

WEED CONTROL IN CORN WITH PRE FOLLOWED BY POST HERBICIDES, 2010

Trial ID: C1310 Protocol ID: C1310
 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

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	B
Application Date:	May-4-10	Jun-4-10
Time of Day:	9:50 pm	9:30 am
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROADC	BROADC
Air Temperature, Unit:	77 F	70 F
% Relative Humidity:	31	80
Wind Velocity, Unit:	7.5 MPH	2.5 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	65 F	70 F
Soil Moisture:	4	2
% Cloud Cover:	10	100

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V4
Height, Unit:		10 IN
Height Minimum, Maximum:		8 10

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Pest Stage At Each Application

	A		B	
Pest 1 Code, Type, Scale:	ANGR	W	ANGR	W
Stage Majority, Percent:			L2	
Stage Minimum, Percent:			L1	
Stage Maximum, Percent:			L4	
Height, Unit:			1	IN
Height Minimum, Maximum:			0.25	3
Pest 2 Code, Type, Scale:	CHEAL	W	CHEAL	W
Stage Majority, Percent:			L4	
Stage Minimum, Percent:			L4	
Stage Maximum, Percent:			L6	
Height, Unit:			1	IN
Height Minimum, Maximum:			1	3
Pest 3 Code, Type, Scale:	AMARE	W	AMARE	W
Stage Majority, Percent:			L2	
Stage Minimum, Percent:			L2	
Stage Maximum, Percent:			L4	
Height, Unit:			0.25	IN
Height Minimum, Maximum:			0.25	1
Pest 4 Code, Type, Scale:	AMBEL	W	AMBEL	W
Stage Majority, Percent:			L4	
Stage Minimum, Percent:			L2	
Stage Maximum, Percent:			L4	
Height, Unit:			1	IN
Height Minimum, Maximum:			0.25	2
Pest 5 Code, Type, Scale:	ABUTH	W	ABUTH	W
Stage Majority, Percent:			L3	
Stage Minimum, Percent:			L2	
Stage Maximum, Percent:			L3	
Height, Unit:			1.5	IN
Height Minimum, Maximum:			1	1.5

Application Equipment

	B			
Equipment Type:	BKPK		CUB	
Operating Pressure, Unit:	30	PSI	30	PSI
Nozzle Type:	FF		FF	
Nozzle Size:	8003		8003	
Nozzle Spacing, Unit:	20	IN	20	IN
Boom Length, Unit:	100	IN	100	IN
Boom Height, Unit:	18	IN	22	IN
Ground Speed, Unit:	3.5	MPH	3.5	MPH
Carrier:	WATER		WATER	
Spray Volume, Unit:	20	gal/ac	20	gal/ac
Mix Size, Unit:	1	gallons	1	gallons

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Pest Type	W	Weed	W	Weed	W	Weed	W	Weed	W	Weed		
Pest Code		ANGR	CHEAL	AMARE	AMBEL	ABUTH						
Crop Code	ZEAMX										ZEAMX	ZEAMX
Rating Date	Jun-4-10	Jun-4-10	Jun-4-10	Jun-4-10	Jun-4-10	Jun-4-10	Jun-4-10	Jun-11-10	Jun-25-10			
Rating Type	injury	control	control	control	control	control	control	injury	injury			
Rating Unit	%	%	%	%	%	%	%	%	%			
Trt-Eval Interval	AT MP	AT MP	AT MP	AT MP	AT MP	AT MP	AT MP	7 DAMP	21 DAPO			

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8
	LSD (P=.05)						0.0	2.6	7.5	0.0	5.3	8.7	3.3	0.0
	Standard Deviation						0.0	1.6	4.4	0.0	3.2	5.1	1.9	0.0
	CV						0.0	1.72	4.96	0.0	3.97	6.58	138.96	0.0

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Pest Code	ANGR	CHEAL	AMARE	AMBEL	ABUTH	ANGR	CHEAL	AMARE	
Crop Code									
Rating Date	Jun-25-10	Jun-25-10	Jun-25-10	Jun-25-10	Jun-25-10	Aug-2-10	Aug-2-10	Aug-2-10	
Rating Type	control	control	control	control	control	control	control	control	
Rating Unit	%	%	%	%	%	%	%	%	
Trt-Eval Interval	21 DAPO	21 DAPO	21 DAPO	21 DAPO	21 DAPO	60 DAMP	60 DAMP	60 DAMP	

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	9	10	11	12	13	14	15	16
	LSD (P=.05)						1.0	2.4	0.9	3.3	2.7	2.9	4.8	0.0
	Standard Deviation						0.6	1.4	0.5	1.9	1.6	1.7	2.8	0.0
	CV						0.61	1.54	0.56	2.14	1.75	1.89	3.15	0.0

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Pest Type	W Weed	W Weed
Pest Code	AMBEL	ABUTH
Crop Code		
Rating Date	Aug-2-10	Aug-2-10
Rating Type	control	control
Rating Unit	%	%
Trt-Eval Interval	60 DAMP	60 DAMP

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Growth Stage	17	18	19
1	Bicep II Magnum	5.5 L		1.3 qt/a		PRE	100	100	
1	Halex GT	4.39 L		3.6 pt/a		MP			
1	N-Pak AMS	100 L		2.5 % v/v		MP			
1	Activator 90	100 L		0.25 % v/v		MP			
2	Guardsman Max	5 L		2.5 pt/a		PRE	95	100	
2	Roundup PowerMAX	4.5 L		22 fl oz/a		MP			
2	Status	56 DF		2.5 oz/a		MP			
2	N-Pak AMS	100 L		2.5 % v/v		MP			
3	Lexar	3.7 L		1.5 qt/a		PRE	100	100	
3	Halex GT	4.39 L		3.6 pt/a		MP			
3	N-Pak AMS	100 L		2.5 % v/v		MP			
3	Activator 90	100 L		0.25 % v/v		MP			
4	Harness Xtra 5.6	5.6 L		1.5 qt/a		PRE	97	100	
4	Roundup PowerMAX	4.5 L		22 fl oz/a		MP			
4	N-Pak AMS	100 L		2.5 % v/v		MP			
4	Northstar	47.4 WG		2.5 oz/a		MP			
4	Activator 90	100 L		0.25 % v/v		MP			
5	Harness	7 L		1.25 pt/a		PRE	100	100	
5	Capreno	3.45 SC		3 fl oz/a		MP			
5	Touchdown Total	4.17 L		24 fl oz/a		MP			
5	N-Pak AMS	100 L		2.5 % v/v		MP			
6	Lumax	3.94 SE		1.5 qt/a		PRE	98	100	
6	Touchdown Total	4.17 L		24 fl oz/a		MP			
6	N-Pak AMS	100 L		2.5 % v/v		MP			
7	Lumax	3.94 SE		1.5 qt/a		PRE	100	100	
7	Halex GT	4.39 L		3.6 pt/a		MP			
7	N-Pak AMS	100 L		2.5 % v/v		MP			
7	Activator 90	100 L		0.25 % v/v		MP			
8	Keystone	5.25 L		2 qt/a		PRE	85	88	
8	Durango DMA	4 L		24 fl oz/a		MP			
8	N-Pak AMS	100 L		2.5 % v/v		MP			
9	Bicep Lite II Magnum	6 L		1 qt/a		PRE	100	100	
9	Halex GT	4.39 L		3.6 pt/a		MP			
9	N-Pak AMS	100 L		2.5 % v/v		MP			
9	Activator 90	100 L		0.25 % v/v		MP			
10	Harness	7 L		1.25 pt/a		PRE	100	100	
10	Laudis	3.5 SC		3 fl oz/a		MP			
10	Touchdown Total	4.17 L		24 fl oz/a		MP			
10	N-Pak AMS	100 L		2.5 % v/v		MP			
11	Harness	7 L		1.25 pt/a		PRE	100	100	
11	Impact	2.8 SC		0.75 fl oz/a		MP			
11	Touchdown Total	4.17 L		24 fl oz/a		MP			
11	N-Pak AMS	100 L		2.5 % v/v		MP			
12	Non-Treated						0	0	

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Pest Type	W Weed	W Weed
Pest Code	AMBEL	ABUTH
Crop Code		
Rating Date	Aug-2-10	Aug-2-10
Rating Type	control	control
Rating Unit	%	%
Trt-Eval Interval	60 DAMP	60 DAMP

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Growth Stage	17	18	19
LSD (P=.05)							3.2	3.7	.
Standard Deviation							1.9	2.2	.
CV							2.12	2.43	.