

Corn, Tilled Weed Control Studies

1-25-08 (07-12)

Southern Illinois University

Corn Hybrid Tolerance to Nicosulfuron Formulations.

Project Code: 07-12 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: 1-23-08

Objective:

Determine the response of corn hybrids to CHA 7950, an experimental formulation of nicosulfuron.

Crop 1: ZEAMX corn, field Variety: See treatment list
Planting Method: Seeded Planting Date: 6-2-07
Rate: 28000 S/A Depth: 1.5 IN
Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 30 FT Reps: 4
Tillage Type: Reduced-Till Study Design: Randomized complete block
Previous Crop, Year: GLXMA, 2006
Field Prep./Maintenance: N 150 LB/A, P2O5 0 LB/A, K2O 100 LB/A

Soil Name: Ebberth % OM: 2.3 pH: 6.9 CEC: 13
Texture: Silt loam Fert. Level: P1: 110 LB/A, K: 318 LB/A

APPLICATION DESCRIPTION

A
Application Date: 6-18-07
Time of Day: 8:00
Application Method: Spray
Application Timing: V3-4
Applic. Placement: BROFOL
Air Temp., Unit: 74 F
% Relative Humidity: 92
Wind Velocity, Unit: 0-1 MPH
Dew Presence (Y/N): N
Soil Moisture: NORMAL
% Cloud Cover: 100

CROP STAGE AT EACH APPLICATION

A
Crop 1 Code, Stage: ZEAMX V3-V4
Height, Unit: 10-12 IN

APPLICATION EQUIPMENT

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

NOTES:

Corn Hybrid Tolerance to Nicosulfuron Formulations.

Project Code: 07-12 Location: Belleville Research Center
Investigator: Bryan Young

Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

ZEAMX Moisture Percent 10-9-07	ZEAMX Yield bu/A 10-9-07	ZEAMX Chloro Percent 6-25-07 7 DA-A	ZEAMX Chloro Percent 7-2-07 14 DA-A	ZEAMX Chloro Percent 7-16-07 28 DA-A	ZEAMX Necrosis Percent 6-25-07 7 DA-A	ZEAMX Necrosis Percent 7-2-07 14 DA-A	ZEAMX Necrosis Percent 7-16-07 28 DA-A
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Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
1	P33K44									16.1	ef	203	a	0	a	0	a
1	CHA 7950	2	OD	0.0313	lb ai/a	2	fl oz/a	V3-4	A								
1	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A								
1	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A								
2	P33K44									16.0	efg	194	a-e	0	a	0	a
2	CHA 7950	2	OD	0.0625	lb ai/a	4	fl oz/a	V3-4	A								
2	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A								
2	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A								
3	P33K44									16.3	ef	198	ab	0	a	0	a
3	ACCENT	75	WG	0.0623	lb ai/a	1.33	oz/a	V3-4	A								
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A								
3	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A								
4	P33K44									16.5	e	196	a-d	0	a	0	a
4	NONTREATED																
5	P33T57									15.4	f-k	186	a-j	0	a	0	a
5	CHA 7950	2	OD	0.0313	lb ai/a	2	fl oz/a	V3-4	A								
5	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A								
5	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A								
6	P33T57									15.7	e-i	179	d-m	0	a	0	a
6	CHA 7950	2	OD	0.0625	lb ai/a	4	fl oz/a	V3-4	A								
6	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A								
6	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A								
7	P33T57									14.7	h-m	185	b-j	0	a	0	a
7	ACCENT	75	WG	0.0623	lb ai/a	1.33	oz/a	V3-4	A								
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A								
7	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A								
8	P33T57									15.7	e-i	188	a-h	0	a	0	a
8	NONTREATED																
9	DK 6173									14.7	i-m	193	a-e	0	a	0	a
9	CHA 7950	2	OD	0.0313	lb ai/a	2	fl oz/a	V3-4	A								
9	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A								
9	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A								
10	DK 6173									14.7	j-m	183	b-l	0	a	0	a
10	CHA 7950	2	OD	0.0625	lb ai/a	4	fl oz/a	V3-4	A								
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A								
10	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A								
11	DK 6173									14.2	lm	189	a-g	0	a	0	a
11	ACCENT	75	WG	0.0623	lb ai/a	1.33	oz/a	V3-4	A								
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A								
11	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A								
12	DK 6173									14.2	lm	192	a-e	0	a	0	a
12	NONTREATED																
13	DK 6346									16.0	efg	191	a-e	0	a	0	a
13	CHA 7950	2	OD	0.0313	lb ai/a	2	fl oz/a	V3-4	A								
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A								
13	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A								
14	DK 6346									15.5	e-k	187	a-i	0	a	0	a
14	CHA 7950	2	OD	0.0625	lb ai/a	4	fl oz/a	V3-4	A								
14	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A								
14	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A								
15	DK 6346									15.0	g-l	196	abc	0	a	0	a
15	ACCENT	75	WG	0.0623	lb ai/a	1.33	oz/a	V3-4	A								
15	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A								
15	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A								
16	DK 6346									14.3	lm	178	e-n	0	a	0	a
16	NONTREATED																

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ZEAMX Moisture Percent 10-9-07	ZEAMX Yield bu/A 10-9-07	ZEAMX Chloro Percent 6-25-07 7 DA-A	ZEAMX Chloro Percent 7-2-07 14 DA-A	ZEAMX Chloro Percent 7-16-07 28 DA-A	ZEAMX Necrosis Percent 6-25-07 7 DA-A	ZEAMX Necrosis Percent 7-2-07 14 DA-A	ZEAMX Necrosis Percent 7-16-07 28 DA-A
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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code							
17	Croplan 818									18.3	cd	166	lmn	0	a	0
17	CHA 7950	2	OD	0.0313	lb ai/a	2	fl oz/a	V3-4	A							
17	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A							
17	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A							
18	Croplan 818									19.8	a	171	h-n	0	a	0
18	CHA 7950	2	OD	0.0625	lb ai/a	4	fl oz/a	V3-4	A							
18	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A							
18	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A							
19	Croplan 818									18.0	cd	165	mn	0	a	0
19	ACCENT	75	WG	0.0623	lb ai/a	1.33	oz/a	V3-4	A							
19	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A							
19	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A							
20	Croplan 818									18.9	abc	161	n	0	a	0
20	NONTREATED															
21	Croplan 6818									19.4	ab	185	b-j	0	a	0
21	CHA 7950	2	OD	0.0313	lb ai/a	2	fl oz/a	V3-4	A							
21	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A							
21	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A							
22	Croplan 6818									18.5	bcd	184	b-k	0	a	0
22	CHA 7950	2	OD	0.0625	lb ai/a	4	fl oz/a	V3-4	A							
22	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A							
22	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A							
23	Croplan 6818									17.7	d	191	a-f	0	a	0
23	ACCENT	75	WG	0.0623	lb ai/a	1.33	oz/a	V3-4	A							
23	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A							
23	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A							
24	Croplan 6818									18.2	cd	178	e-n	0	a	0
24	NONTREATED															
25	NK N76M5									15.4	f-k	172	g-n	0	a	0
25	CHA 7950	2	OD	0.0313	lb ai/a	2	fl oz/a	V3-4	A							
25	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A							
25	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A							
26	NK N76M5									15.4	f-k	167	k-n	0	a	0
26	CHA 7950	2	OD	0.0625	lb ai/a	4	fl oz/a	V3-4	A							
26	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A							
26	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A							
27	NK N76M5									15.6	e-j	170	i-n	0	a	0
27	ACCENT	75	WG	0.0623	lb ai/a	1.33	oz/a	V3-4	A							
27	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A							
27	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A							
28	NK N76M5									15.7	e-h	163	mn	0	a	0
28	NONTREATED															
29	FS 6299									14.6	klm	172	g-n	0	a	0
29	CHA 7950	2	OD	0.0313	lb ai/a	2	fl oz/a	V3-4	A							
29	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A							
29	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A							
30	FS 6299									14.7	j-m	169	j-n	0	a	0
30	CHA 7950	2	OD	0.0625	lb ai/a	4	fl oz/a	V3-4	A							
30	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A							
30	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A							
31	FS 6299									14.1	lm	171	h-n	0	a	0
31	ACCENT	75	WG	0.0623	lb ai/a	1.33	oz/a	V3-4	A							
31	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A							
31	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A							
32	FS 6299									14.7	i-m	161	n	0	a	0
32	NONTREATED															

1-25-08 (07-12)

Southern Illinois University

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Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Moisture	Yield	Chloro	Chloro	Chloro	Necrosis	Necrosis	Necrosis
Percent	bu/A	Percent	Percent	Percent	Percent	Percent	Percent
10-9-07	10-9-07	6-25-07	7-2-07	7-16-07	6-25-07	7-2-07	7-16-07
		7 DA-A	14 DA-A	28 DA-A	7 DA-A	14 DA-A	28 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
33	FS 61AV3									14.1	lm	165	mn	0	a	0	a
33	CHA 7950	2	OD	0.0313	lb ai/a	2	fl oz/a	V3-4	A								
33	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A								
33	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A								
34	FS 61AV3									14.6	klm	172	g-n	0	a	0	a
34	CHA 7950	2	OD	0.0625	lb ai/a	4	fl oz/a	V3-4	A								
34	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A								
34	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A								
35	FS 61AV3									13.9	m	164	mn	0	a	0	a
35	ACCENT	75	WG	0.0623	lb ai/a	1.33	oz/a	V3-4	A								
35	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A								
35	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A								
36	FS 61AV3									14.1	lm	171	i-n	0	a	0	a
36	NONTREATED																
37	Asgrow 785									14.8	h-m	193	a-e	0	a	0	a
37	CHA 7950	2	OD	0.0313	lb ai/a	2	fl oz/a	V3-4	A								
37	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A								
37	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A								
38	Asgrow 785									15.0	g-l	179	c-m	0	a	0	a
38	CHA 7950	2	OD	0.0625	lb ai/a	4	fl oz/a	V3-4	A								
38	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A								
38	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A								
39	Asgrow 785									14.8	h-m	185	b-j	0	a	0	a
39	ACCENT	75	WG	0.0623	lb ai/a	1.33	oz/a	V3-4	A								
39	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A								
39	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A								
40	Asgrow 785									14.6	klm	174	f-n	0	a	0	a
40	NONTREATED																
LSD (P=.05)										1.02		17.3		0.0		0.0	
Replicate F										11.470		21.260		0.000		0.000	
Replicate Prob(F)										0.0001		0.0001		1.0000		1.0000	
Treatment F										19.932		3.610		0.000		0.000	
Treatment Prob(F)										0.0001		0.0001		1.0000		1.0000	

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

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Rating Unit

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Trt-Eval Interval

ZEAMX	ZEAMX	ZEAMX
Malform	Malform	Malform
Percent	Percent	Percent
6-25-07	7-2-07	7-16-07
7 DA-A	14 DA-A	28 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code			
1	P33K44									0 a	0 a	0 a
1	CHA 7950	2	OD	0.0313	lb ai/a	2	fl oz/a	V3-4	A			
1	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
1	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
2	P33K44									0 a	0 a	0 a
2	CHA 7950	2	OD	0.0625	lb ai/a	4	fl oz/a	V3-4	A			
2	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
2	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
3	P33K44									0 a	0 a	0 a
3	ACCENT	75	WG	0.0623	lb ai/a	1.33	oz/a	V3-4	A			
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
3	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
4	P33K44									0 a	0 a	0 a
4	NONTREATED											
5	P33T57									0 a	0 a	0 a
5	CHA 7950	2	OD	0.0313	lb ai/a	2	fl oz/a	V3-4	A			
5	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
5	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
6	P33T57									0 a	0 a	0 a
6	CHA 7950	2	OD	0.0625	lb ai/a	4	fl oz/a	V3-4	A			
6	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
6	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
7	P33T57									0 a	0 a	0 a
7	ACCENT	75	WG	0.0623	lb ai/a	1.33	oz/a	V3-4	A			
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
7	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
8	P33T57									0 a	0 a	0 a
8	NONTREATED											
9	DK 6173									0 a	0 a	0 a
9	CHA 7950	2	OD	0.0313	lb ai/a	2	fl oz/a	V3-4	A			
9	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
9	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
10	DK 6173									0 a	0 a	0 a
10	CHA 7950	2	OD	0.0625	lb ai/a	4	fl oz/a	V3-4	A			
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
10	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
11	DK 6173									0 a	0 a	0 a
11	ACCENT	75	WG	0.0623	lb ai/a	1.33	oz/a	V3-4	A			
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
11	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
12	DK 6173									0 a	0 a	0 a
12	NONTREATED											
13	DK 6346									0 a	0 a	0 a
13	CHA 7950	2	OD	0.0313	lb ai/a	2	fl oz/a	V3-4	A			
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
13	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
14	DK 6346									0 a	0 a	0 a
14	CHA 7950	2	OD	0.0625	lb ai/a	4	fl oz/a	V3-4	A			
14	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
14	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
15	DK 6346									0 a	0 a	0 a
15	ACCENT	75	WG	0.0623	lb ai/a	1.33	oz/a	V3-4	A			
15	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
15	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
16	DK 6346									0 a	0 a	0 a
16	NONTREATED											

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Investigator: Bryan Young

Weed Code			
Crop Code			
Rating Data Type	ZEAMX	ZEAMX	ZEAMX
Rating Unit	Malform	Malform	Malform
Rating Date	Percent	Percent	Percent
Trt-Eval Interval	6-25-07	7-2-07	7-16-07
	7 DA-A	14 DA-A	28 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code			
17	Croplan 818									0 a	0 a	0 a
17	CHA 7950	2	OD	0.0313	lb ai/a	2	fl oz/a	V3-4	A			
17	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
17	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
18	Croplan 818									0 a	0 a	0 a
18	CHA 7950	2	OD	0.0625	lb ai/a	4	fl oz/a	V3-4	A			
18	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
18	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
19	Croplan 818									0 a	0 a	0 a
19	ACCENT	75	WG	0.0623	lb ai/a	1.33	oz/a	V3-4	A			
19	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
19	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
20	Croplan 818									0 a	0 a	0 a
20	NONTREATED											
21	Croplan 6818									0 a	0 a	0 a
21	CHA 7950	2	OD	0.0313	lb ai/a	2	fl oz/a	V3-4	A			
21	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
21	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
22	Croplan 6818									0 a	0 a	0 a
22	CHA 7950	2	OD	0.0625	lb ai/a	4	fl oz/a	V3-4	A			
22	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
22	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
23	Croplan 6818									0 a	0 a	0 a
23	ACCENT	75	WG	0.0623	lb ai/a	1.33	oz/a	V3-4	A			
23	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
23	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
24	Croplan 6818									0 a	0 a	0 a
24	NONTREATED											
25	NK N76M5									0 a	0 a	0 a
25	CHA 7950	2	OD	0.0313	lb ai/a	2	fl oz/a	V3-4	A			
25	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
25	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
26	NK N76M5									0 a	0 a	0 a
26	CHA 7950	2	OD	0.0625	lb ai/a	4	fl oz/a	V3-4	A			
26	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
26	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
27	NK N76M5									0 a	0 a	0 a
27	ACCENT	75	WG	0.0623	lb ai/a	1.33	oz/a	V3-4	A			
27	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
27	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
28	NK N76M5									0 a	0 a	0 a
28	NONTREATED											
29	FS 6299									0 a	0 a	0 a
29	CHA 7950	2	OD	0.0313	lb ai/a	2	fl oz/a	V3-4	A			
29	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
29	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
30	FS 6299									0 a	0 a	0 a
30	CHA 7950	2	OD	0.0625	lb ai/a	4	fl oz/a	V3-4	A			
30	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
30	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
31	FS 6299									0 a	0 a	0 a
31	ACCENT	75	WG	0.0623	lb ai/a	1.33	oz/a	V3-4	A			
31	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
31	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
32	FS 6299									0 a	0 a	0 a
32	NONTREATED											

Corn Hybrid Tolerance to Nicosulfuron Formulations.

Project Code: 07-12 Location: Belleville Research Center
Investigator: Bryan Young

Weed Code	ZEAMX	ZEAMX	ZEAMX
Crop Code	Malform	Malform	Malform
Rating Data Type	Percent	Percent	Percent
Rating Unit	6-25-07	7-2-07	7-16-07
Rating Date	7 DA-A	14 DA-A	28 DA-A
Trt-Eval Interval			

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code			
33	FS 61AV3									0 a	0 a	0 a
33	CHA 7950	2	OD	0.0313	lb ai/a	2	fl oz/a	V3-4	A			
33	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
33	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
34	FS 61AV3									0 a	0 a	0 a
34	CHA 7950	2	OD	0.0625	lb ai/a	4	fl oz/a	V3-4	A			
34	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
34	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
35	FS 61AV3									0 a	0 a	0 a
35	ACCENT	75	WG	0.0623	lb ai/a	1.33	oz/a	V3-4	A			
35	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
35	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
36	FS 61AV3									0 a	0 a	0 a
36	NONTREATED											
37	Asgrow 785									0 a	0 a	0 a
37	CHA 7950	2	OD	0.0313	lb ai/a	2	fl oz/a	V3-4	A			
37	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
37	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
38	Asgrow 785									0 a	0 a	0 a
38	CHA 7950	2	OD	0.0625	lb ai/a	4	fl oz/a	V3-4	A			
38	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
38	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
39	Asgrow 785									0 a	0 a	0 a
39	ACCENT	75	WG	0.0623	lb ai/a	1.33	oz/a	V3-4	A			
39	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V3-4	A			
39	28% UAN	100	LIQ	3.0	% v/v	3	% v/v	V3-4	A			
40	Asgrow 785									0 a	0 a	0 a
40	NONTREATED											
LSD (P=.05)										0.0	0.0	0.0
Replicate F										0.000	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	1.0000
Treatment F										0.000	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	1.0000

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

Trial Comments

1. Protocol: Cheminova.
2. Ratings: Chlorosis, necrosis, leaf malformation, ear malformation or other crop responses at 7, 14, + 28 DAT.
3. Yield.
4. Blanket PRE application of Lumax (3 qt/A) + Aatrex (1 qt/A) to all plots 10 ft wide, applied 6-2-07.
Following the PRE application only 0.08 inches of rainfall was recorded during the next 22 days.
5. DA-A = Days after V3-4 application. Chloro = Chlorosis. Malform = Malformation.
6. Harvested 10-9-07, (2) 30 inch rows by 27 ft.