

## Evaluation of Grass Control in No-Till Corn.

01-2B-W205

**OBJECTIVE:** Comparison of several grass herbicides applied early preplant, preemergence and postemergence in no-till corn.

**SUMMARY:** None of the grass herbicides caused any corn injury. Grass herbicides applied EPP 30 provided poor control of giant foxtail 42 days after planting. Grass herbicides applied EPP 15 controlled giant foxtail 0 to 80% with the greatest control provided by Balance. Grass herbicides applied PRE provided 50 to 91% control of giant foxtail with the greatest control provided by Define. Grass herbicides applied POST controlled giant foxtail, 63 to 98% with the greatest control provided by Steadfast and Define.

Corn yield ranged from 0 to 209 bu/A. Generally, grain yield increased with grass herbicides applied PRE or POST.

### HERBICIDES

AXIOM 68 WG  
 BALANCE 75 WG  
 BASIS 75 WG  
 CALLISTO 4 SC  
 DEFINE 60 WG  
 DEGREE 3.8 ME  
 DUAL II MAGNUM 7.64 EC  
 HARNESS 7 EC  
 OUTLOOK 6 EC  
 PRINCEP 90 WG  
 ROUNDUP ULTRA 3 SL  
 STEADFAST 75 WG  
 TOPNOTCH 3.2 ME

### WEEDS

foxtail, giant

### CROP

corn, field

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PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

## Evaluation of Grass Control in No-Till Corn.

Project Code: 01-2B-W205      Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country:      Belleville      IL 62221 USA  
Trial Status: Final      Initiation Date: 3-30-01

## Objective:

Comparison of several grass herbicides applied early preplant, preemergence and postemergence in no-till corn.

Weed Code      Common Name      Scientific Name  
1. SETFA foxtail, giant *Setaria faberi* Herrm.Crop 1:      ZEAMX corn, field      Variety:      P33G28 LL  
Planting Method: Seeded      Planting Date: 5-12-01  
Rate:      28000 S/A      Depth:      1.5 IN  
Row Spacing:      30 INPlot Width, Unit: 10      FT      Plot Length, Unit: 28      FT      Reps: 3  
Tillage Type: No-Till      Study Design: Randomized complete block  
Previous Crop, Year: GLXMA, 2000  
Field Prep./Maintenance: N 150 LB/A, P205 0 LB/A, K20 150 LB/ASoil Name: Weir      % OM: 1.5      pH: 6.4      CEC: 9  
Texture: Silt loam      Fert. Level: P1: 87 LB/A, K: 259 LB/A

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	4-12-01	4-26-01	5-12-01	5-23-01	5-29-01	5-17-01
Time of Day:	10:00	10:00	7:00	7:00	14:30	11:00
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	EPP30	EPP15	PRE	3"CORN	2"GRASS	3"BL-1
Applic. Placement:	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	56 F	63 F	60 F	58 F	77 F	80 F
% Relative Humidity:	54	54	84	70	48	64
Wind Velocity, Unit:	3 MPH	5 MPH	5 MPH	3 MPH	0 MPH	2-5 MPH
Soil Moisture:	ABONOR	NORMAL	BELNOR	ABONOR	ABONOR	BELNOR
	G	H	I			
Application Date:	5-30-01	6-12-01	6-12-01			
Time of Day:	9:00	11:00	11:00			
Application Method:	SPRAY	SPRAY	SPRAY			
Application Timing:	3"BL-2	3"BL-3	3"BL-4			
Applic. Placement:	BROFOL	BROFOL	BROFOL			
Air Temp., Unit:	66 F	92 F	92 F			
% Relative Humidity:	76	50	50			
Wind Velocity, Unit:	0-1 MPH	2-3 MPH	2-3 MPH			
Soil Moisture:	ABONOR	NORMAL	NORMAL			

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX NA	ZEAMX NA	ZEAMX V2	ZEAMX V4	ZEAMX NA
Height, Unit:	NA NA	NA NA	NA NA	3 IN	6 IN	NA IN
	G	H	I			
Crop 1 Code, Stage:	ZEAMX V4	ZEAMX V4-V5	ZEAMX V4-V5			
Height, Unit:	6 IN	8-10 IN	8-10 IN			

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 Code:	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA
Stage(leaves):	0-1	3-4	3-4	0-1	2-4	3-4
Height(inches):	0-0.5	3-4	4-6	0-0.5	0-3	1-4
Density:	Low	Low	Medium	Low	Medium	Medium

	<b>G</b>	<b>H</b>	<b>I</b>
Weed 1 Code:	SETFA	SETFA	SETFA
Stage(leaves):	2-4	2-8	2-8
Height(inches):	0-3	0-4	0-6
Density:	Medium	Medium	Medium

## APPLICATION EQUIPMENT

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI	40 PSI	40 PSI	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan
Nozzle Size:	8002	8003	8003	8003	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA	20 GPA	20 GPA	20 GPA

	<b>G</b>	<b>H</b>	<b>I</b>
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: HARVESTED 10-1-01, 2 ROWS X 25 FT.

## Evaluation of Grass Control in No-Till Corn.

Project Code: 01-2B-W205 Location: Belleville Research Center

Weed Code									SETFA	SETFA	SETFA
Crop Code									ZEAMX	ZEAMX	ZEAMX
Rating Data Type									Yield	Injury	Injury
Rating Unit									bu/A	Percent	Percent
Rating Date									10-1-01	6-2-01	6-23-01
Trt-Eval Interval									21 DAP	42 DAP	0 DAP
									Control	Control	Control
									Percent	Percent	Percent
									21 DAP	42 DAP	42 DAP

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	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	EPP30	A	106	0	0	90	78	0
2	DUAL II MAGNUM	7.64	EC	1.27	LB A/A	1.33	PT/A	EPP30	A						
2	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-1	F						
2	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-1	F						
2	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-1	F						
3	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	EPP30	A	62	0	0	85	0	0
3	TOPNOTCH	3.2	ME	1.8	LB A/A	4.5	PT/A	EPP30	A						
3	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-1	F						
3	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-1	F						
3	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-1	F						
4	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	EPP30	A	44	0	0	72	0	0
4	HARNESS	7	EC	1.8	LB A/A	2.06	PT/A	EPP30	A						
4	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-1	F						
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-1	F						
4	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-1	F						
5	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	EPP30	A	145	0	0	90	78	0
5	DEGREE	3.8	ME	1.8	LB A/A	3.8	PT/A	EPP30	A						
5	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-1	F						
5	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-1	F						
5	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-1	F						
6	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	EPP30	A	85	0	0	82	42	0
6	OUTLOOK	6	EC	0.75	LB A/A	1	PT/A	EPP30	A						
6	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-1	F						
6	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-1	F						
6	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-1	F						
7	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	EPP30	A	116	0	0	90	78	0
7	AXIOM	68	WG	0.72	LB A/A	17	OZ/A	EPP30	A						
7	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-1	F						
7	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-1	F						
7	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-1	F						
8	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	EPP30	A	117	0	0	83	35	0
8	DEFINE	60	WG	0.60	LB A/A	16	OZ/A	EPP30	A						
8	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-1	F						
8	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-1	F						
8	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-1	F						
9	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	EPP30	A	166	0	0	95	85	27
9	BASIS	75	WG	0.031	LB A/A	0.66	OZ/A	EPP30	A						
9	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-1	F						
9	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-1	F						
9	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-1	F						
10	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	EPP30	A	162	0	0	90	85	0
10	BALANCE	75	WG	0.094	LB A/A	2	OZ/A	EPP30	A						
10	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-1	F						
10	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-1	F						
10	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-1	F						
11	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	EPP30	A	131	0	0	83	80	0
11	PRINCEP	90	WG	1.0	LB A/A	17.8	OZ/A	EPP30	A						
11	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-1	F						
11	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-1	F						
11	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-1	F						
12	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	EPP15	B	149	0	0	97	85	0
12	DUAL II MAGNUM	7.64	EC	1.27	LB A/A	1.33	PT/A	EPP15	B						
12	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-2	G						
12	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-2	G						
12	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-2	G						
13	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	EPP15	B	166	0	0	100	85	0
13	TOPNOTCH	3.2	ME	1.8	LB A/A	4.5	PT/A	EPP15	B						
13	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-2	G						
13	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-2	G						
13	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-2	G						

Weed Code										SETFA	SETFA	SETFA
Crop Code												
Rating Data Type										ZEAMX	ZEAMX	ZEAMX
Rating Unit										Yield	Injury	Injury
Rating Date										bu/A	Percent	Percent
Trt-Eval Interval										10-1-01	6-2-01	6-23-01
										21 DAP	42 DAP	0 DAP
										5-12-01	6-2-01	6-23-01
										0 DAP	21 DAP	42 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
14	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	EPP15	B	155	0	0	100	87	0
14	HARNESS	7	EC	1.8	LB A/A	2.06	PT/A	EPP15	B						
14	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-2	G						
14	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-2	G						
14	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-2	G						
15	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	EPP15	B	184	0	0	100	90	27
15	DEGREE	3.8	ME	1.8	LB A/A	3.8	PT/A	EPP15	B						
15	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-2	G						
15	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-2	G						
15	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-2	G						
16	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	EPP15	B	139	0	0	97	63	27
16	OUTLOOK	6	EC	0.75	LB A/A	1	PT/A	EPP15	B						
16	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-2	G						
16	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-2	G						
16	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-2	G						
17	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	EPP15	B	182	0	0	100	88	52
17	AXIOM	68	WG	0.72	LB A/A	17	OZ/A	EPP15	B						
17	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-2	G						
17	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-2	G						
17	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-2	G						
18	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	EPP15	B	171	0	0	100	83	27
18	DEFINE	60	WG	0.60	LB A/A	16	OZ/A	EPP15	B						
18	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-2	G						
18	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-2	G						
18	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-2	G						
19	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	EPP15	B	198	0	0	100	95	55
19	BASIS	75	WG	0.031	LB A/A	0.66	OZ/A	EPP15	B						
19	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-2	G						
19	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-2	G						
19	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-2	G						
20	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	EPP15	B	199	0	0	100	96	80
20	BALANCE	75	WG	0.094	LB A/A	2	OZ/A	EPP15	B						
20	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-2	G						
20	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-2	G						
20	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-2	G						
21	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	EPP15	B	153	0	0	93	78	0
21	PRINCEP	90	WG	1.0	LB A/A	17.8	OZ/A	EPP15	B						
21	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-2	G						
21	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-2	G						
21	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-2	G						
22	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	PRE	C	182	0	0	0	100	77
22	DUAL II MAGNUM	7.64	EC	1.27	LB A/A	1.33	PT/A	PRE	C						
22	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-3	H						
22	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-3	H						
22	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-3	H						
23	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	PRE	C	204	0	0	0	100	73
23	TOPNOTCH	3.2	ME	1.8	LB A/A	4.5	PT/A	PRE	C						
23	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-3	H						
23	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-3	H						
23	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-3	H						
24	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	PRE	C	193	0	0	0	100	63
24	HARNESS	7	EC	1.8	LB A/A	2.06	PT/A	PRE	C						
24	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-3	H						
24	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-3	H						
24	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-3	H						
25	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	PRE	C	196	0	0	0	100	80
25	DEGREE	3.8	ME	1.8	LB A/A	3.8	PT/A	PRE	C						
25	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-3	H						
25	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-3	H						
25	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-3	H						
26	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	PRE	C	192	0	0	0	100	85
26	OUTLOOK	6	EC	0.75	LB A/A	1	PT/A	PRE	C						
26	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-3	H						
26	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-3	H						
26	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-3	H						

Weed Code										SETFA	SETFA	SETFA
Crop Code												
Rating Data Type										ZEAMX	ZEAMX	ZEAMX
Rating Unit										Yield	Injury	Injury
Rating Date										Control	Control	Control
Trt-Eval Interval										bu/A	Percent	Percent
										10-1-01	6-2-01	6-23-01
										21 DAP	42 DAP	0 DAP
										5-12-01	6-2-01	6-23-01
										0 DAP	21 DAP	42 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
27	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	PRE	C	209	0	0	0	100	83
27	AXIOM	68	WG	0.72	LB A/A	17	OZ/A	PRE	C						
27	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-3	H						
27	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-3	H						
27	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-3	H						
28	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	PRE	C	191	0	0	0	100	91
28	DEFINE	60	WG	0.60	LB A/A	16	OZ/A	PRE	C						
28	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-3	H						
28	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-3	H						
28	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-3	H						
29	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	PRE	C	186	0	3	0	100	63
29	BASIS	75	WG	0.031	LB A/A	0.66	OZ/A	PRE	C						
29	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-3	H						
29	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-3	H						
29	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-3	H						
30	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	PRE	C	191	0	0	0	100	50
30	BALANCE	75	WG	0.094	LB A/A	2	OZ/A	PRE	C						
30	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-3	H						
30	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-3	H						
30	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-3	H						
31	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	PRE	C	187	0	0	0	100	45
31	PRINCEP	90	WG	1.0	LB A/A	17.8	OZ/A	PRE	C						
31	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-3	H						
31	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-3	H						
31	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-3	H						
32	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	PRE	C	204	0	3	0	0	85
32	DUAL II MAGNUM	7.64	EC	1.27	LB A/A	1.33	PT/A	3"CORN	D						
32	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-4	I						
32	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-4	I						
32	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-4	I						
33	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	PRE	C	199	0	3	0	0	87
33	TOPNOTCH	3.2	ME	1.8	LB A/A	4.5	PT/A	3"CORN	D						
33	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-4	I						
33	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-4	I						
33	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-4	I						
34	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	PRE	C	190	0	3	0	0	63
34	HARNES	7	EC	1.8	LB A/A	2.06	PT/A	3"CORN	D						
34	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-4	I						
34	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-4	I						
34	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-4	I						
35	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	PRE	C	206	0	3	0	0	85
35	DEGREE	3.8	ME	1.8	LB A/A	3.8	PT/A	3"CORN	D						
35	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-4	I						
35	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-4	I						
35	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-4	I						
36	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	PRE	C	186	0	8	0	0	82
36	OUTLOOK	6	EC	0.75	LB A/A	1	PT/A	3"CORN	D						
36	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-4	I						
36	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-4	I						
36	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-4	I						
37	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	PRE	C	201	0	7	0	0	98
37	DEFINE	60	WG	0.60	LB A/A	16	OZ/A	3"CORN	D						
37	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-4	I						
37	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-4	I						
37	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-4	I						
38	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	PRE	C	192	0	3	0	0	98
38	STEADFAST	75	WG	0.035	LB A/A	0.75	OZ/A	2"GRASS	E						
38	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-4	I						
38	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-4	I						
38	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-4	I						
39	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	PRE	C	188	0	3	0	0	87
39	PRINCEP	90	WG	1.0	LB A/A	17.8	OZ/A	3"CORN	D						
39	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-4	I						
39	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-4	I						
39	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-4	I						

Weed Code											SETFA	SETFA	SETFA
Crop Code													
Rating Data Type											ZEAMX	ZEAMX	ZEAMX
Rating Unit											Yield	Injury	Injury
Rating Date											Control	Control	Control
Trt-Eval Interval											bu/A	Percent	Percent
											10-1-01	6-2-01	6-23-01
											5-12-01	6-2-01	6-23-01
											0 DAP	21 DAP	42 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
40	ROUNDUP ULTRA	3	SL	0.75	LB AE/A	2	PT/A	PRE	C	204	0	0	0	0	89
40	BASIS	75	WG	0.016	LB A/A	0.34	OZ/A	2"GRASS	E						
40	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3"BL-4	I						
40	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3"BL-4	I						
40	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3"BL-4	I						
LSD (P=.05)										32.5	0.0	5.3	7.2	16.0	33.2
Replicate F										5.692	0.000	5.932	4.369	4.392	3.768
Replicate Prob(F)										0.0049	1.0000	0.0040	0.0159	0.0156	0.0274
Treatment F										17.609	0.000	1.127	346.249	55.838	10.381
Treatment Prob(F)										0.0001	1.0000	0.3214	0.0001	0.0001	0.0001

Evaluation of Grass Control in No-Till Corn.

Project Code: 01-2B-W205      Location: Belleville Research Center

Trial Comments

1. Protocol: SIU/RFK.
2. DAP = days after planting.