

Capreno Application Timing - Site 1.

Trial ID: 09-51W-M100

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: 06-27-09

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: SEEDED Planting Date: 06-27-09
 Rate, Unit: 28000 S/A Depth, Unit: 1.5 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
 Pest 2 Type: W Code: IPOSS morningglory, species
 Pest 3 Type: W Code: AMBTR Ambrosia trifida L. ragweed, giant

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 27 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, P2O5 0 LB/A, K2O 100 LB/A

% OM: 2.2 Texture: SILT LOAM
 pH: 6.5 Soil Name: PIERRON
 CEC: 11 Fert. Level: P1: 94 LB/A, K: 396 LB/A

Application Description

	A	B	C
Application Date:	07-06-09	07-13-09	07-22-09
Time of Day:	13:00	12:00	14:00
Application Method:	Spray	Spray	Spray
Application Timing:	V2	V4	V6
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	DKT	DKT	DKT
Air Temperature, Unit:	82 F	78 F	75 F
% Relative Humidity:	80	92	86
Wind Velocity, Unit:	3 MPH	4 MPH	5 MPH
Wind Direction:	N	SE	W
Dew Presence (Y/N):	N	N	N
Soil Moisture:	ABONOR	ABONOR	NORMAL
% Cloud Cover:	80	40	70

	07-06-09	07-13-09	07-22-09
Crop stage at application:	V2	V4	V6
Height Min, Max (inch):	3 4	6 8	8 12

Pest Stage At Each Application

	07-06-09	07-13-09	07-22-09
Application Date:	07-06-09	07-13-09	07-22-09
Weed Code:	AMATA	AMATA	AMATA
Stage Majority (leaves):	NA	COTY	4
Stage Min, Max:		COTY 2	2 6
Height Majority:		0.5 IN	3 IN
Height Min, Max:		0.5 1.5	1 4
Density, Unit:		1 FT2	1 FT2
Weed Code:	IPOSS	IPOSS	IPOSS
Stage Majority (leaves):	1	1	6
Stage Min, Max:	COTY 3	COTY 3	2 8
Height Majority:	1.5 IN	2 IN	3 IN
Height Min, Max:	1 2	1 2	1 5
Density, Unit:	1 FT2	2 FT2	2 FT2
Weed Code:	AMBTR	AMBTR	AMBTR
Stage Majority (leaves):	4	4	4
Stage Min, Max:	COTY 4	COTY 4	4 6
Height Majority:	1.5 IN	2 IN	3 IN
Height Min, Max:	1 3	1 3	2 5
Density, Unit:	1 FT2	1 FT2	1 FT2

Application Equipment

	CO2 sprayer	CO2 sprayer	CO2 sprayer
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 12-12-09 Moisture Percent	ZEAMD 12-12-09 Yield bu/A	ZEAMD Injury Percent 7 DAT	ZEAMD Injury Percent 14 DAT	ZEAMD Injury Percent 28 DAT	ZEAMD Injury Percent 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	23.7 a	107 c	5 a	0 a	0 a	0 a
1	PRIME OIL COC	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	22.6 ab	125 ab	5 a	0 a	0 a	0 a
2	AATREX NINE-O	90	WG	0.5	lb ai/a	0.556	lb/a	V2	A						
2	PRIME OIL COC	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	23.0 ab	112 bc	5 a	0 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	23.1 ab	112 bc	5 a	0 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	22.9 ab	118 abc	5 a	0 a	0 a	0 a
5	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	23.6 a	118 abc	5 a	0 a	0 a	0 a
6	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 ab	118 abc	0 b	0 a	0 a	0 a
7	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	23.1 ab	121 abc	5 a	0 a	0 a	0 a
8	PRIME OIL COC	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	23.6 a	130 a	5 a	0 a	0 a	0 a
9	AATREX NINE-O	90	WG	0.5	lb ai/a	0.556	lb/a	V4	B						
9	PRIME OIL COC	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	23.2 ab	120 abc	5 a	0 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	23.2 ab	114 abc	5 a	0 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	23.0 ab	124 abc	0 b	0 a	0 a	0 a
12	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	22.5 ab	116 abc	5 a	0 a	0 a	0 a
13	PRIME OIL COC	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	21.8 b	117 abc	5 a	0 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	22.5 ab	113 bc	5 a	0 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	22.2 ab	121 abc	0 b	0 a	0 a	0 a
16	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									21.9 b	53 d	0 b	0 a	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
12-12-09 12-12-09
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	23.6 a	107 c	5 a	0 a	0 a	0 a
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	23.3 ab	121 abc	5 a	0 a	0 a	0 a
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	22.9 ab	114 abc	5 a	0 a	0 a	0 a
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)										1.63	17.2	0.0	0.0	0.0	0.0
Replicate F										1.243	14.482	0.000	0.000	0.000	0.000
Replicate Prob(F)										0.3000	0.0001	1.0000	1.0000	1.0000	1.0000
Treatment F										0.923	6.531	0.000	0.000	0.000	0.000
Treatment Prob(F)										0.5618	0.0001	1.0000	1.0000	1.0000	1.0000

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

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Location: Belleville Res. Center

Pest Code										AMATA	AMATA	AMATA	AMATA	IPOSS	IPOSS	IPOSS	IPOSS
Crop Code																	
Rating Date													09-16-09				09-16-09
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	Treatment	Form	Form	Rate	Other	Other	Growth	Appl									
No.	Name	Conc	Type	Unit	Rate	Rate Unit	Stage	Code									
1	CAPRENO	3.45	SC	0.081 lb ai/a	3 fl oz/a		V2	A	96 cd	93 c	91 b	0.3 cd	90 a-d	86 a-d	77 bcd	2.2 bc	
1	PRIME OIL COC	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	99 a	98 ab	98 ab	0.2 d	96 ab	97 a	93 a	0.7 efg	
2	AATREX NINE-O	90	WG	0.5 lb ai/a	0.556 lb/a		V2	A									
2	PRIME OIL COC	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	99 a	96 abc	94 ab	0.2 d	95 ab	90 ab	82 abc	1.3 c-f	
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	94 bc	93 ab	0.3 cd	88 a-e	85 a-d	67 d	2.2 bc	
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	98 ab	96 ab	0.2 d	90 a-d	85 a-d	82 abc	1.2 d-g	
5	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	97 abc	96 ab	0.2 d	91 abc	85 a-d	77 bcd	1.5 cde	
6	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	98 ab	98 a	0.0 d	80 c-f	57 f	17 e	2.8 b	
7	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	0.0 d	90 a-d	88 abc	90 ab	0.5 fg	
8	PRIME OIL COC	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	0.0 d	95 ab	92 ab	92 a	0.3 g	
9	AATREX NINE-O	90	WG	0.5 lb ai/a	0.556 lb/a		V4	B									
9	PRIME OIL COC	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 abc	95 abc	95 ab	0.7 c	95 ab	90 ab	90 ab	0.5 fg	
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	0.0 d	95 ab	90 ab	90 ab	0.5 fg	
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	0.0 d	88 a-e	73 de	73 cd	1.7 cd	
12	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	95 d	95 abc	99 a	0.0 d	78 ef	77 cde	85 abc	0.8 d-g	
13	PRIME OIL COC	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	98 ab	97 abc	99 a	0.0 d	78 def	75 de	77 bcd	1.7 cd	
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	98 ab	98 ab	99 a	0.0 d	98 a	96 a	94 a	0.3 g	
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	97 abc	97 abc	99 a	0.0 d	73 f	72 e	77 bcd	1.5 cde	
16	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 e	0 e	0 d	2.3 a	0 h	0 h	0 f	4.5 a	

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Crop Code								
Rating Date				09-16-09				09-16-09
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	96 bcd	85 d	68 c	1.3 b	17 g	17 g	13 ef	2.8 b
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 ab	99 a	0.0 d	98 a	95 a	93 a	0.5 fg
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	95 abc	96 ab	0.3 cd	85 b-f	82 b-e	83 abc	1.0 d-g
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)

2.2 4.6 6.6 0.42 12.3 12.8 14.1 0.91

Replicate F

5.652 9.557 8.291 5.147 3.211 0.834 2.366 12.734

Replicate Prob(F)

0.0071 0.0004 0.0010 0.0105 0.0515 0.4423 0.1075 0.0001

Treatment F

794.293 184.267 95.285 15.197 36.326 32.449 32.479 11.120

Treatment Prob(F)

0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001

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										AMBTR	AMBTR	AMBTR	AMBTR
Pest Code										09-16-09			
Crop Code										Plants			
Rating Date										0.5 m2			
Rating Data Type										Control	Control	Control	
Rating Unit										Percent	Percent	Percent	
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				
1	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	A	90 c	83 c	82 d	0.7 def
1	PRIME OIL COC	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	95 abc	92 abc	92 abc	0.5 def
2	AATREX NINE-O	90	WG	0.5	lb ai/a	0.556	lb/a	V2	A				
2	PRIME OIL COC	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	92 abc	91 abc	90 abc	0.7 def
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	91 bc	92 abc	87 bcd	1.0 cde
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	94 abc	94 ab	90 abc	0.7 def
5	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	96 ab	92 abc	92 abc	0.3 ef
6	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	90 c	87 bc	85 cd	1.2 cd
7	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 abc	90 abc	88 a-d	1.2 cd
8	PRIME OIL COC	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 abc	92 abc	92 abc	0.8 def
9	AATREX NINE-O	90	WG	0.5	lb ai/a	0.556	lb/a	V4	B				
9	PRIME OIL COC	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	93 abc	90 abc	82 d	1.7 c
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	91 bc	91 abc	89 a-d	0.8 def
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	96 ab	96 a	92 abc	0.7 def
12	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	97 a	96 a	93 ab	0.7 def
13	PRIME OIL COC	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	97 a	96 a	92 abc	0.5 def
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	96 ab	95 ab	93 ab	0.7 def
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	93 abc	93 ab	95 a	0.2 f
16	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 e	0 e	0 f	4.5 a

Capreno Application Timing - Site 1.

Trial ID: 09-51W-M100

Location: Belleville Res. Center

Pest Code	AMBTR	AMBTR	AMBTR	AMBTR
Crop Code				
Rating Date				09-16-09
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	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	73 d	50 d	33 e	2.7 b
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	95 abc	93 ab	93 abc	0.5 def
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	97 a	95 ab	94 ab	0.7 def
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)

5.7 9.0 7.8 0.72

Replicate F

Replicate Prob(F)

Treatment F

Treatment Prob(F)

0.274	0.029	0.604	3.199
0.7616	0.9711	0.5518	0.0520
117.403	50.786	74.686	15.041
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 7-13-09, 7-20-09, and 7-29-09 for the V2, V4, and V6 applications, respectively.
Ratings at 14 DAT were on 7-20-09, 7-27-09, and 8-5-09 for the V2, V4, and V6 applications, respectively.
Ratings at 28 DAT were on 8-3-09, 8-10-09, and 8-19-09 for the V2, V4, and V6 applications, respectively.
Ratings at 56 DAT were on 8-31-09, 9-7-09, and 9-16-09 for the V2, V4, and V6 applications, respectively.
6. Harvested 12-12-09, (2) 30 inch rows by 24 ft.