

GROWTH REGULATOR TIMING I, 2010

Trial ID: C1510 Protocol ID: C1510
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: P37Y14
BBCH Scale: BCOR **Planting Date:** May-5-10
Rate, Unit: 30000 S/A
Row Spacing, Unit: 30 IN

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: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)

Trial Initiation Comments:
Fall Chisel, Spring Field Cultivate X2

Soil Description

% OM: 2.8 **Texture:** L loam
pH: 6.2
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: 12:20 pm
Application Method: SPRAY
Application Timing: 5-6" WDS
Application Placement: BROADC
Air Temperature, Unit: 72 F
% Relative Humidity: 59
Wind Velocity, Unit: 4 MPH
Wind Direction: S
Soil Temperature, Unit: 63 F
Soil Moisture: 3
% Cloud Cover: 100

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Crop Stage At Each Application**A**

Crop 1 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: BBCH
Stage Majority, Percent: V4
Stage Minimum, Percent: V3
Stage Maximum, Percent: V4
Height, Unit: 10 IN
Height Minimum, Maximum: 9 12

Pest Stage At Each Application**A**

Pest 1 Code, Type, Scale: ANGR W
Stage Majority, Percent: L5
Stage Minimum, Percent: L5
Stage Maximum, Percent: L7
Height, Unit: 6 IN
Height Minimum, Maximum: 5 8
Density, Unit: 7 FT2
Pest 2 Code, Type, Scale: CHEAL W
Stage Majority, Percent: L10
Stage Minimum, Percent: L6
Stage Maximum, Percent: L16
Height, Unit: 5 IN
Height Minimum, Maximum: 2 11
Density, Unit: 13 FT2
Pest 3 Code, Type, Scale: AMARE W
Stage Majority, Percent: L9
Stage Minimum, Percent: L9
Stage Maximum, Percent: L11
Height, Unit: 6 IN
Height Minimum, Maximum: 5 8
Density, Unit: 3 FT2
Pest 4 Code, Type, Scale: AMBEL W
Stage Majority, Percent: L8
Stage Minimum, Percent: L6
Stage Maximum, Percent: L10
Height, Unit: 5 IN
Height Minimum, Maximum: 5 6
Density, Unit: 8 FT2
Pest 5 Code, Type, Scale: ABUTH W
Stage Majority, Percent: L3
Stage Minimum, Percent: L3
Stage Maximum, Percent: L5
Height, Unit: 4 IN
Height Minimum, Maximum: 4 6
Density, Unit: 1 FT2

Application Equipment

Equipment Type: CUB
Operating Pressure, Unit: 30 PSI
Nozzle Type: FF
Nozzle Size: 8002
Nozzle Spacing, Unit: 20 IN
Boom Length, Unit: 100 IN
Boom Height, Unit: 21 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 15 gal/ac
Mix Size, Unit: 1 gallons

Trt No Treatment Application Comment

Treatments 9-11 were put on with BKPK

MSU Weed Science Research Program

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ANGR	CHEAL	AMARE	AMBEL	ABUTH	ANGR	CHEAL	AMARE	AMBEL
Crop Code									
Rating Date	Jun-22-10	Jun-22-10	Jun-22-10	Jun-22-10	Jun-22-10	Jun-22-10	Jun-22-10	Jun-22-10	Jun-22-10
Rating Type	control	control	control	control	control	control	control	control	control
Rating Unit	%	%	%	%	%	%	%	%	%
Trt-Eval Interval	14 DAPO	14 DAPO	14 DAPO	14 DAPO	14 DAPO	29 DAPO	29 DAPO	29 DAPO	29 DAPO

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
1	Non-Treated						0	0	0	0	0	0	0	0	0
2	Durango DMA	4 L		2 pt/a		5-6" WDS	95	91	100	99	98	91	90	100	95
	N-Pak AMS	100 L		2.5 % v/v		5-6" WDS									
3	Durango DMA	4 L		1 pt/a		5-6" WDS	83	89	100	100	99	84	98	100	98
	Weedar 64	3.8 L		1.05 pt/a		5-6" WDS									
	N-Pak AMS	100 L		2.5 % v/v		5-6" WDS									
4	Durango DMA	4 L		1.5 pt/a		5-6" WDS	98	100	100	100	100	99	100	100	100
	Weedar 64	3.8 L		1.58 pt/a		5-6" WDS									
	N-Pak AMS	100 L		2.5 % v/v		5-6" WDS									
5	Durango DMA	4 L		2 pt/a		5-6" WDS	98	99	100	100	100	95	100	100	100
	Weedar 64	3.8 L		2.1 pt/a		5-6" WDS									
	N-Pak AMS	100 L		2.5 % v/v		5-6" WDS									
6	Durango DMA	4 L		1.5 pt/a		5-6" WDS	97	98	100	100	100	99	99	100	100
	Clarity	4 L		0.5 pt/a		5-6" WDS									
	N-Pak AMS	100 L		2.5 % v/v		5-6" WDS									
7	Durango DMA	4 L		1.5 pt/a		5-6" WDS	95	100	100	99	100	96	100	100	100
	Clarity	4 L		0.75 pt/a		5-6" WDS									
	N-Pak AMS	100 L		2.5 % v/v		5-6" WDS									
8	Durango DMA	4 L		1.5 pt/a		5-6" WDS	95	98	100	99	100	100	100	100	100
	Clarity	4 L		1 pt/a		5-6" WDS									
	N-Pak AMS	100 L		2.5 % v/v		5-6" WDS									
9	GF-2666	3.9 L		2 pt/a		5-6" WDS	92	97	99	100	100	97	100	100	100
	N-Pak AMS	100 L		2.5 % v/v		5-6" WDS									
10	GF-2666	3.9 L		3 pt/a		5-6" WDS	93	93	100	100	100	97	99	100	99
	N-Pak AMS	100 L		2.5 % v/v		5-6" WDS									
11	GF-2666	3.9 L		4 pt/a		5-6" WDS	95	99	91	100	100	98	96	100	97
	N-Pak AMS	100 L		2.5 % v/v		5-6" WDS									
	LSD (P=.05)						5.4	4.3	6.2	1.4	1.7	8.7	4.4	0.0	3.2
	Standard Deviation						3.8	3.0	4.3	1.0	1.2	6.1	3.1	0.0	2.2
	CV						4.4	3.38	4.78	1.1	1.29	6.97	3.42	0.0	2.43

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Pest Type	W Weed	W Weed
Pest Code	ABUTH	DATST
Crop Code		
Rating Date	Jul-7-10	Jul-7-10
Rating Type	control	control
Rating Unit	%	%
Trt-Eval Interval	29 DAPO	29 DAPO

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	10	11
1	Non-Treated						0	0
2	Durango DMA	4 L		2 pt/a		5-6" WDS	99	94
2	N-Pak AMS	100 L		2.5 % v/v		5-6" WDS		
3	Durango DMA	4 L		1 pt/a		5-6" WDS	100	99
3	Weedar 64	3.8 L		1.05 pt/a		5-6" WDS		
3	N-Pak AMS	100 L		2.5 % v/v		5-6" WDS		
4	Durango DMA	4 L		1.5 pt/a		5-6" WDS	100	100
4	Weedar 64	3.8 L		1.58 pt/a		5-6" WDS		
4	N-Pak AMS	100 L		2.5 % v/v		5-6" WDS		
5	Durango DMA	4 L		2 pt/a		5-6" WDS	99	99
5	Weedar 64	3.8 L		2.1 pt/a		5-6" WDS		
5	N-Pak AMS	100 L		2.5 % v/v		5-6" WDS		
6	Durango DMA	4 L		1.5 pt/a		5-6" WDS	100	99
6	Clarity	4 L		0.5 pt/a		5-6" WDS		
6	N-Pak AMS	100 L		2.5 % v/v		5-6" WDS		
7	Durango DMA	4 L		1.5 pt/a		5-6" WDS	100	100
7	Clarity	4 L		0.75 pt/a		5-6" WDS		
7	N-Pak AMS	100 L		2.5 % v/v		5-6" WDS		
8	Durango DMA	4 L		1.5 pt/a		5-6" WDS	100	100
8	Clarity	4 L		1 pt/a		5-6" WDS		
8	N-Pak AMS	100 L		2.5 % v/v		5-6" WDS		
9	GF-2666	3.9 L		2 pt/a		5-6" WDS	100	99
9	N-Pak AMS	100 L		2.5 % v/v		5-6" WDS		
10	GF-2666	3.9 L		3 pt/a		5-6" WDS	100	96
10	N-Pak AMS	100 L		2.5 % v/v		5-6" WDS		
11	GF-2666	3.9 L		4 pt/a		5-6" WDS	100	94
11	N-Pak AMS	100 L		2.5 % v/v		5-6" WDS		
	LSD (P=.05)						1.6	4.9
	Standard Deviation						1.1	3.4
	CV						1.19	3.81