

MSU Weed Science Research Program

WEED CONTROL IN CORN WITH BAS KIXOR, 2008

Trial ID: C1108
 Conducted: CAMPUS

Study Dir.:
 Investigator: Wesley Everman

Date Planted: 5/5/08 **Row Spacing:** 30 IN
Variety: DKC 46-60 **No. of Reps:** 3
Population: 29,000 S/A **% OM:** 3.4
Soil Type: Clay Loam **pH:** 6.6
Plot Size: 10 X 35 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: Fall Chisel, Spring Field Cultivation X2
Fertilizer: 300lbs/A 46-0-0 Broadcast. 125lbs/A 19-19-19 in Row at Planting.

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	ANGR	Annual Grass	
2.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	AMARE	PIGWEEED, REDROOT	AMARANTHUS RETROFLEXUS L.
4.	AMBEL	RAGWEEED, COMMON	AMBROSIA ELATIOR L.
5.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
Crop	Code	Common Name	
1.	ZEAMX	CORN, FIELD	

Application Description

	A	B
Application Timing:	PRE	MP
Date Treated:	5/5/08	6/16/08
Time Treated:	7:45 PM	10:30 AM
% Cloud Cover:	45	10
Air Temp., Unit:	64 F	74 F
% Relative Humidity:	25	50
Wind Speed/Unit/Dir:	4 mph W	8 mph W
Soil Temp., Unit:	67 F	64 F
Soil/Leaf Surface M:	5 5	4 4
Soil Moist (1=w 5=d):	4	5

Crop Stage at Each Application

	A	B
Crop Name:	ZEAMX	ZEAMX
Height (In.):		14-16(16)
Stage (L):		V6-(7)10L

Weed Stage at Each Application

	A	B
Weed 1 Name:	ANGR	ANGR
Height (In.):		.5-13(8)
Stage (L):		2-7(5)
Weed 2 Name:	CHEAL	CHEAL
Height (In.):		.5-7(5)
Stage (L):		2-14(12)
Weed 3 Name:	AMARE	AMARE
Height (In.):		.5-16(14)
Stage (L):		2-12(10)
Weed 4 Name:	AMBEL	AMBEL
Height (In.):		.5-10(5)
Stage (L):		2-12(8)
Weed 5 Name:	ABUTH	ABUTH
Height (In.):		.5-10(5)
Stage (L):		2-6(5)

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom			
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI
A	CUB	3.5	FF	8003	18"	20"	100"	20	H2O	30
B	CUB	3.5	FF	8003	24"	20"	100"	20	H2O	30

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Weed Code							anгр		ambel		anгр	
Crop Code							ZEAMX		ZEAMX		ZEAMX	
Rating Data Type							injury		control		control	
Rating Unit							percent		percent		percent	
Rating Date							5/19/08		5/19/08		5/19/08	
Trt-Eval Interval							14 DAPRE		14 DAPRE		28 DAPRE	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	
1	Non-Treated						0	0	0	0	0	
2	Kixor + DMTA	5.6	L	20	fl oz/a	PRE	0	100	100	0	92	
3	Kixor	2.9	L	3	fl oz/a	PRE	0	98	100	0	94	
3	Guardsman Max	5	L	56	fl oz/a	PRE						
4	Lumax	3.94	SE	80.4	fl oz/a	PRE	0	98	98	0	85	
5	Kixor + DMTA	5.6	L	13	fl oz/a	PRE	0	99	100	0	89	
5	Roundup PowerMAX	4.5	L	22	fl oz/a	MP						
5	Activator 90		L	0.25	% v/v	MP						
5	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
6	Kixor	2.9	L	2.5	fl oz/a	PRE	0	99	100	0	93	
6	Guardsman Max	5	L	40	fl oz/a	PRE						
6	Roundup PowerMAX	4.5	L	22	fl oz/a	MP						
6	Activator 90		L	0.25	% v/v	MP						
6	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
7	Harness Xtra 5.6	5.6	L	38.4	fl oz/a	PRE	0	99	98	0	89	
7	Roundup PowerMAX	4.5	L	22	fl oz/a	MP						
7	Activator 90		L	0.25	% v/v	MP						
7	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
8	Kixor + DMTA	5.6	L	13	fl oz/a	PRE	0	99	100	0	93	
8	Roundup PowerMAX	4.5	L	22	fl oz/a	MP						
8	Status	56	DF	2.5	oz/a	MP						
8	Activator 90		L	0.25	% v/v	MP						
8	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
LSD (P=.05)							0.0	1.4	1.8	0.0	6.0	
Standard Deviation							0.0	0.8	1.0	0.0	3.4	
CV							0.0	0.89	1.19	0.0	4.33	

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Weed Code							cheal	amare	ambel	abuth	ZEAMX	
Crop Code												injury
Rating Data Type							control	control	control	control		percent
Rating Unit							percent	percent	percent	percent		percent
Rating Date							6/2/08	6/2/08	6/2/08	6/2/08		6/16/08
Trt-Eval Interval							28 DAPRE	28 DAPRE	28 DAPRE	28 DAPRE		AT MP
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	6	7	8	9	10	
1	Non-Treated						0	0	0	0	0	
2	Kixor + DMTA	5.6	L	20	fl oz/a	PRE	98	100	88	93	0	
3	Kixor	2.9	L	3	fl oz/a	PRE	98	100	92	93	0	
3	Guardsman Max	5	L	56	fl oz/a	PRE						
4	Lumax	3.94	SE	80.4	fl oz/a	PRE	98	100	92	98	0	
5	Kixor + DMTA	5.6	L	13	fl oz/a	PRE	93	100	88	95	0	
5	Roundup PowerMAX	4.5	L	22	fl oz/a	MP						
5	Activator 90		L	0.25	% v/v	MP						
5	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
6	Kixor	2.9	L	2.5	fl oz/a	PRE	98	100	92	92	0	
6	Guardsman Max	5	L	40	fl oz/a	PRE						
6	Roundup PowerMAX	4.5	L	22	fl oz/a	MP						
6	Activator 90		L	0.25	% v/v	MP						
6	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
7	Harness Xtra 5.6	5.6	L	38.4	fl oz/a	PRE	90	100	67	62	0	
7	Roundup PowerMAX	4.5	L	22	fl oz/a	MP						
7	Activator 90		L	0.25	% v/v	MP						
7	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
8	Kixor + DMTA	5.6	L	13	fl oz/a	PRE	97	100	90	88	0	
8	Roundup PowerMAX	4.5	L	22	fl oz/a	MP						
8	Status	56	DF	2.5	oz/a	MP						
8	Activator 90		L	0.25	% v/v	MP						
8	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
LSD (P=.05)							5.5	0.0	7.6	9.0	0.0	
Standard Deviation							3.1	0.0	4.4	5.1	0.0	
CV							3.73	0.0	5.73	6.58	0.0	

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Crop Code													ZEAMX
Rating Data Type							control	control	control	control	control		injury
Rating Unit							percent	percent	percent	percent	percent		percent
Rating Date							6/16/08	6/16/08	6/16/08	6/16/08	6/16/08		6/30/08
Trt-Eval Interval							AT MP	AT MP	AT MP	AT MP	AT MP		56 DAPRE
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	11	12	13	14	15	16	
1	Non-Treated						0	0	0	0	0	0	
2	Kixor + DMTA	5.6	L	20	fl oz/a	PRE	87	97	100	92	93	0	
3	Kixor	2.9	L	3	fl oz/a	PRE	95	97	100	97	93	0	
3	Guardsman Max	5	L	56	fl oz/a	PRE							
4	Lumax	3.94	SE	80.4	fl oz/a	PRE	89	100	100	96	100	0	
5	Kixor + DMTA	5.6	L	13	fl oz/a	PRE	82	95	100	87	88	0	
5	Roundup PowerMAX	4.5	L	22	fl oz/a	MP							
5	Activator 90		L	0.25	% v/v	MP							
5	Ammonium Sulfate	100	DF	17	lb/100 gal	MP							
6	Kixor	2.9	L	2.5	fl oz/a	PRE	84	97	100	95	87	0	
6	Guardsman Max	5	L	40	fl oz/a	PRE							
6	Roundup PowerMAX	4.5	L	22	fl oz/a	MP							
6	Activator 90		L	0.25	% v/v	MP							
6	Ammonium Sulfate	100	DF	17	lb/100 gal	MP							
7	Harness Xtra 5.6	5.6	L	38.4	fl oz/a	PRE	86	86	100	76	60	0	
7	Roundup PowerMAX	4.5	L	22	fl oz/a	MP							
7	Activator 90		L	0.25	% v/v	MP							
7	Ammonium Sulfate	100	DF	17	lb/100 gal	MP							
8	Kixor + DMTA	5.6	L	13	fl oz/a	PRE	88	84	100	92	90	0	
8	Roundup PowerMAX	4.5	L	22	fl oz/a	MP							
8	Status	56	DF	2.5	oz/a	MP							
8	Activator 90		L	0.25	% v/v	MP							
8	Ammonium Sulfate	100	DF	17	lb/100 gal	MP							
LSD (P=.05)							6.5	7.4	0.0	3.2	10.2	0.0	
Standard Deviation							3.7	4.2	0.0	1.8	5.9	0.0	
CV							4.85	5.13	0.0	2.29	7.66	0.0	

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							anqr	cheal	amare	ambel	abuth
							control	control	control	control	control
							percent	percent	percent	percent	percent
							6/30/08	6/30/08	6/30/08	6/30/08	6/30/08
							56 DAPRE	56 DAPRE	56 DAPRE	56 DAPRE	56 DAPRE
Weed Code											
Crop Code											
Rating Data Type											
Rating Unit											
Rating Date											
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	17	18	19	20	21
1	Non-Treated						0	0	0	0	0
2	Kixor + DMTA	5.6	L	20	fl oz/a	PRE	82	93	100	82	85
3	Kixor	2.9	L	3	fl oz/a	PRE	85	90	100	82	89
3	Guardsman Max	5	L	56	fl oz/a	PRE					
4	Lumax	3.94	SE	80.4	fl oz/a	PRE	74	100	100	91	100
5	Kixor + DMTA	5.6	L	13	fl oz/a	PRE	100	100	100	97	100
5	Roundup PowerMAX	4.5	L	22	fl oz/a	MP					
5	Activator 90		L	0.25	% v/v	MP					
5	Ammonium Sulfate	100	DF	17	lb/100 gal	MP					
6	Kixor	2.9	L	2.5	fl oz/a	PRE	100	100	100	100	100
6	Guardsman Max	5	L	40	fl oz/a	PRE					
6	Roundup PowerMAX	4.5	L	22	fl oz/a	MP					
6	Activator 90		L	0.25	% v/v	MP					
6	Ammonium Sulfate	100	DF	17	lb/100 gal	MP					
7	Harness Xtra 5.6	5.6	L	38.4	fl oz/a	PRE	99	100	100	98	100
7	Roundup PowerMAX	4.5	L	22	fl oz/a	MP					
7	Activator 90		L	0.25	% v/v	MP					
7	Ammonium Sulfate	100	DF	17	lb/100 gal	MP					
8	Kixor + DMTA	5.6	L	13	fl oz/a	PRE	100	100	100	100	100
8	Roundup PowerMAX	4.5	L	22	fl oz/a	MP					
8	Status	56	DF	2.5	oz/a	MP					
8	Activator 90		L	0.25	% v/v	MP					
8	Ammonium Sulfate	100	DF	17	lb/100 gal	MP					
LSD (P=.05)							2.2	3.6	0.0	6.8	5.4
Standard Deviation							1.3	2.0	0.0	3.9	3.1
CV							1.61	2.39	0.0	4.78	3.63