

COMPARISON OF GROWTH REGULATORS III, 2010

Trial ID: C1710 Protocol ID: C1710  
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:** 12:00 pm  
**Application Method:** SPRAY  
**Application Timing:** 4-6" 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:** 8 12

**Pest Stage At Each Application****A**

**Pest 1 Code, Type, Scale:** ANGR W  
**Stage Majority, Percent:** L4  
**Stage Minimum, Percent:** L3  
**Stage Maximum, Percent:** L4  
**Height, Unit:** 6 IN  
**Height Minimum, Maximum:** 5 6  
**Density, Unit:** 7 FT2  
**Pest 2 Code, Type, Scale:** CHEAL W  
**Stage Majority, Percent:** L6  
**Stage Minimum, Percent:** L4  
**Stage Maximum, Percent:** L7  
**Height, Unit:** 4 IN  
**Height Minimum, Maximum:** 1 7  
**Density, Unit:** 8 FT2  
**Pest 3 Code, Type, Scale:** AMARE W  
**Stage Majority, Percent:** L6  
**Stage Minimum, Percent:** L5  
**Stage Maximum, Percent:** L9  
**Height, Unit:** 4 IN  
**Height Minimum, Maximum:** 2 9  
**Density, Unit:** 1 FT2  
**Pest 4 Code, Type, Scale:** AMBEL W  
**Stage Majority, Percent:** L8  
**Stage Minimum, Percent:** L2  
**Stage Maximum, Percent:** L10  
**Height, Unit:** 5 IN  
**Height Minimum, Maximum:** 1 6  
**Density, Unit:** 10 FT2  
**Pest 5 Code, Type, Scale:** ABUTH W  
**Stage Majority, Percent:** L3  
**Stage Minimum, Percent:** L2  
**Stage Maximum, Percent:** L3  
**Height, Unit:** 3 IN  
**Height Minimum, Maximum:** 2 3  
**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



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Pest Type	W Weed	W Weed	W Weed	W Weed	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	Jul-7-10	Jul-7-10	Jul-7-10	Jul-7-10	Jul-7-10	Jul-7-10	Jul-7-10
Rating Type	control	control	control	control	control	control	control	control	control	control	control	control	control
Rating Unit	%	%	%	%	%	%	%	%	%	%	%	%	%
Trt-Eval Interval	14 DAPO	14 DAPO	14 DAPO	14 DAPO	14 DAPO	14 DAPO	29 DAPO	29 DAPO	29 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
17	N-Pak AMS	100	L	2.5	% v/v	4-6" WDS									
18	Ignite 280	2.34	L	22 fl oz/a		4-6" WDS	98	100	100	100	100	90	100	100	96
18	Clarity	4	L	8 fl oz/a		4-6" WDS									
18	N-Pak AMS	100	L	2.5	% v/v	4-6" WDS									
19	Ignite 280	2.34	L	22 fl oz/a		4-6" WDS	96	100	100	100	99	93	100	100	100
19	Atrazine	4	L	32 fl oz/a		4-6" WDS									
19	N-Pak AMS	100	L	2.5	% v/v	4-6" WDS									
20	Non-Treated						0	0	0	0	0	0	0	0	0
	LSD (P=.05)						7.7	10.5	14.0	7.3	5.7	13.4	8.5	4.0	7.9
	Standard Deviation						5.4	7.4	9.9	5.1	4.0	9.5	6.0	2.9	5.6
	CV						8.44	9.09	11.38	6.16	4.53	14.73	6.96	3.21	6.57

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

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	
1	Non-Treated						0
2	Durango DMA	4 L		16 fl oz/a		4-6" WDS	100
2	N-Pak AMS	100 L		2.5 % v/v		4-6" WDS	
3	Durango DMA	4 L		24 fl oz/a		4-6" WDS	100
3	N-Pak AMS	100 L		2.5 % v/v		4-6" WDS	
4	Durango DMA	4 L		32 fl oz/a		4-6" WDS	100
4	N-Pak AMS	100 L		2.5 % v/v		4-6" WDS	
5	Durango DMA	4 L		48 fl oz/a		4-6" WDS	100
5	N-Pak AMS	100 L		2.5 % v/v		4-6" WDS	
6	Weedar 64	3.8 L		16.8 fl oz/a		4-6" WDS	100
6	N-Pak AMS	100 L		2.5 % v/v		4-6" WDS	
7	Weedar 64	3.8 L		25.2 fl oz/a		4-6" WDS	100
7	N-Pak AMS	100 L		2.5 % v/v		4-6" WDS	
8	Weedar 64	3.8 L		33.6 fl oz/a		4-6" WDS	100
8	N-Pak AMS	100 L		2.5 % v/v		4-6" WDS	
9	Weedar 64	3.8 L		16.8 fl oz/a		4-6" WDS	100
9	Durango DMA	4 L		16 fl oz/a		4-6" WDS	
9	N-Pak AMS	100 L		2.5 % v/v		4-6" WDS	
10	Weedar 64	3.8 L		25.2 fl oz/a		4-6" WDS	99
10	Durango DMA	4 L		24 fl oz/a		4-6" WDS	
10	N-Pak AMS	100 L		2.5 % v/v		4-6" WDS	
11	Weedar 64	3.8 L		33.36 fl oz/a		4-6" WDS	100
11	Durango DMA	4 L		32 fl oz/a		4-6" WDS	
11	N-Pak AMS	100 L		2.5 % v/v		4-6" WDS	
12	Clarity	4 L		8 fl oz/a		4-6" WDS	98
12	N-Pak AMS	100 L		2.5 % v/v		4-6" WDS	
13	Clarity	4 L		16 fl oz/a		4-6" WDS	100
13	N-Pak AMS	100 L		2.5 % v/v		4-6" WDS	
14	Clarity	4 L		8 fl oz/a		4-6" WDS	100
14	Durango DMA	4 L		24 fl oz/a		4-6" WDS	
14	N-Pak AMS	100 L		2.5 % v/v		4-6" WDS	
15	Clarity	4 L		16 fl oz/a		4-6" WDS	100
15	Durango DMA	4 L		24 fl oz/a		4-6" WDS	
15	N-Pak AMS	100 L		2.5 % v/v		4-6" WDS	
16	Ignite 280	2.34 L		22 fl oz/a		4-6" WDS	73
16	N-Pak AMS	100 L		2.5 % v/v		4-6" WDS	
17	Ignite 280	2.34 L		22 fl oz/a		4-6" WDS	100
17	Weedar 64	3.8 L		25.2 fl oz/a		4-6" WDS	

