

## Purdue University

## CAPRENO AND LAUDIS IN CORN

Trial ID: 09S-SEP-NTC-09      Protocol ID: 09S-SEP-NTC-09  
 Location: SEPAC      Study Director: MELISSA KRUGER/PAUL MARQUARDT  
 Project ID:      Investigator: Dr. Bill Johnson  
                          Sponsor Contact: DAVID LAMORE

## General Trial Information

**Study Director:** MELISSA KRUGER/PAUL MARQUARDT      **Title:** LAB TECH VIII/RESEARCH ASSOC.  
**Investigator:** Dr. William G. Johnson      **Title:** Associate Professor

**Discipline:** H herbicide  
**Trial Status:** F one-year/final  
**Initiation Date:** 5/26/09      **Planned Completion Date:** 8/12/09

## Trial Location

**City:** Butlerville  
**State/Prov.:** IN  
**Postal Code:** 47223-0216  
**Country:** USA

## Objectives:

The objective of the trial is the evaluate the efficacy of Capreno and Laudis in corn.

## Personnel

**Study Director:** MELISSA KRUGER/PAUL MARQUARDT      **Title:** LAB TECH VIII/RESEARCH ASSOC.  
**Affiliation:** PURDUE UNIVERSITY  
**Address:** 915 W. STATE ST.  
**Location:** WEST LAFAYETTE, IN USA  
**Postal Code:** 47907      **E-mail:** MMKRUGER@PURDUE.EDU/PMARQUAR@PURDUE.EDU  
**Phone No.:** 765-494-4621  
**Investigator:** Dr. William G. Johnson      **Title:** Associate Professor  
**Affiliation:** Purdue University  
**Address:** 915 W. State St.  
**Location:** West Lafayette, IN USA  
**Postal Code:** 47907      **E-mail:** wgj@purdue.edu  
**Phone No.:** 765-494-4656

## Cooperator/Landowner

**Cooperator:** Southeastern-Purdue Ag Center      **Role:** Cooperator  
**Organization:** Purdue University  
**Address 1:** 4425 E Co. Rd. 350 N  
**Phone No.:** 1-812-458-6977  
**City:** Butlerville      **Fax No.:** 1-812-458-6979  
**State/Prov:** IN  
**Postal Code:** 477223-021      **E-mail:** biehled@purdue.edu  
**Country:** USA      United States

## Crop Description

**Crop 1:** ZEAMX      Zea mays      Corn  
**Variety:** Pioneer 33W84      **Description:** RR/LL  
**BBCH Scale:** BCOR      **Planting Date:** 5/26/09  
**Planting Method:** DIRDRI      direct drilled      **Rate, Unit:** 31000 S/A  
**Depth, Unit:** 1.25 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** NOTILL      **Soil Temperature, Unit:** 76 F  
**Soil Moisture:** SLIWET      slightly wet      **Emergence Date:** 5/31/09  
**Harvest Date:** 11/11/09      **Harvest Equipment:** Gleaner F3  
**Harvested Width, Unit:** 10 FT      **Harvested Length, Unit:** 25 FT  
**% Standard Moisture:** 15.0      **Moisture Meter:** Harvest Master  
**Weighing Equipment:** Carter Manufacturing

## Pest Description

**Pest 1 Type:** W      **Code:** ERICA      Conyza canadensis  
**Common Name:** Canada horseweed  
**Pest 2 Type:** W      **Code:** TAROF      Taraxacum officinale  
**Common Name:** Common dandelion

**Pest 3 Type:** W **Code:** SENGL *Senecio glabellus*  
**Common Name:** Cressleaf groundsel

**Pest 4 Type:** W **Code:** ALOCA *Alopecurus carolinianus*  
**Common Name:** Carolina foxtail

**Pest 5 Type:** W **Code:** DIGSA *Digitaria sanguinalis*  
**Common Name:** Large crabgrass

**Pest 6 Type:** W **Code:** RANAB *Ranunculus abortivus*  
**Common Name:** Smallflower buttercup

**Pest 7 Type:** W **Code:** AMBEL *Ambrosia artemisiifolia*  
**Common Name:** Common Ragweed

**Pest 8 Type:** W **Code:** VENAL *Vernonia altissima*  
**Common Name:** Tall ironweed

**Pest 9 Type:** W **Code:** POAAN *Poa annua*  
**Common Name:** Annual bluegrass

**Pest10 Type:** W **Code:** PANDI *Panicum dichotomiflorum*  
**Common Name:** Fall panicum

**Pest11 Type:** W **Code:** IPOSS *Ipomoea sp.*  
**Common Name:** Morning glory

**Pest12 Type:** W **Code:** SETFA *Setaria faberi*  
**Common Name:** Giant foxtail

**Site and Design**

**Plot Width, Unit:** 10 FT                      **Site Type:** FIELD    field  
**Plot Length, Unit:** 30 FT                **Experimental Unit:** 1    PLOT plot  
**Plot Area, Unit:** 300 FT2                **Tillage Type:** NOTILL    no-till  
**Replications:** 4                            **Study Design:** RACOB    Randomized Complete Block (RCB)  
**Untreated Arrangement:** INCLUDED    single control randomized in each block

**Field Prep./Maintenance:**  
 6/9/09 - 554 lb/a Nitrogen 28-0-0 applied

**Soil Description**

**Description Name:** SEPAC Field U4-6  
**% OM:** 1.8    **Texture:** SIL silt loam  
**pH:** 5.6    **Soil Name:** Avonburg  
**CEC:** 6.7

**Analyzed By:**  
 A&L Great Lakes Laboratories, Inc. Report#: F07320-0472

**Additional Measured Elements**

Element	Quantity	Unit
P	7	ppm
K	59	ppm
Mg	140	ppm
Ca	600	ppm

**Moisture and Weather Conditions**

**Closest Weather Station:** On research station **Distance, Unit:** 0.5 MI

**Application Description**

	A	B	C
Application Date:	5/26/09	6/9/09	6/24/09
Time of Day:	2:55-3:05	8:55-9:10	8:35-8:45
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PREPRE	EAPOWE	MIPOCR
Application Placement:	BROSOL	BROFOL	BROFOL
Applied By:	GK	CB	RH
Air Temperature, Unit:	83 F	73 F	76 F
% Relative Humidity:	56	80	71
Wind Velocity, Unit:	4 MPH	1.5 MPH	1.5 MPH
Wind Direction:	SSW	S	SSW
Dew Presence (Y/N):	N no	Y yes	N no
Soil Temperature, Unit:	78 F	74 F	76 F
Soil Moisture:	DRY	Dry	Moist
% Cloud Cover:	50	80	0

**Crop Stage At Each Application**

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH	BBCH
Stage Majority, Percent:	N/A	V2	V6
Stage Minimum, Percent:		V1	V5
Stage Maximum, Percent:		V2	V7
Height, Unit:		5 IN	27 IN
Height Minimum, Maximum:		4 6	18 36

**Pest Stage At Each Application**

	A	B	C
Pest 1 Code, Type, Scale:	ERICA W	ERICA W	ERICA W
Stage Majority, Percent:	BOLT	BOLT	
Stage Minimum, Percent:	COTY	COTY	
Stage Maximum, Percent:	BOLT	BOLT	
Height, Unit:	2 IN	3 IN	20 IN
Height Minimum, Maximum:	0 4	1 6	6 30
Density, Unit:	1 YD2	2 YD2	2 YD2
Pest 2 Code, Type, Scale:	TAROF W	TAROF W	TAROF W
Stage Majority, Percent:	VEG	ROSETT	
Stage Minimum, Percent:	COTY		
Stage Maximum, Percent:	SEED		
Height, Unit:	5 IN	3 IN	10 IN
Height Minimum, Maximum:	0 12	2 4	2 12
Density, Unit:	9 YD2	20 YD2	20 YD2
Pest 3 Code, Type, Scale:	SENGL W	SENGL W	SENGL W
Stage Majority, Percent:	FLOWER		
Stage Minimum, Percent:	FLOWER		
Stage Maximum, Percent:	SEED		
Height, Unit:	36 IN		
Height Minimum, Maximum:	6 40		
Density, Unit:	11 YD2		
Pest 4 Code, Type, Scale:	ALOCA W	ALOCA W	ALOCA W

Stage Majority, Percent:	FLOWER		
Stage Minimum, Percent:	FLOWER		
Stage Maximum, Percent:	SEED		
Height, Unit:	16 IN		
Height Minimum, Maximum:	0 18		
Density, Unit:	25 FT2		
Pest 5 Code, Type, Scale:	DIGSA W	DIGSA W	DIGSA W
Stage Majority, Percent:	2 LF		
Stage Minimum, Percent:	1 LF		
Stage Maximum, Percent:	3 LF		
Height, Unit:	1 IN		
Height Minimum, Maximum:	0 2		
Density, Unit:	130 FT2		
Pest 6 Code, Type, Scale:	RANAB W	RANAB W	RANAB W
Stage Majority, Percent:	VEG		
Stage Minimum, Percent:	COTY		
Stage Maximum, Percent:	SEED		
Height, Unit:	8 IN		
Height Minimum, Maximum:	0 12		
Density, Unit:	3 YD2		
Pest 7 Code, Type, Scale:	AMBEL W	AMBEL W	AMBEL W
Stage Majority, Percent:	2 NODE		
Stage Minimum, Percent:	COTY		
Stage Maximum, Percent:	2 NODE		
Height, Unit:	4 IN		
Height Minimum, Maximum:	0 6		
Density, Unit:	3 YD2		
Pest 8 Code, Type, Scale:	VENAL W	VENAL W	VENAL W
Stage Majority, Percent:	VEG		
Height, Unit:	18 IN		
Height Minimum, Maximum:	6 24		
Density, Unit:	1 YD2		
Pest 9 Code, Type, Scale:	POAAN W	POAAN W	POAAN W
Stage Majority, Percent:	VEG		
Height, Unit:	2 IN		
Height Minimum, Maximum:	0 3		
Density, Unit:	27 FT2		
Pest10 Code, Type, Scale:	PANDI W	PANDI W	PANDI W
Stage Majority, Percent:		2 LF	
Stage Minimum, Percent:		1 LF	
Stage Maximum, Percent:		3 LF	
Height, Unit:		5.5 IN	7.5 IN
Height Minimum, Maximum:		1 10	1 14
Density, Unit:		65 YD2	62.5 YD2
Pest11 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W
Height, Unit:			3 IN
Height Minimum, Maximum:			0 6
Density, Unit:			7 YD2
Pest12 Code, Type, Scale:	SETFA W	SETFA W	SETFA W

**Application Equipment**

	<b>A</b>	<b>B</b>	<b>C</b>
<b>Appl. Equipment:</b>	CO2 Backpack	CO2 Backpack	CO2 Backpack
<b>Equipment Type:</b>	SPRBAC	SPRBAC	SPRBAC
<b>Operating Pressure, Unit:</b>	17 PSI	17 PSI	17 PSI
<b>Nozzle Type:</b>	Flat Fan	Flat Fan	Flat Fan
<b>Nozzle Size:</b>	XR11002	XR11002	XR11002
<b>Nozzle Spacing, Unit:</b>	15 IN	15 IN	15 IN
<b>Nozzles/Row:</b>	6	6	6
<b>Boom Length, Unit:</b>	7.5 FT	7.5 FT	7.5 FT
<b>Boom Height, Unit:</b>	18 IN	18 IN	18 IN
<b>Ground Speed, Unit:</b>	3 MPH	3 MPH	3 MPH
<b>Carrier:</b>	H2O	H2O	H2O
<b>Water Hardness (ppm CaCO3):</b>	150	150	150
<b>Spray Volume, Unit:</b>	15 GAL/AC	15 GAL/AC	15 GAL/AC
<b>Mix Size, Unit:</b>	1.8 Liters	1.8 Liters	1.8 Liters
<b>Propellant:</b>	CO2	CO2	CO2
<b>Tank Mix (Y/N):</b>	N no	N no	N no

**Date By Notes**

11/6/09 MK Corn yields reflect the amount of rain received at SEPAC over the summer, the grass pressure in the trial, and deer damage to some of the plots.

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 Location: SEPAC                  Study Director: MELISSA KRUGER/PAUL MARQUARDT  
 Project ID:                          Investigator: Dr. Bill Johnson  
    Sponsor Contact: DAVID LAMORE

Pest Type	Pest Code	W Weed	W Weed	W Weed	W Weed	W Weed				
		SETFA	SETFA	SETFA	PANDI	PANDI				
Pest Scientific Name		Setaria faberi	Setaria faberi	Setaria faberi	Panicum dichot>	Panicum dichot>				
Pest Name		Giant foxtail	Giant foxtail	Giant foxtail	Fall panicum	Fall panicum				
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX				
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays				
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn				
Part Rated	PLOT C	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P				
Rating Date	7/6/09	7/6/09	7/21/09	8/12/09	7/6/09	7/21/09				
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Sample Size, Unit										
Number of Subsamples	1	1	1	1	1	1				
Crop Stage Majority	V4-V7	V4-V7	V11	R3	V4-V7	V11				
Crop Stage Minimum/Maximum	12-48"	12-48"	30-80"	8-9'	12-48"	30-80"				
Pest Stage Majority		TILL-FLO	TILL-FLO	TILL-SEE	TILL	TILL				
Pest Stage Minimum/Maximum		6-36"	20-36"	12-66"	6-36"	12-45"				
Pest Density, Unit		30 FT2	30 FT2	30 FT2	30 FT2	30 FT2				
Footnote Number	1									
Assessed By	MK	MK	MK JM	MK RH	MK	MK JM				
Rating Timing										
Days After First/Last Applic.	41 12	41 12	56 27	78 49	41 12	56 27				
Trt-Eval Interval										
Plant-Eval Interval	41 DP-1	41 DP-1	56 DP-1	78 DP-1	41 DP-1	56 DP-1				
Days After Emergence	36 DE-	36 DE-	51 DE-	73 DE-	36 DE-	51 DE-				
Number of Decimals										
Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	6	10	3	7
1	UNTREATED				0.0 a	0.0 b	0.0 b	0.0 d	0.0 d	0.0 c
2	CORVUS	0.0615	lb ai/a	A	0.0 a	99.5 a	99.8 a	98.5 a	99.0 a	99.0 a
	ATRAZINE	1	lb ai/a	A						
	CAPRENO	0.081	lb ai/a	C						
	ATRAZINE	0.5	lb ai/a	C						
	UAN 28%	0.88	lb ai/a	C						
	COC	1	% v/v	C						
3	CAPRENO	0.054	lb ai/a	C	0.0 a	96.3 a	99.5 a	96.8 a	95.3 ab	99.3 a
	ROUNDUP POWERMAX	0.77	lb ae/a	C						
	AMMONIUM SULFATE	17	lb/100 gal	C						
4	CAPRENO	0.081	lb ai/a	C	0.0 a	95.0 a	99.8 a	97.5 a	84.3 b	99.3 a
	ROUNDUP POWERMAX	0.387	lb ae/a	C						
	SUPERB HC	0.75	pt/a	C						
	AMMONIUM SULFATE	17	lb/100 gal	C						
5	HALEX GT	3.94	lb ai/a	B	0.0 a	99.8 a	100.0 a	91.0 ab	95.0 ab	95.0 a
	NIS	0.25	% v/v	B						
	AMMONIUM SULFATE	17	lb/100 gal	B						
6	CAPRENO	0.081	lb ai/a	B	0.0 a	96.5 a	100.0 a	73.8 c	84.5 b	88.8 a
	ATRAZINE	0.5	lb ai/a	B						
	UAN 28%	0.88	lb ai/a	B						
	COC	1	% v/v	B						

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Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code		SETFA	SETFA	SETFA	PANDI	PANDI				
Pest Scientific Name		Setaria faberi	Setaria faberi	Setaria faberi	Panicum dichot>	Panicum dichot>				
Pest Name		Giant foxtail	Giant foxtail	Giant foxtail	Fall panicum	Fall panicum				
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX				
Crop Scientific Name	Zea mays	Zea mays								
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn				
Part Rated	PLOT C	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P				
Rating Date	7/6/09	7/6/09	7/21/09	8/12/09	7/6/09	7/21/09				
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Sample Size, Unit										
Number of Subsamples	1	1	1	1	1	1				
Crop Stage Majority	V4-V7	V4-V7	V11	R3	V4-V7	V11				
Crop Stage Minimum/Maximum	12-48"	12-48"	30-80"	8-9'	12-48"	30-80"				
Pest Stage Majority		TILL-FLO	TILL-FLO	TILL-SEE	TILL	TILL				
Pest Stage Minimum/Maximum		6-36"	20-36"	12-66"	6-36"	12-45"				
Pest Density, Unit		30 FT2	30 FT2	30 FT2	30 FT2	30 FT2				
Footnote Number	1									
Assessed By	MK	MK	MK JM	MK RH	MK	MK JM				
Rating Timing										
Days After First/Last Applic.	41 12	41 12	56 27	78 49	41 12	56 27				
Trt-Eval Interval										
Plant-Eval Interval	41 DP-1	41 DP-1	56 DP-1	78 DP-1	41 DP-1	56 DP-1				
Days After Emergence	36 DE-	36 DE-	51 DE-	73 DE-	36 DE-	51 DE-				
Number of Decimals										
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	1	2	6	10	3	7
7	IMPACT	0.0164	lb ai/a	B	0.0 a	99.8 a	98.8 a	73.8 c	73.8 c	77.0 b
	ATRAZINE	0.5	lb ai/a	B						
	UAN 28%	0.88	lb ai/a	B						
	COC	1	% v/v	B						
8	CAPRENO	0.081	lb ai/a	B	0.0 a	96.0 a	99.8 a	82.5 bc	90.8 ab	92.5 a
	ATRAZINE	0.5	lb ai/a	B						
	UAN 28%	0.88	lb ai/a	B						
	DESTINY HC	0.5	% v/v	B						
9	LEXAR	2.22	lb ai/a	A	0.0 a	98.8 a	98.8 a	95.3 a	87.5 ab	95.0 a
	CAPRENO	0.081	lb ai/a	C						
	ATRAZINE	0.5	lb ai/a	C						
	UAN 28%	0.88	lb ai/a	C						
	COC	1	% v/v	C						
10	UNTREATED				0.0 a	0.0 b	0.0 b	0.0 d	0.0 d	0.0 c
LSD (P=.05)		0.00			5.63	1.42	10.45	8.79	7.82	
Standard Deviation		0.00			3.88	0.98	7.20	6.05	5.39	
CV		0.0			4.96	1.23	10.16	8.53	7.23	
Bartlett's X2		0.0			32.364	16.013	36.408	12.381	42.192	
P(Bartlett's X2)		.			0.001*	0.007*	0.001*	0.054	0.001*	
Replicate F		0.000			1.084	5.870	0.283	0.266	1.344	
Replicate Prob(F)		1.0000			0.3727	0.0032	0.8373	0.8496	0.2810	
Treatment F		0.000			451.958	7351.725	114.333	158.308	218.823	
Treatment Prob(F)		1.0000			0.0001	0.0001	0.0001	0.0001	0.0001	

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Pest Type	W Weed				
Pest Code	PANDI	ERICA	ERICA	ERICA	TAROF
Pest Scientific Name	Panicum dichot>	Conyza canaden>	Conyza canaden>	Conyza canaden>	Taraxacum offi>
Pest Name	Fall panicum	Horseweed	Horseweed	Horseweed	Common dandel>
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Scientific Name	Zea mays				
Crop Name	Corn	Corn	Corn	Corn	Corn
Part Rated	PLOT P				
Rating Date	8/12/09	7/6/09	7/21/09	8/12/09	7/6/09
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Sample Size, Unit					
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	R3	V4-V7	V11	R3	V4-V7
Crop Stage Minimum/Maximum	8-9'	12-48"	30-80"	8-9'	12-48"
Pest Stage Majority	TILL-FLO	BOLT	BOLT	VEG	VEG
Pest Stage Minimum/Maximum	12-56"	6-36"	6-36"	6-45"	2-12"
Pest Density, Unit	30 FT2	2 YD2	2 YD2	2 YD2	20 YD2
Footnote Number					
Assessed By	MK RH	MK	MK JM	MK RH	MK
Rating Timing					
Days After First/Last Applic.	78 49	41 12	56 27	78 49	41 12
Trt-Eval Interval					
Plant-Eval Interval	78 DP-1	41 DP-1	56 DP-1	78 DP-1	41 DP-1
Days After Emergence	73 DE-	36 DE-	51 DE-	73 DE-	36 DE-
Number of Decimals					
Trt No.	11	4	8	12	5
Treatment Name					
Rate					
Unit					
Appl Code					
1 UNTREATED	0.0 c	0.0 c	0.0 b	0.0 b	0.0 b
2 CORVUS	0.0615 lb ai/a	99.5 a	100.0 a	99.8 a	98.0 a
ATRAZINE	1 lb ai/a				
CAPRENO	0.081 lb ai/a				
ATRAZINE	0.5 lb ai/a				
UAN 28%	0.88 lb ai/a				
COC	1 % v/v				
3 CAPRENO	0.054 lb ai/a	97.3 a	98.8 a	100.0 a	99.8 a
ROUNDUP POWERMAX	0.77 lb ae/a				
AMMONIUM SULFATE	17 lb/100 gal				
4 CAPRENO	0.081 lb ai/a	97.0 a	88.8 b	100.0 a	99.8 a
ROUNDUP POWERMAX	0.387 lb ae/a				
SUPERB HC	0.75 pt/a				
AMMONIUM SULFATE	17 lb/100 gal				
5 HALEX GT	3.94 lb ai/a	91.5 a	100.0 a	100.0 a	99.8 a
NIS	0.25 % v/v				
AMMONIUM SULFATE	17 lb/100 gal				
6 CAPRENO	0.081 lb ai/a	85.5 a	100.0 a	100.0 a	100.0 a
ATRAZINE	0.5 lb ai/a				
UAN 28%	0.88 lb ai/a				
COC	1 % v/v				

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	PANDI	ERICA	ERICA	ERICA	TAROF				
Pest Scientific Name	Panicum dichot>	Conyza canad>	Conyza canad>	Conyza canad>	Taraxacum offi>				
Pest Name	Fall panicum	Horseweed	Horseweed	Horseweed	Common dandel>				
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX				
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays				
Crop Name	Corn	Corn	Corn	Corn	Corn				
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P				
Rating Date	8/12/09	7/6/09	7/21/09	8/12/09	7/6/09				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Sample Size, Unit									
Number of Subsamples	1	1	1	1	1				
Crop Stage Majority	R3	V4-V7	V11	R3	V4-V7				
Crop Stage Minimum/Maximum	8-9'	12-48"	30-80"	8-9'	12-48"				
Pest Stage Majority	TILL-FLO	BOLT	BOLT	VEG	VEG				
Pest Stage Minimum/Maximum	12-56"	6-36"	6-36"	6-45"	2-12"				
Pest Density, Unit	30 FT2	2 YD2	2 YD2	2 YD2	20 YD2				
Footnote Number									
Assessed By	MK RH	MK	MK JM	MK RH	MK				
Rating Timing									
Days After First/Last Applic.	78 49	41 12	56 27	78 49	41 12				
Trt-Eval Interval									
Plant-Eval Interval	78 DP-1	41 DP-1	56 DP-1	78 DP-1	41 DP-1				
Days After Emergence	73 DE-	36 DE-	51 DE-	73 DE-	36 DE-				
Number of Decimals									
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code					
					11	4	8	12	5
7	IMPACT	0.0164	lb ai/a	B	62.5 b	100.0 a	100.0 a	100.0 a	100.0 a
	ATRAZINE	0.5	lb ai/a	B					
	UAN 28%	0.88	lb ai/a	B					
	COC	1	% v/v	B					
8	CAPRENO	0.081	lb ai/a	B	91.3 a	100.0 a	100.0 a	99.8 a	94.5 a
	ATRAZINE	0.5	lb ai/a	B					
	UAN 28%	0.88	lb ai/a	B					
	DESTINY HC	0.5	% v/v	B					
9	LEXAR	2.22	lb ai/a	A	95.5 a	100.0 a	100.0 a	99.8 a	100.0 a
	CAPRENO	0.081	lb ai/a	C					
	ATRAZINE	0.5	lb ai/a	C					
	UAN 28%	0.88	lb ai/a	C					
	COC	1	% v/v	C					
10	UNTREATED				0.0 c	0.0 c	0.0 b	0.0 b	0.0 b
LSD (P=.05)		10.39			6.54	0.00	0.57	6.51	
Standard Deviation		7.16			4.51	0.00	0.39	4.48	
CV		9.96			5.73	0.0	0.49	5.84	
Bartlett's X2		44.206			16.414	0.0	0.0	17.68	
P(Bartlett's X2)		0.001*			0.001*	.	.	0.003*	
Replicate F		1.512			1.506	0.000	0.643	0.787	
Replicate Prob(F)		0.2339			0.2355	1.0000	0.5941	0.5115	
Treatment F		120.444			340.984	0.000	45543.290	328.766	
Treatment Prob(F)		0.0001			0.0001	1.0000	0.0001	0.0001	

Pest Type	W Weed	W Weed			
Pest Code	TAROF	TAROF			
Pest Scientific Name	Taraxacum offi>	Taraxacum offi>			
Pest Name	Common dandel>	Common dandel>			
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn
Part Rated	PLOT P	PLOT P	PLOT C	PLOT C	PLOT C
Rating Date	7/21/09	8/12/09	11/11/09	11/11/09	11/11/09
Rating Type	CONTRO	CONTRO	MOICON	YIELD	YIELD
Rating Unit	%	%	%	lb/ac	BU
Sample Size, Unit					
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	V11	R3	Mature	Mature	Mature
Crop Stage Minimum/Maximum	30-80"	8-9'			
Pest Stage Majority	ROSETT	VEG			
Pest Stage Minimum/Maximum	10-24"	10-30"			
Pest Density, Unit	20 YD2	20 YD2			
Footnote Number					
Assessed By	MK JM	MK RH	SEPAC	SEPAC	SEPAC
Rating Timing					
Days After First/Last Applic.	56 27	78 49	169 140	169 140	169 140
Trt-Eval Interval					
Plant-Eval Interval	56 DP-1	78 DP-1	169 DP-1	169 DP-1	169 DP-1
Days After Emergence	51 DE-	73 DE-	164 DE	164 DE	164 DE
Number of Decimals					1
Trt No.	Treatment	Rate	Appl		
	Name	Rate Unit	Code	9	13
1	UNTREATED	0.0 b		0.0 b	20.478 a
2	CORVUS	0.0615 lb ai/a	A	98.5 a	97.3 a
	ATRAZINE	1 lb ai/a	A		20.523 a
	CAPRENO	0.081 lb ai/a	C		19.443 a
	ATRAZINE	0.5 lb ai/a	C		
	UAN 28%	0.88 lb ai/a	C		
	COC	1 % v/v	C		56.6 a
3	CAPRENO	0.054 lb ai/a	C	98.3 a	95.5 a
	ROUNDUP POWERMAX	0.77 lb ae/a	C		21.428 a
	AMMONIUM SULFATE	17 lb/100 gal	C		13.853 a
4	CAPRENO	0.081 lb ai/a	C	96.0 a	95.8 a
	ROUNDUP POWERMAX	0.387 lb ae/a	C		21.035 a
	SUPERB HC	0.75 pt/a	C		14.198 a
	AMMONIUM SULFATE	17 lb/100 gal	C		41.3 a
5	HALEX GT	3.94 lb ai/a	B	99.5 a	98.8 a
	NIS	0.25 % v/v	B		14.558 a
	AMMONIUM SULFATE	17 lb/100 gal	B		9.390 a
6	CAPRENO	0.081 lb ai/a	B	95.5 a	98.8 a
	ATRAZINE	0.5 lb ai/a	B		21.208 a
	UAN 28%	0.88 lb ai/a	B		20.068 a
	COC	1 % v/v	B		58.2 a

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Pest Type	W Weed	W Weed			
Pest Code	TAROF	TAROF			
Pest Scientific Name	Taraxacum offi>	Taraxacum offi>			
Pest Name	Common dandelii>	Common dandelii>			
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn
Part Rated	PLOT P	PLOT P	PLOT C	PLOT C	PLOT C
Rating Date	7/21/09	8/12/09	11/11/09	11/11/09	11/11/09
Rating Type	CONTRO	CONTRO	MOICON	YIELD	YIELD
Rating Unit	%	%	%	lb/ac	BU
Sample Size, Unit					
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	V11	R3	Mature	Mature	Mature
Crop Stage Minimum/Maximum	30-80"	8-9'			
Pest Stage Majority	ROSETT	VEG			
Pest Stage Minimum/Maximum	10-24"	10-30"			
Pest Density, Unit	20 YD2	20 YD2			
Footnote Number					
Assessed By	MK JM	MK RH	SEPAC	SEPAC	SEPAC
Rating Timing					
Days After First/Last Applic.	56 27	78 49	169 140	169 140	169 140
Trt-Eval Interval					
Plant-Eval Interval	56 DP-1	78 DP-1	169 DP-1	169 DP-1	169 DP-1
Days After Emergence	51 DE-	73 DE-	164 DE	164 DE	164 DE
Number of Decimals					1
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	
					9 13 14 15 16
7	IMPACT	0.0164	lb ai/a	B	96.8 a
	ATRAZINE	0.5	lb ai/a	B	98.8 a
	UAN 28%	0.88	lb ai/a	B	20.953 a
	COC	1	% v/v	B	14.925 a
8	CAPRENO	0.081	lb ai/a	B	95.8 a
	ATRAZINE	0.5	lb ai/a	B	98.0 a
	UAN 28%	0.88	lb ai/a	B	22.400 a
	DESTINY HC	0.5	% v/v	B	15.425 a
9	LEXAR	2.22	lb ai/a	A	99.0 a
	CAPRENO	0.081	lb ai/a	C	98.5 a
	ATRAZINE	0.5	lb ai/a	C	20.263 a
	UAN 28%	0.88	lb ai/a	C	21.535 a
	COC	1	% v/v	C	63.0 a
10	UNTREATED				0.0 b
LSD (P=.05)		3.75			4.10
Standard Deviation		2.58			2.83
CV		3.32			3.62
Bartlett's X2		9.14			8.614
P(Bartlett's X2)		0.243			0.282
Replicate F		3.137			1.986
Replicate Prob(F)		0.0417			0.1399
Treatment F		1011.119			848.131
Treatment Prob(F)		0.0001			0.0001
					7.3706
					5.0797
					26.27
					54.436
					0.001*
					0.068
					11.9468
					8.2336
					60.43
					15.943
					0.069
					34.38
					23.69
					59.87
					15.899
					0.069
					3.630
					0.0254
					2.395
					0.0383