Ohio State University
Horticulture and Crop Science

Laudis/ Corn / Oil Adjuvants / Efficacy HP09NARDLY
Title No. 2:

Trial ID:	09LAUDISADJ	Protocol ID:	09LAUDISADJ
Location:	WESTERN BRANCH F-8	Study Director:	Anthony F. Dobbels
Project ID:	09LAUDISADJ	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:** RACOBL Randomized Complete Block (RCB)

Application Description

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	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

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	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 Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot No. Rep. 1	2	3	Notes
1	UNTREATED									101	204	307	
2	Laudis	3.5	SC	0.082	lb ai/a	3	oz/a	MIPOWE	A	102	206	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	Laudis	3.5	SC	0.082	lb ai/a	3	oz/a	MIPOWE	A	103	205	309	
	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	Laudis	3.5	SC	0.082	lb ai/a	3	oz/a	MIPOWE	A	104	209	301	
	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	207	306	
	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					
	N-PAK AMS	100	L	2.5	% v/v	2.5	% v/v	MIPOWE					
6	Laudis	3.5	SC	0.082	lb ai/a	3	oz/a	MIPOWE	A	106	210	302	
	Atrazine	4	F	0.5	lb ai/a	1	pt/a	MIPOWE					
	Dyne-Amic	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					
7	Laudis	3.5	SC	0.082	lb ai/a	3	oz/a	MIPOWE	A	107	202	303	
	Atrazine	4	F	0.5	lb ai/a	1	pt/a	MIPOWE					
	Sundance II	100	L	1	% v/v	1	% v/v	MIPOWE					
	N-PAK AMS	100	L	2.5	% v/v	2.5	% v/v	MIPOWE					
8	Laudis	3.5	SC	0.082	lb ai/a	3	oz/a	MIPOWE	A	108	203	305	
	Atrazine	4	F	0.5	lb ai/a	1	pt/a	MIPOWE					
	Soy-Stick	100	L	1	% v/v	1	% v/v	MIPOWE					
	N-PAK AMS	100	L	2.5	% v/v	2.5	% v/v	MIPOWE					
9	Laudis	3.5	SC	0.082	lb ai/a	3	oz/a	MIPOWE	A	109	208	310	
	Atrazine	4	F	0.5	lb ai/a	1	pt/a	MIPOWE					
	Persist Ultra	100	L	1	% v/v	1	% v/v	MIPOWE					
	N-PAK AMS	100	L	2.5	% v/v	2.5	% v/v	MIPOWE					
10	Laudis	3.5	SC	0.082	lb ai/a	3	oz/a	MIPOWE	A	110	201	308	
	Atrazine	4	F	0.5	lb ai/a	1	pt/a	MIPOWE					
	Superb Hc	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					

Sort Order: Replicate 1