

Capreno Adjuvant Packages.

Trial ID: 09-2C-E65

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: Determine the influence of commercial adjuvant products on the efficacy of Capreno on fall panicum and other weed species.

Crop 1: ZEAMD	Dent corn	Variety: P33K44	Description: RR/LL
Planting Method:	SEEDED	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: PANDI	Panicum dichotomiflorum Michx.	panicum, fall
Pest 2 Type: W	Code: AMATA	Amaranthus rudis Sauer	waterhemp, common
Pest 3 Type: W	Code: AMBEL	Ambrosia artemisiifolia L.	ragweed, common
Pest 4 Type: W	Code: ABUTH	Abutilon theophrasti Medicus	velvetleaf

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. ZEAMD 2008

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

% OM:	1.6	Texture:	SILT LOAM
pH:	6.4	Soil Name:	PIERRON
CEC:	8	Fert. Level:	P1: 92 LB/A, K: 365 LB/A

Application Description

A
 Application Date: 07-16-09
 Time of Day: 14:45
 Application Method: Spray
 Application Timing: 3-4"FP
 Application Placement: BROFOL
 Applied By: NVH
 Air Temperature, Unit: 84 F
 % Relative Humidity: 58
 Wind Velocity, Unit: 3 MPH
 Wind Direction: W
 Dew Presence (Y/N): N
 Soil Moisture: NORMAL
 % Cloud Cover: 10

07-16-09
 Crop stage at application: V4
 Height Min, Max (inch): 10 14

Pest Stage At Each Application

Application Date: 07-16-09
 Weed Code: PANDI
 Stage Majority (leaves): 3
 Stage Min, Max: COTY 10
 Height Majority: 4 IN
 Height Min, Max: 1 14
 Density, Unit: 0.01 FT2
 Weed Code: AMATA
 Stage Majority (leaves): 4
 Stage Min, Max: 3 7
 Height Majority: 2 IN
 Height Min, Max: 1 4
 Density, Unit: 0.7 FT2
 Weed Code: AMBEL
 Stage Majority (leaves): 2
 Stage Min, Max: COTY 4
 Height Majority: 2 IN
 Height Min, Max: 0.5 3
 Density, Unit: 0.6 FT2
 Weed Code: ABUTH
 Stage Majority (leaves): 1
 Stage Min, Max: COTY 2
 Height Majority: 1 IN
 Height Min, Max: 0.5 2.5
 Density, Unit: 0.6 FT2

Application Equipment

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

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Location: Belleville Res. Center

								PANDI		
Pest Code								ZEAMD	ZEAMD	ZEAMD
Crop Code								07-30-09	08-13-09	08-27-09
Rating Date								Injury	Injury	Injury
Rating Data Type								Percent	Percent	Percent
Rating Unit								Control	Control	Control
Rating Timing								Percent	Percent	Percent
Trt-Eval Interval								14 DA-A	28 DA-A	42 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
1	NONTREATED									0 f 0 a 0 a 0 e 0 c 0 d
2	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	11 a 2 a 0 a 97 ab 99 a 98 b
2	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A	
2	DESTINY MSO	100	SL	1	% v/v	1	% v/v	3-4"FP	A	
2	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	3-4"FP	A	
3	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	3-4"FP	A	1 ef 0 a 0 a 98 a 95 b 95 c
3	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A	
3	DESTINY MSO	100	SL	1	% v/v	1	% v/v	3-4"FP	A	
3	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	3-4"FP	A	
4	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	3 c-f 0 a 0 a 95 c 99 a 99 ab
4	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A	
4	DESTINY MSO	100	SL	0.5	% v/v	0.5	% v/v	3-4"FP	A	
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	3-4"FP	A	
5	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	6 bc 1 a 0 a 96 bc 99 a 98 b
5	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A	
5	DESTINY MSO	100	SL	1	% v/v	1	% v/v	3-4"FP	A	
5	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	3-4"FP	A	
6	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	5 bcd 0 a 0 a 97 ab 99 a 98 ab
6	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A	
6	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	3-4"FP	A	
6	CLASS ACT NG	100	SL	1.25	% v/v	5	qt/100 gal	3-4"FP	A	
6	INTERLOCK	100	SL	4	fl oz/a	4	fl oz/a	3-4"FP	A	
7	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	4 cde 0 a 0 a 96 bc 99 a 98 ab
7	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A	
7	DYNE-AMIC	100	SL	0.5	% v/v	2	qt/100 gal	3-4"FP	A	
7	ACCUZONE DC	100	SG	1.08	% w/w	9	lb/100 gal	3-4"FP	A	
8	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	4 cde 0 a 0 a 97 ab 99 a 98 ab
8	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A	
8	SUNDANCE II	100	SL	1.5	pt/a	1.5	pt/a	3-4"FP	A	
8	ARRAY	100	SG	1.08	% w/w	9	lb/100 gal	3-4"FP	A	
9	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	2 def 0 a 0 a 92 d 99 a 99 a
9	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A	
9	SOY-STIK	100	SL	1.5	pt/a	1.5	pt/a	3-4"FP	A	
9	GARDIAN PLUS	100	SL	0.5	% v/v	2	qt/100 gal	3-4"FP	A	
10	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	4 cde 0 a 0 a 97 ab 99 a 99 a
10	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A	
10	SUCCEED	100	SL	1.5	pt/a	1.5	pt/a	3-4"FP	A	
10	DOUBLEDOWN	100	SL	2.5	% v/v	2.5	gal/100 gal	3-4"FP	A	
11	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	8 ab 2 a 0 a 97 ab 99 a 99 a
11	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A	
11	PERSIST ULTRA	100	SL	1.5	pt/a	1.5	pt/a	3-4"FP	A	
11	BORDER XTRA 8L	100	SL	2.5	% v/v	2.5	gal/100 gal	3-4"FP	A	
12	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	10 a 2 a 0 a 97 ab 99 a 99 ab
12	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A	
12	SUPERSPREAD MSO	100	SL	1.5	pt/a	1.5	pt/a	3-4"FP	A	
12	BRONC MAX E.D.T.	100	SL	0.5	% v/v	2	qt/100 gal	3-4"FP	A	
LSD (P=.05)								3.5	2.6	0.0 1.5 1.3 0.8
Replicate F								4.013	1.650	0.000 0.138 1.000 2.655
Replicate Prob(F)								0.0327	0.2149	1.0000 0.8723 0.3840 0.0927
Treatment F								8.220	1.028	0.000 2874.400 4169.767 10987.863
Treatment Prob(F)								0.0001	0.4558	1.0000 0.0001 0.0001 0.0001

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

Capreno Adjuvant Packages.

Trial ID: 09-2C-E65

Location: Belleville Res. Center

									AMATA	AMATA	AMATA	AMBEL	AMBEL	AMBEL
Pest Code									07-30-09	08-13-09	08-27-09	07-30-09	08-13-09	08-27-09
Crop Code									Control	Control	Control	Control	Control	Control
Rating Date									Percent	Percent	Percent	Percent	Percent	Percent
Rating Data Type														
Rating Unit														
Rating Timing														
Trt-Eval Interval									14 DA-A	28 DA-A	42 DA-A	14 DA-A	28 DA-A	42 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	NONTREATED									0 b	0 b	0 b	0 b	0 b
2	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	99 a	99 a	99 a	99 a	99 a
2	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A					
2	DESTINY MSO	100	SL	1	% v/v	1	% v/v	3-4"FP	A					
2	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	3-4"FP	A					
3	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	3-4"FP	A	99 a	99 a	99 a	99 a	99 a
3	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A					
3	DESTINY MSO	100	SL	1	% v/v	1	% v/v	3-4"FP	A					
3	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	3-4"FP	A					
4	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	99 a	99 a	99 a	99 a	99 a
4	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A					
4	DESTINY MSO	100	SL	0.5	% v/v	0.5	% v/v	3-4"FP	A					
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	3-4"FP	A					
5	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	99 a	99 a	99 a	99 a	99 a
5	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A					
5	DESTINY MSO	100	SL	1	% v/v	1	% v/v	3-4"FP	A					
5	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	3-4"FP	A					
6	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	99 a	99 a	99 a	99 a	99 a
6	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A					
6	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	3-4"FP	A					
6	CLASS ACT NG	100	SL	1.25	% v/v	5	qt/100 gal	3-4"FP	A					
6	INTERLOCK	100	SL	4	fl oz/a	4	fl oz/a	3-4"FP	A					
7	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	99 a	99 a	99 a	99 a	99 a
7	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A					
7	DYNE-AMIC	100	SL	0.5	% v/v	2	qt/100 gal	3-4"FP	A					
7	ACCUZONE DC	100	SG	1.08	% w/w	9	lb/100 gal	3-4"FP	A					
8	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	99 a	99 a	99 a	99 a	99 a
8	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A					
8	SUNDANCE II	100	SL	1.5	pt/a	1.5	pt/a	3-4"FP	A					
8	ARRAY	100	SG	1.08	% w/w	9	lb/100 gal	3-4"FP	A					
9	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	99 a	99 a	99 a	99 a	99 a
9	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A					
9	SOY-STIK	100	SL	1.5	pt/a	1.5	pt/a	3-4"FP	A					
9	GARDIAN PLUS	100	SL	0.5	% v/v	2	qt/100 gal	3-4"FP	A					
10	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	99 a	99 a	99 a	99 a	99 a
10	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A					
10	SUCCEED	100	SL	1.5	pt/a	1.5	pt/a	3-4"FP	A					
10	DOUBLEDOWN	100	SL	2.5	% v/v	2.5	gal/100 gal	3-4"FP	A					
11	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	99 a	99 a	99 a	99 a	99 a
11	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A					
11	PERSIST ULTRA	100	SL	1.5	pt/a	1.5	pt/a	3-4"FP	A					
11	BORDER XTRA 8L	100	SL	2.5	% v/v	2.5	gal/100 gal	3-4"FP	A					
12	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	99 a	99 a	99 a	99 a	99 a
12	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A					
12	SUPERSPREAD MSO	100	SL	1.5	pt/a	1.5	pt/a	3-4"FP	A					
12	BRONC MAX E.D.T.	100	SL	0.5	% v/v	2	qt/100 gal	3-4"FP	A					
LSD (P=.05)										0.0	0.0	0.0	0.0	0.0
Replicate F										0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F										0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	1.0000	1.0000	1.0000

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

Capreno Adjuvant Packages.

Trial ID: 09-2C-E65

Location: Belleville Res. Center

Pest Code	ABUTH	ABUTH	ABUTH
Crop Code			
Rating Date	07-30-09	08-13-09	08-27-09
Rating Data Type	Control	Control	Control
Rating Unit	Percent	Percent	Percent
Rating Timing			
Trt-Eval Interval	14 DA-A	28 DA-A	42 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	NONTREATED									0 b	0 b	0 b
2	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	99 a	99 a	99 a
2	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A			
2	DESTINY MSO	100	SL	1	% v/v	1	% v/v	3-4"FP	A			
2	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	3-4"FP	A			
3	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	3-4"FP	A	99 a	99 a	99 a
3	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A			
3	DESTINY MSO	100	SL	1	% v/v	1	% v/v	3-4"FP	A			
3	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	3-4"FP	A			
4	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	99 a	99 a	99 a
4	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A			
4	DESTINY MSO	100	SL	0.5	% v/v	0.5	% v/v	3-4"FP	A			
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	3-4"FP	A			
5	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	99 a	99 a	99 a
5	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A			
5	DESTINY MSO	100	SL	1	% v/v	1	% v/v	3-4"FP	A			
5	WEATHER GUARD COMPLETE	100	SL	0.5	% v/v	2	qt/100 gal	3-4"FP	A			
6	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	99 a	99 a	99 a
6	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A			
6	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	3-4"FP	A			
6	CLASS ACT NG	100	SL	1.25	% v/v	5	qt/100 gal	3-4"FP	A			
6	INTERLOCK	100	SL	4	fl oz/a	4	fl oz/a	3-4"FP	A			
7	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	99 a	99 a	99 a
7	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A			
7	DYNE-AMIC	100	SL	0.5	% v/v	2	qt/100 gal	3-4"FP	A			
7	ACCUZONE DC	100	SG	1.08	% w/w	9	lb/100 gal	3-4"FP	A			
8	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	99 a	99 a	99 a
8	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A			
8	SUNDANCE II	100	SL	1.5	pt/a	1.5	pt/a	3-4"FP	A			
8	ARRAY	100	SG	1.08	% w/w	9	lb/100 gal	3-4"FP	A			
9	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	99 a	99 a	99 a
9	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A			
9	SOY-STIK	100	SL	1.5	pt/a	1.5	pt/a	3-4"FP	A			
9	GARDIAN PLUS	100	SL	0.5	% v/v	2	qt/100 gal	3-4"FP	A			
10	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	99 a	99 a	99 a
10	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A			
10	SUCCEED	100	SL	1.5	pt/a	1.5	pt/a	3-4"FP	A			
10	DOUBLEDOWN	100	SL	2.5	% v/v	2.5	gal/100 gal	3-4"FP	A			
11	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	99 a	99 a	99 a
11	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A			
11	PERSIST ULTRA	100	SL	1.5	pt/a	1.5	pt/a	3-4"FP	A			
11	BORDER XTRA 8L	100	SL	2.5	% v/v	2.5	gal/100 gal	3-4"FP	A			
12	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"FP	A	99 a	99 a	99 a
12	ATRAZINE 4L	4	SC	0.5	lb ai/a	1	pt/a	3-4"FP	A			
12	SUPERSPREAD MSO	100	SL	1.5	pt/a	1.5	pt/a	3-4"FP	A			
12	BRONC MAX E.D.T.	100	SL	0.5	% v/v	2	qt/100 gal	3-4"FP	A			

LSD (P=.05)	0.0	0.0	0.0
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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: Bayer (DLZ).
2. Ratings: CI/WC at 14, 28 + 42 DAT.
3. Target Fall panicum.
4. Crop injury was stunting.
5. Not harvested.