

Ohio State University
Horticulture and Crop Science

Ignite and Laudis Corn Efficacy HP09NARJNA

Title No. 2:

Trial ID: 09LLC1

Protocol ID: 09LLC1

Location: WESTERN BRANCH F-8 Study Director: Anthony F. Dobbels

Project ID: 09LLC1 Investigator: Dr. Mark M. Loux

Sponsor Contact: Dave Lamore, Bayer CropScience

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Pioneer 33W84 **Description:** RR/LL
BBCH Scale: BCOR **Planting Date:** Apr-26-2009
Planting Method: ESTABL established **Rate, Unit:** 32097 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:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters

Pest 3 Type: W **Code:** POLPY *Polygonum pensylvanicum*
Common Name: Pennsylvania smartweed

Pest 4 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Pest 5 Type: W **Code:** AMBEL *Ambrosia artemisiifolia*
Common Name: Common ragweed

Pest 6 Type: W **Code:** AMARE *Amaranthus retroflexus*
Common Name: Redroot pigweed

Pest 7 Type: W **Code:** ABUTH *Abutilon theophrasti*
Common Name: Velvetleaf

Pest 8 Type: W **Code:** HIBTR *Hibiscus trionum*
Common Name: Venice mallow

Pest 9 Type: W **Code:** CONSS *Convolvulus sp.*
Common Name: Morningglory

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

A

Application Date: May-30-2009
Time of Day: 8:00 AM
Application Method: SPRAY
Application Timing: POST
Application Placement: BROFOL
Air Temperature, Unit: 62 F
% Relative Humidity: 60
Wind Velocity, Unit: 2 MPH
Wind Direction: E
Dew Presence (Y/N): N no
Soil Temperature, Unit: 62 F
Soil Moisture: DRY
% Cloud Cover: 2

Crop Stage At Each Application

A

Crop 1 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: BBCH
Stage Majority, Percent: 14 100
Height, Unit: 5 IN
Height Minimum, Maximum: 4 6

Pest Stage At Each Application

A

Pest 1 Code, Type, Scale: SETFA W
Stage Majority, Percent: 14 100
Height, Unit: 9 in
Height Minimum, Maximum: 7 9

Pest 2 Code, Type, Scale: CHEAL W
Stage Majority, Percent: 14 100
Height, Unit: 4 in
Height Minimum, Maximum: 2 4

Pest 3 Code, Type, Scale: POLPY W
Stage Majority, Percent: 13 100
Height, Unit: 5 in
Height Minimum, Maximum: 3 5

Pest 4 Code, Type, Scale: AMBTR W
Stage Majority, Percent: 19 100
Height, Unit: 10 in
Height Minimum, Maximum: 7 10

Pest 5 Code, Type, Scale: AMBEL W
Stage Majority, Percent: 19 100
Height, Unit: 4 in
Height Minimum, Maximum: 2 4

Pest 6 Code, Type, Scale: AMARE W
Stage Majority, Percent: 16 100
Height, Unit: 6 in
Height Minimum, Maximum: 4 6

Pest 7 Code, Type, Scale: ABUTH W
Stage Majority, Percent: 13 100
Height, Unit: 4 in
Height Minimum, Maximum: 3 4

Pest 8 Code, Type, Scale: HIBTR W
Stage Majority, Percent: 14 100
Height, Unit: 3 in
Height Minimum, Maximum: 2 3

Pest 9 Code, Type, Scale: CONSS W
Stage Majority, Percent: 13 100
Height, Unit: 3 in
Height Minimum, Maximum: 2 3

Application Equipment

A

Appl. Equipment: BACKPACK
Equipment Type: SPRBAC
Operating Pressure, Unit: 53 PSI
Nozzle Type: TEEJET XR
Nozzle Size: 8002
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	305		
2	Ignite N-PAK AMS	2.34 100	EC L	0.402 2.5	lb ai/a % v/v	22 2	oz/a qt/a	MIPOWE MIPOWE	A	102	201	308		
3	Laudis Loveland MSO N-PAK AMS	3.5 100 100	SC L L	0.0547 1 2.5	lb ai/a pt/a % v/v	2 1 2	oz/a pt/a qt/a	MIPOWE MIPOWE MIPOWE	A	103	202	309		
4	Ignite Laudis N-PAK AMS	2.34 3.5 100	EC SC L	0.402 0.0547 2.5	lb ai/a lb ai/a % v/v	22 2 2	oz/a oz/a qt/a	MIPOWE MIPOWE MIPOWE	A	104	207	303		
5	Ignite Laudis Weather Guard Complete	2.34 3.5 100	EC SC L	0.402 0.0547 2	lb ai/a lb ai/a qt/100 gal	22 2 2	oz/a oz/a qt/100 gal	MIPOWE MIPOWE MIPOWE	A	105	203	301		
6	Ignite Laudis ARRAY	2.34 3.5 100	EC SC SG	0.402 0.0547 9	lb ai/a lb ai/a lb/100 gal	22 2 9	oz/a oz/a lb/100 gal	MIPOWE MIPOWE MIPOWE	A	106	205	302		
7	Ignite Laudis Class Act NG Interlock	2.34 3.5 100 100	EC SC L L	0.402 0.0547 5 4	lb ai/a lb ai/a qt/100 gal oz/a	22 2 5 4	oz/a oz/a qt/100 gal oz/a	MIPOWE MIPOWE MIPOWE MIPOWE	A	107	208	312		
8	Ignite Laudis Guardian Plus	2.34 3.5 100	EC SC L	0.402 0.0547 2.5	lb ai/a lb ai/a gal/100 gal	22 2 2.5	oz/a oz/a gal/100 gal	MIPOWE MIPOWE MIPOWE	A	108	206	307		
9	Ignite Laudis Hel-Fire Grounded	2.34 3.5 100 100	EC SC L L	0.402 0.0547 2 1	lb ai/a lb ai/a pt/100 gal gal/100 gal	22 2 2 1	oz/a oz/a pt/100 gal gal/100 gal	MIPOWE MIPOWE MIPOWE MIPOWE	A	109	210	306		
10	Ignite Laudis DoubleDown	2.34 3.5 100	EC SC L	0.402 0.0547 2.5	lb ai/a lb ai/a gal/100 gal	22 2 2.5	oz/a oz/a gal/100 gal	MIPOWE MIPOWE MIPOWE	A	110	212	304		
11	Ignite Laudis Border Xtra	2.34 3.5 100	EC SC L	0.402 0.0547 2.5	lb ai/a lb ai/a gal/100 gal	22 2 2.5	oz/a oz/a gal/100 gal	MIPOWE MIPOWE MIPOWE	A	111	209	311		
12	Ignite Laudis Bronc Max E.D.T.	2.34 3.5 100	EC SC L	0.402 0.0547 2	lb ai/a lb ai/a qt/100 gal	22 2 2	oz/a oz/a qt/100 gal	MIPOWE MIPOWE MIPOWE	A	112	211	310		

Sort Order: Replicate 1