

Ohio State University
Horticulture and Crop Science

Laudis / Corn / Deposition Aids / Efficacy HP09NARDLX

Title No. 2:

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

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: 9 IN
Height Minimum, Maximum: 8 9

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

Application Equipment

(09LAUDISDEP)

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Site Description

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	204	308	
2	Laudis	3.5	SC	0.082	lb ai/a	3	oz/a	MIPOWE	A	102	203	304	
	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	209	306	
	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	210	309	
	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	201	303	
	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					
	Compadre	100	L	1	pt/100 gal	1	pt/100 gal	MIPOWE					
6	Laudis	3.5	SC	0.082	lb ai/a	3	oz/a	MIPOWE	A	106	208	307	
	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					
	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	202	305	
	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					
	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	207	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					
	Array	100	SG	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	206	310	
	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					
	Gardian	100	L	2	qt/100 gal	2	qt/100 gal	MIPOWE					
10	Laudis	3.5	SC	0.082	lb ai/a	3	oz/a	MIPOWE	A	110	205	302	
	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					
	Border EG	100	SG	10	oz/100 gal	10	oz/100 gal	MIPOWE					

Sort Order: Replicate 1