

MSU Weed Science Research Program

COMMERCIAL WEED CONTROL PROGRAMS COMPARISON, 2006

Trial ID: C0406
 Conducted: CAMPUS

Study Dir.:
 Investigator: Christy Sprague

Date Planted: 5/4/2006 **Row Spacing:** 30 IN
Variety: P37R70 **No. of Reps:** 6
Population: 30,000 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 Soil Finish x2
Fertilizer: 285 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 Grasses	
2.	CHEAL	Common lambsquarters	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	C	D
Application Timing:	PRE	EP	MP	LP
Date Treated:	5/5/2006	5/29/2006	6/1/2006	6/12/2006
Time Treated:	7:45 am	6:45 pm	8:30 am	9:40 am
% Cloud Cover:	10	30	82	10
Air Temp., Unit:	65 F	90 F	68 F	65 F
% Relative Humidity:	63	38	100	55
Wind Speed/Unit/Dir:	0 mph	3 mph SW	0 mph	2 mph NE
Soil Temp., Unit:	53 F	85 F	73 F	66 F
Soil/Leaf Surface M:	3 3	5 5	3 3	5 5
Soil Moist (1=w 5=d):	3	5	3	5

Crop Stage at Each Application

	A	B	C	D
Crop Name:	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Height (In.):		4-6(5)		11-19(16)
Stage (L):		V2-3(2)4L	V3-4(3)5L	7-9(9)

Weed Stage at Each Application

	A	B	C	D
Weed 1 Name:	ANGR	ANGR	ANGR	ANGR
Height (In.):		.25-1.5	.5-5(3)	1-4(1)
Stage (L):		1-4(2)	1-4(3)	1-5(2)
Weed 2 Name:	CHEAL	CHEAL	CHEAL	CHEAL
Height (In.):		.25-1(.5)	.25-2(1)	
Stage (L):		cot-4(2)	cot-6(4)	
Weed 3 Name:	AMARE	AMARE	AMARE	AMARE
Height (In.):		.25	.25-2(1)	
Stage (L):		cot	cot-5(3)	
Weed 4 Name:	AMBEL	AMBEL	AMBEL	AMBEL
Height (In.):		.25-2(1)	.5-4(2)	2-3(2)
Stage (L):		cot-4(2)	2-6(4)	4-6(6)
Weed 5 Name:	ABUTH	ABUTH	ABUTH	ABUTH
Height (In.):		.25-1(.5)	.5-2(1)	1-2(1)
Stage (L):		cot-1(cot)	cot-2(2)	2-4(2)

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Weed Density (plants/sq. ft.)

	1	2	3
Date:	5/5/2006	5/29/2006	6/1/2006
Weed Name:	ANGR	ANGR	ANGR
Density:	22	35	
Date:	5/5/2006	5/29/2006	6/1/2006
Weed Name:	CHEAL	CHEAL	CHEAL
Density:	41	46	
Date:	5/5/2006	5/29/2006	6/2/2006
Weed Name:	AMARE	AMARE	AMARE
Density:	2	4	
Date:	5/5/2006	5/29/2006	6/1/2006
Weed Name:	AMBEL	AMBEL	AMBEL
Density:	18	19	
Date:	5/5/2006	5/29/2006	6/2/2006
Weed Name:	ABUTH	ABUTH	ABUTH
Density:	<1	1	

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom	GPA	Carrier	PSI
	Type	MPH	Type	Size	Height	Spacing	Width			
A	cub	3.5	FF	8003	18"	20"	100"	20	H2O	30
B	cub	3.5	FF	8003	20"	20"	100"	20	H2O	30
C	cub	3.5	FF	8003	23"	20"	100"	20	H2O	30
D	cub	3.5	FF	8003	24"	20"	100"	20	H2O	30

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Weed Code							ANGR	CHEAL	AMARE	AMBEL	ABUTH	ZEAMX	ZEAMX	
Crop Code							injury	control	control	control	control	injury	injury	
Rating Data Type							percent	percent	percent	percent	percent	percent	percent	
Rating Unit							6/3/2006	6/3/2006	6/3/2006	6/3/2006	6/3/2006	6/8/2006	6/15/2006	
Rating Date							AT MP	AT MP	AT MP	AT MP	AT MP	7 DAMP	14 DAMP	
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6	7	8
17	Parallel	8	L	2	pt/a	PRE	0	99	72	92	57	68	0	0
17	Roundup WeatherMax	4.5	L	22	fl oz/a	MP								
17	Ammonium Sulfate		DF	17	lb/100 gal	MP								
18	Bicep II Magnum	5.5	L	2.4	qt/a	PRE	0	98	100	100	93	85	0	0
18	Callisto	4	SC	3	fl oz/a	MP								
18	Atrazine	4	L	0.25	qt/a	MP								
19	Blank						0	99	92	100	72	81	1	0
20	Atrazine	4	L	1	qt/a	MP							5	0
20	Option	35	WG	1.5	oz/a	MP								
20	Define SC	4	SC	12	fl oz/a	MP								
20	MSO		L	1.5	pt/a	MP								
20	28% Nitrogen		L	1.5	qt/a	MP								
21	Degree Xtra	4	L	2	qt/a	MP							0	0
21	Roundup OriginalMax	4.5	L	22	fl oz/a	MP								
21	Ammonium Sulfate		DF	17	lb/100 gal	MP								
22	Define SC	4	SC	18	fl oz/a	PRE	0	99	77	100	71	70	1	0
22	Buctril/ATR	3	L	2	pt/a	MP								
23	Keystone LA	5.5	L	1.9	qt/a	PRE	0	100	100	85	90	93	5	8
23	Hornet WDG	68.5	DG	3	oz/a	PRE								
24	Define SC	4	SC	12	fl oz/a	EP							0	1
24	Equip	32	WG	1.5	oz/a	EP								
24	Atrazine	4	L	1	pt/a	EP								
25	Keystone	5.25	L	1.3	qt/a	EP							0	0
25	Durango	4	L	1.5	pt/a	EP								
25	Ammonium Sulfate		DF	1.5	% w/w	EP								
26	Resolve	25	DF	1	oz/a	EP							0	0
26	Atrazine	4	L	1.5	pt/a	EP								
26	Roundup OriginalMax	4.5	L	22	fl oz/a	EP								
26	Ammonium Sulfate		DF	17	lb/100 gal	EP								
27	Resolve	25	DF	1	oz/a	PRE	0	78	96	100	71	79	1	1
27	Atrazine	4	L	1.5	pt/a	PRE								
27	Roundup OriginalMax	4.5	L	22	fl oz/a	MP								
27	Ammonium Sulfate		DF	17	lb/100 gal	MP								
28	Parallel Plus	5.5	L	2.8	qt/a	PRE	0	100	100	100	93	84	0	0
29	Lexar	3.7	L	3.5	qt/a	PRE	0	99	100	100	96	95	0	0
30	Guardsman Max	5	L	1.25	qt/a	PRE	0	97	100	100	81	75	0	1
30	Impact	2.8	SC	0.5	fl oz/a	MP								
30	Atrazine	4	L	1	pt/a	MP								
30	MSO		L	1	% v/v	MP								
30	28% Nitrogen		L	2.5	% v/v	MP								
31	Weed Free												0	0
32	Untreated												0	0
LSD (P=.05)							0.0	3.7	3.7	13.2	6.4	6.6	1.2	2.1
Standard Deviation							0.0	3.2	3.2	11.5	5.6	5.8	1.1	1.8
CV							0.0	3.32	3.35	11.81	6.9	7.01	115.66	75.15

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Weed Code							ANGR	CHEAL	AMARE	AMBEL	ABUTH		ANGR
Crop Code												ZEAMX	
Rating Data Type							control	control	control	control	control	injury	control
Rating Unit							percent	percent	percent	percent	percent	percent	percent
Rating Date							6/15/2006	6/15/2006	6/15/2006	6/15/2006	6/15/2006	6/27/2006	6/27/2006
Trt-Eval Interval							14 DAMP	14 DAMP	14 DAMP	14 DAMP	14 DAMP	26 DAMP	26 DAMP
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	9	10	11	12	13	14	15
1	Keystone	5.25	L	1.3	qt/a	PRE	96	100	100	100	88	0	89
1	Durango	4	L	1.5	pt/a	MP							
1	Ammonium Sulfate		DF	1.5	% w/w	MP							
2	Blank						97	88	100	74	89	4	100
3	Steadfast ATZ	89.3	DF	14	oz/a	MP	98	100	100	100	98	0	90
3	Distinct	70	DF	2	oz/a	MP							
3	Herbimax		L	1	% v/v	MP							
3	Ammonium Sulfate		DF	2	lb/a	MP							
4	Outlook	6	L	12	fl oz/a	PRE	97	100	100	99	93	4	91
4	Roundup OriginalMax	4.5	L	16	fl oz/a	MP							
4	Distinct	70	DF	3	oz/a	MP							
4	Ammonium Sulfate		DF	17	lb/100 gal	MP							
5	Blank						97	100	100	91	84	3	98
6	Define SC	4	SC	18	fl oz/a	PRE	96	100	100	95	90	1	96
6	Hornet WDG	68.5	DG	3	oz/a	PRE							
6	Atrazine	4	L	1.5	qt/a	PRE							
7	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	93	100	100	98	92	0	87
7	Roundup OriginalMax	4.5	L	22	fl oz/a	MP							
7	Ammonium Sulfate		DF	17	lb/100 gal	MP							
8	Roundup OriginalMax	4.5	L	22	fl oz/a	MP	98	100	100	98	96	0	99
8	Ammonium Sulfate		DF	17	lb/100 gal	MP							
8	Roundup OriginalMax	4.5	L	22	fl oz/a	LP							
8	Ammonium Sulfate		DF	17	lb/100 gal	LP							
9	Keystone LA	5.5	L	1.9	qt/a	PRE	96	100	100	89	93	10	93
9	Python	80	DG	0.8	oz/a	PRE							
10	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	95	100	100	98	94	0	92
10	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
10	Ammonium Sulfate		DF	17	lb/100 gal	MP							
11	Guardsman Max	5	L	3.5	pt/a	PRE	90	100	100	84	78	6	95
11	Distinct	70	DF	4	oz/a	LP							
11	Activator 90		L	0.25	% v/v	LP							
11	Ammonium Sulfate		DF	2.5	lb/a	LP							
12	Stalwart Xtra		L	2.6	qt/a	EP	99	100	100	100	97	0	98
12	Roundup OriginalMax	4.5	L	22	fl oz/a	EP							
12	Ammonium Sulfate		DF	17	lb/100 gal	EP							
13	Guardsman Max	5	L	3.5	pt/a	PRE	93	100	100	92	87	9	88
13	Hornet WDG	68.5	DG	3	oz/a	PRE							
14	Lumax	3.94	SE	2.25	qt/a	PRE	99	100	100	98	94	0	98
14	Touchdown Total	4.17	L	24	fl oz/a	MP							
14	Ammonium Sulfate		DF	8.5	lb/100 gal	MP							
15	Guardsman Max	5	L	2	pt/a	PRE	91	100	100	83	92	0	84
15	Roundup OriginalMax	4.5	L	16	fl oz/a	MP							
15	Distinct	70	DF	3	oz/a	MP							
15	Ammonium Sulfate		DF	17	lb/100 gal	MP							
16	Lumax	3.94	SE	3	qt/a	PRE	98	100	100	95	95	0	98
16	Atrazine	4	L	1	qt/a	PRE							

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Crop Code												ZEAMX	
Rating Data Type							control	control	control	control	control	injury	control
Rating Unit							percent	percent	percent	percent	percent	percent	percent
Rating Date							6/15/2006	6/15/2006	6/15/2006	6/15/2006	6/15/2006	6/27/2006	6/27/2006
Trt-Eval Interval							14 DAMP	14 DAMP	14 DAMP	14 DAMP	14 DAMP	26 DAMP	26 DAMP
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	9	10	11	12	13	14	15
17	Parallel	8	L	2	pt/a	PRE	99	100	100	98	94	0	97
17	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
17	Ammonium Sulfate		DF	17	lb/100 gal	MP							
18	Bicep II Magnum	5.5	L	2.4	qt/a	PRE	99	100	100	100	99	0	98
18	Callisto	4	SC	3	fl oz/a	MP							
18	Atrazine	4	L	0.25	qt/a	MP							
19	Blank						98	99	100	97	92	1	94
20	Atrazine	4	L	1	qt/a	MP	98	100	100	100	98	0	91
20	Option	35	WG	1.5	oz/a	MP							
20	Define SC	4	SC	12	fl oz/a	MP							
20	MSO		L	1.5	pt/a	MP							
20	28% Nitrogen		L	1.5	qt/a	MP							
21	Degree Xtra	4	L	2	qt/a	MP	98	100	100	100	99	0	97
21	Roundup OriginalMax	4.5	L	22	fl oz/a	MP							
21	Ammonium Sulfate		DF	17	lb/100 gal	MP							
22	Define SC	4	SC	18	fl oz/a	PRE	98	100	100	100	99	0	96
22	Buctril/ATR	3	L	2	pt/a	MP							
23	Keystone LA	5.5	L	1.9	qt/a	PRE	94	100	100	88	91	8	94
23	Hornet WDG	68.5	DG	3	oz/a	PRE							
24	Define SC	4	SC	12	fl oz/a	EP	90	100	100	97	88	0	84
24	Equip	32	WG	1.5	oz/a	EP							
24	Atrazine	4	L	1	pt/a	EP							
25	Keystone	5.25	L	1.3	qt/a	EP	99	100	100	100	88	0	99
25	Durango	4	L	1.5	pt/a	EP							
25	Ammonium Sulfate		DF	1.5	% w/w	EP							
26	Resolve	25	DF	1	oz/a	EP	90	100	100	98	88	0	79
26	Atrazine	4	L	1.5	pt/a	EP							
26	Roundup OriginalMax	4.5	L	22	fl oz/a	EP							
26	Ammonium Sulfate		DF	17	lb/100 gal	EP							
27	Resolve	25	DF	1	oz/a	PRE	92	100	100	99	95	3	84
27	Atrazine	4	L	1.5	pt/a	PRE							
27	Roundup OriginalMax	4.5	L	22	fl oz/a	MP							
27	Ammonium Sulfate		DF	17	lb/100 gal	MP							
28	Parallel Plus	5.5	L	2.8	qt/a	PRE	97	100	100	89	78	0	96
29	Lexar	3.7	L	3.5	qt/a	PRE	95	100	100	92	91	0	96
30	Guardsman Max	5	L	1.25	qt/a	PRE	96	100	100	100	98	0	91
30	Impact	2.8	SC	0.5	fl oz/a	MP							
30	Atrazine	4	L	1	pt/a	MP							
30	MSO		L	1	% v/v	MP							
30	28% Nitrogen		L	2.5	% v/v	MP							
31	Weed Free						100	100	100	100	100	0	100
32	Untreated						0	0	0	0	0	0	0
LSD (P=.05)							3.4	2.0	0.0	8.8	4.0	2.7	5.1
Standard Deviation							3.0	1.8	0.0	7.7	3.5	2.4	4.5
CV							3.19	1.85	0.0	8.31	3.9	155.51	4.96

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Weed Code	CHEAL	AMARE	AMBEL	ABUTH	ZEAMX	ANGR	CHEAL						
Crop Code													
Rating Data Type	control	control	control	control	injury	control	control						
Rating Unit	percent	percent	percent	percent	percent	percent	percent						
Rating Date	6/27/2006	6/27/2006	6/27/2006	6/27/2006	8/9/2006	8/9/2006	8/9/2006						
Trt-Eval Interval	26 DAMP	26 DAMP	26 DAMP	26 DAMP	69 DAMP	69 DAMP	69 DAMP						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	16	17	18	19	20	21	22
1	Keystone	5.25	L	1.3	qt/a	PRE	98	99	93	79	0	85	92
1	Durango	4	L	1.5	pt/a	MP							
1	Ammonium Sulfate		DF	1.5	% w/w	MP							
2	Blank						57	100	64	82	0	97	82
3	Steadfast ATZ	89.3	DF	14	oz/a	MP	100	100	100	98	0	84	100
3	Distinct	70	DF	2	oz/a	MP							
3	Herbimax		L	1	% v/v	MP							
3	Ammonium Sulfate		DF	2	lb/a	MP							
4	Outlook	6	L	12	fl oz/a	PRE	95	100	96	81	0	83	91
4	Roundup OriginalMax	4.5	L	16	fl oz/a	MP							
4	Distinct	70	DF	3	oz/a	MP							
4	Ammonium Sulfate		DF	17	lb/100 gal	MP							
5	Blank						100	100	81	72	0	96	97
6	Define SC	4	SC	18	fl oz/a	PRE	100	99	84	80	0	90	98
6	Hornet WDG	68.5	DG	3	oz/a	PRE							
6	Atrazine	4	L	1.5	qt/a	PRE							
7	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	97	100	91	81	0	83	92
7	Roundup OriginalMax	4.5	L	22	fl oz/a	MP							
7	Ammonium Sulfate		DF	17	lb/100 gal	MP							
8	Roundup OriginalMax	4.5	L	22	fl oz/a	MP	100	100	100	100	0	96	92
8	Ammonium Sulfate		DF	17	lb/100 gal	MP							
8	Roundup OriginalMax	4.5	L	22	fl oz/a	LP							
8	Ammonium Sulfate		DF	17	lb/100 gal	LP							
9	Keystone LA	5.5	L	1.9	qt/a	PRE	99	99	73	87	0	91	96
9	Python	80	DG	0.8	oz/a	PRE							
10	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	98	100	91	85	0	88	96
10	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
10	Ammonium Sulfate		DF	17	lb/100 gal	MP							
11	Guardsman Max	5	L	3.5	pt/a	PRE	100	100	99	92	15	92	94
11	Distinct	70	DF	4	oz/a	LP							
11	Activator 90		L	0.25	% v/v	LP							
11	Ammonium Sulfate		DF	2.5	lb/a	LP							
12	Stalwart Xtra		L	2.6	qt/a	EP	100	100	99	95	0	98	100
12	Roundup OriginalMax	4.5	L	22	fl oz/a	EP							
12	Ammonium Sulfate		DF	17	lb/100 gal	EP							
13	Guardsman Max	5	L	3.5	pt/a	PRE	99	99	76	76	0	81	97
13	Hornet WDG	68.5	DG	3	oz/a	PRE							
14	Lumax	3.94	SE	2.25	qt/a	PRE	100	100	90	86	0	95	95
14	Touchdown Total	4.17	L	24	fl oz/a	MP							
14	Ammonium Sulfate		DF	8.5	lb/100 gal	MP							
15	Guardsman Max	5	L	2	pt/a	PRE	99	98	99	86	0	74	95
15	Roundup OriginalMax	4.5	L	16	fl oz/a	MP							
15	Distinct	70	DF	3	oz/a	MP							
15	Ammonium Sulfate		DF	17	lb/100 gal	MP							
16	Lumax	3.94	SE	3	qt/a	PRE	100	100	87	88	0	98	100
16	Atrazine	4	L	1	qt/a	PRE							

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Crop Code													
Rating Data Type	control	control	control	control	injury	control	control						
Rating Unit	percent	percent	percent	percent	percent	percent	percent						
Rating Date	6/27/2006	6/27/2006	6/27/2006	6/27/2006	8/9/2006	8/9/2006	8/9/2006						
Trt-Eval Interval	26 DAMP	26 DAMP	26 DAMP	26 DAMP	69 DAMP	69 DAMP	69 DAMP						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	16	17	18	19	20	21	22
17	Parallel	8	L	2	pt/a	PRE	90	100	91	82	0	94	90
17	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
17	Ammonium Sulfate		DF	17	lb/100 gal	MP							
18	Bicep II Magnum	5.5	L	2.4	qt/a	PRE	100	100	99	99	0	93	100
18	Callisto	4	SC	3	fl oz/a	MP							
18	Atrazine	4	L	0.25	qt/a	MP							
19	Blank						93	99	89	79	0	92	91
20	Atrazine	4	L	1	qt/a	MP	100	100	100	98	0	88	100
20	Option	35	WG	1.5	oz/a	MP							
20	Define SC	4	SC	12	fl oz/a	MP							
20	MSO		L	1.5	pt/a	MP							
20	28% Nitrogen		L	1.5	qt/a	MP							
21	Degree Xtra	4	L	2	qt/a	MP	100	100	100	100	0	97	100
21	Roundup OriginalMax	4.5	L	22	fl oz/a	MP							
21	Ammonium Sulfate		DF	17	lb/100 gal	MP							
22	Define SC	4	SC	18	fl oz/a	PRE	100	100	99	97	0	95	99
22	Buctril/ATR	3	L	2	pt/a	MP							
23	Keystone LA	5.5	L	1.9	qt/a	PRE	99	99	75	89	0	90	94
23	Hornet WDG	68.5	DG	3	oz/a	PRE							
24	Define SC	4	SC	12	fl oz/a	EP	99	100	92	80	0	80	98
24	Equip	32	WG	1.5	oz/a	EP							
24	Atrazine	4	L	1	pt/a	EP							
25	Keystone	5.25	L	1.3	qt/a	EP	100	100	100	78	0	98	100
25	Durango	4	L	1.5	pt/a	EP							
25	Ammonium Sulfate		DF	1.5	% w/w	EP							
26	Resolve	25	DF	1	oz/a	EP	96	100	95	79	0	70	99
26	Atrazine	4	L	1.5	pt/a	EP							
26	Roundup OriginalMax	4.5	L	22	fl oz/a	EP							
26	Ammonium Sulfate		DF	17	lb/100 gal	EP							
27	Resolve	25	DF	1	oz/a	PRE	89	100	94	87	0	77	92
27	Atrazine	4	L	1.5	pt/a	PRE							
27	Roundup OriginalMax	4.5	L	22	fl oz/a	MP							
27	Ammonium Sulfate		DF	17	lb/100 gal	MP							
28	Parallel Plus	5.5	L	2.8	qt/a	PRE	99	100	77	67	0	93	99
29	Lexar	3.7	L	3.5	qt/a	PRE	100	99	85	83	0	94	99
30	Guardsman Max	5	L	1.25	qt/a	PRE	100	100	98	98	0	86	100
30	Impact	2.8	SC	0.5	fl oz/a	MP							
30	Atrazine	4	L	1	pt/a	MP							
30	MSO		L	1	% v/v	MP							
30	28% Nitrogen		L	2.5	% v/v	MP							
31	Weed Free						100	100	100	100	0	100	100
32	Untreated						0	0	0	0	0	0	0
LSD (P=.05)							9.4	1.4	4.4	6.6	0.9	7.5	4.0
Standard Deviation							8.3	1.2	3.9	5.8	0.8	6.6	3.5
CV							8.8	1.23	4.42	6.93	169.36	7.55	3.77

MSU Weed Science Research Program

COMMERCIAL WEED CONTROL PROGRAMS COMPARISON, 2006

Trial ID: C0406
 Conducted: CAMPUS

Study Dir.:
 Investigator: Christy Sprague

Weed Code		AMARE	AMBEL	ABUTH		
Crop Code					ZEAMX	
Rating Data Type		control	control	control	yield	
Rating Unit		percent	percent	percent	bu/ac	
Rating Date		8/9/2006	8/9/2006	8/9/2006	10/21/2006	
Trt-Eval Interval		69 DAMP	69 DAMP	69 DAMP	HARVEST	

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	23	24	25	26
1	Keystone	5.25	L	1.3	qt/a	PRE	99	94	83	221
1	Durango	4	L	1.5	pt/a	MP				
1	Ammonium Sulfate		DF	1.5	% w/w	MP				
2	Blank						100	61	88	212
3	Steadfast ATZ	89.3	DF	14	oz/a	MP	100	100	99	221
3	Distinct	70	DF	2	oz/a	MP				
3	Herbimax		L	1	% v/v	MP				
3	Ammonium Sulfate		DF	2	lb/a	MP				
4	Outlook	6	L	12	fl oz/a	PRE	100	97	85	218
4	Roundup OriginalMax	4.5	L	16	fl oz/a	MP				
4	Distinct	70	DF	3	oz/a	MP				
4	Ammonium Sulfate		DF	17	lb/100 gal	MP				
5	Blank						99	79	73	217
6	Define SC	4	SC	18	fl oz/a	PRE	97	76	79	216
6	Hornet WDG	68.5	DG	3	oz/a	PRE				
6	Atrazine	4	L	1.5	qt/a	PRE				
7	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	99	94	82	225
7	Roundup OriginalMax	4.5	L	22	fl oz/a	MP				
7	Ammonium Sulfate		DF	17	lb/100 gal	MP				
8	Roundup OriginalMax	4.5	L	22	fl oz/a	MP	99	99	99	226
8	Ammonium Sulfate		DF	17	lb/100 gal	MP				
8	Roundup OriginalMax	4.5	L	22	fl oz/a	LP				
8	Ammonium Sulfate		DF	17	lb/100 gal	LP				
9	Keystone LA	5.5	L	1.9	qt/a	PRE	100	68	93	214
9	Python	80	DG	0.8	oz/a	PRE				
10	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	100	93	85	216
10	Roundup WeatherMax	4.5	L	22	fl oz/a	MP				
10	Ammonium Sulfate		DF	17	lb/100 gal	MP				
11	Guardsman Max	5	L	3.5	pt/a	PRE	100	98	100	214
11	Distinct	70	DF	4	oz/a	LP				
11	Activator 90		L	0.25	% v/v	LP				
11	Ammonium Sulfate		DF	2.5	lb/a	LP				
12	Stalwart Xtra		L	2.6	qt/a	EP	100	98	97	225
12	Roundup OriginalMax	4.5	L	22	fl oz/a	EP				
12	Ammonium Sulfate		DF	17	lb/100 gal	EP				
13	Guardsman Max	5	L	3.5	pt/a	PRE	100	75	80	215
13	Hornet WDG	68.5	DG	3	oz/a	PRE				
14	Lumax	3.94	SE	2.25	qt/a	PRE	100	92	91	227
14	Touchdown Total	4.17	L	24	fl oz/a	MP				
14	Ammonium Sulfate		DF	8.5	lb/100 gal	MP				
15	Guardsman Max	5	L	2	pt/a	PRE	99	98	88	223
15	Roundup OriginalMax	4.5	L	16	fl oz/a	MP				
15	Distinct	70	DF	3	oz/a	MP				
15	Ammonium Sulfate		DF	17	lb/100 gal	MP				
16	Lumax	3.94	SE	3	qt/a	PRE	100	88	93	219
16	Atrazine	4	L	1	qt/a	PRE				

MSU Weed Science Research Program

COMMERCIAL WEED CONTROL PROGRAMS COMPARISON, 2006

Trial ID: C0406
 Conducted: CAMPUS

Study Dir.:
 Investigator: Christy Sprague

Weed Code	AMARE	AMBEL	ABUTH	ZEAMX
Crop Code				
Rating Data Type	control	control	control	yield
Rating Unit	percent	percent	percent	bu/ac
Rating Date	8/9/2006	8/9/2006	8/9/2006	10/21/2006
Trt-Eval Interval	69 DAMP	69 DAMP	69 DAMP	HARVEST

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	23	24	25	26
17	Parallel	8	L	2	pt/a	PRE	100	91	86	221
17	Roundup WeatherMax	4.5	L	22	fl oz/a	MP				
17	Ammonium Sulfate		DF	17	lb/100 gal	MP				
18	Bicep II Magnum	5.5	L	2.4	qt/a	PRE	100	100	100	228
18	Callisto	4	SC	3	fl oz/a	MP				
18	Atrazine	4	L	0.25	qt/a	MP				
19	Blank						100	88	81	221
20	Atrazine	4	L	1	qt/a	MP	100	100	98	221
20	Option	35	WG	1.5	oz/a	MP				
20	Define SC	4	SC	12	fl oz/a	MP				
20	MSO		L	1.5	pt/a	MP				
20	28% Nitrogen		L	1.5	qt/a	MP				
21	Degree Xtra	4	L	2	qt/a	MP	100	100	100	221
21	Roundup OriginalMax	4.5	L	22	fl oz/a	MP				
21	Ammonium Sulfate		DF	17	lb/100 gal	MP				
22	Define SC	4	SC	18	fl oz/a	PRE	100	98	99	225
22	Buctril/ATR	3	L	2	pt/a	MP				
23	Keystone LA	5.5	L	1.9	qt/a	PRE	100	81	86	216
23	Hornet WDG	68.5	DG	3	oz/a	PRE				
24	Define SC	4	SC	12	fl oz/a	EP	100	96	79	223
24	Equip	32	WG	1.5	oz/a	EP				
24	Atrazine	4	L	1	pt/a	EP				
25	Keystone	5.25	L	1.3	qt/a	EP	100	100	83	224
25	Durango	4	L	1.5	pt/a	EP				
25	Ammonium Sulfate		DF	1.5	% w/w	EP				
26	Resolve	25	DF	1	oz/a	EP	100	99	82	223
26	Atrazine	4	L	1.5	pt/a	EP				
26	Roundup OriginalMax	4.5	L	22	fl oz/a	EP				
26	Ammonium Sulfate		DF	17	lb/100 gal	EP				
27	Resolve	25	DF	1	oz/a	PRE	100	96	91	219
27	Atrazine	4	L	1.5	pt/a	PRE				
27	Roundup OriginalMax	4.5	L	22	fl oz/a	MP				
27	Ammonium Sulfate		DF	17	lb/100 gal	MP				
28	Parallel Plus	5.5	L	2.8	qt/a	PRE	99	74	68	226
29	Lexar	3.7	L	3.5	qt/a	PRE	100	81	81	223
30	Guardsman Max	5	L	1.25	qt/a	PRE	100	98	97	221
30	Impact	2.8	SC	0.5	fl oz/a	MP				
30	Atrazine	4	L	1	pt/a	MP				
30	MSO		L	1	% v/v	MP				
30	28% Nitrogen		L	2.5	% v/v	MP				
31	Weed Free						100	100	100	223
32	Untreated						0	0	0	83

LSD (P=.05)
 Standard Deviation
 CV

1.2	6.3	7.6	8.4
1.0	5.5	6.6	7.4
1.06	6.28	7.75	3.4