

No-Till Corn Weed Control Studies

Southern Illinois University

Lexar in No-Till Corn.

Trial ID: 09-6C-E95

Location: Belleville Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
City State Zip Country: Belleville IL 62221 USA
Trial Status: FINAL **Initiation Date:** 05-06-09

Objectives: Compare two-pass Syngenta treatments to full season rates of Lexar and to Corvus, Integrity, and Balance Flexx for efficacy and yield.

Crop 1: ZEAMD Dent corn **Variety:** P33K44 **Description:** RR/LL
Planting Method: SEEDDED **Planting Date:** 05-24-09
Rate, Unit: 28000 S/A **Depth, Unit:** 1.5 IN
Row Spacing, Unit: 30 IN

Pest 1 Type: W **Code:** SETFA Setaria faberi Herrm. foxtail, giant
Pest 2 Type: W **Code:** AMBTR Ambrosia trifida L. ragweed, giant
Pest 3 Type: W **Code:** XANST Xanthium strumarium L. cocklebur, common
Pest 4 Type: W **Code:** IPOHE Ipomoea hederacea (L.) Jacq. morningglory, ivyleaf
Pest 5 Type: W **Code:** CHEAL Chenopodium album L. lambsquarters, common

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 24 FT **Tillage Type:** NO-TILL
Replications: 4 **Study Design:** Randomized Complete Block

Prior Crops, Year
1. ZEAMD 2008

Field Prep./Maintenance: N 150 LB/A, P2O5 0 LB/A, K2O 100 LB/A

% OM: 1.6 **Texture:** SILT LOAM
pH: 6.1 **Soil Name:** CASEYVILLE
CEC: 8 **Fert. Level:** P1 82 LB/A, K 408 LB/A

	Application Description		
	A	B	C
Application Date:	05-06-09	06-10-09	06-12-09
Time of Day:	17:00	10:00	8:00
Application Method:	Spray	Spray	Spray
Application Timing:	BURNDOWN	2-4"W-1	2-4"W-2
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	RFK	RFK	DKP
Air Temperature, Unit:	66 F	78 F	64 F
% Relative Humidity:	92	92	92
Wind Velocity, Unit:	0 MPH	0 MPH	1 MPH
Wind Direction:	NA	NA	N
Dew Presence (Y/N):	N	N	N
Soil Moisture:	ABONOR	ABONOR	ABONOR
% Cloud Cover:	0	0	100

	05-06-09	06-10-09	06-12-09
Crop stage at application:	NA	V2-3	V2-3
Height Min, Max (inch):		4 5	4 5

	Pest Stage At Each Application		
	05-06-09	06-10-09	06-12-09
Application Date:	05-06-09	06-10-09	06-12-09
Weed Code:	SETFA	SETFA	SETFA
Stage Majority (leaves):	NA	4	4
Stage Min, Max:		3 4	3 4
Height Majority:		4 IN	4 IN
Height Min, Max:		1 4	3 5
Density, Unit:		0.5 FT2	0.4 FT2
Weed Code:	AMBTR	AMBTR	AMBTR
Stage Majority (leaves):	5	2	6
Stage Min, Max:	5 8	1 2	2 8
Height Majority:	4 IN	0.5 IN	3 IN
Height Min, Max:	2 6	0 1	2 5
Density, Unit:	4 FT2	0.5 FT2	0.2 FT2
Weed Code:	XANST	XANST	XANST
Stage Majority (leaves):	NA	6	2
Stage Min, Max:		4 8	2 4
Height Majority:		3 IN	2 IN
Height Min, Max:		2 4	1 5
Density, Unit:		1 FT2	0.3 FT2
Weed Code:	IPOHE	IPOHE	IPOHE
Stage Majority (leaves):	NA	4	4
Stage Min, Max:		4 8	2 6
Height Majority:		2 IN	2 IN
Height Min, Max:		1 3	1 3
Density, Unit:		0.5 FT2	0.1 FT2
Weed Code:	CHEAL	CHEAL	CHEAL
Stage Majority (leaves):	10	NA	NA
Stage Min, Max:	7 10		
Height Majority:	3 IN		
Height Min, Max:	2 4		
Density, Unit:	2 FT2		

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Application Equipment

Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	30 PSI	30 PSI	30 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan
Nozzle Size:	XR 8002	XR 8002	XR 8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

Lexar in No-Till Corn.

Trial ID: 09-6C-E95

Location: Belleville Res. Center

Pest Code
Crop Code
Rating Date
Rating Data Type
Rating Unit
Rating Timing
Trt-Eval Interval

ZEAMD 11-14-09 06-10-09 07-08-09 08-05-09
Moisture Yield Injury Injury Injury
Percent bu/A Percent Percent Percent
-2 DA-C 26 DA-C 54 DA-C
0 DA-B 28 DA-B 56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A	15.6	ab	64	b	0 a
1	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A					0 a
1	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A					
2	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	BURNDOWN	A	15.5	ab	105	ab	0 a
2	AATREX	4	SC	0.5	lb ai/a	1	pt/a	BURNDOWN	A					0 a
2	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A					
2	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A					
2	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A					
3	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	BURNDOWN	A	16.0	ab	90	ab	0 a
3	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A					0 a
3	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A					
3	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A					
3	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	2-4"W-2	C					
4	BICEP II MAGNUM	5.5	SC	1.72	lb ai/a	1.25	qt/a	BURNDOWN	A	15.6	ab	105	ab	0 a
4	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A					0 a
4	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A					
4	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A					
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	%v/v	2-4"W-2	C					
4	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	2-4"W-2	C					
4	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	%v/v	2-4"W-2	C					
5	LEXAR	3.7	SC	1.85	lb ai/a	2	qt/a	BURNDOWN	A	16.2	ab	116	a	0 a
5	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A					
5	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A					
5	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A					
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	%v/v	2-4"W-2	C					
5	TOUCHDOWN TOTAL	4.17	SL	0.98	lb ae/a	30	fl oz/a	2-4"W-2	C					
6	BICEP II MAGNUM	5.5	SC	2.9	lb ai/a	2.1	qt/a	BURNDOWN	A	16.0	ab	115	a	0 a
6	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A					0 a
6	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A					
6	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A					
6	A16907	3.7	SC	0.694	lb ai/a	1.5	pt/a	2-4"W-2	C					
6	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	2-4"W-2	C					
6	28% UAN	100	SL	1	% v/v	1	%v/v	2-4"W-2	C					
7	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A	16.4	a	99	ab	0 a
7	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A					0 a
7	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A					
7	A16907	3.7	SC	0.694	lb ai/a	1.5	pt/a	2-4"W-1	B					
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	%v/v	2-4"W-1	B					
7	TOUCHDOWN TOTAL	4.17	SL	0.98	lb ae/a	30	fl oz/a	2-4"W-1	B					
8	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A	15.3	b	103	ab	0 a
8	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A					0 a
8	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A					
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	%v/v	2-4"W-1	B					
8	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	2-4"W-1	B					
8	AATREX	4	SC	1	lb ai/a	1	qt/a	2-4"W-1	B					
8	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	%v/v	2-4"W-1	B					
9	CORVUS	2.62	SC	0.0676	lb ai/a	3.3	fl oz/a	BURNDOWN	A	16.3	ab	96	ab	0 a
9	AATREX	4	SC	1	lb ai/a	1	qt/a	BURNDOWN	A					0 a
9	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A					
9	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A					
9	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A					
10	BALANCE FLEXX	2	SC	0.078	lb ai/a	5	fl oz/a	BURNDOWN	A	15.6	ab	87	ab	0 a
10	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	BURNDOWN	A					0 a
10	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A					
10	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A					
10	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A					
11	INTEGRITY	5.57	EC	0.87	lb ai/a	20	fl oz/a	BURNDOWN	A	15.9	ab	76	ab	0 a
11	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A					0 a
11	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A					
11	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A					

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Pest Code					
Crop Code					
Rating Date	11-14-09	11-14-09	06-10-09	07-08-09	08-05-09
Rating Data Type	Moisture	Yield	Injury	Injury	Injury
Rating Unit	Percent	bu/A	Percent	Percent	Percent
Rating Timing			-2 DA-C	26 DA-C	54 DA-C
Trt-Eval Interval			0 DA-B	28 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
LSD (P=.05)										1.06	44.4	0.0	0.0	0.0
Replicate F										1.289	1.363	0.000	0.000	0.000
Replicate Prob(F)										0.2961	0.2728	1.0000	1.0000	1.0000
Treatment F										0.890	1.064	0.000	0.000	0.000
Treatment Prob(F)										0.5535	0.4181	1.0000	1.0000	1.0000

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

Lexar in No-Till Corn.

Trial ID: 09-6C-E95

Location: Belleville Res. Center

										SETFA	SETFA	SETFA	AMBTR	AMBTR	AMBTR
Pest Code										06-10-09	07-08-09	08-05-09	06-10-09	07-08-09	08-05-09
Crop Code										Control	Control	Control	Control	Control	Control
Rating Date										Percent	Percent	Percent	Percent	Percent	Percent
Rating Data Type										-2 DA-C	26 DA-C	54 DA-C	-2 DA-C	26 DA-C	54 DA-C
Rating Unit										0 DA-B	28 DA-B	56 DA-B	0 DA-B	28 DA-B	56 DA-B
Rating Timing															
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A	91 bc	28 e	18 e	94 bc	79 d	58 c
1	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
1	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						
2	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	BURNDOWN	A	98 a	74 bc	60 bc	96 abc	92 c	78 b
2	AATREX	4	SC	0.5	lb ai/a	1	pt/a	BURNDOWN	A						
2	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A						
2	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
2	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						
3	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	BURNDOWN	A	94 ab	73 bc	79 ab	97 ab	98 ab	95 ab
3	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A						
3	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
3	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						
3	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	2-4"W-2	C						
4	BICEP II MAGNUM	5.5	SC	1.72	lb ai/a	1.25	qt/a	BURNDOWN	A	97 ab	99 a	98 a	97 ab	99 a	99 a
4	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A						
4	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
4	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	%v/v	2-4"W-2	C						
4	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	2-4"W-2	C						
4	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	%v/v	2-4"W-2	C						
5	LEXAR	3.7	SC	1.85	lb ai/a	2	qt/a	BURNDOWN	A	94 ab	96 a	94 a	98 ab	99 ab	97 a
5	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A						
5	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
5	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	%v/v	2-4"W-2	C						
5	TOUCHDOWN TOTAL	4.17	SL	0.98	lb ae/a	30	fl oz/a	2-4"W-2	C						
6	BICEP II MAGNUM	5.5	SC	2.9	lb ai/a	2.1	qt/a	BURNDOWN	A	97 ab	94 a	89 a	96 ab	98 ab	98 a
6	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A						
6	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
6	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						
6	A16907	3.7	SC	0.694	lb ai/a	1.5	pt/a	2-4"W-2	C						
6	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	2-4"W-2	C						
6	28% UAN	100	SL	1	% v/v	1	%v/v	2-4"W-2	C						
7	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A	85 c	91 ab	92 a	91 c	99 ab	97 a
7	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
7	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						
7	A16907	3.7	SC	0.694	lb ai/a	1.5	pt/a	2-4"W-1	B						
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	%v/v	2-4"W-1	B						
7	TOUCHDOWN TOTAL	4.17	SL	0.98	lb ae/a	30	fl oz/a	2-4"W-1	B						
8	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A	86 c	98 a	97 a	94 bc	99 ab	98 a
8	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
8	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	%v/v	2-4"W-1	B						
8	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	2-4"W-1	B						
8	AATREX	4	SC	1	lb ai/a	1	qt/a	2-4"W-1	B						
8	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	%v/v	2-4"W-1	B						
9	CORVUS	2.62	SC	0.0676	lb ai/a	3.3	fl oz/a	BURNDOWN	A	97 ab	65 cd	58 bcd	99 a	95 abc	90 ab
9	AATREX	4	SC	1	lb ai/a	1	qt/a	BURNDOWN	A						
9	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A						
9	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
9	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						
10	BALANCE FLEXX	2	SC	0.078	lb ai/a	5	fl oz/a	BURNDOWN	A	96 ab	53 d	53 cd	98 ab	94 bc	89 ab
10	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	BURNDOWN	A						
10	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A						
10	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
10	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						
11	INTEGRITY	5.57	EC	0.87	lb ai/a	20	fl oz/a	BURNDOWN	A	95 ab	64 cd	35 de	96 abc	92 c	82 ab
11	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A						
11	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
11	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						

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Pest Code	SETFA	SETFA	SETFA	AMBTR	AMBTR	AMBTR
Crop Code						
Rating Date	06-10-09	07-08-09	08-05-09	06-10-09	07-08-09	08-05-09
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing	-2 DA-C	26 DA-C	54 DA-C	-2 DA-C	26 DA-C	54 DA-C
Trt-Eval Interval	0 DA-B	28 DA-B	56 DA-B	0 DA-B	28 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
LSD (P=.05)									
Replicate F									
Replicate Prob(F)									
Treatment F									
Treatment Prob(F)									

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

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										XANST	XANST	XANST	IPOHE	IPOHE	IPOHE
Pest Code										06-10-09	07-08-09	08-05-09	06-10-09	07-08-09	08-05-09
Crop Code										Control	Control	Control	Control	Control	Control
Rating Date										Percent	Percent	Percent	Percent	Percent	Percent
Rating Data Type										-2 DA-C	26 DA-C	54 DA-C	-2 DA-C	26 DA-C	54 DA-C
Rating Unit										0 DA-B	28 DA-B	56 DA-B	0 DA-B	28 DA-B	56 DA-B
Rating Timing															
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A	97 ab	70 c	70 d	92 bc	38 e	35 c
1	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
1	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						
2	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	BURNDOWN	A	99 a	84 b	79 cd	97 ab	55 de	50 bc
2	AATREX	4	SC	0.5	lb ai/a	1	pt/a	BURNDOWN	A						
2	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A						
2	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
2	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						
3	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	BURNDOWN	A	99 a	98 a	95 a	98 a	95 ab	89 a
3	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A						
3	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
3	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						
3	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	2-4"W-2	C						
4	BICEP II MAGNUM	5.5	SC	1.72	lb ai/a	1.25	qt/a	BURNDOWN	A	96 b	96 a	94 a	97 ab	97 a	94 a
4	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A						
4	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
4	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	%v/v	2-4"W-2	C						
4	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	2-4"W-2	C						
4	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	%v/v	2-4"W-2	C						
5	LEXAR	3.7	SC	1.85	lb ai/a	2	qt/a	BURNDOWN	A	98 ab	91 ab	95 a	94 ab	82 abc	85 a
5	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A						
5	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
5	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	%v/v	2-4"W-2	C						
5	TOUCHDOWN TOTAL	4.17	SL	0.98	lb ae/a	30	fl oz/a	2-4"W-2	C						
6	BICEP II MAGNUM	5.5	SC	2.9	lb ai/a	2.1	qt/a	BURNDOWN	A	99 a	97 a	97 a	95 ab	99 a	87 a
6	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A						
6	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
6	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						
6	A16907	3.7	SC	0.694	lb ai/a	1.5	pt/a	2-4"W-2	C						
6	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	2-4"W-2	C						
6	28% UAN	100	SL	1	% v/v	1	%v/v	2-4"W-2	C						
7	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A	90 c	95 a	97 a	88 c	72 cd	69 ab
7	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
7	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						
7	A16907	3.7	SC	0.694	lb ai/a	1.5	pt/a	2-4"W-1	B						
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	%v/v	2-4"W-1	B						
7	TOUCHDOWN TOTAL	4.17	SL	0.98	lb ae/a	30	fl oz/a	2-4"W-1	B						
8	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A	90 c	97 a	96 a	92 bc	89 abc	92 a
8	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
8	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	%v/v	2-4"W-1	B						
8	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	2-4"W-1	B						
8	AATREX	4	SC	1	lb ai/a	1	qt/a	2-4"W-1	B						
8	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	%v/v	2-4"W-1	B						
9	CORVUS	2.62	SC	0.0676	lb ai/a	3.3	fl oz/a	BURNDOWN	A	99 a	94 ab	92 ab	98 a	74 bcd	53 bc
9	AATREX	4	SC	1	lb ai/a	1	qt/a	BURNDOWN	A						
9	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A						
9	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
9	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						
10	BALANCE FLEXX	2	SC	0.078	lb ai/a	5	fl oz/a	BURNDOWN	A	99 a	97 a	90 ab	99 a	83 abc	70 ab
10	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	BURNDOWN	A						
10	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A						
10	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
10	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						
11	INTEGRITY	5.57	EC	0.87	lb ai/a	20	fl oz/a	BURNDOWN	A	98 ab	91 ab	83 bc	99 a	80 abc	71 ab
11	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A						
11	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A						
11	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A						

Lexar in No-Till Corn.

Trial ID: 09-6C-E95

Location: Belleville Res. Center

Pest Code	XANST	XANST	XANST	IPOHE	IPOHE	IPOHE
Crop Code						
Rating Date	06-10-09	07-08-09	08-05-09	06-10-09	07-08-09	08-05-09
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing	-2 DA-C	26 DA-C	54 DA-C	-2 DA-C	26 DA-C	54 DA-C
Trt-Eval Interval	0 DA-B	28 DA-B	56 DA-B	0 DA-B	28 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate	Growth Unit	Stage	Appl Code						
LSD (P=.05)											3.0	10.6	10.0	4.8	23.1	28.1
Replicate F											0.629	2.219	5.063	3.834	1.158	0.590
Replicate Prob(F)											0.6019	0.1064	0.0059	0.0195	0.3421	0.6261
Treatment F											11.049	5.101	6.315	4.432	5.432	4.038
Treatment Prob(F)											0.0001	0.0002	0.0001	0.0007	0.0001	0.0014

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

Lexar in No-Till Corn.

Trial ID: 09-6C-E95

Location: Belleville Res. Center

Pest Code	CHEAL	CHEAL	CHEAL
Crop Code			
Rating Date	06-10-09	07-08-09	08-05-09
Rating Data Type	Control	Control	Control
Rating Unit	Percent	Percent	Percent
Rating Timing	-2 DA-C	26 DA-C	54 DA-C
Trt-Eval Interval	0 DA-B	28 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A	99 a	99 a	96 b
1	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A			
1	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A			
2	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	BURNDOWN	A	99 a	97 ab	99 a
2	AATREX	4	SC	0.5	lb ai/a	1	pt/a	BURNDOWN	A			
2	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A			
2	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A			
2	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A			
3	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	BURNDOWN	A	99 a	99 a	99 a
3	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A			
3	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A			
3	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A			
3	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	2-4"W-2	C			
4	BICEP II MAGNUM	5.5	SC	1.72	lb ai/a	1.25	qt/a	BURNDOWN	A	99 a	99 a	99 a
4	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A			
4	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A			
4	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A			
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	%v/v	2-4"W-2	C			
4	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	2-4"W-2	C			
4	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	%v/v	2-4"W-2	C			
5	LEXAR	3.7	SC	1.85	lb ai/a	2	qt/a	BURNDOWN	A	99 a	95 b	98 ab
5	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A			
5	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A			
5	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A			
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	%v/v	2-4"W-2	C			
5	TOUCHDOWN TOTAL	4.17	SL	0.98	lb ae/a	30	fl oz/a	2-4"W-2	C			
6	BICEP II MAGNUM	5.5	SC	2.9	lb ai/a	2.1	qt/a	BURNDOWN	A	99 a	99 a	99 a
6	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A			
6	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A			
6	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A			
6	A16907	3.7	SC	0.694	lb ai/a	1.5	pt/a	2-4"W-2	C			
6	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	2-4"W-2	C			
6	28% UAN	100	SL	1	% v/v	1	%v/v	2-4"W-2	C			
7	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A	97 b	99 a	99 a
7	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A			
7	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A			
7	A16907	3.7	SC	0.694	lb ai/a	1.5	pt/a	2-4"W-1	B			
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	%v/v	2-4"W-1	B			
7	TOUCHDOWN TOTAL	4.17	SL	0.98	lb ae/a	30	fl oz/a	2-4"W-1	B			
8	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A	99 a	99 a	99 a
8	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A			
8	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A			
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	%v/v	2-4"W-1	B			
8	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	2-4"W-1	B			
8	AATREX	4	SC	1	lb ai/a	1	qt/a	2-4"W-1	B			
8	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	%v/v	2-4"W-1	B			
9	CORVUS	2.62	SC	0.0676	lb ai/a	3.3	fl oz/a	BURNDOWN	A	99 a	97 ab	99 a
9	AATREX	4	SC	1	lb ai/a	1	qt/a	BURNDOWN	A			
9	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A			
9	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A			
9	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A			
10	BALANCE FLEXX	2	SC	0.078	lb ai/a	5	fl oz/a	BURNDOWN	A	99 a	99 a	99 a
10	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	BURNDOWN	A			
10	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A			
10	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A			
10	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A			
11	INTEGRITY	5.57	EC	0.87	lb ai/a	20	fl oz/a	BURNDOWN	A	99 a	98 ab	99 a
11	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	BURNDOWN	A			
11	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	BURNDOWN	A			
11	PRIME OIL COC	100	SL	1	% v/v	1	%v/v	BURNDOWN	A			

Lexar in No-Till Corn.

Trial ID: 09-6C-E95

Location: Belleville Res. Center

Pest Code	CHEAL	CHEAL	CHEAL
Crop Code			
Rating Date	06-10-09	07-08-09	08-05-09
Rating Data Type	Control	Control	Control
Rating Unit	Percent	Percent	Percent
Rating Timing	-2 DA-C	26 DA-C	54 DA-C
Trt-Eval Interval	0 DA-B	28 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
LSD (P=.05)									
Replicate F									
Replicate Prob(F)									
Treatment F									
Treatment Prob(F)									

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

Trial Comments

1. Protocol: Syngenta (HRDL01X4), BASF.
2. Ratings: CI/WC at 0, 28 + 56 da B.
3. Burndown application should target 4-6" weeds.
4. Yield.
5. Harvested 11-14-09, (2) 30 inch rows by 21 ft.