

MSU Weed Science Research Program

WEED CONTROL PROGRAMS COMPARISON, 2007

Trial ID: C0107  
 Conducted: CAMPUS

Study Dir.:  
 Investigator: James Kells

**Date Planted:** 5/7/07                      **Row Spacing:** 30 IN  
**Variety:** Pioneer 38B86                      **No. of Reps:** 6  
**Population:** 29,500 S/A                      **% OM:** 3.3  
**Soil Type:** Sandy Loam                      **pH:** 6.5  
**Plot Size:** 10 X 35 FT                      **Design:** RANDOMIZED COMPLETE BLOCK

**Tillage:** Fall Chisel, Spring Field Cultivated 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.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
Crop	Code	Common Name	
1.	ZEAMX	CORN, FIELD	

**Application Description**

	A	B	C	D
<b>Application Timing:</b>	PRE	EP	MP	LP
<b>Date Treated:</b>	5/8/07	5/24/07	6/1/07	6/11/07
<b>Time Treated:</b>	6:45AM	9:03AM	4:00PM	10:50AM
<b>% Cloud Cover:</b>	5	5	40	0
<b>Air Temp., Unit:</b>	60 F	77 F	83 F	89 F
<b>% Relative Humidity:</b>	67	48	55	40
<b>Wind Speed/Unit/Dir:</b>	1 mph SE	4 mph SW	6 mph S	5 mph N
<b>Soil Temp., Unit:</b>	54 F	66.2 F	75.9 F	73.5 F
<b>Soil/Leaf Surface M:</b>	5 5	5 5	5 5	5 5
<b>Soil Moist (1=w 5=d):</b>	5	4	4	4

**Crop Stage at Each Application**

	A	B	C	D
<b>Crop Name:</b>	ZEAMX	ZEAMX	ZEAMX	ZEAMX
<b>Height (In.):</b>		3-4(4)	8-12(10)	18-22(20)
<b>Stage (L):</b>		V1-2(2)4L	V3-5(4)7L	V6 9L

**Weed Stage at Each Application**

	A	B	C	D
<b>Weed 1 Name:</b>	ANGR	ANGR	ANGR	ANGR
<b>Height (In.):</b>		.25-1.5	1-7(5)	2
<b>Stage (L):</b>		1-3(2)	2-6(5)	3
<b>Weed 2 Name:</b>	CHEAL	CHEAL	CHEAL	CHEAL
<b>Height (In.):</b>		.25-1(.25)	.25-3(1.5)	.25
<b>Stage (L):</b>		Cot-4(2)	Cot-8(6)	cot
<b>Weed 3 Name:</b>	AMARE	AMARE	AMARE	AMARE
<b>Height (In.):</b>		.25-1(.25)	.5-5(1.5)	1
<b>Stage (L):</b>		Cot-4(2)	Cot-7(5)	Cot
<b>Weed 4 Name:</b>	ABUTH	ABUTH	ABUTH	ABUTH
<b>Height (In.):</b>		.5-1(.5)	.5-2(1.5)	.5
<b>Stage (L):</b>		Cot-1(1)	Cot-3(3)	Cot

**Weed Density (plants/sq. ft.)**

	1	2	3	4
<b>Date:</b>	5/8/07	5/24/07	6/1/07	
<b>Weed Name:</b>	ANGR	ANGR	ANGR	
<b>Density:</b>		26	26	
<b>Date:</b>	5/8/07	5/24/07	6/1/07	
<b>Weed Name:</b>	CHEAL	CHEAL	CHEAL	
<b>Density:</b>		18	61	
<b>Date:</b>	5/8/07	5/24/07	6/1/07	
<b>Weed Name:</b>	AMARE	AMARE	AMARE	
<b>Density:</b>		<1	2	
<b>Date:</b>	5/8/07	5/24/07	6/1/07	
<b>Weed Name:</b>	ABUTH	ABUTH	ABUTH	
<b>Density:</b>		<1	1	

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**Application Equipment**

<b>Appl</b>	<b>Sprayer</b>	<b>Speed</b>	<b>Nozzle</b>	<b>Nozzle</b>	<b>Nozzle</b>	<b>Nozzle</b>	<b>Boom</b>			
	<b>Type</b>	<b>MPH</b>	<b>Type</b>	<b>Size</b>	<b>Height</b>	<b>Spacing</b>	<b>Width</b>	<b>GPA</b>	<b>Carrier</b>	<b>PSI</b>
<b>A</b>	CUB	3.5	FF	8003	18"	20"	100"	20	H2O	30
<b>B</b>	CUB	3.5	FF	8003	19"	20"	100"	20	H2O	30
<b>C</b>	CUB	3.5	FF	8003	24"	20"	100"	20	H2O	30
<b>D</b>	CUB	3.5	FF	8003	30"	20"	100"	20	H2O	30





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Weed Code			ANGR	CHEAL	AMARE	ABUTH			ANGR					
Crop Code			ZEAMX				ZEAMX	ZEAMX						
Rating Data Type			injury	control	control	control	injury	injury	control					
Rating Unit			percent	percent	percent	percent	percent	percent	percent					
Rating Date			6/1/07	6/1/07	6/1/07	6/1/07	6/8/07	6/15/07	6/15/07					
Trt-Eval Interval			AT MP	AT MP	AT MP	AT MP	7 DAMP	14 DAMP	14 DAMP					
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	1	2	3	4	5	6	7	8
LSD (P=.05)							0.5	5.4	3.5	1.0	6.3	0.7	0.0	3.6
Standard Deviation							0.4	4.7	3.0	0.9	5.5	0.6	0.0	3.2
CV							1254.03	5.17	3.24	0.95	6.35	173.81	0.0	3.36

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Weed Code		CHEAL	AMARE	ABUTH	ANGR	CHEAL	AMARE	ABUTH					
Crop Code													
Rating Data Type		control	control	control	control	control	control	control					
Rating Unit		percent	percent	percent	percent	percent	percent	percent					
Rating Date		6/15/07	6/15/07	6/15/07	6/29/07	6/29/07	6/29/07	6/29/07					
Trt-Eval Interval		14 DAMP	14 DAMP	14 DAMP	28 DAMP	28 DAMP	28 DAMP	28 DAMP					
Trt No.	Treatment	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	9	10	11	12	13	14	15
1	Bicep Lite II Magnum	6	L	1.5	pt/a	PRE	100	100	100	94	97	99	98
1	Impact	2.8	SC	0.5	fl oz/a	MP							
1	Atrazine	4	L	1	pt/a	MP							
1	MSO		L	1	% v/v	MP							
1	28% Nitrogen		L	2.5	% v/v	MP							
2	Weed Free						100	100	100	100	100	100	100
3	Lexar	3.7	L	3.5	qt/a	PRE	100	100	100	93	100	100	99
4	Keystone	5.25	L	1.2	qt/a	EP	100	100	100	96	100	100	96
4	Durango	5.4	L	1.5	pt/a	EP							
4	Yukon	67.5	WG	4	oz/a	EP							
4	Activator 90		L	0.125	% v/v	EP							
5	Roundup OriginalMax	4.5	L	22	fl oz/a	MP	100	100	100	95	100	100	99
5	Ammonium Sulfate		DF	17	lb/100 gal	MP							
5	Roundup OriginalMax	4.5	L	22	fl oz/a	LP							
5	Ammonium Sulfate		DF	17	lb/100 gal	LP							
6	Camix	3.67	SE	1.3	qt/a	EP	100	100	99	93	99	100	100
6	Touchdown Total	4.17	L	32	fl oz/a	EP							
6	Ammonium Sulfate		DF	17	lb/100 gal	EP							
7	Guardsman Max	5	L	2.5	pt/a	PRE	97	100	98	90	85	100	94
7	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
7	Ammonium Sulfate		DF	8.5	lb/100 gal	MP							
8	Keystone	5.25	L	2.4	qt/a	PRE	100	100	99	96	100	100	97
8	Hornet 78.5 WDG	78.5	WG	3	oz/a	PRE							
9	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	99	100	98	93	90	99	98
9	Roundup OriginalMax	4.5	L	22	fl oz/a	MP							
9	Ammonium Sulfate		DF	17	lb/100 gal	MP							
10	Keystone	5.25	L	1.3	qt/a	PRE	100	100	100	95	99	100	99
10	Durango	5.4	L	1.5	pt/a	MP							
10	Yukon	67.5	WG	4	oz/a	MP							
10	Activator 90		L	0.125	% v/v	MP							
11	Degree Xtra	4	L	2	qt/a	PRE	100	100	99	97	93	100	95
11	Roundup OriginalMax	4.5	L	22	fl oz/a	MP							
11	Ammonium Sulfate		DF	17	lb/100 gal	MP							
12	Laudis	3.5	SC	3	fl oz/a	EP	100	100	100	78	100	100	100
12	Atrazine	4	L	1	qt/a	EP							
12	MSO		L	1	% v/v	EP							
12	28% Nitrogen		L	1.5	qt/a	EP							
13	BreakFree ATZ	5.25	L	2.6	qt/a	PRE	100	100	90	97	99	100	88
13	Resolve	25	WG	1	oz/a	PRE							
14	Label Pending						100	100	97	82	96	100	89
15	Liberty	1.67	L	32	fl oz/a	MP	100	100	100	85	95	100	98
15	Atrazine	4	L	1	qt/a	MP							
15	Ammonium Sulfate		DF	3	lb/a	MP							

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Weed Code							CHEAL	AMARE	ABUTH	ANGR	CHEAL	AMARE	ABUTH
Crop Code													
Rating Data Type							control	control	control	control	control	control	control
Rating Unit							percent	percent	percent	percent	percent	percent	percent
Rating Date							6/15/07	6/15/07	6/15/07	6/29/07	6/29/07	6/29/07	6/29/07
Trt-Eval Interval							14 DAMP	14 DAMP	14 DAMP	28 DAMP	28 DAMP	28 DAMP	28 DAMP
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	9	10	11	12	13	14	15
16	Bicep Lite II Magnum	6	L	1.5	pt/a	PRE	100	100	99	95	98	100	100
16	Impact	2.8	SC	0.5	fl oz/a	MP							
16	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
16	Atrazine	4	L	1	pt/a	MP							
16	Ammonium Sulfate		DF	8.5	lb/100 gal	MP							
17	Lumax	3.94	SE	2.25	qt/a	PRE	100	100	100	98	98	100	100
17	Touchdown Total	4.17	L	24	fl oz/a	MP							
17	Ammonium Sulfate		DF	17	lb/100 gal	MP							
18	Atrazine	4	L	1.5	qt/a	PRE	100	100	100	90	100	100	98
18	Option	35	WG	1.5	oz/a	MP							
18	Yukon	67.5	WG	4	oz/a	MP							
18	MSO		L	1.5	pt/a	MP							
18	Ammonium Sulfate		DF	1	% w/w	MP							
19	Guardman Max	5	L	4	pt/a	PRE	100	100	97	95	95	100	99
19	Status	61.1	WG	5	oz/a	MP							
19	Activator 90		L	0.25	% v/v	MP							
19	Ammonium Sulfate		DF	5	lb/100 gal	MP							
20	Define SC	4	SC	12	fl oz/a	PRE	100	100	99	95	98	100	99
20	Liberty	1.67	L	32	fl oz/a	MP							
20	Atrazine	4	L	1	pt/a	MP							
20	Ammonium Sulfate		DF	3	lb/a	MP							
21	Label Pending						100	100	98	96	100	100	100
22	Atrazine	4	L	1	qt/a	PRE	100	100	100	71	99	100	100
22	Laudis	3.5	SC	3	fl oz/a	MP							
22	MSO		L	1	% v/v	MP							
22	28% Nitrogen		L	1.5	qt/a	MP							
23	Keystone	5.25	L	1.3	qt/a	PRE	97	100	99	85	86	100	97
23	Durango	5.4	L	1.5	pt/a	MP							
23	Ammonium Sulfate		DF	1.5	% w/w	MP							
24	Resolve	25	WG	1	oz/a	PRE	99	100	98	86	84	98	95
24	Atrazine	4	L	1.5	pt/a	PRE							
24	Roundup OriginalMax	4.5	L	22	fl oz/a	MP							
24	Ammonium Sulfate		DF	17	lb/100 gal	MP							
25	Degree Xtra	4	L	2	qt/a	EP	94	100	94	93	91	100	93
25	Roundup OriginalMax	4.5	L	22	fl oz/a	EP							
25	Ammonium Sulfate		DF	17	lb/100 gal	EP							
26	SureStart	4.16	EW	1.75	pt/a	PRE	100	100	100	92	99	100	100
26	Duramax DMA	5.4	L	1.5	pt/a	MP							
26	Ammonium Sulfate		DF	1.5	% w/w	MP							
27	Lumax	3.94	SE	2.5	qt/a	PRE	100	100	100	90	98	100	99
27	Atrazine	4	L	1	qt/a	PRE							
28	Weedy						0	0	0	0	0	0	0
29	Keystone	5.25	L	1.8	qt/a	PRE	100	100	99	92	100	100	100
29	Yukon	67.5	WG	4	oz/a	MP							
29	Herbimax		L	1	% v/v	MP							
30	Roundup WeatherMax	4.5	L	22	fl oz/a	EP	68	75	73	59	53	89	58
30	Status	61.1	WG	2.5	oz/a	EP							
30	Ammonium Sulfate		DF	8.5	lb/100 gal	EP							

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Crop Code							
Rating Data Type	control	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Rating Date	6/15/07	6/15/07	6/15/07	6/29/07	6/29/07	6/29/07	6/29/07
Trt-Eval Interval	14 DAMP	14 DAMP	14 DAMP	28 DAMP	28 DAMP	28 DAMP	28 DAMP
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	
						9	10
						11	12
						13	14
						15	
LSD (P=.05)	2.5	3.7	2.6	6.0	5.3	1.0	4.2
Standard Deviation	2.2	3.3	2.3	5.2	4.6	0.9	3.7
CV	2.29	3.42	2.41	5.99	5.04	0.89	3.94



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Weed Code	ANGR	CHEAL	AMARE	ABUTH	
Crop Code					Zeamx
Rating Data Type	control	control	control	control	yield
Rating Unit	percent	percent	percent	percent	bu/ac
Rating Date	8/8/07	8/8/07	8/8/07	8/8/07	10/3/07
Trt-Eval Interval	68 DAMP	68 DAMP	68 DAMP	68 DAMP	HARVEST

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	16	17	18	19	20
1	Bicep Lite II Magnum	6	L	1.5	pt/a	PRE	87	90	100	99	193
1	Impact	2.8	SC	0.5	fl oz/a	MP					
1	Atrazine	4	L	1	pt/a	MP					
1	MSO		L	1	% v/v	MP					
1	28% Nitrogen		L	2.5	% v/v	MP					
2	Weed Free						100	100	100	100	198
3	Lexar	3.7	L	3.5	qt/a	PRE	88	97	100	100	188
4	Keystone	5.25	L	1.2	qt/a	EP	94	100	100	100	189
4	Durango	5.4	L	1.5	pt/a	EP					
4	Yukon	67.5	WG	4	oz/a	EP					
4	Activator 90		L	0.125	% v/v	EP					
5	Roundup OriginalMax	4.5	L	22	fl oz/a	MP	86	95	100	98	192
5	Ammonium Sulfate		DF	17	lb/100 gal	MP					
5	Roundup OriginalMax	4.5	L	22	fl oz/a	LP					
5	Ammonium Sulfate		DF	17	lb/100 gal	LP					
6	Camix	3.67	SE	1.3	qt/a	EP	90	99	100	100	192
6	Touchdown Total	4.17	L	32	fl oz/a	EP					
6	Ammonium Sulfate		DF	17	lb/100 gal	EP					
7	Guardman Max	5	L	2.5	pt/a	PRE	86	76	100	98	191
7	Roundup WeatherMax	4.5	L	22	fl oz/a	MP					
7	Ammonium Sulfate		DF	8.5	lb/100 gal	MP					
8	Keystone	5.25	L	2.4	qt/a	PRE	92	98	100	98	189
8	Hornet 78.5 WDG	78.5	WG	3	oz/a	PRE					
9	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	85	83	100	94	203
9	Roundup OriginalMax	4.5	L	22	fl oz/a	MP					
9	Ammonium Sulfate		DF	17	lb/100 gal	MP					
10	Keystone	5.25	L	1.3	qt/a	PRE	85	99	100	99	186
10	Durango	5.4	L	1.5	pt/a	MP					
10	Yukon	67.5	WG	4	oz/a	MP					
10	Activator 90		L	0.125	% v/v	MP					
11	Degree Xtra	4	L	2	qt/a	PRE	94	86	100	98	190
11	Roundup OriginalMax	4.5	L	22	fl oz/a	MP					
11	Ammonium Sulfate		DF	17	lb/100 gal	MP					
12	Laudis	3.5	SC	3	fl oz/a	EP	71	98	100	98	193
12	Atrazine	4	L	1	qt/a	EP					
12	MSO		L	1	% v/v	EP					
12	28% Nitrogen		L	1.5	qt/a	EP					
13	BreakFree ATZ	5.25	L	2.6	qt/a	PRE	90	93	100	87	194
13	Resolve	25	WG	1	oz/a	PRE					
14	Label Pending						76	93	100	88	197
15	Liberty	1.67	L	32	fl oz/a	MP	75	90	100	98	191
15	Atrazine	4	L	1	qt/a	MP					
15	Ammonium Sulfate		DF	3	lb/a	MP					

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Weed Code	ANGR	CHEAL	AMARE	ABUTH	
Crop Code					Zeamx
Rating Data Type	control	control	control	control	yield
Rating Unit	percent	percent	percent	percent	bu/ac
Rating Date	8/8/07	8/8/07	8/8/07	8/8/07	10/3/07
Trt-Eval Interval	68 DAMP	68 DAMP	68 DAMP	68 DAMP	HARVEST

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	16	17	18	19	20
16	Bicep Lite II Magnum	6	L	1.5	pt/a	PRE	90	89	100	97	196
16	Impact	2.8	SC	0.5	fl oz/a	MP					
16	Roundup WeatherMax	4.5	L	22	fl oz/a	MP					
16	Atrazine	4	L	1	pt/a	MP					
16	Ammonium Sulfate		DF	8.5	lb/100 gal	MP					
17	Lumax	3.94	SE	2.25	qt/a	PRE	94	97	100	100	188
17	Touchdown Total	4.17	L	24	fl oz/a	MP					
17	Ammonium Sulfate		DF	17	lb/100 gal	MP					
18	Atrazine	4	L	1.5	qt/a	PRE	81	97	100	100	191
18	Option	35	WG	1.5	oz/a	MP					
18	Yukon	67.5	WG	4	oz/a	MP					
18	MSO		L	1.5	pt/a	MP					
18	Ammonium Sulfate		DF	1	% w/w	MP					
19	Guardman Max	5	L	4	pt/a	PRE	90	88	100	98	199
19	Status	61.1	WG	5	oz/a	MP					
19	Activator 90		L	0.25	% v/v	MP					
19	Ammonium Sulfate		DF	5	lb/100 gal	MP					
20	Define SC	4	SC	12	fl oz/a	PRE	84	94	100	96	186
20	Liberty	1.67	L	32	fl oz/a	MP					
20	Atrazine	4	L	1	pt/a	MP					
20	Ammonium Sulfate		DF	3	lb/a	MP					
21	Label Pending						87	98	100	100	186
22	Atrazine	4	L	1	qt/a	PRE	66	99	100	100	187
22	Laudis	3.5	SC	3	fl oz/a	MP					
22	MSO		L	1	% v/v	MP					
22	28% Nitrogen		L	1.5	qt/a	MP					
23	Keystone	5.25	L	1.3	qt/a	PRE	79	80	100	100	185
23	Durango	5.4	L	1.5	pt/a	MP					
23	Ammonium Sulfate		DF	1.5	% w/w	MP					
24	Resolve	25	WG	1	oz/a	PRE	79	74	97	97	192
24	Atrazine	4	L	1.5	pt/a	PRE					
24	Roundup OriginalMax	4.5	L	22	fl oz/a	MP					
24	Ammonium Sulfate		DF	17	lb/100 gal	MP					
25	Degree Xtra	4	L	2	qt/a	EP	90	91	100	91	199
25	Roundup OriginalMax	4.5	L	22	fl oz/a	EP					
25	Ammonium Sulfate		DF	17	lb/100 gal	EP					
26	SureStart	4.16	EW	1.75	pt/a	PRE	83	98	100	100	200
26	Duramax DMA	5.4	L	1.5	pt/a	MP					
26	Ammonium Sulfate		DF	1.5	% w/w	MP					
27	Lumax	3.94	SE	2.5	qt/a	PRE	89	96	100	100	197
27	Atrazine	4	L	1	qt/a	PRE					
28	Weedy						0	0	0	0	75
29	Keystone	5.25	L	1.8	qt/a	PRE	87	99	100	100	190
29	Yukon	67.5	WG	4	oz/a	MP					
29	Herbimax		L	1	% v/v	MP					
30	Roundup WeatherMax	4.5	L	22	fl oz/a	EP	63	53	91	76	181
30	Status	61.1	WG	2.5	oz/a	EP					
30	Ammonium Sulfate		DF	8.5	lb/100 gal	EP					

MSU Weed Science Research Program

WEED CONTROL PROGRAMS COMPARISON, 2007

Trial ID: C0107  
 Conducted: CAMPUS

Study Dir.:  
 Investigator: Christy Sprague

Weed Code	ANGR	CHEAL	AMARE	ABUTH	
Crop Code					Zeamx
Rating Data Type	control	control	control	control	yield
Rating Unit	percent	percent	percent	percent	bu/ac
Rating Date	8/8/07	8/8/07	8/8/07	8/8/07	10/3/07
Trt-Eval Interval	68 DAMP	68 DAMP	68 DAMP	68 DAMP	HARVEST

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	16	17	18	19	20
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LSD (P=.05)							5.4	5.3	2.3	5.3	14.1
Standard Deviation							4.7	4.6	2.0	4.6	12.3
CV							5.73	5.24	2.1	4.93	6.55