

WEED CONTROL IN CORN WITH BAS9446, 2010

Trial ID: C2210 Protocol ID: C2210
 Location: Campus C25 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-6-10
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: 30 FT
Plot Area, Unit: 300 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

Analyzed By:
 300 lbs/A 46-0-0, 125 lbs/A 19-19-19 in Row

Application Description

	A	B
Application Date:	May-6-10	May-28-10
Time of Day:	12:00 pm	9:30 am
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	EP
Application Placement:	BROADC	BROADC
Air Temperature, Unit:	61 F	75 F
% Relative Humidity:	56	55
Wind Velocity, Unit:	4.5 MPH	2 MPH
Wind Direction:	W	
Soil Temperature, Unit:	59 F	71 F
Soil Moisture:	3	5
% Cloud Cover:	80	0

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V2
Height, Unit:		5 IN
Height Minimum, Maximum:		5 6

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Pest Stage At Each Application

	A		B	
Pest 1 Code, Type, Scale:	ANGR	W	ANGR	W
Stage Majority, Percent:			L4	
Stage Minimum, Percent:			L1	
Stage Maximum, Percent:			L4	
Height, Unit:			0.5	IN
Height Minimum, Maximum:			0.25	1
Density, Unit:			44	FT2
Pest 2 Code, Type, Scale:	CHEAL	W	CHEAL	W
Stage Majority, Percent:			L4	
Height, Unit:			1	IN
Density, Unit:			2	FT2
Pest 3 Code, Type, Scale:	AMARE	W	AMARE	W
Stage Majority, Percent:			L4	
Stage Minimum, Percent:			L1	
Stage Maximum, Percent:			L6	
Height, Unit:			0.5	IN
Height Minimum, Maximum:			0.5	1
Density, Unit:			4	FT2
Pest 4 Code, Type, Scale:	AMBEL	W	AMBEL	W
Stage Majority, Percent:			L4	
Stage Minimum, Percent:			COT	
Stage Maximum, Percent:			L4	
Height, Unit:			1	IN
Height Minimum, Maximum:			0.5	1.5
Density, Unit:			20	FT2
Pest 5 Code, Type, Scale:	ABUTH	W	ABUTH	W
Stage Majority, Percent:			COT	
Stage Minimum, Percent:			COT	
Stage Maximum, Percent:			L2	
Height, Unit:			1	IN
Height Minimum, Maximum:			0.5	1.5
Density, Unit:			4	FT2

Application Equipment

	B			
Equipment Type:	CUB		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	21	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
Pest Code												ANGR
Crop Code												
Rating Date												
Rating Type												
Rating Unit												
Trt-Eval Interval												
					ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
					May-26-10	May-26-10	May-27-10	May-27-10	May-27-10	May-27-10	May-27-10	May-27-10
					# Lft row	# Rght row	injury	injury	injury	injury	control	
					number	number	%	%	%	%	%	
					20 DAPRE	20 DAPRE	21 DAPRE	21 DAPRE	21 DAPRE	21 DAPRE	21 DAPRE	21 DAPRE

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7
1	Non-Treated						52	53	0	0	0	0	0
2	BAS 94461H	85	DF	1.5	oz/a	PRE	54	52	0	0	0	0	97
3	BAS 94461H	85	DF	2	oz/a	PRE	54	54	0	0	0	0	98
4	BAS 94461H	85	DF	2.5	oz/a	PRE	50	50	0	0	0	0	96
5	Dual II Magnum	7.64	L	21.25	fl oz/a	PRE	52	53	0	0	0	0	99
6	BAS 94461H	85	DF	2	oz/a	PRE	51	53	3	3	0	0	95
6	Atrazine	4	L	39.6	fl oz/a	PRE							
7	BAS 94461H	85	DF	2.5	oz/a	PRE	51	48	0	0	0	0	98
7	Atrazine	4	L	39.6	fl oz/a	PRE							
8	Outlook	6	L	18	fl oz/a	PRE	53	53	0	0	0	0	98
9	Bicep II Magnum	5.5	L	51.2	fl oz/a	PRE	52	50	2	2	0	0	99
10	BAS 94461H	85	DF	2.5	oz/a	EP	51	48	0	0	0	0	0
10	Roundup PowerMAX	4.5	L	22	fl oz/a	EP							
10	Activator 90	100	L	0.25	% v/v	EP							
10	Ammonium Sulfate	100	DF	17	lb/100 gal	EP							
	LSD (P=.05)						4.1	4.0	3.6	3.6	0.0	0.0	2.8
	Standard Deviation						2.4	2.3	2.1	2.1	0.0	0.0	1.7
	CV						4.58	4.56	417.22	417.22	0.0	0.0	2.12

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Pest Type	W Weed	W Weed	W Weed	W Weed		W Weed	W Weed
Pest Code	CHEAL	AMARE	AMBEL	ABUTH		ANGR	CHEAL
Crop Code					ZEAMX		
Rating Date	May-27-10	May-27-10	May-27-10	May-27-10	Jun-17-10	Jun-17-10	Jun-17-10
Rating Type	control	control	control	control	injury	control	control
Rating Unit	%	%	%	%	%	%	%
Trt-Eval Interval	21 DAPRE	21 DAPRE	21 DAPRE	21 DAPRE	42 DAPRE	42 DAPRE	42 DAPRE

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	8	9	10	11	12	13	14
1	Non-Treated						0	0	0	0	0	0	0
2	BAS 94461H	85 DF		1.5 oz/a		PRE	100	100	73	85	0	88	87
3	BAS 94461H	85 DF		2 oz/a		PRE	98	100	72	83	0	86	92
4	BAS 94461H	85 DF		2.5 oz/a		PRE	100	100	82	92	0	86	95
5	Dual II Magnum	7.64 L		21.25 fl oz/a		PRE	100	100	57	70	0	98	90
6	BAS 94461H	85 DF		2 oz/a		PRE	100	100	94	91	0	88	100
6	Atrazine	4 L		39.6 fl oz/a		PRE							
7	BAS 94461H	85 DF		2.5 oz/a		PRE	100	100	93	92	0	92	98
7	Atrazine	4 L		39.6 fl oz/a		PRE							
8	Outlook	6 L		18 fl oz/a		PRE	100	100	73	62	0	100	95
9	Bicep II Magnum	5.5 L		51.2 fl oz/a		PRE	100	100	87	63	0	95	94
10	BAS 94461H	85 DF		2.5 oz/a		EP	0	0	0	0	0	99	98
10	Roundup PowerMAX	4.5 L		22 fl oz/a		EP							
10	Activator 90	100 L		0.25 % v/v		EP							
10	Ammonium Sulfate	100 DF		17 lb/100 gal		EP							
	LSD (P=.05)						1.6	0.0	13.9	16.5	0.0	7.6	9.9
	Standard Deviation						0.9	0.0	8.1	9.6	0.0	4.4	5.8
	CV						1.14	0.0	12.82	15.09	0.0	5.3	6.82

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	AMBEL	ABUTH	ANGR	CHEAL	AMARE	AMBEL
Crop Code							
Rating Date	Jun-17-10	Jun-17-10	Jun-17-10	Jun-30-10	Jun-30-10	Jun-30-10	Jun-30-10
Rating Type	control	control	control	control	control	control	control
Rating Unit	%	%	%	%	%	%	%
Trt-Eval Interval	42 DAPRE	42 DAPRE	42 DAPRE	55 DAPRE	55 DAPRE	55 DAPRE	55 DAPRE

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	15	16	17	18	19	20	21
1	Non-Treated						0	0	0	0	0	0	0
2	BAS 94461H	85	DF	1.5	oz/a	PRE	100	77	68	82	97	100	27
3	BAS 94461H	85	DF	2	oz/a	PRE	100	83	73	75	97	100	72
4	BAS 94461H	85	DF	2.5	oz/a	PRE	100	88	75	90	97	100	63
5	Dual II Magnum	7.64	L	21.25	fl oz/a	PRE	97	8	45	98	90	100	0
6	BAS 94461H	85	DF	2	oz/a	PRE	100	92	76	82	99	100	82
6	Atrazine	4	L	39.6	fl oz/a	PRE							
7	BAS 94461H	85	DF	2.5	oz/a	PRE	100	94	82	82	98	100	92
7	Atrazine	4	L	39.6	fl oz/a	PRE							
8	Outlook	6	L	18	fl oz/a	PRE	100	75	57	95	97	100	35
9	Bicep II Magnum	5.5	L	51.2	fl oz/a	PRE	100	56	53	95	99	98	36
10	BAS 94461H	85	DF	2.5	oz/a	EP	100	99	98	97	95	99	99
10	Roundup PowerMAX	4.5	L	22	fl oz/a	EP							
10	Activator 90	100	L	0.25	% v/v	EP							
10	Ammonium Sulfate	100	DF	17	lb/100 gal	EP							
	LSD (P=.05)						1.6	26.2	20.3	12.5	6.2	1.6	35.4
	Standard Deviation						0.9	15.3	11.9	7.3	3.6	0.9	20.5
	CV						1.02	22.76	18.89	9.16	4.14	1.05	40.58

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Pest Type W Weed
 Pest Code ABUTH
 Crop Code
 Rating Date Jun-30-10
 Rating Type control
 Rating Unit %
 Trt-Eval Interval 55 DAPRE

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Growth Stage	22
1	Non-Treated						0
2	BAS 94461H	85 DF		1.5 oz/a		PRE	72
3	BAS 94461H	85 DF		2 oz/a		PRE	72
4	BAS 94461H	85 DF		2.5 oz/a		PRE	77
5	Dual II Magnum	7.64 L		21.25 fl oz/a		PRE	52
6	BAS 94461H	85 DF		2 oz/a		PRE	79
6	Atrazine	4 L		39.6 fl oz/a		PRE	
7	BAS 94461H	85 DF		2.5 oz/a		PRE	83
7	Atrazine	4 L		39.6 fl oz/a		PRE	
8	Outlook	6 L		18 fl oz/a		PRE	39
9	Bicep II Magnum	5.5 L		51.2 fl oz/a		PRE	55
10	BAS 94461H	85 DF		2.5 oz/a		EP	97
10	Roundup PowerMAX	4.5 L		22 fl oz/a		EP	
10	Activator 90	100 L		0.25 % v/v		EP	
10	Ammonium Sulfate	100 DF		17 lb/100 gal		EP	
	LSD (P=.05)						29.2
	Standard Deviation						17.0
	CV						27.26