

Ohio State University
Horticulture and Crop Science

Laudis, Capreno / Corn / Distributor Packages / Efficacy HP09NARDLZ

Title No. 2:

Trial ID: 09LAUDISAMS Protocol ID: 09LAUDISAMS
Location: WESTERN BRANCH F-8 Study Director: Anthony F. Dobbels
Project ID: 09LAUDISAMS Investigator: Dr. Mark M. Loux
Sponsor Contact: Dave Lamore, Bayer CropScience

General Trial Information

Study Director: Anthony F. Dobbels **Title:** Research Associate
Investigator: Dr. Mark M. Loux

Personnel

Study Director: Anthony F. Dobbels **Title:** Research Associate
Affiliation: The Ohio State University
Address: 7721 South Charleston Pike
Location: South Charleston OH
Postal Code: 45368 **E-mail:** dobbels.1@osu.edu
Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Seed Consultants 11AQ07 **Description:** RR/LL
BBCH Scale: BCOR **Planting Date:** Apr-26-2009
Planting Method: ESTABL established **Rate, Unit:** 37097 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: SMOOTH smooth
Soil Moisture: NORMAL normal

Pest Description

- Pest 1 Type:** W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail
- Pest 2 Type:** W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed
- Pest 3 Type:** W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters
- Pest 4 Type:** W **Code:** SOLPT Solanum ptycanthum
Common Name: Eastern black nightshade
- Pest 5 Type:** W **Code:** AMARE Amaranthus retroflexus
Common Name: Redroot pigweed
- Pest 6 Type:** W **Code:** AMBEL Ambrosia artemisiifolia
Common Name: Common ragweed
- Pest 7 Type:** W **Code:** ABUTH Abutilon theophrasti
Common Name: Velvetleaf
- Pest 8 Type:** W **Code:** SIDSP Sida spinosa
Common Name: Prickly sida
- Pest 9 Type:** W **Code:** HIBTR Hibiscus trionum
Common Name: Venice mallow
- Pest10 Type:** W **Code:** POLPY Polygonum pensylvanicum
Common Name: Pennsylvania smartweed

Site and Design

Plot Width, Unit: 6.67 FT
Plot Length, Unit: 30 FT
Plot Area, Unit: 200.1 FT2
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Application Description

A

Application Date: Jun-1-2009
Time of Day: 1:00 PM
Application Method: SPRAY
Application Timing: POST
Application Placement: BROFOL
Air Temperature, Unit: 74 F
% Relative Humidity: 74
Wind Velocity, Unit: 11 MPH
Wind Direction: SE
Dew Presence (Y/N): N no
Soil Temperature, Unit: 66 F
Soil Moisture: MOIST
% Cloud Cover: 3

Crop Stage At Each Application

A

Crop 1 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: BBCH
Stage Majority, Percent: 15 100
Height, Unit: 12 IN
Height Minimum, Maximum: 11 12

Pest Stage At Each Application

A

Pest 1 Code, Type, Scale: SETFA W
Stage Majority, Percent: 13
Height, Unit: 6 IN
Height Minimum, Maximum: 4 6
Pest 2 Code, Type, Scale: AMBTR W
Stage Majority, Percent: 18 100
Height, Unit: 8 IN
Height Minimum, Maximum: 7 8
Pest 3 Code, Type, Scale: CHEAL W
Stage Majority, Percent: 16 100
Height, Unit: 4 IN
Height Minimum, Maximum: 2 4
Pest 4 Code, Type, Scale: SOLPT W
Stage Majority, Percent: 16 100
Height, Unit: 1 IN
Height Minimum, Maximum: 1 1.5
Pest 5 Code, Type, Scale: AMARE W
Stage Majority, Percent: 16 100
Height, Unit: 4 IN
Height Minimum, Maximum: 3 4
Pest 6 Code, Type, Scale: AMBEL W
Stage Majority, Percent: 14 100
Height, Unit: 3 IN
Height Minimum, Maximum: 2 3
Pest 7 Code, Type, Scale: ABUTH W
Stage Majority, Percent: 14 100
Height, Unit: 3 IN
Height Minimum, Maximum: 2 3
Pest 8 Code, Type, Scale: SIDSP W
Stage Majority, Percent: 13 100
Height, Unit: 2 IN
Height Minimum, Maximum: 1 2
Pest 9 Code, Type, Scale: HIBTR W
Stage Majority, Percent: 12 100
Height, Unit: 2 IN
Height Minimum, Maximum: 1 2
Pest10 Code, Type, Scale: POLPY W
Stage Majority, Percent: 16 100
Height, Unit: 3 IN
Height Minimum, Maximum: 2 3

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Application Equipment

A

Appl. Equipment:	BACKPACK
Equipment Type:	SPRBAC
Operating Pressure, Unit:	53 PSI
Nozzle Type:	TEEJET DG
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 IN
Boom Length, Unit:	10 FT
Boom Height, Unit:	20 IN
Ground Speed, Unit:	3 MPH
Carrier:	WATER
Spray Volume, Unit:	20 GPA
Mix Size, Unit:	3 L
Propellant:	CO2

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Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot No. Rep.	1	2	3	Notes
1	UNTREATED									101	208	309		
2	Laudis	3.5	SC	0.082	lb ai/a	3	oz/a	MIPOWE	A	102	210	301		
	Atrazine	4	F	0.5	lb ai/a	1	pt/a	MIPOWE						
	Loveland MSO	100	L	1	% v/v	1	% v/v	MIPOWE						
	N-PAK AMS	100	L	2.5	% v/v	2.5	% v/v	MIPOWE						
3	Impact	2.8	SC	0.0164	lb ai/a	0.75	oz/a	MIPOWE	A	103	204	303		
	Atrazine	4	F	0.5	lb ai/a	1	pt/a	MIPOWE						
	Loveland MSO	100	L	0.75	% v/v	0.75	% v/v	MIPOWE						
	N-PAK AMS	100	L	2.5	% v/v	2.5	% v/v	MIPOWE						
4	Capreno	3.46	SC	0.082	lb ai/a	3	oz/a	MIPOWE	A	104	209	307		
	Atrazine	4	F	0.5	lb ai/a	1	pt/a	MIPOWE						
	Loveland MSO	100	L	0.5	% v/v	0.5	% v/v	MIPOWE						
	N-PAK AMS	100	L	2.5	% v/v	2.5	% v/v	MIPOWE						
5	Laudis	3.5	SC	0.082	lb ai/a	3	oz/a	MIPOWE	A	105	203	302		
	Atrazine	4	F	0.5	lb ai/a	1	pt/a	MIPOWE						
	Loveland MSO	100	L	0.5	% v/v	0.5	% v/v	MIPOWE						
	Weather Guard Complete	100	L	2	qt/100 gal	2	qt/100 gal	MIPOWE						
6	Laudis	3.5	SC	0.082	lb ai/a	3	oz/a	MIPOWE	A	106	207	304		
	Atrazine	4	F	0.5	lb ai/a	1	pt/a	MIPOWE						
	Destiny HC	100	L	0.5	% v/v	0.5	% v/v	MIPOWE						
	Class Act NG	100	L	5	qt/100 gal	5	qt/100 gal	MIPOWE						
	Interlock	100	L	4	oz/a	4	oz/a	MIPOWE						
7	Laudis	3.5	SC	0.082	lb ai/a	3	oz/a	MIPOWE	A	107	201	308		
	Atrazine	4	F	0.5	lb ai/a	1	pt/a	MIPOWE						
	Dyne-Amic	100	L	2	qt/100 gal	2	qt/100 gal	MIPOWE						
	Request	100	L	2	qt/100 gal	2	qt/100 gal	MIPOWE						
	Grounded	100	L	1	gal/100 gal	1	gal/100 gal	MIPOWE						
8	Laudis	3.5	SC	0.082	lb ai/a	3	oz/a	MIPOWE	A	108	202	310		
	Atrazine	4	F	0.5	lb ai/a	1	pt/a	MIPOWE						
	Sundance II	100	L	1.5	pt/a	1.5	pt/a	MIPOWE						
	Array	100	G	9	lb/100 gal	9	lb/100 gal	MIPOWE						
9	Laudis	3.5	SC	0.082	lb ai/a	3	oz/a	MIPOWE	A	109	205	306		
	Atrazine	4	F	0.5	lb ai/a	1	pt/a	MIPOWE						
	Soy-Stick	100	L	1.5	pt/a	1.5	pt/a	MIPOWE						
	Guardian Plus	100	L	2	qt/a	2	qt/a	MIPOWE						
10	Laudis	3.5	SC	0.082	lb ai/a	3	oz/a	MIPOWE	A	110	206	305		
	Atrazine	4	F	0.5	lb ai/a	1	pt/a	MIPOWE						
	Persist Ultra	100	L	1.5	pt/a	1.5	pt/a	MIPOWE						
	Border Xtra	100	L	2.5	gal/100 gal	2.5	gal/100 gal	MIPOWE						

Sort Order: Replicate 1