

COMPARISONS OF ADJUVANTS ON LAUDIS EFFICACY IN CORN, 2010

Trial ID: C1210 Protocol ID: C1210
 Location: Campus Study Director: Andy Chomas
 Project ID: Investigator: Wesley Everman

General Trial Information

Study Director: Andy Chomas
Investigator: Wesley Everman

Personnel

Study Director: Andy Chomas
Investigator: Wesley Everman

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 46-61
BBCH Scale: BCOR
Planting Date: May-4-10
Rate, Unit: 30000 S/A
Row Spacing, Unit: 30 IN
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 35 FT

Pest Description

Pest 1 Type: W **Code:** ANGR
Common Name: annual grass
Pest 2 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters
Pest 3 Type: W **Code:** AMARE Amaranthus retroflexus
Common Name: Redroot pigweed
Pest 4 Type: W **Code:** AMBEL Ambrosia artemisiifolia
Common Name: Common ragweed
Pest 5 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: Velvetleaf

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 35 FT
Plot Area, Unit: 350 FT² **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOB� Randomized Complete Block (RCB)

Trial Initiation Comments:

Fall Chisel, Spring Field Cultivate X2

Soil Description

% OM: 3.8 **Texture:** L loam
pH: 6.0
Analyzed By:
 300 lbs/A 46-0-0, 125 lbs/A 19-19-19 in Row

Application Description

A
Application Date: Jun-8-10
Time of Day: 10:10 am
Application Method: SPRAY
Application Timing: POST
Application Placement: BROADC
Air Temperature, Unit: 73 F
% Relative Humidity: 68
Wind Velocity, Unit: 4 MPH
Wind Direction: SE
Soil Temperature, Unit: 62 F
Soil Moisture: 3
% Cloud Cover: 30

Crop Stage At Each Application

A
Crop 1 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: BBCH
Stage Majority, Percent: V5
Height, Unit: 15 IN
Height Minimum, Maximum: 13 15

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Pest Stage At Each Application**A**

Pest 1 Code, Type, Scale: ANGR W
Stage Majority, Percent: L4
Stage Minimum, Percent: L3
Stage Maximum, Percent: L5
Height, Unit: 7 IN
Height Minimum, Maximum: 5 10
Density, Unit: 9 FT2
Pest 2 Code, Type, Scale: CHEAL W
Stage Majority, Percent: L8
Stage Minimum, Percent: L4
Stage Maximum, Percent: L12
Height, Unit: 6 IN
Height Minimum, Maximum: 2 10
Density, Unit: 18 FT2
Pest 3 Code, Type, Scale: AMARE W
Stage Majority, Percent: L8
Stage Minimum, Percent: L6
Stage Maximum, Percent: L8
Height, Unit: 7 IN
Height Minimum, Maximum: 7 8
Density, Unit: 1 FT2
Pest 4 Code, Type, Scale: AMBEL W
Stage Majority, Percent: L6
Stage Minimum, Percent: L4
Stage Maximum, Percent: L6
Height, Unit: 8 IN
Height Minimum, Maximum: 4 8
Coverage, Unit: 15 FT2
Pest 5 Code, Type, Scale: ABUTH W
Stage Majority, Percent: L4
Stage Minimum, Percent: L3
Stage Maximum, Percent: L4
Height, Unit: 5 IN
Height Minimum, Maximum: 5 7
Coverage, Unit: 1 FT2

Application Equipment

Equipment Type: CUB
Operating Pressure, Unit: 30 PSI
Nozzle Type: FF
Nozzle Size: 8003
Nozzle Spacing, Unit: 20 IN
Boom Length, Unit: 100 IN
Boom Height, Unit: 29 IN
Ground Speed, Unit: 3.5 MPH
Carrier: WATER
Spray Volume, Unit: 20 gal/ac
Mix Size, Unit: 1 gallons

MSU Weed Science Research Program

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Pest Code	ANGR	CHEAL	AMARE	AMBEL	ABUTH	ANGR	CHEAL
Crop Code	ZEAMX						
Rating Date	Jun-22-10	Jun-22-10	Jun-22-10	Jun-22-10	Jun-22-10	Jun-22-10	Jul-6-10
Rating Type	injury	control	control	control	control	control	control
Rating Unit	%	%	%	%	%	%	%
Trt-Eval Interval	14 DAPO	14 DAPO	14 DAPO	14 DAPO	14 DAPO	14 DAPO	28 DAPO

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8
1	Non-Treated						0	0	0	0	0	0	0	0
2	Laudis	3.5	SC	3 fl oz/a		MP	0	81	98	100	100	99	72	100
	Atrazine	4	L	1 pt/a		MP								
	MSO	100	L	1 % v/v		MP								
	Ammonium Sulfate	100	DF	8.5 lb/100 gal		MP								
3	Impact	2.8	SC	0.75 fl oz/a		MP	0	90	100	98	100	99	92	100
	Atrazine	4	L	1 pt/a		MP								
	MSO	100	L	1 % v/v		MP								
	Ammonium Sulfate	100	DF	8.5 lb/100 gal		MP								
4	Capreno	3.45	SC	3 fl oz/a		MP	0	73	81	100	75	99	73	89
	Atrazine	4	L	1 pt/a		MP								
	Herbimax	100	L	1 % v/v		MP								
	Ammonium Sulfate	100	DF	8.5 lb/100 gal		MP								
5	Laudis	3.5	SC	3 fl oz/a		MP	0	68	100	100	100	98	58	100
	Atrazine	4	L	1 pt/a		MP								
	MSO	100	L	1 % v/v		MP								
	Wthr Guard Comp	100	L	2 qt/100 gal		MP								
6	Laudis	3.5	SC	3 fl oz/a		MP	0	83	100	100	100	100	74	100
	Atrazine	4	L	1 pt/a		MP								
	Destiny HC	100	L	0.5 % v/v		MP								
	Class Act Ng	100	L	5 qt/100 gal		MP								
	Interlock	100	L	4 oz/a		MP								
7	Laudis	3.5	SC	3 fl oz/a		MP	0	80	100	100	100	100	78	100
	Atrazine	4	L	1 pt/a		MP								
	Dyne-Amic	100	L	2 qt/100 gal		MP								
	Request	100	L	2 qt/100 gal		MP								
	Grounded	100	L	1 gal/100 gal		MP								
8	Laudis	3.5	SC	3 fl oz/a		MP	0	68	100	100	98	97	62	100
	Atrazine	4	L	1 pt/a		MP								
	Superspread MSO	100	L	1.5 pt/a		MP								
	Bron Max E.D.T.	100	L	2 qt/100 gal		MP								
	LSD (P=.05)						0.0	7.2	3.7	1.8	5.4	2.7	8.2	4.6
	Standard Deviation						0.0	4.1	2.1	1.0	3.1	1.5	4.7	2.7
	CV						0.0	6.06	2.49	1.17	3.67	1.79	7.34	3.08

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Pest Code	AMARE	AMBEL	ABUTH	ANGR	CHEAL	AMARE	AMBEL	ABUTH							Oct-6-10
Crop Code															
Rating Date	Jul-6-10	Jul-6-10	Jul-6-10	Jul-20-10	Jul-20-10	Jul-20-10	Jul-20-10	Jul-20-10	Jul-20-10	Jul-20-10	Jul-20-10	Jul-20-10	Jul-20-10	Jul-20-10	yield
Rating Type	control	control	control	control	control	control	control	control	control	control	control	control	control	control	bu/ac
Rating Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
Trt-Eval Interval	28 DAPO	28 DAPO	28 DAPO	42 DAPO	42 DAPO	42 DAPO	42 DAPO	42 DAPO	42 DAPO	42 DAPO	42 DAPO	42 DAPO	42 DAPO	42 DAPO	HARVEST

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	9	10	11	12	13	14	15	16	17
1	Non-Treated						0	0	0	0	0	0	0	0	29
2	Laudis	3.5	SC	3 fl oz/a	MP		100	100	100	70	100	98	100	98	224
	2 Atrazine	4	L	1 pt/a	MP										
	2 MSO	100	L	1 % v/v	MP										
	2 Ammonium Sulfate	100	DF	8.5 lb/100 gal	MP										
3	Impact	2.8	SC	0.75 fl oz/a	MP		100	100	100	93	100	98	97	100	218
	3 Atrazine	4	L	1 pt/a	MP										
	3 MSO	100	L	1 % v/v	MP										
	3 Ammonium Sulfate	100	DF	8.5 lb/100 gal	MP										
4	Capreno	3.45	SC	3 fl oz/a	MP		97	100	100	68	82	97	100	100	205
	4 Atrazine	4	L	1 pt/a	MP										
	4 Herbimax	100	L	1 % v/v	MP										
	4 Ammonium Sulfate	100	DF	8.5 lb/100 gal	MP										
5	Laudis	3.5	SC	3 fl oz/a	MP		100	100	100	45	100	100	100	100	216
	5 Atrazine	4	L	1 pt/a	MP										
	5 MSO	100	L	1 % v/v	MP										
	5 Wthr Guard Comp	100	L	2 qt/100 gal	MP										
6	Laudis	3.5	SC	3 fl oz/a	MP		100	100	100	70	97	100	100	100	223
	6 Atrazine	4	L	1 pt/a	MP										
	6 Destiny HC	100	L	0.5 % v/v	MP										
	6 Class Act Ng	100	L	5 qt/100 gal	MP										
	6 Interlock	100	L	4 oz/a	MP										
7	Laudis	3.5	SC	3 fl oz/a	MP		100	100	100	73	100	100	100	100	215
	7 Atrazine	4	L	1 pt/a	MP										
	7 Dyne-Amic	100	L	2 qt/100 gal	MP										
	7 Request	100	L	2 qt/100 gal	MP										
	7 Grounded	100	L	1 gal/100 gal	MP										
8	Laudis	3.5	SC	3 fl oz/a	MP		98	100	100	47	100	100	100	100	222
	8 Atrazine	4	L	1 pt/a	MP										
	8 Superspread MSO	100	L	1.5 pt/a	MP										
	8 Bron Max E.D.T.	100	L	2 qt/100 gal	MP										
	LSD (P=.05)						2.4	0.0	0.0	11.0	3.9	4.3	3.6	1.8	15.0
	Standard Deviation						1.4	0.0	0.0	6.3	2.2	2.5	2.0	1.0	8.5
	CV						1.6	0.0	0.0	10.77	2.61	2.85	2.34	1.17	4.4