

MSU Weed Science Research Program

PRE FOLLOWED BY POST WITH AND WITHOUT GLYPHOSATE, 2009

Trial ID: C1609
 Conducted: CAMPUS BOX

Study Dir.: Andy Chomas
 Investigator: Wesley Everman

Date Planted: 5/7/09 **Row Spacing:** 30 IN
Variety: DEKALB 46-60 **No. of Reps:** 4
Population: 31,000 S/A **% OM:** 3.4
Soil Type: Loam **pH:** 6.2
Plot Size: 10 X 35 FT **Design:** RANDOMIZED COMPLETE BLOCK

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

Crop and Weed Description

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

Application Description

	A	B
Application Timing:	PRE	MP
Date Treated:	5/7/09	6/11/09
Time Treated:	7:30 PM	9:00 AM
% Cloud Cover:	60	100
Air Temp., Unit:	70 F	60 F
% Relative Humidity:	54	79
Wind Speed/Unit/Dir:	3 mph W	4 mph E
Soil Temp., Unit:	60 F	61 F
Soil/Leaf Surface M:		4
Soil Moist (1=w 5=d):	3	2

Crop Stage at Each Application

	A	B
Crop Name:	ZEAMX	ZEAMX
Height (In.):		5-11(7)
Stage (L):		5:V4-5(4)

Weed Stage at Each Application

	A	B
Weed 1 Name:	ANGR	ANGR
Height (In.):		.25-10(8)
Stage (L):		1-4(3)
Weed 2 Name:	CHEAL	CHEAL
Height (In.):		.25-5(2)
Stage (L):		cot-3(2)
Weed 3 Name:	AMARE	AMARE
Height (In.):		.25-9(5)
Stage (L):		cot-7(6)
Weed 4 Name:	ABUTH	ABUTH
Height (In.):		.25-5(3)
Stage (L):		cot-3(2)

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	19"	20"	100"	20	H2O	30	
B	CUB	3.5	FF	8003	22"	20"	100"	20	H2O	30	

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Crop Code							
Rating Data Type		control	control	control	control	control	control
Rating Unit		percent	percent	percent	percent	percent	percent
Rating Date		6/1/09	6/1/09	6/1/09	6/1/09	6/1/09	6/16/09
Trt-Eval Interval		25 DAPRE	25 DAPRE	25 DAPRE	25 DAPRE	25 DAPRE	AT MP
ARM Action Codes							

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	1	2	3	4	5	6	7
1	Non-Treated						0	0	0	0	0	0	0
2	Lumax	3.94	SE	2	qt/a	PRE	3	98	100	100	100	99	0
2	Touchdown Total	4.17	L	24	fl oz/a	MP							
2	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP							
3	Lexar	3.7	L	2.25	qt/a	PRE	2	90	100	100	100	97	0
3	Touchdown Total	4.17	L	24	fl oz/a	MP							
3	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP							
4	Corvus	2.6	SC	3.3	fl oz/a	PRE	2	83	100	100	100	96	0
4	Touchdown Total	4.17	L	24	fl oz/a	MP							
4	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP							
5	Balance FLEXX	2	SC	4	fl oz/a	PRE	3	89	100	100	100	98	0
5	Touchdown Total	4.17	L	24	fl oz/a	MP							
5	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP							
6	Integrity	5.6	L	13	fl oz/a	PRE	1	96	100	100	100	98	0
6	Touchdown Total	4.17	L	24	fl oz/a	MP							
6	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP							
7	SureStart	4.18	SE	1.75	pt/a	PRE	1	93	100	100	100	91	0
7	Durango DMA	4	L	25	fl oz/a	MP							
7	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP							
8	Lumax	3.94	SE	3	qt/a	PRE	2	98	100	100	100	98	0
9	Lexar	3.7	L	3.5	qt/a	PRE	0	91	100	100	100	97	0
10	Corvus	2.6	SC	5.6	fl oz/a	PRE	5	92	100	100	100	99	21
11	Integrity	5.6	L	20	fl oz/a	PRE	3	94	100	100	100	100	0
LSD (P=.05)							3.1	7.8	0.0	0.0	0.0	2.1	17.8
Standard Deviation							2.1	5.4	0.0	0.0	0.0	1.4	12.4
CV							107.38	6.45	0.0	0.0	0.0	1.62	663.33

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Crop Code						ZEAMX		
Rating Data Type	control	control	control	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent
Rating Date	6/16/09	6/16/09	6/16/09	6/16/09	6/16/09	6/30/09	6/30/09	6/30/09
Trt-Eval Interval	AT MP	AT MP	AT MP	AT MP	AT MP	56 DAPRE	56 DAPRE	56 DAPRE
ARM Action Codes								

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	8	9	10	11	12	13	14	15
1	Non-Treated						0	0	0	0	0	0	0	0
2	Lumax	3.94	SE	2	qt/a	PRE	97	100	100	100	100	0	96	100
2	Touchdown Total	4.17	L	24	fl oz/a	MP								
2	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
3	Lexar	3.7	L	2.25	qt/a	PRE	94	100	100	100	100	0	93	100
3	Touchdown Total	4.17	L	24	fl oz/a	MP								
3	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
4	Corvus	2.6	SC	3.3	fl oz/a	PRE	93	100	100	100	99	0	83	99
4	Touchdown Total	4.17	L	24	fl oz/a	MP								
4	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
5	Balance FLEXX	2	SC	4	fl oz/a	PRE	87	100	100	100	99	0	78	93
5	Touchdown Total	4.17	L	24	fl oz/a	MP								
5	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
6	Integrity	5.6	L	13	fl oz/a	PRE	95	100	100	100	98	0	88	98
6	Touchdown Total	4.17	L	24	fl oz/a	MP								
6	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
7	SureStart	4.18	SE	1.75	pt/a	PRE	94	100	100	100	94	0	86	99
7	Durango DMA	4	L	25	fl oz/a	MP								
7	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
8	Lumax	3.94	SE	3	qt/a	PRE	92	100	100	100	100	0	85	100
9	Lexar	3.7	L	3.5	qt/a	PRE	91	100	100	100	100	0	78	100
10	Corvus	2.6	SC	5.6	fl oz/a	PRE	98	100	100	100	100	0	79	100
11	Integrity	5.6	L	20	fl oz/a	PRE	89	98	100	100	100	0	77	93
LSD (P=.05)							6.4	1.3	0.0	0.0	4.6	0.0	7.4	4.0
Standard Deviation							4.5	0.9	0.0	0.0	3.2	0.0	5.1	2.8
CV							5.28	0.96	0.0	0.0	3.56	0.0	6.69	3.1

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Weed Code	AMARE	ABUTH	
Crop Code			ZEAMX
Rating Data Type	control	control	yield
Rating Unit	percent	percent	bu/ac
Rating Date	6/30/09	6/30/09	11/4/09
Trt-Eval Interval	56 DAPRE	56 DAPRE	HARVEST

ARM Action Codes

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	16	17	18
1	Non-Treated						0	0	83
2	Lumax	3.94	SE	2	qt/a	PRE	100	100	247
2	Touchdown Total	4.17	L	24	fl oz/a	MP			
2	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP			
3	Lexar	3.7	L	2.25	qt/a	PRE	100	100	250
3	Touchdown Total	4.17	L	24	fl oz/a	MP			
3	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP			
4	Corvus	2.6	SC	3.3	fl oz/a	PRE	100	99	246
4	Touchdown Total	4.17	L	24	fl oz/a	MP			
4	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP			
5	Balance FLEXX	2	SC	4	fl oz/a	PRE	96	99	247
5	Touchdown Total	4.17	L	24	fl oz/a	MP			
5	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP			
6	Integrity	5.6	L	13	fl oz/a	PRE	100	98	248
6	Touchdown Total	4.17	L	24	fl oz/a	MP			
6	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP			
7	SureStart	4.18	SE	1.75	pt/a	PRE	100	94	244
7	Durango DMA	4	L	25	fl oz/a	MP			
7	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP			
8	Lumax	3.94	SE	3	qt/a	PRE	100	100	247
9	Lexar	3.7	L	3.5	qt/a	PRE	100	100	240
10	Corvus	2.6	SC	5.6	fl oz/a	PRE	100	100	202
11	Integrity	5.6	L	20	fl oz/a	PRE	99	94	239

LSD (P=.05)	1.5	6.1	32.3
Standard Deviation	1.0	4.2	22.4
CV	1.16	4.75	9.89