0.125	% v/v	0.125	% v/v	3-6"W	A							
6	LEXAR	3.7 L		2.77	lb ai/a	3	qt/a	SP-5"CN	B							
7	GRAMOXONE INTEON	2 SL		1	lb ai/a	4	pt/a	3-6"W	A	147	90	99	94	99	99	
7	2,4-D LV4	3.8 EC		0.475	lb ai/a	1.0	pt/a	3-6"W	A							
7	ACTIVATOR 90	100 LIQ		0.125	% v/v	0.125	% v/v	3-6"W	A							
7	LEXAR	3.7 L		2.77	lb ai/a	3	qt/a	SP-5"CN	B							
8	GRAMOXONE INTEON	2 SL		0.625	lb ai/a	2.5	pt/a	3-6"W	A	161	90	99		99	99	
8	LEXAR	3.7 L		2.77	lb ai/a	3	qt/a	3-6"W	A							
8	ACTIVATOR 90	100 LIQ		0.125	% v/v	0.125	% v/v	3-6"W	A							
9	GRAMOXONE INTEON	2 SL		0.75	lb ai/a	3	pt/a	3-6"W	A	163	90	99		97	99	
9	LEXAR	3.7 L		2.77	lb ai/a	3	qt/a	3-6"W	A							
9	ACTIVATOR 90	100 LIQ		0.125	% v/v	0.125	% v/v	3-6"W	A							
10	GRAMOXONE INTEON	2 SL		1	lb ai/a	4	pt/a	3-6"W	A	171	90	99		97	99	
10	LEXAR	3.7 L		2.77	lb ai/a	3	qt/a	3-6"W	A							
10	ACTIVATOR 90	100 LIQ		0.125	% v/v	0.125	% v/v	3-6"W	A							
11	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	3-6"W	A	168	0	50		97	0	
11	DEGREE XTRA	4 L		3	lb ai/a	3	qt/a	3-6"W	A						50	
LSD (P=.05)										44.0	0.0	0.0	14.2	1.7	0.0	0.0
Replicate F										0.355	0.000	0.000	0.511	1.135	0.000	0.000
Replicate Prob(F)										0.7053	1.0000	1.0000	0.6125	0.3413	1.0000	1.0000
Treatment F										10.291	0.000	0.000	58.087	2651.528	0.000	0.000
Treatment Prob(F)										0.0001	1.0000	1.0000	0.0001	0.0001	1.0000	1.0000

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Weed Code								ALLVI	ALLVI	RANAB	RANAB	AMBTR	AMBTR	AMBTR	AMBTR		
Crop Code								Control	Control	Control	Control	Control	Control	Control	Control		
Rating Data Type								Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent		
Rating Unit								04-26-05	05-03-05	04-26-05	05-03-05	04-26-05	05-03-05	06-01-05	06-29-05		
Rating Date								7 DA-A	14 DA-A	7 DA-A	14 DA-A	7 DA-A	14 DA-A	14 DA-B	42 DA-B		
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	0	0	0	0	0	0	
2	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	3-6"W	A	83	95	99	99	99	99	99	
2	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	3-6"W	A								
2	LEXAR	3.7	L	2.77	lb ai/a	3	qt/a	SP-5"CN	B								
3	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3-6"W	A	90	95	99	99	99	99	99	
3	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	3-6"W	A								
3	LEXAR	3.7	L	2.77	lb ai/a	3	qt/a	SP-5"CN	B								
4	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	3-6"W	A	87	95	99	99	99	99	99	
4	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	3-6"W	A								
4	LEXAR	3.7	L	2.77	lb ai/a	3	qt/a	SP-5"CN	B								
5	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	3-6"W	A	90	95	99	99	99	99	99	
5	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	3-6"W	A								
5	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	3-6"W	A								
5	LEXAR	3.7	L	2.77	lb ai/a	3	qt/a	SP-5"CN	B								
6	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3-6"W	A	87	95	99	99	99	99	99	
6	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	3-6"W	A								
6	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	3-6"W	A								
6	LEXAR	3.7	L	2.77	lb ai/a	3	qt/a	SP-5"CN	B								
7	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	3-6"W	A	90	95	99	99	99	99	99	
7	2,4-D LV4	3.8	EC	0.475	lb ai/a	1.0	pt/a	3-6"W	A								
7	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	3-6"W	A								
7	LEXAR	3.7	L	2.77	lb ai/a	3	qt/a	SP-5"CN	B								
8	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	3-6"W	A	87	95	99	99	99	99	99	
8	LEXAR	3.7	L	2.77	lb ai/a	3	qt/a	3-6"W	A								
8	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	3-6"W	A								
9	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3-6"W	A	87	95	99	99	99	99	99	
9	LEXAR	3.7	L	2.77	lb ai/a	3	qt/a	3-6"W	A								
9	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	3-6"W	A								
10	GRAMOXONE INTEON	2	SL	1	lb ai/a	4	pt/a	3-6"W	A	87	95	99	99	99	99	99	
10	LEXAR	3.7	L	2.77	lb ai/a	3	qt/a	3-6"W	A								
10	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	3-6"W	A								
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-6"W	A	0	50	0	50	0	50	99	
11	DEGREE XTRA	4	L	3	lb ai/a	3	qt/a	3-6"W	A								
LSD (P=.05)										5.5	0.0	0.0	0.0	0.0	0.0	0.0	
Replicate F										8.857	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)										0.0018	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F										354.743	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)										0.0001	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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Weed Code										ZIAMX		AMBEL		POLPY	
Crop Code										Injury		Control		Control	
Rating Data Type										Percent		Percent		Percent	
Rating Unit										06-01-05		06-29-05		06-01-05	
Rating Date										14 DA-B		42 DA-B		14 DA-B	
Trt-Eval Interval										14 DA-B		42 DA-B		14 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
2	GRAMOXONE INTEON	2 SL		0.625 lb ai/a		2.5 pt/a		3-6"W	A	0	0	99	99	99	99
2	ACTIVATOR 90	100 LIQ		0.125 % v/v		0.125 % v/v		3-6"W	A						
2	LEXAR	3.7 L		2.77 lb ai/a		3 qt/a		SP-5"CN	B						
3	GRAMOXONE INTEON	2 SL		0.75 lb ai/a		3 pt/a		3-6"W	A	0	0	99	99	99	99
3	ACTIVATOR 90	100 LIQ		0.125 % v/v		0.125 % v/v		3-6"W	A						
3	LEXAR	3.7 L		2.77 lb ai/a		3 qt/a		SP-5"CN	B						
4	GRAMOXONE INTEON	2 SL		1 lb ai/a		4 pt/a		3-6"W	A	0	0	99	99	99	99
4	ACTIVATOR 90	100 LIQ		0.125 % v/v		0.125 % v/v		3-6"W	A						
4	LEXAR	3.7 L		2.77 lb ai/a		3 qt/a		SP-5"CN	B						
5	GRAMOXONE INTEON	2 SL		0.625 lb ai/a		2.5 pt/a		3-6"W	A	0	0	99	99	99	99
5	2,4-D LV4	3.8 EC		0.475 lb ai/a		1.0 pt/a		3-6"W	A						
5	ACTIVATOR 90	100 LIQ		0.125 % v/v		0.125 % v/v		3-6"W	A						
5	LEXAR	3.7 L		2.77 lb ai/a		3 qt/a		SP-5"CN	B						
6	GRAMOXONE INTEON	2 SL		0.75 lb ai/a		3 pt/a		3-6"W	A	0	0	99	99	99	99
6	2,4-D LV4	3.8 EC		0.475 lb ai/a		1.0 pt/a		3-6"W	A						
6	ACTIVATOR 90	100 LIQ		0.125 % v/v		0.125 % v/v		3-6"W	A						
6	LEXAR	3.7 L		2.77 lb ai/a		3 qt/a		SP-5"CN	B						
7	GRAMOXONE INTEON	2 SL		1 lb ai/a		4 pt/a		3-6"W	A	0	0	99	99	99	99
7	2,4-D LV4	3.8 EC		0.475 lb ai/a		1.0 pt/a		3-6"W	A						
7	ACTIVATOR 90	100 LIQ		0.125 % v/v		0.125 % v/v		3-6"W	A						
7	LEXAR	3.7 L		2.77 lb ai/a		3 qt/a		SP-5"CN	B						
8	GRAMOXONE INTEON	2 SL		0.625 lb ai/a		2.5 pt/a		3-6"W	A	0	0	99	99	99	99
8	LEXAR	3.7 L		2.77 lb ai/a		3 qt/a		3-6"W	A						
8	ACTIVATOR 90	100 LIQ		0.125 % v/v		0.125 % v/v		3-6"W	A						
9	GRAMOXONE INTEON	2 SL		0.75 lb ai/a		3 pt/a		3-6"W	A	0	0	99	98	99	99
9	LEXAR	3.7 L		2.77 lb ai/a		3 qt/a		3-6"W	A						
9	ACTIVATOR 90	100 LIQ		0.125 % v/v		0.125 % v/v		3-6"W	A						
10	GRAMOXONE INTEON	2 SL		1 lb ai/a		4 pt/a		3-6"W	A	0	0	99	99	99	99
10	LEXAR	3.7 L		2.77 lb ai/a		3 qt/a		3-6"W	A						
10	ACTIVATOR 90	100 LIQ		0.125 % v/v		0.125 % v/v		3-6"W	A						
11	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		3-6"W	A	0	0	99	98	99	99
11	DEGREE XTRA	4 L		3 lb ai/a		3 qt/a		3-6"W	A						
LSD (P=.05)										0.0	0.0	0.0	1.0	0.0	0.0
Replicate F										0.000	0.000	0.000	0.280	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	1.0000	0.7584	1.0000	1.0000
Treatment F										0.000	0.000	0.000	8211.216	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	1.0000	0.0001	1.0000	1.0000

Trial Comments

1. Protocol: Syngenta.
2. Ratings: WC 7 and 14 DA application A and prior to application B;
 CI and WC 14 and 42 DA application B.
3. Yield.
4. Photos depicting differences in treatments are desired.
5. Application codes: 3-6"W = 3 to 6 inch weeds; SP-5"CN = spike to 5 inch corn.
6. DA-A = Days after 3-6"W application. DA-B = Days after SP-5"CN application.
 Ratings at 0 DA-B were at SP-5"CN application.
7. Harvested 10-14-05, (2) 30 inch rows by 25 ft.