

Capreno Application Timing - Site 2.

Trial ID: 09-2B-W100

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: 06-29-09

Objectives: 1. Determine the influence of application timing and atrazine tank-mix on crop response, control of emerged weed species, and residual weed control later in the season. 2. Compare efficacy to Halex GT. 3. Evaluate reduced rates of glyphosate with Capreno.

Crop 1: ZEAMD Dent corn Variety: P33K44 Description: RR/LL
 Planting Method: SEEDS Planting Date: 06-29-09
 Rate, Unit: 28000 S/A Depth, Unit: 1.5 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: AMBTR Ambrosia trifida L. ragweed, giant
 Pest 2 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
 Pest 3 Type: W Code: ABUTH Abutilon theophrasti Medicus velvetleaf
 Pest 4 Type: W Code: SETFA Setaria faberi Herrm. foxtail, giant
 Pest 5 Type: W Code: IPOSS morningglory, species

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 28 FT Tillage Type: REDUCED-TILL
 Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year
 1. GLXMA 2008

Field Prep./Maintenance: N 150 LB/A, P205 0 LB/A, K20 100 LB/A

% OM: 1.6 Texture: SILT LOAM
 pH: 6.1 Soil Name: PIERRON
 CEC: 8 Fert. Level: P1: 91 LB/A, K: 410 LB/A

	Application Description		
	A	B	C
Application Date:	07-13-09	07-18-09	07-24-09
Time of Day:	14:00	19:45	14:00
Application Method:	Spray	Spray	Spray
Application Timing:	V2	V4	V6
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	DKT	NVH	DKT
Air Temperature, Unit:	84 F	70 F	86 F
% Relative Humidity:	78	92	72
Wind Velocity, Unit:	4 MPH	4 MPH	4 MPH
Wind Direction:	SE	W	SW
Dew Presence (Y/N):	N	N	N
Soil Moisture:	ABONOR	NORMAL	NORMAL
% Cloud Cover:	40	75	45
Crop stage at application:	V2	V4	V6
Height Min, Max (inch):	3 5	5 10	8 12

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	Pest Stage At Each Application					
Application Date:	07-13-09	07-18-09	07-24-09			
Weed Code:	AMBTR	AMBTR	AMBTR			
Stage Majority (leaves):	COTY	4	4			
Stage Min, Max:	COTY 2	3	6	2	6	
Height Majority:	1	IN	5	IN	8	IN
Height Min, Max:	1	2	4	7	6	10
Density, Unit:	1	FT2 1	FT2 2	FT2		
Weed Code:	AMATA	AMATA	AMATA			
Stage Majority (leaves):	COTY	4	8			
Stage Min, Max:	COTY 1	2	6	2	16	
Height Majority:	1	IN	2	IN	6	IN
Height Min, Max:	1	2	1	3	3	8
Density, Unit:	1	FT2 1	FT2 1	FT2		
Weed Code:	ABUTH	ABUTH	ABUTH			
Stage Majority (leaves):	COTY	1	3			
Stage Min, Max:	COTY 2	COTY 3	2	4		
Height Majority:	1	IN	1.5	IN	8	IN
Height Min, Max:	1	2	1	2.5	8	10
Density, Unit:	1	FT2 0.75	FT2 1	FT2		
Weed Code:	SETFA	SETFA	SETFA			
Stage Majority (leaves):	1	2	3			
Stage Min, Max:	1	2	1	4	2	5
Height Majority:	2	IN	3	IN	8	IN
Height Min, Max:	1	2	1	5	4	12
Density, Unit:	1	FT2 2	FT2 1	FT2		
Weed Code:	IPOSS	IPOSS	IPOSS			
Stage Majority (leaves):	COTY	3	4			
Stage Min, Max:	COTY 2	COTY 7	3	6		
Height Majority:	1	IN	3.5	IN	6	IN
Height Min, Max:	1	2	1	5	2	8
Density, Unit:	1	FT2 1	FT2 2	FT2		

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

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

ZEAMD ZEAMD ZEAMD ZEAMD ZEAMD ZEAMD
01-17-10 01-17-10
Moisture Yield Injury Injury Injury Injury
Percent bu/A Percent Percent Percent Percent
7 DAT 14 DAT 28 DAT 56 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code												
1	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	21.8	cd	125	ab	5	a	0	a	0	a		
1	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V2	A												
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A												
2	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	23.3	abc	114	abc	5	a	0	a	0	a		
2	AATREX NINE-O	90	WG	0.5	lb ai/a	0.556	lb/a	V2	A												
2	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V2	A												
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A												
3	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	24.8	ab	114	ab	5	a	0	a	0	a		
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2	A												
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A												
4	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	22.9	a-d	103	bcd	5	a	0	a	0	a		
4	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	V2	A												
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A												
5	CORVUS	2.62	SC	0.092	lb ai/a	4.5	fl oz/a	V2	A	25.3	a	91	cd	5	a	0	a	0	a		
5	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V2	A												
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A												
6	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	V2	A	22.5	bcd	109	a-d	5	a	0	a	0	a		
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V2	A												
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A												
7	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V2	A	22.4	bcd	115	ab	0	b	0	a	0	a		
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V2	A												
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A												
8	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4	B	21.5	cd	105	a-d	5	a	0	a	0	a		
8	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V4	B												
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B												
9	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4	B	21.6	cd	106	a-d	5	a	0	a	0	a		
9	AATREX NINE-O	90	WG	0.5	lb ai/a	0.556	lb/a	V4	B												
9	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V4	B												
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B												
10	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4	B	21.0	cd	115	ab	5	a	0	a	0	a		
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V4	B												
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B												
11	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4	B	21.7	cd	127	a	5	a	0	a	0	a		
11	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	V4	B												
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B												
12	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V4	B	22.3	bcd	123	ab	0	b	0	a	0	a		
12	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V4	B												
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B												
13	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V6	C	21.5	cd	91	d	5	a	0	a	0	a		
13	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V6	C												
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V6	C												
14	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V6	C	21.5	cd	107	a-d	5	a	0	a	0	a		
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V6	C												
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V6	C												
15	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V6	C	21.3	cd	112	a-d	5	a	0	a	0	a		
15	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	V6	C												
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V6	C												
16	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V6	C	21.2	cd	116	ab	0	b	0	a	0	a		
16	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V6	C												
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V6	C												
17	NONTREATED									20.5	d	44	e	0	b	0	a	0	a		

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

ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD
01-17-10	01-17-10				
Moisture	Yield	Injury	Injury	Injury	Injury
Percent	bu/A	Percent	Percent	Percent	Percent
		7 DAT	14 DAT	28 DAT	56 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
18	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	22.0	cd	109	a-d	5	a
18	ROUNDUP P-MAX	4.5	SL	0.28	lb ae/a	8	fl oz/a	V2	A					0	a
18	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	V2	A					0	a
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A					0	a
19	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4	B	21.3	cd	112	a-d	5	a
19	ROUNDUP P-MAX	4.5	SL	0.28	lb ae/a	8	fl oz/a	V4	B					0	a
19	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	V4	B					0	a
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B					0	a
20	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V6	C	20.8	cd	108	a-d	5	a
20	ROUNDUP P-MAX	4.5	SL	0.28	lb ae/a	8	fl oz/a	V6	C					0	a
20	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	V6	C					0	a
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V6	C					0	a
LSD (P=.05)										2.69		22.8		0.0	0.0
Replicate F										2.384		2.402		0.000	0.000
Replicate Prob(F)										0.1059		0.1041		1.0000	1.0000
Treatment F										1.744		4.867		0.000	0.000
Treatment Prob(F)										0.0713		0.0001		1.0000	1.0000

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

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Pest Code										AMBTR	AMBTR	AMBTR	AMBTR	AMATA	AMATA	AMATA	AMATA								
Crop Code										Control Percent 14 DAT	Control Percent 28 DAT	Control Percent 56 DAT	09-18-09	Control	Control	Control	09-18-09								
Rating Date													Plants	Percent	Percent	Percent	Plants								
Rating Data Type													0.5 m2	14 DAT	28 DAT	56 DAT	0.5 m2								
Rating Unit																									
Rating Timing																									
Trt-Eval Interval																									
													56 DA-C				56 DA-C								
Trt	Treatment	Form	Form	Rate	Rate	Other	Other	Growth	Appl																
No.	Name	Conc	Type	Unit	Unit	Rate	Rate	Stage	Code																
1	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	84	g	82	d	82	fg	1.0	c-g	99	a	99	a	99	a	0.0	c
1	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V2	A																
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A																
2	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	96	ab	93	b	93	abc	0.5	fgh	99	a	99	a	99	a	0.0	c
2	AATREX NINE-O	90	WG	0.5	lb ai/a	0.556	lb/a	V2	A																
2	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V2	A																
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A																
3	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	89	ef	88	bc	82	fg	1.5	bcd	99	a	99	a	97	a	0.2	bc
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2	A																
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A																
4	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	95	a-d	92	bc	85	ef	1.0	c-g	97	abc	95	c	93	b	0.5	b
4	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	V2	A																
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A																
5	CORVUS	2.62	SC	0.092	lb ai/a	4.5	fl oz/a	V2	A	95	a-d	93	b	93	abc	0.3	gh	98	ab	98	abc	98	a	0.0	c
5	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V2	A																
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A																
6	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	V2	A	95	abc	93	b	93	bc	0.7	e-h	98	ab	96	abc	96	ab	0.3	bc
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V2	A																
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A																
7	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V2	A	91	def	90	bc	90	cde	0.5	fgh	98	ab	98	abc	98	a	0.2	bc
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V2	A																
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A																
8	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4	B	94	bcd	93	b	92	bc	0.3	gh	99	a	99	ab	99	a	0.2	bc
8	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V4	B																
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B																
9	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4	B	95	a-d	93	b	93	bc	0.5	fgh	99	a	99	a	99	a	0.0	c
9	AATREX NINE-O	90	WG	0.5	lb ai/a	0.556	lb/a	V4	B																
9	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V4	B																
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B																
10	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4	B	94	bcd	91	bc	87	def	1.7	bc	99	a	98	ab	96	ab	0.2	bc
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V4	B																
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B																
11	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4	B	83	g	82	d	77	g	2.2	b	95	bc	95	c	93	b	0.3	bc
11	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	V4	B																
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B																
12	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V4	B	93	b-e	90	bc	90	cde	0.8	d-g	99	a	99	a	99	a	0.0	c
12	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V4	B																
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B																
13	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V6	C	96	ab	93	b	93	abc	0.5	fgh	96	abc	96	bc	96	ab	0.2	bc
13	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V6	C																
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V6	C																
14	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V6	C	99	a	99	a	92	bc	0.5	fgh	99	a	99	a	97	a	0.2	bc
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V6	C																
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V6	C																
15	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V6	C	94	bcd	92	bc	87	def	1.2	c-f	95	c	95	c	93	b	0.2	bc
15	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	V6	C																
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V6	C																
16	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V6	C	99	a	99	a	98	a	0.0	h	99	a	99	a	99	a	0.0	c
16	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V6	C																
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V6	C																
17	NONTREATED									0	h	0	e	0	h	5.8	a	0	d	0	d	0	c	1.0	a

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Pest Code	AMBTR	AMBTR	AMBTR	AMBTR	AMATA	AMATA	AMATA	AMATA
Crop Code								
Rating Date				09-18-09				09-18-09
Rating Data Type	Control	Control	Control	Plants	Control	Control	Control	Plants
Rating Unit	Percent	Percent	Percent	0.5 m2	Percent	Percent	Percent	0.5 m2
Rating Timing	14 DAT	28 DAT	56 DAT		14 DAT	28 DAT	56 DAT	
Trt-Eval Interval				56 DA-C				56 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code								
18	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	87 fg	87 cd	87 def	1.3 cde	99 a	99 a	98 a	0.2 bc
18	ROUNDUP P-MAX	4.5	SL	0.28	lb ae/a	8	fl oz/a	V2	A								
18	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	V2	A								
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A								
19	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4	B	91 c-f	91 bc	91 bcd	0.8 d-g	99 a	99 a	98 a	0.0 c
19	ROUNDUP P-MAX	4.5	SL	0.28	lb ae/a	8	fl oz/a	V4	B								
19	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	V4	B								
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B								
20	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V6	C	99 a	99 a	96 ab	0.3 gh	99 a	99 a	99 a	0.0 c
20	ROUNDUP P-MAX	4.5	SL	0.28	lb ae/a	8	fl oz/a	V6	C								
20	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	V6	C								
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V6	C								

LSD (P=.05)	4.6	5.0	5.1	0.74	2.9	3.1	3.9	0.42
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Replicate F	0.344	0.269	0.034	1.948	0.147	0.495	1.057	1.334
Replicate Prob(F)	0.7114	0.7659	0.9668	0.1565	0.8635	0.6137	0.3574	0.2754
Treatment F	178.904	144.007	136.949	23.174	457.170	415.806	259.720	2.605
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0059

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

Capreno Application Timing - Site 2.

Trial ID: 09-2B-W100

Location: Belleville Res. Center

								ABUTH	ABUTH	ABUTH	ABUTH	SETFA	SETFA	SETFA	SETFA
Pest Code								09-18-09				09-18-09			
Crop Code								Control	Control	Control	Plants	Control	Control	Control	Plants
Rating Date								Percent	Percent	Percent	0.5 m2	Percent	Percent	Percent	0.5 m2
Rating Data Type								14 DAT	28 DAT	56 DAT	56 DA-C	14 DAT	28 DAT	56 DAT	56 DA-C
Rating Unit															
Rating Timing															
Trt-Eval Interval															
Trt	Treatment	Form	Form	Rate	Rate	Other	Other	Growth	Appl						
No.	Name	Conc	Type	Unit	Unit	Rate	Rate	Stage	Code						
1	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	96	ab	96	ab	96	ab
1	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V2	A						
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A						
2	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	94	b	94	b	94	b
2	AATREX NINE-O	90	WG	0.5	lb ai/a	0.556	lb/a	V2	A						
2	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V2	A						
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A						
3	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	96	ab	96	ab	96	ab
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2	A						
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A						
4	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	99	a	99	a	99	a
4	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	V2	A						
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A						
5	CORVUS	2.62	SC	0.092	lb ai/a	4.5	fl oz/a	V2	A	99	a	99	a	99	a
5	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V2	A						
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A						
6	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	V2	A	99	a	99	a	99	a
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V2	A						
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A						
7	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V2	A	99	a	99	a	99	a
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V2	A						
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A						
8	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4	B	99	a	99	a	99	a
8	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V4	B						
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B						
9	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4	B	99	a	99	a	99	a
9	AATREX NINE-O	90	WG	0.5	lb ai/a	0.556	lb/a	V4	B						
9	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V4	B						
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B						
10	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4	B	99	a	99	a	99	a
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V4	B						
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B						
11	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4	B	99	a	99	a	99	a
11	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	V4	B						
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B						
12	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V4	B	99	a	99	a	99	a
12	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V4	B						
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B						
13	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V6	C	99	a	99	a	99	a
13	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V6	C						
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V6	C						
14	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V6	C	99	a	99	a	99	a
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V6	C						
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V6	C						
15	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V6	C	99	a	99	a	99	a
15	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	V6	C						
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V6	C						
16	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V6	C	99	a	99	a	99	a
16	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V6	C						
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V6	C						
17	NONTREATED									0	c	0	c	0	c

Capreno Application Timing - Site 2.

Trial ID: 09-2B-W100

Location: Belleville Res. Center

Pest Code	ABUTH	ABUTH	ABUTH	ABUTH	SETFA	SETFA	SETFA	SETFA
Crop Code								
Rating Date				09-18-09				09-18-09
Rating Data Type	Control	Control	Control	Plants	Control	Control	Control	Plants
Rating Unit	Percent	Percent	Percent	0.5 m2	Percent	Percent	Percent	0.5 m2
Rating Timing	14 DAT	28 DAT	56 DAT		14 DAT	28 DAT	56 DAT	
Trt-Eval Interval				56 DA-C				56 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
18	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	99 a	99 a	99 a	0.0 b	99 a	99 a	98 a 0.0 c
18	ROUNDUP P-MAX	4.5	SL	0.28	lb ae/a	8	fl oz/a	V2	A							
18	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	V2	A							
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A							
19	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4	B	99 a	99 a	99 a	0.0 b	99 a	99 a	99 a 0.0 c
19	ROUNDUP P-MAX	4.5	SL	0.28	lb ae/a	8	fl oz/a	V4	B							
19	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	V4	B							
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B							
20	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V6	C	99 a	99 a	99 a	0.0 b	99 a	99 a	99 a 0.0 c
20	ROUNDUP P-MAX	4.5	SL	0.28	lb ae/a	8	fl oz/a	V6	C							
20	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	V6	C							
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V6	C							
LSD (P=.05)										3.8	3.8	3.8	0.23	5.0	10.7	10.8 1.47
Replicate F										3.049	3.049	3.049	2.839	0.790	0.216	0.356 0.417
Replicate Prob(F)										0.0591	0.0591	0.0591	0.0709	0.4611	0.8067	0.7028 0.6621
Treatment F										268.702	268.702	268.702	3.862	172.234	35.896	35.092 5.497
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001 0.0001

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

Capreno Application Timing - Site 2.

Trial ID: 09-2B-W100

Location: Belleville Res. Center

								IPOSS	IPOSS	IPOSS	IPOSS
Pest Code								09-18-09			
Crop Code								Control	Control	Control	Plants
Rating Date								Percent	Percent	Percent	0.5 m2
Rating Data Type								14 DAT	28 DAT	56 DAT	
Rating Unit								56 DA-C			
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	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	91 ab	87 a
1	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V2	A	85 b-e	0.8 g
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A		
2	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	92 ab	87 a
2	AATREX NINE-O	90	WG	0.5	lb ai/a	0.556	lb/a	V2	A	87 a-d	1.2 efg
2	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V2	A		
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A		
3	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	96 ab	90 a
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2	A	83 cde	2.5 cd
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A		
4	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	93 ab	88 a
4	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	V2	A	83 cde	1.5 efg
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A		
5	CORVUS	2.62	SC	0.092	lb ai/a	4.5	fl oz/a	V2	A	90 bc	87 a
5	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V2	A	87 a-d	1.8 def
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A		
6	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	V2	A	97 ab	93 a
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V2	A	92 a	1.0 fg
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A		
7	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V2	A	92 ab	78 b
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V2	A	75 fg	2.8 bc
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A		
8	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4	B	92 ab	90 a
8	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V4	B	88 abc	1.0 fg
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B		
9	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4	B	93 ab	88 a
9	AATREX NINE-O	90	WG	0.5	lb ai/a	0.556	lb/a	V4	B	87 a-d	1.3 efg
9	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V4	B		
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B		
10	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4	B	97 ab	93 a
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V4	B	85 b-e	2.0 cde
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B		
11	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4	B	95 ab	88 a
11	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	V4	B	82 de	1.8 def
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B		
12	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V4	B	83 c	73 b
12	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V4	B	73 g	3.7 ab
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B		
13	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V6	C	60 e	60 c
13	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V6	C	57 i	3.7 ab
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V6	C		
14	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V6	C	63 de	63 c
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V6	C	63 h	3.5 ab
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V6	C		
15	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V6	C	98 a	90 a
15	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	V6	C	80 ef	1.3 efg
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V6	C		
16	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V6	C	70 d	63 c
16	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V6	C	63 h	2.8 bc
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V6	C		
17	NONTREATED									0 g	0 e
										0 k	3.8 a

Capreno Application Timing - Site 2.

Trial ID: 09-2B-W100

Location: Belleville Res. Center

Pest Code	IPOSS	IPOSS	IPOSS	IPOSS
Crop Code				
Rating Date				09-18-09
Rating Data Type	Control	Control	Control	Plants
Rating Unit	Percent	Percent	Percent	0.5 m2
Rating Timing	14 DAT	28 DAT	56 DAT	
Trt-Eval Interval				56 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
18	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	94 ab	92 a	90 ab	0.7 g
18	ROUNDUP P-MAX	4.5	SL	0.28	lb ae/a	8	fl oz/a	V2	A				
18	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	V2	A				
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	A				
19	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4	B	93 ab	90 a	87 a-d	1.3 efg
19	ROUNDUP P-MAX	4.5	SL	0.28	lb ae/a	8	fl oz/a	V4	B				
19	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	V4	B				
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	B				
20	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V6	C	33 f	33 d	33 j	3.7 ab
20	ROUNDUP P-MAX	4.5	SL	0.28	lb ae/a	8	fl oz/a	V6	C				
20	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	V6	C				
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V6	C				

LSD (P=.05)	7.1	7.6	5.9	0.90
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Replicate F	0.390	0.073	1.257	6.108
Replicate Prob(F)	0.6799	0.9297	0.2961	0.0050
Treatment F	101.682	78.613	117.529	12.178
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001

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

Trial Comments

1. Protocol: SIU-DT/Bayer.
2. Ratings: CI at 7, 14, 28 + 56 DAT; WC at 14, 28 + 56 DAT; WC in all plots at 56 DA"C";
Weed counts (2) 0.5 m2 per plot at 56 DA"C".
3. Yield.
4. IPOSS = Morningglory species including IPOHE (ivyleaf morningglory) and IPOLA (pitted morningglory).
Injury was stunting, shortening of internodes.
5. DAT = Days after treatment. Plants 0.5 m2 = Plants per 0.5 square meter.
Ratings at 7 DAT were on 7-20-09, 7-25-09, and 7-31-09 for the V2, V4, and V6 applications, respectively.
Ratings at 14 DAT were on 7-27-09, 8-1-09, and 8-7-09 for the V2, V4, and V6 applications, respectively.
Ratings at 28 DAT were on 8-10-09, 8-15-09, and 8-21-09 for the V2, V4, and V6 applications, respectively.
Ratings at 56 DAT were on 9-7-09, 9-12-09, and 9-18-09 for the V2, V4, and V6 applications, respectively.
6. Harvested 1-17-10, (2) 30 inch rows by 25 ft.