

MSU Weed Science Research Program

WEED CONTROL PROGRAMS COMPARISONS, 2009

Trial ID: C0209
 Conducted: CAMPUS

Study Dir.: Andy Chomas
 Investigator: Wesley Everman

Date Planted: 5/7/09 **Row Spacing:** 30 IN
Variety: PIONEER 37Y14 **No. of Reps:** 6
Population: 29,000 S/A **% OM:** 3.4
Soil Type: Loam **pH:** 6.4
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	C	D
Application Timing:	PRE	EP	MP	LP
Date Treated:	5/8/09	5/30/09	6/5/09	6/15/09
Time Treated:	8:00 AM	8:45 AM	12:00 PM	2:45 PM
% Cloud Cover:	0	80	0	25
Air Temp., Unit:	53 F	53 F	76 F	83 F
% Relative Humidity:	81	75	36	21
Wind Speed/Unit/Dir:	5 mph W	3 mph W	6 mph W	2 mph N
Soil Temp., Unit:	49 F	51 F	65 F	80 F
Soil/Leaf Surface M:		1	5	5
Soil Moist (1=w 5=d):	3	4	4	4

Crop Stage at Each Application

	A	B	C	D
Crop Name:	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Height (In.):		4-6(4)	7-8(7)	12-19(17)
Stage (L):		4:V2-3(3)	6:V3-4(3)	7:V5-6(5)

Weed Stage at Each Application

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

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Weed Density (plants/sq. ft.)

	1	2	3
Date:	5/8/09	5/30/09	6/5/09
Weed Name:	ANGR	ANGR	ANGR
Density:		32	50
Date:	5/8/09	5/30/09	6/5/09
Weed Name:	CHEAL	CHEAL	CHEAL
Density:		22	50
Date:	5/8/09	5/30/09	6/5/09
Weed Name:	AMARE	AMARE	AMARE
Density:		3	3
Date:	5/8/09	5/30/09	6/5/09
Weed Name:	AMBEL	AMBEL	AMBEL
Date:	5/8/09	5/30/09	6/5/09
Weed Name:	ABUTH	ABUTH	ABUTH
Density:		2	<1

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	19"	20"	100"	20	H2O	30
C	CUB	3.5	FF	8003	22"	20"	100"	20	H2O	30
D	CUB	3.5	FF	8003	28"	20"	100"	20	H2O	30

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Weed Code	ANGR	CHEAL	AMARE	AMBEL	ABUTH		
Crop Code	ZEAMX					ZEAMX	ZEAMX
Rating Data Type	injury	control	control	control	control	injury	injury
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Rating Date	6/4/09	6/4/09	6/4/09	6/4/09	6/4/09	6/12/09	6/19/09
Trt-Eval Interval	AT MP	AT MP	AT MP	AT MP	AT MP	7 DAMP	14 DAMP
ARM Action Codes							

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6	7	8
29	Lumax	3.94	SE	2	qt/a	PRE	0	99	100	100	100	97	0	0
29	Touchdown Total	4.17	L	24	fl oz/a	MP								
29	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
30	Harness Xtra 5.6	5.6	L	1.5	qt/a	EP	8	91	100	100	100	92	0	0
30	Roundup PowerMAX	4.5	L	22	fl oz/a	EP								
30	Ammonium Sulfate	100	DF	17	lb/100 gal	EP								
31	Resolve Q			1.25	oz/a	MP							3	0
31	Atrazine	4	L	0.75	qt/a	MP								
31	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
31	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
32	Roundup PowerMAX	4.5	L	22	fl oz/a	MP							2	0
32	Status	56	DF	2.5	oz/a	MP								
32	Prowl H2O	3.8	L	2	pt/a	MP								
32	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
33	Capreno	3.45	SC	3	fl oz/a	MP							9	0
33	Atrazine	4	L	1	pt/a	MP								
33	Herbimax		L	1	% v/v	MP								
33	UAN 28%		L	1.5	qt/a	MP								
34	Roundup PowerMAX	4.5	L	22	fl oz/a	EP	1	84	99	100	97	86	1	0
34	Ammonium Sulfate	100	DF	17	lb/100 gal	EP								
34	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
34	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
35	Harness Xtra 5.6	5.6	L	1	qt/a	PRE	0	94	98	100	100	82	0	23
35	Yukon	67.5	WG	4	oz/a	LP								
35	Roundup PowerMAX	4.5	L	22	fl oz/a	LP								
35	Activator 90		L	0.125	% v/v	LP								
35	Ammonium Sulfate	100	DF	17	lb/100 gal	LP								
LSD (P=.05)							1.1	6.1	4.9	3.9	3.0	4.9	1.9	1.0
Standard Deviation							0.9	5.3	4.3	3.4	2.7	4.2	1.7	0.9
CV							169.43	5.78	4.41	3.45	2.67	4.87	284.33	137.89

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Weed Code	ANGR	CHEAL	AMARE	ABUTH	ANGR	CHEAL	AMARE
Crop Code							
Rating Data Type	control	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Rating Date	6/19/09	6/19/09	6/19/09	6/19/09	7/1/09	7/1/09	7/1/09
Trt-Eval Interval	14 DAMP	14 DAMP	14 DAMP	14 DAMP	26 DAMP	26 DAMP	26 DAMP
ARM Action Codes							

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	9	10	11	12	13	14	15
1	Roundup PowerMAX	4.5	L	22	fl oz/a	MP	99	100	100	100	98	99	100
1	Status	56	DF	2.5	oz/a	MP							
1	Guardsman Max	5	L	2.5	pt/a	MP							
1	Ammonium Sulfate	100	DF	17	lb/100 gal	MP							
2	Degree Xtra	4	L	2	qt/a	PRE	100	99	100	98	95	90	97
2	Roundup PowerMAX	4.5	L	22	fl oz/a	MP							
2	Ammonium Sulfate	100	DF	17	lb/100 gal	MP							
3	STEADFAST Q			1.5	oz/a	MP	83	100	100	99	94	99	99
3	Atrazine	4	L	1	qt/a	MP							
3	Status	56	DF	2.5	oz/a	MP							
3	Herbimax		L	1	% v/v	MP							
3	Ammonium Sulfate	100	DF	2	lb/100 gal	MP							
4	Ignite 280	2.34	L	22	fl oz/a	MP	97	99	100	100	81	85	89
4	Ammonium Sulfate	100	DF	3	lb/100 gal	MP							
4	Ignite 280	2.34	L	22	fl oz/a	LP							
4	Ammonium Sulfate	100	DF	3	lb/100 gal	LP							
5	Parallel	7.8	EC	1.5	pt/a	PRE	99	99	100	97	93	82	86
5	Roundup PowerMAX	4.5	L	22	fl oz/a	MP							
5	Ammonium Sulfate	100	DF	17	lb/100 gal	MP							
6	Bicep Lite II Magnum	6	L	1.5	pt/a	PRE	98	100	100	98	86	89	91
6	Impact	2.8	SC	0.5	fl oz/a	MP							
6	Roundup PowerMAX	4.5	L	22	fl oz/a	MP							
6	Atrazine	4	L	1	pt/a	MP							
6	Ammonium Sulfate	100	DF	17	lb/100 gal	MP							
7	Parallel Plus	5.5	L	1.5	qt/a	PRE	96	98	100	99	86	81	85
7	Roundup PowerMAX	4.5	L	22	fl oz/a	MP							
7	Ammonium Sulfate	100	DF	17	lb/100 gal	MP							
8	Guardsman Max	5	L	2.5	pt/a	PRE	99	100	100	98	87	83	93
8	Roundup PowerMAX	4.5	L	22	fl oz/a	MP							
8	Status	56	DF	2.5	oz/a	MP							
8	Ammonium Sulfate	100	DF	17	lb/100 gal	MP							
9	Laudis	3.5	SC	3	fl oz/a	MP	89	100	100	99	75	98	99
9	Atrazine	4	L	1	qt/a	MP							
9	MSO		L	1	% v/v	MP							
9	UAN 28%		L	1.5	qt/a	MP							
10	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	98	100	100	99	86	86	90
10	Roundup PowerMAX	4.5	L	22	fl oz/a	MP							
10	Ammonium Sulfate	100	DF	17	lb/100 gal	MP							
11	SureStart	4.18	SE	1.75	pt/a	PRE	97	100	100	99	86	94	95
11	Durango DMA	4	L	24	fl oz/a	MP							
11	Ammonium Sulfate	100	DF	2	% w/w	MP							
12	Bicep II Magnum	5.5	L	1.1	qt/a	PRE	100	100	100	99	99	100	100
12	Halex GT	4.39	L	3.6	pt/a	MP							
12	Atrazine	4	L	1	pt/a	MP							
12	Activator 90		L	0.25	% v/v	MP							
12	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP							

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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	6/19/09	6/19/09	6/19/09	6/19/09	7/1/09	7/1/09	7/1/09
Trt-Eval Interval	14 DAMP	14 DAMP	14 DAMP	14 DAMP	26 DAMP	26 DAMP	26 DAMP
ARM Action Codes							

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	9	10	11	12	13	14	15
13	Parallel Plus	5.5	L	2.3	qt/a	PRE	100	99	100	98	92	89	91
13	Roundup PowerMAX	4.5	L	22	fl oz/a	MP							
13	Ammonium Sulfate	100	DF	17	lb/100 gal	MP							
14	Halex GT	4.39	L	3.6	pt/a	MP	100	100	100	100	99	99	100
14	Atrazine	4	L	1	pt/a	MP							
14	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP							
15	Harness Xtra 5.6	5.6	L	1	qt/a	PRE	99	100	100	99	86	97	99
15	Yukon	67.5	WG	4	oz/a	MP							
15	Roundup PowerMAX	4.5	L	22	fl oz/a	MP							
15	Activator 90		L	0.125	% v/v	MP							
15	Ammonium Sulfate	100	DF	17	lb/100 gal	MP							
16	Breakfree ATZ	5.25	L	2.2	qt/a	PRE	87	98	100	77	76	80	91
17	Atrazine	4	L	1.5	qt/a	PRE	71	98	100	70	96	91	92
17	Ignite 280	2.34	L	22	fl oz/a	LP							
17	Ammonium Sulfate	100	DF	3	lb/100 gal	LP							
18	Bicep Lite II Magnum	6	L	1.5	pt/a	PRE	99	100	100	98	90	96	96
18	Impact	2.8	SC	0.75	fl oz/a	MP							
18	Atrazine	4	L	1	pt/a	MP							
18	MSO		L	1	% v/v	MP							
18	UAN 28%		L	2.5	% v/v	MP							
19	Parallel	7.8	EC	2	pt/a	PRE	100	97	100	98	95	87	92
19	Roundup PowerMAX	4.5	L	22	fl oz/a	MP							
19	Ammonium Sulfate	100	DF	17	lb/100 gal	MP							
20	Guardsman Max	5	L	4	pt/a	PRE	98	100	100	98	92	92	95
20	Status	56	DF	5	oz/a	MP							
20	Activator 90		L	0.25	% v/v	MP							
20	Ammonium Sulfate	100	DF	17	lb/100 gal	MP							
21	SureStart	4.18	SE	2.5	pt/a	PRE	93	100	100	98	81	98	97
21	Keystone	5.25	L	2	pt/a	PRE							
22	Weed Free						99	100	100	100	100	100	100
23	Non-Treated						0	0	0	0	0	0	0
24	Lumax	3.94	SE	2.5	qt/a	PRE	93	100	100	100	82	98	99
24	Atrazine	4	L	1	qt/a	PRE							
25	Resolve	25	DF	1	oz/a	PRE	81	96	100	87	91	95	99
25	Atrazine	4	L	0.75	qt/a	PRE							
25	Roundup PowerMAX	4.5	L	22	fl oz/a	LP							
25	Ammonium Sulfate	100	DF	17	lb/100 gal	LP							
26	SureStart	4.18	SE	2	pt/a	EP	94	100	100	94	83	98	97
26	Durango DMA	4	L	24	fl oz/a	EP							
26	Ammonium Sulfate	100	DF	2	% w/w	EP							
27	Keystone	5.25	L	2.4	qt/a	PRE	91	100	100	96	79	96	99
27	Hornet WDG	68.5	DG	3	oz/a	PRE							
28	Harness Xtra 5.6	5.6	L	2	qt/a	PRE	94	100	100	97	83	98	99
28	Yukon	67.5	WG	4	oz/a	MP							
28	Herbimax		L	1	% v/v	MP							

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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	6/19/09	6/19/09	6/19/09	6/19/09	7/1/09	7/1/09	7/1/09
Trt-Eval Interval	14 DAMP	14 DAMP	14 DAMP	14 DAMP	26 DAMP	26 DAMP	26 DAMP
ARM Action Codes							

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	9	10	11	12	13	14	15
29	Lumax	3.94	SE	2	qt/a	PRE	100	100	100	99	96	97	99
29	Touchdown Total	4.17	L	24	fl oz/a	MP							
29	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP							
30	Harness Xtra 5.6	5.6	L	1.5	qt/a	EP	98	100	100	95	95	99	100
30	Roundup PowerMAX	4.5	L	22	fl oz/a	EP							
30	Ammonium Sulfate	100	DF	17	lb/100 gal	EP							
31	Resolve Q			1.25	oz/a	MP	99	100	100	100	92	98	99
31	Atrazine	4	L	0.75	qt/a	MP							
31	Roundup PowerMAX	4.5	L	22	fl oz/a	MP							
31	Ammonium Sulfate	100	DF	17	lb/100 gal	MP							
32	Roundup PowerMAX	4.5	L	22	fl oz/a	MP	98	92	100	99	95	97	95
32	Status	56	DF	2.5	oz/a	MP							
32	Prowl H2O	3.8	L	2	pt/a	MP							
32	Ammonium Sulfate	100	DF	17	lb/100 gal	MP							
33	Capreno	3.45	SC	3	fl oz/a	MP	93	100	100	98	83	97	99
33	Atrazine	4	L	1	pt/a	MP							
33	Herbimax		L	1	% v/v	MP							
33	UAN 28%		L	1.5	qt/a	MP							
34	Roundup PowerMAX	4.5	L	22	fl oz/a	EP	91	99	100	98	72	78	78
34	Ammonium Sulfate	100	DF	17	lb/100 gal	EP							
34	Roundup PowerMAX	4.5	L	22	fl oz/a	MP							
34	Ammonium Sulfate	100	DF	17	lb/100 gal	MP							
35	Harness Xtra 5.6	5.6	L	1	qt/a	PRE	88	99	100	73	93	98	99
35	Yukon	67.5	WG	4	oz/a	LP							
35	Roundup PowerMAX	4.5	L	22	fl oz/a	LP							
35	Activator 90		L	0.125	% v/v	LP							
35	Ammonium Sulfate	100	DF	17	lb/100 gal	LP							
LSD (P=.05)							4.2	2.1	0.4	4.6	5.1	4.2	3.9
Standard Deviation							3.6	1.8	0.3	4.0	4.4	3.7	3.5
CV							3.97	1.87	0.34	4.35	5.14	4.1	3.74

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Weed Code	ABUTH	ANGR	CHEAL	AMARE	ABUTH	
Crop Code						ZEAMX
Rating Data Type	control	control	control	control	control	yield
Rating Unit	percent	percent	percent	percent	percent	bu/ac
Rating Date	7/1/09	8/21/09	8/21/09	8/21/09	8/21/09	11/4/09
Trt-Eval Interval	26 DAMP	77 DAMP	77 DAMP	77 DAMP	77 DAMP	HARVEST
ARM Action Codes						

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	16	17	18	19	20	21
1	Roundup PowerMAX	4.5	L	22	fl oz/a	MP	92	97	97	100	91	231
1	Status	56	DF	2.5	oz/a	MP						
1	Guardsman Max	5	L	2.5	pt/a	MP						
1	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
2	Degree Xtra	4	L	2	qt/a	PRE	88	84	76	95	91	234
2	Roundup PowerMAX	4.5	L	22	fl oz/a	MP						
2	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
3	STEADFAST Q			1.5	oz/a	MP	96	80	96	100	95	231
3	Atrazine	4	L	1	qt/a	MP						
3	Status	56	DF	2.5	oz/a	MP						
3	Herbimax		L	1	% v/v	MP						
3	Ammonium Sulfate	100	DF	2	lb/100 gal	MP						
4	Ignite 280	2.34	L	22	fl oz/a	MP	90	63	72	92	90	232
4	Ammonium Sulfate	100	DF	3	lb/100 gal	MP						
4	Ignite 280	2.34	L	22	fl oz/a	LP						
4	Ammonium Sulfate	100	DF	3	lb/100 gal	LP						
5	Parallel	7.8	EC	1.5	pt/a	PRE	85	82	70	83	79	227
5	Roundup PowerMAX	4.5	L	22	fl oz/a	MP						
5	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
6	Bicep Lite II Magnum	6	L	1.5	pt/a	PRE	90	77	80	94	85	231
6	Impact	2.8	SC	0.5	fl oz/a	MP						
6	Roundup PowerMAX	4.5	L	22	fl oz/a	MP						
6	Atrazine	4	L	1	pt/a	MP						
6	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
7	Parallel Plus	5.5	L	1.5	qt/a	PRE	89	78	69	83	85	231
7	Roundup PowerMAX	4.5	L	22	fl oz/a	MP						
7	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
8	Guardsman Max	5	L	2.5	pt/a	PRE	88	75	70	93	84	232
8	Roundup PowerMAX	4.5	L	22	fl oz/a	MP						
8	Status	56	DF	2.5	oz/a	MP						
8	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
9	Laudis	3.5	SC	3	fl oz/a	MP	99	68	97	100	100	228
9	Atrazine	4	L	1	qt/a	MP						
9	MSO		L	1	% v/v	MP						
9	UAN 28%		L	1.5	qt/a	MP						
10	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	89	74	70	91	83	233
10	Roundup PowerMAX	4.5	L	22	fl oz/a	MP						
10	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
11	SureStart	4.18	SE	1.75	pt/a	PRE	93	76	91	97	99	222
11	Durango DMA	4	L	24	fl oz/a	MP						
11	Ammonium Sulfate	100	DF	2	% w/w	MP						
12	Bicep II Magnum	5.5	L	1.1	qt/a	PRE	100	96	99	100	100	234
12	Halex GT	4.39	L	3.6	pt/a	MP						
12	Atrazine	4	L	1	pt/a	MP						
12	Activator 90		L	0.25	% v/v	MP						
12	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP						

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Weed Code						ABUTH	ANGR	CHEAL	AMARE	ABUTH		
Crop Code											ZEAMX	
Rating Data Type						control	control	control	control	control	yield	
Rating Unit						percent	percent	percent	percent	percent	bu/ac	
Rating Date						7/1/09	8/21/09	8/21/09	8/21/09	8/21/09	11/4/09	
Trt-Eval Interval						26 DAMP	77 DAMP	77 DAMP	77 DAMP	77 DAMP	HARVEST	
ARM Action Codes												
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	16	17	18	19	20	21
13	Parallel Plus	5.5	L	2.3	qt/a	PRE	92	82	74	93	89	228
13	Roundup PowerMAX	4.5	L	22	fl oz/a	MP						
13	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
14	Halex GT	4.39	L	3.6	pt/a	MP	100	96	99	100	100	232
14	Atrazine	4	L	1	pt/a	MP						
14	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP						
15	Harness Xtra 5.6	5.6	L	1	qt/a	PRE	97	76	95	99	94	230
15	Yukon	67.5	WG	4	oz/a	MP						
15	Roundup PowerMAX	4.5	L	22	fl oz/a	MP						
15	Activator 90		L	0.125	% v/v	MP						
15	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
16	Breakfree ATZ	5.25	L	2.2	qt/a	PRE	76	70	71	94	76	230
17	Atrazine	4	L	1.5	qt/a	PRE	91	76	73	88	88	227
17	Ignite 280	2.34	L	22	fl oz/a	LP						
17	Ammonium Sulfate	100	DF	3	lb/100 gal	LP						
18	Bicep Lite II Magnum	6	L	1.5	pt/a	PRE	86	79	88	94	83	234
18	Impact	2.8	SC	0.75	fl oz/a	MP						
18	Atrazine	4	L	1	pt/a	MP						
18	MSO		L	1	% v/v	MP						
18	UAN 28%		L	2.5	% v/v	MP						
19	Parallel	7.8	EC	2	pt/a	PRE	86	88	71	91	86	236
19	Roundup PowerMAX	4.5	L	22	fl oz/a	MP						
19	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
20	Guardsman Max	5	L	4	pt/a	PRE	92	84	79	94	85	213
20	Status	56	DF	5	oz/a	MP						
20	Activator 90		L	0.25	% v/v	MP						
20	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
21	SureStart	4.18	SE	2.5	pt/a	PRE	98	77	89	97	99	231
21	Keystone	5.25	L	2	pt/a	PRE						
22	Weed Free						100	100	100	100	100	238
23	Non-Treated						0	0	0	0	0	148
24	Lumax	3.94	SE	2.5	qt/a	PRE	98	75	95	97	98	229
24	Atrazine	4	L	1	qt/a	PRE						
25	Resolve	25	DF	1	oz/a	PRE	91	78	81	96	93	238
25	Atrazine	4	L	0.75	qt/a	PRE						
25	Roundup PowerMAX	4.5	L	22	fl oz/a	LP						
25	Ammonium Sulfate	100	DF	17	lb/100 gal	LP						
26	SureStart	4.18	SE	2	pt/a	EP	91	76	93	98	91	231
26	Durango DMA	4	L	24	fl oz/a	EP						
26	Ammonium Sulfate	100	DF	2	% w/w	EP						
27	Keystone	5.25	L	2.4	qt/a	PRE	97	73	93	98	98	230
27	Hornet WDG	68.5	DG	3	oz/a	PRE						
28	Harness Xtra 5.6	5.6	L	2	qt/a	PRE	95	76	95	100	98	226
28	Yukon	67.5	WG	4	oz/a	MP						
28	Herbimax		L	1	% v/v	MP						

MSU Weed Science Research Program

WEED CONTROL PROGRAMS COMPARISONS, 2009

Trial ID: C0209
 Conducted: CAMPUS

Study Dir.: Andy Chomas
 Investigator: Wesley Everman

Weed Code	ABUTH	ANGR	CHEAL	AMARE	ABUTH	
Crop Code						ZEAMX
Rating Data Type	control	control	control	control	control	yield
Rating Unit	percent	percent	percent	percent	percent	bu/ac
Rating Date	7/1/09	8/21/09	8/21/09	8/21/09	8/21/09	11/4/09
Trt-Eval Interval	26 DAMP	77 DAMP	77 DAMP	77 DAMP	77 DAMP	HARVEST
ARM Action Codes						

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	16	17	18	19	20	21
29	Lumax	3.94	SE	2	qt/a	PRE	99	86	92	100	98	236
29	Touchdown Total	4.17	L	24	fl oz/a	MP						
29	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP						
30	Harness Xtra 5.6	5.6	L	1.5	qt/a	EP	89	90	93	99	92	232
30	Roundup PowerMAX	4.5	L	22	fl oz/a	EP						
30	Ammonium Sulfate	100	DF	17	lb/100 gal	EP						
31	Resolve Q			1.25	oz/a	MP	94	80	94	100	95	235
31	Atrazine	4	L	0.75	qt/a	MP						
31	Roundup PowerMAX	4.5	L	22	fl oz/a	MP						
31	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
32	Roundup PowerMAX	4.5	L	22	fl oz/a	MP	93	79	93	90	93	232
32	Status	56	DF	2.5	oz/a	MP						
32	Prowl H2O	3.8	L	2	pt/a	MP						
32	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
33	Capreno	3.45	SC	3	fl oz/a	MP	99	72	96	99	99	236
33	Atrazine	4	L	1	pt/a	MP						
33	Herbimax		L	1	% v/v	MP						
33	UAN 28%		L	1.5	qt/a	MP						
34	Roundup PowerMAX	4.5	L	22	fl oz/a	EP	85	67	73	71	87	230
34	Ammonium Sulfate	100	DF	17	lb/100 gal	EP						
34	Roundup PowerMAX	4.5	L	22	fl oz/a	MP						
34	Ammonium Sulfate	100	DF	17	lb/100 gal	MP						
35	Harness Xtra 5.6	5.6	L	1	qt/a	PRE	98	76	92	99	100	218
35	Yukon	67.5	WG	4	oz/a	LP						
35	Roundup PowerMAX	4.5	L	22	fl oz/a	LP						
35	Activator 90		L	0.125	% v/v	LP						
35	Ammonium Sulfate	100	DF	17	lb/100 gal	LP						
LSD (P=.05)							5.4	6.1	4.3	5.4	7.3	15.1
Standard Deviation							4.7	5.3	3.8	4.7	6.4	13.2
CV							5.24	6.88	4.55	5.14	7.18	5.79